Global Climate Change Policy Tracker: An Investor's **Assessment**

Detailed Analysis of Targets by Region and Country

October 2009





Green paper available online: http://www.dbcca.com/research



Carbon Counter widget available for download at: www.Know-The-Number.com





Table of Contents

1	How to Use the Individual Policy Analysis	3
2	Analysis of Targets	
	Africa	8
	Asia	23
	Europe: European Union Member States	50
	Europe: Non-European Union Member States	144
	Latin America	161
	North America: Canada	173
	North America: United States	186
	Oceania	268
3	Bibliography	277

Organization

This analysis of 269 policies covers both emissions targets and mandated renewable, industry and sector targets. We rate the latter, while we simply collect the former and measure their abatement impact.

The targets are divided into 8 world regions. The order of the document is:

- Africa
- Asia
- Europe: EU Member States
- Europe: Non-EU Member States
- Latin America
- North America Canada
- North America United States
- Oceania

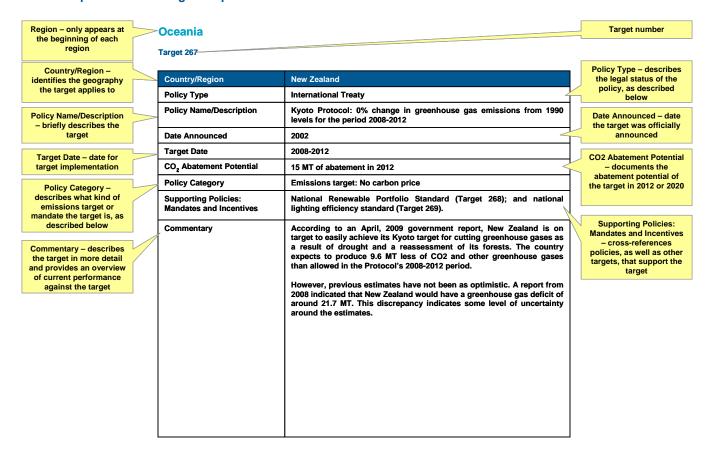
Within each macro region, targets are grouped together at the country level. Where sub-national targets are in place, these are included after national targets.

How to read the tables

Each target is described using a template. We have developed separate templates for emissions targets, which we collect, and renewable, industry and sector targets, which we rate. The template attempts to present a brief description of each target, in the style of an encyclopedia entry. While each target template references other targets, we have attempted to make each template stand alone. Therefore, for related targets, information may be repeated in multiple templates where it is relevant.

The components of each template are explained in exhibits 1 and 2.

EX 1: Sample emissions target template



EX 2: Sample renewable, industry and sector target template

Region – only appears at the beginning of each	Europe			Target number
region	Target 78			
Country/Region –	Country/Region	France		Policy Type – describe
the target applies to	Policy Type	Legislative	4	policy, as described
Policy Name/Description - briefly describes the	Policy Name/Description	EU Directive 2009/28/E0 consumption by 2020	C: 23% share of renewables in gross final energy	Date Announced – da
target	Date Announced	January, 23 rd , 2008		announced
Target Date – date for	Target Date	2020		CO2 Abatement Potent
target implementation	CO ₂ Abatement Potential	50 MT of abatement in 2	2020 <	- documents the
Policy Category –	Policy Category	Renewable Portfolio St	andard: Energy	abatement potential of the target in 2012 or 20
describes what kind of emissions target or	Related Emissions Target(s)	Target 43, Target 44, Ta	arget 45 and Target 76	
nandate the target is, as described below	Supporting Policies: Mandates and Incentives	National feed-in tariffs biofuels; national subs	; national tax credits; national capital grants for idies.	Related Emissions Target(s) – cross-
Supporting Policies:	Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	references emissions targets from the sam
Mandates and Incentives	Rationale (See exhibit 5) Lower Risk = 1; Moderate	Public Financing: 1	Integrated Plan: 1	geography
- cross-references	Risk = 2; Higher Risk = 3	Enforcement: 3	Implementation Capacity: 1	Investor Risk
targets, that support the		Monitoring: 1	Historical Achievement: 2	Assessment Rationals
go:	Overall Risk Assessment	1		provides detailed ratii
Overall Risk Assessment - provides the overall risk rating	es the overall		18, the European Commission put forward a ective on the Promotion and Use of Energy from U governments reached agreement in December, er State should increase its use of renewable ost overall EU renewable energy. France's share reach 23% renewables in gross final energy plan in place on how it expects to meet the 2020	Commentary – describ the target in more det and provides an overvi of current performance
		feed-in tariffs in the wo and modified in 2005 Advanced Renewable I @ .30 per kWh, resultin feed-in tariff category f kWh was introduced in 2012. There is also a systems and a tender s A Renewable Energy I support the productio thermal collectors. The boost hydropower arenewables. The current EU Directiv proceedings against M Dorte Fouquet, Directiva 2005	renewables include some of the most generous orld. The tariffs were introduced in 2001 and 2002 and 2006. Changes to the country's system of fariffs in 2006, raised the base tariff from €0.15 to g in many new renewable energy projects. A new for solar PV in commercial buildings of €0.45 per November, 2008. Tariffs will remain in place until 50% tax credit available for residential solar PV system for large renewable projects. Heat Fund is also due to be launched in 2010 to on of heat from geothermal, biogas and solar e French Ministry has also announced a plan to s part of the country's goal to have 23% over requires the Commission to start infringement lember States that fail to fulfil their obligations. ctor of the European Renewable Energies the lack of binding interim targets or penalty	

Policy category

Two sets of targets are analyzed in this document: Emissions targets, and mandated renewable, industry and sector targets. In the policy category box of each target template, we identify seven policy categories under these two overarching headings:

Emissions targets

- · Emissions target: No carbon price
- Emissions target: Cap-and-trade
- · Emissions target: Carbon tax

Mandated renewable, industry and sector targets

- Renewable Portfolio Standard: Energy
- · Renewable Portfolio Standard: Electricity
- · Renewable Fuel Standard
- Sector/Industry Specific Regulation

Policy type

The targets analyzed in this paper have varying legal status. We call this "policy type" in the tracker. The six policy types we identify are:

- International treaty binding treaty signed by sovereign states;
- Legislation law passed by a legislature. If a law is still under consideration, "proposed legislation" is used;
- Executive order policy issued by a president, governor or other government executive;
- Regulation obligation placed on market participants by regulatory authorities;
- Government Aspiration an official goal or strategy that has been announced by a government that has not yet been given legal authority;
- Voluntary targets with no legally binding status.

Target collection

To collect the 269 targets detailed in this paper we spent six months carrying out an exhaustive search of reliable, third-party, published sources including:

- · IEA databases:
- Government websites from environment, climate and energy departments;
- · National plans;
- · Research from Multilateral Development Banks, including the World Bank, as well as the IMF;
- · Mainstream news sources, including The New York Times, The Times, The Financial Times, The Wall Street Journal, The Guardian, The Independent, Newsweek, The Economist, Time, Business Week, and other publications;
- Climate subscription research websites, including REN21 and the IEA;
- · Research published by think tanks, such as the Center for American Progress and the Institute for Public Policy Research.

We split the target collection into 8 main regions: Africa, Asia, Europe: EU Member States, Europe: Non-EU Member States, Latin America, North America - Canada, North America - US, and Oceania, splitting targets by country and sub-dividing some main areas into the larger sub-political or geographical regions.

Targets were collected for each country within these areas in a top down approach starting with emission targets set at the international level and filtering down to renewable, industry and sector country/region targets. Although we endeavored to be as exhaustive as possible, we set as a priority the collection of emissions, renewable, industry and sector targets for major developed economies and high-income developing economies, as defined by the World Bank, as these are likely to have the greatest impact on global emission levels. While Brazil is classified as an upper-middle-income economy, and India is classified as lower-middle-income economy, their size, rapid development and potential impact on global emissions justified making sure their targets were captured as fully as possible in this document.

While we are confident in our target list, some targets for some countries may not have been captured owing to limitations of data available in the public domain. Our search was conducted for policies enacted through June, 5th, 2009. While additional targets and enabling policies may have been implemented between this date and publication of the paper, the constraints imposed by modeling emissions pathways have not allowed us to capture these.

Africa

Target 1

Country/Region	Algeria	
Policy Type	Government aspiration	
Policy Name/Description	6% of electricity from ren	ewables by 2015.
Date Announced	2006	
Target Date	2015	
CO ₂ Abatement Potential	1 MT of abatement in 20	20
Policy Category	Renewable Portfolio Star	ndard: Electricity
Related Emissions Target(s)	N/A	
Supporting Policies:	National capital grants; n	ational bonus scheme; national feed-in tariffs.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 3
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	A number of disparate plans seem to be coming together, including the Desertec proposal to generate electricity from solar power for export to Europe. However, these still need to be integrated into an overall national energy plan. Algeria has established a bonus of up to 200% of the price of electricity as set by the market operator for solar-thermal power (when used in conjunction with hybrid gas systems), waste-to-energy, and hydro. Wind power and solar thermal or PV benefit from a 300% bonus. The Algerian Electricity and Gas Regulation Commission is charged with implementation, as well as reporting annually on progress.	

Target 2

Country/Region	Algeria		
Policy Type	Government aspiration		
Policy Name/Description	Export 6,000 MW of solar to Europe by 2020		
Date Announced	March, 2008		
Target Date	2020		
CO ₂ Abatement Potential	15 MT of abatement in 20	020	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National capital grants; na	ational bonus scheme; national feed-in tariffs.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 3	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	Adrar and the German cirpower. Construction has plant, where the gas take should be completed in 2 Sahara to Europe is pla allocated to the project. The National Oil Compa Algeria, to manage the demove has attracted interestant, Siemens, ABB, E. Nordbank, M+W Zander However, at this early collaboration remains to be Africa-Investor notes that cables that are expected	3,000 kilometer cable between the Algerian town of try of Aachen to export the 6,000 MW of solar thermal calready begun on a 150 MW natural gas/solar hybrid as over entirely at night when there is no sunlight. It to 1010. Construction of the undersea cables linking the nned for 2010-2012, but funding has not yet been any of Algeria has set up a company, New Energy evelopment and exports of its solar energy. This initial test from Desertec, a consortium including Deutsche DN, RWE, Munich Re, Abengoa Solar, Cevital, HSN Holding, MAN Solar Millennium and Schott Solar. In time frame and precise structure of the one determined. In funding is yet in place for the two new undersea to link Algeria to Spain and Sicily in 2012.	
	scattered off-grid villages, with 16 more scheduled to come on-line in 2009.		

Target 3

Country/Region	Cape Verde		
Policy Type	Government aspiration		
Policy Name/Description	Greening Cape Verde: 25% renewables in national energy production by 2010		
	and 50% by 2020; achieve 100% renewable electricity on one island over the		
	same period		
Date Announced	2008		
Target Date	2020		
CO ₂ Abatement Potential	Not modeled		
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	N/A		
Supporting Policies:	Proposed national tax reb	pates; national renewable energy law.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	2		
Supporting Commentary	Greening Cape Verde wa	as introduced in 2008 with the aim to reduce reliance	
	on oil imports, free national resources to support poverty reduction and achievement of Millennium Development Goals, and raise the share of renewable energy resources in the production of power and desalinated water. Full details of the plan could not be found from a search of publicly-available information.		
	The only supporting incentive for renewable development, a 25% tax rebate, is not expected to be implemented until 2011. The next step in Cape Verde's strategy would be the implementation of a renewable energy law, but as of 2009 this has not yet occurred.		
	The Department of Industry and Energy states that the scale-up of renewables will be guaranteed by the wind farms planned for Sao Vicente, Santiago, Sal and Boa Vista which have already gone to bid and the financing for which will be guaranteed through public-private partnerships.		
	The government will repo	rt periodically on implementation of the plan.	
	Several projects are currently at the implementation stage, including a 28 MV wind farm project spread over 4 islands, one pilot project on ocean waves wit 50 KW of installed capacity, and one solar PV project with 1.5 MW of installed power capacity.		

Target 4

Country/Region	Egypt		
Policy Type	Government aspiration		
Policy Name/Description	20% of electricity from renewable sources by 2020 (including 12% wind)		
Date Announced	February, 2008		
Target Date	2020		
CO ₂ Abatement Potential	5 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Star	ndard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National power-purchase	agreements; national feed-in tariffs; Multilateral	
Mandates and Incentives	funding.		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	In February, 2008, the Supreme Council of Energy in Egypt adopted ambitious plan to cover 20% of generated electricity by renewables by 202 including 12% from wind power. As of end of February, 2009, 370 MW of wind was already connected to t grid, 180 MW was under construction, and 720 MW was in the pipeline. T Egyptian electricity sector has drafted a new electricity act to encoura renewable energy utilization and private sector investment. Proposed polici are broken into 2 phases. Phase 1 will adopt a competitive bids approach where tenders will be issued to the private sector to supply power from the tenders will be induced by guaranteel long-term power purchase. The tender documents are set to be finalized 2009 in cooperation with the World Bank. Phase 2 will see feed-in tari introduced. Egypt benefits from the \$5.2 billion Clean Technology Fund, which is multilateral fund managed by the World Bank. The Egyptian government using \$100-120 million of Clean Technology Fund money to promote renewable energy agenda. In 1986 the New & Renewable Energy Authority (NREA) was established act as the national focal point for development of renewable energence technologies. 15% of power generation came from renewables in 2005, with the variagiority of this from hydro power.		

Target 5

Country/Region	Libya		
Policy Type	Proposed government aspiration		
Policy Name/Description	10% of electric demand to come from renewable sources by 2020		
Date Announced	2007		
Target Date	2020		
CO ₂ Abatement Potential	1 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Star	ndard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	Multilateral funding.		
Mandates and Incentives			
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 3	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3	
Overall Risk Assessment	3		
Supporting Commentary	Libya has proposed a plan for growing renewable electricity to cover 10% of electricity demand by 2020. However, the Libyan Government appears to be more focused on fossil fuel projects, such as \$5 billion facility called Energy City Libya, announced in 2008, which will be built to capitalize on Libya's oil and gas reserves. In addition to developments of fossil fuel projects the country is only just starting to put in place incentives for the use and development of renewable energy. National energy policies and regulatory frameworks are needed that will help to create the necessary economic, social and institutional conditions in the energy sector to spur growth in the renewable energy sector. The share of electricity from renewables in Libya is very small. It is mainly used to electrify rural areas. According to the EIA's summer, 2009 review Libya's energy consumption mix has remained relatively constant throughout the decade, with approximately 70 percent of energy demand being met by oil and 30 percent by natural gas.		

Target 6

Country/Region	Madagascar		
Policy Type	Government aspiration		
Policy Name/Description	75% of electric power to come from renewables by 2020		
Date Announced	2008		
Target Date	2020		
CO ₂ Abatement Potential	Not modeled		
Policy Category	Renewable Portfolio Star	ndard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National tax exemptions;	Multilateral funding.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 3	
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3	
Overall Risk Assessment	3		
Supporting Commentary	In 2008, Madagascar ple	edged that by 2020, 75% of the electric energy in the	
	country would come from renewable sources, mainly hydropower. Given other		
	priorities, such as internal security concerns, there is increased delivery risk around the renewable target.		
	The government plans to exempt central equipment for the production of renewable energies from taxes. Concessions for hydropower plants up to 50MW will also be provided.		
	The Ministry of Energy and Mines is responsible for the management of the government's energy policy. Monitoring of renewable energy arrangements in the country appears to be carried out by external international agencies.		
	As of 2003, Madagascar	had virtually no renewable energy production.	

Target 7

Country/Region	Mali		
Policy Type	Government aspiration		
Policy Name/Description	15% contribution of renewable sources to the national energy assessment by		
	2020		
Date Announced	2008		
Target Date	2020		
CO ₂ Abatement Potential	Not modeled		
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	N/A		
Supporting Policies:	Multilateral funding; Tax e	exemptions	
Mandates and Incentives			
Investor Risk Assessment	Incentives:3	Sovereign Credit Risk: 3	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3	
Overall Risk Assessment	3		
Supporting Commentary	The National Water and	Energy Directorate is Mali's government institution	
	responsible for implemen	ting national policy, regulating the energy sector and	
	planning large scale ene	ergy projects. According to a World Bank report on	
	project financing in Mali, the current business and investment climate need to		
	be improved in order to enable Mali to fulfill its potential.		
	Some programs, includin	g the Domestic Energy Strategy, Solar Water Supply	
	and Street Lighting, Mu	Itifunctional Platforms, Villages' Electrification, and	
	Improved SEWA Stoves	have been initiated. These initiatives could help spur	
	investments in renewable	e energy in Mali, but they are not necessarily well	
	aligned to meet the overa	Il renewable target.	
	The Global Environment	Facility approved a \$16.41 million renewable energy	
	project in Mali in 2002. T	he project is jointly managed by the World Bank and	
	the United Nations Deve	elopment Program. Monitoring of renewable energy	
	arrangements in the cour	try appears to be carried out by external international	
	agencies.		
	Domestic energy resources in Mali consist of biomass, hydro, solar and Only biomass for household energy and hydro for electricity generation currently exploited at scale. In 2006, only 1% of energy consumption from renewables, while only 17% of the population of Mali had according to the control of the population of Mali had according to the control of the population of Mali had according to the control of the control of the population of Mali had according to the control of the c		
	electricity in 2007.		

Target 8

Country/Region	Morocco		
Policy Type	Government aspiration		
Policy Name/Description	National Program for Development of Renewable Energies and Energy		
	Efficiency on the Horizon 2012: 10% of energy consumption and 20% of		
	renewables in the electric	ity mix by 2012	
Date Announced	2007		
Target Date	2012		
CO ₂ Abatement Potential	5 MT of abatement in 201	2 and 5 MT of abatement in 2020	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National public funding; N	Nultilateral funding.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	Energy Efficiency on trenewables to 20% of the energy balance by 2012. As of 2008, a law regar commissioned by the Mothat the existing legal and of barriers on the develop. In 2008 Morocco invest building a "knowledge care government is taking stewith support from Saud contribution from the Has Morocco's electricity second Office National deshare of electricity gener ONE will still be solely electricity in Morocco. Morocco plans to install of new wind capacity was	gram for Development of Renewable Energies and the Horizon 2012 sets an objective to increase the national consumption of electricity and 10% of the ding renewable energy was in preparation. A study process a Ministry for Energy and Mines in 2008 found it institutional framework in Morocco imposes a variety of ment of renewable energy. This includes ampus for clean energy research and training. The ps to develop a \$1 billion energy development fund it is Arabia and the UAE totaling \$800 million and a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million. The ps to develop a \$1 billion energy development fund it is a san II Foundation of \$200 million.	

Target 9

Country/Region	Nigeria		
Policy Type	Government aspiration		
Policy Name/Description	Renewable Electricity Action Program: 5% of electricity from renewables by		
	2016 (excluding large hydro)		
Date Announced	December, 2006		
Target Date	2016		
CO ₂ Abatement Potential	1 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National public funding; n	ational fiscal incentives; proposed national feed-in	
Mandates and Incentives	tariffs; Multilateral funding	J.	
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	The Federal Government	of Nigeria set 10-year targets for the contribution of	
	renewable electricity in	2006. The strategy is aspirational and does not	
	actually recommend spec	ific incentives or steps for implementation.	
	The lack of appropriate	policy, regulatory and institutional frameworks is a	
	major constraint to the development of renewables in Nigeria. However, the		
	Government is now doing more to remove obstacles that hinder investments in		
	the power sector. In the energy plan, there is a strategy to promote solar		
	energy by providing adequate incentives to local manufacturers for the		
	production of solar energy systems. Fiscal incentives are also provided for the		
	installation of solar energy systems.		
	The Government has ann	ounced plans to dedicate a certain percentage of the	
	nation's income from con-	ventional energy to training, R&D, and demonstration	
	of renewable technologi	es. The World Bank and the Global Environment	
	Facility have also been fu	nding renewable projects in Nigeria.	
	The Energy Commission	in Nigeria is in charge of implementing the national	
	energy policy, and the Co	ouncil for Renewable Energy in Nigeria promotes the	
	appropriate use of renewa	able energy technology in the country.	
		came from renewables in 2008. Much of the	
	_	ligeria is limited to pilot and demonstration projects.	
		large untapped hydropower resources, this source of	
	electricity is excluded from the 2016 target.		

Target 10

Country/Region	Rwanda	
Policy Type	Government aspiration	
Policy Name/Description	90% of electricity from renewable sources by 2012	
Date Announced	2008	
Target Date	2012	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Renewable Portfolio Star	ndard: Electricity
Related Emissions Target(s)	N/A	
Supporting Policies:	Multilateral funding	
Mandates and Incentives		
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 3
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	The Government of Rwanda pledged in 2008 that by 2012, 90% of the electricity on the country would be from renewable energy sources. A detailed plan on renewable energy is being developed, and according to the Ministry of Infrastructure's 2009-2010 Action Plan, a regulatory framework on renewable energy and electricity generation will be designed and adopted by June, 2010. Rwanda's energy sector is under the responsibility of the Ministry of Energy, Water and Natural Resources and consists of a planning department, a water department, a mining department, an administrative department and an energy department composed of around 10 specialists who are organized in thematic sections. 45% of electricity generation came from renewables in 2008, mainly from hydropower, and plans are in place to build two additional hydro plants, according to the Office of the President.	
	During the last two decades Rwanda has experienced an energy crisis mostly due to lack of investment in the energy sector.	

Target 11

Country/Region	Senegal	
Policy Type	Government aspiration	
Policy Name/Description	National Strategy for Renewables: 15% share of renewable energy in the	
	energy balance by 2025	
Date Announced	2004	
Target Date	2025	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	N/A	
Supporting Policies:	National public-private pa	rtnerships; national tax exemptions; Multilateral
Mandates and Incentives	funding.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	In 2004, Senegal's Ministry of Energy and Mines unveiled the National	
	Strategy for Renewable Energy Development. The main objective of the strategy is to improve access to energy services.	
	There is the Promotion of Renewable Energy Law in place. The law, enacted in May, 1993, exempts all solar power lighting, water pump, and water heating kits from customs duties, fiscal taxes, and VAT.	
	The Ministry of Energy, Mines and Industry is responsible for policymaking in the electricity sector. The Regulatory Commission is in charge of supervising the production and distribution of electricity.	
	Senegal had a 1% share of renewables in the energy balance in 2008.	

Target 12

Country/Region	South Africa
Policy Type	Proposed legislation
Policy Name/Description	Halt emissions growth by 2020-2025; stabilize for up to 10 years; then decline
	in absolute terms.
Date Announced	July, 2008
Target Date	2020-2025
CO ₂ Abatement Potential	Not applicable in 2012 and 2020
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates	National Renewable Portfolio Standard (Target 13); national feed-in tariffs.
and Incentives	
Commentary	In July, 2008, the South African Government outlined its climate change
	vision. The plan included a substantial, quantified deviation from baseline
	emissions, enabled by international funding and technology, whereby South
	Africa's greenhouse gas emissions would peak in around 2000-2025, stabilize
	for up to 10 years, and then decline in absolute terms.
	On March 31 st , 2009, South Africa announced feed-in tariffs that guarantee a
	stable rate-of-return for renewable energy projects.
	Due to its large coal deposits, South Africa has some of the lowest electricity
	prices in the world. However, in recent years, strong economic growth, rapid
	industrialization, and a mass electrification program have led to demand for
	power outstripping supply. The recent power supply crisis has accelerated
	recognition of the need to diversify the energy mix, including sources such as
	nuclear power and natural gas, as well as various forms of renewable energy.
	According to the South Africa House of Representatives Select Committee on
	Energy Independence and Global Warming, South Africa has been leading the
	way among developing countries with its proposals for climate change action.

Target 13

Country/Region	South Africa		
Policy Type	Legislation		
Policy Name/Description	10 TWh, equivalent to 4% electricity supply, from renewables by 2013		
Date Announced	2003		
Target Date	2013		
CO ₂ Abatement Potential	1 MT of abatement in 201	12 and 10 MT of abatement in 2020	
Policy Category	Renewable Portfolio Stan	ndard: Electricity	
Related Emissions Target(s)	Target 12		
Supporting Policies:	National feed-in tariffs; na	ational tradable renewable credits; national subsidies;	
Mandates and Incentives	Multilateral funding.		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3	
Overall Risk Assessment	1		
Supporting Commentary	The South African Government set its renewable electricity target in its 2003 White Paper on Renewable Energy. On March 31 st , 2009, South Africa announced feed-in tariffs (REFIT) that guarantee a stable rate-of-return for 15 years for renewable energy projects. The feed-in tariffs announced were substantially higher than those in the National Energy Regulator's initial proposal. The tariffs are differentiated by technology and will be paid for a period of 20 years. The Department of Minerals and Energy established the Renewable Energy Finance and Subsidy Office, whose mandate includes the management of renewable energy subsidies. At the 2009 renewable energy summit in March, a recommendation was made that there is a need to strengthen the Renewable Energy Finance and Subsidy Office and other development finance institutions that fund renewable energy projects. South Africa formed a National Tradable Renewable Energy Certificate Team after a feasibility study on the certificates in 2007. The team aims to establish		
	an Issuing Body responsible for registering, issuing and redeeming certificates in South Africa. The scheme is still in development. There are several international and domestic institutions that offer financial assistance to private-sector companies that want to establish renewable energy projects. South Africa has partnered with the Global Environment Facility to provide funding and technical assistance to renewable project developers. Every year the Department of Minerals and Energy collects data on renewable energy to evaluate progress towards the goal. In August, 2009, the Department of Environmental Affairs found that currently South Africa is producing less than 1% of its electricity from renewables.		

Target 14

Country/Region	Tunisia	
Policy Type	Government aspiration	
Policy Name/Description	10% of national energy demand from renewables by 2011 and 20% reduction	
	of total demand by 2011.	
Date Announced	2008	
Target Date	2011	
CO ₂ Abatement Potential	5 MT of abatement in 20	12 and 5 MT of abatement in 2020
Policy Category	Renewable Portfolio Star	ndard: Energy
Related Emissions Target(s)	N/A	
Supporting Policies:	Multilateral funding, Publ	ic funding; Tax exemptions
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary		
	The group intends to establish a center for training, information dissemination,	

Target 15

Country/Region	Uganda	
Policy Type	Government aspiration	
Policy Name/Description	National Energy Policy: 61% of energy consumption from renewable sources	
	by 2017	
Date Announced	2007	
Target Date	2017	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Renewable Portfolio Star	ndard: Energy
Related Emissions Target(s)	N/A	
Supporting Policies:	National public financing;	Multilateral funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 2
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	Uganda has a detailed renewable energy policy in place, which aims to make modern renewable energy a substantial part of the national energy consumption. The plan sets out a number of strategies, which have been translated into concrete policy measures. There is a detailed split of how each measure will help to achieve the target. The Government has put a number of support measures in place, including: creating a Renewable Energy Department and an Energy Efficiency and Conservation Department in the Ministry of Energy and Mineral Development; promoting research and development and strengthening local manufacturing capacity in renewable energy technologies; and putting in place appropriate legislation to promote renewables.	
	The private sector is expected to finance the projects through equity and debt. The Government of Uganda, with the assistance of development partners such as the World Bank and Global Environment Facility, is providing subsidies through the Rural Electrification Fund. Currently US \$45 million has been invested. In 2008, Uganda sourced only 4% of its energy consumption from renewable sources. A large number of projects have recently been undertaken recently, including the East African Tea Trade Association's micro-hydro program and the 250 MW Bujagali hydroelectric dam on the Nile River, set to come online in 2010. The dam is the largest private-sector investment in East Africa to date.	

Asia

Target 16

Country/Region	Abu Dhabi	Abu Dhabi	
Policy Type	Government aspiration		
Policy Name/Description	7% of power should con	7% of power should come from renewable sources by 2020	
Date Announced	January, 2009		
Target Date	2020		
CO ₂ Abatement Potential	Not modeled		
Policy Category	Renewable Portfolio Sta	andard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National public funding;	national subsidies.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	Sheikh Mohammed bin Zayed Al Nahyan decreed in January, 2009, that 7% of power will come from renewable energy sources by 2020. The state-owned future energy company, Masdar, will oversee the green drive. Masdar has committed to invest \$15 billion in green energy. Abu Dhabi has already put itself forward as a possible location for the headquarters of a planned International Renewable Energy Agency being promoted by Germany. Masdar expects to mainly use solar power to reach the target, but is also exploring wind and geothermal power options. Substantial amounts of funding, central planning, and classic innovation policy have been deployed in support of the initiative. The Masdar project is expected to procure over \$1 billion by the end of 2009. There was no contribution from renewables to the national power mix in 2008.		

Target 17

Country/Region	Bangladesh	
Policy Type	Proposed legislation	
Policy Name/Description	10% of electricity from renewable sources by 2020	
Date Announced	December, 2008	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	N/A	
Supporting Policies:	National tax exemptions;	national low-interest loans; national public funding;
Mandates and Incentives	Multilateral funding.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 3
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary		

Target 18

Country/Region	China	
Policy Type	Legislation	
Policy Name/Description	11 th 5-year plan: 20% reduction in energy intensity from 2005 levels	
	(measure of GDP) betwe	en 2006 and 2010
Date Announced	2008	
Target Date	2010	
CO ₂ Abatement Potential	1395 MT of abatement in	2012 and 1905 MT of abatement in 2020
Policy Category	Emissions target: No carl	oon price
Related Emissions Target(s)		
Supporting Policies:	National Renewable Por	tfolio Standards (Target 19, Target 20 and Target
Mandates and Incentives	21); national subsidies; n	ational public funding; national tax exemptions.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	As part of the 11 th 5-year plan, The Chinese government set the target to	
	reduce energy intensity by 20% between 2006 and 2010, or 4% each year.	
	China has put in place a number of policies to support this target. The	
	Chinese aim to increase energy from renewable sources to 10% by 2010 and	
	15% by 2020. In early 2009, China passed a national stimulus bill, which	
	allocates \$147.6 billion to energy efficiency and R&D, and \$50.9 billion to	
		e, 2009, the government also announced US\$87.8
	million in subsidies to promote the use of energy-saving lighting products.	
		d in January, 2009, indicate energy intensity
	reductions of 1.8% in 2006, 3.7% in 2007 and 4.2% in 2008. According to the	
		able to continue at this pace, it will reach its 2010
	-	ave been largest in some of China's most energy-
	intensive sectors, including power generation, steel production and mining.	

Target 19

Legislation		
Legislation		
National Development and Reform Commission Plan (2007): 10% of primary		
energy from renewable s	energy from renewable sources by 2010 and 15% by 2020	
2007		
2010 and 2020		
No impact on BAU in 201	2 and 250 MT of abatement in 2020	
Renewable Portfolio Star	ndard: Energy	
Target 18		
National Renewable Port	folio Standards (Target 20 and Target 21); national	
tax exemptions; national subsidies.	public funding; national feed-in tariffs; national	
Incentives:1	Sovereign Credit Risk: 1	
Public Financing: 2	Integrated Plan: 1	
Enforcement: 1	Implementation Capacity: 1	
Monitoring: 1	Historical Achievement: 1	
1		
	2007 2010 and 2020 No impact on BAU in 201 Renewable Portfolio Star Target 18 National Renewable Port tax exemptions; national subsidies. Incentives:1 Public Financing: 2 Enforcement: 1 Monitoring: 1 A detailed plan to achiev utilizing technologically in sources, such as hydrop as by promoting the dever PV industries. In summer, 2009 Chinal including: a fixed feed-in tariffs for different classic energy-saving light bulbs building projects in pilot of tax exemptions and a government is expected of end of 2009. The tariff wo the energy they produce \$0.16 and \$0.22 per ky arrays.	

Target 20

Country/Region	China	
Policy Type	Legislation	
Policy Name/Description	National Development and Reform Commission Plan (2007): 30 GW of wind	
	generating capacity by 2020	
Date Announced	2007	
Target Date	2020	
CO ₂ Abatement Potential	85 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 18	
Supporting Policies:	National tax exemptions;	national public funding; national feed-in tariffs;
Mandates and Incentives	national subsidies	
Investor Risk Assessment	Incentives:1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary		

Target 21

Country/Region	China	China	
Policy Type	Legislation		
Policy Name/Description	20 GW of solar generating	g capacity by 2020	
Date Announced	May, 2009		
Target Date	2020		
CO ₂ Abatement Potential	55 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 18		
Supporting Policies:	National tax exemptions;	national public funding; national subsidies; proposed	
Mandates and Incentives	national feed-in tariffs.		
Investor Risk Assessment	Incentives:1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	1		
Supporting Commentary	In May, 2009, the Director at the National Development Reform Commission		
	(NDRC) Energy Research Institute announced that China would increase its		
	solar target from 1.8 GW by 2020 to 20 GW by 2020.		
	China's government offers tax exemptions for renewables and a government-		
	backed renewable energ	y fund. The government is expected to establish a	
	·	for solar by the end of 2009. The tariff would	
	guarantee solar operators above market rates for the energy they produce.		
	The solar feed-in tariff is expected to fall between \$0.16 and \$0.22 per kWh of		
	electricity produced at large scale solar PV arrays.		
	At the end of 2008, solar power capacity attached to the grid was less than		
	100 MW. China has been successful at rapidly growing other renewable		
	energy sources, such as wind power.		

Target 22

Country/Region	India	
Policy Type	Legislation	
Policy Name/Description	10% of primary energy from renewable sources by 2012	
Date Announced	2008	
Target Date	2012	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	N/A	
Supporting Policies:	National tax exemptions;	national public funding; state feed-in tariffs; national
Mandates and Incentives	preferential grid connection	on rights; Multilateral funding.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	The Report of the Working Group on New and Renewable Energy for XIth 5-Year Plan (2007-2012) established India's renewable target, but did not specifically address how it will be achieved. On June, 30 th , 2008 India released its National Action Plan on Climate Change, identifying 8 core national missions. In the 1980s, the Indian government established the Ministry of Non-Conventional Energy Sources, charged with diversifying the country's energy supply. This Ministry was renamed in 2006 as the Ministry of New and Renewable Energy (MNRE).	
	unbundling the vertically integrated electricity supply utilities in the Indian states and setting up State Regulatory Commissions (SERCs) in charge of setting electricity tariffs. The Electricity Act also required the SERCs to set Renewable Portfolio Standards. As of 2008, 10 out of 29 Indian States have implemented quotas for renewable electricity and have introduced preferential tariffs for renewable electricity. Several others have implemented fiscal incentives including an energy buy back, preferential grid connection, and electricity tax exemptions. At the federal level there are a number of measures that help drive renewable electricity development, including fiscal incentives such as income tax exemption for 10 years, 80% accelerated depreciation, sales tax exemption and excise duty exemption. In June, 2008, the MNRE announced a national generation-based scheme for grid-connected wind power projects under 49 MW, providing an incentive of €0.7 cents per kWh. Despite India deriving around 29% of its primary energy from biomass and having plans to scale-up renewable capacity, coal is expected to remain the primary energy source in the country and the Pew Center on Global Climate Change states that demand for coal will grow nearly three-fold by 2030.	

Target 23

Country/Region	India	
Policy Type	Legislation	
Policy Name/Description	4-5% of electricity from renewable sources by 2012	
Date Announced	2008	
Target Date	2012	
CO ₂ Abatement Potential	No impact on BAU in 2012 and 2020	
Policy Category	Renewable Portfolio Standard: Electricity	
Related Emissions Target(s)	N/A	
Supporting Policies:	National tax exemptions; national public funding; state feed-in tariffs; national	
Mandates and Incentives	preferential grid connection	on rights; Multilateral funding.
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	The Report of the Working Group on New and Renewable Energy for XIth 5-Year Plan (2007-2012) established India's renewable target, but did not specifically address how it will be achieved. On June, 30 th , 2008 India released its National Action Plan on Climate Change, identifying 8 core national missions. In the 1980s, the Indian government established the Ministry of Non-Conventional Energy Sources, charged with diversifying the country's energy supply. This Ministry was renamed in 2006 as the Ministry of New and Renewable Energy (MNRE).	
	unbundling the vertically integrated electricity supply utilities in the Indian states and setting up State Regulatory Commissions (SERCs) in charge of setting electricity tariffs. The Electricity Act also required the SERCs to set Renewable Portfolio Standards. As of 2008, 10 out of 29 Indian States have implemented quotas for renewable electricity and have introduced preferential tariffs for renewable electricity. Several others have implemented fiscal incentives including an energy buy back, preferential grid connection, and electricity tax exemptions. At the federal level there are a number of measures that help drive renewable electricity development, including fiscal incentives such as income tax exemption for 10 years, 80% accelerated depreciation, sales tax exemption and excise duty exemption. In June, 2008, the MNRE announced a national generation-based scheme for grid-connected wind power projects under 49 MW, providing an incentive of €0.7 cents per kWh. From 2002 to 2007 India planned to construct 3,075 MW of renewable grid-connected capacity, but the actual capacity addition exceeded 6,000 MW by 2006 with a large share of this coming from growth in the Indian wind market. Wind is expected to add more than 10,000 MW of additional capacity by 2012.	

Target 24

Country/Region	Indonesia			
Policy Type	Government aspiration			
Policy Name/Description	15-17% of primary energy to come from renewable/alternative sources by			
	2025 (5% biofuels; 5% ge	eothermal; 5% biomass, solar, wind, nuclear & hydro;		
	and 2% coal liquefaction)			
Date Announced	2006			
Target Date	2025			
CO ₂ Abatement Potential	No impact on BAU in 2012 and 2020			
Policy Category	Renewable Portfolio Standard: Energy			
Related Emissions Target(s)	N/A			
Supporting Policies:	Multilateral funding.			
Mandates and Incentives				
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 2		
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2		
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3		
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2		
Overall Risk Assessment	2			
Supporting Commentary	The development of new	and renewable energy in Indonesia is regulated by		
	Presidential Decree No 5	5/2006. This decree sets a target for the contribution		
	of new and renewable en	ergy in the 2025 national primary energy mix, at 17%		
	of total energy. The total	of total energy. The total investment needed for this development through		
	2025 is estimated to be \$13,197 million.			
		nent of new and renewable energy the Government		
		Decree No 30/2007, Law No 15/1985, Government		
	-	, and Ministerial Regulation No 002/2206. The		
		developing incentive schemes to promote the use of		
	renewable energy.			
	Financing is expected to come mainly from private sector, although there is			
	backing from international institutions, such as the World Bank and the UNDP,			
	as well as bilateral support from the Netherlands and Denmark.			
	4507 6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	4.5% of national primary energy came from renewables in 2009, mainly from			
	geothermal and hydro sources. As of November, 2008, there was over 5 MW			
	of grid-connected renewable electricity commissioned and over 86 MW being			
	built. Hydro power is still the largest contributor of renewable resources in the			
	primary energy mix, although the government is actively pursuing wind energy. A new wind map survey has recently been commissioned for Indonesia to			
	facilitate the development of the wind industry.			

Target 25

Country/Region	Japan	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 6% reduction in greenhouse gas emissions below 1990 levels	
	for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	160 MT of abatement in 2012	
Policy Category	Emissions target: Proposed cap-and-trade	
Supporting Policies: Mandates	National emissions targets (Target 26 and Target 27); national Renewable	
and Incentives	Portfolio Standards (Target 28, Target 30 and Target 31); national fuel economy standard (Target 29).	
Commentary	Japan ratified the Kyoto Protocol in 2002.	
	According to the UN, Japan is lagging in meeting its Kyoto target. Japan was 8% above 1990 greenhouse gas levels in 2003. In 2008, Japan saw its emissions rise 2.4%.	
	The government hopes to reduce emissions and meet its Kyoto obligation in two ways: domestic forest conservation and international offsets; and voluntary pledges on emissions cuts by major industry sectors, including electricity generation and steel makers.	
	Over the last 2 years, Japan has talked with eastern and central European countries about buying emission credits to help it meet its target under Kyoto. In March, 2009, Japan secured a deal to buy emissions rights from the Ukraine, which will deliver 30 MT of Assigned Amount Units. Japan has pledged to buy 100 MT in carbon offsets from abroad during 2008-2012.	
	Early in 2009, Japan's government unveiled an economic stimulus equivalent to 3.1% of GDP aimed at promoting energy-efficient products and renewable energy. However the stimulus has been criticized for failing to address factory emissions – the country's main source of greenhouse gas emissions.	
	Japan implemented a trial voluntary cap-and-trade scheme in 2008. The new Government has announced its intention of introducing a compulsory cap-and-trade system for emissions as early as 2012, although this would be too late to enable compliance with the Kyoto target.	
	Japan's emissions rose to a record 1.37 GT in the year to March, 2008.	

Target 26

Country/Region	Japan	
Policy Type	Government aspiration	
Policy Name/Description	Action Plan for Achieving a Low Carbon Society: 60-80% cut in greenhouse	
	gas emissions from current levels by 2050	
Date Announced	June, 9 th , 2008	
Target Date	2050	
CO ₂ Abatement Potential	200 MT of abatement in 2020	
Policy Category	Emissions target: Voluntary cap-and-trade (Proposed mandatory scheme)	
Supporting Policies: Mandates	National emissions target (Target 27); national Renewable Portfolio Standards	
and Incentives	(Target 28, Target 30 and Target 31); national fuel economy standard (Target	
	29).	
Commentary	On June, 9 th , 2008, then-Prime Minister Yasuo Fukuda released Japan Low-	
	Carbon Society (LCS). The plan contained a long-term goal to reduce	
	emissions by 60-80% by 2050 from 2005 levels. An interim 15% reduction	
	target by 2020 was announced in June, 2009.	
	Some of the key objectives of the plan are to: encourage the development of	
	major innovative technologies and the dissemination of existing advanced	
	technologies in order to move toward a low-carbon society; promote the	
	development of clean combustion technology and carbon capture and storage;	
	become a world leader in solar generation; raise the proportion of zero-	
	emission energy sources to over 50%; and introduce next-generation vehicles.	
	langua implementada kijal yakustanya ang and tanda ask ang in 2000. The navy	
	Japan implemented a trial voluntary cap-and-trade scheme in 2008. The new	
	Government has announced its intention of introducing a compulsory cap-and-	
	trade scheme for emissions as early as 2012, although this would be too late	
	to enable compliance with the Kyoto Protocol target.	
	Japan is currently struggling to most its Kyota amissions target. The sountry's	
	Japan is currently struggling to meet its Kyoto emissions target. The country's	
	emissions rose to a record 1.37 GT in the year to March, 2008.	

Target 27

Country/Region	Japan	
Policy Type	Voluntary	
Policy Name/Description	The electric power sector will reduce emissions to 73% of 2008-2009 levels by	
	the business year 2020-2021	
Date Announced	April, 2009	
Target Date	2020-2021	
CO ₂ Abatement Potential	No impact on BAU in 2012 and 0 MT of abatement in 2020	
Policy Category	Sector/Industry Specific Regulation	
Supporting Policies: Mandates and Incentives	National Renewable Portfolio Standards (Target 28, Target 30 and Target 31); national fuel economy standard (Target 29).	
Commentary	In April, 2009, Japan's electric power sector voluntarily pledged to the government that it would cut emissions to 73% of 2008-2009 levels by 2020-2021. Through the year starting April, 2020, the sector will aim to lower CO ₂ emissions to around 0.33kg per kWh through planned development of new nuclear reactors and advanced combined cycle thermal power generation units.	
	Some of the key objectives of Japan's plan to decarbonizes are to: encourage the development of major innovative technologies and the dissemination of existing advanced technologies in order to move toward a low-carbon society; promote the development of clean combustion technology and carbon capture and storage; become a world leader in solar generation; and raise the proportion of zero-emission energy sources to over 50%.	
	Japan implemented a trial voluntary cap-and-trade scheme in 2008. The new Government has announced an intention of introducing a compulsory cap-and-trade scheme as early as 2012, although this would be too late to enable compliance with the Kyoto target.	
	The power sector's emissions were reported to be around 0.45kg per kWh in the 2008-2009 business year, according to the Federation of Power Companies of Japan.	

Target 28

Country/Region	Japan	
Policy Type	Legislation	
Policy Name/Description	3% of total primary energy from renewable sources by 2010	
Date Announced	2007	
Target Date	2010	
CO ₂ Abatement Potential	No impact on BAU in 2012 and 2020	
Policy Category	Renewable Portfolio Standard: Energy	
Related Emissions Target(s)	Target 25, Target 26 and	Target 27
Supporting Policies:	National feed-in tariffs; national subsidies; national public funding.	
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	In 1998, Japan initiated the Promotion for the Local Introduction of New Energy, which offers subsidies to renewable energy projects through the New Energy Development Organization. In February, 2009, the Government announced a net model feed-in tariff scheme, where owners of grid connected solar power systems will be paid a premium rate for surplus electricity. The budget allocation by the Japanese government for promoting introduction of new energy has increased annually. The Ministry of Economy, Trade and Industry is in charge of promoting new energy introduction. Japan announced a stimulus plan in April, 2009, that provides \$11 billion for energy efficiency and development of clean technology.	
	According to the International Energy Agency, renewables made up over 3% of total energy supply in Japan in 2007.	

Target 29

Country/Region	Japan	
Policy Type	Legislation	
Policy Name/Description	39.5 mpg fuel efficiency standard by 2015	
Date Announced	February, 2007	
Target Date	2015	
CO ₂ Abatement Potential	1 MT of abatement in 2012 and 1 MT of abatement in 2020	
Policy Category	Sector/Industry Specific Regulation	
Related Emissions Target(s)	Target 25, Target 26 and Target 27	
Supporting Policies:	National tax exemptions;	national public funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	1	
Supporting Commentary	The Japanese government established fuel-economy standards for passenger cars of 39.5 miles per gallon, to be reached by 2015. This translates to CO ₂ emissions of 125 grams per kilometer according to the ICCT. A very detailed technical fuel efficiency plan is in place. Japan hopes that by 2020, one in every two car sales will be a next generation vehicle (including hybrids, electric vehicles, plug-in hybrids, and fuel-cell vehicles). The plan notes that green taxation and other efforts have spurred manufacturers to meet tougher fuel standards. Compliance items are clearly defined, and must be listed in the vehicle owner's manual. Toyota says that the Prius has already met the 2015 standard. The average fuel economy of cars manufactured in Japan rose from 12.4 kilometers per liter in 1996 to 15.5 kilometers per liter (36.5 miles per gallon) in 2006. In 2005, 86% of passenger cars sold met or surpassed the 2010 fuel efficiency	

Target 30

Country/Region	Japan	
Policy Type	Legislation	
Policy Name/Description	Increase solar power by 55 times by 2030	
Date Announced	May, 2009	
Target Date	2030	
CO ₂ Abatement Potential	165 MT of abatement in 2	2020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 25, Target 26 and	Target 27
Supporting Policies:	National tax exemptions.	
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	power generation costs to \$0.07 per kWh. It aims to solar energy output to 75 This increases the origina 2030, as set out in Japan July, 2008. The government plans to as an example for the resis being developed that years. The government financial support, and purpower. In February, 2009, the scheme where owners or premium rate for surplus stimulus plan in April, 200	inistry of Environment set a goal to drive down solar of current retail electricity cost levels, which are about a achieve this through mass production, raising total 2,000 MW – 55 times the current output – by 2030. All target of an increase in solar energy by 40 times by its Action Plan for Achieving a Low-Carbon Society in increase the use of solar power in the public sector at of the economy. A system of fixed price purchasing would guarantee recovery of investment over 10 is also engaged in technological development, ablic awareness activities to spread the use of solar government announced a net model feed-in tariff of grid-connected solar power systems will be paid a selectricity. Japan's Government also announced a 109, that provides \$11 billion for energy efficiency and the hologies including solar power.

Target 31

Country/Region	Japan		
Policy Type	Government aspiration		
Policy Name/Description	National Wind Power Tar	National Wind Power Target: 3,000 MW wind power by 2010	
Date Announced	2005		
Target Date	2010		
CO ₂ Abatement Potential	10 MT of abatement in 20	012 and 10 MT of abatement in 2020	
Policy Category	Renewable Portfolio Star	ndard: Electricity	
Related Emissions Target(s)	Target 25, Target 26 and	Target 27	
Supporting Policies:	National capital grants.		
Mandates and Incentives			
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	Renewable policy is cap and the Promotion for the Development of wind introduction of a numb purchase agreements in years, which helps to ensure Toshio Hori, president of Japan's renewable-ener Global Wind Energy Coexperienced a slowdown system, grid constraints, turbines in Japan has led		

Target 32

Country/Region	Jordan	
Policy Type	Government aspiration	
Policy Name/Description	7% of primary energy from	m renewable sources by 2015; 10% by 2020
Date Announced	2008	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	N/A	
Supporting Policies:	Tax exemptions; public fu	ınding; Renewable Energy Promotion Law
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	1	
Supporting Commentary	Jordan's renewable strate	egy is very detailed, and includes an implementation
	plans for renewable energy projects, a renewable energy promotion law that	
	provide for incentives and exemption of all renewable energy equipment from	
	taxes, and a Renewable Energy and Energy Efficiency Fund (JREEF) to	
	support renewable energy and energy efficiency programs/projects.	
	Financing for the projects will be arranged through private developers.	
	International funding in the form of grants and soft loans will be arranged	
	through Government ministries.	
	1% of primary energy came from renewables in 2008. Jordan is expected to	
	achieve part of the National Energy Strategy ahead of schedule, moving it	
	-	gional leader in renewables, according to a senior
	Jordanian energy official.	

Target 33

Malaysia	
Legislation	
Fuel Diversification Policy	r: 5% of electricity generation from renewable
sources by 2005; 10% by 2010	
2001	
2010	
5 MT of abatement in 201	2 and 5 MT of abatement in 2020
Renewable Portfolio Stan	dard: Electricity
N/A	
National tax credits; natio	nal Small Renewable Energy Program; national
Renewable Energy Powe	r Purchase Agreement.
Incentives: 1	Sovereign Credit Risk: 1
Public Financing: 1	Integrated Plan: 1
Enforcement: 2	Implementation Capacity: 1
Monitoring: 1	Historical Achievement: 1
1	
Diversification Policy, 20 renewable energy was a supply mix. Following the initiatives for renewable energy was a supply mix. Following the initiatives for renewable energy was a supply mix. Following the Fuel Diversification produces and the Fuel Diversification produced investment tax allowances support grid connection for Other supporting policies. Agreement (REPPA), while power purchases between the REPPA, renewable energy the REPPA, renewable energy the independent power produced generating. Certified Emmander Mechanisms also supports	ion plan is in place under the country's Fuel 201. Under the Eighth Malaysia Plan 2001-2005, dded as part of a Five Fuel Strategy in the energy is, the Ninth Malaysia Plan 2006-2010 strengthens nergy to meet 10% of electricity demand by 2010. Olicy has been reinforced by fiscal incentives such as and the Small Renewable Energy Program, which or small renewable power generation plants. Is include the Renewable Energy Power Purchase this a Malaysian government regulation dealing with the power utility TNB and private investors. Under dectricity producers are given a license for a period of of commissioning of the plant. REPPA also allows ucers to sell electricity to the grid. Revenues from issions Reductions under the Clean Development is renewables in Malaysia.
	Fuel Diversification Policy sources by 2005; 10% by 2001 2010 5 MT of abatement in 201 Renewable Portfolio Stan N/A National tax credits; natio Renewable Energy Powe Incentives: 1 Public Financing: 1 Enforcement: 2 Monitoring: 1 A detailed implementat Diversification Policy, 20 renewable energy was a supply mix. Following th initiatives for renewable e The Fuel Diversification p investment tax allowance support grid connection for Other supporting policies Agreement (REPPA), whi power purchases betwee the REPPA, renewable el 21 years from the date independent power prod generating Certified Emi Mechanisms also support

Target 34

Country/Region	Pakistan	
Policy Type	Government aspiration	
Policy Name/Description	10% of national primary energy from renewable sources (including hydro) by	
	2015; 20% by 2020	
Date Announced	2007	
Target Date	2015 and 2020	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	N/A	
Supporting Policies:	National public funding; n	ational tax exemptions; multilateral funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 2
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	Some measures are bei	ng developed to support achievement of Pakistan's
	renewable target, but as of yet, there appears to be little in place. Given other	
	priorities, such as internal security concerns, there is increased delivery risk around the renewable target.	
	around the renewable tal	goti
	The Government of Pakistan has committed funds for 5,000 solar homes and	
	over 2 MW of wind energy. Additional assistance from the UNDP and GEF has	
	been sought for joint projects. Tax exemptions on renewable power have been	
	introduced.	
	D-t	0000 - total of 110 the falling in
	Between 2007 and February, 2009, a total of US \$2.5 billion in renewable investment occurred.	
	0% of power came from r	enewables in 2005.

Target 35

Country/Region	Philippines	
Policy Type	Government aspiration	
Policy Name/Description	Increase renewable energy capacity by 100% by 2013; have 9 GW of	
	renewable capacity by 20	20
Date Announced	2001	
Target Date	2013 and 2020	
CO₂ Abatement Potential	20 MT of abatement in 20	112 and 30 MT of abatement in 2020
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	N/A	
Supporting Policies:	National feed-in tariffs; na	tional tax exemptions; national net metering;
Mandates and Incentives	multilateral funding.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 2
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary		ns and tools in support of renewables are in place in not integrated in an overarching plan to achieve the
	Feed-in tariffs are in place for wind, solar, ocean, run-of-river hydro and biomass. A variety of tax incentives are also available, including income tax holidays, duty-free importation of renewable equipment, special property and corporate tax rates, customs waivers, and zero VAT. End users are also offered net-metering and green energy options.	
	The Asian Development bank promised the Philippines \$2 billion in June, 2009 for renewable programs.	
	The Department of Energy, through the Energy Utilization Management Bureau will supervise the implementation of the program. It is unclear how frequently progress is monitored.	
	About one-third of the Phi	lippines' energy mix is renewable energy.

Target 36

Country/Region	Philippines	
Policy Type	Government aspiration	
Policy Name/Description	Phase out incandescent I	ight bulbs by January, 2010
Date Announced	February, 2008	
Target Date	2010	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 1 MT of abatement in 2020
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	N/A	
Supporting Policies:	Multilateral funding.	
Mandates and Incentives		
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 2
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	In February, 2008, Philippines President Gloria Arroyo announced that the country will phase out incandescent bulbs by 2010, making it the first plan of its kind in Asia.	
	There is no publicly-available detailed implementation plan. Details of supporting policies are not extensive. The Asian Development Bank (ADB) will fund an energy-efficient project in the Philippines that will distribute 13 million energy saving lights to homeowners as part of the Government's push to cut fuel bills and phase out incandescent bulbs. The ADB is also considering extending a \$30 million loan to the country to help fund energy efficiency schemes.	

Target 37

Country/Region	South Korea	
Policy Type	Legislation	
Policy Name/Description	5% of electricity consumption from renewable sources by 2011	
Date Announced	2007	
Target Date	2011	
CO ₂ Abatement Potential	30 MT of abatement in 20	112 and 65 MT of abatement in 2020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	N/A	
Supporting Policies:	National feed-in tariffs; na	tional public funding; national subsidies.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	In 2007, South Korea set a goal to have solar, wind and tidal power provide	
	In 2007, South Korea set a goal to have solar, wind and tidal power provide 5% of total power generation by 2011. In January, 2009 South Korea announced the launch of its \$38.1 billion Green New Deal. The Green New Deal will focus on pollution control, energy efficiency and clean technologies. Under the plans, \$3.32 billion will be spent on clean energy infrastructure technology products and constructing low-carbon transportation systems. An additional \$6.64 billion would be allocated for research and development of higher efficiency and non-silicon-based solar cells, electric vehicles, highly efficient LEDs, smart metering and rechargeable batteries. Feed-in tariffs were adopted in South Korea for solar PV in 2006. The tariffs distinguish between systems >30 kWp and systems <30 kWp. Feed-in rates are generous, according to Renewable Energy World. The result of these tariffs has been a huge growth in solar demand. Korea uses incentives and subsidies to compensate for the difference	
		and the system marginal price for each new and
	renewable energy source	

Target 38

Country/Region	South Korea		
Policy Type	Legislation		
Policy Name/Description	11% of energy consumption from renewable sources by 2030		
Date Announced	2007		
Target Date	2030		
CO ₂ Abatement Potential	Modeled as part of Targe	t 37	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	N/A		
Supporting Policies:	National feed-in tariffs; na	tional public funding; national subsidies.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	In 2008, South Korea se	In 2008, South Korea set a target of sourcing 11% of energy consumption	
	from renewables by 2030		
	In January, 2009 South Korea announced the launch of its \$38.1 billion Green		
	New Deal. The Green New Deal will focus on pollution control, energy efficiency and clean technologies. Under the plans, \$3.32 billion will be spent on clean energy infrastructure technology products and constructing low-carbon transportation systems. An additional \$6.64 billion would be allocated for research and development of higher efficiency and non-silicon-based solar cells, electric vehicles, highly efficient LEDs, smart metering and rechargeable batteries.		
	Feed-in tariffs were adopted in South Korea for solar PV in 2006. The tariffs distinguish between systems >30 kWp and systems <30 kWp. Feed-in rates are generous, according to Renewable Energy World. The result of these tariffs has been a huge growth in solar demand.		
		and subsidies to compensate for the difference and the system marginal price for each new and	
	renewable energy source		

Target 39

Country/Region	South Korea	
Policy Type	Legislation	
Policy Name/Description	Reach average fleet fuel efficiency of 40 mpg by 2015	
Date Announced	2009	
Target Date	2015	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Sector/Industry Specific I	Regulation
Related Emissions Target(s)	N/A	
Supporting Policies: Mandates and Incentives	National tax exemptions;	national public funding.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 1
Overall Risk Assessment	1	Thistorical Achievement.
Supporting Commentary	In 2009, South Korea announced a target to increase average fleet fuel efficiency to 40 mpg by 2015. To promote the use of compact cars, the government offers reduced or waived vehicle tax and discounts on expressway tolls, public parking and other driving facilities. In January, 2009 South Korea announced the launch of its \$38.1 billion Green New Deal. The Green New Deal will focus on pollution control, energy efficiency and clean technologies. Under the plans, \$3.32 billion will be spent on clean energy infrastructure technology products and constructing low-carbon transportation systems. An additional \$6.64 billion would be allocated for research and development of higher efficiency and non-silicon-based solar cells, electric vehicles, highly efficient LEDs, smart metering and rechargeable batteries. New passenger cars sold within the country in 2008 ran an average of 11.47 kilometers per liter of fuel (27 mpg US, 8.7 L/100km)—up from 11.04 km/L (26	

Target 40

Country/Region	Taiwan	
Policy Type	Voluntary	
Policy Name/Description	Sustainable Energy Policy: Reduce emissions to 2008 levels between 2016	
	and 2020 and to 2000 levels by 2025	
Date Announced	2008	
Target Date	2020 and 2025	
CO ₂ Abatement Potential	80 MT of abatement in 2020	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	National emissions targets (Target 41); national Renewable Portfolio Standard	
and Incentives	(Target 42); national Renewable Energy Development Act.	
Commentary	Taiwan is under no formal obligation to reduce emissions under the Kyoto	
	Protocol. This target is acknowledged as being ambitious by the Taiwanese	
	President, but he states that unless such targets are set, then no action will	
	take place.	
	Taiwan has put legislation supportive of this target in place. The Taiwanese legislature passed the Renewable Energy Development Act on June, 12 th , 2009, with specific policies each for the industrial, transportation, residential, and commercial sectors. According to Tsai Chin-yao, Chairman of the Photovoltaic Committee and Chairman and Chief Executive Officer of Auria Solar Co. Ltd., the Renewable Energy Development Act will attract investment of at least \$914 million per year.	
	According to US Department of Energy data, Taiwan released 300 MT tons of ${\rm CO_2}$ in 2006, up 3% from the previous year and 19% above 2000 levels.	

Target 41

Country/Region	Taiwan
Policy Type	Voluntary
Policy Name/Description	Sustainable Energy Policy: Decrease energy intensity by 20% over 2005
	levels by 2015 and 50% by 2025
Date Announced	2008
Target Date	2015 and 2025
CO ₂ Abatement Potential	75 MT of abatement in 2020
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates	National emissions targets (Target 41); national Renewable Portfolio Standard
and Incentives	(Target 42); national Renewable Energy Development Act.
Commentary	Taiwan is under no formal obligation to reduce emissions under the Kyoto
	Protocol. This target is acknowledged as being ambitious by the Taiwanese
	President, but he states that unless such targets are set, then no action will
	take place.
	Taiwan has put legislation supportive of this target in place. The Taiwanese legislature passed the Renewable Energy Development Act on June, 12 th , 2009, with specific policies each for the industrial, transportation, residential, and commercial sectors. According to Tsai Chin-yao, Chairman of the Photovoltaic Committee and Chairman and Chief Executive Officer of Auria Solar Co. Ltd., the Renewable Energy Development Act will attract investment of at least \$914 million per year.
	According to US Department of Energy data, Taiwan released 300 MT tons of CO ₂ in 2006, up 3% from the previous year and 19% above 2000 levels. The Energy Information Administration notes that energy intensity levels in Taiwan tend to be relatively high due primarily to the country's heavy concentration of energy-intensive manufacturing industries.

Target 42

Country/Region	Taiwan	
Policy Type	Legislation	
Policy Name/Description	Renewable Energy Development Act: 10% of electricity from renewable	
	sources by 2010.	
Date Announced	June, 2008	
Target Date	2010	
CO ₂ Abatement Potential	15 MT of abatement in 20	012 and 20 MT of abatement in 2020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 40 and Target 41	
Supporting Policies:	National public funding; n	ational subsidies
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	The Renewable Energy Development Act follows the Framework of Taiwan's	
	Sustainable Energy Policy, which is a robust and detailed plan.	
	The new law authorizes the government to provide a variety of incentives for	
	the development of renewable energy, including creating an acquisition	
	mechanism, providing incentives for demonstration projects, and loosening	
	regulatory restrictions. According to Tsai Chin-yao, chairman and chief	
	executive officer of Auria Solar Co. Ltd., the Renewable Energy Development	
	Act will attract investment of at least TWD 30 billion (\$906 million). Subsidies	
	for the use of renewable energy will be provided from the Petroleum Fund and	
	Agricultural Development Fund.	
	0.470/ /	, II : 0005
	6.17% of power generation came from renewables in 2005.	

Europe

European Union Member States

Target 43

Country/Region	European Union (EU-15)		
Policy Type	International treaty		
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels		
	for the period 2008-2012		
Date Announced	1997		
Target Date	2008-2012		
CO ₂ Abatement Potential	90 MT of hot air in 2012		
Policy Category	Emissions target: Cap-and-Trade		
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU		
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target		
	46), EU power sector standard (Target 47), EU aviation sector target standard		
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting		
	standard (Target 54); National emissions targets (Target 55, Target 58, Target		
	68, Target 73, Target 76, Target 80, Target 81, Target 87, Target 92, Target		
	96, Target 103, Target 106, Target 111, Target 119, Target 123, Target 124,		
	Target 125, Target 127, Target 128 and Target 134); national Renewable		
	Portfolio Standards (Target 56, Target 57, Target 59, Target 60, Target 69,		
	Target 70, Target 74, Target 75, Target 77, Target 78, Target 82, Target 83,		
	Target 84, Target 85, Target 88, Target 89, Target 93, Target 94, Target 97,		
	Target 104, Target 107, Target 108, Target 112, Target 120, Target 121,		
	Target 122, Target 126, Target 129, Target 130, Target 131, Target 135 and		
	Target 136); national biofuel standard (Target 95); national lighting efficiency		
	standards (Target 79 and Target 133); national energy efficiency standard		
Commentant	(Target 86); national smart meter standard (Target 132); EU-ETS. The EU-15 has a Kyoto target to cut greenhouse gas emissions by 8% from		
Commentary			
	1990 base-year levels by 2012. Within this overall target, each EU-15 member state has a differentiated reduction target; some should reduce emissions		
	while others are allowed a limited increase. Member States that joined the		
	European Union since it ratified the Kyoto Protocol in 2002 have individual		
	targets, except for Cyprus and Malta, which have no targets.		
	talgoto, except for eypras and mana, which have no talgets.		
	According to projections by the European Environment Agency, the EU-15		
	should comfortably reach their collective Kyoto target by 2012 – but only if		
	those Member States who are overachieving towards meeting their targets		
	cover for Member States who are underachieving. Austria, Denmark, Finland,		
	Ireland, Italy, Portugal, and Spain look extremely unlikely to reach their		
	targets, while the UK, Germany, and France have already hit their Kyoto		
	targets.		
	The EU cut emissions of greenhouse gases by 1.2% in 2007.		
<u> </u>			

Target 44

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	Energy and Climate Change Package (2008): 20% reduction in greenhouse	
	gas emissions from 1990 levels by 2020; 30% reduction if an international	
	agreement is reached	
Date Announced	December, 2008	
Target Date	2020	
CO ₂ Abatement Potential	295 MT of abatement in 2020	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); vehicle efficiency standard (Target 46),	
	EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); National emissions targets: (Target 55, Target 58,	
	Target 61, Target 64, Target 68, Target 71, Target 73, Target 76, Target 80,	
	Target 81, Target 87, Target 90, Target 92, Target 96, Target 98, target 100,	
	Target 103, Target 106, Target 109, Target 111, Target 113, Target 115,	
	Target 117, Target 119, Target 123, Target 124, Target 125, Target 127,	
	Target 128 and Target 134); national Renewable Portfolio Standards: (Target	
	56, Target 57, Target 59, Target 60, Target 62, Target 63, Target 65, Target	
	66, Target 67, Target 69, Target 70, Target 72, Target 74, Target 75, Target	
	77, Target 78, Target 82, Target 83, Target 84, Target 85, Target 88, Target	
	89, Target 91, Target 93, Target 94, Target 97, Target 99, Target 101, Target	
	102, Target 104, Target 107, Target 108, Target 110, Target 112, Target 114,	
	Target 116, Target 118, Target 120, Target 121, Target 122, Target 126,	
	Target 129, Target 130, Target 131, Target 135 and Target 136); national	
	biofuel standard (Target 95); national lighting efficiency standards (Target 79	
	and Target 133); national energy efficiency standard (Target 86); national	
0	smart meter standard (Target 132); EU-ETS.	
Commentary	The Climate Action and Renewable Energy Package sets out the contribution	
	expected from each Member State to overall EU emissions reduction goals,	
	and proposes measures to help achieve them. Central to the strategy is strengthening and expanding the EU Emissions Trading Scheme (EU-ETS).	
	Following lobbying from industry-heavy Member States, a series of	
	compromises may make it a less effective tool to reduce the bloc's emissions.	
	Compromises may make it a less effective tool to reduce the bloc's emissions.	
	This target relies on Member State implementation. Monitoring is carried out	
	by the European Commission and the European Environment Agency.	
	by the European Commission and the European Environment Agency.	

Target 45

European Union		
Legislation		
Energy and Climate Change Package (2008): 10% reduction in greenhouse gas emissions from non-EU Emissions Trading Scheme (EU-ETS) sectors between 2013 and 2020		
December, 2008		
2013 and 2020		
Not modeled		
Emissions target: Cap-and-Trade		
EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU energy efficiency standard (Target 53); vehicle efficiency standard (Target 46),		
EU power sector standard (Target 47), EU aviation sector target standard (Target 48), EU fuel chain emissions standard (Target 49) and EU lighting standard (Target 54); National emissions targets: (Target 55, Target 58, Target 61, Target 64, Target 68, Target 71, Target 73, Target 76, Target 80, Target 81, Target 87, Target 90, Target 92, Target 96, Target 98, target 100, Target 103, Target 106, Target 109, Target 111, Target 113, Target 115, Target 117, Target 119, Target 123, Target 124, Target 125, Target 127, Target 128 and Target 134); national Renewable Portfolio Standards: (Target 56, Target 57, Target 59, Target 60, Target 62, Target 63, Target 65, Target 66, Target 67, Target 69, Target 70, Target 72, Target 74, Target 75, Target 77, Target 78, Target 82, Target 83, Target 84, Target 85, Target 88, Target 89, Target 91, Target 93, Target 94, Target 97, Target 99, Target 101, Target 102, Target 104, Target 107, Target 108, Target 110, Target 112, Target 114, Target 116, Target 118, Target 120, Target 121, Target 122, Target 126, Target 129, Target 130, Target 131, Target 135 and Target 136); national biofuel standard (Target 95); national lighting efficiency standards (Target 79 and Target 133); national energy efficiency standard (Target 86); national smart meter standard (Target 132); EU-ETS.		
The EU Climate and Energy Package requires a 10% reduction in emissions from non-EU ETS sectors between 2013 and 2020. In sectors that do not come into the EU-ETS responsibility falls on individual governments to lower emissions. EU-wide measures that may help Member States reduce emissions include		
new efficiency standards for boilers and water heaters, and improved labeling systems. The Landfill Directive will further reduce emissions and Member states can also use credits from the Kyoto Protocol mechanisms. The Commission set national targets according to countries' Gross Domestic Product (GDP). Richer countries are asked to make bigger cuts, while lower GDP states will be entitled to increase emissions from these sectors in order to take into account their high projected GDP growth.		

Target 46

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	EU Energy and Climate Package – Low Carbon Fuel Standard: CO ₂	
	emissions from new cars are limited to 120g CO ₂ /km for 65% of new fleet in	
	2012; 75% in 2013; 80%	in 2014; and 100% in 2015.
Date Announced	December, 2008	
Target Date	2012, 2013, 2014 and 20	15
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 43, Target 44 and	Target 45
Supporting Policies:	EU Green Car Fund; EU	Renewable Fuel Standard (Target 52); EU incentives
Mandates and Incentives	for the car industry to inve	est in new technologies; national biofuels standard
	(Target 95).	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	The European Commission approved the vehicle standards as part of the Energy and Climate Package. The EU Climate and Energy Package was formally adopted in April, 2009, and entered into force in May, 2009. The European Commission had initially proposed introducing the caps on 100% of new cars sold in the region from 2012, however a compromise was reached that phased in the target over time: • CO₂ emissions from new vehicles will be gradually reduced starting with 65% of the new fleet in 2012 rather than 100%. • Fines against carmakers for non-compliance were reduced to a €5 fine for the first extra gram of CO₂ above target, €15 for the second, €25 for the third, and €95 for the fourth gram onwards. There is some funding in place to support clean car initiatives in the EU, including a Green Cars Fund with at least €5 billion of funding and a "factories of the future" initiative estimated at €1.2 billion. Member States are responsible for implementation.	
	Despite the dilution of penalties for non-compliance in the short-term, there are still robust fines in place for non-compliance in the longer term. There is also a good track record in meeting vehicle emission standards in the EU.	

Target 47

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	EU Energy and Climate Package: Power plants over 300MW must not emit	
	over 500 grams of CO ₂ /k	Wh from 2015.
Date Announced	October, 2008	
Target Date	2015	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Sector/Industry Specific R	Regulation
Related Emissions Target(s)	Target 43, Target 44 and	Target 45
Supporting Policies:	EU and national funding f	or Carbon Capture and Storage R&D.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	In October, 2008, the European Parliament voted in favor of an emissions	
	performance standard for new power plants constructed in the European	
	Union in accordance with the Directive on Geological Storage of Carbon	
	Dioxide. The EU Climate and Energy Package was formally adopted in April,	
	2009, and entered into force in May, 2009.	
	The EU and a number of Member States are providing funding for Carbon	
	Capture and Storage (CCS) R&D, and are requiring demonstration of the	
	technology at new plants. Funding for CCS R&D is in place, but more may be	
	· ·	nump about €8 billion into CCS, while a study by
	McKinsey & Company indicates that up to €7-€12 billion in funding may be	
	required.	
	Monitoring of this requir	roment will take place alongside other emissions
	Monitoring of this requirement will take place alongside other emissions	
	measures, with Member States reporting annually to the EU Commission.	

Target 48

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	Aviation Directive 2008/101/EC: 3% reduction in greenhouse gas emissions from aircraft flying into and out of the EU between 2012 and 2013 based on the 2004-2006 average as a baseline; 5% reduction in greenhouse gas emissions from aircraft flying into and out of the EU from 2013 onwards.	
Date Announced	July, 2008	, 0
Target Date	2012-2013; 2013 onward	s
CO ₂ Abatement Potential	No impact on BAU in 201	
Policy Category	Sector/Industry Specific F	
Related Emissions Target(s)	Target 43, Target 44 and	
Supporting Policies: Mandates and Incentives	International Air Transpor	rt Association carbon neutral growth target; EU R&D
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	On July 8 th , 2008, the EU Parliament voted in favor of including aviation sector emissions in the EU-ETS as of 2012. A detailed plan has been set out, which includes allowance allocation, exemptions and inclusions within the scheme. The Directive makes one Member State responsible for administering each aircraft operator participating in the EU-ETS. Airlines will receive 85% of Aviation Allowances (AAs) for free from February 2012 with the remaining 15% to be auctioned. Airlines can use EUAs (allowances from the EU-ETS) for compliance, but EU-ETS participants cannot use AAs for compliance under that scheme. If insufficient aviation allowances are surrendered to meet compliance, airlines that are not compliant will be "named and shamed" and a penalty of €100/ton of CO₂ will be levied. From 2013 the penalty will rise with price indices. The Commission can also impose an operating ban on an aircraft operator if other enforcement attempts have failed. A key question that remains to be resolved is whether the EU can impose a	
	cap-and-trade on non-EU airlines. The US has suggested that it may pursue trade and legal challenges to the Aviation EU-ETS. According to the EU Commission, 2004-2006 average emissions from aviation were around 218 MT CO ₂ and are estimated to rise to 340 MT by 2015. On June 8th, 2009 the International Air Transport Association declared that it would set a goal of carbon neutral growth by 2020. The European Union is also funding research to reduce aircraft noise and fuel consumption.	

Target 49

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	Fuel Quality Directive: Suppliers must ensure a 6% reduction in greenhouse	
	gas emissions from the fu	uel production chain by 2020
Date Announced	December, 2008	
Target Date	2020	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 43, Target 44 and	Target 45
Supporting Policies:	EU Renewable Fuel Stan	dard (Target 52); Ireland Biofuel Standard (Target
Mandates and Incentives	95)	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	This policy was enacted alongside the EU Climate and Energy Package and was formally adopted in April, 2009, and entered into force in May, 2009. Member States are responsible for drawing up their own plans to meet the target. Due to the complexity of the requirement, there are still a number of elements up for review. These include greenhouse gas lifecycle analysis methodology, greenhouse gas emissions baseline standards, the methodology to calculate the contribution of electric vehicles, and indirect land use change values for biofuels. Only those fuel suppliers that are designated by Member States will be responsible for lifecycle greenhouse gas emissions. They must report annually	
	on greenhouse gas emissions and must submit the first report by the end of 2010. The Directive creates the opportunity for several suppliers to choose to meet the obligation jointly and be considered as a single supplier.	

Target 50

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	European Commission 1997 White Paper: 'Energy for the Future: Renewable Sources of Energy': 12% of primary energy should come from renewables by 2010	
Date Announced	1997	
Target Date	2010	
CO ₂ Abatement Potential	245 MT of abatement in 2	2012
Policy Category	Renewable Portfolio Stan	dard - Energy
Related Emissions Target(s)	Target 43, Target 44 and	Target 45
Supporting Policies:	National Renewable Por	tfolio Standards (Target 56, Target 57, Target 59,
Mandates and Incentives	Target 60, Target 62, Target 63, Target 65, Target 66, Target 67, Target 69, Target 70, Target 72, Target 74, Target 75, Target 77, Target 78, Target 82,	
	Target 83, Target 84, Target 85, Target 88, Target 89, Target 91, Target 93, Target 94, Target 97, Target 99, Target 101, Target 102, Target 104, Target 107, Target 108, Target 110, Target 112, Target 114, Target 116, Target 118, Target 120, Target 121, Target 122, Target 126, Target 129, Target 130, Target 131, Target 135, Target 136); national subsidies, national feed-in tariffs; national public funding.	
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	In 1997 the Government White Paper: 'Energy for the future – Renewable energy sources' was released setting the objective to attain, by 2010, a 12% share of renewable energy in the European Union. Despite growing subsidies and support programs at Member State level, the observed growth rates in renewable energy consumption are not sufficient to meet this target by 2010. A major blow to the target is that there has been insufficient rainfall to make full use of hydropower.	
	According to the European Environment Agency the share of renewable energy sources in primary energy consumption increased slowly in the EU from 4.4% in 1990 to 8.5% in 2005, substantially short of the 12% target.	
	Sanctions for non-compliance are unclear. While the EU Commission has the right to take legal action against member states who do not comply, this has not always led to target achievement.	
	9% of the EU's energy mix came from renewables in 2008.	

Target 51

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	EU Energy and Climate Directive: 20% of primary energy should come from	
	renewables by 2020	
Date Announced	March, 8 th , 2007	
Target Date	2020	
CO ₂ Abatement Potential	775 MT of abatement in 2	2020
Policy Category	Renewable Portfolio Star	ndard - Energy
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45
Supporting Policies:	National Renewable Por	rtfolio Standards (Target 56, Target 57, Target 59,
Mandates and Incentives	Target 60, Target 62, Ta	rget 63, Target 65, Target 66, Target 67, Target 69,
	Target 70, Target 72, Ta	rget 74, Target 75, Target 77, Target 78, Target 82,
	Target 83, Target 84, Ta	rget 85, Target 88, Target 89, Target 91, Target 93,
	Target 94, Target 97, Ta	rget 99, Target 101, Target 102, Target 104, Target
	107, Target 108, Target	110, Target 112, Target 114, Target 116, Target 118,
	Target 120, Target 121,	Target 122, Target 126, Target 129, Target 130,
	Target 131, Target 135	, Target 136); national subsidies, national feed-in
	tariffs; national public fun	ding.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	In January 2008 the Euro	pean Commission put forward an integrated proposal
	for climate action, includi	ng a proposal for a Directive on the promotion of the
	use of energy from renew	able sources with country-specific targets for 2020.
	The new Directive impro	oves the legal framework for promoting renewables
		on plans that establish pathways for the development
	of renewable energy	sources. Each Member State is responsible for
	implementing individual	targets to meet the EU 20% target. The
	implementation structure	e for the new Directive should be established by
	Member States by 201	0. There are a number of Member State policies
	promoting renewable de	evelopment including feed-in tariffs, tax exemptions
	and grants. Member St	ates are responsible for reporting progress to the
	Commission. Each cour	ntry has assigned a ministry responsibility for the
	target. While indicative i	nterim targets between now and 2020 are in place,
	there are no binding interim targets.	
		ve requires the Commission to start infringement
		mber States that fail to fulfil their obligations. Dorte
	Fouquet, Director of the European Renewable Energies Federation, argues	
	that the lack of binding interim targets or penalty mechanisms is the weakest	
	point of the EU's renewable directive.	

Target 52

Country/Region	European Union		
Policy Type	Legislation		
Policy Name/Description	EU Energy and Climate Directive: 10% of transport fuels from renewable		
	sources, including biofue	sources, including biofuels, hydrogen, and green electricity, by 2020	
Date Announced	December, 2008		
Target Date	2020		
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020	
Policy Category	Renewable Fuel Standar	d	
Related Emissions Target(s)	Target 43, Target 44 and	Target 45	
Supporting Policies:	EU Funding; national bio	fuel standard (Target 95); national Renewable	
Mandates and Incentives	Transport Fuel Obligation	n; national biofuel subsidies and public financing.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary			

Target 53

Country/Region	European Union		
Policy Type	Legislation		
Policy Name/Description	EU Energy and Climate Package: 20% reduction in primary energy		
	consumption by 2020 through energy efficiency		
Date Announced	December, 2008		
Target Date	2020		
CO ₂ Abatement Potential	430 MT of abatement in 2	020	
Policy Category	Sector/Industry Specific R	Regulation	
Related Emissions Target(s)	Target 43, Target 44, Target	get 45	
Supporting Policies:	EU lighting efficiency	standard (Target 54); national lighting efficiency	
Mandates and Incentives	standards (Target 79 an	d Target 133); national efficiency standard (Target	
	86); national smart mete	r standard (Target 132); national building efficiency	
	codes; national appliance	standards; and national industry standards.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	A goal to reduce primary	energy consumption by 2020 was implemented in the	
	Energy and Climate Pac	ckage, 2009. As part of the policymaking process,	
	countries were required to	submit National Energy Efficiency Action Plans.	
	The EU has a number supporting policies in place, including its decision to		
	phase out incandescent light bulbs by 2012 within its Eco-Design Directive.		
	The EU Commission has	also selected a new batch of product groups to come	
	under the binding minimu	under the binding minimum eco-design standards in the coming years, which	
	will boost their energy	efficiency. There are a number of Member State	
	efficiency standards for ap	opliances and buildings that also support this target.	
		used to promote emissions cuts and increase the	
	=	December, 2008 the Commission announced new	
		ance national and local schemes to promote energy	
		d energy consumption at the level desired by the EU	
	by 2020 is estimated to re	equire at least €250 billion of investment.	
	Member States are responsible for implementation, through Departments of		
	Energy, Environment, and/or Climate Change. The European Commission is		
	ultimately responsible for tracking compliance.		
	Constions for non some	anno are unclear. While the ELL Commission has the	
	Sanctions for non-compliance are unclear. While the EU Commission has the		
	right to take legal action against member states who do not comply, this has not always led to target achievement.		
	Thot always led to target a	snievernent.	

Target 54

Country/Region	European Union	
Policy Type	Legislation	
Policy Name/Description	EU Eco-Design Directive – Energy Efficiency Standard: Phase out	
	incandescent light bulbs I	oy 2012
Date Announced	December, 2008	
Target Date	2012	
CO ₂ Abatement Potential	15 MT of abatement in 20	012
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45
Supporting Policies:	National lighting efficiency	y standards (Target 79 and Target 133); Subsidies.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	The target is part of the EU's 2005 Eco-Design Directive. EU Member States endorsed the European Commission's proposals to progressively phase out incandescent light bulbs starting in 2009, and the standard was officially adopted on March 18 th , 2009. The Commission is financing research into light emitting diodes (LEDs), and finance ministries are expected to provide subsidies for the purchase of 50 million low-energy bulbs. The European Commission is ultimately responsible for tracking compliance with Member States enacting their own strategies to implement the standard. The phase-out scheme covers only non-directional lights, emitting light equally in all directions. It may also make exemptions for some technologies, including	
	halogens with specific lamp caps and special purpose incandescent lamps such as traffic lights and infrared lamps. As implementation of this target loomed, buying panics and hoarding have occurred around Europe.	

Target 55

Country/Region	Austria	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 13% reduction in greenhouse gas emissions below 1990	
	levels for the period 2008-2012 under EU burden sharing agreements	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	10 MT of abatement in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 57 and Target 56).	
Commentary	Austria's share of the overall EU-15's target of an 8% reduction in greenhouse	
	gas emissions under the Kyoto Protocol is to reach an emissions level 13%	
	below 1990 levels for the period 2008-2012.	
	Austria published it revised Climate Strategy in March, 2007. The strategy	
	includes a variety of measures to meet the target, and was developed after	
	Austria's previous plan was criticized.	
	According to the European Environment Agency, Austria's emissions are set	
	to increase to 17% above base-year levels by 2010, but Kyoto Protocol	
	mechanisms and carbon sink activities may reduce this and help Austria	
	achieve its 13% reduction target. In 2006, Austria was at an emissions level	
	15% above 1990 levels, and in November, 2008, the Austrian Court of Audit	
	warned that the country would not meet its Kyoto target unless it stepped up	
	its domestic efforts.	

Target 56

Country/Region	Austria	
Policy Type	Legislation	
Policy Name/Description	EU Renewable Directive 2001/77/EC: 78% of electricity in the energy mix from	
	renewables by 2010	
Date Announced	2001	
Target Date	2010	
CO ₂ Abatement Potential	5 MT of abatement in 201	2
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 55
Supporting Policies:	National solar incentive	s; national feed-in tariff; national Eco-Power Act,
Mandates and Incentives	national tax exemptions for	or renewables; national subsidy programs.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary		

Target 57

Country/Region	Austria	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 34% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Targ	get 45 and Target 55
Supporting Policies:	National solar incentives	s; national feed-in tariff; national Eco-Power Act,
Mandates and Incentives	national tax exemptions for	or renewables; national subsidy programs.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	new Directive on the Pror EU governments reached State should increase its EU renewable energy. renewables in gross final The Austrian Ministry Management has develop 2010 and 45% by 2020. Directive, to develop this process of the Austria's success in renewable an Eco-Power Act installations. Investment small district heating systems by the federal government renewable electricity through the current EU Directive.	solar thermal installations in place, and much of ewable energy is due to a feed-in tariff. Austria also and a number of tax exemptions for renewable costs in biomass heating systems, biogas facilities, ems, solar systems and wind turbines are subsidized at. Austria has budgeted €21 million per year for new ugh 2011. This budget represents a €4 million annual
	Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms is the weakest point of the EU's renewable directive. In 2005, Austria met 23.3% of its energy needs through renewables.	

Target 58

Country/Region	Belgium	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 7.5% reduction in greenhouse gas emissions below 1990	
	levels for the period 2008-2012 under EU burden sharing agreements	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	1 MT of abatement in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 60 and Target 59).	
Commentary	Belgium's share of the overall EU-15's target of an 8% reduction in	
	greenhouse gas emissions under the Kyoto Protocol is to reach an emissions	
	level 7.5% below 1990 levels for the period 2008-2012. Belgium has a	
	National Climate Policy in place with recommendations to meet the target.	
	According to the European Environment Agency, projections show a decrease	
	to 4% below base year emissions by 2010 and 9% with the use of	
	mechanisms under the Kyoto Protocol.	

Target 59

Country/Region	Belgium	
Policy Type	Legislation	
Policy Name/Description	EU Renewable Directive 2001/77/EC: 6% of gross electricity generation from	
	renewable sources by 2010	
Date Announced	2001	
Target Date	2010	
CO ₂ Abatement Potential	1 MT of abatement in 201	2
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 58
Supporting Policies:	National green certificate	system; national feed-in tariffs; national subsidies for
Mandates and Incentives	solar PV; national tax exe	emptions; European Investment Bank funding.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	3	

Target 60

Country/Region	Belgium	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 13% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	30 MT of abatement in 20	020
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 58
Supporting Policies:	National green certificate	system; national feed-in tariffs; national subsidies for
Mandates and Incentives	solar PV and renewable I	heat installations; national tax exemptions; European
	Investment Bank funding.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	new Directive on the Pror EU governments reached State should increase its EU renewable energy. renewables in gross fina June, 2010, under the EU plans to meet the 2020 ta The main promotion schertificate system, which of their energy from reneguaranteed minimum price renewable projects. An in well as for renewable he the European Investment loan. Companies that do not accounting period must precertificate (equivalent to Flanders, the penalty is € According to the European meet the 2020 its target	the European Commission put forward a proposal for a motion and Use of Energy from Renewable Sources. It agreement in December, 2008 that each Member use of renewable energies in a bid to boost overall Belgium's share of the target is to reach 13% all energy consumption by 2020. Belgium has until Directive to develop a National Action Plan detailing right. The meme for renewable energy in Belgium is a green obliges electricity suppliers to source a set proportion ewable generators. The Belgian scheme also offers ces ("fall-back prices"), which decreases the risk of investment subsidy is also available for solar PV, as not installations. To help finance renewable projects, Bank is providing a Flemish bank with a €150 million areach their renewable by the end of the certificate pay a penalty. Penalties are €100 for each missing 1 MWh of power) in Wallonia and Brussels. In 125 for each missing certificate. The Environment Agency, Belgium will find it difficult to even with planned additional domestic policies and 2.2% of power generation came from renewables.

Target 61

Country/Region	Bulgaria
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1988 levels
	for the period 2008-2012
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	40 MT of hot air in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates and Incentives	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU energy efficiency standard (Target 53); EU vehicle efficiency standard (Target 46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting standard (Target 54); EU Emissions Trading Scheme; national Renewable Portfolio Standard (Target 62).
Commentary	Bulgaria's individual Kyoto Protocol emissions target is to reach an emissions level 8% below base 1988 levels for the period 2008-2012.
	Bulgaria is expected to significantly overachieve its target, potentially reaching 35% below base year levels by 2010, when the support of mechanisms under the Kyoto Protocol is factored in.
	Bulgaria has put in place a number of policies that support achieving its emissions target. An Energy Strategy was adopted by Parliament in July, 2002, that envisages using market mechanisms to transform the sector. An Act on Renewable Energy Supply was adopted in June, 2007. The act aims to diversify energy supply, promote environmental protection, set the terms for sustainable local and regional development, and increase the capacity of small and medium enterprises and renewable energy producers. Legislation is expected in 2011 on using market mechanisms to encourage production of
	electricity and heat from renewable energy sources.

Target 62

Country/Region	Bulgaria	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 16% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Targ	get 45 and Target 61
Supporting Policies:	National public funding; na	ational feed-in tariff; national tax exemptions;
Mandates and Incentives	national Renewable and E	nergy Acts; national green certificates.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy.	Bulgaria's share of the target is to reach 18%
	renewables in gross final energy consumption by 2020.	
	Bulgaria's National Program on Renewable Energy Sources (RES) has a goal of significantly increasing the share of non-hydro renewables in the energy mix. Bulgaria's Renewable and Alternative Energy Sources and Biofuels Act (2007), Energy Act (2003), and Energy Efficiency Act (2004) support renewable energy. A bill is expected in 2011 that will detail market mechanisms for encouraging production of electricity and heat from renewable energy sources.	
	There are comprehensive feed-in tariffs for hydro, wind, solar PV and Biomass < 5MW. The European Bank for Reconstruction and Development is investing in both energy and generation and transmission in Bulgaria.	
	The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms is the weakest point of the EU's renewable directive.	
	9.4% of final energy consumption came from renewables in 2005. Most of this was from hydro.	

Target 63

Country/Region	Cyprus	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 13% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44 and	
Supporting Policies:	-	subsidies; national public funding; national feed-in
Mandates and Incentives	tariff; national levy on elec	
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a

Target 64

Country/Region	Czech Republic	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels	
	for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	30 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 65, Target 66 and Target 67).	
Commentary	The Czech Republic's individual Kyoto Protocol emissions target is to reach an	
	emissions level 8% below 1990 levels for the period 2008-2012.	
	The Czech Republic is expected to overachieve its target; projections show a	
	decrease of 25% below base year emissions by 2010.	
	The Czech Republic has implemented a number of policies to support target	
	achievement. There is a State Environmental Fund that provides significant	
	funding for renewable projects. The Czech Republic ratified its State Energy	
	Conception in 2004. The plan sets renewable targets up to 2030. Under the	
	plan, premium payments are expected to be developed for producers of	
	electricity from combined heat and power plants. The Czech Republic is also	
	encouraging the use of biofuels through the Air Protection Act (2002).	

Target 65

Country/Region	Czech Republic	
Policy Type	Legislation	
Policy Name/Description	EU Renewable Directive 2001/77/EC: 8% of gross electricity generation from	
	renewable sources by 2010	
Date Announced	2001	
Target Date	2010	
CO ₂ Abatement Potential	5 MT of abatement in 201	2
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 64
Supporting Policies:	National feed-in tariff; nat	ional public funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	Monitoring: 2 Historical Achievement: 3	

Target 66

Country/Region	Czech Republic	
Policy Type	Legislation	
Policy Name/Description	6% share of renewable energy in primary energy by 2010 and 15-16% by	
	2030	
Date Announced	2004	
Target Date	2010	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 64
Supporting Policies:	National feed-in tariff; nat	ional feed-in premium; national public funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	16% renewable energy in National Program for Ef Renewable and Second renewable strategy. A key limiting factor to the Republic is that existing the development of renewand the significant excess of the Temelin Nuclear Pelectricity development for A feed-in system for renewable system was additariff and feed-in premiute which scheme they want each unit of electricity for market price for electricity. There are penalties in plengrid operator or plant operator or plant operator.	ace for violations of the standard on the part of the

Target 67

Country/Region	Czech Republic		
Policy Type	Legislation		
Policy Name/Description	EU Directive 2009/28/EC: 13% of gross final energy consumption from		
	renewable sources by 2020		
Date Announced	January, 23 rd , 2008		
Target Date	2020		
CO ₂ Abatement Potential	10 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 64	
Supporting Policies:	National feed-in tariff; nat	onal feed-in premium; national public funding.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a	
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.	
	EU governments reached	d agreement in December, 2008 that each Member	
	State should increase its	use of renewable energies in a bid to boost overall	
	EU renewable energy. T	he Czech Republic's share of the target is to reach	
	13% renewables in gross final energy consumption by 2020.		
	The National Program for Effective Energy Management and the Utilization of		
	Renewable and Secondary Sources of Energy sets out the government's		
	renewable strategy.		
	A key limiting factor to the development of renewable energy in the Czech		
	Republic is that existing	overcapacity of electricity production has hampered	
	the development of renev	vables. The failed privatization of the monopoly CEZ	
	and the significant excess	capacity of 27,000 GWh with the full commissioning	
	of the Temelin Nuclear P	ower Plant will remain a major barrier for renewable	
	electricity development fo	r at least another decade.	
	A feed-in system for ren	ewable energy was established in 2002. In March,	
	2005, the system was ada	apted to allow producers to choose between a feed-in	
	tariff and feed-in premium (green bonus). Producers can choose each year		
	which scheme they want to use. The feed-in tariff is a guaranteed price for		
	each unit of electricity for	each unit of electricity for 15 years while the green bonus is paid on top of the	
	market price for electricity	·.	
	Renewables accounted for 6.2% of gross final energy consumption in 2006.		

Target 68

Country/Region	Denmark	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 21% reduction in greenhouse gas emissions below 1990	
	levels for the period 2008-2012 under EU burden sharing agreements	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	5 MT of abatement in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 69 and Target 70).	
Commentary	Denmark's share of the overall EU-15's target of an 8% reduction in	
	greenhouse gas emissions under the Kyoto Protocol is to reach an emissions	
	level 21% below 1990 levels for the period 2008-2012. Projections show that	
	emissions will decrease to an average level 2% below base-year emissions	
	with existing policies and measures during 2008-2012. Use of Kyoto Protocol	
	mechanisms could bring this to a reduction of 12%. Further emissions	
	restrictions on industries may bring further reductions, but it is unclear if these	
	reductions will be sufficient to meet Denmark's target.	
	While there is a climate and anomaly reliev in place in Decree the Decish	
	While there is a climate and energy policy in place in Denmark, the Danish	
	think tank, Poyry, published a report in February, 2009, suggesting that the	
	current strategy was not sufficient for Denmark to meet its 2012 targets. In	
	October, 2008, the European Environment Agency also reported that Denmark	
	was unlikely to meet its emissions target under the Kyoto Protocol.	

Target 69

Country/Region	Denmark	
Policy Type	Legislation	
Policy Name/Description	20% of overall energy mix from renewable sources by 2011	
Date Announced	February, 2008	
Target Date	2011	
CO ₂ Abatement Potential	1 MT of abatement in 201	2
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 68
Supporting Policies:	National tax exemptions	s; national Promotion of Renewable Energy Act;
Mandates and Incentives	national feed-in tariffs.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	Denmark's Government agreed in February, 2008, on a target to increase its use of renewable energy to 20% by 2011. Denmark's Energy Policy 2008-2011 lays out the strategy to meet the target. In January, 2009, the Promotion of Renewable Energy Act was passed. Its purpose is to contribute to ensuring fulfillment of national and international objectives on increasing the proportion of energy produced through the use of renewable energy sources. Danish plans calls for better subsidies for developing energy from biomass, biogas and bio-hydrogen, and for two new wind parks to be built off the coast by 2012.	
	Renewable facilities connected prior to April, 21, 2004 receive a feed-in tariff. Plants receive the spot market price plus a top-up subsidy to provide a guaranteed price of €0.081 per kWh. Facilities connected after April, 21, 2004 receive production incentives. For instance, wind plants receive the spot market price plus a €0.013 per kWh production incentive. Significant sums have been allocated to subsidize renewable energy technologies. In 2009, the Government announced that it would double public funding for new energy R&D to €134 million. The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms is the weakest	
	point of the EU's renewable directive. Denmark has increased renewable penetration to over 17% (in 2008) of overall energy consumption. In the latest Danish forecast (May, 2009), the renewable share of total energy consumption is expected to be 21% in 2011.	

Target 70

Country/Region	Denmark		
Policy Type	Legislation		
Policy Name/Description	EU Directive 2009/28/EC: 30% of gross final energy consumption from		
	renewable sources by 2020		
Date Announced	January, 23 rd , 2008		
Target Date	2020		
CO ₂ Abatement Potential	10 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	Target 43, Target 44, Target	Target 43, Target 44, Target 45, Target 68	
Supporting Policies:	Tax exemptions; Promot	tion on Renewable Energy Act; Government R&D	
Mandates and Incentives	Funding; Feed-in Tariffs.		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary			
	Denmark has increased renewable penetration to over 17% (in 2008) of overall energy consumption. In the latest Danish forecast (May, 2009), the renewable share of total energy consumption is expected to be 21% in 2011.		

Target 71

Country/Region	Estonia	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 21% reduction in greenhouse gas emissions below 1990	
	levels for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	20 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standard (Target 72).	
Commentary	Estonia's individual Kyoto Protocol emissions target is to reach an emissions	
	level 8% below 1990 levels for the period 2008-2012.	
	In 2006, Estonia's emissions were 56% lower than base-year levels and	
	projections show emissions will decrease further to reach a level 63% below	
	base-year by 2010. Estonia will therefore significantly overachieve its Kyoto	
	target.	
	Estonia has developed a number of policies that support target achievement.	
	A Long-term Public Fuel and Energy Sector Development Plan until 2015 was	
	adopted through a decision of the Parliament on 15 th , December, 2004.	
	Estonia has feed-in tariffs in place to encourage renewable development and	
	these are regulated by the Electricity Market Act, 2003.	

Target 72

Country/Region	Estonia	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 25% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 71
Supporting Policies:	National feed-in tariff; nati	onal public funding; national green certificates.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy.	Estonia's share of the target is to reach 25%
	renewables in gross final energy consumption by 2020.	
	Programs to promote renewable energy include: a Long-term Plan for the Fuel and Energy Industry; a National Energy Conservation Program; an Action Plan for Energy Conservation; and a National Environment Strategy. Feed-in tariffs are regulated by the 2003 Electricity Market Act. In May, 2007, feed-in tariffs for renewable energy increased from €52 per MWh to €74.2 per MWh. From January, 2009, producers that use wind energy may sell renewable electricity at fixed tariffs until the total annual amount of electricity generated from wind in Estonia increases to 200 GWh. There is a high degree of complexity in the relationship between the state support system and a voluntary Green Energy Participation System run by the state owned grid operator.	
	The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms is the weakest point of the EU's renewable directive. According to the European Commission, Estonia has one of the lowest penetration rates of renewable energy in the EU. The share of renewable energy sources in final consumption fell from 1.8% in 2005 to 1.6% in 2006.	

Target 73

Country/Region	Finland	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 0% change in greenhouse gas emissions from 1990 levels for	
	the period 2008-2012 under EU burden sharing agreements.	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	1 MT of abatement in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 74 and Target 75).	
Commentary	Finland's share of the overall EU-15's target of an 8% reduction in greenhouse	
	gas emissions under the Kyoto Protocol is to reach an emissions level that is	
	even with 1990 levels for the period 2008-2012.	
	In 2006, Finland's emissions were 13% higher than base-year level, well	
	above its target for the period. Projections show that with existing policies	
	emissions will increase to 20% above base-year by 2010. Finland hopes to	
	reach a level 1% below base-year through use of Kyoto Protocol mechanisms	
	and carbon sink activities.	
	A 2000 Furances Fruitzament Amenou report noted that Figure 1	
	A 2008 European Environment Agency report noted that Finland was one of 6	
	Member States that was furthest from its Kyoto Protocol target.	

Target 74

Country/Region	Finland		
Policy Type	Legislation		
Policy Name/Description	EU Renewable Directive 2001/77/EC: 31.5% of gross electricity generation		
	from renewable sources by 2010		
Date Announced	2001		
Target Date	2010		
CO ₂ Abatement Potential	1 MT of abatement in 201	2	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 73	
Supporting Policies:	National tax exemptions;	national investment subsidies; national feed-in tariffs;	
Mandates and Incentives	national guaranteed grid a	access arrangements.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	2		
Supporting Commentary	In compliance with the	2001 EU Directive on the Promotion of Electricity	
	Produced from Renewabl	e Energy Sources, Finland aims to increase its share	
	of electricity from renewal	oles to 31.5% by 2010.	
	In 2001, Finland publish	ed its National Climate Strategy, which integrated	
	renewable strategy to its	objective of meeting its Kyoto Protocol commitments.	
	Targets for renewables ar	e clearly spelled out by technology class, and interim	
	targets are in place.		
	Finland has put a number	Finland has put a number of measures in place to support renewables. These	
	include: Exempting elect	include: Exempting electricity from renewable sources from the energy tax	
	paid by end users; subs	sidizing new investments in renewables up to 30%	
	(40% for wind); and prov	iding guaranteed access to the grid for all electricity	
	users and electricity-p	roducing plants, including renewable electricity	
	generators. In April, 2009), Finland's Government proposed a feed-in tariff for	
	wind power of €83.5 per	MWh, which will be introduced in 2010, and will be	
	set for a period of 12 y	rears. The National Technology Agency of Finland	
	provides €10 million of an	nual funding for renewable energy.	
		re requires the Commission to start infringement	
		nber States that fail to fulfil their obligations. Dorte	
	•	European Renewable Energies Federation, argues	
	-	sterim targets or penalty mechanisms is the weakest	
	point of the EU's renewab	point of the EU's renewable directive.	
	28.5% of power generation came from renewables in 2004, meaning Finland		
	is on track to meet its 201	U renewable target.	

Target 75

Country/Region	Finland	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 38% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	10 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Targ	get 45 and Target 73
Supporting Policies:	Tax subsidies; investmen	nt subsidies; Feed-in tariffs; Guaranteed grid access
Mandates and Incentives	arrangements; Tax exemp	otions.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	-	

Target 76

Country/Region	France	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 0% change in greenhouse gas emissions from 1990 levels for	
	the period 2008-2012 under EU burden sharing agreements.	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	45 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade and Carbon Tax (proposed)	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 77 and Target 78); national lighting efficiency	
	standard (Target 79); proposed national carbon tax (2009).	
Commentary	France's share of the overall EU-15's target of an 8% reduction in greenhouse	
	gas emissions under the Kyoto Protocol is to reach an emissions level even	
	with 1990 levels for the period 2008-2012. In 2006, emissions were 4% below	
	base year levels, below France's burden sharing target of 0% for the period.	
	With existing policies, emissions will increase to reach a level 1% above base-	
	year emissions by 2010. However, France expects to achieve a level 4%	
	below base-year emissions through use of Kyoto Protocol mechanisms and	
	other measures.	
	France has a well-developed strategy to support target achievement. In 2004,	
	France published a detailed plan with 60 measures aimed at reducing	
	greenhouse gas emissions. France has put in place generous feed-in tariffs for	
	renewable technologies and continues to roll out nuclear as part of its broader	
	energy program. In September, 2009, France also unveiled a carbon tax at	
	€17 per ton of CO ₂ emitted. This tax, which would be levied on oil, gas and	
	coal consumption by households and businesses, is scheduled to come into	
	effect in 2010.	
	To track its progress, France prepares an inventory of greenhouse gases and	
	submits it to the European Commission. The Commission, in turn, makes an	
	annual progress report to the European Parliament and Council. The UN	
	climate secretariat released figures in November, 2008, showing that France is	
	on target to meet its Kyoto obligation.	

Target 77

Country/Region	France	
Policy Type	Legislation	
Policy Name/Description	EU Renewable Directive 2001/77/EC: 21% of gross electricity generation from	
	renewable sources by 2010	
Date Announced	2001	
Target Date	2010	
CO ₂ Abatement Potential	35 MT of abatement in 20	12
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 76
Supporting Policies:	National feed-in tariffs; na	ational tax credits; national capital grants for biofuels;
Mandates and Incentives	national subsidies.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	In compliance with the	2001 EU Directive on the Promotion of Electricity
	Produced from Renewable	e Energy Sources, France aims to increase its share
	of electricity from renewal	oles to 21% by 2010.
	Mile France has devel	and a datable describe starters as most of its
	While France has developed a detailed renewable strategy as part of its	
	climate plan, France is far off meeting the target. The proportion of renewable	
	electricity has actually declined, from 15% in 1997 to 11% in 2005.	
	Supporting policies for renewables, however, include some of the most	
	generous feed-in tariffs in the world. The tariffs were introduced in 2001 and	
	2002 and modified in 20	005 and 2006. Changes to the country's system of
	Advanced Renewable Ta	ariffs in 2006, raised the base tariff from €0.15 to
	€0.30 per kWh, resulting	in many new renewable energy projects. A new feed-
	in tariff category for sola	r PV in commercial buildings of €0.45 per kWh was
	introduced in November,	2008. Tariffs will remain in place until 2012. There is
	also a 50% tax credit ava	ailable for residential solar PV systems and a tender
	system for large renewable projects.	
	The current EU Directive requires the Commission to start infringement	
	proceedings against Member States that fail to fulfil their obligations. Dorte	
	Fouquet, Director of the European Renewable Energies Federation, argues	
	that the lack of binding interim targets or penalty mechanisms is the weakest	
	point of the EU's renewable directive.	

Target 78

Country/Region	France		
Policy Type	Legislation		
Policy Name/Description	EU Directive 2009/28/EC: 23% of gross final energy consumption from		
	renewable sources by 2020		
Date Announced	January, 23 rd , 2008		
Target Date	2020		
CO ₂ Abatement Potential	50 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	Target 43, Target 44, Targ	get 45 and Target 76	
Supporting Policies:	National feed-in tariffs; na	ational tax credits; national capital grants for biofuels;	
Mandates and Incentives	national subsidies.		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	1		
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a	
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.	
	EU governments reached	d agreement in December, 2008 that each Member	
	State should increase its use of renewable energies in a bid to boost overall		
	EU renewable energy. France's share of the target is to reach 23%		
	renewables in gross final energy consumption by 2020. France has a detailed		
	plan in place on how it expects to meet the 2020 target.		
	Supporting policies for renewables include some of the most generous feed-in tariffs in the world. The tariffs, introduced in 2001 and 2002, were modified in 2005 and 2006. Changes to the country's system of Advanced Renewable Tariffs in 2006, raised the base tariff from €0.15 to €0.30 per kWh, resulting in many new renewable energy projects. A new feed-in tariff category for solar PV in commercial buildings of €0.45 per kWh was introduced in November, 2008. Tariffs will remain in place until 2012. There is also a 50% tax credit available for residential solar PV systems and a tender system for large renewable projects. A Renewable Energy Heat Fund is also due to be launched in 2010 to support the production of heat from geothermal, biogas and solar thermal collectors. The French Ministry has also announced a plan to boost hydropower as part of the country's goal to have 23% renewables. The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues		
	that the lack of binding interim targets or penalty mechanisms is the weakest point of the EU's renewable directive.		
Supporting Commentary	On January 23 rd , 2008, the European Commission put forward a proposal for a new Directive on the Promotion and Use of Energy from Renewable Sources. EU governments reached agreement in December, 2008 that each Member State should increase its use of renewable energies in a bid to boost overall EU renewable energy. France's share of the target is to reach 23% renewables in gross final energy consumption by 2020. France has a detailed plan in place on how it expects to meet the 2020 target. Supporting policies for renewables include some of the most generous feed-in tariffs in the world. The tariffs, introduced in 2001 and 2002, were modified in 2005 and 2006. Changes to the country's system of Advanced Renewable Tariffs in 2006, raised the base tariff from €0.15 to €0.30 per kWh, resulting in many new renewable energy projects. A new feed-in tariff category for solar PV in commercial buildings of €0.45 per kWh was introduced in November, 2008. Tariffs will remain in place until 2012. There is also a 50% tax credit available for residential solar PV systems and a tender system for large renewable projects. A Renewable Energy Heat Fund is also due to be launched in 2010 to support the production of heat from geothermal, biogas and solar thermal collectors. The French Ministry has also announced a plan to boost hydropower as part of the country's goal to have 23% renewables. The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte		

Target 79

Country/Region	France	
Policy Type	Voluntary	
Policy Name/Description	Phase out incandescent light bulbs by 2012	
Date Announced	October, 2008	
Target Date	2012	
CO ₂ Abatement Potential	1 MT of abatement in 201	2 and 1 MT of abatement in 2020
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 76
Supporting Policies:	National manufacturing in	ncentives.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	1	
Supporting Commentary	French retailers signed an agreement with the government to phase out incandescent light bulbs by 2012. There is a detailed plan in place with 8 key objectives including: tripling market share of low-energy lamps by 2010; reorganizing sales points so that low-energy bulbs account for half of aisle space by the end of 2008; reducing energy consumption of lamps sold in 2010 by one half; and undertaking promotional activities to reduce the cost of low-energy lamps with EDF participation. The agreement was signed and has the support of the Ministry of Ecology, Energy, Sustainable Development and Planning, home DIY retailers, organization of recycling used lamps, EDF energy and the French energy management agency ADEME.EDF is responsible for marketing and awareness campaigns.	
	There is an indicative calendar for phasing out bulbs in place: On June 30 th , 2009, incandescent light bulbs greater than 100W were phased out; on December 31 st , 2009, incandescent light bulbs greater or equal to 75 W will be phased out; on June 30 th , 2010, incandescent light bulbs greater or equal to 60 W will be phased out; on August 31 st , 2011, incandescent light bulbs greater or equal to 40 W will be phased out; and on December 31 st , 2012, incandescent light bulbs greater or equal to 25 W will be phased out. There are some manufacturing incentives to switch to more efficient light bulbs, as well as public incentives to encourage consumers to purchase more efficient products.	

Target 80

Country/Region	Germany	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 21% reduction in greenhouse gas emissions below 1990 levels for the period 2008-2012 under EU burden sharing agreements	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	80 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates and Incentives Commentary	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU energy efficiency standard (Target 53); EU vehicle efficiency standard (Target 46), EU power sector standard (Target 47), EU aviation sector target standard (Target 48), EU fuel chain emissions standard (Target 49) and EU lighting standard (Target 54); EU Emissions Trading Scheme; national Renewable Portfolio Standards (Target 82, Target 83, Target 84 and Target 85); national energy efficiency standard (Target 86). Germany's share of the overall EU-15's target of an 8% reduction in	
	greenhouse gas emissions under the Kyoto Protocol is to reach an emissions level 21% below 1990 levels for the period 2008-2012. In 2007, emissions were 21.3% lower than base year levels. Projections show that emissions will decrease to 22% below base year levels by 2010, and further measures, including use of the Kyoto Protocol mechanisms, will bring this to 26% below base year levels. Germany is therefore likely to overachieve its target with existing domestic policies and measures.	

Target 81

Country/Region	Germany		
Policy Type	Government aspiration		
Policy Name/Description	40% reduction in greenhouse gas emissions below 1990 levels by 2020		
Date Announced	April, 2007		
Target Date	2020		
CO ₂ Abatement Potential	160 MT of abatement in 2020		
Policy Category	Emissions target: Cap-and-Trade		
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU		
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target		
	46), EU power sector standard (Target 47), EU aviation sector target standard		
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting		
	standard (Target 54); EU Emissions Trading Scheme; national Renewable		
	Portfolio Standards (Target 82, Target 83, Target 84 and Target 85); national		
	energy efficiency standard (Target 86).		
Commentary	In April, 2007, Germany's Prime Minister unveiled an eight point plan to		
	reduce emissions by 40% from 1990 levels by 2020.		
	Key measures in the plan designed to reduce emissions include modernizing		
	Germany's power stations, increasing the share of renewable electricity		
	production, cutting electricity consumption, using more renewables for heating,		
	and increasing fuel efficiency and the use of biofuels in transport.		
	Cormany has ambitious Ponowable Portfalia Standards and national approxi-		
	Germany has ambitious Renewable Portfolio Standards and national energy		
	efficiency standards, as well as an Energy Industry Act to help link offshore		
	wind farms to the national grid. The Renewable Saving Ordinance is designed		
	to ensure that new buildings are low-energy, while the German Renewable		
	Energy Heat Act increases the generation of heat from renewable sources in buildings. There is also a generous feed-in tariff system in place to support		
	1		
	onshore wind, soar photovoltaics, biomass and biogas and hydro and		
	geothermal sources.		
	In 2007, according to the German Ministry of Environment, emissions were		
	21.3% lower than 1990 levels. Projections show that Germany will		
	overachieve its Kyoto emissions target for 2009-2012. However despite this		
	good progress, a report issued by consulting firm ECOtech in August, 2009,		
	found that the 2020 target will be hard to meet.		
	Tourid that the 2020 target will be hard to friedt.		

Target 82

Country/Region	Germany	
Policy Type	Legislation	
Policy Name/Description	EU Renewable Directive 2001/77/EC: 12.5% of gross electricity generation	
	from renewables by 2010	
Date Announced	2001	
Target Date	2010	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Target 45, Target 80 and Target 81	
Supporting Policies:	National feed-in tariffs; na	itional subsidized loans.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	Produced from Renewable Energy Sources, Germany aims to increase its share of electricity from renewables to 12.5% by 2010. In its Renewable Energy Sources Act, Germany already has a highly successful instrument for promoting power generation from renewable sources, and it has spurred wide-scale renewable uptake. Generous feed-in tariffs are in place for onshore wind, offshore wind, solar PV, biomass and biogas, hydro and geothermal. Under the German feed-in tariff legislation, renewable energy technologies are guaranteed interconnection with the electricity grid, and are paid a premium rate that is designed to generate a reasonable profit for investors over a 20-year term. The Deutsche Ausgleichsbank Environment and Energy Efficiency Program also offer subsidized loans for wind investments. The Renewable Energy Sources Act requires information to be passed on to the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety. The Federal Network Agency is responsible for monitoring tariffs and data submission. The act provides wide-ranging powers to federal government to enforce it. Any administrative offence can be punished by a fine of up to €100,000. The government is charged with evaluating the Act and submitting a progress report to the Bundestag by the end of 2011 and subsequently every four years thereafter. This target has already been met. In 2008, renewables accounted for 14.8% of total gross electricity consumption.	

Target 83

Country/Region	Germany	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 18% of gross final energy consumption from	
	renewable sources by 2020; 50% by 2050	
Date Announced	January, 23 rd , 2008	
Target Date	2020 and 2050	
CO ₂ Abatement Potential	135 MT of abatement in 2	020
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Targ	get 45, Target 80 and Target 81
Supporting Policies:	National feed-in tariffs; na	tional subsidized loans; national tax exemptions;
Mandates and Incentives	national subsidies; national	al investment in R&D.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy.	Germany's share of the target is to reach 18%
	renewables in gross final energy consumption by 2020.	
	In its Renewable Energy Sources Act, Germany already has a highly successful instrument for promoting power generation from renewable sources, and it has spurred wide-scale renewable uptake. Generous feed-in tariffs are in place for onshore wind, offshore wind, solar PV, biomass and biogas, hydro and geothermal. Under the German feed-in tariff legislation, renewable energy technologies are guaranteed interconnection with the electricity grid, and are paid a premium rate that is designed to generate a reasonable profit for investors over a 20-year term. The Deutsche Ausgleichsbank Environment and Energy Efficiency Program also offer subsidized loans for wind investments. The Renewable Energy Sources Act requires information to be passed on to the Federal Ministry for the Environment, Nature Conservation and Nuclear	
	Safety. The act provides wide-ranging powers to federal government to enforce it. Any administrative offence can be punished by a fine of up to €100,000. The government is charged with evaluating the Act and submitting a progress report to the Bundestag by the end of 2011 and subsequently every four years thereafter. Renewables currently account for 9% of final energy consumption.	

Target 84

ources by 2020. 007 020 0 MT of abatement in 202 enewable Portfolio Standarget 43, Target 44, Targ	dard: Energy
ources by 2020. 007 020 0 MT of abatement in 202 enewable Portfolio Standarget 43, Target 44, Targ	20 dard: Energy
007 020 0 MT of abatement in 202 enewable Portfolio Stand arget 43, Target 44, Targ	dard: Energy
020 0 MT of abatement in 202 enewable Portfolio Stand arget 43, Target 44, Targ	dard: Energy
0 MT of abatement in 202 enewable Portfolio Stand arget 43, Target 44, Targ	dard: Energy
enewable Portfolio Stand arget 43, Target 44, Targ	dard: Energy
arget 43, Target 44, Targ	
_ · _ · _ ·	
lational feed-in tariffs; nat	et 45, Target 80 and Target 81
	ional subsidized loans; national tax exemptions;
ational subsidies; nationa	al investment in R&D.
ncentives: 1	Sovereign Credit Risk: 1
ublic Financing: 1	Integrated Plan: 1
nforcement: 1	Implementation Capacity: 1
Ionitoring: 1	Historical Achievement: 1
In January, 2009, Sigmar Gabriel, Germany's Environment Minister pledged that a third of the country's energy will come from green sources by 2020 as part of a new Road Map for Climate, Energy and Growth. The 'Energy Roadmap' sets out a 10 point plan for 2020 including: Securing a lasting energy supply, deriving 30% of electricity from renewables, phasing out nuclear power, reducing electricity consumption by 11%, and reducing fossil heat requirements by at least 25%. In its Renewable Energy Sources Act, Germany already has a highly successful instrument for promoting power generation from renewable sources, and it has spurred wide-scale renewable uptake. Generous feed-in tariffs are in place for onshore wind, offshore wind, solar PV, biomass and biogas, hydro and geothermal. Under the German feed-in tariff legislation, renewable energy technologies are guaranteed interconnection with the electricity grid, and are paid a premium rate that is designed to generate a reasonable profit for investors over a 20-year term. The Deutsche Ausgleichsbank Environment and Energy Efficiency Program also offers subsidized loans for wind investments.	
his unit of the same of the sa	ational feed-in tariffs; national subsidies; national subsidies; national centives: 1 ablic Financing: 1 aforcement: 1 anitoring: 1 January, 2009, Sigmar at a third of the country at a third of the country at a far and a feed at requirements by at least requirements by at least requirements by at least requirements by at least requirement at requirement fources, and it has spurniffs are in place for one of a specific properties and geother extricity grid, and are properties as a specific properties and the profit for insignific properties.

Target 85

Country/Region	Germany	
Policy Type	Legislation	
Policy Name/Description	Renewable Energies Heat Act: 14% increase in share of renewables in the	
	heat supply by 2020	
Date Announced	January, 2009	
Target Date	2020	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Renewable Portfolio Stan	dard: Energy; Sector/Industry Specific Regulation
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 80 and Target 81
Supporting Policies:	National market incentive	program; national government funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	5	

Target 86

Country/Region	Germany	
Policy Type	Government aspiration	
Policy Name/Description	Energy Road Map 2020: 11% cut in electricity consumption from 2005 levels	
	by 2020.	
Date Announced	2007	
Target Date	2020	
CO ₂ Abatement Potential	20 MT of abatement in 20	020
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 80 and Target 81
Supporting Policies:	National Eco-Tax Law; na	ational Energy Saving Act; national fiscal reform;
Mandates and Incentives	national building standard	ds.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	Germany announced an aspirational target to reduce power consumption by 11% in 2007 and the strategy to achieve this is outlined in the new Energy Road Map for Germany, released in January, 2009. Studies on behalf of the German government before the Energy Summit in 2007 identified the measures that would be needed to cut power consumption by 2020 to a level 11% below that of 2005. Some important steps have already been achieved through the government's Integrated Energy and Climate Program. From 2005 to 2009, the federal government R&D funding for energy efficiency by €6.5 billion. A variety of supporting policies, from the Eco-Tax Law, to the Energy Saving Ordinance, to the Energy Saving Act, are in place. Fiscal reform has been undertaken to reduce energy consumption. There is a market incentive program in place, in addition to the mandate that all new buildings must use renewables. The government has also been working to increase planning certainty. Germany has a strong track record of meeting climate targets, and has decreased its consumption of primary energy resources in absolute terms	

Target 87

Country/Region	Greece	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 25% maximum increase in greenhouse gas emissions from	
	1990 levels for the period 2008-2012 under EU burden sharing agreements	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	10 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 88 and Target 89).	
Commentary	Greece's share of the overall EU-15's target of an 8% reduction in greenhouse	
	gas emissions under the Kyoto Protocol is to reach an emissions level no	
	higher than 25% above 1990 levels for the period 2008-2012. In 2006,	
	Greece's emissions were 24% higher than base year levels. Projections show	
	that emissions will remain at a level 24% above base year emissions for the	
	period 2008-2012. Additional measures, including use of the Kyoto Protocol	
	mechanisms, may reduce emissions to 21% above base year emissions.	
	The Oracle recommends has involved at National Action Disc. to and the	
	The Greek government has implemented a National Action Plan to reduce	
	greenhouse gas emissions. The plan proposes improving energy provision by	
	promoting renewable energy technologies and reducing energy consumption.	
	Despite the plan, Greece is already very close to missing its targets as	
	economic growth is driving an increase in greenhouse gas emissions.	
	According to the Center for Research and Technology Hellas (CERTH),	
	Greece will miss its targets unless additional measures are implemented.	
	Orecoe will miss its targets unless additional measures are implemented.	

Target 88

Country/Region	Greece		
Policy Type	Legislation		
Policy Name/Description	EU Renewable Directive 2001/77/EC: 20.1% of gross electricity generation		
	from renewable sources by 2010		
Date Announced	2001		
Target Date	2010		
CO ₂ Abatement Potential	5 MT of abatement in 201	2	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 43, Target 44, Targ	get 45 and Target 87	
Supporting Policies:	National tax exemptions;	national feed-in tariff; National Operational Program	
Mandates and Incentives	Competitiveness.		
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3	
Overall Risk Assessment	3		
Supporting Commentary	In compliance with the	2001 EU Directive on the Promotion of Electricity	
	Produced from Renewabl	e Energy Sources, Greece aims to increase its share	
	of electricity from renew	ables to 20.1% by 2010. The Greek Ministry of	
	Development's Operational Program Competitiveness (OPC) offers a powerful		
	financing instrument to in	nplement renewable energy technology investments.	
	In June, 2009, Greece co	emplemented its revised feed-in tariff scheme with a	
		roof-mounted projects. There is also a 20% rebate on	
	income taxes for expenses for domestic appliances/systems using renewable		
	energy.		
	Despite powerful incentives and plentiful renewable resources, the installed		
	power of renewable energy in Greece remains low (12.1% in 2008).		
		OPC have been delayed due to a complex legislative	
		onstraints, and infrastructure project delays. The	
		"Red tape, a lack of political will, and local opposition	
		oment of an otherwise promising renewables energy	
		e climate is endowed with plenty of sunshine and	
		ar behind European Union leaders in the field, such	
	•	nany." In September, 2009, Bloomberg reported that	
	-	will reach twice the European Union limit this year;	
	prompting the ruling New Democracy Government to propose spending cuts.		
	The current EU Directiv	ve requires the Commission to start infringement	
	proceedings against Mer	proceedings against Member States that fail to fulfil their obligations. Dorte	
	Fouquet, Director of the	European Renewable Energies Federation, argues	
	that the lack of binding interim targets or penalty mechanisms is the weakest		
	point of the EU's renewab	le directive.	

Target 89

Country/Region	Greece	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 18% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	10 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 87
Supporting Policies:		national feed-in tariff; National Operational Program
Mandates and Incentives	Competitiveness.	
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy.	Greece's share of the target is to reach 18%
	renewables in gross fir	nal energy consumption by 2020. In 2007, the
	Government announced Greece's Long-term Energy Planning 2008-2020 with	
	a basic scenario to increase the use of renewable energy sources.	
	The Greek Ministry of Development's Operational Program Competitiveness (OPC) offers a powerful financing instrument to implement renewable energy technology investments. The OPC aims to modernize the Greek energy system, improve national economic competitiveness, and monitor the country's environmental commitments. In June, 2009, Greece complemented its revised feed-in tariff scheme with a €0.55/kWh rate for small roof-mounted projects. Other supporting policies include a 20% rebate on income taxes for expenses for domestic appliances or systems using renewable energy. Despite powerful incentives and plentiful renewable resources, the installed power of renewable energy in Greece remains low. Investments through the OPC have been delayed due to a complex legislative framework, budgetary constraints, and infrastructure project delays. The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms is the weakest point of the EU's renewable directive.	

Target 90

Country/Region	Hungary		
Policy Type	International treaty		
Policy Name/Description	Kyoto Protocol: 6% reduction in greenhouse gas emissions below the average		
	of 1985-1987 levels for the period 2008-2012		
Date Announced	2002		
Target Date	2008-2012		
CO ₂ Abatement Potential	35 MT of hot air in 2012		
Policy Category	Emissions target: Cap-and-Trade		
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU		
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target		
	46), EU power sector standard (Target 47), EU aviation sector target standard		
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting		
	standard (Target 54); EU Emissions Trading Scheme; national Renewable		
	Portfolio Standard (Target 91).		
Commentary	Hungary's individual Kyoto target is to reach an emissions level 6% below the		
	average of 1985-1987 levels for the period 2008-2012.		
	In 2006, emissions were 32% lower than base year levels. Projections show		
	that, with existing policies and measures, emissions will increase to 25%		
	below base year levels by 2010, meaning Hungary will significantly		
	overachieve its target according to the UN.		
	Hungary has put in place a number of policies to support achieving its target.		
	In 2008 the Hungarian Renewable Strategy (2007-2020) was approved by the		
	Parliament. The strategy established targets for renewable energy, electricity		
	and biofuels. As part of the strategy, feed-in tariffs were put in place to		
	encourage the development of renewable energy.		

Target 91

	Hungary		
Policy Type	Legislation		
Policy Name/Description	EU Directive 2009/28/EC: 13% of gross final energy consumption from		
	renewable sources by 2020		
Date Announced	January, 23 rd , 2008		
Target Date	2020		
CO ₂ Abatement Potential	10 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 90	
Supporting Policies:	National feed-in tariff; nat	onal public funding; national subsidies.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1	
Overall Risk Assessment	2		
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a	
	new Directive on the Pro	notion and Use of Energy from Renewable Sources.	
	EU governments reached agreement in December, 2008 that each Member		
	State should increase its use of renewable energies in a bid to boost overall		
	EU renewable energy.	EU renewable energy. Hungary's share of the target is to reach 13%	
	renewables in gross final energy consumption by 2020.		
	The Hungarian Energy Saving and Energy Efficiency Improvement Action Program sets an interim renewables target of 6% by 2010. In 2008, the Government approved the Renewable Energy Strategy for 2007-2020, which favors decentralized generation, cogeneration of heat and power and the establishment of small power stations. The strategy forecasts a substantial amount of new investments by 2020. The New Electricity Act of January, 2008, set new feed-in tariffs and the system was modified in favor of smaller plants and those providing remote heating in 2008. A key strength of the feed-in tariff is that it is guaranteed for the lifetime of the installation with no limit defined by law. Plant operators may also receive subsidies from European Structural Funds or the National Program for the Promotion of Energy-Saving Measures and there is the possibility that green certificates will be introduced. The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms is the weakest point of the EU's renewable directive. In Q1 2009 4.3% of final energy consumption came from renewable energy.		

Target 92

Country/Region	Ireland	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 13% maximum increase in greenhouse gas emissions from 1990 levels for the period 2008-2012 under EU burden sharing agreements	
Date Announced	1990 levels for the period 2008-2012 under EU burden sharing agreements 2002	
Target Date	2002	
CO ₂ Abatement Potential	2008-2012 5 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates and Incentives	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU energy efficiency standard (Target 53); EU vehicle efficiency standard (Target 46), EU power sector standard (Target 47), EU aviation sector target standard (Target 48), EU fuel chain emissions standard (Target 49) and EU lighting standard (Target 54); EU Emissions Trading Scheme; national Renewable Portfolio Standards (Target 93 and Target 95); national biofuel standard (Target 95)	
Commentary	Ireland's share of the overall EU-15's target of an 8% reduction in greenhouse gas emissions under the Kyoto Protocol is to reach an emissions level no higher than 13% above 1990 levels for the period 2008-2012. In 2006, emissions were 25% higher than base year levels. Projections show that emissions will decrease to a level 23% above base year emissions by 2010. Ireland can reach its target through emission reductions from Kyoto Protocol mechanisms, potentially reaching a level of 12% above base year emissions.	
	According to the UN, Ireland is underachieving in meeting its Kyoto obligation. However, in March, 2009, the Irish Environmental Protection Agency announced that the economic downturn had led to a dramatic reduction in greenhouse gas emissions in Ireland. New projections showed Ireland to be much closer to achieving its target than it was before the economic downturn.	

Target 93

Country/Region	Ireland	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 16% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 92
Supporting Policies:	National feed-in tariffs; na	tional public funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
	EU governments reached agreement in December, 2008 that each Member	
	State should increase its use of renewable energies in a bid to boost overall	
	EU renewable energy. Ireland's share of the target is to reach 16%	
	renewables in gross final energy consumption by 2020.	
	Ireland's strategy for scaling up renewable energy was set out in its White Paper on Energy Policy. Supporting policies for renewable energy include a guaranteed 15-year feed-in tariff system for onshore wind, offshore wind, biomass, hydro and wave energy. The structure of the feed-in tariff regime is somewhat complex − it guarantees a minimum payment, but the purchase price must be negotiated between generators and suppliers. A valid grid connection is required before applying for payments through the feed-in tariff. Ireland's Government has committed up to €119 million for its feed-in tariffs. There is an independent government agency, Sustainable Energy Ireland, tasked with implementing Ireland's climate change efforts.	
	The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms is the weakest point of the EU's renewable directive. The European Commission notes that Ireland has successfully increased the proportion of renewables in final energy consumption from 3.6% to 6.9% from 1997 to 2005.	

Target 94

Ireland	
Legislation	
National Energy Plan: 40	0% of electricity from renewables by 2020
October, 2008	
2020	
1 MT of abatement in 20	20
Renewable Portfolio Star	ndard: Electricity
Target 43, Target 44, Ta	rget 45 and Target 92
Feed-in tariffs; public fun	ding.
Incentives:2	Sovereign Credit Risk: 1
Public Financing: 1	Integrated Plan: 1
Enforcement: 2	Implementation Capacity: 2
Monitoring: 2 Historical Achievement: 1	
2	
The Irish government's White Paper on Energy Policy set out national targets and in October, 2008, Ireland announced an increase to its national renewable energy target from 33% by 2020 to 40% by that year, with an interim target of 15% by 2010. This is one of the boldest renewable targets in the world. Supporting policies for renewable energy include a guaranteed 15-year feed-in tariff for onshore wind, offshore wind, biomass, hydro and wave energy. The structure of the feed-in tariff regime is somewhat complex − it guarantees a minimum payment, but the purchase price must be negotiated between generators and suppliers. A valid grid connection is required before applying for payments through the feed-in tariff. Ireland's Government has committed up to €119 million for its feed-in tariffs. There is an independent government agency, Sustainable Energy Ireland, tasked with implementing Ireland's climate change efforts.	
	Legislation National Energy Plan: 40 October, 2008 2020 1 MT of abatement in 20 Renewable Portfolio Stat Target 43, Target 44, Ta Feed-in tariffs; public fun Incentives:2 Public Financing: 1 Enforcement: 2 Monitoring: 2 2 The Irish government's Vand in October, 2008, Ire energy target from 33% 15% by 2010. This is one Supporting policies for retariff for onshore wind, of structure of the feed-in minimum payment, but generators and suppliers for payments through the Ireland's Government has There is an independent

Target 95

Country/Region	Ireland	
Policy Type	Legislation	
Policy Name/Description	Biofuels comprise 10% of road transport fuels by 2020	
Date Announced	2007	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Fuel Standard	d
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 92
Supporting Policies:	National excise relief; nat	ional public funding.
Mandates and Incentives		
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	The Irish government's White Paper on Energy Policy established a target that renewable energy account for 10% of petrol and diesel transport energy by 2020, with interim targets of 2% by 2008 and 3% by 2010. The Irish are currently formulating a biofuels plan to be submitted to the EU by June of 2010. A previous plan, Liquid Biofuels Strategy Study for Ireland, was developed in 2004. Excise relief was granted to eight biofuels projects in 2005-2006, however this is in the process of being changed from an excise relief scheme to an obligation mechanism whereby suppliers must ensure a certain portion of their road transport fuels come from biofuels. It is important therefore that there is a smooth transition from the current mechanism to the new one to ensure continued growth in biofuels to meet the 2010 target. There was a significant increase in the share of transport energy from biofuels	
	in 2008, although this was from a very low base. In absolute terms, the use of biofuels increased from 1ktoe in 2005 to 70 ktoe in 2008, representing 1.5% of transport fuel. This fell short of the 2% target for 2008.	

Target 96

Country/Region	Italy	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 6.5% reduction in greenhouse gas emissions from 1990 levels	
	for the period 2008-2012 under EU burden sharing agreements.	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	10 MT of abatement in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standard (Target 97).	
Commentary	Italy's share of the overall EU-15's target of an 8% reduction in greenhouse	
	gas emissions under Kyoto is to reach an emissions level 6.5% below 1990	
	levels for the period 2008-2012. In 2006, emissions were 10% higher than	
	base year levels. Projections show that with existing policies, emissions will	
	decrease to a level 7% above base year levels by 2010. Additional measures,	
	including use of the Kyoto Protocol mechanisms, would result in emission	
	reductions to a level 5% below base-year.	
	According to the UN, Italy is underachieving in meeting its Kyoto obligation.	

Target 97

Country/Region	Italy	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 17% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	45 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Targ	get 45 and Target 96
Supporting Policies:	Feed-in tariffs; priority acc	ess rules; green certificates;
Mandates and Incentives		
Investor Risk Assessment	Incentives:3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Promotion and Use of Energy from Renewable Sources.	
	EU governments reached agreement in December, 2008 that each Member	
	State should increase its use of renewable energies in a bid to boost overall	
	EU renewable energy. Italy's share of the target is to reach 17% renewables in	
	gross final energy consumption by 2020. The renewable plan is part of Italy's	
	overall CO ₂ reduction policy. The targets set out in the plan have continually	
	been missed.	
	Italy has moved from using a CIP6 feed-in tariff system to a green certificate	
	program and then back to a program backed by feed-in tariffs, leading to	
	substantial uncertainty. Court rulings have also cut incentives in the past.	
		are available for up to 1.2 GW of solar capacity per
	year, regular changes in the support scheme may imperil delivery.	
	The Furences Commissis	on stated in 2000 that Italy is far from the targets and
		on stated in 2008 that Italy is far from the targets set
	at the European level. Several factors contribute to this including: uncertainty due to recent political changes and ambiguities in current policy design; administrative constraints such as complex permitting procedures at the local level; and financial barriers such as high costs for grid connection. The current	
	EU Directive requires the Commission to start infringement proceedings	
	against Member States that fail to fulfil their obligations. Dorte Fouquet,	
	Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms are the weakest point of the	
		·
	EU's renewable directive. The majority of the 61 legal proceedings initiated by the European Commission between 2004 and April, 2009 were against Italy for failing to adequately implement its renewable obligation.	

Target 98

Country/Region	Latvia	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels	
	for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	15 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standard (Target 99).	
Commentary	Latvia's individual Kyoto Protocol emissions target is to reach an emissions	
	level 8% below 1990 levels for the period 2008-2012.	
	In 2006 emissions, were 55% below base year levels. Projections show that,	
	with existing policies and measures, emissions will increase to a level 46%	
	below base-year by 2010, meaning that Latvia will significantly overachieve	
	the target.	
	Lettic has a number of national in place that appears a structure of the	
	Latvia has a number of policies in place that support achievement of the	
	target. A quota system for renewables has been in place since 2002, with	
	authorized capacity levels determined by the Cabinet of Ministers on an	
	annual basis. Biofuels are also subject to a reduced excise tax rate, and	
	rapeseed oil is subject to 0% excise tax, regardless of its end use.	

Target 99

State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a proregulation which includes elements of both a quota system and tendering. July 24th, 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensurgand biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the instal capacity of the power plant. The changeable nature of the support system or create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Country/Region	Latvia		
Date Announced	Policy Type	Legislation		
Date Announced January, 23 rd , 2008	Policy Name/Description	EU Directive 2009/28/EC: 42% of gross final energy consumption from		
Target Date CO ₂ Abatement Potential Policy Category Renewable Portfolio Standard: Energy Related Emissions Target(s) Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary On January 23 rd , 2008, the European Commission put forward a proposal for new Directive on the Promotion and Use of Energy from Renewable Sourc EU governments reached agreement in December, 2008 that each Memi State should increase its use of renewable energis in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy Strategy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a pregulation which includes elements of both a quota system and tendering. July 24 ^{lh} , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensur mandatory procurement of power generated from wind, small hydro, bioma and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the instal capacity of the power plant. The changeable nature of the support system m create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.		renewable sources by 2020		
Policy Category Related Emissions Target(s) Renewable Portfolio Standard: Energy Related Emissions Target(s) Renewable Portfolio Standard: Energy Related Emissions Target(s) Rarget 43, Target 45 and Target 98 Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary On January 23 rd , 2008, the European Commission put forward a proposal for new Directive on the Promotion and Use of Energy from Renewable Source EU governments reached agreement in December, 2008 that each Meml State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Lativa's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Ener Strategy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a pregulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensu mandatory procurement of power generated from wind, small hydro, bioma and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the instal capacity of the power plant. The changeable nature of the support system or create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Date Announced	January, 23 rd , 2008		
Renewable Portfolio Standard: Energy	Target Date	2020		
Related Emissions Target(s) Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary On January 23 rd , 2008, the European Commission put forward a proposal for new Directive on the Promotion and Use of Energy from Renewable Source EU governments reached agreement in December, 2008 that each Memi State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Eners Strategy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a pr regulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, bioma and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the instal capacity of the power plant. The changeable nature of the support system or create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	CO ₂ Abatement Potential	1 MT of abatement in 202	20	
National feed-in tariff; national public funding; national subsidies; national tarexemptions. Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Public Financing: 1 Integrated Plan: 1	Policy Category	Renewable Portfolio Stan	dard: Energy	
Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Incentives: 2 Implementation Capacity: 1 Integrated Plan: 1 Int	Related Emissions Target(s)	Target 43, Target 44, Targ	get 45 and Target 98	
Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Devail Risk Assessment	Supporting Policies:	National feed-in tariff; nati	ional public funding; national subsidies; national tax	
Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary On January 23 rd , 2008, the European Commission put forward a proposal for new Directive on the Promotion and Use of Energy from Renewable Source EU governments reached agreement in December, 2008 that each Meml State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy Strategy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a prince gulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, bioma and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the instal capacity of the power plant. The changeable nature of the support system or create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Mandates and Incentives	exemptions.		
Enforcement: 3 Implementation Capacity: 1	Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary On January 23 rd , 2008, the European Commission put forward a proposal for new Directive on the Promotion and Use of Energy from Renewable Source EU governments reached agreement in December, 2008 that each Memi State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy Strategy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a pregulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, bioma and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the instal capacity of the power plant. The changeable nature of the support system more create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Overall Risk Assessment Supporting Commentary On January 23 rd , 2008, the European Commission put forward a proposal for new Directive on the Promotion and Use of Energy from Renewable Source EU governments reached agreement in December, 2008 that each Meml State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy Strategy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a pregulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, biomatic and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system more create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
On January 23 rd , 2008, the European Commission put forward a proposal for new Directive on the Promotion and Use of Energy from Renewable Source EU governments reached agreement in December, 2008 that each Meml State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a progulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensurgand biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system more create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
new Directive on the Promotion and Use of Energy from Renewable Source EU governments reached agreement in December, 2008 that each Meml State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a provential regulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, biomatical biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system more create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Overall Risk Assessment	2		
EU governments reached agreement in December, 2008 that each Meml State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a progulation which includes elements of both a quota system and tendering. July 24th, 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, biomated and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system more create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.	Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a	
State should increase its use of renewable energies in a bid to boost ove EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a proregulation which includes elements of both a quota system and tendering. July 24th, 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensurgand biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the instal capacity of the power plant. The changeable nature of the support system or create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.		new Directive on the Pror	motion and Use of Energy from Renewable Sources.	
EU renewable energy. Latvia's share of the target is to reach 42% renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a proregulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensurgand biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system or create uncertainty for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.		EU governments reached agreement in December, 2008 that each Member		
renewables in gross final energy consumption by 2020. The Cabinet Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a proregulation which includes elements of both a quota system and tendering. July 24th, 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensurgand biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system mandatory process, which awards rights to guaranteed purchase.		State should increase its use of renewable energies in a bid to boost overall		
Ministers of the Republic of Latvia approved the Latvian Renewable Energy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a progulation which includes elements of both a quota system and tendering. July 24th, 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensurgandatory procurement of power generated from wind, small hydro, biomatand biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system material capacity for investors. Larger plants are authorized through tendering process, which awards rights to guaranteed purchase.		EU renewable energy. Latvia's share of the target is to reach 42% of		
Strategy 2006-2013 – which supports this target – in October, 2006. The Latvian government promotes renewable-energy through a pregulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, biomated and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system mandatory process, which awards rights to guaranteed purchase.		renewables in gross final energy consumption by 2020. The Cabinet of		
The Latvian government promotes renewable-energy through a prince regulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensur mandatory procurement of power generated from wind, small hydro, bioma and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system more tendering process, which awards rights to guaranteed purchase.		Ministers of the Republic of Latvia approved the Latvian Renewable Energy		
regulation which includes elements of both a quota system and tendering. July 24 th , 2007, the Latvian Cabinet of Ministers adopted Regulations Electricity Generation from Renewable Energy Sources, which ensure mandatory procurement of power generated from wind, small hydro, bioma and biogas under a feed-in tariff system. The level of the feed-in tariff related to two factors: the end user price of natural gas and the install capacity of the power plant. The changeable nature of the support system makes the companies of the support system and tendering process, which awards rights to guaranteed purchase.		Strategy 2006-2013 – which supports this target – in October, 2006.		
The current EU Directive requires the Commission to start infringement		The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms are the weakest point of the EU's renewable directive.		
Fouquet, Director of the European Renewable Energies Federation, arguthat the lack of binding interim targets or penalty mechanisms are the weak				

Target 100

Country/Region	Lithuania	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels	
	for the period 2008-2012	
Date Announced	2003	
Target Date	2008-2012	
CO ₂ Abatement Potential	25 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standards (Target 101, Target 102).	
Commentary	Lithuania's individual Kyoto Protocol emissions target is to reach an emissions	
	level 8% below 1990 levels for the period 2008-2012. In 2006, emissions were	
	53% lower than base year levels. Projections show that based on existing	
	policies, emissions will increase to a level 30% below base year emissions by	
	2010. Lithuania is therefore expected to significantly overachieve its target.	
	Lithuania has developed a number of policies that support achievement of the	
	target. Feed-in tariffs have been set to encourage renewable energy	
	development and excise tax relief is in place for biofuels. The National Energy	
	Strategy calls for the promotion and purchase of electricity from renewables.	
	Investment subsidies and loans on favorable terms are also made available for	
	sustainable projects by the Lithuanian Environmental Investment Fund.	

Target 101

Lithuania	
Legislation	
National Target: 12% ren	ewable energy sources in the primary supply by 2010
2008	
2010	
1 MT of abatement in 201	2
Renewable Portfolio Stan	dard: Energy
Target 43, Target 44, Tar	get 45 and Target 100
National feed-in tariff; nat	ional subsidies; national public funds.
Incentives: 2	Sovereign Credit Risk: 1
Public Financing: 1	Integrated Plan: 1
Enforcement: 3	Implementation Capacity: 2
Monitoring: 1	Historical Achievement: 1
2	
Lithuania's National Energy Strategy, adopted in January, 2007, sets the	
strategic direction of the country's energy policy.	
In Lithuania, the generation of renewable electricity is subject to price regulation via a feed-in tariff. Energy suppliers are obligated to purchase renewable electricity from producers at a guaranteed price. Lithuania has introduced an annual maximum amount of renewable electricity to be purchased at the guaranteed price. If one year's production of renewable-electricity exceeds the annual maximum quota, this surplus is not entitled to the guaranteed price, but can be sold on the free market or by auction. There are also subsidies in place through the Lithuanian Environmental Investment Fund (LAAIF). There are no penalties for non compliance with the target.	
	Legislation National Target: 12% ren 2008 2010 1 MT of abatement in 201 Renewable Portfolio Stan Target 43, Target 44, Tar National feed-in tariff; nat Incentives: 2 Public Financing: 1 Enforcement: 3 Monitoring: 1 2 Lithuania's National Enestrategic direction of the office of the control

Target 102

Country/Region	Lithuania	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC:	23% of gross final energy consumption from
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 100
Supporting Policies:	National feed-in tariff; nat	ional subsidies; national public funds.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy. L	ithuania's share of the target is to reach 23% of
	renewables in gross final	energy consumption by 2020.
	Lithuania's National Energy Strategy adopted in January, 2007, sets the main strategic priorities of the State energy policy. In Lithuania, the generation of renewable electricity is subject to price regulation via a feed-in tariff. Energy suppliers are obligated to purchase renewable electricity from producers at a guaranteed price. Lithuania has introduced an annual maximum amount of renewable electricity to be purchased at the guaranteed price. If one year's production of renewable- electricity exceeds the annual maximum quota, this surplus is not entitled to the guaranteed price, but can be sold on the free market or by auction. There are also subsidies in place through the Lithuanian Environmental Investment Fund (LAAIF).	
	proceedings against Mer Fouquet, Director of the that the lack of binding in point of the EU's renewab	we requires the Commission to start infringement of the commission to start infringement of the commission to start infringement of the commission of the co

Target 103

Country/Region	Luxembourg
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol: 28% reduction in greenhouse gas emissions below 1990
	levels for the period 2008-2012 under EU burden sharing agreements
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	1 MT of abatement in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standard (Target 104).
Commentary	Luxembourg's share of the overall EU-15's target of an 8% reduction in greenhouse gas emissions under the Kyoto Protocol is to reach an emissions level 28% below 1990 levels for the period 2008-2012. In 2006, emissions were 1% higher than base year levels, and projections show that with existing policies, emissions will increase to a level 3% above base year levels by 2010. It is possible that Luxembourg may achieve its target through emission reductions from additional measures, including use of Kyoto Protocol mechanisms.
	According to an IEA report in March, 2009, Luxembourg has significantly improved its energy policy plan over the past few years. Luxembourg has revised the requirements for energy efficiency in buildings and has ambitious plans for improving energy efficiency in all sectors. The country has also enhanced support for renewables and changed car taxation to reflect CO ₂ emissions.

Target 104

Country/Region	Luxembourg	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 11% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 103
Supporting Policies:	National feed-in tariff; nat	onal grants; national tax exemptions.
Mandates and Incentives		
Investor Risk Assessment	Incentives:1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	On January 23 rd , 2008, the European Commission put forward a proposal for a new Directive on the Promotion and Use of Energy from Renewable Sources. EU governments reached agreement in December, 2008 that each Member State should increase its use of renewable energies in a bid to boost overall EU renewable energy. Luxembourg's share of the target is to reach 11% renewables in gross final energy consumption by 2020. In 2008 the Ministry of the Economy prepared a National Action Plan on Eco-Technologies. The Action Plan set two objectives: To increase the productivity of natural resources, and to develop the eco-technology sector as a means of diversifying Luxembourg's economy. The Action Plan focuses on renewable energies and energy efficiency. There are feed-in tariffs in place for different types of renewable electricity, guaranteed over for 15 years. Tariffs for wind onshore are set at €82.7 per MWh. For solar PV, the tariff is €420 per MWh for smaller panels, and €370 per MWh for bigger panels. For small hydro the tariff is set at €105 per MWh, while it is €85 per MWh for bigger systems. Other support mechanisms include	
	The current EU Directive proceedings against Mer Fouquet, Director of the that the lack of binding integration point of the EU's renew	re requires the Commission to start infringement on the state that fail to fulfil their obligations. Dorte European Renewable Energies Federation, argues the terim targets or penalty mechanisms are the weakest trable directive. The share of renewable energy in ergy supply in 2007 was 3.51%.

Target 105

Country/Region	Malta	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 10% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44 and	Target 45
Supporting Policies:	National subsidies; nation	al public funds; national feed-in tariff.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy.	Malta's share of the target is to reach 10% of
	renewables in gross final energy consumption by 2020.	
	The Promotion of Electricity Produced from Renewable Energy Sources Regulation is the Maltese renewable energy strategy. A framework of measures to support renewable energy in Malta is currently under consideration. Investments in domestic systems generating electricity from wind and solar are eligible for subsidies. The Maltese Ministry of Finance grants investment subsidies for small wind and solar power systems to domestic investors. Domestic solar electricity generation is also eligible for a feed-in tariff.	
	proceedings against Mer Fouquet, Director of the	we requires the Commission to start infringement mber States that fail to fulfil their obligations. Dorte European Renewable Energies Federation, argues terim targets or penalty mechanisms are the weakest ble directive.
	-	commissioned for the European Commission the es in Malta in 2008 was practically 0%, with no enewable energy.

Target 106

Country/Region	Netherlands
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol: 6% reduction in greenhouse gas emissions from 1990 levels
	for the period 2008-2012 under EU burden sharing agreements
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	15 MT of abatement in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standards (Target 107 and Target 108).
Commentary	The Netherlands' share of the overall EU-15's target of an 8% reduction in
	greenhouse gas emissions under the Kyoto Protocol is to reach an emissions
	level 6% below 1990 levels for the period 2008-2012. In 2006, emissions were
	3% lower than base year levels. Projections are that with existing policies,
	emissions will increase to a level 2% above base year levels by 2010.
	However, the target may be achieved through emission reductions through the
	Kyoto Protocol mechanisms, possibly reaching a level 8% below 1990
	emissions.
	The Netherlands does not appear to have a publicly-available detailed plan for
	achieving its emissions target. Historically, there have been some budgetary
	constraints around climate programs, and it is unclear if these have been
	resolved.

Target 107

Country/Region	Netherlands	
Policy Type	Legislation	
Policy Name/Description	National Target: 20% of power generation should come from renewables by	
	2020	
Date Announced	2008	
Target Date	2020	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 106
Supporting Policies:	National subsidy scheme	; national tax incentives; proposed national feed-in
Mandates and Incentives	tariffs.	
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	The government of the Netherlands laid out its renewable target in Clean and Efficient: New Energy for Climate Policy. The program contains a detailed set of measures to promote renewable energy.	
	From 2009 onwards the tax system will be vigorously greened every year. A new subsidy scheme, the Stimulation Scheme Renewable Energy Production (SDE Scheme). Has been put in place. An additional €326 million has recently been made available for the program. In March, 2009, the Dutch cabinet unveiled a proposed feed-in tariff scheme. The scheme would be capped at around 1,000 MW for renewable energy sources. An evaluation is planned for 2010.	
	In June, 2008, the Dutch government announced that it will invest €7.5 billion in energy supply between 2008 and 2011 with around €4 billion going towards renewables. There are no details provided in the plan about how the target will be enforced.	
	The Netherlands sourced 2006 according to the Eu	7.9% of its electricity from renewable sources in ropean Commission.

Target 108

Country/Region	Netherlands	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 14% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	30 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 106
Supporting Policies:	National feed-in tariff; nat	ional grants; national tax exemptions.
Mandates and Incentives		
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	<u>-</u>	e European Commission put forward a proposal for a
	new Directive on the Pror	motion and Use of Energy from Renewable Sources.
		d agreement in December, 2008 that each Member
		use of renewable energies in a bid to boost overall
	EU renewable energy. Netherlands's share of the target is to reach 14%	
	renewables in gross final	energy consumption by 2020.
	From 2009 onwards the tax system will be vigorously greened every year. A new subsidy scheme, the Stimulation Scheme Renewable Energy Production (SDE Scheme). Has been put in place. An additional €326 million has recently been made available for the program. In March, 2009, the Dutch cabinet unveiled a proposed feed-in tariff scheme. The scheme would be capped at around 1,000 MW for renewable energy sources. An evaluation is planned for 2010. In June, 2008, the Dutch government announced that it will invest €7.5 billion in energy supply between 2008 and 2011 with around €4 billion going towards renewables.	
	proceedings against Me Fouquet, Director of the that the lack of binding in point of the EU's renewab	
	2.8% of the Netherlands'	total energy supply in 2009 came from renewables.

Target 109

Country/Region	Poland
Policy Type	International treaty
Policy Name/Description	Kyoto Protocol: 6% reduction in greenhouse gas emissions from 1988 levels
	for the period 2008-2012
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	115 MT of hot air in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standard (Target 110).
Commentary	Poland's individual Kyoto Protocol target is to reach an emissions level 6%
	below 1988 levels for the period 2008-2012. In 2006, emissions were 29%
	lower than base-year level.
	Projections are that with existing policies, emissions will increase to a level
	28% below base level by 2010. Carbon sink activities could reduce emissions
	to 29% below base level. Poland is expected to significantly overachieve its
	Kyoto target on this basis.

Target 110

Country/Region	Poland		
Policy Type	Legislation		
Policy Name/Description	EU Directive 2009/28/EC	: 15% of gross final energy consumption from	
	renewable sources by 2020		
Date Announced	January, 23 rd , 2008		
Target Date	2020		
CO ₂ Abatement Potential	25 MT of abatement in 20	020	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 109	
Supporting Policies:	National subsidies; nation	nal public funds; national green certificates; national	
Mandates and Incentives	tax exemption; national in	vestment grants.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 3	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	On January 23 rd , 2008, the European Commission put forward a proposal for a new Directive on the Promotion and Use of Energy from Renewable Sources. EU governments reached agreement in December, 2008 that each Member State should increase its use of renewable energies in a bid to boost overall EU renewable energy. Poland's share of the target is to reach 15% of renewables in gross final energy consumption by 2020. Poland has developed a policy document called Poland's Energy Policy Until 2030, which sets out strategies to meet the 2020 EU target. Supporting policies for renewables include an obligation for electricity retailers to purchase renewable electricity. Compliance is assured through a green certificate system. These certificates can be traded either on bilateral basis or on the Warsaw Commodity Exchange. A penalty of 130% of the substitution fee is applied in case of failure to comply with this legislation. According to the Polish Environment Minister, Poland will spend \$1.55 billion over the next few years to meet its EU renewable target. The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms are the weakest point of the EU's renewable directive. According to the European Commission, in 2005 Poland met 7.2% of its final energy consumption with renewables.		

Target 111

Country/Region	Portugal
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol:27% maximum increase in greenhouse gas emissions from
	1990 levels for the period 2008-2012 under EU burden sharing agreements
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	10 MT of hot air in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standard (Target 112).
Commentary	Portugal's share of the overall EU-15's target of an 8% reduction in
	greenhouse gas emissions under the Kyoto Protocol is to reach an emissions
	level no higher than 27% above 1990 levels for the period 2008-2012. In 2006,
	emissions were 38% higher than base year levels. Projections show that with
	existing polices, emissions will increase to a level 44% above base year
	emissions by 2010. Carbon sink activities and additional use of Kyoto Protocol
	mechanisms may enable Portugal to constrain growth to 23% above base
	year emissions.
	In May, 2009, Portugal's environment minister announced that the country's
	greenhouse gas emissions in 2008 were 5% above the country's Kyoto target
	compared to 9% in 2007. But he acknowledged that despite this progress,
	Portugal is still likely to miss its target.

Target 112

Country/Region	Portugal	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC	: 31% of gross final energy consumption from
	renewable sources by 2020	
Date Announced	2008	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 111
Supporting Policies:	National feed-in tariff; nat	ional subsidies; national tax incentives; national
Mandates and Incentives	investment incentives.	
Investor Risk Assessment	Incentives:1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pro	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy. Portugal's share of the target is to reach 31%	
	renewables in gross final energy consumption by 2020.	
	In 2005 Portugal adopted a new energy policy, which aims to promote	
	renewable energy, improve efficiency, and reduce external dependency.	
	· ·	censing required for small renewables producers in
	2008. The Portuguese (Government promotes renewable energy principally
	through a guaranteed fe	eed-in tariff scheme for renewable electricity, direct
		ncentives, and investment incentives. Feed-in tariffs
	are used principally for la	rger-scale renewable applications.
		e mandates the Commission to start infringement
	T	ember States that fail to fulfill obligations. Dorte
	Fouquet, Director of the European Renewable Energies Federation argues	
		terim targets or penalty mechanisms are the weakest
	point of the EU's renewab	ole directive.
	The share of renewables	in the gross final energy consumption was 20.5%.

Target 113

Country/Region	Romania	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions from 1989 levels	
	for the period 2008-2012	
Date Announced	2001	
Target Date	2008-2012	
CO ₂ Abatement Potential	120 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standard (Target 114).	
Commentary	Romania's individual Kyoto Protocol emissions target is to reach an emissions	
	level 8% below 1989 levels for the period 2008-2012.	
	In 2006, emissions were 44% lower than the base year levels. Projections	
	show that with existing policies, emissions will increase to a level 31% below	
	base-year emissions by 2010. Romania is expected to significantly	
	overachieve its target.	

Target 114

Country/Region	Romania	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 24% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	10 Mt of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 113
Supporting Policies:	National green certificates	s; national mandatory dispatching.
Mandates and Incentives		, , ,
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 2
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, the European Commission put forward a proposal for a new Directive on the Promotion and Use of Energy from Renewable Sources.	
	•	d agreement in December, 2008 that each Member
	State should increase its use of renewable energies in a bid to boost overall EU renewable energy. Romania's share of the target is to reach 24% renewables in gross final energy consumption by 2020.	
	A National Action Plan on how to achieve the EU target will be submitted to the EU by June, 2010. There are a number of administrative and planning issues in Romania that may delay renewable development, including grid access.	
	The main supporting policies in place for renewables in Renewables include a quota system with tradable green certificates for renewable energy and mandatory dispatching. Legislation to enable increased use of biofuels was passed in December, 2005.	
	The current EU Directive requires the Commission to start infringement proceedings against Member States that fail to fulfil their obligations. Dorte Fouquet, Director of the European Renewable Energies Federation, argues that the lack of binding interim targets or penalty mechanisms are the weakest point of the EU's renewable directive.	
	According to the Europea came from renewables in	an Commission, 17.8% of final energy consumption Romania in 2005.

Target 115

Country/Region	Slovakia	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions from 1990 levels	
	for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	15 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-Trade	
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU	
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target	
	46), EU power sector standard (Target 47), EU aviation sector target standard	
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting	
	standard (Target 54); EU Emissions Trading Scheme; national Renewable	
	Portfolio Standard (Target 116).	
Commentary	Slovakia's individual Kyoto Protocol emissions target is to reach an emissions	
	level 8% below 1990 levels for the period 2008-2012. In 2006, emissions were	
	32% lower than base year levels. Projections show that with existing policies,	
	emissions will increase to a level 18% below base year emissions by 2010,	
	meaning that Slovakia will significantly overachieve its target.	

Target 116

Country/Region	Slovakia	
Policy Type	Legislation	
Policy Name/Description		14% of gross final energy consumption from
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Targ	
Supporting Policies:		tariff; national subsidies; national tax exemptions.
Mandates and Incentives		,,
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 2
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary		e European Commission put forward a proposal for a
	EU governments reached State should increase its EU renewable energy. State should increase its EU renewable energy. State should in gross final of the Republic of Slove energy sources is promounted as the distribution obligation to purchase results been in place since 2. The current EU Directive proceedings against Men Fouquet, Director of the that the lack of binding into point of the EU's renewable state of the EU's	diagreement in December, 2008 that each Member use of renewable energies in a bid to boost overall Slovakia's share of the target is to reach 14% of energy consumption by 2020. Strategy of Higher Utilization of Renewable Energy by the government. According to the European cil, the government does not recognize the need of ement, nor does it support the sector. Akia, the generation of electricity from renewable of the through, among other things, an obligation to pecial prices and use it to compensate for power in grid. Grid operators do not have the general newable electricity. A system of fixed feed-in tariffs 005 although implementation is not yet complete. We requires the Commission to start infringement in the States that fail to fulfil their obligations. Dorte European Renewable Energies Federation, argues terim targets or penalty mechanisms are the weakest ble directive. Bergy consumption came from renewables. However, bles without hydropower is negligible.

Target 117

Country/Region	Slovenia
Policy Type	International treaty
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions from 1986 levels
	for the period 2008-2012
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	1 MT of abatement in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standard (Target 118).
Commentary	Slovenia's individual Kyoto Protocol emissions target is to reach an emissions
	level 8% below 1986 levels for the period 2008-2012. In 2006, emissions were
	1% higher than base-year levels. Projections show that with existing policies,
	emissions will reach a level 7% above base-year emissions.
	Slovenia hopes to achieve its target through emission reductions from
	additional measures, including use of Kyoto Protocol mechanisms and carbon
	sink activities.

Target 118

Country/Region	Slovenia		
Policy Type	Legislation		
Policy Name/Description	EU Directive 2009/28/EC:	EU Directive 2009/28/EC: 25% of gross final energy consumption from	
	renewable sources by 2020		
Date Announced	January, 23 rd , 2008		
Target Date	2020		
CO ₂ Abatement Potential	1 MT of abatement in 202	0	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 117	
Supporting Policies:	National feed-in tariff; nat	ional subsidies; national loans; national Eco-Fund.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1	
Overall Risk Assessment	2		
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a	
	Š		

Target 119

Country/Region	Spain
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol: 15% maximum increase in greenhouse gas emissions from
	1990 levels for the period 2008-2012 under EU burden sharing agreements
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	65 MT of abatement in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standards (Target 120, Target 121 and Target 122).
Commentary	Spain's share of the overall EU-15's target of an 8% reduction in greenhouse
	gas emissions under the Kyoto Protocol is to reach a maximum emissions
	level 15% above 1990 levels for the period 2008-2012. In 2006, emissions
	were 50% higher than base year levels.
	Projections show that with existing policies, emissions will reach a level of
	52% above base-year emissions by 2010. Additional emissions reduction
	activities, including use of Kyoto Protocol mechanisms, could reduce
	emissions to a level 20% above base year emissions, but Spain would still
	miss its Kyoto target.

Target 120

Country/Region	Spain		
Policy Type	Legislation		
Policy Name/Description	EU Renewable Directive	EU Renewable Directive 2001/77/EC: 30% of gross electricity generation	
	should come from renewables by 2010.		
Date Announced	2001		
Target Date	2010		
CO ₂ Abatement Potential	25 MT of abatement in 20	012	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 119	
Supporting Policies:	National Renewable Port	folio Standard (Target 122); national tax relief;	
Mandates and Incentives	national low-interest loans	s; national subsidies; national feed-in tariffs.	
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	In compliance with the	2001 EU Directive on the Promotion of Electricity	
	Produced from Renewab	le Energy Sources, Spain aims to increase its share	
	of electricity to 30% by 20		
	In 2005, Spain's Government published the Renewable Energy Plan 2005-		
	2010, which sets a goal of sourcing 30% of the country's electricity from		
	renewables. The plan also set a separate wind target.		
	In 2006, 17.9% of the country's gross electricity consumption came from		
	renewable sources, according to EUROSTAT. However, the Government has		
	come under criticism recently for the cost of supporting renewables and the		
	political support it has provided to them.		
	In Spain, the generation of electricity from renewable sources is promoted		
		stem operators may choose between a feed-in tariff	
	•	aid on top of market electricity prices. Low-interest	
		for renewable projects, through which up to 80% of	
	reference costs can be fir	nanced.	
	· ·	n tariff laws in 2008, reducing its tariff for solar.	
	-	eed on a 500 MW cap for solar for 2009, and tariff	
		etween €0.32 and €0.34 per kilowatt-hour of electricity	
	=	ms and €0.32 per kWh of electricity from ground-	
		h the instability in the regulatory regime in 2008	
	_	n in the solar market, demand has remained high	
		p solar at 500 MW was finalized according to the	
	Ministry of Industry, Touri	sm and Trade.	

Target 121

Country/Region	Spain		
Policy Type	Legislation		
Policy Name/Description	EU Directive 2009/28/EC:	EU Directive 2009/28/EC: 20% of gross final energy consumption from	
	renewable sources by 2020		
Date Announced	January, 23 rd , 2008		
Target Date	2020		
CO ₂ Abatement Potential	50 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	Target 43, Target 44, Target	get 45 and Target 119	
Supporting Policies:	National tax relief; national	al low-interest loans; national subsidies; national	
Mandates and Incentives	feed-in tariffs.		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	2		
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a	

Target 122

Country/Region	Spain	
Policy Type	Legislation	
Policy Name/Description	Renewable Energy Plan 2005-2010: 20 GW of installed wind capacity by 2010	
Date Announced	2005	
Target Date	2010	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45 and Target 119
Supporting Policies:	National tax relief; national	al low-interest loans; national subsidies; national
Mandates and Incentives	feed-in tariffs.	
Investor Risk Assessment	Incentives:1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	As part of the 2005-2010 Renewable Energy Plan, Spain set a target to have 20 GW of installed wind capacity by 2010.	
	The plan, along with supporting policies and incentives, led to a huge growth in renewable energy in Spain, especially in wind. The country is now third in the world in wind power capacity, with an installed capacity at the end of 2008 of 16.7 GW. The subsidy for wind power consists of the market price of electricity plus 90% of the market price for a period of fifteen years, at which point it drops to 80%. Annually the government-underwritten wind-power contracts are costing	
	around €28.6 billion. The Government has come under criticism recently for the cost of supporting renewables and the political support provided to them.	

Target 123

Country/Region	Sweden
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol: 4% maximum increase in greenhouse gas emissions from 1990 levels for the period 2008-2012 under EU burden sharing agreements.
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	15 MT of hot air in 2012
Policy Category	Emissions target: Cap-and-Trade and Carbon Tax
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target 46), EU power sector standard (Target 47), EU aviation sector target standard (Target 48), EU fuel chain emissions standard (Target 49) and EU lighting standard (Target 54); EU Emissions Trading Scheme; national Renewable Portfolio Standard (Target 126).
Commentary	Sweden's share of the overall EU-15's target of an 8% reduction in greenhouse gas emissions under the Kyoto Protocol is to reach an emissions level no higher than 4% above 1990 levels for the period 2008-2012. In 2006, emissions were 9% lower than base year levels. Projections show that with existing polices, emissions will increase to a level 3% below base-year emissions by 2010. Sweden therefore is expected to overachieve its Kyoto target with existing policies and measures.
	Sweden has a clear plan and is well ahead of schedule for this target. The government has made available SEK 5 billion (\$644 million) for fighting climate change and has two government agencies that are monitoring emissions targets. There is also a Swedish carbon dioxide tax in place set at SEK 1.01 (\$0.13) per kilogram of CO ₂ .
	On June, 16 th , 2009, the Swedish Government approved a long-term energy plan that sets out actions through 2020 to create a low carbon society. Sweden also has a more stringent national emissions target in place.

Target 124

Country/Region	Sweden
Policy Type	Legislation
Policy Name/Description	Swedish Climate Strategy Bill (2001/02:55): 4% reduction in greenhouse gas
	emissions for the period 2008-2012
Date Announced	2001
Target Date	2008-2012
CO ₂ Abatement Potential	No impact on BAU in 2012 and 2020
Policy Category	Emissions target: Cap-and-Trade and Carbon Tax
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standard (Target 126).
Commentary	Sweden set a national target in 2001 to reduce emissions over the 2008-2012
	period by 4% below 1990 levels, a considerably more ambitious target than
	the 4% increase that it is allowed under Kyoto burden-sharing. This reduction
	is expected to be achieved without recourse to either Kyoto Protocol
	mechanisms or carbon sinks.
	Sweden has a clear plan and is well ahead of schedule for this target. The
	government has made available SEK 5 billion (\$644 million) for fighting climate
	change and has two government agencies that are monitoring emissions
	targets. There is also a Swedish carbon dioxide tax in place set at SEK 1.01
	(\$0.13) per kilogram of CO ₂ .
	On June, 16 th , 2009, the Swedish Government approved a long-term energy
	plan that sets out actions through 2020 to create a low carbon society.

Target 125

Country/Region	Sweden
Policy Type	Legislation
Policy Name/Description	Integrated climate and energy policy: 40% reduction in greenhouse gas
	emissions below 1990 levels by 2020 for sectors outside the EU Emissions
	Trading Scheme; become carbon neutral by 2050
Date Announced	March, 2009
Target Date	2020
CO ₂ Abatement Potential	20 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-Trade and Carbon Tax
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standard (Target 126).
Commentary	On June, 16 th , 2009, the Swedish Government passed its long-term energy
	bill. The bill sets a 40% emissions reduction target for sectors outside the EU
	Emissions Trading Scheme by 2020. The Government is presenting three
	action plans for a conversion to a low-carbon society: an action plan for
	renewable energy; an action plan for energy efficiency; and an action plan for
	a fossil-free transport sector.
	The Swadish Society for Nature Concernation has developed a report that
	The Swedish Society for Nature Conservation has developed a report that
	details how Sweden can reduce its greenhouse gas emissions by 40% by
	2020 without using Kyoto Protocol mechanisms.
	To date, emissions have fallen as a result of the SEK 1.01 (\$0.13) per
	kilogram CO ₂ tax.
	Kilogram 002 tax.

Target 126

Country/Region	Sweden	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC: 49% of gross final energy consumption from	
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	10 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 123, Target 124 and Target 125
Supporting Policies:	National green certificates	s; national investment subsidies; national tax
Mandates and Incentives	exemptions	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	· · · · · · · · · · · · · · · · · · ·	e European Commission put forward a proposal for a
	new Directive on the Pro	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
		use of renewable energies in a bid to boost overall
		Sweden's share of the target is to reach 49%
	renewables in gross final	energy consumption by 2020.
	The Swedish energy policy was developed with the aim to create a sustainable energy system where Sweden would eventually obtain all energy from renewable energy sources. The Minister for Sustainable Development has declared that the country will be the first to break the dependence on fossil energy and a plan is in place to make this happen with key mechanisms in place, one of which is to make large-scale state-sponsored investments in renewable energy.	
	promote renewable electricity users to electricity users to electricity. Agency. Measures to fa provision of SEK 30 mi planning in municipalities	able green certificate scheme in 2003 in order to ricity. The Renewable Energy with Green Certificates lary 1, 2007, and shifts the quota obligation from ricity suppliers. The system has been extended to compliance is defined annually by the Swedish Energy cilitate the development of wind power include the Ilion (\$3.9 million) as special financial support for and regions.
	comes from renewable so	

Target 127

Country/Region	United Kingdom
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol: 12.5% reduction in greenhouse gas emissions from 1990
	levels for the period 2008-2012 under EU burden sharing agreements
Date Announced	2002
Target Date	2008-2012
CO ₂ Abatement Potential	40 MT of hot air in 2012
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standards (Target 129, Target 130 and Target 131); national smart
	meter standard (Target 132); national lighting efficiency standard (Target 133);
	regional Renewable Portfolio Standards (Target 135 and Target 136).
Commentary	The UK's share of the overall EU-15's target of an 8% reduction in greenhouse
	gas emissions under the Kyoto Protocol is to reach an emissions level 12.5%
	below 1990 levels for the period 2008-2012. In 2006, emissions were 18%
	below 1990 levels. Projections show that with existing domestic policies,
	emissions will increase to 16% below base year levels by 2010. On that basis,
	the UK is expected to overachieve its Kyoto target.
	Assessing to a LIV Department of Foreign and Oliverte Oher as a good to the
	According to a UK Department of Energy and Climate Change report to the
	United Nations, the UK is on track to double its greenhouse gas reduction
	obligations under Kyoto. The report released in June, 2009, highlights
	supporting policies that are in place, including the Climate Change Act, a comprehensive home energy efficiency program, and ambitious plans for
	renewable energy. The UK is also developing a feed-in tariff for small scale
	renewable projects.
	ienewanie projects.

Target 128

Country/Region	United Kingdom
Policy Type	Legislation
Policy Name/Description	UK Climate Change Act (2008): 34% reduction in greenhouse gas emissions
	below 1990 levels by 2020; 42% reduction if an international deal is agreed in
	Copenhagen
Date Announced	December, 2008
Target Date	2020
CO ₂ Abatement Potential	125 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU
and Incentives	energy efficiency standard (Target 53); EU vehicle efficiency standard (Target
	46), EU power sector standard (Target 47), EU aviation sector target standard
	(Target 48), EU fuel chain emissions standard (Target 49) and EU lighting
	standard (Target 54); EU Emissions Trading Scheme; national Renewable
	Portfolio Standards (Target 129, Target 130 and Target 131); national smart
	meter standard (Target 132); national lighting efficiency standard (Target 133);
	regional Renewable Portfolio Standards (Target 135 and Target 136).
Commentary	The UK's long-term national targets became legally binding on April, 22 nd ,
	2009. A wide range of measures were announced as part of the April, 2009
	budget to support energy and resource efficiency in businesses, public
	buildings and houses, including funding for insulation projects, funding for
	energy efficiency loans, and grants for waste infrastructure, all of which could
	help cut emissions.
	In July 2009, the LIK Government released its Low Carbon Transition Plan
	-
	Low Carbon industrial Strategy.
	Despite the plans, a report from an influential parliamentary committee in
Commentary	regional Renewable Portfolio Standards (Target 135 and Target 136). The UK's long-term national targets became legally binding on April, 22 nd , 2009. A wide range of measures were announced as part of the April, 2009 budget to support energy and resource efficiency in businesses, public buildings and houses, including funding for insulation projects, funding for energy efficiency loans, and grants for waste infrastructure, all of which could

Target 129

Country/Region	United Kingdom	
Policy Type	Legislation	
Policy Name/Description	EU Renewable Directive 2001/77/EC: 10% of gross electricity generation from	
	renewables by 2010	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	15 MT of abatement in 20	012
Policy Category	Renewable Portfolio Stan	ndard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 127 and Target 128
Supporting Policies:	National Renewable Port	folio Standard; national tax exemptions; national
Mandates and Incentives	Climate Change Levy; na	tional subsidies for low-carbon technologies; national
	capital grants; national Er	nvironmental Transformation Fund.
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	In compliance with the 2001 EU Directive on the Promotion of Electricity Produced from Renewable Energy Sources, the UK aims to increase its share of electricity to 10% by 2010. The UK's 2007 Energy White Paper contained a number of proposals designed to speed up the planning system for major infrastructure projects to meet the 2010 renewable target. However, the plan has been criticized for failing to offer substantial new solutions to meet the 2010 target. The Department of Energy and Climate Change oversees the development of the UK's renewable industry and the Office for Renewable Energy Deployment (ORED) has a clear remit to address renewable deployment issues. Despite the dedicated team, the British Wind Energy Association has repeatedly said that the implementation of the target is lagging.	
	The main support mechanism for renewables is the Renewables Obligation (RO), which requires electricity suppliers to source an increasing proportion of their electricity from renewable sources. Compliance with the RO is achieved by procuring Renewable Obligation Certificates (ROCs). A 'banding' structure was introduced to the RO in April, 2009, to ensure support for a more diverse array of technologies, including those which are currently further from commercial deployment. Where suppliers do not have sufficient ROCs to meet their obligations, they are required to make a payment into a fund. A House of Commons 2008 report showed that suppliers failed to meet the RO every year from 2002 to 2007. The UK sourced 5.5% of gross electricity from renewables in 2008.	

Target 130

Country/Region	United Kingdom	
Policy Type	Government aspiration	
Policy Name/Description	20% of gross electricity from renewable sources by 2020	
Date Announced	May, 2007	
Target Date	2020	
CO ₂ Abatement Potential	0 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Target	get 45, Target 127 and Target 128
Supporting Policies:	National Renewable Portf	olio Standard; national tax exemptions; national
Mandates and Incentives	Climate Change Levy; na	tional subsidies for low-carbon technologies; national
	capital grants; national Er	nvironmental Transformation Fund.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	In May, 2007, the UK Go	overnment released its Energy White Paper with an
	aspiration for 20% renew	able electricity by 2020. The Renewables Obligation
	(RO) is the main mechani	sm to support the aspiration.
	The Department of Energ	y and Climate Change oversees the development of
	the UK's renewable indus	try and the Office for Renewable Energy Deployment
	(ORED) has a clear remit to address renewable deployment issues. The	
	Government intends to put in place financial support for renewable electricity	
	and heat worth around £3	30 billion between 2009 and 2020. Additionally, £11.2
	million in funding will be r	eleased to speed up the current planning processes.
	And in the April, 2009, I	budget the Government announced £525 million in
	support for offshore wind.	
	The RO requires electric	city suppliers to source an increasing proportion of
	their electricity from rene	wable sources. Compliance with the RO is achieved
	by procuring Renewable	Obligation Certificates (ROCs). A 'banding' structure
	was introduced to the RC	o in April, 2009, to ensure support for a more diverse
	array of technologies,	including those which are currently further from
	commercial deployment.	A consultation on Renewable Electricity Financial
	Incentives is running from	15 July, 2009 to 15 October, 2009 seeking views on
	two mechanisms to prov	vide financial incentives for the generation of low-
	carbon and renewable e	lectricity, the RO and feed-In tariffs. Feed-in tariffs
	may be used to provide	guaranteed payments to individuals, business and
	communities for renewable	le power generation from 2010.
	· ·	renewable sources in the UK in 2008 represented
	5.5% of gross electricity c	onsumption, compared to 4.9% in 2007.

Target 131

Country/Region	United Kingdom	
Policy Type	Legislation	
Policy Name/Description	EU Directive 2009/28/EC	15% of gross final energy consumption from
	renewable sources by 2020	
Date Announced	January, 23 rd , 2008	
Target Date	2020	
CO ₂ Abatement Potential	105 MT of abatement in 2	020
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 127 and, Target 128
Supporting Policies:	Renewables Obligation; to	ax exemptions; Climate Change Levy; national feed-
Mandates and Incentives	in tariff; subsidies; capital	grants; Environmental Transformation Fund.
Investor Risk Assessment	Incentives:2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	On January 23 rd , 2008, th	e European Commission put forward a proposal for a
	new Directive on the Pro	motion and Use of Energy from Renewable Sources.
	EU governments reached	d agreement in December, 2008 that each Member
	State should increase its	use of renewable energies in a bid to boost overall
	EU renewable energy.	The UK's share of the target is to reach 15%
	renewables in gross final energy consumption by 2020.	
	The UK announced its Low Carbon Transition plan in July, 2009, setting out	
	how the country will meet a cut in emissions and meet renewable targets via	
	the Renewable Energy Strategy.	
	The Department of Energy and Climate Change oversees the development of	
		try and the Office for Renewable Energy Deployment
		mit to address renewable deployment issues. The
	Infrastructure Planning C	commission was set up in December, 2008, to fast
	track large renewable pro	jects and eliminate planning delays that have caused
	set-backs to UK renewal	ble development. The Commission will be ready to
	handle proposals from 20	10.
		vable Electricity Financial Incentives is running from
	-	tober, 2009 seeking views on two mechanisms to
	1 ⁻	es for the generation of low-carbon and renewable
	-	es Obligation and feed-In tariffs. Feed-in tariffs may
		paranteed payments to individuals, business and
	communities for renewab	le power generation from 2010.
	00/ -f	- farm and soughter in 2000
	2% of energy needs came	e from renewables in 2009.

Target 132

Country/Region	United Kingdom	
Policy Type	Proposed legislation	
Policy Name/Description	All homes to be fitted with smart meters by 2020	
Date Announced	2008	
Target Date	2020	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 127 and Target 128
Supporting Policies:	N/A	
Mandates and Incentives		
Investor Risk Assessment	Incentives:3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 2
Overall Risk Assessment	3	
Supporting Commentary	The UK government announced a plan in May, 2009, that would ensure that every household in the country is fitted with a smart meter by 2020. The plans form part of the government's climate strategy. The Department of Energy and Climate Change launched a consultation in May, 2009, on how the smart meters should be rolled out. Three plans are under consideration for the nationwide roll-out of the meters. The first sees utilities take on all responsibilities, including supply and installation. The second has energy suppliers responsible for the meters, but with a new third party body handling energy data. A third scenario envisages setting up a new organization to oversee both the meters and data management. It is likely that the Government will award a contract to create a centralized communications system for gathering data for smart meters. Energy suppliers would then be able to choose their own meter technology and roll out smart meters to their customers at their own pace. It is looking likely that the Government will award a contract to create a centralized communications	
	and consumers. Latest goost £9 billion. The gove on how to pay for the scheme Smart meter trials are companies such as Britis supply smart meters as part of the scheme such as Britis supply smart meters as part of the scheme such as Britis supply smart meters as part of the scheme such as part of the scheme such as Britis supply smart meters as part of the scheme such as	of the project will be split between energy providers government figures indicate that implementation may rnment is still in consultation as of September, 2009, iteme. Currently underway around the UK through energy sh Gas. Smaller suppliers such as First Utility already part of their standard package. The first smart meters inment's new plans are expected to arrive in 2012.

Target 133

Country/Region	United Kingdom	
Policy Type	Voluntary	
Policy Name/Description	Phase out incandescent light bulbs by 2012	
Date Announced	2007	
Target Date	2012	
CO ₂ Abatement Potential	5 MT of abatement in 201	12
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 127 and Target 128
Supporting Policies:	National public funding.	
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	Monitoring: 1 Historical Achievement: 1	

Target 134

Country/Region	United Kingdom: Scotland
Policy Type	Legislation
Policy Name/Description	Climate Change (Scotland) Act 2009: 80% reduction in greenhouse gas emissions below 1990 levels by 2050, including aviation and shipping
Date Announced	December, 2008
Target Date	2020
CO ₂ Abatement Potential	Not modeled
Policy Category	Emissions target: Cap-and-Trade
Supporting Policies: Mandates and Incentives	EU Renewable Portfolio Standards (Target 50, Target 51 and Target 52); EU energy efficiency standard (Target 53); vehicle efficiency standard (Target 46), EU power sector standard (Target 47), EU aviation sector target standard (Target 48), EU fuel chain emissions standard (Target 49) and EU lighting standard (Target 54); EU Emissions Trading Scheme; national Renewable Portfolio Standards (Target 129, Target 130 and Target 131); national smart meter standard (Target 132); national lighting efficiency standard (Target 133); regional Renewable Portfolio Standard (Target 135).
Commentary	In December, 2008 the Scottish government published the Climate Change Act including a target to reduce greenhouse gas emissions by 80% below 1990 levels by 2050. This Act was passed in June, 2009. The Act contains some radical measures which will deliver the required emissions cuts. For example, on energy efficiency of buildings, the Scottish Act sets a European precedent in giving Ministers powers to require building owners to carry out the recommendations contained in a building's energy performance certificate.
	Scotland's Climate Challenge Fund, launched in June, 2008, is providing £27.4 million over three years to support communities across Scotland taking action to cut their carbon emissions. According to the Scottish Government, greenhouse gas emissions fell by 6.8% between 2006 and 2007 and by 18.7% between the 1990 and 2007.

Target 135

Country/Region	United Kingdom: Scotla	nd
Policy Type	Legislation	
Policy Name/Description	Climate Change Bill: 31% of gross electricity consumption from renewables by	
	2011 and 50% by 2020	
Date Announced	2007	
Target Date	2011 and 2020	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 127, Target 128 and Target 134
Supporting Policies:	Regional public funding; r	egional Renewable Portfolio Standard; regional feed-
Mandates and Incentives	in tariff.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	roadmap to meet the Sot targets rely on substar infrastructure. There are a supply chain, R&D, plann. The main supporting me Renewables Obligation (severy electricity supplier renewable sources. With technological developmer England on further chang EU 20% renewable targe mechanism for micro-gen. Scotland's government the providing over £1 million the next 3 years. In Augu would significantly increase. The Scottish government progress against targets energy development. The	echanism for renewable energy in Scotland is the Scotland), (ROS), which places a legal obligation on in Scotland to supply electricity generated from banding now in place, in order to give incentives for in the renewable industry, Scotland is working with es required to align the program with demands of the tas well as on the emerging details of a feed-in tariff

Target 136

Country/Region	United Kingdom: Wales	
Policy Type	Government aspiration	
Policy Name/Description	Source 100% of electricity from renewables by 2025	
Date Announced	2008	
Target Date	2025	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 43, Target 44, Tar	get 45, Target 127 and Target 128
Supporting Policies:	Regional public funding; r	national Renewable Portfolio Standard; national feed-
Mandates and Incentives	in tariff.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	Wales launched its sustainable development scheme, One Wales: One Planet, on May, 22 nd , 2009. The plan sets a goal to reach 100% renewable electricity by 2025. The main supporting mechanism is the UK Renewables Obligation (RO), which requires electricity suppliers in Wales to source an increasing proportion of their electricity from renewable sources and gain Renewable Obligation Certificates (ROCs), or pay a buy-out price for the ROCs. A banding structure was introduced to the RO in April, 2009, to ensure support for a more diverse array of technologies, including those that are currently further from commercial deployment. Feed-in tariffs are currently being considered as part of a consultation.	
	developing community increase support for small. The Welsh Assembly over the Sustainable Developing the Sustainable Developing Forum of Wales. Wales was granted permin 2014, will be the secondits 15% renewable target.	on renewable energy projects. The region is also renewables schemes with European funding to I-scale renewable energy in the home. Persees implementation of the renewable target under ment Scheme. The Assembly will work closely with ment Commission and the Sustainable Development dission for a 750 MW wind farm, which, when finished d largest in the world. This will also help the UK meet by 2020. Despite this, Friends of the Earth have said 20% electricity from renewables by 2025 is ambitious.

Non-European Union Member States

Target 137

Country/Region	Belarus
Policy Type	International Treaty
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels for the period 2008-2012
Date Announced	2005
Target Date	2008-2012
CO ₂ Abatement Potential	32 MT of hot air in 2012
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates	N/A
and Incentives	
Commentary	Belarus ratified the Kyoto Protocol in August, 2005, following a decree signed by the country's President. Under the agreement, Belarus pledged to reduce greenhouse gas emissions by 8% below 1990 levels for the period 2008-2012. Belarus was not a party to the UNFCCC when the Kyoto Protocol was adopted and, hence, its greenhouse gas reduction target was not assigned at the same time as the Annex B countries targets were. Belarus submitted a request to amend Annex B to the Kyoto Protocol to the UNFCCC in March, 2006, and the amendment, with an emission reduction target for Belarus, was adopted in November, 2006. As a result of substantial deindustrialization after the fall of the Soviet Union, Belarus's emissions dropped considerably. According to the Ministry of Foreign Affairs, the country emitted 60-65 million tons of greenhouse gas emissions at the time it ratified Kyoto, and therefore, it has about 50-55 million tons of "hot air", or extra AAUs, per year.

Target 138

Croatia	
International treaty	
Kyoto Protocol: 5% reduction in greenhouse gas emissions below 1990 levels	
for the period 2008-2012	
2007	
2008-2012	
1 MT of abatement in 2012	
Emissions target: No carbon price	
National combined heat and power regulations; national Environmental	
Protection and Energy Efficiency Fund; national tax incentives for renewable	
equipment; national feed-in tariffs.	
Croatia has an individual Kyoto target to reach a level of emissions 5% below	
1990 levels for the period 2008-2012. In 2006, emissions were 14% lower than	
base year levels. Projections developed before the economic downturn show	
that with existing policies and measures, emissions will rise to 11% below	
base year levels by 2010. With additional measures, including use of the	
Kyoto Protocol mechanisms, Croatia could reduce emissions to 13% below	
base year levels.	
Croatia has developed a detailed set of policies to underpin its emissions	
target. The country's Energy Sector Development Strategy was adopted by	
the Croatian Parliament in March, 2002, and it sets out strategy for a period of	
10 years. It calls for improvements in energy efficiency, diversification of	
energy-generating products and sources, utilization of renewable sources of	
energy, and safe energy provision and supply.	
The development of renewable energy supply is supported by the	
Environmental Protection and Energy Efficiency Fund. The fund provides	
interest free loans, subsidies, and grants. Personal tax deductions are allowed	
for investments in solar equipment. And in August, 2007, Croatia instituted a	
feed-in tariff system, which requires the Croatian Electricity Operator to pay a	
fixed premium price for electricity produced from renewable sources or	
cogeneration units fueled by natural gas.	

Target 139

Country/Region	Iceland	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 10% maximum increase in greenhouse gas emissions from	
	1990 levels for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	1 MT of abatement in 2012	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	EU Emissions Trading Scheme (EU-ETS), national tax incentives.	
and Incentives		
Commentary	Iceland has an individual Kyoto Protocol emissions target to reach a maximum level of emissions 10% above 1990 levels for the period 2008-2012.	
	In 2006, emissions were 26% higher than 1990 levels. Projections developed before the financial downturn hit Iceland show that with existing polices emissions will decrease to a level 4% above base year level during 2008-2012. Since these were developed, Iceland's economy has been seriously hit by the financial downturn. Paul Thomsen, IMF Mission Chief for Iceland and Deputy Director in the European Department has noted that "the economy is facing a relatively deep recession of 10 percent of GDP." As one of the hardest hit countries in the downturn, Iceland's emissions are likely to drop as output is curtailed and investments are postponed.	
	Iceland has a Climate Policy in place, formulated by the Ministry for the Environment. Iceland joined the European Union Emissions Trading Scheme (EU-ETS) in November, 2008, although as of May, 2009, no installations in Iceland are covered by the scheme. Iceland is a founding member of the International Partnership for Hydrogen Economy and participates in the EU Hydrogen and Fuel Cells Technology Platform. Tariffs on non-polluting and low-polluting vehicles have been lowered, and the tax system has been altered, to make small diesel-powered cars more competitive. Over 70% of Iceland's energy comes from renewable resources (hydro and geothermal). Fossil fuels are still used in transport on land, sea and in the air. Emissions from fishing fleet constitute a fourth of total emissions in Iceland. Encouraging energy efficiency in the fishing industry is a key component of the country's climate change policy.	

Target 140

Country/Region	Iceland
Policy Type	Legislation
Policy Name/Description	50-70% reduction in greenhouse gas emissions below 1990 levels by 2050
Date Announced	2007
Target Date	2050
CO ₂ Abatement Potential	1 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	EU Emissions Trading Scheme (EU-ETS), national tax incentives.
and Incentives	
Commentary	Iceland has a Climate Policy in place, formulated by the Ministry for the Environment. Iceland joined the European Union Emissions Trading Scheme (EU-ETS) in November, 2008, although as of May, 2009, no installations in Iceland are covered by the scheme. Iceland is a founding member of the International Partnership for Hydrogen Economy and participates in the EU Hydrogen and Fuel Cells Technology Platform. Tariffs on non-polluting and low-polluting vehicles have been lowered, and the tax system has been altered, to make small diesel-powered cars more competitive. Over 70% of Iceland's energy comes from renewable resources (hydro and geothermal). Fossil fuels are still used in transport on land, sea and in the air. Emissions from fishing fleet constitute a fourth of total emissions in Iceland. Encouraging energy efficiency in the fishing industry is a key component of the country's climate change policy.

Target 141

Country/Region	Liechtenstein	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels	
	for the period 2008-2012	
Date Announced	2004	
Target Date	2008-2012	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	EU Emissions Trading Scheme, national tax incentives, national Climate	
and Incentives	Protection Act.	
Commentary	Liechtenstein's individual Kyoto Protocol emissions target is to reach a level of	
	emissions 8% below 1990 levels for the period 2008-2012. In 2006, emissions	
	were 19% higher than base year levels. Projections developed before the	
	economic downturn show that with existing policies, emissions will reach a	
	level 4% above base year levels by 2010. Liechtenstein hopes that with the	
	use of Kyoto mechanisms, a level 14% below base-year levels can be	
	achieved.	
	Liechtenstein joined the EU Emissions Trading Scheme in 2008, and currently	
	has two installations covered under the scheme. To implement its obligations	
	under Kyoto, the country has created a Climate Protection Act and embedded	
	its climate policy in its individual sectoral policies. The goal of the new law is to	
	reduce greenhouse gas emissions through the application of market	
	instruments.	

Target 142

Country/Region	Monaco	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels for the period 2008-2012	
Date Announced	2006	
Target Date	2008-2012	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	N/A	
and Incentives		
Commentary	Monaco ratified the Kyoto Protocol in February, 2006, committing to an 8% reduction in greenhouse gas emissions below 1990 levels for the period 2008-2012.	
	For the commitment period 2008-2012 of the Protocol, Monaco plans to obtain carbon credits from green investments in developing countries.	
	Since 2000, greenhouse gas emissions registered at the national level have fallen continuously. In 2006, the last year for which data is available, emissions were 13% below 1990 levels, putting Monaco on track to meet its Kyoto commitment.	

Target 143

Country/Region	Norway	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 1% maximum increase in greenhouse gas emissions from	
	1990 levels for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	1 MT of abatement in 2012	
Policy Category	Emissions target: Cap-and-trade and Carbon tax	
Supporting Policies: Mandates	EU Emissions Trading Scheme; national carbon tax; national Fund for	
and Incentives	Renewable Energy and Energy Efficiency; national tax incentives.	
Commentary	Norway's individual Kyoto Protocol target is to reach a maximum level of emissions 1% above 1990 levels for the period 2008-2012. In 2006, emissions were 8% higher than base year level. Projections developed before the economic downturn show that with existing policies, emissions will remain at a level 8% higher than base year by 2010. Norway hopes to use Kyoto Protocol mechanisms and carbon sinks to achieve its 1% above base-year emissions target.	
	Norway's Ministry of the Environment is responsible for climate policy, and has developed a comprehensive building strategy and action plan on renewable energy. Norway joined the European Union Emissions Trading Scheme (EU-ETS) in 2008. Presently, about 70% of Norwegian emissions are either covered by the emissions trading scheme or subject to a carbon tax, introduced in the 1990s.	

Target 144

Country/Region	Norway
Policy Type	Government aspiration
Policy Name/Description	30% reduction in greenhouse gas emissions below 1990 levels by 2020
Date Announced	January, 2008
Target Date	2020
CO ₂ Abatement Potential	15 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade and Carbon tax
Supporting Policies: Mandates	EU Emissions Trading Scheme; national carbon tax; national Fund for
and Incentives	Renewable Energy and Energy Efficiency; national tax incentives.
Commentary	Norway's 2007 White Paper on Climate Change proposed that the country should adopt the world's most ambitious climate targets, including a reduction of greenhouse gas emissions by the equivalent of 30 percent of its own 1990 emissions by 2020. While the 2020 target has since been surpassed by the United Kingdom's commitment, Norway's pledge was the most ambitious emissions reduction program in force when it was adopted.
	Norway's Ministry of the Environment is responsible for climate policy. Research and technological development are major priority areas in the government's climate policy. The White Paper sets out a number of proposed measures for reducing greenhouse gas emissions in Norway. These include prohibiting landfilling of biodegradable waste, prohibiting the installation of oil-fired boilers in new buildings, and increasing the capital of the fund for the promotion of energy efficiency measures and renewable energy by up to NOK 10 billion (\$154 million) by 2012.
	Norway joined the European Union Emissions Trading Scheme (EU-ETS) in 2008. Presently, about 70% of Norwegian emissions are either covered by the emissions trading scheme or subject to a carbon tax, introduced in the 1990s.

Target 145

Country/Region	Norway
Policy Type	Government aspiration
Policy Name/Description	CO ₂ neutral by 2030 (in the context of a global agreement)
Date Announced	January, 2008
Target Date	2020
CO ₂ Abatement Potential	Not modeled
Policy Category	Emissions target: Cap-and-trade and Carbon tax
Supporting Policies: Mandates	EU Emissions Trading Scheme; national carbon tax; national Fund for
and Incentives	Renewable Energy and Energy Efficiency; national tax incentives.
Commentary	Norway's 2007 White Paper on Climate Change proposed that Norway should have the world's most ambitious climate targets including a target to become CO ₂ neutral by 2030 in the context of a global agreement. Norway's Ministry of the Environment is responsible for climate policy. Research and technological development are major priority areas in the government's climate policy. The White Paper sets out a number of proposed measures for reducing greenhouse gas emissions in Norway. These include prohibiting landfilling of biodegradable waste, prohibiting the installation of oil-fired boilers in new buildings, and increasing the capital of the fund for the promotion of energy efficiency measures and renewable energy by up to NOK 10 billion (\$1.535 billion) by 2012.
	Norway joined the European Union Emissions Trading Scheme (EU-ETS) in 2008. Presently, about 70% of Norwegian emissions are either covered by the emissions trading scheme or subject to a carbon tax, introduced in the 1990s. According to <i>The New York Times</i> , "the feat is being achieved largely by sleight-of-hand accounting and huge donations to environmental projects abroad, rather than meaningful emissions reductions that might be replicated elsewhere."

Target 146

Country/Region	Russia		
Policy Type	International Treaty		
Policy Name/Description	Kyoto Protocol: 0% change in greenhouse gas emissions from 1990 levels for		
Data Associated	the period 2008-2012		
Date Announced	October, 2004		
Target Date	2008-2012		
CO ₂ Abatement Potential	1040 MT of hot air in 2012		
Policy Category	Emissions target: No carbon price		
Supporting Policies: Mandates	National emissions target (Target 147); national Renewable Portfolio Standard		
and Incentives	(Target 148).		
Commentary	Russia's lower house of Parliament ratified the Kyoto Protocol in October, 2004.		
	The Russian Ministry of Energy is tasked with taking a large number of measures in support of this target, including: deciding on pricing for electricity produced from renewables; attracting private investment for new and existing projects; engaging with domestic industrial sectors and services; improving reporting on the use of renewables in electricity generation; and raising public awareness about renewable energy sources.		
	According to the Russian Regional Environmental Center, climate change is not among the top Russian policy priorities. Climate change and sustainable energy issues are split up between 9 Ministries and Agencies, with a low level of co-operation. There are weak signals from federal to regional and local authorities. And enormous oil and gas resources slow down the transfer to low-carbon and renewable sources of energy.		
	According to data submitted to the UN, emissions of greenhouse gases rose by 0.3% in 2007 to the highest levels since 1994. This is still about 34% below 1990 levels, due to substantial deindustrialization after the fall of the Soviet Union.		

Target 147

Country/Region	Russia
Policy Type	Executive Order
Policy Name/Description	40% reduction in energy intensity per unit of GDP from 2007 levels by 2020
Date Announced	June, 2008
Target Date	2020
CO ₂ Abatement Potential	455 MT of abatement in 2020
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates and Incentives	National Renewable Portfolio Standard (Target 148).
Commentary	On June, 4 th , 2008, Russian President Dmitry Medvedev signed a decree to cut Gross Domestic Product (GDP) energy intensity by 40% by 2020.
	The decree set out the following measures, which will be adopted between 2008-2010: introducing efficiency standards in energy-intensive sectors; strict restrictions on further use of obsolete technologies; labeling of power-intensive goods; incentives for businesses that undertake efficiency improvements; and public sector R&D in the area of energy-saving technologies.
	According to the Russian Regional Environmental Center, climate change is not among the top Russian policy priorities. Climate change and sustainable energy issues are split up between 9 Ministries and Agencies, with a low level of co-operation. There are weak signals from federal to regional and local authorities. And enormous oil and gas resources slow down the transfer to low-carbon and renewable sources of energy.
	According to data submitted to the UN, emissions of greenhouse gases rose by 0.3% in 2007 to the highest levels since 1994. This is still about 34% below 1990 levels, due to substantial deindustrialization after the fall of the Soviet Union.

Target 148

Country/Region	Russia		
Policy Type	Executive Order		
Policy Name/Description	20% of power to come from renewables including hydropower (4.5% excluding		
	hydropower) by 2020		
Date Announced	January, 2009		
Target Date	2020		
CO ₂ Abatement Potential	35 MT of abatement in 2020		
Policy Category	Renewable Portfolio Standard: Electricity		
Related Emissions Target(s)	Target 146 and Target 14	17	
Supporting Policies:	National public funding; N	Multilateral funding.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	The Executive Order sets several specific targets for expanding the share of		
	~ -	tricity generation. The Ministry of Energy is in charge	
	of developing a plan to ac	chieve the target, but has not yet released a plan.	
	B		
	-	ds in research and energy generation infrastructure,	
		of projects across Russia that promote biofuels, wind	
		er, water power and solar power. However there are	
	-	nancing issues, artificially cheap mainstream sources	
		perception that Russia has so much oil and gas that	
	renewable energy does not need to be a focus.		
	The Russian Ministry of	Energy has been tasked with deciding on pricing for	
	_	renewables, attracting private investment for new	
	and existing projects, engaging domestic industrial sectors and services,		
	*	porting on the use of renewables in electricity	
		public awareness about renewable energy sources.	
	Execution of these tasks is not yet at an advanced stage.		
	Less than 1% of power came from renewables in 2008, making the target		
	seem ambitious.		

Target 149

Country/Region	Switzerland	
Policy Type	International Treaty	
Policy Name/Description	Kyoto Protocol: 8% reduction in greenhouse gas emissions below 1990 levels	
	for the period 2008-2012	
Date Announced	2003	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of hot air in 2012	
Policy Category	Emissions target: Cap-and-trade and Carbon tax	
Supporting Policies: Mandates	Voluntary agreements for emission cuts; national carbon tax; national	
and Incentives	Renewable Portfolio Standard (Target 151).	
Commentary	Switzerland's individual Kyoto Protocol target is to reach a level of emissions	
	8% below 1990 levels for the period 2008-2012.	
	In 2006, emissions were 1% higher than base year levels. Projections developed before the economic downturn show that with existing policies, emissions will decrease to a level 3% below base year levels for the period 2008-2012. Kyoto mechanisms could reduce this further to 6% below. From July, 2001, the Swiss business community embarked on the process of concluding voluntary agreements for greenhouse gas emission reductions under the CO ₂ Act. Under the legislation, the Federal Council decided to introduce a CO ₂ tax of CHF 35/ton (\$31.16/ton) of CO ₂ on process and heating fuels.	
	In 2008, Switzerland announced that it would set up an emissions trading scheme for companies that would like to be exempted from the domestic carbon tax. Under the scheme, companies would have the possibility of using Kyoto Protocol mechanisms for compliance.	

Target 150

Country/Region	Switzerland		
Policy Type	Legislation		
Policy Name/Description	Reduce fossil fuel consumption by 20% by 2020		
Date Announced	2003		
Target Date	2020		
CO ₂ Abatement Potential	Not modeled		
Policy Category	Emissions target: Cap-and-trade and Carbon tax		
Supporting Policies: Mandates	Voluntary agreements for emission cuts; national carbon tax; national		
and Incentives	Renewable Portfolio Standard (Target 151).		
Commentary	The specific targets of the Swiss Energy Program and Action Plan are to: reduce consumption of fossil fuels by about 10%; cap electricity demand growth at 5%; increase the use of renewable energies in heat production by about 3%; increase the use of renewable energies in electricity production by 1%; and reduce fossil fuel consumption by 20% all by 2020. In order to implement the strategy, the Federal Department of the Environment, Transport, Energy and Communications prepared draft action plans for energy efficiency and the use of renewable energy, which were approved by the Federal Council on 20 February 2008. The action plan for increasing energy efficiency encompasses 15 measures in the areas of buildings, mobility, appliances, training and further education, research and technology transfer. The action plan for promoting renewable energy encompasses 7 measures including promoting renewable heat production, biomass energy, hydropower, research and technology transfer, training and further education.		
	From July, 2001, the Swiss business community embarked on the process of concluding voluntary agreements for greenhouse gas emission reductions under the CO ₂ Act. Under the legislation, the Federal Council decided to introduce a CO ₂ tax of CHF 35/ton (\$31.16/ton) of CO ₂ on process and heating fuels.		
	In 2008, Switzerland announced that it would set up an emissions trading scheme for companies that would like to be exempted from the domestic carbon tax. Under the scheme, companies would have the possibility of using Kyoto Protocol mechanisms for compliance.		

Target 151

Country/Region	Switzerland		
Policy Type	Legislation		
Policy Name/Description	Action Plan on Renewables: 24% renewable energy in total primary energy		
	supply by 2020		
Date Announced	March, 2008		
Target Date	2020		
CO ₂ Abatement Potential	1 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Star	ndard: Energy	
Related Emissions Target(s)	Target 149 and Target 15	50	
Supporting Policies:	Feed-in tariffs; Public fun	ding; Tax exemptions.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1	
Overall Risk Assessment	2		
Supporting Commentary	The Action Plan for Renewable Heat Sources to raise the share of Renewable Energy in Total Primary Energy Supply from 16.2% to 24% by 2020 was announced in March, 2008. The plan focuses on heat production and streamlining hydropower regulation. This plan complements the Swiss Energy Program that aims to promote energy efficiency and the use of renewable energy.		
	There is an aggressive system of feed-in tariffs in place in Switzerland for solar, wind, biomass, geothermal, and hydropower, which are differentiated by size, technology and application. In July, 2008, the Swiss tariffs were revised, and are now set at among the highest levels in the world. Other supporting policies include incentives for heat pumps, pellets, solar thermal, and admixture of biogas in gas grid. A biomass strategy is in place, and government funding is provided for information, training and R&D activities. As of July, 2008, all biofuels are exempt from the mineral oil tax. The strength of the Swiss Energy Program lies in the close links between federal government, the cantons, municipalities, partners from trade, environmental, and consumer organizations. Currently, renewables have a 16.2% share of the Swiss energy mix.		

Target 152

Country/Region	Turkey		
Policy Type	Government aspiration		
Policy Name/Description	10% wind and solar in the installed energy mix by 2020		
Date Announced	2008	-	
Target Date	2020		
CO ₂ Abatement Potential	35 MT of abatement in 20	020	
Policy Category	Renewable Portfolio Stan	ndard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National feed-in tariffs; na	ational Renewable Energy Law; multilateral financing.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary			

Target 153

Country/Region	Ukraine		
Policy Type	International Treaty		
Policy Name/Description	Kyoto Protocol: 0% change in greenhouse gas emissions from 1990 levels for the period 2008-2012		
Date Announced	2004		
Target Date	2008-2012		
CO ₂ Abatement Potential	470 MT of hot air in 2012		
Policy Category	Emissions target: No carbon price		
Supporting Policies: Mandates	N/A		
and Incentives			
Commentary	The Ukraine ratified the Kyoto Protocol in April, 2004, committing to a 0% change in emissions from 1990 levels for the period 2008-2012.		
	The Ukrainian government recently announced its intention to sell US \$3.5 billion worth of carbon credits to buyers in Japan, Switzerland and New Zealand.		
	Ukraine's most recent greenhouse gas inventory showed that in 2004, greenhouse gas emissions stood at only 45% of their 1990 levels, and basic forecasts indicate that in 2012, emissions will not exceed 1990 levels. Current estimates indicate that the Ukraine has over 1 billion Assigned Amount Units (AAUs) that could be sold in the Kyoto Protocol's first commitment period.		

Latin America

Target 154

Country/Region	Argentina		
Policy Type	Legislation		
Policy Name/Description	8% of electricity from renewable sources by 2016 (excluding large hydro)		
Date Announced	January, 2007		
Target Date	2016		
CO ₂ Abatement Potential	5 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Star	ndard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National tax exemptions;	national feed-in tariffs.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	set an 8% renewable to progress report issued an is continuing to work in order in the second progress of the seco	ional Renewable Policy in January, 2007. The policy arget. According to a Washington Action Program to the end of February, 2009, Argentina's government of the end of the	

Target 155

Country/Region	Brazil	
Policy Type	Legislation	
Policy Name/Description	Maintain a share of >80% power generation from renewables through 2030	
Date Announced	2008	
Target Date	2030	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	N/A	
Supporting Policies:	National Renewable Port	folio Standard (Target 156); national feed-in tariffs;
Mandates and Incentives	national subsidies; nation	al public funding; national PROINFA program.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 2
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary		

Target 156

Brazil	
Legislation	
Obtain 7,000 MW of power from non-hydro renewables between 2008 and	
2010	
2008	
2010	
1 MT of abatement in 201	12 and 1 MT of abatement in 2020
Renewable Portfolio Stan	ndard: Electricity
N/A	
National feed-in tariffs; na	ational subsidies; national public funding; national
PROINFA program.	
Incentives: 2	Sovereign Credit Risk: 2
Public Financing: 2	Integrated Plan: 1
Enforcement: 3	Implementation Capacity: 1
Monitoring: 1	Historical Achievement: 3
2	
Brazil released a new end	ergy plan in 2008, titled The Brazilian National Energy
Plan for 2008-2017. Th	e plan establishes a target to reduce reliance on
hydropower and increase	non-hydroelectric renewable generation.
Brazil has municipal laws governing solar energy that require the installation of	
solar heating in new buildings.	
Increases in Brazil's ele	ectricity generation from non-hydropower renewable
	een supported primarily by the federal Program of
•	Electricity Sources (PROINFA), which was enacted
in 2001. Phase I of the p	program guaranteed power purchase agreements for
3,300 MW of biomass, wi	nd, and small hydro capacity through 2008. A second
phase was intended to in	ncrease non-hydroelectric generation to 10% of total
electricity generation by	2027. Until a replacement policy is put in place,
growth in non-hydroelect	ric renewable generation is expected to be relatively
slow according to the IEA	A. Importantly, the current government favors moving
away from feed-in tariffs to a tendering scheme.	
Brazil currently produces	87% of electricity from hydro sources, which cannot
count towards this target. The government is hosting its first auction for	
projects in the renewable energy sector on November 25 th , 2009.	
	Legislation Obtain 7,000 MW of powe 2010 2008 2010 1 MT of abatement in 200 Renewable Portfolio Standard Renewable Renewable Renewable Renewable Portfolio Standard Renewable Renewable Renewable Portfolio Standard Renewable Renewable Renewable Portfolio Standard Renewable Renewable Portfolio Standard Renew

Target 157

Country/Region	Brazil		
Policy Type	Legislation		
Policy Name/Description	72% reduction in deforestation by 2017 compared to 2006 levels		
Date Announced	December, 2008	December, 2008	
Target Date	2017		
CO ₂ Abatement Potential	220 MT of abatement in 2	2012 and 440 MT of abatement in 2020	
Policy Category	Sector/Industry Specific F	Regulation	
Related Emissions Target(s)	N/A		
Supporting Policies:	Reforestation plan; Amaz	on Fund;	
Mandates and Incentives			
Investor Risk Assessment	Incentives:1	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary			

Target 158

Country/Region	Brazil		
Policy Type	Legislation		
Policy Name/Description	4% biodiesel blend requirement		
Date Announced	2003, revised May, 2009		
Target Date	Onwards		
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020	
Policy Category	Renewable Fuel Standard	d	
Related Emissions Target(s)	N/A		
Supporting Policies:	National biodiesel progra	m; national tax exemptions; multilateral funding.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	In 2003, the Brazilian Government created the National Program of Production and Use of Biodiesel (PNPB). This program aims to increase the use of biodiesel in the Brazilian energy mix by requiring 2% blending of biodiesel by 2008, and 5% by 2013. In 2008 the 2% target became mandatory after a period of voluntary uptake, and this was subsequently increased to 3% and then 4% in 2009. The program provides a number of incentives for the production of biodiesel, including incentives targeting small farmers. These include the introduction of economic incentive instruments, different tax regimes, targeted technical support, and considerable financial support. In 2004, the National Economic and Social Development Bank announced the creation of the Program of Financial Support and Investments in Biodiesel in Brazil. Petrobras announced that it will invest \$2.4 billion in biofuel production over the next 10 years. Brazil intends to hold an auction to meet the 4% biodiesel mandate. There is excess biodiesel capacity in Brazil, and producers have welcomed		

Target 159

Country/Region	Costa Rica		
Policy Type	Government aspiration		
Policy Name/Description	Carbon neutral society by 2021		
Date Announced	May, 2007		
Target Date	2020		
CO ₂ Abatement Potential	20 MT of abatement in 2020		
Policy Category	Emissions target: No carbon price		
Supporting Policies: Mandates	National Renewable Portfolio Standard (Target 160); national tax on gasoline;		
and Incentives	national C-Neutral Certification Scheme.		
Commentary	In June, 2001, Costa Rica's President announced the intention that the country be carbon neutral by 2021. At the heart of the efforts are payments to compensate landowners for growing trees to capture carbon. This program began in 1997, and is funded by a 3.5% tax on gasoline, which is disbursed to landowners through loans and grants. Another key component of the national strategy will be a C-Neutral Certification Scheme to ensure the tourism industry and other sectors mitigate all of the greenhouse gases that they emit. Under this certification system tourists and businesses will be charged a voluntary tax to offset their		
	emissions, with one ton of carbon priced at \$10. The money will be used to fund fuel conservation, reforestation and research. To augment the development of C-Neutral, Costa Rica is cultivating a carbon certificate market. 46.7% of the country's primary energy came from renewables in 2004, while 94% of electricity came from renewable sources. In 2007, Costa Rica planted more than 5 million trees, making it the highest per capita planter in the world.		

Target 160

Costa Rica	
Legislation	
80-90% of newly installed generation capacity from renewable sources	
(excluding thermal plants)
2000	
2010	
No impact on BAU in 201	2 and 2020
Renewable Portfolio Star	ndard: Electricity
N/A	
National tax exemptions;	Multilateral funding.
Incentives: 3	Sovereign Credit Risk: 2
Public Financing: 2	Integrated Plan: 1
Enforcement: 3	Implementation Capacity: 3
Monitoring: 3	Historical Achievement: 1
2	
	Legislation 80-90% of newly installed (excluding thermal plants) 2000 2010 No impact on BAU in 201 Renewable Portfolio Star N/A National tax exemptions; Incentives: 3 Public Financing: 2 Enforcement: 3 Monitoring: 3 2 This target was establish of Electricity Generation implementation strategies The state-run telecoms of the state-run telecoms of the state of the sta

Target 161

Country/Region	Jamaica		
Policy Type	Legislation		
Policy Name/Description	Energy Policy 2009-2030: 11% of renewables in the energy mix by 2012;		
	12.5% by 2015; 20% by 2030		
Date Announced	May, 2009		
Target Date	2030		
CO ₂ Abatement Potential	1 MT of abatement in 201	2 and 1 MT of abatement in 2020	
Policy Category	Renewable Portfolio Stan	dard: Energy	
Related Emissions Target(s)	N/A		
Supporting Policies:	National tax exemptions;	national net metering; national grants and loans;	
Mandates and Incentives	Multilateral funding.		
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	In May, 2009, the Jama	aican government appointed a five-person team to	
	examine and make nec	essary adjustments to the country's energy policy.	
	Jamaica's Energy Policy	2009-2030 was subsequently released in June, 2009,	
	providing a framework for	or the sustainable management of energy resources	
	and for the developme	ent of viable renewable energy resources, with	
	renewables expected to represent 20% of the energy mix by 2030.		
	The plan includes the following elements: creating an inventory of all potential renewable sites; introducing incentives and favorable planning conditions for renewables; introducing national vehicle emission standards; and complying with international conventions on climate change.		
	The policy will be reviewed as necessary, based on results of assessments by the Ministry of Mining and Energy on what is and is not working. A number of incentives for solar energy use are in place, including net metering, zero tax and duty on solar equipment, government grants, and other grants and loans. The government relies heavily on private investment for renewable projects. The Ministry of Mining and Energy, in conjunction with the Planning Institute of Jamaica (PIOJ), is working with multilateral lending institutions including the World Bank and the Inter-American Development Bank to obtain technical assistance grants to develop renewable projects. The Ministry is also in dialogue with the institutions to help develop a plan for Jamaica's energy future		
	5.6% of energy came from renewables in 2009.		

Target 162

Country/Region	Mexico		
Policy Type	Voluntary		
Policy Name/Description	50% reduction in greenhouse gas emissions from 2002 level by 2050		
Date Announced	December, 11 th , 2008		
Target Date	2050		
CO ₂ Abatement Potential	325 MT of abatement in 2020		
Policy Category	Emissions target: Cap-and-trade		
Supporting Policies: Mandates	National Renewable Portfolio Standard (Target 163); national Automobile		
and Incentives	Pollution Plan; Multilateral funding.		
Commentary	On December, 11 th , 2008, Mexico became the first developing country to announce a national cap-and-trade program, with a proposal to reduce emissions to 50% below 2002 levels by 2050. The plan sets emission limits in sectors including electricity, oil refining, and cement production. The architecture of Mexico's plan draws heavily on research by the Center for Clean Air Policy, which is collaborating with Mexico's government on the design of the greenhouse gas reduction program. Mexico's 2008 renewable energy law established an \$800 million fund, partly to finance renewable energy projects. Mexico has said that it will implement this plan if it gets financial support from developed countries. The \$5.2 billion Clean Technology Fund, which is a multilateral fund managed by the World Bank, provides additional support to this target. Mexico has agreed to an investment plan through the fund.		
	Mexico plans to install 7,000 MW of renewable energy capacity to generate 16,000 GWH per year from solar and wind power by 2012. The country also plans to phase-out all buses and trucks more than 10 years old and to increase the transportation of goods by rail by 10% before 2012. A large proportion of Mexico's reductions in emissions have come from the transition of oil-fired power plants to newer plants powered by natural gas. The private sector is also driving the growth of United Nations Clean Development Mechanism projects. The latest official data on greenhouse gas emissions, from 2002, indicate that Mexico released into the atmosphere 643 MT of CO ₂ in that year: 61% from energy generation and consumption, 22% from industry and 14% from deforestation.		

Target 163

Country/Region	Mexico		
Policy Type	Legislation		
Policy Name/Description	Law for the Use of Renewable Sources of Energy: 8% of power to come from		
	renewables by 2012 (excluding large hydro)		
Date Announced	December, 2005		
Target Date	2012		
CO ₂ Abatement Potential	5 MT of abatement in 201	2 and 5 MT of abatement in 2020	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 162		
Supporting Policies:	National tax exemptions;	national Renewable Energy Law; multilateral funding.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	In December, 2005, the C	chamber of Deputies approved the Law for the Use of	
	Renewable sources, esta	blishing a goal of having renewables constitute 8% of	
	Mexico's power generation	n by 2012, excluding large hydro projects.	
	On October 28 th , 2008, Mexico's President into effect a decree stipulating that		
	the country would establish a national renewable energy plan by June 30th,		
	2009. In August, 2009, Mexico released a national renewable energy plan with		
	specific targets through 2012.		
	Until November, 2008, Article 27 of the Mexican Constitution made it		
	unconstitutional for the private sector to develop renewable power in Mexico.		
	The enactment of a new law for the use of Renewable Energy and the		
	Financing of the Energy Transition substantially improves the legal framework		
		renewable energy projects. Availability of support	
		rtification procedures, best practices manuals, AND	
	guidelines for project development, are still very limited in Mexico.		
	=	e Energy Secretariat, supported by the Global	
	-	eks to establish a green fund to foster green power	
	projects in Mexico.		
		h plentiful renewable resources, but they remain	
		e exception on geothermal and large hydropower. In	
		represented 22% of power generating capacity in	
	Mexico; however 19% of this was large hydro. Historical achievement of		
		with the Energy Sector Program 2001-2006 failing to	
	result in 1,000 MW of nev	v renewable resources.	

Target 164

Country/Region	Nicaragua		
Policy Type	Government aspiration		
Policy Name/Description	38% of electric power from renewable sources by 2011		
Date Announced	2008		
Target Date	2011		
CO ₂ Abatement Potential	1 MT of abatement in 201	2 and 1 MT of abatement in 2020	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	N/A		
Supporting Policies:	National Law on Promotion	on of Electricity with Renewable Resources; national	
Mandates and Incentives	tax exemptions; Multilater	al funding.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 1	
Overall Risk Assessment	2		
Supporting Commentary	Nicaragua made a pledge at the Washington International Renewable Energy		
	Conference to increase the penetration of renewables in the electric power		
	mix. This pledge was modified at the end of February, 2009.		
	In 2005 the Government approved Law 532, the Law on Promotion Electricity		
	Generation with Renewable Resources. This law declared the development		
	and exploitation of renewable resources to be in the national interest.		
	The Law on Promotion	of Electricity Generation with Renewable Resources	
	established tax incentive	s for renewables in 2005 including: exemption from	
		on from VAT, exemption from income tax, exemption	
	•	on real estate, sales and registrations, exemption of	
	taxes on the exploitation of natural resources, and exemption from fiscal seals		
	tax.		
	Nicaragua generated 27% of its electricity from renewable sources in 2008.		

Target 165

Country/Region	Paraguay		
Policy Type	Government aspiration		
Policy Name/Description	50% biofuels in the national fuel pool by 2013		
Date Announced	2008		
Target Date	2013		
CO ₂ Abatement Potential	1 MT of abatement in 201	2 and 1 MT of abatement in 2020	
Policy Category	Renewable Fuel Standard	d	
Related Emissions Target(s)	N/A		
Supporting Policies:	National Biofuel Law; nat	ional tax exemptions; multilateral funding.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 2	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary			
	understanding, and MER ethanol plants, with inves rate. In 2009 biofuels make	hrough multilateral banks, bilateral memoranda of COSUR funds. Investment so far has been in small tment in biodiesel production taking place at a slower up a very small proportion of the energy mix in minated by biomass, petroleum and hydroelectric	

North America - Canada

Target 166

Country/Region	Canada	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 6% reduction in greenhouse gas emissions below 1990 levels for the period 2008-2012	
Date Announced	December, 17, 2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	175 MT of abatement in 2012	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates and Incentives	National emissions target (Target 167), Provincial emissions targets (Target 169, Target 171, Target 173 and Target 176); national Renewable Fuel Standard (Target 168); provincial Renewable Portfolio Standards (Target 170, Target 174, Target 175 and Target 178); provincial vehicle efficiency standard (Target 172); provincial coal-fired power policy (Target 177); provincial tax	
	exemptions for alternative vehicles and provincial building codes.	
Commentary	On December, 17 th , 2002, Canada ratified the Kyoto Protocol, which came into force in February, 2005. In January, 2008, the Canadian Government announced that it would begin developing energy efficiency regulations and introduced a policy that would reduce national industrial emissions intensity to 18% below 2006 levels by 2010 to help meet the Kyoto target. Despite these efforts, the UN reported in April, 2009, that Canada is lagging in its Kyoto obligation. The country's greenhouse gas inventory revealed that emissions are 33.8% above its Kyoto commitment, with growth in emissions attributed to Alberta's oil sands and increased reliance on coal-fired power.	
	In May, 2007, the Friends of the Earth sued the federal government for failing to meet the Kyoto Protocol obligations to cut greenhouse gas emissions. The lawsuit was based on a clause in the Canadian Environmental Protection Act that requires the government to "prevent air pollution that violates an international agreement binding on Canada." Some provinces are pursuing policies to curtail emissions, including the Western Climate Initiative, which British Columbia, Manitoba, and Ontario have joined.	

Target 167

Country/Region	Canada	
Policy Type	Government aspiration	
Policy Name/Description	20% reduction in greenhouse gas emissions from 2006 levels by 2020; 60-	
	70% reduction in emissions by 2050	
Date Announced	April, 2007	
Target Date	2020 and 2050	
CO ₂ Abatement Potential	210 MT of abatement in 2020	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	Provincial emissions targets (Target 169, Target 171, Target 173 and Target	
and Incentives	176); national Renewable Fuel Standard (Target 168); provincial Renewable	
	Portfolio Standards (Target 170, Target 174, Target 175 and Target 178);	
	provincial vehicle efficiency standard (Target 172); provincial coal-fired power	
	policy (Target 177); provincial tax exemptions for alternative vehicles and	
	provincial building codes.	
Commentary	In April, 2007, the Canadian Government announced a new plan: "Turning the	
	Corner: An Action Plan to Reduce Greenhouse Gas and Air Pollution". The	
	plan set the Government goal to reduce greenhouse gas emissions by 20%	
	from 2006 levels by 2020, and places the country on a path to 60-70%	
	reductions by 2050.	
	The Government has implemented a renewable fuel standard to achieve 5%	
	ethanol and 2% biodiesel blends by 2010, and has an aggressive goal to	
	source 90% of electricity from low-carbon sources, including clean coal and	
	nuclear, by 2020. Some provinces are also pursuing policies to curtail	
	emissions, including the Western Climate Initiative, which British Columbia,	
	Manitoba, and Ontario have joined. The Government's Economic Plan	
	includes over CAD\$2 billion of green investments designed to protect the	
	environment and stimulate the economy.	
	In May, 2007, the Friends of the Earth sued the Canadian government for	
	failing to meet the Kyoto Protocol obligations to cut greenhouse gas	
	emissions. The lawsuit was based on a clause in the Canadian Environmental	
	Protection Act that requires the government to "prevent air pollution that	
	violates an international agreement binding on Canada." Canada's emissions	
	were 30% above 1990 levels in 2007. It is estimated that even with this Action	
	Plan in place, Canada will only be in compliance with its Kyoto target in 2025.	

Target 168

Country/Region	Canada	
Policy Type	Legislation	
Policy Name/Description	Renewable Fuel Bill C-33: 5% ethanol and 2% biodiesel fuel blends by 2010.	
Date Announced	October, 2006	
Target Date	2010	
CO ₂ Abatement Potential	5 MT of abatement in 201	2 and 5 MT of abatement in 2020
Policy Category	Renewable Fuel Standard	d
Related Emissions Target(s)	Target 166 and Target 16	37
Supporting Policies:	Provincial level renewable	e fuel standards in Ontario, Manitoba, British
Mandates and Incentives	Columbia and Saskatche	wan; subsidies for research and development in
	biofuels; federal tax brea	ks for biodiesel; provincial tax breaks for biodiesel.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	In October, 2006, the federal government announced its intention to develop a federal Renewable Fuels Standard, including the mandate of an average of 5% renewable fuel content in gasoline by 2010. Bill C-33 was passed by the Standing Senate Committee on Energy, the Environment and Natural Resources on June, 26 th , 2008. It was then reported to the full Senate, passed, and gained Royal Assent on the same day. According to the Canadian Renewable fuels Association, Canada currently has 1.4 billion liters in ethanol production capacity with 600 million liters under construction – adding up to 2 billion liters required to meet the standard of 5% by 2010. Up to CAN\$41.5 billion will be allocated over seven years as an operating	
	incentive to producers of renewable fuels. Incentive rates will be up to \$0.10 per liter for renewable alternatives to gasoline and up to \$0.20 per liter for renewable alternatives to diesel for the first three years, then decline thereafter. In 2003, the federal government exempted biodiesel from the \$0.04 per liter federal excise tax. Provincial authorities have also acted to implement biodiesel incentives to stimulate production. British Columbia, Ontario and Manitoba now offer tax exemptions. To enable compliance, a credit and trading system will be established. Under the trading system, companies will have an option of obtaining credits from others rather than actually having renewable fuel content in their fuel.	

Target 169

Country/Region	Canada - Alberta		
Policy Type	Legislation		
Policy Name/Description	Climate Change and Emissions Amendment Act: 50% reduction in		
	greenhouse gas emissions intensity by 2020		
Date Announced	January, 2008		
Target Date	2020		
CO ₂ Abatement Potential	115 MT of abatement in 2020		
Policy Category	Emissions target: No carbon price		
Supporting Policies: Mandates	Provincial Renewable Portfolio Standard (Target 170); provincial renewable		
and Incentives	fuel standard		
Commentary	Alberta's Climate Change and Emissions Management Amendment Act received Royal Assent in November, 2008. The Act sets a target of reducing emissions intensity of GDP to 50% of 1990 levels by 2020.		
	The Act requires facilities with greenhouse gas emissions above certain thresholds to report their emissions and also grants Alberta's cabinet the authority to regulate emissions and offsets. In addition to reducing emissions to meet its target, a facility can comply by offsetting its emissions in accordance with Alberta's offset project guidelines. Facilities can also obtain "fund credits" by paying into a Climate Change and Emissions Management Fund \$15/ton of emissions reductions required. The Amendment Act is part of Alberta's Climate Change Strategy which focuses around three key themes: Conserving and using energy efficiently; implementing carbon capture and storage; and greening energy production in Alberta.		
	Alberta is one of the largest fossil fuel energy producers in the world especial from its large deposits of oil sands. The Action plan cites CCS as the abatement measure with the greatest potential. , Canada-Albert ecoENERGY, which is a dedicated task force on CCS, is already in place and there is the intention to establish a multi-disciplinary carbon capture are storage Development Council. The Albertan government is investing \$2 billion in CCS.		
	Initial unaudited results for 2008 released by the government of Alberta, show that companies have reduced emissions by 6.5 MT to date through operational changes and investing in verified offsets created by other projects in Alberta. However, a 2009 report conducted by the Global Forest Watch found that greenhouse gas emissions from Alberta's oil sands might be up to 25% higher than previously known owing to the omission of the impact of forest and peatlands in calculations.		

Target 170

Country/Region	Canada – Alberta	
Policy Type	Government aspiration	
Policy Name/Description	20% renewable by 2020	
Date Announced	2006	
Target Date	2020	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020
Policy Category	Renewable Portfolio Star	ndard: Electricity
Related Emissions Target(s)	Target 166, Target 167 a	nd Target 169
Supporting Policies:	Energy Environment Tec	hnology Fund; Biogas credits
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	1	
Supporting Commentary		

Target 171

Country/Region	Canada – British Columbia	
Policy Type	Legislation	
Policy Name/Description	Greenhouse Gas Reduction Targets Act: 33% reduction in greenhouse gas	
	emissions below 2007 levels by 2020; 80% by 2050.	
Date Announced	November, 2007	
Target Date	2020 and 2050	
CO ₂ Abatement Potential	30 MT of abatement in 2020	
Policy Category	Emissions target: Cap-and-trade and Carbon tax	
Supporting Policies: Mandates	Provincial vehicle efficiency standard (Target 172); provincial carbon tax;	
and Incentives	provincial green building code; "LiveSmart BC" initiative; provincial tax breaks for biodiesel.	
Commentary	The November, 2007 Greenhouse Gas Reduction Targets Act established British Columbia's commitment to reduce greenhouse gas emissions by 33% compared to 2007 levels by 2020.	
	British Columbia's Climate Action Plan outlines comprehensive strategies a initiatives that will help the province achieve approximately 73% of its 20 goal. The plan outlines a new green economy with a wide range of spec actions that will make the province more efficient and productive who reducing greenhouse gas emissions. In addition, the plan discusses how to Climate Action Team for British Columbia will develop strategies to achieve the rest of the 2020 target	
	Incentives included in the plan include \$1.8 billion in tax cuts funded by the revenue-neutral carbon tax. Revenue collected from the tax must, by law, be recycled into the economy in the form of tax cuts. The government is legally compelled to table an annual public plan outlining how every cent of carbon tax revenue will be balanced by a tax reduction. A LiveSmart BC initiative was launched in 2008 to provide incentives to reward smart choices that save energy.	
	The Province is a member of the Climate Registry, an international partnership working to create a common approach to measuring and reporting greenhouse gas emissions. It is also a member of the Western Climate Initiative (WCI), enabling it to participate in a regional cap-and-trade system to reduce emissions from industrial polluters.	

Target 172

Country/Region	Canada – British Columbia		
Policy Type	Proposed legislation		
Policy Name/Description	Greenhouse Gas Reduction (Vehicles Emissions Standards) Act: Reduce		
	greenhouse gas emissions from vehicles by 30% relative to 2008 models by		
	2016		
Date Announced	April, 2008		
Target Date	2016		
CO ₂ Abatement Potential	Not modeled		
Policy Category	Industry/Sector Specific F	Regulation	
Related Emissions Target(s)	Target 166, Target 167, a	nd Target 171	
Supporting Policies:	Provincial tax exemptions	for hybrid vehicles; provincial transit plan, which	
Mandates and Incentives	includes substantial public	c funding.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	British Columbia's Ministry of Environment announced the Greenhouse Gas		
	Reduction (Vehicle Emissions Standards) Act in April, 2008. The legislation		
	establishes vehicle emission standards to reduce greenhouse gas emissions		
	by 30% relative to 2008 models.		
	Details on implementation strategies for the legislation can be found within the		
	British Columbia Climate Action Plan.		
	A (f)		
	A 'fleet average' approach will enable manufacturers to keep selling vehicles that exceed the allowed emissions – provided they sell enough low-carbon		
		. ,	
	vehicles for their fleets to meet the fleet average.		
	C\$14 hillion has been in	nvested in a provincial transit plan. Substantial tax	
		vehicles have also been implemented, including	
	waiving the provincial sales tax for hybrid vehicles.		
	waiving the provincial sales tax for hybrid vehicles.		
	British Columbia's Ministry of Environment oversees climate change programs		
	in the province and has set up the Climate Action Team to monitor progress.		

Target 173

Country/Region	Canada - Manitoba	
Policy Type	Legislation	
Policy Name/Description	Climate Change and Emissions Reductions Act: 6% reduction in greenhouse gas emissions below 1990 levels by 2012; 15% by 2020.	
Date Announced	June, 2008	
Target Date	December, 31 st , 2012	
CO ₂ Abatement Potential	Not modeled	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates and Incentives	Provincial Renewable Portfolio Standard (Target 174); provincial ethanol fuel mandate; provincial 'Driving Green' program including rebates for hybrid vehicles; provincial building efficiency codes; provincial tax breaks for biodiesel.	
Commentary	Enacted in June, 2008, The Climate Change and Emissions Reductions Act (CCERA) binds the province to reducing greenhouse gas emissions to 6% below 1990 levels by the end of 2012. The Act is backed by "Beyond Kyoto," Manitoba's updated Climate Change Action Plan, a comprehensive strategy outlining over 60 actions that will achieve greenhouse gas reductions from all sectors. Manitoba is also a member of the Western Climate Initiative (WCI) cap-and-trade scheme, enabling it to trade emission credits regionally and meet its longer-term WCI 15% reduction target by 2020 under the scheme.	
	According to Manitoba's Climate Action Plan, since 2000, Manitoba's emissions have remained relatively stable. They are expected to decline by 2010. For 2010, 2012 and every fourth year after 2012, the minister responsible for administering the Climate Change and Emissions Reductions Act must prepare a report that assesses the current and predicted impacts of climate change for Manitoba and describes the government's policies, programs, incentives and measures for assisting Manitoba in reducing emissions.	

Target 174

Country/Region	Canada – Manitoba	
Policy Type	Executive Order	
Policy Name/Description	1,000 MW installed wind capacity 2016	
Date Announced	November, 2005	
Target Date	2016	
CO ₂ Abatement Potential	5 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 166, Target 167, T	arget 173 and Target 185
Supporting Policies:	Federal wind power produ	uction incentive; provincial tax incentives.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary		

Target 175

Country/Region	Canada – Nova Scotia	
Policy Type	Legislation	
Policy Name/Description	Renewable Energy Standard Regulations: 5% of the total electricity	
	generation from new renewable sources by 2010; 10% by 2013.	
Date Announced	February, 2007	
Target Date	2010 and 2013	
CO ₂ Abatement Potential	No impact on BAU in 2013	2 and 2020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 166 and Target 16	7
Supporting Policies:	Federal wind power produ	uction incentive; provincial rebates.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	regulations that require 2 renewable energy by 201 renewables to the total electrone and the plan contains a detair renewables and sets of suggesting that a longer should be implemented. In 2005, the Canadian measures that may bols \$260 million federal wind cost premium of wind proplace for renewables, incl. Around 70 MW of wind control Nova Scotia will need to MW additional by 2013. might not meet the target	Nova Scotia Department of Energy introduced 20% of Nova Scotia's electricity to be generated by 3. The legislation calls for the addition of 5% of new extricity supply by 2010, and 10% by 2013. Italied energy strategy was unveiled for Nova Scotia. Ited timeline for implementation of the 2013 target for ut action plans to achieve the target as well as exterm target of 25% renewable electricity by 2020 federal government implemented a number of ter the effectiveness of Nova Scotia's efforts. The power production incentive covers about half of the ojects. There are also some provincial incentives in uding a rebate on solar water heating. The apacity has been installed. If the target is to be met, deploy 210 MW of additional wind by 2010 and 510 Nova Scotia Power has expressed concern that it due to delays in approved wind projects. The target is to be met, deploy 210 mW of additional wind by 2010 and 510 Nova Scotia Power has expressed concern that it due to delays in approved wind projects.

Target 176

Country/Region	Canada - Ontario
Policy Type	Legislation
Policy Name/Description	6% reduction in greenhouse gas emissions below 1990 levels by 2014; 15%
	by 2020.
Date Announced	June, 2007
Target Date	2014
CO ₂ Abatement Potential	Not modeled
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Provincial vehicle efficiency Standard (Target 172); Provincial coal-fired power
and Incentives	policy (Target 177); "MoveOntario 2020" transportation plan; Feed-in tariffs for
	renewable projects; and provincial tax breaks for biodiesel.
Commentary	Ontario launched its Climate Change Action Plan in June, 2007, establishing a target to reduce emissions by 6% compared to 1990 levels by 2014.
	Ontario is a member of the Climate Registry, an international partnership working to create a common approach to measuring and reporting greenhouse gas emissions. It is also a member of the Western Climate Initiative (WCI), the Midwest Greenhouse Gas Reduction Gas Initiative as well as being an observing state to the Regional Greenhouse Gas Initiative (RGGI) cap-and-trade schemes. The WCI enables Ontario to trade emission credits regionally. In June, 2008, Ontario and Quebec signed a Memorandum of Understanding to develop a regional cap-and-trade system for implementation as early as 2010.
	Coal-fired electricity generation is one of the province's largest sources of greenhouse gas emissions, and bold action has been taken in setting the industry standard to eliminate coal burning in Ontario's four remaining coal-fired power stations by year end 2014. It is estimated that this move could reduce greenhouse gas emissions by up to 30 MT. The Province is also on target to sign contracts for at least 2,700 MW of new renewable power by 2010, and has introduced attractive incentive schemes for small power producers who can access 20-year fixed price contracts for renewable projects. The Province's transportation plan, "MoveOntario 2020," also aims to reduce greenhouse gas emissions from the sector.

Target 177

Country/Region	Canada – Ontario	
Policy Type	Legislation	
Policy Name/Description	Eliminate coal-fired power by December, 31 st , 2014	
Date Announced	June, 18 th , 2007	
Target Date	2014	
CO ₂ Abatement Potential	30 MT of abatement in 20	020
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 166, Target 167, T	arget 176 and Target 185
Supporting Policies:	Green Energy Act 2009	
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	remaining coal-fired power first jurisdiction in North a fired power. Behind the plan. Ontario is making steady coal during peak demander plant. Ontario's coal-fired The Clean Air Alliance of virtually complete coal phatarget date. In January, (IESO) supported the vie coal-fired power. As coal plants are phase of The Green Energy Act transition by putting in prenewable projects to the currently 782 MW of winds.	s Government announced that it would close its er plants by 2014. This legislation makes Ontario the America with a regulation in place to eliminate coal-overarching goal, there is a detailed coal phase-out of progress towards this goal. Currently, it only uses do and it has already closed its Lakeview coal-fired generation fell by 36% between 2003 and 2008. The ported that Ontario has the capacity to achieve a pase-out by January 1st, 2010, 4 years earlier than the 2009, the Independent Electricity System Operator with that Ontario is well positioned for the phase-out of ad out, they will be replaced with renewable sources. In implemented in May, 2009, helps support this place a robust regulatory framework to bring more be province and to boost energy efficiency. There is discapacity in place in Ontario and in January, 2009, and energy projects totaling almost 500 MW were

Target 178

Country/Region	Canada – Quebec	
Policy Type	Government aspiration	
Policy Name/Description	Energy Strategy 2006-2015: 4,000 MW wind energy by 2015	
Date Announced	May, 2006	
Target Date	2015	
CO ₂ Abatement Potential	10 MT of abatement in 20	020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 166, Target 167 ar	nd Target 185
Supporting Policies:	Federal wind power produ	uction incentive; provincial tax incentives.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	Energy Strategy 2006 to for the next decade. Maresearch and innovation and wind power. In April, 2009, Quebec h 2004 and February, 2005 of electricity generated by of new wind power project Additionally in May, 2008 announced. The Quebect generate \$1.3 billion in interpretation of the Company of the Government of Company of the Gove	nuebec's commitment to wind power has been loyment programs. A 30% refundable tax credit for mployees is available from the government for the rated electricity in the Gaspésie-Îles-de-la-Madeleine ntives are available for wind generation by a private d job creation fund that offers a number of incentives

North America – United States

Target 179

Country/Region	United States		
Policy Type	Proposed Legislation		
Policy Name/Description	American Clean Energy and Security Act (ACES): 17% reduction in		
	greenhouse gas emissions below 2005 levels by 2020; 83% below 2005 levels		
	in 2050		
Date Announced	May, 2009		
Target Date	2020		
CO ₂ Abatement Potential	1105 MT of abatement in 2020		
Policy Category	Emissions target: Cap-and-trade		
Supporting Policies: Mandates	2 regional emissions targets (Target 184 and Target 185); 32 state emissions		
and Incentives	targets (Target 186, Target 188, Target 193, Target 194, Target 196, Target		
	198, Target 199, Target 201, Target 206, Target 207, Target 210, Target 211,		
	Target 213, Target 214, Target 218, Target 221, Target 224, Target 225,		
	Target 227, Target 228, Target 230, Target 232, Target 233, Target 240,		
	Target 244, Target 245, Target 249, Target 251, Target 252, Target 255,		
	Target 257, and Target 259); federal renewable fuel standard (Target 181);		
	proposed federal vehicle efficiency standard (Target 183); proposed federal		
	Renewable Portfolio Standard (Target 182); 38 state Renewable Portfolio		
	Standards (Target 187, Target 189, Target 190, Target 192, Target 195,		
	Target 197, Target 200, Target 203, Target 204, Target 205, Target 208,		
	Target 209, Target 212, Target 215, Target 216, Target 219, Target 220,		
	Target 222, Target 223, Target 226, Target 229, Target 231, Target 234,		
	Target 235, Target 236, Target 237, Target 238, Target 241, Target 242,		
	Target 246, Target 247, Target 248, Target 250, Target 253, Target 254,		
	Target 256, Target 258, and Target 260); state lighting standard (Target 191);		
	state power sector standard (Target 202); 3 state energy efficiency standards		
	(Target 217, Target 239 and Target 243); state biomass target (Target 254).		
Commentary	In June, 2009, the House of Representatives passed the American Clean		
	Energy and Security Act (ACES), sponsored by Rep. Henry A. Waxman,		
	Chairman of the House Energy and Commerce Committee, and Rep. Edward		
	J. Markey, Chairman of the House Select Committee on Energy Independence		
	and Global Warming.		
	The ACCC contains these mineral management for an decimal and a second s		
	The ACES contains three primary programs for reducing carbon emissions: (1)		
	a cap on large domestic sources of emissions; (2) a program to reduce tropical		
	deforestation; and (3) an offset program.		
	The program would be implemented by adding two new provisions to the		
	The program would be implemented by adding two new provisions to the Clean Air Act to be primarily administered by the EPA. The new obligations		
	would be phased in for different covered entities from 2012 to 2016.		

Target 180

Country/Region	United States
Policy Type	Proposed legislation
Policy Name/Description	Save Our Climate Act: 80% reduction in greenhouse gas emissions below
	1990 levels by 2050
Date Announced	February, 2009
Target Date	2050
CO ₂ Abatement Potential	Not modeled
Policy Category	Emissions target: Carbon tax
Supporting Policies: Mandates	2 regional emissions targets (Target 185 and Target 184); 32 state emissions
and Incentives	targets (Target 186, Target 188, Target 193, Target 194, Target 196, Target
	198, Target 199, Target 201, Target 206, Target 207, Target 210, Target 211,
	Target 213, Target 214, Target 218, Target 221, Target 224, Target 225,
	Target 227, Target 228, Target 230, Target 232, Target 233, Target 240,
	Target 244, Target 245, Target 249, Target 251, Target 252, Target 255,
	Target 257, and Target 259); federal Renewable Fuel Standard (Target 181);
	proposed federal vehicle efficiency standard (Target 183); proposed federal
	Renewable Portfolio Standard (Target 182); 38 state Renewable Portfolio
	Standards (Target 187, Target 189, Target 190, Target 192, Target 195,
	Target 197, Target 200, Target 203, Target 204, Target 205, Target 208,
	Target 209, Target 212, Target 215, Target 216, Target 219, Target 220,
	Target 222, Target 223, Target 226, Target 229, Target 231, Target 234,
	Target 235, Target 236, Target 237, Target 238, Target 241, Target 242,
	Target 246, Target 247, Target 248, Target 250, Target 253, Target 254,
	Target 256, Target 258, and Target 260); state lighting standard (Target 191);
	state power sector standard (Target 202); 3 state energy efficiency standards
	(Target 217, Target 239 and Target 243); state biomass target (Target 254).
Commentary	The Save Our Climate Act has not come into force as of publication. It would
	impose a tax on carbon-based fossil fuels. The Act targets reducing emissions
	by 80% below 1990 levels by 2050, and imposes an initial tax of \$10/ton of
	CO ₂ e tax on fossil fuels. The tax would increase by \$10/ton each year,
	freezing when a Department of Energy report determines that emissions have
	decreased by 80% from 1990 levels.

Target 181

Country/Region	United States	
Policy Type	Legislation	
Policy Name/Description	Energy Independence and Security Act of 2007: 36 billion gallons of ethanol	
	production by 2022.	
Date Announced	January, 2008	
Target Date	2022	
CO ₂ Abatement Potential	260 MT of abatement in 2	2020
Policy Category	Renewable Fuel Standard	d
Related Emissions Target(s)	Target 179	
Supporting Policies:	Proposed national carbor	tax (Target 180); volumetric ethanol excise tax
Mandates and Incentives	credit; biodiesel tax credit	; states such as Louisiana, Missouri, Montana and
	Oregon have also implem	nented renewable fuel standards.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	A detailed, year-by-year r	requirement is in place and the legislation establishes
	specific volume standa	rds for cellulosic biofuel, biomass-based biofuel,
	advanced biofuel and total renewable fuel that must be used in transportation	
	fuel each year.	
	The impacts of the requ	uirement on petroleum consumption, fuel costs an
	energy security have been studied and are well documented.	
	1	the Department of Energy is pushing cutting edge
		nt in biofuels with a budget increase from below \$100
	•	to \$198 million a year today. Compliance with the
		ough a system of Renewable Identification Numbers.
	=	importers are assigned a number of Renewable
		that they must hand over to the Environmental
		year. The Renewable Identification Numbers can be
	traded on the Environmental Protection Agency's Moderated Transaction	
	System.	
	Debugt sind a seed to	in place of up to \$20,500 for each devential \$2.50
	Robust civil penalties are in place of up to \$32,500 for each day of violation of	
		ance of violation. Violators are also fined the amount
	or economic benefit they	accrued in instances of non-compliance.

Target 182

Country/Region	United States		
Policy Type	Proposed legislation		
Policy Name/Description	American Clean Energy a	and Security Act: Combined renewable electricity and	
	electricity savings of 6% 2	2012 rising to 20% by 2020	
Date Announced	May, 2009		
Target Date	2012 and 2020		
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 460 MT of abatement in 2020	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179		
Supporting Policies:	38 state Renewable Port	folio Standards (Target 187, Target 189, Target 190,	
Mandates and Incentives	Target 192, Target 195,	Target 197, Target 200, Target 203, Target 204,	
	Target 205, Target 208,	Target 209, Target 212, Target 215, Target 216,	
	Target 219, Target 220,	Target 222, Target 223, Target 226, Target 229,	
	Target 231, Target 234,	Target 235, Target 236, Target 237, Target 238,	
	Target 241, Target 242,	Target 246, Target 247, Target 248, Target 250,	
	Target 253, Target 254, T	arget 256, Target 258, and Target 260)	
Investor Risk Assessment	Incentives: N/A	Sovereign Credit Risk: N/A	
Rationale (See exhibit 5)	Public Financing: N/A	Integrated Plan: N/A	
Lower Risk = 1; Moderate	Enforcement: N/A	Implementation Capacity: N/A	
Risk = 2; Higher Risk = 3	Monitoring: N/A	Historical Achievement: N/A	
Overall Risk Assessment	N/A: Awaiting Senate Bill	and House Reconciliation	
Supporting Commentary	In June, 2009, the House of Representatives passed the American Clean Energy and Security Act (ACES), sponsored by Rep. Henry A. Waxman, Chairman of the House Energy and Commerce Committee, and Rep. Edward J. Markey, Chairman of the House Select Committee on Energy Independence and Global Warming.		
	The ACES contains three primary programs for reducing carbon emissions: (1) a cap on large domestic sources of emissions; (2) a program to reduce tropical deforestation; and (3) an offset program.		
	Regulatory Policies Act of suppliers to meet a growing from renewable resource electricity and electricity gradually rises to 20% in state must be met with reseavings. Upon petition be reduced to 12% and the alternative means of consubmit, in lieu of a federal	y standard is an amendment of the Public Utility of 1978 (PURPA). The ACES requires retail electric ng percentage of their load with electricity generated as and electricity savings. The combined renewable savings requirement begins at 6% in 2012 and a 2020. In 2020, 15% of the electricity load in each newable electricity and 5% can be met with electricity by the governor, the renewable requirement can be electricity savings can be increased to 8%. As an analysing with the RES, a retail electric supplier may all REC or MWh of electricity savings, an "alternative teal to \$25, adjusted for inflation.	

Target 183

Country/Region	United States	
Policy Type	Proposed legislation	
Policy Name/Description	Fleet average efficiency of 35.5 miles per gallon by 2016	
Date Announced	May, 2009	
Target Date	2016	
CO ₂ Abatement Potential	170 MT of abatement in 2	2020
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 179	-
Supporting Policies:	CO ₂ /CAFÉ credits; federa	al grants; state initiatives supporting clean vehicles.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	This proposal calls for incremental increases in fuel economy of 5% per year from 2012 to 2016. The National Highway Traffic Safety Administration is being required to set individual CAFE standards for every model year from 2011 on to ensure achievement of the target. Flexible mechanisms, including CO ₂ /CAFÉ credits, are being used to incentivize compliance. They are earned based on fleet average performance. At the end of each model year, when sales of the model year are complete, a sales-weighted fleet average will be calculated for each averaging set under the proposal (cars and trucks). Under this approach, car and/or truck fleets that achieve a fleet average CO ₂ /CAFÉ level better than the standard would earn credits.	
	President Obama for the announcement of the target. Substantial public money has been made available in support of this target. In August, 2009, President Obama announced \$2.4 billion in grants to companies developing car battery and hybrid technologies. A penalty of \$5.50 times the number of vehicles in the fleet times the number of tenths of a mpg by which the fleet average falls below the standard has been proposed for non-compliance. The Environmental Protection Agency notes that there have been no instances of noncompliance with its national LEV and Tier 2 corporate average standards, on which the compliance mechanisms of this target are closely based.	

Target 184

Country/Region	United States – Regional Greenhouse Gas Initiative
Policy Type	Legislation
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): Cap greenhouse gas emissions
	from power plants at current levels in 2009, and then reduce emissions by
	10% by 2018 in 10 northeastern states, including Connecticut, Delaware,
	Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York,
	Rhode Island and Vermont.
Date Announced	December, 2005
Target Date	2018
CO ₂ Abatement Potential	40 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	State emissions targets (Target 193, Target 194, Target 196, Target 206,
and Incentives	Target 207, Target 210, Target 211, Target 213, Target 214, Target 224,
	Target 225, Target 227, Target 228, Target 232, Target 233, Target 244,
	Target 245, Target 251, Target 252); state renewable portfolio standards
	(Target 195, Target 197, Target 208, Target 209, Target 212, Target 215,
	Target 226, Target 229, Target 234, Target 235, Target 246, Target 253,
	Target 254); proposed federal vehicle efficiency standard (Target 183).
Commentary	This is the first mandatory market-based effort in the US to reduce greenhouse
	gas emissions. RGGI is composed of individual CO ₂ budget trading programs
	in each of the 10 states – and these programs are implemented through state
	regulations, based on a RGGI Model Rule and linked through CO ₂ allowance
	reciprocity.
	Under RGGI, regulated power plants will be able to use emissions allowances
	issued by any of the 10 states in the scheme to demonstrate compliance with
	the program. There is a detailed plan in place that allows participants to
	purchase offsets to meet 50% of their emission reductions. There are also
	some flexibility mechanisms and design elements in the RGGI model that
	could inflate the cap and could make the program less effective at reducing
	the region's emissions through local actions.
	RGGI permits are selling well at auction with 12.5 million sold in the first
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI
	sold 32 million permits and the March, 2009, auction – the first since RGGI
	states' cap-and-trade rules took effect – saw all 32 million allowances sold at
	the clearing price. The proceeds from these sales are fed back to power
	utilities to invest in clean technologies and efficiency measures. The fourth
	auction of allowances in June, 2009, raised \$104.2 million for Investment in
	the Green Economy in participating states.

Target 185

Country/Region	United States – Western Climate Initiative
Policy Type	Legislation
Policy Name/Description	Western Climate Initiative (WCI): 15% reduction in greenhouse gas emissions
	from 2005 levels by 2020 by 11 US states and Canadian provinces, including
	Arizona, British Columbia, California, Manitoba, Montana, Mew Mexico,
	Ontario, Oregon, Quebec, Utah, and Washington. 6 Mexican states, 6 US
	states and one Canadian province are also WCI observers.
Date Announced	August, 22 nd , 2007
Target Date	2020
CO ₂ Abatement Potential	200 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Proposed federal carbon tax (Target 180); state and provincial emissions
and Incentives	targets (Target 171, Target 172, Target 173, Target 176, Target 186, Target
	188, Target 221, and Target 230, Target 240, Target 249, Target 257); state
	and provincial Renewable Portfolio Standards (Target 174, Target 178, Target
	187, Target 189, Target 190, Target 222, Target 231, Target 241, Target 250
	and Target 258); proposed federal vehicle efficiency standard (Target 183);
	state lighting standard (Target 191); provincial vehicle efficiency standard
	(Target 172); provincial coal-fired power policy (target 177).
Commentary	On September 23 rd , 2008, the WCI released its design recommendations for a
	regional multi-sector cap-and-trade program. The target has been carefully set
	according to: analysis of each state's emissions inventories; the aggregation of
	greenhouse gas emissions and emissions goals of WCI partners; gross
	emissions estimates; and consumption-based emissions estimates for the
	electricity sector.
	The program will be implemented in two phases. Beginning on January 1st,
	2012, emissions from electricity generation and large industrial and
	commercial sources will be covered. In the second phase, beginning in
	January, 2015, the program will expand to cover emissions from transportation
	and residential, commercial, and industrial fuel use not otherwise covered.
	The overall target represents an aggregate of goals set by each individual
	state. A reporting committee will oversee jurisdictional rules, reporting tools
	and a regional emissions database. Mandatory reporting of greenhouse gas
	emissions will begin prior to the cap-and-trade program and each partner will
	update the other WCI partners on their climate plans every two years to
	ensure adequate progress is taking place.
	In 2009, to appourage emissions reductions before the official laws to at the
	In 2008, to encourage emissions reductions before the official launch of the
	program, criteria for acceptable "early action offsets" were developed.

Target 186

Country/Region	United States - Arizona		
Policy Type	Executive Order		
Policy Name/Description	Executive Order 2006-13: Reduce greenhouse gas emissions to 2000 levels		
	by 2020; achieve a 50% reduction below 2000 levels by 2040. August, 2006		
Date Announced	August, 2006		
Target Date	2020 and 2040		
CO ₂ Abatement Potential	1 MT of abatement in 2020		
Policy Category	Emissions target: Cap-and-trade		
Supporting Policies: Mandates	Cap-and-trade under the Western Climate Initiative; state Renewable Portfolio		
and Incentives	Standard (Target 187); state appliance efficiency standards; state building		
	energy code; state energy standards for public buildings; net metering; federal		
	Energy Star homes program.		
Commentary	Arizona has developed a detailed Climate Change Action Plan behind this target with 49 recommendations for addressing and reducing greenhouse gas emissions. Prior to the first meeting of the Climate Change Action Group, a preliminary inventory and forecast of greenhouse gas emissions for Arizona was produced for 1990-2020. It showed that the state's net emissions increased by 56% between 1990 and 2005, and that emissions were forecast		
	to increase by 148% from 1990 to 2020, taking into account the effect of business-as-usual energy efficiency measures. The Climate Change Action Group acknowledged that the high business-as-usual growth of emissions posed a challenge. They identified a set of interventions focused on energy efficiency and renewable energy as the most promising methods to reduce emissions.		
	A number of streams of financing are being brought together to support Arizona's plan. The state received an award of \$22.8 million from the US Department of Energy for the Weatherization Assistance Program. The funding will be used to weatherize 6,500 homes in the state over the next 3 years. After demonstration of successful implementation of this plan, Arizona will receive more than \$28 million in additional funds. The Arizona Department of Environmental Quality also received \$1.73 million from the American Recovery and Reinvestment Act of 2009. The funding will support clean diesel projects and loan programs to address diesel engine fleet.		
	Arizona is a signatory to the Western Climate Initiative (WCI), which allows it to participate in emissions trading to meet its obligations. It must report to its WCI partners every two years on its climate plans.		

Target 187

Country/Region	United States – Arizona			
Policy Type	Legislation			
Policy Name/Description	15% of energy from renewables by 2025 (4.5% by 2012 from distributed			
	energy resources)			
Date Announced	February, 2006	*		
Target Date	2025			
CO ₂ Abatement Potential	10 MT of abatement in 20	020		
Policy Category	Renewable Portfolio Stan	dard: Energy		
Related Emissions Target(s)	Target 179, Target 180, T	arget 185 and Target 186		
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits, state tax credits for solar and		
Mandates and Incentives	wind projects; state greer	n building incentives; state Renewable Industries		
	program; state solar acce	ess law; state solar/wind permitting standards.		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1		
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1		
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2		
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3		
Overall Risk Assessment	2			
Supporting Commentary	Monitoring: 1 Historical Achievement: 3			

Target 188

Country/Region	United States – California		
Policy Type	Legislation		
Policy Name/Description	Assembly Bill 32: Reduce greenhouse gas emissions to 1990 levels by 2020		
Date Announced	February, 26 th , 2007		
Target Date	2020		
CO ₂ Abatement Potential	65 MT of abatement in 2020		
Policy Category	Emissions target: Cap-and-trade		
Supporting Policies: Mandates	Cap-and-trade scheme under the Western Climate Initiative; state Renewable		
and Incentives	Portfolio Standards (Target 189 and Target 190); state lighting efficiency		
	standard (Target 191); federal and state vehicle emissions standards; state		
	appliance efficiency standards; state building energy code; state energy		
	standards for public buildings; net metering; state solar access law; federal		
	Energy Star homes program.		
Commentary	In 2006, the state legislature passed and Governor Arnold Schwarzenegger signed AB 32, the Global Warming Solutions Act of 2006. This established the 2020 greenhouse gas emissions reduction goal as state law. It directed the California Air Resources Board (CARB) to begin developing discrete early actions to reduce greenhouse gases while also preparing a scoping plan to identify how best to reach the 2020 limit. During 2009, CARB staff will draft rule language to implement the plan and will hold workshops on each of the major provisions. In 2010, the early action measures will take effect. By 2011, regulations should be adopted to achieve the maximum technologically feasible and cost-effective reductions in emissions, including provisions for using market and alternative compliance mechanisms.		
	The AB 32 scoping plan details how CARB will implement a broad-based cap- and-trade program linked to the Western Climate Initiative. Design and implementation of this must be finalized by January, 2011.		
	AB 32 also put a multi-agency response team in place to achieve this target and coordinate responses. A Climate Action Team has been established representing key state agencies responsible for implementing strategies and programs to reduce emissions.		
	Research initiatives in California, such as the climate change research subprogram at CARB, have also been particularly active since the passage of AB 32. The subprogram is pursuing substantial work on low-emissions vehicles.		

Target 189

Country/Region	United States – California	
Policy Type	Legislation	
Policy Name/Description	Senate Bills 1078 and 107: 20% of electricity from three major utility providers	
	must be produced from eligible renewable sources by 2010	
Date Announced	2002; revised in 2006 and	d 2008
Target Date	2010	
CO ₂ Abatement Potential	15 MT of abatement in 20	12
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179, Target 180, T	arget 185 and Target 188
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state feed-in tariff; state
Mandates and Incentives	public benefits fund; state	e rebate programs.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	The California Public Util	lities Commission (CPUC) notes that to achieve the

Target 190

Country/Region	United States – California		
Policy Type	Legislation		
Policy Name/Description	Senate Bills 1078 and 107: 33% of electricity must be produced from eligible		
	renewable sources by 2020		
Date Announced	2002; revised in 2006 and	d 2008.	
Target Date	2020		
CO ₂ Abatement Potential	65 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180, T	arget 185 and Target 188	
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state feed-in tariff; state	
Mandates and Incentives	public benefits fund; state	rebate programs.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	-	n conducted on the target. Every scenario studied by	
	the California Public Utilit	ies Commission shows California failing to meet the	
		nent by 2021 "represents a best case scenario as it	
		ks, no resource constraints in processing numerous	
	_	ion applications, and that the California ISO is able to	
	successfully implement its planned new process to review and approve more		
	than one major transmission application per year." A California Public Utilities		
	Commission study found that the target may require a state intervention of \$60		
	billion in generation and transmission from 2010 to 2020. Given current		
	budgetary conditions, this may not be possible.		
	A food in tariff is in place allowing eligible quaterner generators to enter into		
	A feed-in tariff is in place allowing eligible customer-generators to enter into		
		10-, 15- or 20-year standard contracts with their utilities to sell the electricity produced by small renewable energy systems – up to 1.5 MW – at time-	
	<u> </u>	ed prices. Regulators have announced that they may	
		. In July, 2009, Assembly Bill 1106 passed a key	
		bill would establish two tiers of incentives for	
		tors selling electricity to utilities up to 5 MW and from	
		incentives in the state for renewable energy include	
		d Investment Tax Credits; local loan programs, local	
		ns, and a public benefits fund for renewables.	
	Renewable resources pr	ovide around 11% of California's electricity, mainly	
		nass, and small hydro. Large investments in	
	-	ology are needed to bring down the price of clean	
	energy if the state it is to meet future renewable targets.		

Target 191

Country/Region	United States – California		
Policy Type	Legislation		
Policy Name/Description	Assembly Bill 1109: 50% reduction in energy use for lighting in indoor		
	residences and state faci	lities and a 25% reduction in energy use for	
	commercial and outdoor	lighting by 2018	
Date Announced	February, 2007		
Target Date	2018		
CO ₂ Abatement Potential	1 MT of abatement in 202	20	
Policy Category	Sector/Industry Specific F	Regulation	
Related Emissions Target(s)	Target 179, Target 180, 7	arget 185 and Target 188	
Supporting Policies:	State public benefits fund	; state green building code; state Energy Star lighting	
Mandates and Incentives	program; state energy ef	ficiency loans program.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	California will phase out i	nefficient lightbulbs as part of AB 1109. In September	
	2008 a Lighting Task For	ce Report was issued, providing a high level of detail	
	about the plan and costs.	about the plan and costs.	
	To achieve the lighting efficiency levels specified in AB 1109, California will		
	apply existing appliance standards to lighting products and will expand		
	incentives for energy-efficient lighting.		
	• •	e is responsible for making "recommendations on	
		·	
	1 .		
I control of the cont	including the adoption of efficiency standards for outdoor lighting.		
	and the second of the second o		
	A		
	-	are in place to support target achievement, including	
	the California Energy Sta	ar Lighting program and the California loans program	
	the California Energy Stafor energy efficiency. The		
Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment	Public Financing: 2 Enforcement: 2 Monitoring: 2 1 California will phase out i 2008 a Lighting Task For about the plan and costs. To achieve the lighting apply existing appliance incentives for energy-efficient The Lighting Task Forcemethods of collection, designations for end of Resources Conservation prescribe, by regulation,	Integrated Plan: 1 Implementation Capacity: 1 Historical Achievement: 1 Inefficient lightbulbs as part of AB 1109. In Septembrace Report was issued, providing a high level of detection of the standards to lighting products and will expansion to the standards of the standards o	

Target 192

Country/Region	United States – Colorado	
Policy Type	Legislation	
Policy Name/Description	House Bill 1281: 20% renewable generation by 2020 for investor-owned	
	utilities; 10% by 2020 for electric cooperatives and municipal utilities.	
Date Announced	March, 2007	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179 and Target 18	30
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state loan programs; state
Mandates and Incentives	grant program; state publ	ic benefits fund.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	Monitoring: 1 Historical Achievement: 1	

Target 193

Country/Region	United States – Connecticut	
Policy Type	Legislation	
Policy Name/Description	10% reduction in greenhouse gas emissions from 1990 levels by 2020; 75% by 2050.	
Date Announced	February, 2005	
Target Date	2020 and 2050	
CO ₂ Abatement Potential	10 MT of abatement in 2020	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates and Incentives	Cap-and-trade under the Regional Greenhouse Gas Initiative (Target 184 and Target 194); state Renewable Portfolio Standard (Target 195); state appliance efficiency standards; state building energy code; energy standards for public buildings; net metering; federal vehicle emissions standard; federal Energy Star homes program.	
Commentary	Connecticut has a detailed Climate Action Plan in place with 55 specific actions on how to reduce emissions in the state. The plan was developed by the Governor's Steering Committee on Climate Change, comprised of members of both the legislative and executive branch of state government. The Steering Committee continues to meet quarterly now that the plan has been released, and a variety of subcommittees are taking further work forward. The plan looks at the impact of both federal and state mandates to ensure that Connecticut meets its targets.	
	Modeling has been conducted on a number of emissions reduction pathways, and scenario results will be released in July 2010. Following that, recommended emissions reduction strategies will be developed for release in 2011.	
	There are a number of supporting policies in place to support Connecticut's greenhouse gas emissions reduction target. These include: regional cap-and-trade under the Regional Greenhouse Gas Initiative, vehicle tailpipe emission standards, and a state Renewable Portfolio Standard. Rebates are also provided for the purchase of newly constructed homes meeting higher energy efficiency standards under the Energy Star homes program.	

Target 194

Country/Region	United States – Connecticut		
Policy Type	Legislation		
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas		
	emissions from the power sector by 2018		
Date Announced	December, 20 th , 2005		
Target Date	2018		
CO ₂ Abatement Potential	Modeled as part of Target 184		
Policy Category	Emissions target: Cap-and-trade		
Supporting Policies: Mandates	Cap-and-trade under RGGI; state Renewable Portfolio Standard (Target 195);		
and Incentives	state appliance efficiency standards; state building energy code; state energy		
	standards for public buildings; net metering; federal vehicle emission standard;		
	federal Energy Star homes program.		
Commentary	Connecticut signed the RGGI Memorandum of Understanding on December, 20 th , 2005. Implementation of RGGI is a part of Connecticut's detailed Climate Change Action Plan, which includes 55 specific actions on how to reduce emissions in the state. The plan was developed by the Governor's Steering Committee on Climate Change, comprised of members of both the legislative and executive branch of state government. The Steering Committee continues to meet quarterly now that the plan has been released, and a variety of subcommittees are taking further work forward. The plan looks at the impact of both federal and state mandates to ensure that Connecticut meets its targets. Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that could inflate the cap and could make the program less effective at reducing the region's emissions through local actions.		
	RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.		

Target 195

Country/Region	United States – Connecticut		
Policy Type	Legislation		
Policy Name/Description	13% of total electricity generation from renewables by 2009; 27% of total		
	electricity generation from	electricity generation from renewables by 2020.	
Date Announced	1998		
Target Date	2009 and 2020		
CO ₂ Abatement Potential	5 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Star	ndard: Electricity	
Related Emissions Target(s)	Target 179, Target 180,	Target 184 and Target 193	
Supporting Policies:	Federal Production and I	nvestment Tax Credits; Regional Greenhouse Gas	
Mandates and Incentives	Initiative auction funds; s	tate clean energy fund; state rebate programs; state	
	building energy code.		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3	
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3	
Overall Risk Assessment	3		
Supporting Commentary	Monitoring: 3 Historical Achievement: 3		

Target 196

Country/Region	United States – Delaware	
Policy Type	Legislation	
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas	
	emissions from the power sector by 2018	
Date Announced	December, 20 th , 2005	
Target Date	2018	
CO ₂ Abatement Potential	Modeled as part of Target 184	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	Cap-and-trade under Regional Greenhouse Gas Initiative (RGGI); state	
and Incentives	Renewable Portfolio Standard (Target 197); state building energy code; state	
	energy standards for public buildings; net metering; public benefits fund; solar	
	access law; federal Energy Star homes program.	
Commentary	Delaware signed the RGGI Memorandum of Understanding on December 20 th ,	
	2005. The state participates through its Department of Natural Resources and	
	Environmental Control and its Public Service Commission.	
	Senate Bill No.263 grants legal authority to Delaware to participate in RGGI,	
	and the state's Regulation No. 1147 set out implementation rules for	
	Delaware's RGGI cap-and-trade program.	
	Under RGGI, regulated power plants will be able to use emissions allowances	
	issued by any of the 10 states in the scheme to demonstrate compliance with	
	the program. There is a detailed plan in place that allows participants to	
	purchase offsets to meet 50% of their emission reductions. There are also	
	some flexibility mechanisms and design elements in the RGGI model that	
	could inflate the cap and could make the program less effective at reducing	
	the region's emissions through local actions.	
	RGGI permits are selling well at auction with 12.5 million sold in the first	
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI	
	sold 32 million permits and the March, 2009, auction – the first since RGGI	
	states' cap-and-trade rules took effect – saw all 32 million allowances sold at	
	the clearing price. The proceeds from these sales are fed back to power	
	utilities to invest in clean technologies and efficiency measures. The fourth	
	auction of allowances in June, 2009, raised \$104.2 million for Investment in	
	the Green Economy in participating states.	

Target 197

Country/Region	United States - Delaware		
Policy Type	Legislation		
Policy Name/Description	Senate Bill 19 (2007): Retail electricity suppliers must purchase 20% of the		
	electricity sold in the state from renewable sources by 2019 (2.005% from		
	solar by 2019)		
Date Announced	2008		
Target Date	2019		
CO ₂ Abatement Potential	5 MT of abatement in 202	0	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180,	Target 184 and Target 245	
Supporting Policies:	Federal Production and Ir	nvestment tax credits; Regional Greenhouse Gas	
Mandates and Incentives	Initiative auction funds; st	ate green energy fund; state grant program.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	Enforcement: 2 Implementation Capacity: 2 Monitoring: 1 Historical Achievement: 2		

Target 198

Country/Region	United States – Florida	
Policy Type	Executive Order	
Policy Name/Description	Executive Order 07-127: Reduce greenhouse gas emissions to 2000 levels by	
	2017 and 1990 levels by 2025; 80% reduction from 1990 levels by 2050.	
Date Announced	July, 2007	
Target Date	2017, 2025 and 2050	
CO ₂ Abatement Potential	10 MT of abatement in 2020	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	State House Bill 7135; state clean car emission rule; state building energy	
and Incentives	code; state energy standards for public buildings; net metering; state solar and	
	wind Access Law; federal vehicle emissions standard; proposed state vehicle	
	emission standard; federal Energy Star homes program.	
Commentary	On July, 13 th , 2007, Florida's Governor Charlie Crist issued Executive Order 07-127 which established statewide emission reduction targets for 2017, 2025, and 2050.	
	A clear strategy with over 50 recommendations to meet the target is in place in the state Climate Action Plan. There is also a well-coordinated Action Team on Energy and Climate Change to oversee progress toward the target.	
	In 2008, House Bill 7135 created the Florida Energy and Climate Commission within the Executive Office of the Governor to centralize energy and climate policy. It requires emitters to report emissions via the Climate Registry. And through the establishment of the Florida State Greenhouse Gas Reduction Scorecard, the state has begun to track greenhouse gas emissions from state-owned vehicles and facilities.	
	A variety of policies are in place that will help Florida achieve its emissions reduction target, including the Florida clean car emission rule. Florida has also proposed adopting tough new standards for vehicle emissions. The new standards would lead to a 6% reduction in emissions from new cars and light trucks sold between 2013 to 2016.	
	Florida has made funding available to support its emissions reduction plan. In January, 2008, Florida's Governor announced a \$200 million energy and economic development budget recommendation focusing on increasing energy efficiency, stimulating renewable development and using markets to reduce greenhouse gas emissions.	

Target 199

Country/Region	United States – Hawaii	
Policy Type	Legislation	
Policy Name/Description	Act 234: Reduce greenhouse gas emissions to 1990 levels by 2020 (25%	
	reduction)	
Date Announced	June, 2007	
Target Date	2020	
CO ₂ Abatement Potential	5 MT of abatement in 2020	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	State Renewable Portfolio Standard (Target 200); state building energy code;	
and Incentives	state energy standards for public buildings; net metering; and federal Energy	
	Star homes program.	
Commentary	In June, 2007, Hawaii's Governor approved House Bill 226 (HB226) establishing a Greenhouse Gas Emissions Reduction Task Force to prepare a work plan and regulatory regime to allow the state to achieve its emissions reduction target. The bill does not describe exactly how this will be achieved; rather it directs the administration to produce appropriate regulations to meet the emissions target.	
	The Greenhouse Gas Emissions Task Force is comprised of representatives from the state government, from business, from academia, and from civil society. It is currently in the process of developing a plan for "maximum practically and technically feasible and cost-effective reductions in greenhouse gas emissions." The plan will be submitted to the Legislature in 2010, allowing 10 years for implementation. Emissions have grown by about 25% since 1990. In support of cutting its	
	emissions have grown by about 25% since 1990. In support of cutting its emissions by a quarter, Hawaii has a Renewable Portfolio Standard, which sets a goal of 40% of electricity from renewables by 2030. A feed-in tariff is in place to support this.	

Target 200

Country/Region	United States – Hawaii		
Policy Type	Legislation		
Policy Name/Description	House Bill 1464: Utilities must source 10% of electricity from renewables by		
	2010, 15% by 2015, 25% by 2020 and 40% by 2030		
Date Announced	2001		
Target Date	2010, 2015, 2020 and 2030		
CO ₂ Abatement Potential	5 MT of abatement in 2020		
Policy Category	Renewable Portfolio Standard: Electricity		
Related Emissions Target(s)	Target 179 , Target 180 and Target 199		
Supporting Policies:	Federal Production and In	vestment tax credits; proposed state feed-in tariff;	
Mandates and Incentives	state grant program; state	Clean Energy Initiative.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	1		
	with an enforceable standard in 2004 and amended again in 2006. The standard has been significantly expanded by legislation passed in 2009. HB 1464 increased the amount of renewable energy generation required by utilities to 40% by 2030. In January, 2008, the US Department of Energy and the State of Hawaii signed a Memorandum of Understanding establishing the Hawaii Clean Energy Initiative. This agreement established an aggressive goal to increase Hawaii's renewable and clean energy production capabilities, and to transition exclusively to renewable energy use on the smaller islands. Hawaii's Public		
	exclusively to renewable energy use on the smaller islands. Hawaii's Public Utilities Commission (PUC) has also proposed feed-in tariff legislation, establishing a 20-year, \$0.70 per kWh feed-in tariff for photovoltaic systems up to 20 MW in size. Hearings were heard in April, 2009 on the tariffs. A detailed plan has been released to implement the Hawaii Clean Energy Initiative with actions including a commitment to integrate 1,100 MW of additional renewable energy on the Hawaiian grids; the construction of an undersea cable connecting Maui, Moloki and Lanai into one electrical grid; and a prohibition on the construction of any new coal plant in Hawaii. An electric utility company and its electric utility affiliates may aggregate their renewable portfolios in order to achieve the renewable portfolio standard (i.e., the Hawaiian Electric Company and its affiliates – Maui Electric Company and Hawaii Electric Light Company – may add together their renewable energy numbers to meet the goal). The PUC has the authority to assess penalties if a supplier fails to comply with the standards.		

Target 201

Country/Region	United States – Illinois
Policy Type	Government aspiration
Policy Name/Description	Reduce greenhouse gas emissions to 1990 levels by 2020 and 60% below
	1990 levels by 2050.
Date Announced	February, 2007
Target Date	2020 and 2050
CO ₂ Abatement Potential	40 MT of abatement in 2020
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates and Incentives	State power sector standard (Target 202); state Renewable Portfolio Standard (Target 203); state energy efficiency standard; state building energy code; state energy standards for public buildings; federal Energy Star homes program.
Commentary	In October, 2006, then-Illinois Governor Rod Blagojevich launched the state's Global Warming Initiative by signing an Executive Order that created the Illinois Climate Change Advisory Group (ICCAG), the first such effort by a Midwest state. As part of the Governor's Global Warming Initiative, Illinois joined New Mexico to become only the second state in the nation to join the Chicago Climate Exchange (CCX). As a CCX member, the state makes a voluntary, but legally binding, commitment to reduce GHG emissions from state buildings and vehicle fleets. In February, 2007, the statewide emission reduction target was formally announced by Governor Blagojevich. Illinois is a member of the Climate Registry, a voluntary North American greenhouse gas tracking system for businesses and governments to document their current levels of greenhouse gas emissions. Illinois has a binding renewable portfolio standard requiring utilities to source 25% of their power from wind and other renewable sources by 2025 and the Governor has also approved an energy efficiency standard requiring utilities to meet 2% of customer energy needs through energy savings by 2015.

Target 202

Country/Region	United States – Illinois		
Policy Type	Legislation		
Policy Name/Description	Clean Coal Portfolio Standard Act: 50% reduction in CO ₂ emissions from		
	power plants between 2009-2015; 70% reduction in emissions for power		
	plants from 2016-2017; 90% reduction in emissions for power plants built after		
	2017.		
Date Announced	January, 2009		
Target Date	2015 and 2017		
CO ₂ Abatement Potential	45 MT of abatement in 2020		
Policy Category	Sector/Industry Specific F	-	
Related Emissions Target(s)	Target 179, Target 180 a		
Supporting Policies:	30-year purchase agreen	nents guaranteed to one initial clean coal facility.	
Mandates and Incentives			
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	From 2009-2015, new coal-fired stations must capture and store 50% of CO ₂		
	1	ilt in 2016-2017, 70% of CO ₂ must be captured and	
	stored. And after 2017, all new plants must capture and store 90% of CO ₂ . In		
	July, 2008, the Illinois House passed SB 1987, also known as the Clean Coal		
	Portfolio Standard Act, which creates a framework for the development of coal		
	gasification projects with carbon capture and storage. To qualify as a clean		
	-	w legislation, a plant must capture at least 50 percent	
		s, as well as limit regulated pollutants, such as sulfur	
	_	carbon monoxide, particulates and mercury, to levels	
	that are no higher than th	ose of natural gas-fired plants.	
	OD 4007 - timeleten ti	and the state of t	
	· ·	nuous monitoring for storage sites. Compliance with	
	1 .	nts and offset purchase requirements will be reviewed	
		dent expert retained by the owner of the initial clean	
	Coal facility, with the adva	ance written approval of the Attorney General.	
	If utilities cannot demon	strate compliance, they must obtain offsets that are	
		· · · · · · · · · · · · · · · · · · ·	
	permanent, additional, verifiable, real, located within the state of Illinois, and		
	legally and practically enforceable.		
	Illinois has a history of I	being able to unlock significant action quickly. From	
	2006 to 2007 it increased its renewables capacity by about 250%. Exelon – a		
	large Illinois electric and gas utility – has a plan in place to reduce, offset or		
	displace over 15 MT of greenhouse gas emissions per year by 2020.		

Target 203

Country/Region	United States – Illinois		
Policy Type	Legislation	Legislation	
Policy Name/Description	10% of electricity genera	tion from renewables by 2015; 25% of electricity	
	generation from renewables by 2025 (with 75% of that from wind)		
Date Announced	May, 2007		
Target Date	2015 and 2025		
CO ₂ Abatement Potential	Not applicable in 2012 ar	nd 2020	
Policy Category	Renewable Portfolio Star	ndard: Electricity	
Related Emissions Target(s)	Target 179, Target 180	and Target 201	
Supporting Policies:	Federal Production and I	nvestment Tax Credits; state bond program; state	
Mandates and Incentives	grant programs; state rel	pate programs; state public benefits fund; net	
	metering.		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary			
	Illinois increased its renewable capacity by about 250% between 2006 and 2007. While it was growing from a small base, it was on track to meet the 2008 target by 2007.		

Target 204

Country/Region	United States – Indiana		
Policy Type	Proposed legislation		
Policy Name/Description	Senate Bill 420: 15% of electricity generation from renewable sources by 2025		
Date Announced	April, 2009		
Target Date	2025		
CO ₂ Abatement Potential	1 MT of abatement in 202	0	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179 and Target 180		
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state grant program; net	
Mandates and Incentives	metering; proposed feed-	in tariffs.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3	
Overall Risk Assessment	2		
Overall Risk Assessment Supporting Commentary			
	fund" administered by the penalties will be sufficient According to the Energy I	nformation Administration, Indiana currently of its power from renewables, and it increased this	

Target 205

Country/Region	United States – Kentucky		
Policy Type	Government aspiration		
Policy Name/Description	25% of total energy needs should be met through energy efficiency and		
	conservation measures and renewable electricity by 2025.		
Date Announced	November, 2008		
Target Date	2025		
CO ₂ Abatement Potential	5 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179 and Target 180		
Supporting Policies:	Federal Production and Investment Tax Credits; state rebate programs; state		
Mandates and Incentives	loan programs.		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3	
Overall Risk Assessment	2		
Supporting Commentary	Energy Choices for Ker November, 2008. The pla Standard (REPS) for Ke Kentucky's energy needs energy resources. The Ac \$12 billion of annual fund appropriated. The target non-compliance.	omplements Gov. Beshear's energy plan, "Intelligent natucky's Future", which was publicly introduced in an recommends a Renewable and Efficiency Portfolio natucky. The REPS proposes that by 2025, 25% of a should be met by energy efficiency and renewable extion Plan is still in consultation. In will be required under the plan, but has not been is not binding and there are no sanctions or fines for experience with climate targets, and has grown its	
	•	pacity negligibly 2003 and 2007	

Target 206

Country/Region	United States – Maine
Policy Type	Legislation
Policy Name/Description	Act to Provide Leadership in Addressing the Threat of Climate Change: 10%
	reduction in greenhouse gas emissions from 1990 levels by 2020; 75-80%
	below 2003 levels in the long-term.
Date Announced	June, 2003
Target Date	2020
CO ₂ Abatement Potential	5 MT abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates and Incentives	Cap-and-trade scheme under the Regional Greenhouse Gas Initiative (Target 184 and Target 207); state Renewable Portfolio Standards (Target 208 and
	Target 209); state energy conservation standards for buildings; state solar access law; federal Energy Star homes program.
Commentary	Subsequent to the enactment of the Act to Provide Leadership in Addressing the Threat of Climate Change, the state of Maine developed an Action Plan with 54 actions to take to meet its emissions target. The state's Department of Environmental Protection is monitoring progress on a biannual basis and is also required by law to create an annual statewide greenhouse gas inventory. Maine is a member of the Regional Greenhouse Gas Initiative (RGGI). Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that could inflate the cap and could make the program less effective at reducing the region's emissions through local actions.
	RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.

Target 207

Country/Region	United States – Maine
Policy Type	Legislation
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas emissions from the power sector by 2018
Date Announced	December, 2005
Target Date	2018
CO ₂ Abatement Potential	Modeled as part of Target 184
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates and Incentives	Cap-and-trade scheme under the Regional Greenhouse Gas Initiative (RGGI); state Renewable Portfolio Standards (Target 208 and Target 209); state energy conservation standards for buildings; state solar access law; federal Energy Star homes program.
Commentary	Maine's Governor signed the RGGI initiative in December, 2005, and the Maine Climate Action Plan developed in 2004 had identified participation in RGGI as one of the most important actions Maine could take to reduce greenhouse gas emissions.
	Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that could inflate the cap and could make the program less effective at reducing the region's emissions through local actions.
	RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.

Target 208

Country/Region	United States - Maine		
Policy Type	Legislation		
Policy Name/Description	10% of electricity generation from renewables by 2017		
Date Announced	2006/2007		
Target Date	2017		
CO ₂ Abatement Potential	No impact on BAU in 2012 and 1 MT of abatement in 2020		
Policy Category	Renewable Portfolio Standard: Electricity		
Related Emissions Target(s)	Target 179, Target 180, Target 206 and Target 207		
Supporting Policies:	Federal Production and Investment Tax Credits; Regional Greenhouse Gas		
Mandates and Incentives	Initiative auction proceed	s; state generation information system certificates;	
	state grant program; state	e rebate program.	
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	Monitoring: 1 Historical Achievement: 1		

Target 209

A/ L 0000	
A/ I 0000	
N by 2020	
February, 2008	
ouse Gas	
ertificates;	
2	
Monitoring: 2 Historical Achievement: 2 Maine's task force on Wind Power submitted a final report early in 2008 that shows that there is potential for at least 300 MW of the 2020 goal to be achieved with offshore wind projects. The report also highlighted that Maine has as much onshore wind resource as the rest of New England combined, and should therefore be a leader in wind power. As of January, 2009, Maine had met 5% of its 2015 goal with 103.5 MW of installed capacity. This could rise to 18% of the 2015 goal with the addition of 272.5 MW of wind projects currently in development stage and 34% of the target could be met if an additional 309.5 MW of wind projects currently in the discussion phase are constructed. Beginning in January, 2009, Efficiency Maine is offering rebates for small wind energy installations for Maine residents and businesses. Residents can qualify for rebates worth up to \$2,000 and businesses can qualify for rebates up to \$4,000. In addition, as part of a pilot program, projects that meet the highest standards for siting and height can qualify for an added \$2,000 benefit.	
errender of the second of the	

Target 210

Country/Region	United States – Maryland	
Policy Type	Legislation	
Policy Name/Description	Greenhouse Gas Reduction Act of 2009: 25% reduction in greenhouse gas	
	emissions from 2006 levels by 2020	
Date Announced	March, 2009	
Target Date	2020	
CO ₂ Abatement Potential	25 MT of abatement in 2020	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	Cap-and-trade scheme under the Regional Greenhouse Gas Initiative (Target	
and Incentives	184 and Target 211); state Renewable Portfolio Standard (Target 212); state	
	clean cars act; Empower Maryland; state appliance efficiency standards; state	
	building energy code; federal Energy Star homes program.	
Commentary	The Greenhouse Gas Reduction Act of 2009 requires the state to reduce greenhouse gas emissions 25% from 2006 levels by 2020. By 2011, the Department of Environment must: Develop a 2006 Statewide greenhouse gas emissions inventory; develop a projected business-as-usual emissions inventory for 2020; and develop and publish for public comment a proposed plan to achieve the emissions reduction.	
	A final greenhouse gas emission reduction plan must be adopted by 2012. The plan must include regulations implementing all plan measures for which state agencies have existing statutory authority and a timeline for seeking any additional legislative authority necessary to fully implement the plan.	
	Developing the plan may be difficult, in light of restrictions included in the newly-signed act. In the absence of new federal laws or regulations for reducing greenhouse gas emissions, the act prohibits state agencies from requiring the state's manufacturing sector to reduce their greenhouse gas emissions. State agencies are also prohibited from implementing policies that would cause a significant increase in costs for the state's manufacturing sector.	
	Maryland has an existing Climate Action Plan in place drawn up by the Climate Change Commission, which details 42 options to reduce greenhouse gas emissions.	
	Recent state initiatives, including membership of the RGGI cap-and-trade program, Clean Cars Act, and Empower Maryland have put the state on track to reduce emissions by 12.5%.	

Target 211

Country/Region	United States – Maryland	
Policy Type	Legislation	
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas	
	emissions from the power sector by 2018	
Date Announced	April, 2007	
Target Date	2018	
CO ₂ Abatement Potential	Modeled as part of Target 184	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	Cap-and-trade scheme under the Regional Greenhouse Gas Initiative (RGGI);	
and Incentives	state Renewable Portfolio Standard (Target 212); state clean cars act;	
	Empower Maryland; state appliance efficiency standards; state building energy	
	code; federal Energy Star homes program.	
Commentary	Maryland's Governor signed the RGGI scheme on April, 20 th , 2007, making it	
	the 10 th state to sign the initiative.	
	The state is in the process of developing a new plan for meeting emission	
	reductions and this is expected to be ready in 2011. The state has an existing	
	Climate Action Plan in place drawn up by the Climate Change Commission,	
	which details 42 options to reduce greenhouse gas emissions.	
	Under RGGI, regulated power plants will be able to use emissions allowances	
	issued by any of the 10 states in the scheme to demonstrate compliance with	
	the program. There is a detailed plan in place that allows participants to	
	purchase offsets to meet 50% of their emission reductions. There are also	
	some flexibility mechanisms and design elements in the RGGI model that	
	could inflate the cap and could make the program less effective at reducing	
	the region's emissions through local actions.	
	RGGI permits are selling well at auction with 12.5 million sold in the first	
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI	
	sold 32 million permits and the March, 2009, auction - the first since RGGI	
	states' cap-and-trade rules took effect - saw all 32 million allowances sold at	
	the clearing price. The proceeds from these sales are fed back to power	
	utilities to invest in clean technologies and efficiency measures. The fourth	
	auction of allowances in June, 2009, raised \$104.2 million for Investment in	
	the Green Economy in participating states.	

Target 212

Country/Region	United States - Maryland		
Policy Type	Legislation		
Policy Name/Description	Senate Bill 595: Provide 1% of retail sales from Tier 1 renewables and 2.5%		
	from Tier 2 in 2006, gradually increasing to reach a level of 20% from Tier 1 in		
	2022 and 2.5% from Tier 2 by 2018.		
Date Announced	2004, revised in 2008 and	d 2009	
Target Date	2018 and 2022		
CO ₂ Abatement Potential	5 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180, T	arget 184, Target 210 and Target 211	
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; Regional Greenhouse Gas	
Mandates and Incentives	Initiative auction proceeds	s; state grant program; state rebate program.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary			

Target 213

Country/Region	United States – Massachusetts		
Policy Type	Legislation		
Policy Name/Description	Massachusetts Global Warming Solutions Act: 10-25% reduction in		
	greenhouse gas emissions below 1990 levels by 2020; 75-85% below 1990		
	levels in the long-term.		
Date Announced	2008		
Target Date	2020 onwards		
CO ₂ Abatement Potential	20 MT of abatement in 2020		
Policy Category	Emissions target: Cap-and-trade		
Supporting Policies: Mandates	Cap-and-trade scheme under the Regional Greenhouse Gas Initiative (Target		
and Incentives	184 and Target 214); state Renewable Portfolio Standards (Target 215);		
	Biofuels Act, 2008; state appliance efficiency standards; state green building		
	strategy; net metering; federal Energy Star Homes Program.		
Commentary	The Global Warming Solutions Act was passed in the summer of 2008, setting		
	long-term statewide greenhouse gas emissions reduction targets of 10-25% by		
	2020 and 80% by 2050. As part of the act, the Executive Office of Energy and		
	Environmental Affairs has been instructed to produce a plan every 5 years for		
	emissions reductions, compliance mechanisms, and appropriate incentives.		
	A climate roadmap is to be published as a blueprint to ensure reductions		
	happen.		
	Massachusetts has developed a number of policies to support its emissions		
	reduction target, including a state renewable portfolio standard, participation in		
	the RGGI cap-and-trade scheme, appliance efficiency standards, a green		
	building code, and a Biofuels Act that will come into force in 2010. The		
	Biofuels Act will stipulate a minimum percentage of biofuels and bioheat in the		
	Massachusetts energy mix.		

Target 214

Country/Region	United States - Massachusetts	
Policy Type	Legislation	
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas emissions from the power sector by 2018	
Date Announced	January, 2007	
Target Date	2018	
CO ₂ Abatement Potential	Modeled as part of Target 184	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates and Incentives	Cap-and-trade scheme under the Regional Greenhouse Gas Initiative (RGGI); state Renewable Portfolio Standards (Target 215); Biofuels Act, 2008; state appliance efficiency standards; state green building strategy; net metering; federal Energy Star Homes Program.	
Commentary	Massachusetts Governor Deval Patrick signed the RGGI cap-and-trade scheme in January, 2007, committing the state to a regional effort to reduce greenhouse gas emissions in the power sector. Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that could inflate the cap and could make the program less effective at reducing the region's emissions through local actions.	
	RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.	

Target 215

Country/Region	United States - Massac	husetts	
Policy Type	Legislation		
Policy Name/Description	15% of electricity retail sa	les from renewable sources by 2020 and an	
	additional 1% of sales from renewable sources each year thereafter.		
Date Announced	1997, revised June, 2008		
Target Date	2020		
CO ₂ Abatement Potential	10 MT of abatement in 20	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180, T	arget 184, Target 213 and Target 214	
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; Regional Greenhouse Gas	
Mandates and Incentives	Initiative auction proceeds	s; state solar rebate program; state loan program;	
	state public benefit fund.		
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	additional 1% each year is given on how to achie history of achievement, call In January, 2009, the (DOER) released regular alternative energy technological program for solar power to Massachusetts Retail Eleguly 1st of each year demorevious calendar year. Renergy Resource Report Any retail electricity suppregulations to comply we discharge some or all of Payment (ACP) in the appark Corporation. The ACD per MWh. The MTC will pof the receipts would be Annual Compliance Filing	setts overachieved its target, in each of the previous	

Target 216

Country/Region	United States – Michiga	n	
Policy Type	Legislation		
Policy Name/Description	Senate Bill 213: 10% of e	lectricity generation from all utilities from renewable	
	sources by 2015		
Date Announced	October, 2008		
Target Date	2015		
CO ₂ Abatement Potential	1 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179 and Target 18	0	
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state feed-in tariff; state	
Mandates and Incentives	rebate program; state loa	n program; state public benefit fund; state tax	
	credits; net metering.		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	1		
Supporting Commentary	energy portfolio and a rol Utilities are responsible f Michigan Public Service what the plan should inclu The bill includes an inc investments in renewable allows customers to sell businesses to their utility eligible for a sliding scale producing 700 kWh/m²/y \$0.08/kWh for systems utilities to use energy of meet a limited portion of t Compliance with the star Credits (RECs) with or provides triple credits for extra credits for renewable Michigan or from systems renewable power general stored and provided to the	come tax credit to offset a portion of ratepayers' e energy for Michigan and a net metering law that renewable electricity they produce at their homes or companies. Michigan also has feed-in tariffs. Wind is e of payments that start at \$0.105/kWh for systems year of rotor swept area and progress down to producing 1,100 kWh/m²/year. The standard allows obtimization and advanced clean energy systems to the requirement. Indiand can be met by purchasing Renewable Energy without the associated renewable energy. The bill power generated by solar power systems and partial the power generated from equipment manufactured in a constructed by a Michigan workforce, as well as for ted at peak times or generated at off-peak times but the grid at peak times. Indiand can be met by purchasing Renewable Energy without the associated renewable energy. The bill power generated by solar power systems and partial the power generated from equipment manufactured in the seconstructed by a Michigan workforce, as well as for the grid at peak times or generated at off-peak times but the grid at peak times.	

Target 217

Country/Region	United States – Michiga	ın	
Policy Type	Legislation		
Policy Name/Description	Natural gas utilities must improve efficiency by 0.5% per year by 2011;		
	electricity providers must improve efficiency by 0.75% per year by 2011.		
Date Announced	October, 2008		
Target Date	2011		
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 2020	
Policy Category	Sector/Industry Specific F	Regulation	
Related Emissions Target(s)	Target 179 and Target 18	30	
Supporting Policies:	Shareholder incentives; s	tate energy efficiency grants; state public benefits	
Mandates and Incentives	fund.		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	1		
Supporting Commentary	A multi-year phase-in of these efficiency measures has been developed under the Renewable Sources Act of 2008, including methods of cost recovery and limits on cost.		
	The standard allows for "shareholder incentives" for utilities that exceed energy savings requirements. One company has already filed plans to establish a major energy efficiency program to meet the state's goals.		
	Authority for implementation has been granted to the Michigan Public Service Commission. While the Public Service Commission is granted wide-ranging authority to supervise implementation, the level of penalties for non-compliance, and the robustness with which they will be enforced, remains to be seen, as this target is early in implementation.		

Target 218

Country/Region	United States – Minnesota	
Policy Type	Legislation	
Policy Name/Description	Next Generation Energy Act of 2007: 15% reduction in greenhouse gas	
	emissions below 2005 levels by 2015; 30% reduction by 2025; 80% reduction	
	by 2050.	
Date Announced	May, 25 th , 2007	
Target Date	2015, 2025 and 2050	
CO ₂ Abatement Potential	25 MT of abatement in 2020	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	State Renewable Portfolio Standard (Target 219); state building energy code;	
and Incentives	state solar and wind access law; state conservation improvement program; net	
	metering; federal Energy Star homes program.	
Commentary	The Next Generation Energy Act of 2007, signed by Minnesota's Governor	
	Tim Pawlenty on May, 25 th , 2007, outlines the goals for statewide greenhouse	
	gas emissions reductions. A detailed Climate Action Plan is in place along with	
	a dedicated Climate Change Advisory Board for Minnesota.	
	The Climate Change Advisory Board includes representatives from local	
	government, business, academia, and civil society. In thee Climate Action	
	Plan they developed, they recommend 46 policy actions to reduce greenhouse	
	gas emissions.	
	In a January, 2009, a progress report submitted to the Minnesota Legislature	
	by the state's Department of Commerce stated that greenhouse gas emissions	
	reached a peak in the state in 2005, at 154MT CO ₂ e and are starting to	
	decline. It is likely that emissions will continue to decline thanks to actions	
	including Minnesota's Conservation Improvement Program, the state's	
	Renewable Portfolio Standard and membership of the Midwestern Regional	
	Greenhouse Gas Reduction Accord.	

Target 219

Country/Region	United States – Minnesota		
Policy Type	Legislation		
Policy Name/Description	Senate Bill 4: 25% of utility electricity generation from renewable sources by 2025 (30% by 2020 for Xcel)		
Date Announced	2002		
Target Date	2025		
CO ₂ Abatement Potential	10 MT of abatement in 20	020	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180 a	nd Target 218	
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; proposed state feed-in tariff;	
Mandates and Incentives	state renewable developr	ment fund; state rebate and grant programs.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	1		
Supporting Commentary	Renewable Portfolio Star RPS for other electric utility Minnesota's RPS is similitrates for geothermal porsystem with 1,000 square the bill to encourage deplement of the bill to encourage dep	lar in structure to Michigan's, although there are no wer included and small wind power is limited to a e feet of swept area or less, reducing the potential of	

Target 220

Country/Region	United States – Missouri	
Policy Type	Legislation	
Policy Name/Description	Missouri Clean Energy Initiative (Senate Bill 54): 15% of electricity generation	
	must come from renewables by 2021. There are incremental targets between	
	now and 2021, including	a 3% target by 2012, 7% by 2015 and 10% by 2020.
Date Announced	November, 2008	
Target Date	2012, 2015, 2020 and 20	21
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Star	dard: Electricity
Related Emissions Target(s)	Target 179 and Target 18	30
Supporting Policies:	Federal Production and In	nvestment Tax Credits; state solar power rebates and
Mandates and Incentives	tax credits; state energy I	oan program.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	Missouri's plans were pa	ssed as part of "Proposition C", a voter initiative that
	repealed the previous voluntary standard in 2008. Much of the detail of the	
	program was left to be worked out by the Public Services Commission and the	
	Department of Natural Re	esources.
	Utilities are expected to make a "good faith effort" to meet the target. Utilities	
		quirement have to pay twice the going rate of the
	renewable energy credits (RECs) needed for compliance, and the state will	
	<u> </u>	RECs and to support renewable energy and energy
	efficiency. To limit the impact of the measure on consumers, the cost impact of	
	complying with the renewable energy requirement is capped at a 1 percent	
	cost increase.	
	Solar nower rebates and	d tax credits are in place, but Missouri's renewable
	·	•
	policy has been characterized by volatility. Missouri also has an Energy Loan	
	Program through which schools and local governments can get very low interest loans to purchase solar power equipment.	
	Interest loans to purchase	s solal power equipment.

Target 221

Country/Region	United States – Montana		
Policy Type	Legislation		
Policy Name/Description	Western Climate Initiative (WCI): 15% reduction in greenhouse gas emissions		
	below 2005 levels by 2020		
Date Announced	November, 19 th , 2007		
Target Date	2020		
CO ₂ Abatement Potential	Modeled as part of Target 185		
Policy Category	Emissions target: Cap-and-trade		
Supporting Policies: Mandates	Cap-and-trade scheme under Western Climate Initiative (WCI); state		
and Incentives	Renewable Portfolio Standard (Target 222)		
Commentary	Montana signed the Western Climate Initiative agreement on November, 19 th , 2007, becoming the 7 th US state to do so. In the Initiative's Memorandum of Understanding, WCI members agreed to jointly set a regional emissions target and establish a market-based system to aid in meeting the target.		
	The Western Climate Initiative builds upon the West Coast Governor's Global Warming Initiative of 2003, which California signed with Oregon and Washington. The program will be implemented in two phases. Beginning on January 1 st , 2012, emissions from electricity generation and large industrial and commercial sources will be covered. In the second phase, beginning in January, 2015, the program will expand to cover emissions from transportation and residential, commercial, and industrial fuel use not otherwise covered.		

Target 222

Country/Region	United States – Montan	а	
Policy Type	Legislation		
Policy Name/Description	Montana Renewable Pov	ver Production and Rural Economic Development	
	Act: 5% of retail electricity sales from eligible renewables for 2008-2009, 10%		
	for 2010-2014, and 15% for 2015 and each year thereafter.		
Date Announced	April, 2005		
Target Date	2009, 2014 and 2015		
CO ₂ Abatement Potential	1 MT of abatement in 201	2	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180, T	arget 185 and Target 221	
Supporting Policies:	Federal Production and Ir	nvestment tax credits; Montana loan program;	
Mandates and Incentives	Montana grant program; I	Net Metering; Public Benefits Fund.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	of the Montana Rene Development Act (Ser requirements to stimulat provisions for community energy projects under a controlling interest. For compliance year 201 purchase both the Rene output from community renameplate capacity. For utilities must purchase community renewable er capacity. In addition, pul preference for Montana we for within the bill and leave of the state. The Public Utilities Community renewable community renewable er capacity.	Montana's renewable portfolio standard (RPS), enacted in April, 2005, as part of the Montana Renewable Power Production and Rural Economic Development Act (Senate Bill 415), includes specific procurement requirements to stimulate rural economic development. The RPS includes provisions for community renewable energy projects, defined as renewable energy projects under 25 megawatts (MW) where local owners have a controlling interest. For compliance year 2011 through compliance year 2014, public utilities must purchase both the Renewable Energy Credits (RECs) and the electricity output from community renewable energy projects totaling at least 50 MW in nameplate capacity. For compliance year 2015 and each following year, utilities must purchase both the RECs and the electricity output from community renewable energy projects totaling at least 75 MW in nameplate capacity. In addition, public utilities must enter into contracts that include a preference for Montana workers. A renewable energy tracking system is called for within the bill and leaves the option open to trade renewable credits outside of the state. The Public Utilities Commission is responsible for assessing a penalty of \$10/MWh for non-compliance.	

Target 223

Country/Region	United States - Nevada	
Policy Type	Legislation	
Policy Name/Description	Gibbons' Law (SB 395): 20% of electricity from renewable sources by 2015;	
	25% by 2025.	
Date Announced	1999; revised June, 2009	
Target Date	2015 and 2025	
CO ₂ Abatement Potential	5 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179 and Target 18	0
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state rebate program; state
Mandates and Incentives	tax abatements; state Ter	mporary Renewable Energy Development Program.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	1	
Supporting Commentary	Gibbons' SB 395 was sig	ned into law in June, 2009. Gibbons law is part of a
	package of measures ain	ned at transforming Nevada into a renewable energy
	exporter. The law also:	extends sales and property tax abatements for
	wholesale renewable energy projects in the state above 10 MW in size;	
	establishes rebates for 2 MW of solar at schools; establishes a more efficient	
	30 day application approval process for the state's Solar Generations	
	program; and requires that 6% of the Renewable Portfolio Standard (RPS)	
	come from solar resources beginning 2016.	
	Nevada has developed a detailed plan with a series of interim targets to meet the RPS. A wide range of underlying initiatives accompany the plan. To help spur renewable projects, Nevada's Public Utilities Commission (PUC) established the Temporary Renewable Energy Development (TRED) Program, which ensures prompt payment to renewable energy providers.	
	sell portfolio energy cr requirements. One PEC generated by a portfolio (PV), for which 2.4 PEC produced. A generator th a detailed explanation o would support its exempti	ished a program to allow energy providers to buy and edits (PECs) in order to meet energy portfolio represents one kilowatt-hour (kWh) of electricity energy system, with the exception of photovoltaics Cs are credited per one actual kWh of electricity at fails to comply with the RPS is required to provide f its noncompliance, including any information that on from fines or other administrative action.
	_	enerated 10.1% of its electricity generation from rding to the Energy Information Administration.

Target 224

Country/Region	United States - New Hampshire	
Policy Type	Government aspiration	
Policy Name/Description	Reduce greenhouse gas emissions to 1990 levels by 2010; 10% below 1990	
	levels by 2020; 75-85% below 2005 levels by 2050.	
Date Announced	March, 2009	
Target Date	2010, 2020 and 2050	
CO ₂ Abatement Potential	5 MT of abatement in 2020	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (Target 184	
and Incentives	and Target 225); state Renewable Portfolio Standard (Target 226); state	
	building codes; federal Energy Star homes program.	
Commentary	The New Hampshire Governor's Climate Change Task Force released its final	
	plan to reduce greenhouse gas emissions and increase renewable energy use	
	in the state in March, 2009. The plan sets out a systematic approach to	
	achieving this goal. It includes 67 different recommendations with the long	
	term goal of achieving an 80% reduction in greenhouse gas emissions below	
	1990 levels by the year 2050.	
	There is a designated Climate Task Force with roles defined to implement the	
	target. Among the recommendations, the plan calls for a maximization of	
	energy efficiency in buildings, an increase in renewable and low carbon-	
	emitting sources of energy, and a reduction in vehicle emissions through state	
	actions.	
	New Hampshire has a number of policies in place to help achieve its	
	emissions target, including a state renewable portfolio standard, involvement	
	in the Regional Greenhouse Gas Initiative (RGGI) cap-and-trade scheme, and	
	state building codes and energy standards. Under RGGI, regulated power	
	plants will be able to use emissions allowances issued by any of the 10 states	
	in the scheme to demonstrate compliance with the program. There is a	
	detailed plan in place that allows participants to purchase offsets to meet 50%	
	of their emission reductions.	
	RGGI permits are selling well at auction with 12.5 million sold in the first	
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI	
	sold 32 million permits and the March, 2009, auction – the first since RGGI	
	states' cap-and-trade rules took effect – saw all 32 million allowances sold at	
	the clearing price. The proceeds from these sales are fed back to power	
	utilities to invest in clean technologies and efficiency measures. The fourth	
	auction of allowances in June, 2009, raised \$104.2 million for Investment in	
	the Green Economy in participating states.	

Target 225

Country/Region	United States - New Hampshire
Policy Type	Legislation
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas emissions from the power sector by 2018
Date Announced	December, 20 th , 2005
Target Date	2018
CO ₂ Abatement Potential	Modeled as part of Target 184
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (RGGI);
and Incentives	state Renewable Portfolio Standard (Target 226); state building codes; federal
	Energy Star homes program.
Commentary	The Governor of New Hampshire signed the RGGI initiative on December 20 th , 2005. There is a designated Climate Task Force with roles defined to implement actions to reduce greenhouse gas emissions in the state. Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that
	could inflate the cap and could make the program less effective at reducing the region's emissions through local actions. RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.

Target 226

Country/Region	United States - New Ha	mpshire
Policy Type	Legislation	
Policy Name/Description	23.8% of electricity from renewable sources by 2025	
Date Announced	May, 2007	
Target Date	2025	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179, Target 180, T	arget 184, Target 224 and Target 225
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; Regional Greenhouse Gas
Mandates and Incentives	Initiative auction proceeds	s; state rebate program; state Climate Action Plan.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	Monitoring: 1 Historical Achievement: 1	
	this law to support renewal In 2007, 10.3% of power of	tents to a new renewable energy fund established by able energy initiatives. came from renewable sources in the state according Administration, with 4.8% of this from non-hydro

Target 227

Country/Region	United States - New Jersey
Policy Type	Legislation
Policy Name/Description	Reduce greenhouse gas emissions to 1990 levels by 2020; 80% reduction
	from 2006 levels by 2050.
Date Announced	2007
Target Date	2020 and 2050
CO ₂ Abatement Potential	20 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (Target 184
and Incentives	and Target 228); state Renewable Portfolio Standard (Target 229); state
	appliance efficiency standards; state building codes; net metering; federal
	Energy Star homes program.
Commentary	New Jersey has developed a robust integrated plan for meeting its emissions
	reduction target, charging the Department of Environmental Protection, the
	Board of Public Utilities, the Department of Transportation and Department of
	Community Affairs to evaluate methods to achieve – and even overachieve –
	2020 target reductions. This evaluation has been conducted in conjunction
	with the state's energy master plan.
	The Department of Environmental Protection has developed a greenhouse
	gas emissions inventory as well as a system for monitoring emissions levels
	so progress is accurately tracked. The Department reports progress at least
	every two years. The Department of Environmental Protection is also charged
	with recommending actions if it appears that the state will fall behind target
	A variety of robust policies have been put in place to allow New Jersey to meet
	its emissions reduction target, including one of the most robust state
	Renewable Portfolio Standard regimes in the United States. New Jersey is
	also a signatory to the RGGI cap-and-trade scheme. Under RGGI, regulated
	power plants will be able to use emissions allowances issued by any of the 10
	states in the scheme to demonstrate compliance with the program. There is a
	detailed plan in place that allows participants to purchase offsets to meet 50%
	of their emission reductions.
	RGGI permits are selling well at auction with 12.5 million sold in the first
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI
	sold 32 million permits and the March, 2009, auction - the first since RGGI
	states' cap-and-trade rules took effect - saw all 32 million allowances sold at
	the clearing price. The proceeds from these sales are fed back to power
	utilities to invest in clean technologies and efficiency measures. The fourth
	auction of allowances in June, 2009, raised \$104.2 million for Investment in
	the Green Economy in participating states.

Target 228

Country/Region	United States - New Jersey
Policy Type	Legislation
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas
	emissions from the power sector by 2018
Date Announced	December, 20 th , 2005
Target Date	2018
CO ₂ Abatement Potential	Modeled as part of Target 184
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (RGGI);
and Incentives	state Renewable Portfolio Standard (Target 229); state appliance efficiency
	standards; state building codes; net metering; federal Energy Star homes
	program.
Commentary	New Jersey's Governor signed the RGGI initiative in December, 2005. RGGI
	is part of the state's broader strategy, which has been developed and is being
	implemented by the Department of Environmental Protection, the Board of
	Public Utilities, the Department of Transportation and Department of
	Community Affairs.
	Under RGGI, regulated power plants will be able to use emissions allowances
	issued by any of the 10 states in the scheme to demonstrate compliance with
	the program. There is a detailed plan in place that allows participants to
	purchase offsets to meet 50% of their emission reductions. There are also
	some flexibility mechanisms and design elements in the RGGI model that
	could inflate the cap and could make the program less effective at reducing
	the region's emissions through local actions.
	RGGI permits are selling well at auction with 12.5 million sold in the first
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI
	sold 32 million permits and the March, 2009, auction – the first since RGGI
	states' cap-and-trade rules took effect – saw all 32 million allowances sold at
	the clearing price. The proceeds from these sales are fed back to power
	utilities to invest in clean technologies and efficiency measures. The fourth
	auction of allowances in June, 2009, raised \$104.2 million for Investment in
	the Green Economy in participating states.

Target 229

Policy Name/Description 22.5 other Date Announced Sep Target Date 202	er Class I renewables; ptember, 2001, revised	ewables by 2020 (2.12% from solar; 17.88% from 2.5% from Class II or additional Class I renewables)	
Date Announced Sep Target Date 202	er Class I renewables; ptember, 2001, revised	2.5% from Class II or additional Class I renewables)	
Date AnnouncedSepTarget Date202	ptember, 2001, revised	·	
Target Date 202			
	20	September, 2001, revised 2007.	
CO Abetement Detected			
CO ₂ Abatement Potential 15 N	MT of abatement in 202	20	
Policy Category Ren	newable Portfolio Stand	dard: Electricity	
Related Emissions Target(s) Target	get 179, Target 180, Ta	arget 184, Target 227 and Target 228	
Supporting Policies: Fed	deral Production and Inv	vestment Tax Credits; Regional Greenhouse Gas	
Mandates and Incentives Initia	ative auction proceeds	; state rebate program; state tax exemptions.	
Investor Risk Assessment Ince	entives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5) Pub	olic Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate Enfo	orcement: 1	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3 Mor	nitoring: 1	Historical Achievement: 1	
Overall Risk Assessment 1			
Unit targ sola resc Profuel A variable Remands com Nev esp yea and sola sola target reports and the resc Profuel rescaled to the rescaled rescale	Monitoring: 1 Historical Achievement: 1		

Target 230

Country/Region	United States - New Mexico	
Policy Type	Executive Order	
Policy Name/Description	Executive Order 05-033: Reduce greenhouse gas emissions to 2000 levels by	
	2012; 10% reduction in greenhouse gas emissions from 2000 levels by 2020;	
	75% below 2000 levels by 2050.	
Date Announced	June, 2005	
Target Date	2012, 2020 and 2050	
CO ₂ Abatement Potential	60 MT of abatement in 2020	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	Cap-and-trade scheme under Western Climate Initiative (WCI); state	
and Incentives	Renewable Portfolio Standard (Target 231); state building code; net metering;	
	federal Energy Star Homes Program.	
Commentary	New Mexico's Governor Bill Richardson signed Executive Order 05-033 in	
	June, 2005, spelling out emissions reduction strategies to address climate	
	change in the state.	
	New Mexico has a mandatory emission reporting requirement and is a	
	signatory of the Climate Registry and the WCI cap-and-trade scheme.	
	In March, 2009, the Governor announced that the state will receive \$20 million	
	for energy efficiency and conservation projects as part of the American	
	Recovery and Reinvestment Act of 2009.	

Target 231

Country/Region	United States – New Me	xico
Policy Type	Legislation	
Policy Name/Description	Senate Bill 418: 10% of electricity to be derived from renewables by 2011; 15% by 2015 and 20% by 2020	
Date Announced	March, 2007	
Target Date	2011; 2015 and 2020	
CO ₂ Abatement Potential	5 MT of abatement in 201	2
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179, Target 180 ar	
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; Regional Greenhouse Gas
Mandates and Incentives	· ·	s; state tax credits; state rebate program; state Solar ome Tax Credit; state Solar Rights Act.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	to generate 20% of total targets of 10% by 2012 Regulation Commission target be met through a defined as a minimum of either biomass or geoth distributed renewables by Supporting policies in plant production tax credits, and Development Income Tax credit with a cap at \$900 home owners association installation of solar pane building solar thermal plant credit to companies production to companies production tax credits with a cap at \$900 home owners association installation of solar pane building solar thermal plant credit to companies produced through the Governor Bill Richardson Reinvestment have annoted the U.S. Department of Reinvestment Act will be a solution of the U.S. Department of Reinvestment Act will be a solution of the U.S. Department of the U.S. Department and the U.S. Depart	retail sales from renewables by 2020 with interim 1 and 15% by 2015. In August 2007, the Public (PRC) issued an order and rules requiring that the 'fully diversified renewable energy portfolio" which is 20% solar power, 20% wind power, and 10% from termal energy. Additionally, 1.5% must come from 2011, rising to 3% in 2015. ace include: energy tax credits, renewable energy and sustainable building tax credits. The Solar Market Credit, passed in 2006, provides a 30% income tax 200. The Solar Rights Act, passed in 2007, prohibits and municipalities from passing codes to prohibit tels. SB 994 offers a 6% tax credit to companies and sustainable energy systems. Compliance is a use of renewable energy certificates (RECs). In and the New Mexico Office of Recovery and funced that a portion of the \$37 million of funding from the support achieving renewable targets. Soled between 2003 and 2007, and stood at 8.1% of the support achieving renewable targets.

Target 232

Country/Region	United States - New York	
Policy Type	Executive Order	
Policy Name/Description	State Energy Plan: 5% reduction in greenhouse gas emissions from 1990	
	levels by 2010; 10% reduction by 2020; and 80% reduction by 2050.	
Date Announced	June, 2002 and August, 2009	
Target Date	2012 and 2020	
CO ₂ Abatement Potential	50 MT of abatement in 2020	
Policy Category	Emissions target: Cap-and-trade	
Supporting Policies: Mandates	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (Target	
and Incentives	184, Target 233); New York Renewable Portfolio Standard (Target 234, Target	
	235); state appliance efficiency standards; state building code; net metering;	
	federal Energy Star homes program.	
Commentary	In June, 2002, the State Energy Planning Board released the 2002 State	
	Energy Plan and Final Environmental Impact Statement, which established	
	goals to reduce statewide emissions to 5% below 1990 levels by 2010 and	
	10% below 1990 levels by 2020. The plan was seen as a blueprint to inform	
	energy decision making.	
	In June, 2008, New York state began a new energy planning process and on	
	August, 10 th , 2009, released the Draft 2009 New York State Energy Plan. It	
	details greenhouse gas inventories and forecasts for the state and sets out	
	assessments on renewable energy, energy efficiency and energy demand. It	
	also sets out the long-term target of 80% reduction in greenhouse gas	
	emissions by 2050.	
	A variety of robust supporting policies are in place, including state renewable	
	portfolio standards, vehicle efficiency standards, other efficiency standards,	
	and the implications of membership in the Regional Greenhouse Gas Initiative	
	(RGGI) cap-and-trade scheme. Under RGGI, regulated power plants will be	
	able to use emissions allowances issued by any of the 10 states in the	
	scheme to demonstrate compliance with the program. There is a detailed plan	
	in place that allows participants to purchase offsets to meet 50% of their	
	emission reductions.	
	RGGI permits are selling well at auction with 12.5 million sold in the first	
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI	
	sold 32 million permits and the March, 2009, auction – the first since RGGI	
	states' cap-and-trade rules took effect – saw all 32 million allowances sold at	
	the clearing price. The proceeds from these sales are fed back to power	
	utilities to invest in clean technologies and efficiency measures. The fourth	
	auction of allowances in June, 2009, raised \$104.2 million for Investment in	
	the Green Economy in participating states.	

Target 233

Country/Region	United States - New York
Policy Type	Legislation
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas emissions from the power sector by 2018
Date Announced	December, 20 th , 2005
Target Date	2018
CO ₂ Abatement Potential	Modeled as part of Target 184
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (RGGI);
and Incentives	state Renewable Portfolio Standard (Target 234 and Target 235); state
	appliance efficiency standards; state building code; net metering; federal
	Energy Star homes program.
Commentary	Then-New York Governor George Pataki signed the RGGI initiative on December, 20 th , 2005.
	Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that could inflate the cap and could make the program less effective at reducing the region's emissions through local actions.
	RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.

Target 234

Country/Region	United States - New Yo	rk
Policy Type	Legislation	
Policy Name/Description	25% of electricity generation from renewable sources by 2013	
Date Announced	September, 2004	
Target Date	2013	
CO ₂ Abatement Potential	20 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179, Target 180,	Target 184, Target 232 and Target 233
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; Regional Greenhouse Gas
Mandates and Incentives	Initiative auction proceeds	s; state tax credits; state rebate program; state
	Renewable Portfolio Stan	dard Fund; proposed "on-bill financing".
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	New York's Renewable Portfolio Standard (RPS), which became law in September, 2004, identifies two tiers of eligible resources: Main Tier resources, and Customer-Sited Tier resources. Main Tier resources include methane digesters and other forms of biomass, liquid biofuels, fuel cells, hydroelectric power, solar PV, ocean, tidal, and wind power. Customer sited resources include fuel cells, solar PV, wind, and methane digesters. These resources are generally limited in capacity to the size of the load at the customer's meter. The New York State Energy Research and Development Authority (NYSERDA) centrally procure long-term Renewable Energy Certificate (REC) contracts on behalf of utilities to meet the RPS. NYSERDA also manages a RPS fund gathered through a surcharge on each on each kilowatt-hour sold by the state's investor-owned utilities. NYSERDA is responsible for implementation of most (24% of the 25%) of the goal. The rest is expected to come from individuals and businesses that choose to pay a premium on their electricity bill to support renewable energy. As of June, 2008, NYSERDA completed 4 competitive Main Tier solicitations	
	100 MW of solar PV pow target, with construction	In May, 2009 the state announced that it would build wer at public and private facilities to help meet the a starting in 2010. However, a January, 2009 ted that currently approved funding levels may be 213 target.

Target 235

Country/Region	United States – New York	
Policy Type	Proposed legislation	
Policy Name/Description	45% of electricity generat	ion from renewable sources and efficiency by 2015
Date Announced	September, 2004	
Target Date	2015	
CO ₂ Abatement Potential	10 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179, Target 180, T	arget 184, Target 232 and Target 233
Supporting Policies:	Federal Production and Ir	vestment Tax Credits; Regional Greenhouse Gas
Mandates and Incentives	Initiative auction proceeds	s; state tax credits; state rebate program; state
	Renewable Portfolio Stan	dard Fund; proposed "on-bill financing".
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	This proposed target is known as the 45-by-15 program, and is seen as one of	
	the nation's most important energy efficiency and renewable energy initiatives.	
	The state has developed a detailed set of initiatives to meet the target, and	
	has modeled these plans.	
	Governor David Paterson has proposed innovative financing mechanisms to	
	meet the target. This includes "on-bill financing," which is now being discussed	
	in proceedings before the State Public Service Commission. The intention of	
	the proposals is to help New Yorkers retrofit their homes and businesses and	
	invest in energy efficiency and renewable energy.	
	As of 2008, New York had the highest amount of installed renewable	
	generation capacity in the Northeast.	

Target 236

Country/Region	United States - North Carolina	
Policy Type	Legislation	
Policy Name/Description	SB 3: 10% of retail sales for electric cooperatives and municipal utilities from	
	renewable sources by 2018; 12.5% of retail sales for investor-owned utilities	
	from renewable sources l	by 2021.
Date Announced	August, 20 th , 2007	
Target Date	2021	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179 and Target 18	30
Supporting Policies:	Federal Production and Ir	nvestment tax credits; North Carolina rebate program;
Mandates and Incentives	North Carolina grant prog	ram.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	On August 20 th , 2007, SB 3 was signed into law, establishing North Carolina's Renewable Energy and Efficiency Portfolio Standard. Municipal utilities and electric cooperatives must meet a target of 10% renewables by 2018. Investorowned utilities must meet a target of 12.5% renewables by 2021. 25% of both targets can be met through efficiency, rising to 40% after 2021. There are a number of interim targets leading up to the final targets in 2018 and 2021. Compliance can be met though generating electric power at a renewable facility, reducing energy consumption through implementation of an energy efficiency measure, purchasing electric power from a new renewable facility, or purchasing Renewable Energy Certificates (RECs) derived from in-state or out-of-state new renewable facilities. RECs cannot be used to meet more than 25% of the requirement. There are no specified penalties for non-compliance, which may make enforcement of the target difficult. North Carolina has a number of tax credits and production incentives in place. There is also a state grant and rebate program to encourage development of renewable electricity.	
		Carolina's electricity came from renewable sources Information Administration. The majority of this was od/waste.

Target 237

10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also it place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Country/Region	United States - North Dakota	
Date Announced August, 20 th , 2007 Target Date CO ₂ Abatement Potential Policy Category Related Emissions Target(s) Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installatio cost of alternate energy systems, property tax exemptions for wind and sola systems, and a sales tax exemption for wind facilities. Net metering is also in place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Policy Type	Voluntary	
Date Announced	Policy Name/Description	HB 1506: 10% of electricity generation from renewable and recycled sources	
Target Date CO2 Abatement Potential Policy Category Related Emissions Target(s) Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installatio cost of alternate energy systems, property tax exemptions for wind and sola systems, and a sales tax exemption for wind facilities. Net metering is also is place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The		by 2015	
CO2 Abatement Potential Policy Category Renewable Portfolio Standard: Electricity Related Emissions Target(s) Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installatio cost of alternate energy systems, property tax exemptions for wind and sola systems, and a sales tax exemption for enewable target. The	Date Announced	August, 20 th , 2007	
Renewable Portfolio Standard: Electricity Related Emissions Target(s) Target 179 and Target 180	Target Date	2015	
Related Emissions Target(s) Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan i unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installatio cost of alternate energy systems, property tax exemptions for wind and sola systems, and a sales tax exemption for wind facilities. Net metering is also i place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	CO ₂ Abatement Potential	1 MT of abatement in 202	20
Supporting Policies: Mandates and Incentives Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installatio cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also in place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Policy Category	Renewable Portfolio Stan	dard: Electricity
Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also in place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Related Emissions Target(s)	Target 179 and Target 18	30
Investor Risk Assessment Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installatio cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also in place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state grant program state tax
Rationale (See exhibit 5) Lower Risk = 1; Moderate Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also is place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Mandates and Incentives	credits; net metering.	
Enforcement: 3 Implementation Capacity: 2	Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Risk = 2; Higher Risk = 3 Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energing and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also is place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Overall Risk Assessment Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also it place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Supporting Commentary In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also it place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not cour as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also it place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The	Overall Risk Assessment	2	
deterrent for non-compliance does not exist. In 2007, 6.2% of state generation came from renewables, according to the standard is voluntary, determined by the standard is voluntary.	Supporting Commentary	In March 2007, North Dakota enacted legislation (HB 1506) that set a goal that 10% of all retail electricity sold in the state be obtained from renewable energy and recycled energy by 2015. While ground rules have been established for what does and does not count as part of the target, the level of analysis conducted to formulate the plan is unclear. There are a number of incentives for renewable energy in place, including a tax credit against the state income tax for 15% of the purchase and installation cost of alternate energy systems, property tax exemptions for wind and solar systems, and a sales tax exemption for wind facilities. Net metering is also in place as a key enabler of renewable deployment. The North Dakota State Energy Program oversees the renewable target. The first compliance year for the target is 2015, and, as the standard is voluntary, a	

Target 238

Country/Region	United States - Ohio	
Policy Type	Legislation	
Policy Name/Description	SB 221: 25% of electricity from alternative energy resources by 2025, at least	
	half of which must be generated from renewable energy resources	
Date Announced	May, 1 st , 2008	
Target Date	2025	
CO ₂ Abatement Potential	1 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179 and Target 18	0
Supporting Policies:	Federal Production and In	vestment Tax Credits; state grant program; state tax
Mandates and Incentives	exemptions; state Advance	ed Energy Fund; net metering.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	On May 1 st , 2008, SB 2	21 was signed into law, establishing an alternative
	energy portfolio standard	for Ohio. The law mandates that by 2025, 25% of
	electricity should come from	om alternatives and that 12.5% of this should be from
	renewables such as win	d, solar, hydropower, geothermal or biomass. The
	other 12.5% can be met	from alternative energy resources such as nuclear,
	fuel cells, energy efficiency and clean coal technology.	
	The Public Utility Commi	ission of Ohio (PUCO) is responsible for reviewing
	compliance with the renewable and solar targets and imposing penalties for	
	non-compliance. Electric	utilities and service companies may use Renewable
	Energy Credits (RECs) to	satisfy all or part of the targets. The bill also creates
	a REC tracking system, v	which allows utilities to buy, sell, and trade credits to
	comply with the renewabl	e energy and solar energy requirements. To facilitate
	enforcement, the PUCO	is required to adopt rules establishing greenhouse-
	gas reporting requirement	ts. This includes participation in the Climate Registry,
	which aims to develop	a common system for tracking greenhouse gas
	emissions between jurisdi	ctions.
	An Alternative Compliand	ce Payment (ACP) is in place, and is initially set at
	\$45/MWh but will be adjust	sted according to the Consumer Price Index in future.
		pliance payment (SACP) is set at \$450/MWh in 2010
	· ·	uced by \$50 every two years thereafter to a minimum
		the PUCO is also tasked with annually reviewing
	compliance with the targe	ts and imposing penalties if they are not met.
	· ·	ummer renewable capacity was only 0.6%, which
	represents a decline from	2003 figures.

Target 239

Country/Region	United States – Ohio	
Policy Type	Legislation	
Policy Name/Description	SB 221: 22% savings in electricity consumption by 2025	
Date Announced	May, 1 st , 2008	
Target Date	2025	
CO ₂ Abatement Potential	15 MT of abatement in 20	20
Policy Category	Sector/Industry Specific R	Regulation
Related Emissions Target(s)	Target 179 and Target 18	0
Supporting Policies:		e tax credits; state building energy code; state energy
Mandates and Incentives	standards for public buildi	ngs.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	implementation plan has and the Public Utilities C	es to meet an energy efficiency standard. An been developed, which delegates authority to utilities commission of Ohio. Utilities must propose effective for review, and work collaboratively to refine their
	utility or by an independence consumers, including research PUCO is charged with	developed to meet this target – whether run by the ent program administrator – must serve all electricity idential, commercial and industrial power users. The monitoring and evaluating the results of efficiency ities to ensure that they deliver meaningful results at
	their customers, but are energy efficiency investment the PUCO is allowed to use	ecover the cost of energy efficiency programs from not allowed to collect more than is actually spent on ents. If utilities implement more ambitious programs, se its discretion to allow them to recover more costs.
	tapping into state and loc	for an Energy-Efficient Economy believes that by all energy efficiency and clean energy grants offered ecovery and Reinvestment Act, Ohio should have ve its target.
	Ohio helps low-income cu	in place to spur uptake of energy efficient measures. ustomers reduce their energy bills through free home erization. There are also building efficiency standards uilding Energy Code.

Target 240

Country/Region	United States - Oregon
Policy Type	Legislation
Policy Name/Description	Oregon Strategy for Greenhouse Gas Reductions: Stabilize greenhouse gas
	emissions by 2010; 10% reduction from 1990 levels by 2020; 75% reduction
	from 1990 levels by 2050.
Date Announced	December, 20 th , 2005
Target Date	2018
CO ₂ Abatement Potential	10 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates and Incentives	Cap-and-trade scheme under Western Climate Initiative (WCI); state Renewable Portfolio Standard (Target 241); state appliance efficiency
	standards; state building code; net metering; federal Energy Star homes program.
Commentary	In March, 2009 the Oregon Global Warming Commission announced that the state is on track to meet its 2010 emissions target. Increases in wind power, solar energy, and green architecture have played a large part in emissions reductions. A number of robust policies are in place to support achieving this target,
	including cap-and-trade under the Western Climate Initiative (WCI). There are also appliance efficiency standards and a state building code encouraging energy efficiency measures.
	The WCI cap-and-trade program will be implemented in two phases. Beginning on January 1 st , 2012, emissions from electricity generation and large industrial and commercial sources will be covered. In the second phase, beginning in January, 2015, the program will expand to cover emissions from transportation and residential, commercial, and industrial fuel use not otherwise covered.
	A reporting committee will oversee jurisdictional rules, reporting tools and a regional emissions database. Mandatory reporting of greenhouse gas emissions will begin prior to the cap-and-trade program and each partner will update the other WCI partners on their climate plans every two years to ensure adequate progress is taking place.

Target 241

Country/Region	United States - Oregon		
Policy Type	Legislation		
Policy Name/Description	Oregon Renewable Energy Act (SB 838): 10% of total electricity generation		
	from new renewables by 2015; 25% of total electricity generation from new		
	renewables by 2025.	renewables by 2025.	
Date Announced	June, 2007		
Target Date	2011-2025		
CO ₂ Abatement Potential	5 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180, T	arget 185 and Target 240	
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state tax credits; state grant	
Mandates and Incentives	program; state rebate pro	gram; state public benefits fund.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	As part of the Oregon Renewable Energy Act of 2007 (SB 838), the state of Oregon established a Renewable Portfolio Standard (RPS). Different RPS targets apply depending on a utility's size. Larger utilities must generate 5% of sales from eligible renewables by 2011; 15% by 2015; 20% by 2020; and 25% by 2025 and subsequent years. Smaller utilities must generate 5% of sales from renewables by 2025. Oregon's Department of Energy has prepared an action plan to achieve the target, with long-term, medium-term and short-term goals, which are specific, actionable and underpin the plan. Electric utilities are also being asked to draw up individual implementation plans. Oregon's RPS is backed by renewable energy certificates (RECs), which are robustly designed and include some penalties. While utilities are responsible for funding compliance, public financing for climate change programs in Oregon may be inadequate. \$180,000 has been appropriated for the Oregon Climate Change Research Institute, but other budgeting remains unclear. Penalties for non-compliance are set on a utility-by-utility basis. The Alternative Compliance Payment for Portland General Electric, for example, has been set at \$50/MWh in 2011. Oregon has a good track record at implementing other targets, such as its		

Target 242

Country/Region	United States – Pennsyl	vania
Policy Type	Legislation	
Policy Name/Description	18% of electricity from alternative energy sources during compliance year	
	2020-2021	
Date Announced	2004	
Target Date	2021	
CO ₂ Abatement Potential	15 MT of abatement in 20	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179 and Target 18	0
Supporting Policies:	Federal Production and In	vestment Tax Credits; state rebate program; state
Mandates and Incentives	grant program; state publi	c benefits fund; net metering.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	Pennsylvania's Alternative Energy Portfolio Standard (AEPS) requires each electric distribution company and electric generation supplier to retail electric customers in Pennsylvania to supply 18% of its electricity using alternative-energy sources by 2021. The AEPS is detailed and technology-specific, specifying two tiers of energy sources under the law. The standard calls for utilities to generate 8% of their electricity by using Tier I energy sources, which include solar PV, solar thermal, wind, low-impact hydro, geothermal, biomass, biologically-driven methane gas, coal-mine methane, and fuel cells. The standard calls for utilities to generate 10% of their electricity by using Tier II sources, which include waste coal, distributed generation systems, demand-side management, large-scale hydro, municipal solid waste, wood pulping, and IGCC technology. There is also a minimum solar requirement, which rises to 0.5% by 2021. Pennsylvania's AEPS is backed by renewable energy certificates (RECs). There is a penalty for non-compliance of \$45/MWh for all renewables. A separate Alternative Compliance Payment for solar has been established, at 200% of the average market value of solar credits sold during the reporting period.	
	account for over 50% of the 1998. According to the Energy	the success in developing its wind resources, which the 312MW of new generation capacity installed since the 312MW of new generation capacity installed since the 312MW of new generation, 2.1% of electricity is came from renewables in 2007, resulting in failure typear.

Target 243

Country/Region	United States – Pennsy	lvania
Policy Type	Legislation	
Policy Name/Description	Energy Conservation Bill:	Electricity use should be reduced by 1% by 2011
	and 3% by 2013; every he	ome and business must be equipped with smart
	meters by 2023	
Date Announced	November, 2008	
Target Date	2011; 2013 and 2023	
CO ₂ Abatement Potential	No impact on BAU in 201.	2 and 2020
Policy Category	Sector/Industry Specific R	Regulation
Related Emissions Target(s)	Target 179 and Target 18	0
Supporting Policies:	Federal Production and Ir	vestment Tax Credits; state rebate program; state
Mandates and Incentives	grant program; state publi	ic benefits fund; state building energy codes; state
	energy standards for publ	ic buildings.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	2	
Supporting Commentary	Pennsylvania passed the Energy Conservation Bill into law in November,	
	2008. The Public Utilities Commission (PUC) has been charged with	
	establishing a working group for the program, and each electric distribution	
	company was required to file an energy efficiency plan with the PUC by July	
	1 st , 2009. Each electric distribution must file a new plan every five years. A	
	detailed annual report is also required to monitor energy savings.	
	Strict penalties are in place for those utilities that do not file plans. There are	
	also penalties of up to \$20 million in place for failing to meet the 1% reduction	
	by 2011.	
	The Pennsylvania Public Utilities Commission has established 4 sustainable	
	Energy Funds to promote renewables and energy conservation.	

Target 244

Country/Region	United States - Rhode Island
Policy Type	Unclear Status
Policy Name/Description	Rhode Island Greenhouse Gas Action Plan: Reduce greenhouse gas
	emissions to 1990 levels by 2010; 10% reduction from 1990 levels by 2020.
Date Announced	2002
Target Date	2010 and 2020
CO ₂ Abatement Potential	5 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (Target
and Incentives	245); state Renewable Portfolio Standard (Target 246); state appliance
	efficiency standards; state building code; net metering; federal Energy Star
	homes program.
Commentary	Rhode Island developed a Greenhouse Gas Action Plan in 2002, and has
	been implementing the plan since then. Rhode Island has also signed the New
	England Governors/Eastern Canadian Premiers Climate Action Plan in 2001.
	A stakeholder Action Plan for greenhouse gas emissions has also been
	developed.
	The Rhode Island Climate Coalition is made up of 79 organizations to reduce
	climate change and help meet targets.
	Rhode Island is on track to meet the 2010 and 2020 targets.
	The state is also part of the RGGI initiative. Under RGGI, regulated power
	plants will be able to use emissions allowances issued by any of the 10 states
	in the scheme to demonstrate compliance with the program. There is a
	detailed plan in place that allows participants to purchase offsets to meet 50%
	of their emission reductions. There are also some flexibility mechanisms and
	design elements in the RGGI model that could inflate the cap and could make
	the program less effective at reducing the region's emissions through local
	actions.
	RGGI permits are selling well at auction with 12.5 million sold in the first
	auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI
	sold 32 million permits and the March, 2009, auction - the first since RGGI
	states' cap-and-trade rules took effect - saw all 32 million allowances sold at
	the clearing price. The proceeds from these sales are fed back to power
	utilities to invest in clean technologies and efficiency measures. The fourth
	auction of allowances in June, 2009, raised \$104.2 million for Investment in
	the Green Economy in participating states.

Target 245

Country/Region	United States - Rhode Island
Policy Type	Legislation
Policy Name/Description	Regional Greenhouse Gas Initiative (RGGI): 10% reduction in greenhouse gas emissions from the power sector by 2018
Date Announced	February, 2007
Target Date	2018
CO ₂ Abatement Potential	Modeled as part of Target 184
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates and Incentives	Cap-and-trade scheme under Regional Greenhouse Gas Initiative (RGGI); state Renewable Portfolio Standard (Target 246); state appliance efficiency standards; state building code; net metering; federal Energy Star homes program.
Commentary	Rhode Island's Governor signed the RGGI initiative in February, 2007. The Rhode Island Greenhouse Gas Action plan was developed in 2002 and details the state emission reduction targets. Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that could inflate the cap and could make the program less effective at reducing the region's emissions through local actions.
	RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.

Target 246

Country/Region	United States – Rhode I	sland
Policy Type	Legislation	
Policy Name/Description	16% of electricity generation from renewable sources by 2020	
Date Announced	June, 2004	
Target Date	2020	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179, Target 180, T	arget 184, Target 244 and Target 245
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; proposed feed-in tariff; state
Mandates and Incentives	grant program; state reba	te program.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary		
	In 2007, renewables cont to the Energy Information	ributed 2.3% of state electricity generation, according Administration.

Target 247

Country/Region	United States - South D	akota
Policy Type	Voluntary	
Policy Name/Description	HB 1272: Combined conservation and renewable electricity standard of 10%	
	by 2015	
Date Announced	February, 2008	
Target Date	2015	
CO ₂ Abatement Potential	1 MT of abatement in 202	0
Policy Category	Renewable Portfolio Stan	dard: Electricity and Sector Specific Regulation
Related Emissions Target(s)	Target 179 and Target 18	0
Supporting Policies:	Federal Production and Ir	vestment Tax Credits.
Mandates and Incentives		
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 3	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 3
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	On February 21, 2008,	HB 1272 was signed, establishing a voluntary
	Renewable Portfolio Stan	dard (RPS).
	There is no publicly available integrated plan. Eligible renewables include	
	electricity produced from wind, solar, hydroelectric, biomass and geothermal	
	resources, and electricity generated from certain types of waste heat. In	
	addition to meeting the technology eligibility criteria, electricity must also meet	
	the Public Utility Commission's rules for tracking, recording and verifying	
	Renewable Energy Credits.	
	There are no clear state-level incentives in place. As a voluntary target, there are no penalties or sanctions for retail providers that fail to meet the goal.	
	are no penames or samon	one for rotali providere triat fall to fileet trie goal.
	The first compliance year	was 2008, and the state missed its interim target in
	that year. In 2007, 2.4% of electricity was generated by wind in the state	
	according to the Energy Information Administration.	

Target 248

Country/Region	United States – Texas	
Policy Type	Legislation	
Policy Name/Description	Install 2,000 MW of renewable electricity capacity by 2009; 5,880 MW by	
	2015; and 10,000 MW by 2025	
Date Announced	1999 (2009 target) and 20	005 (2015 and 2025 targets)
Target Date	2009; 2015 and 2025	
CO ₂ Abatement Potential	10 MT of abatement in 20	020
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emissions Target(s)	Target 179 and Target 18	0
Supporting Policies:	Federal Production and Ir	nvestment Tax Credits; state renewable credit
Mandates and Incentives	trading; state tax exemption	ons; state rebate program; state grant program.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary	Monitoring: 1 Historical Achievement: 1	

Target 249

Country/Region	United States - Utah
Policy Type	Government aspiration
Policy Name/Description	Western Climate Initiative (WCI): Reduce greenhouse gas emissions to 2005
	levels by 2020
Date Announced	May, 21 st , 2007
Target Date	2020
CO ₂ Abatement Potential	Modeled as part of Target 185
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Cap-and-trade scheme under Western Climate Initiative (WCI); state
and Incentives	Renewable Portfolio Standard (Target 250); state building energy code; net
	metering; federal Energy Star homes program.
Commentary	Utah Governor John Huntsman signed a Memorandum of Understanding to
	join the Western Climate Initiative in May, 2007. In the Initiative's
	Memorandum of Understanding, WCI members agreed to jointly set a regional
	emissions target and establish a market-based system to aid in meeting the
	target. Utah has pledged to reduce greenhouse gas emissions to 2005 levels
	by 2020.
	The Western Climate Initiative builds upon the West Coast Governor's Global
	Warming Initiative of 2003, which California signed with Oregon and
	Washington. The program will be implemented in two phases. Beginning on
	January 1 st , 2012, emissions from electricity generation and large industrial
	and commercial sources will be covered. In the second phase, beginning in
	January, 2015, the program will expand to cover emissions from transportation
	and residential, commercial, and industrial fuel use not otherwise covered.

Target 250

Country/Region	United States – Utah	
Policy Type	Legislation	
Policy Name/Description	Energy Resource and Carbon Emission Reduction Initiative: 20% of adjusted	
	retail power from renewables by 2025	
Date Announced	March, 2008	
Target Date	2025	
CO ₂ Abatement Potential	5 MT of abatement in 20	20
Policy Category	Renewable Portfolio Sta	ndard: Electricity
Related Emissions Target(s)	Target 179, Target 180,	Target 185 and Target 249
Supporting Policies:	Federal Production and	Investment Tax Credits; state rebate program; state
Mandates and Incentives	tax exemptions.	
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 3
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 3	Historical Achievement: 3
Overall Risk Assessment	3	
Supporting Commentary	Utah enacted its Energy Resource and Carbon Emission Reduction Initiative in March, 2008. The law requires that utilities only need to pursue renewable energy to the extent that it is cost-effective to do so. Utah's goal has no interim targets, reducing incentives for action in the short-term. A detailed Climate Action Plan could not be found in the public domain. Utilities may meet their targets by producing electricity with an eligible form of renewable energy or by purchasing Renewable Energy Certificates. The Utah Public Service Commission is charged with conducting policy reviews and plans. Electricity may be produced within the state, or within the geographic boundary of the Western Electricity Coordinating Council. Notably, each kWh of electricity produced using solar energy counts as 2.4 kWh for the purposes of meeting the goal. There are no robust penalties for non-compliance in place.	
	There are no robust penalties for non-compliance in place. In 2007 Utah generated 1.6% of its electricity from renewables according to the Energy Information Administration and as a proportion of total capacity; the renewable capacity has declined since 2003.	

Target 251

United States - Vermont	
Legislation	
Act 168: 25% reduction in greenhouse gas emissions from 1990 levels by	
2012; 50% by 2028 and, if possible with reasonable effort, 75% by 2050.	
July, 1 st , 2006	
2010 and 2020	
5 MT of abatement in 2020	
Emissions target: Cap-and-trade	
Cap-and-trade under the Regional Greenhouse Gas Initiative (Target 252);	
state Renewable Portfolio Standards (Target 253 and Target 254); state	
building energy code; state appliance efficiency standards; state Clean Energy	
Development Fund (CEDF); net metering; US Energy Star Homes Program.	
On July, 1 st , 2006, Senate Bill 259 (Act 168) was signed, establishing a goal to	
reduce greenhouse gas emissions 25% from 1990 levels by 2012, 50% by	
2028 and 75% by 2050. Vermont is also signatory to the New England	
Governors and the Eastern Canadian Premiers Action Plan.	
There is a state Climate Action Plan in place, approved in October, 2007, that	
sets out a strategy to address climate change in Vermont. Senate Bill 259	
directs the Secretary of Natural Resources to coordinate efforts with the	
Governor's Commission on Climate Change. On June, 11 th , 2008, Governor	
Jim Douglas signed Senate Bill 350, An Act Relative to Energy Independence	
and Economic Prosperity, which established the Vermont Climate Change	
Oversight Committee. The Committee is charged with advising on how to	
proceed with carbon emission reduction strategies.	
Vermont is a member of the Regional Greenhouse Gas Initiative (RGGI) cap-	
and-trade scheme. Under RGGI, regulated power plants will be able to use	
emissions allowances issued by any of the 10 states in the scheme to	
demonstrate compliance with the program. There is a detailed plan in place	
that allows participants to purchase offsets to meet 50% of their emission	
reductions. There are also some flexibility mechanisms and design elements	
in the RGGI model that could inflate the cap and could make the program less	
effective at reducing the region's emissions through local actions.	
arroading the region of enhancing through local actions.	
RGGI permits are selling well at auction with 12.5 million sold in the first	
auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI	
sold 32 million permits and the March, 2009, auction – the first since RGGI	
states' cap-and-trade rules took effect – saw all 32 million allowances sold at	
the clearing price. The proceeds from these sales are fed back to power	
utilities to invest in clean technologies and efficiency measures. The fourth	
auction of allowances in June, 2009, raised \$104.2 million for Investment in	
the Green Economy in participating states.	

Target 252

Country/Region	United States - Vermont
Policy Type	Legislation
Policy Name/Description	Regional Greenhouse Gas Initiative: 10% reduction in greenhouse gas emissions from the power sector by 2018
Date Announced	December, 20 th , 2005
Target Date	2018
CO ₂ Abatement Potential	Modeled as part of Target 184
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates and Incentives	Cap-and-trade under the Regional Greenhouse Gas Initiative (RGGI); Vermont Renewable Portfolio Standard (Target 253 and Target 254); Vermont Building Energy Code; Vermont Appliance efficiency standards; Vermont Clean Energy development fund (CEDF); Net Metering and US Energy Star Homes Program.
Commentary	On December 20 th , 2005 Vermont's Governor Jim Douglas signed the RGGI initiative. Under RGGI, regulated power plants will be able to use emissions allowances issued by any of the 10 states in the scheme to demonstrate compliance with the program. There is a detailed plan in place that allows participants to purchase offsets to meet 50% of their emission reductions. There are also some flexibility mechanisms and design elements in the RGGI model that could inflate the cap and could make the program less effective at reducing the region's emissions through local actions. RGGI permits are selling well at auction with 12.5 million sold in the first auction in 2008, each representing one ton of CO ₂ . In December, 2008, RGGI sold 32 million permits and the March, 2009, auction – the first since RGGI states' cap-and-trade rules took effect – saw all 32 million allowances sold at the clearing price. The proceeds from these sales are fed back to power utilities to invest in clean technologies and efficiency measures. The fourth auction of allowances in June, 2009, raised \$104.2 million for Investment in the Green Economy in participating states.

Target 253

Country/Region	United States - Vermon	t	
Policy Type	Legislation		
Policy Name/Description	Vermont Energy Act of 2009: 20% of electricity generation from renewable		
	sources by 2017		
Date Announced	March, 2008		
Target Date	2017		
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 1 MT of abatement in 2020	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180,	Target 184, Target 251 and Target 252	
Supporting Policies:	Federal Production and	Investment tax credits; Regional Greenhouse Gas	
Mandates and Incentives	Initiative auction proceed	ls; Vermont Feed-in tariff; Vermont rebate program;	
	Vermont grant program.		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	included changes to the Development (SPEED) propolicy. There are few details about as a SPEED project, and energy using renewables after December 31st, 20 renewables can also qual speed to speed the speed of the	On May 27 th , 2009, the Vermont Energy Act of 2009 went into effect. The bill included changes to the state Sustainability Priced Energy Enterprise Development (SPEED) program that would implement a pilot feed-in tariff	
	`	gh proportion of renewables in its power generation % between 2003 and 2007.	

Target 254

Country/Region	United States – Vermon	ıt
Policy Type	Legislation	
Policy Name/Description	25% of energy consumed within the state must come from renewable sources originating in America's forests, farms, and ranches by 2025	
Date Announced	January, 2007	
Target Date	2025	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 179, Target 180,	Target 184, Target 251 and Target 252
Supporting Policies:	Federal Production and	Investment tax credits; Regional Greenhouse Gas
Mandates and Incentives	Initiative auction proceeds; Vermont Feed-in tariff; Vermont rebate program; Vermont grant program.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	In addition to its Renewable Portfolio Standard, Vermont's energy legislation established a separate target of securing 25% of the energy consumed in the state from renewable sources originating in forests and farms as part of the Vermont 25 by 25 Initiative. A detailed plan released by the Vermont Agency of Agriculture, Food and	
	Markets in January, 2008, showed how the state could meet 79% of this target from farm and forest resources. The 25 by 25 Initiative is led by a dedicated Steering Committee and supported by the Vermont Agency of Agriculture. The target is supported by state efficiency standards, a renewable feed-in tariff, and tax credits.	
	7.8% of Vermont's renew 2007.	able generation was derived from wood and waste in

Target 255

Country/Region	United States - Virginia
Policy Type	Executive Order
Policy Name/Description	Executive Order 07-59: 30% reduction in greenhouse gas emissions by 2025
	against no specified baseline. Includes a goal to meet 19% of state electricity
	needs through efficiency initiatives.
Date Announced	December, 20 th , 2005
Target Date	2018
CO ₂ Abatement Potential	Not modeled
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates	State Renewable Portfolio Standard (Target 256); state building energy code;
and Incentives	net metering; federal Energy Star homes program.
Commentary	Executive Order 59 set a greenhouse gas emission target of 30% below business-as-usual projections of emissions by 2025. In December, 2008, the Virginia Governor's Commission on Climate Change, which had been charged with developing a strategy to achieve Virginia's emissions reductions targets, released its final report. The 124-page Climate Change Action Plan lays out a detailed set of recommendations to meet the target. The recommendations are focused on energy efficiency and conservation, as well as renewable
	generation. Virginia is not obliged to carry out mandatory emission reporting, but the Climate Action Plan calls for the state to join the Climate Registry.

Target 256

Country/Region	United States – Virginia		
Policy Type	Voluntary		
Policy Name/Description	15% of base year (2007) electricity sales from renewable sources by 2025; 12% by 2022		
Date Announced	2007		
Target Date	2022 and 2025		
CO ₂ Abatement Potential	1 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179 , Target 180 a	and Target 255	
Supporting Policies:	Federal Production and	Investment Tax Credits; state tax exemptions; state	
Mandates and Incentives	building energy code; stat	te rebate program.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 2	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	2		
Supporting Commentary	December, 2008, Virginia Plan detailing actions for energy resources include and biomass energy. Hydrof wood derived from treand pulp manufacturers is power receive a double goals. Electricity must interconnection region of There are a number of surutility rebate program, manufacturing incentives. Each investor-owned ut annually before November of the program of	Virginia enacted a voluntary renewable energy portfolio goal in 2007. In December, 2008, Virginia expanded this with the release of its Climate Action Plan detailing actions for growth of renewable generation in the state. Eligible energy resources include solar, wind, geothermal, hydropower, wave, tidal, and biomass energy. Hydropower excludes pumped storage, and the amount of wood derived from trees that would be otherwise used by Virginia lumber and pulp manufacturers is capped at 1.5 million tons annually. Wind and solar power receive a double credit toward Renewable Portfolio Standard (RPS) goals. Electricity must be generated or purchased in Virginia or in the interconnection region of the regional transmission entity. There are a number of supporting policies in place, including tax incentives, a utility rebate program, and property tax exemptions for solar, solar manufacturing incentives. Each investor-owned utility must report to the Public Utility Commission annually before November 1 st on its efforts to meet the Renewable Portfolio Standard (RPS). However, no robust penalties are in place for non-	

Target 257

Country/Region	United States - Washington
Policy Type	Legislation
Policy Name/Description	Senate Bill 6001 and House Bill 2815: 1990 greenhouse gas emissions levels
	by 2020; 25% reduction by 2035; and 50% reduction by 2050.
Date Announced	February, 2008
Target Date	2020, 2035 and 2050
CO ₂ Abatement Potential	15 MT of abatement in 2020
Policy Category	Emissions target: Cap-and-trade
Supporting Policies: Mandates	Cap-and-trade under the Western Climate Initiative (WCI); state Renewable
and Incentives	Portfolio Standard (Target 258); state appliance efficiency standards; state
	building energy code; net metering; federal Energy Star homes program.
Commentary	In February, 2008, House Bill 2815 passed, requiring Washington to reduce
	emissions to 1990 levels by 2020. The bill further stipulates a 25% reduction
	from 1990 levels by 2035 and a 50% reduction by 2050. Senate Bill 6001
	complements House Bill 2815, specifying a series of concrete measures to
	address emissions in the state including setting requirements on electric
	power utilities to comply with minimum emissions standards.
	Washington is a signatory to the Western Climate Initiative enabling the state
	to participate in trading CO ₂ allowances. In the Initiative's Memorandum of
	Understanding, WCI members agreed to jointly set a regional emissions target
	and establish a market-based system to aid in meeting the target.
	The Western Climate Initiative builds upon the West Coast Governor's Global
	Warming Initiative of 2003, which California signed with Oregon and
	Washington. The program will be implemented in two phases. Beginning on
	January 1 st , 2012, emissions from electricity generation and large industrial
	and commercial sources will be covered. In the second phase, beginning in
	January, 2015, the program will expand to cover emissions from transportation
	and residential, commercial, and industrial fuel use not otherwise covered.

Target 258

Country/Region	United States – Washington		
Policy Type	Legislation		
Policy Name/Description	15% of electricity from rea	15% of electricity from renewable sources by 2020, along with deployment of	
	all cost-effective conserva	all cost-effective conservation by 2020	
Date Announced	November, 7 th , 2006		
Target Date	2020		
CO ₂ Abatement Potential	5 MT of abatement in 202	20	
Policy Category	Renewable Portfolio Stan	dard: Electricity	
Related Emissions Target(s)	Target 179, Target 180,	Target 185 and Target 257	
Supporting Policies:	Federal Production and	I Investment Tax Credits; state grant program;	
Mandates and Incentives	proposed state feed-in tar	riffs; state tax exemptions.	
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2	
Overall Risk Assessment	1		
Supporting Commentary	which started at 3% by based on work done by the Planning Council, with reference A number of supporting putax exemptions, and utilities are in place as of years. The Washington Utilities ensure the proper imples applies to investor-owned generating electricity from the target will pay at MWh of shortfall. According to the Energy generation in 2007 was	stablished a Renewable Portfolio Standard (RPS), 2012 and escalates to 15% by 2020. The RPS is the Pacific Northwest Electric Power and Conservation derence to its regional power plans. Policies are in place, such as a building energy code, lity grant programs. The state published a bill in a full system of feed-in tariffs for all renewables, but etc. and Transportation Commission may adopt rules to ementation and enforcement of the standard as it distributed utilities. Utilities can comply with the standard by ome eligible renewables, by acquiring equivalent, or a combination of both. A utility that fails to comply an administrative penalty to the state of \$59 for each information Administration, total renewable electricity 77.2%, but only 3.5% of this came from non-hydro ydropower projects in the state do not qualify for	

Target 259

Country/Region	United States - Wisconsin
Policy Type	Government aspiration
Policy Name/Description	Reduce greenhouse gas emissions to 2005 levels by 2014; 22% reduction
	from 2005 levels by 2022; 75% reduction from 2005 levels by 2050.
Date Announced	July, 2008
Target Date	2014, 2022 and 2050
CO ₂ Abatement Potential	25 MT of abatement in 2020
Policy Category	Emissions target: No carbon price
Supporting Policies: Mandates	State Renewable Portfolio Standard (Target 260); state building energy code;
and Incentives	net metering; public benefits fund; federal Energy Star homes program.
Commentary	Wisconsin has not adopted climate change legislation, but has been active on
	the issue and created a global warming task force. On July 24th, 2009, the
	Wisconsin Task Force on Global Warming released a report outlining
	strategies for the state to address climate change. It detailed 50 viable and
	actionable policy recommendations in the utility, transportation, agriculture,
	forestry, and industry sectors.
	Utilities may meet the standard, if they choose to do so, through renewable
	generation credits and energy savings. At least 5% of the standard must be
	generated, acquired, or saved using solar energy systems.
	Wisconsin is a signatory to the Midwestern Greenhouse Gas Accord and has
	other supporting initiatives to aid in meeting the targets including a state
	Renewable Portfolio Standard and a green building code. The Wisconsin
	public benefits fund, "Focus on Energy", supports statewide programs that
	promote energy efficiency and renewable energy.

Target 260

Country/Region	United States – Wisconsin	
Policy Type	Legislation	
Policy Name/Description	10% electricity generation from renewable sources by the end of 2015	
Date Announced	March, 2006	
Target Date	2015	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	ndard: Electricity
Related Emissions Target(s)	Target 179, Target 180 a	and Target 259
Supporting Policies:	Federal Production and	Investment Tax Credits; state feed-in tariff; state
Mandates and Incentives	rebate program; state gra	ant program; state building energy code.
Investor Risk Assessment	Incentives: 2	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 2
Overall Risk Assessment	2	
Supporting Commentary	Monitoring: 2 Historical Achievement: 2	

Oceania

Target 261

Country/Region	Australia	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 8% maximum increase in greenhouse gas emissions from	
	1990 levels for the period 2008-2012	
Date Announced	December, 3, 2007	
Target Date	2008-2012	
CO ₂ Abatement Potential	30 MT of hot air in 2012	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates and Incentives	National Renewable Portfolio Standard (Target 263); national lighting efficiency standard (Target 264); South Australia Renewable Portfolio Standard (Target 266); New South Wales Renewable Portfolio Standard (Target 265)	
Commentary	Australia's Prime Minister signed the Kyoto Protocol on December, 3 rd , 2007. A 2007 Australia Department of Climate Change audit of greenhouse gas emissions showed that Australia will meet its Kyoto commitment by 2010. The document details an exhaustive list of policies and programs across the national, state, territory and local government level aimed at reducing greenhouse gas emissions in Australia. Australia's National Greenhouse Accounts provide quarterly greenhouse gas emission estimates for the United Nations Framework Convention on Climate Change, and for tracking Australia's progress towards its Kyoto commitment. Australia's government is in the process of implementing a cap-and-trade scheme under a package of bills known as the Carbon Reduction Pollution Scheme. The scheme which was originally due to commence in July, 2010, has already been put back by a year to July, 2011, and debate still continues around the level of free allowances that would be given to large polluters and the set price of carbon for the first year.	

Target 262

Country/Region	Australia	
Policy Type	Proposed Legislation	
Policy Name/Description	Carbon Pollution Reduction Scheme (CPRS): Unconditional 5% reduction in	
	greenhouse gas emissions from 2000 levels by 2020; 25% reduction by 2020	
	in the context of a global agreement; 60% reduction by 2050	
Date Announced	December, 2008	
Target Date	2020 and 2050	
CO ₂ Abatement Potential	85 MT of abatement in 2020	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	National Renewable Portfolio Standard (Target 263); national lighting	
and Incentives	efficiency standard (Target 264); South Australia Renewable Portfolio	
	Standard (Target 266); New South Wales Renewable Portfolio Standard	
	(Target 265)	
Commentary	The Carbon Pollution Reduction Scheme (CPRS) legislative package	
	comprises 11 bills that were introduced in the House of Representatives in	
	May, 2009. The introduction of these bills followed the release of a Green	
	Paper on the CPRS in July, 2008 and a White Paper on the scheme in	
	December 2008. Prime Minister Kevin Rudd announced that emissions would	
	be reduced by 5-15% by 2020 via a cap-and trade system in December, 2008.	
	The bill was amended in May, 2009, delaying its start date by a year to at least	
	July, 2011, and increasing the reduction target for greenhouse gas emissions	
	for 2020 from 15% to 25% in the context of a global agreement.	
	In August, 2009, the Government decoupled Australia's Renewable Energy	
	Target legislation from the CPRS after the CPRS was defeated in the Senate.	
	The cap-and-trade scheme has faced criticism over the concessions that	
	would be offered to large polluters and the low fixed price for carbon for the	
	first year.	
	-	
	The Government has indicated that it intends to reintroduce the bills before the	
	end of 2009.	

Target 263

Country/Region	Australia	
Policy Type	Legislation	
Policy Name/Description	Renewable Energy Target Scheme: At least 20% of electricity supply from	
	renewables by 2020	
Date Announced	October, 2007	
Target Date	2020	
CO ₂ Abatement Potential	35 MT of abatement in 2	020
Policy Category	Renewable Portfolio Star	ndard: Electricity
Related Emissions Target(s)	Target 261 and Target 2	62
Supporting Policies:	South Australia Renewal	ole Portfolio Standard (Target 258); Feed-in tariffs
Mandates and Incentives	exist in some Australian	states; the bill that established the Renewable Energy
	Target Scheme also imp	lemented a solar credit mechanism, which is based
	on a renewable energy of	certificate multiplier for small-scale renewable energy.
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 2
Overall Risk Assessment	1	
Supporting Commentary		

Target 264

Country/Region	Australia	
Policy Type	Legislation	
Policy Name/Description	Phase-out of all incandescent bulbs by 2009 with full enforcement of new	
	lighting standards by 2009-2010	
Date Announced	February, 2007	
Target Date	2009-2010	
CO ₂ Abatement Potential	No impact on BAU in 201	2 and 5 MT of abatement in 2020
Policy Category	Sector/Industry Specific F	Regulation
Related Emissions Target(s)	Target 261 and Target 26	52
Supporting Policies:	N/A	
Mandates and Incentives		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 1
Lower Risk = 1; Moderate	Enforcement: 1	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1
Overall Risk Assessment	1	
Supporting Commentary		

Target 265

Australia – New South Wales		
Legislation		
15% of electricity from re	15% of electricity from renewable sources by 2020	
August, 2007		
2020		
5 MT of abatement in 202	20	
Renewable Portfolio Stan	dard: Electricity	
Target 261 and Target 26	2	
Proposed state feed-in ta	riffs for solar PV systems; state Energy Savings	
Fund; state GreenPower	program; state Energy Management Program.	
Incentives: 2	Sovereign Credit Risk: 1	
Public Financing: 1	Integrated Plan: 1	
Enforcement: 3	Implementation Capacity: 1	
Monitoring: 1	Historical Achievement: 1	
1		
New South Wales has put in place a target to generate 15% of electricity from renewables by 2020. The New South Wales government has announced its intention to introduce a solar feed-in tariff for small grid-connected solar PV systems, and has established a taskforce to determine the appropriate feed-in tariff. The government also has a GreenPower program, which allows customers to choose to have their electricity supplied from renewable sources for a small annual cost. Through the New South Wales Energy Management Program, Government departments are required to purchase a proportion of their electricity from renewable sources. There is an A\$200 million Energy Savings Fund in place to support demand management and local renewable projects.		
	Legislation 15% of electricity from ref August, 2007 2020 5 MT of abatement in 202 Renewable Portfolio Stan Target 261 and Target 26 Proposed state feed-in ta Fund; state GreenPower Incentives: 2 Public Financing: 1 Enforcement: 3 Monitoring: 1 1 New South Wales has purenewables by 2020. The New South Wales go solar feed-in tariff for setablished a taskforce government also has a choose to have their elecannual cost. Through the Government department electricity from renewables There is an A\$200 millio	

Target 266

Country/Region	Australia – South Australia	
Policy Type	Proposed legislation	
Policy Name/Description	33% of energy production from renewable sources by 2020	
Date Announced	June, 2009	
Target Date	2020	
CO ₂ Abatement Potential	15 MT of abatement in 20	020
Policy Category	Renewable Portfolio Stan	dard: Energy
Related Emissions Target(s)	Target 261 and Target 26	32
Supporting Policies:	Feed-in tariffs for solar P\	/ systems; financing in the form of an A\$20 million
Mandates and Incentives	Renewable Energy Fund.	
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	Premier Mike Rann announced in June, 2009, that his state budget will outline plans to increase the state's renewable energy target to 33% by 2020. The plan for achieving this target is not detailed and is still in the development stage. This target replaces the former target of 20% by 2014 which has already been surpassed, demonstrating a good track record with renewable targets in the state. South Australia has put in place a major solar power rebate to encourage the sector's development. Householders will be paid upward of double the basic electricity retail cost for feeding excess solar power onto the electricity grid. A new A\$20 million Renewable Energy Fund has also been announced to	

Target 267

Country/Region	New Zealand	
Policy Type	International treaty	
Policy Name/Description	Kyoto Protocol: 0% change in greenhouse gas emissions target from 1990	
	levels for the period 2008-2012	
Date Announced	2002	
Target Date	2008-2012	
CO ₂ Abatement Potential	15 MT of abatement in 2012	
Policy Category	Emissions target: No carbon price	
Supporting Policies: Mandates	National Renewable Portfolio Standard (Target 268); and national lighting	
and Incentives	efficiency standard (Target 269).	
Commentary	According to an April, 2009 government report, New Zealand is on target to	
	easily achieve its Kyoto target for cutting greenhouse gases as a result of	
	drought and a reassessment of its forests. The country expects to produce 9.6	
	MT less of CO ₂ and other greenhouse gases than allowed in the Protocol's	
	2008-2012 period.	
	However, previous estimates have not been as optimistic. A report from 2008	
	indicated that New Zealand would have a greenhouse gas deficit of around	
	21.7 MT. This discrepancy indicates some level of uncertainty around the	
	estimates.	

Target 268

Country/Region	New Zealand	
Policy Type	Voluntary	
Policy Name/Description	90% of electricity from renewable sources by 2025 (inclusive of large-hydro)	
Date Announced	March, 2008	
Target Date	2025	
CO ₂ Abatement Potential	1 MT of abatement in 202	20
Policy Category	Renewable Portfolio Stan	dard: Electricity
Related Emission Target(s)	Target 267	
Supporting Policies:	Financing in the form of a	NZ\$12 million Low Carbon Energy Technology Fund
Mandates and Incentives	and a NZ\$8 million Marin	e Development fund.
Investor Risk Assessment	Incentives: 3	Sovereign Credit Risk: 1
Rationale (See exhibit 5)	Public Financing: 1	Integrated Plan: 2
Lower Risk = 1; Moderate	Enforcement: 2	Implementation Capacity: 2
Risk = 2; Higher Risk = 3	Monitoring: 2	Historical Achievement: 1
Overall Risk Assessment	2	
Supporting Commentary	Zealand to generate 90% While this target appears 65-70% of its electricity f generation coming from While there has been a generation the new National Party renewable requirement. Although renewable electron there are supporting function. Carbon Energy Toevelopment Fund. Owi Policy Statement for Referency Resources and is New Zealand currently energy. There is no system certificate scheme or favores.	Government announced an ambitious target for New of its electricity from renewable resources by 2025. It is ambitious, New Zealand already generates about from renewable resources, with roughly 55% of total hydro, 10% from geothermal and 2.5% from wind. It is government change since the target was announced, a government has announced its support for the stricity generation is already mature in New Zealand, ding initiatives in place, including the NZ\$12 million fechnology Fund and the NZ\$8 million Marine and the change in Government, a new National newables is under development by the Ministry of expected to be completed by the end of 2009. It is any form of robust incentives for renewable and feed-in tariffs in place, nor is there a renewable orable tax incentives. The policy appears to rely on tives such as the Energy Efficiency and Conservation

Target 269

Country/Region	New Zealand		
Policy Type	Legislation		
Policy Name/Description	20% reduction in lighting energy consumption by 2015		
Date Announced	June, 2008	June, 2008	
Target Date	2015		
CO ₂ Abatement Potential	1 MT of abatement in 20	20	
Policy Category	Sector/Industry Specific	Regulation	
Related Emission Target(s)	Target 267		
Supporting Policies:	Financing in the form of a	a NZ\$12 million Low Carbon Energy Technology	
Mandates and Incentives	Fund.		
Investor Risk Assessment	Incentives: 1	Sovereign Credit Risk: 1	
Rationale (See exhibit 5)	Public Financing: 2	Integrated Plan: 1	
Lower Risk = 1; Moderate	Enforcement: 3	Implementation Capacity: 1	
Risk = 2; Higher Risk = 3	Monitoring: 1	Historical Achievement: 1	
Overall Risk Assessment	1		
Supporting Commentary	New Zealand from Octobe consumption by 20% by A detailed 3-year efficie goals in the plan, incestiminating inefficient fluighting. The goals are to specific programs and according to the lighting strategy has (ELG), which was formed and Conservation Author. The ELG is responsible needs through the strate of the strategy. Some Government funding	ency lighting action plan is in place with six specific luding eliminating inefficient incandescent lighting, uorescent lighting and eliminating inefficient street to be achieved through implementation of a number of ctions. The second developed by the Efficient Lighting Group do by the Electricity Commission, the Energy Efficiency crity and Lighting Council New Zealand. The for monitoring progress and adapting to changing agy framework. Analysis and reporting form a key part and is available through the NZ\$12 million Low Carbon cell as other government funding mechanisms which	

Africa

Target 1

All Business, "Solar Energy Integration With The EU", March, 2nd, 2009: http://www.allbusiness.com/energy-utilities/utilities-industry-natural-gas/11802132-1.html

Earthscan, "Feed-in tariffs go global":

http://www.earthscan.co.uk/Portals/0/pdfs/Mendonca_Jacobs_REW.pdf

Solar Places, Algeria Feed-in Law:

http://www.solarpaces.org/_Libary/AlgerianFeedInLaw.pdf

World Energy "Promotion of Renewable Energies in Algeria for A Sustainable Development and Better Future for next Generations": http://www.worldenergy.org/documents/p000983.doc

Target 2

Africa Investor, "Exporting the sunny side", March, 2009: http://www.africa-investor.com/article.asp?id=4676

All Business, "Solar Energy Integration With The EU", March, 2nd, 2009: http://www.allbusiness.com/energy-utilities/utilities-industry-natural-gas/11802132-1.htm

CBC News, "Algeria shoots for the sun", August, 2007:

http://www.cbc.ca/technology/story/2007/08/08/algeria-solar.html

Earthscan, "Feed-in tariffs go global":

http://www.earthscan.co.uk/Portals/0/pdfs/Mendonca_Jacobs_REW.pdf

People and Planet, "Solar thermal power comes to the boil":

http://www.peopleandplanet.net/doc.php?id=3343

Target 3

Renewable Energy Policy Network for the 21st Century, "Renewables Global Status Report, 2009 Update": http://www.ren21.net/pdf/RE_GSR_2009_Update.pdf

Noscasa - Cape Verde Property Services, "Cape Verde presents renewable energy program": http://www.noscasacv.com/PressReleases.aspx?press_id=46

People and Planet, "100 conference pledges to boost renewables": http://www.peopleandplanet.net/doc.php?id=3227

Cape Verde Portal, "Cape Verde presents renewable energy program in international conference":

http://www.capeverdeportal.com/The_News/Latest_CVP_News/13%1003%1008_-Cape_Verde_presents_renewable_energy_program_in_international_conference/

Target 4

All About Egypt, "Egypt renewable energy technologies": http://allaboutegypt.org/2009/08/25/egypt-renewable-energy-technologies/

Egypt State Information Service, "PM: Our goal is to turn Egypt into central state energy in region": http://www.sis.gov.eg/En/EgyptOnline/Economy/000010/0202000000000000009978.htm

Renewable Energy World Network for the 21st Century, "Satisfying 20% of the Egyptian generated electricity by renewable energies by 2020": http://www.ren21.net/pledges/commitment.asp?id=1251

The World Bank, "Egypt: Renewable Energy and Clean Transport Are Cornerstones of Low Carbon Growth": http://web.worldbank.org/WBSITE/EXTERNAL/NEWS/0, print: Y~isCURL: Y~contentMDK: 22203619~pagePK: 64257043~piPK: 437376~theSitePK: 4607,00.html

Target 5

Construction Week Online, "Libya champions renewables", June, 2009 http://www.constructionweekonline.com/article-5555-libya_champions_renewables/

Energy Information Administration, "Libya": http://www.eia.doe.gov/cabs/Libya/Full.html

Legal 500, "Libya - Overview": http://www.legal500.com/c/libya

Plan Bleu, "Libya - National Study's summary": http://www.planbleu.org/publications/atelier_energie/LY_Summary.pdf

Target 6

Business Week, "Madagascar - Broader Horizons": http://www.businessweek.com/adsections/2009/pdf/01.22.09 mad.pdf

Madagascar Ministry of Energy and Mines:

http://www.mem.gov.mg/index.php?option=com_content&task=view&id=111&Itemid=36

Renewable Energy World Network for the 21st Century, "National policies to achieve 54% renewable energy share by 2020": http://www.ren21.net/pledges/detail.asp?id=1075

Target 7

African Rural Energy Enterprise Development: http://www.areed.org/country/

Document of the World Bank, "Project Paper on A Proposed Additional Financing Credit to The Republic of Mali": http://www-wds.worldbank.org/external/default/WDSContentServer/WDSP/IB/2008/08/11/000333037_20080811235518/Rendered/PDF/448610PJPR0P111LY10IDA1R20081025411.pdf

Energy Recipes, "Developing Renewables - Mali":

http://www.energyrecipes.org/reports/genericData/Africa/061129%20RECIPES%20country%20info%20Mali.pdf

Global Environment Facility, "GEF Council approves \$16.41 Renewable Energy Project in Mali" http://www.gefweb.org/Outreach/Media/Press_Releases/Mali_Household_Energy.pdf

Target 8

Centre of Renewable Development, "Morocco's SWH Applications":

http://www.rcreee.org/Library_New/PDF/20090324SolarThermal/Session2_Solar%20Water%20Heaters%20in%20Morocco_Dakkina.pdf

Center for Resource Solutions, "Regional Renewable Energy Planning: International Case Studies, Lessons Learned", December, 2008: http://www.cresp.org.cn/uploadfiles/7/1034/regional renewable energy planning december 2008 final.pdf

European Wind Energy Council, "Wind Energy in Morocco, Potential & Projects", 2007: http://www.ewec2007proceedings.info/allfiles2/11 Ewec2007fullpaper.pdf

Magharebia, "Morocco seeks energy security", 2008:

http://www.magharebia.com/cocoon/awi/xhtml1/en_GB/features/awi/features/2008/07/16/feature-01

Resources & Engineering Department Renewable Energy Development Center Morocco: http://www.gtz.de/de/dokumente/cder2008-en-country-case-study-morocco.pdf

SciDev Net, "Morocco invests US \$3.2 billion in renewable energy", October, 2008: http://www.scidev.net/en/news/morocco-invests-us-3-2-billion-in-renewable-energy.html

Wind Energie, "Renewable Energy Policy And Wind Energy in Morocco, 2006: http://www.wind-energie.de/fileadmin/dokumente/Themen_A-Z/Entwicklungsdialog/GTZ_terna-haddouch-2006.pdf

Yacout, "Morocco: The details of the energy strategy 2020-2030": http://www.yacout.info/Morocco-The-details-of-the-energy-strategy-2020-2030 a258.html

Target 9

Federal Ministry of Power and Steel, Federal Republic of Nigeria, "Renewable Electricity Action Program (REAP), December 2006: http://www.iceednigeria.org/REAP-postconference.pdf

United Nations Development Program, Nigeria: http://web.ng.undp.org/environment.shtml

Earthscan, "Feed-in tariffs go global": http://www.earthscan.co.uk/Portals/0/pdfs/Mendonca_Jacobs_REW.pdf

Energy Commission of Nigeria:

 $\underline{\text{http://www.energy.gov.ng/index.php?option=com_docman\&task=cat_view\<emid=\&gid=19\&orderby=dmdate_published\&ascdesc=DESC}$

Target 10

Energy Information Administration, "International Energy Statistics" http://tonto.eia.doe.gov/cfapps/ipdbproject/IEDIndex3.cfm?tid=6&pid=29&aid=12

Ministry of Infrastructure, Rwanda "Budget":

http://mininfra.gov.rw/index.php?option=com_content&task=view&id=210&Itemid=350

Ministry of Infrastructure, Rwanda "Mission & Purpose":

http://mininfra.gov.rw/index.php?option=com_content&task=view&id=71&Itemid=268

Renewable Energy Policy Network of the 21st Century, "90% renewable energy in electricity by 2012 in Rwanda": http://www.ren21.net/pledges/detail.asp?id=1146

Target 11

African Rural Energy Enterprise Development: http://www.areed.org/country/senegal/inst_profile.pdf

African Rural Energy Enterprise Development, "Senegal": http://www.areed.org/country/senegal/senegal.pdf

BioPact, "Interview with Senegal's Minister of Biofuels and Renewable Energy", October, 21st, 2007: http://news.mongabay.com/bioenergy/2007/10/interview-with-senegals-minister-of.html

Renewable Energy Policy Network of the 21st Century, "National strategy for renewable energy development for poverty alleviation – Senegal": http://www.ren21.net/pledges/detail.asp?id=111

Target 12

Bloomberg, "South Africa to Set Greenhouse-Gas Emissions Targets": http://www.bloomberg.com/apps/news?pid=20601116&sid=aGTQw.PNqz40&refer=africa

Energy Information Administration, "South Africa – Background": http://www.eia.doe.gov/emeu/cabs/South_Africa/Background.html

Government of South Africa, Department of Environmental Affairs and Tourism, "Long Term Mitigation Scenarios: Strategic Options For South Africa": http://www.environment.gov.za/HotIssues/2008/LTMS/LTMS.html

Target 13

All Africa, "South Africa Renewable Energy": http://allafrica.com/stories/200906020120.html

Buy Environmental, "Nersa announces Renewable Energy Feed-In Tariffs": http://www.buy-environmental.co.za/index.php/lssue-6/Nersa-announces-Renewable-Energy-Feed-In-Tariffs.html

Department of Minerals and Energy Republic of South Africa, "Renewable Energy Framework": http://www.dme.gov.za/pdfs/energy/Renewable%20Energy%20Framework%20_2_pdf

Department of Minerals and Energy Republic of South Africa, "Renewable Energy Summit, 2009 – Summit Resolutions", April, 2009: http://www.dme.gov.za/pdfs/energy/Energy_Summit/RE%20summit%20Resolution%2008042009%20final-without%20timelines.pdf

Department of Minerals and Energy Republic of South Africa, "Tradable Renewable Energy Certification System (TRECS)": http://www.dme.gov.za/energy/renew_TRECS.stm

Department of Minerals and Energy Republic of South Africa, "White Paper on Renewable Energy": http://www.dme.gov.za/pdfs/energy/renewable/white_paper_renewable_energy.pdf

Energy Information Administration, "South Africa": http://www.eia.doe.gov/emeu/cabs/South_Africa/Background.html

Engineering News, "Industry players skeptical about SA's 2013 renewable target" August, 2009: http://www.engineeringnews.co.za/article/industry-players-sceptical-about-sas-2013-renewable-target-2009-08-18

International Energy Agency, "Renewables and Waste in South Africa in 2006": http://www.iea.org/textbase/stats/renewdata.asp?COUNTRY_CODE=ZA

Trade Law Centre for Southern Africa, "Renewable energy tariffs under scrutiny": http://www.tralac.org/cgi-bin/giga.cgi?cmd=cause_dir_news_item&cause_id=1694&news_id=59957&cat_id=1092

Target 14

Renewable Energy Policy Network of the 21st Century, "Promotion of renewable energy to reach 10% in national energy demand by 2011 and reduction of total demand – Tunisia": http://www.ren21.net/pledges/detail.asp?id=1131

Mediterranean Renewable Energy Programme, "Presentation": http://www.medrec.org/en/about_medrec.php

Target 15

Renewable energy & energy efficiency partnership, "In Uganda: Government renewables strategy makes the jump from words to action", January, 2008:

http://www.reeep.org/9863.8928/in-uganda-government-renewables-strategy-makes-the-jump-from-words-to-action.htm

Renewable Energy Policy Network of the 21st Century, "Support of Renewable Energy Development in Uganda":

http://www.ren21.net/iap/commitment.asp?id=127

Civil Engineering and Geosciences, Newcastle University, "Renewable energy in Uganda": http://www.ceg.ncl.ac.uk/reimpact/Uganda.htm

Lead Journal, "Review of the policy and legal framework for implementing clean development mechanism projects in Uganda and its implications for climate change mitigation": http://www.ceg.ncl.ac.uk/reimpact/Uganda.htm

Asia

Target 16

Green Prophet, "Israel, Egypt & Abu Dhabi all set renewable energy goals": http://www.greenprophet.com/2009/01/25/6305/israel-egypt-abu-dhabi-energy-goals/

Masdar, "Abu Dhabi Commits US\$15 billion to alternative, clean technology", January, 2009: http://www.masdaruae.com/mediaCenter/newsDesc.aspx?fst=mc&nws=20

Masdar, "Remarks of Dr Sultan Ahmed Al Jaber - World Future Energy Summit Opening Ceremony": http://www.masdaruae.com/en/mediaCenter/newsDesc.aspx?News_ID=62&MenuID=55

Renewable Energy World, "Abu Dhabi sets 7% renewable target", January, 19th, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/01/abu-dhabi-sets-7-percent-renewables-target-54536

The Guardian, "The Arab royal who's going off oil", January, 20th, 2009: http://www.guardian.co.uk/environment/blog/2009/jan/20/energy-oil-abudhabi

Target 17

Energy Bangla, "Bangladesh unveils renewable energy policy": http://www.energybangla.com/index.php?mod=article&cat=EBReport&article=1247

Ministry of Power, Energy and Mineral Resources Government of the People's Republic of Bangladesh, "Renewable Energy Policy of Bangladesh", November, 2008: http://www.powerbangladesh.com/Renewable_Energy_Policy.pdf

Renewable Energy Policy Network for the 21st Century, "Renewables Global Status Report 2009": http://www.ren21.net/pdf/RE_GSR_2009_Update.pdf

Solar Home Review, "Renewable Bangladesh", August, 2009: http://www.solarhomereview.com/2009/08/renewable-bangladesh.html

Target 18

China.Org, "US \$88 million in subsidies for energy-saving light bulbs": http://www.china.org.cn/environment/policies_announcements/2009-06/10/content_17922126.htm

National Development and Reform Commission People's Republic of China, "China's National Climate Change Programme", June, 2007: http://www.ccchina.gov.cn/WebSite/CCChina/UpFile/File188.pdf

National Renewable Energy Laboratory, "Renewable Energy in China, Renewable Energy Policy in China: Financial Incentives": http://www.nrel.gov/docs/fy04osti/36045.pdf

Pew Center on Global Climate Change, Pew Environment Group, "Actions by Key Countries on Climate Change": http://www.pewglobalwarming.org/ourwork/international/bonn/climateaction.pdf

Reuters, "China to offer subsidy for green lighting products", June, 10th, 2009:

Science Direct, "China's energy efficiency target 2010":

http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V2W-4R3BWFR-

 $\frac{3\& user=10\& rdoc=1\& fmt=\& orig=search\& sort=d\& docanchor=\&view=c\& searchStrId=955637198\& rerunOrigin=google\\ &_acct=C000050221\&_version=1\&_urlVersion=0\&_userid=10\&md5=5172b063f353253fc295d6def896f20e$

World Resources Institute, "Measuring Climate Change Progress in China", February, 2009: http://www.wri.org/stories/2009/02/measuring-climate-change-progress-china

Target 19

Business Green, "China to set solar feed-in tariff by year-end", August, 2008: http://www.businessgreen.com/business-green/news/2248318/china-set-solar-feed-tariff

Econsense, "Fact Sheet Renewable Energy":

http://www.climate-policy-map.econsense.de/factsheets_download/factsheet-renewable-energy.pdf

Information Office of the State Council of the People's Republic of China, "China's Energy Conditions and Policies": http://www.ccchina.gov.cn/WebSite/CCChina/UpFile/File229.pdf

National Development and Reform Commission (NDRC) People's Republic of China, "Medium and Long-Term Development Plan for Renewable Energy in China", September, 2007:

 $\underline{\text{http://www.chinaenvironmentallaw.com/wp-content/uploads/2008/04/medium-and-long-term-development-plan-for-renewable-energy.pdf}$

New and Renewable Energy, "China Renewable Energy for greater growth", January, 20th, 2009: http://www.newandrenewableenergy.com/2009/01/chinas-renewable-enery-for-greater.html

Renewable Energy World "The Renewable Energy Law The People's Republic of China": http://www.renewableenergyworld.com/assets/download/China_RE_Law_05.doc

Reuters, "China have set a Renewable Energy Target of 10% of Electric Power Capacity by 2010", March, 11th, 2008: http://www.reuters.com/article/pressRelease/idUS39879+12-Mar-2008+BW20080312

The Guardian, "China launches green power revolution to catch up on the west", June, 2009: http://www.guardian.co.uk/world/2009/jun/09/china-green-energy-solar-wind

Target 20

China Environment Law, "A mighty wind", May, 6th, 2009: http://www.chinaenvironmentallaw.com/2009/05/06/a-mighty-wind/

National Development and Reform Commission (NDRC) People's Republic of China, "Medium and Long-Term Development Plan for Renewable Energy in China", September, 2007: http://www.chinaenvironmentallaw.com/wp-content/uploads/2008/04/medium-and-long-term-development-plan-for-renewable-energy.pdf

Silobreaker, "China's Nuclear Energy Target for 2020 is 86 GW and Wind Energy Target of 150 GW", July, 4th, 2009: http://www.silobreaker.com/chinas-nuclear-energy-target-for-2020-is-86-gigawatts-and-wind-energy-target-of-150-gw-5-2262434322361352211

The Guardian, "China launches green power revolution to catch up on the west", June, 2009: http://www.guardian.co.uk/world/2009/jun/09/china-green-energy-solar-wind

Wikipedia, "Wind power in China": http://en.wikipedia.org/wiki/Wind_power_in_China

Target 21

China Daily, "China Solar set to be 5 times 2020 target", May, 5th, 2009: http://www.chinadaily.com.cn/bizchina/2009-05/05/content 7745470.htm

Forbes, "China's plan to rule the sun", June, 2009: http://www.forbes.com/2009/09/16/china-solar-power-business-energy-china-solar.html

iStockAnalyst, "China to add 20 GW of PV power generating units in 2010-20, big stimulus to PVi", June, 26th, 2009: http://www.istockanalyst.com/article/viewiStockNews/articleid/3314960

National Development and Reform Commission (NDRC) People's Republic of China, "Medium and Long-Term Development Plan for Renewable Energy in China", September, 2007: http://www.chinaenvironmentallaw.com/wp-content/uploads/2008/04/medium-and-long-term-development-plan-for-renewable-energy.pdf

The Guardian, "China launches green power revolution to catch up on the west", June, 2009: http://www.guardian.co.uk/world/2009/jun/09/china-green-energy-solar-wind

Target 22

Business Standard, "India to add 6,000 MW wind power by 2012; but below target": http://www.business-standard.com/india/storypage.php?tp=on&autono=44562

Global Green, "India": http://www.globalgreen.org/solarreportcard/India.pdf

Government of India Ministry of New and Renewable Energy: http://mnes.nic.in/

Government of India Ministry of New and Renewable Energy, "XIth Plan Proposals for New and Renewable Energy", June, 2006: http://mnes.nic.in/pdf/11th-plan-proposal.pdf

Pew Center on Global Climate Change, "Climate Change Mitigation Measures in India", September, 2008: http://www.pewclimate.org/docUploads/India-FactSheet-09-08.pdf

Pew Center on Global Climate Change, "Summary: India's National Action Plan on Climate Change", June, 2008: http://www.pewclimate.org/international/country-policies/india-climate-plan-summary/06-2008

Planning Commission, Government of India, "Eleventh Five Year Plan (2007-2012): http://planningcommission.gov.in/plans/planrel/11thf.htm

Press Information Bureau Government of India, "PM released National Action Plan on Climate Change", June. 30th, 2008: http://www.pib.nic.in/release/release.asp?relid=39899

Target 23

Global Green, "India": http://www.globalgreen.org/solarreportcard/India.pdf

Global Wind Energy Council, "India – Great wind potential": http://www.gwec.net/index.php?id=124

Government of India Ministry of New and Renewable Energy, "XIth Plan Proposals for New and Renewable Energy", June, 2006: http://mnes.nic.in/pdf/11th-plan-proposal.pdf

Pew Center on Global Climate Change, "Summary: India's National Action Plan on Climate Change", June, 2008: http://www.pewclimate.org/international/country-policies/india-climate-plan-summary/06-2008

Press Information Bureau Government of India, "PM released National Action Plan on Climate Change", June. 30th, 2008: http://www.pib.nic.in/release/release.asp?relid=39899

Renewable Energy World, "Renewable Energy Holds Promising Future in India", April, 18th, 2008: http://www.renewableenergyworld.com/rea/news/article/2008/04/renewable-energy-holds-promising-future-in-india-52214

Target 24

Asian Development Bank, "Renewable Energy and Efficiency In Indonesia – Workshop on Climate Change and Energy", March, 27th, 2009: http://www.adb.org/documents/events/2009/Climate-Change-Energy-Workshop/Renewable-Energy-Girianna.pdf

Ministry of Energy and Mineral Resources Republic of Indonesia, "Indonesia's Renewable Energy Potential", August 25th, 2008: http://www.esdm.go.id/news-archives/general/49-general/1963-indonesias-renewable-energy-potential.html

Renewable Energy Network for the 21st Century, "Indonesia New National energy policy to optimize the national primary energy mix by increasing share of renewable energy to 15% in 2025: http://www.ren21.net/pledges/detail.asp?id=1097

Target 25

Bloomberg, "Japan to Buy Emission Allowances From Ukraine; Seeks Czech Deal": http://www.bloomberg.com/apps/news?pid=20601101&sid=ayqBRclo0eoE&refer=japan

David Suzuki Foundation, "Who's meeting their Kyoto targets?", May, 2006: http://www.davidsuzuki.org/files/climate/Kyoto_Progress.pdf

IOL, "Industrial world losing sight of Kyoto target", October, 13th, 2006: http://www.iol.co.za/index.php?set_id=1&click_id=31&art_id=qw116072424316B264

Pew Center on Global Climate Change, Pew Environment Group, "Actions by Key Countries on Climate Change": http://www.pewglobalwarming.org/ourwork/international/bonn/climateaction.pdf

Reuters, "Japan eyes mandatory cap-and-trade in 2011/12", September, 19th, 2009: http://www.reuters.com/article/environmentNews/idUSTRE58J03020090920

Reuters, "Japan stimulus may not help cut emissions", April, 9th, 2009: http://www.reuters.com/article/environmentNews/idUSTRE5383L020090409

The Wall Street Journal, "Japan Pledges to Cut Emissions by 15%", June, 11th, 2009: http://online.wsj.com/article/SB124462901241601729.html

United Nations Environment Programme, "The Environment in the News", March, 17th, 2009: http://www.unep.org/cpi/briefs/2009Mar17.doc#hongkong

United Nations Framework Convention on Climate Change, "Kyoto Protocol": http://unfccc.int/kyoto_protocol/items/3145.php

Target 26

American Gas Association, "The strategy for realizing a low carbon society through the use of natural gas":

http://www.aga.org/NR/rdonlyres/F8AABAAC-9A6F-448C-9DB5-AA33FE0B699B/0/0909MURAZEKI.PPT#9

BBC News, "Japan vows future emissions cut", June, 8th, 2008: http://news.bbc.co.uk/1/hi/7443833.stm

National Institute for Environmental Studies, "2050 Japan Low-Carbon Society", June 2008: http://2050.nies.go.jp/material/2050_LCS_Scenarios_Actions_English_080715.pdf

Reuters, "Japan eyes mandatory cap-and-trade in 2011/12", September, 19th, 2009: http://www.reuters.com/article/environmentNews/idUSTRE58J03020090920

Ricoh Group, "Year 2010 Long-Term Environmental Goals and Promotion of Sustainable Environmental Management": http://www.ricoh.com/environment/report/pdf2004/13-14.pdf

The Guardian, "Japan unveils new emissions target", June, 9th, 2008: http://www.guardian.co.uk/world/2008/jun/09/japan.climatechange

Target 27

National Institute for Environmental Studies, "2050 Japan Low-Carbon Society", June 2008: http://2050.nies.go.jp/material/2050_LCS_Scenarios_Actions_English_080715.pdf

Office for Electricity Supply and Demand Coordination Policy, Ministry of Economy, Trade and Industry Japan, "Electric power sector and clean coal technology in Japan", April, 2008 http://www.asiapacificpartnership.org/pdf/CFE/meeting_melbourne/CountryUpdate-Japan-Ogoshi.pdf

Reuters, "Japan utilities set 2020/21 CO2 emissions target", April, 17th, 2009: http://www.reuters.com/article/rbssUtilitiesElectric/idUST32315420090417

Target 28

Climate Change Corp, "Carbon Map: Asia and Middle East", December, 2008: http://www.climatechangecorp.com/content_print.asp?ContentID=5842

Energy Matters, "Japan announced solar feed-in tariffs", February, 25th, 2009: http://www.energymatters.com.au/index.php?main_page=news_article&article_id=335

International Energy Agency, "Renewables in Global Energy Supply", January, 2007: http://www.iea.org/textbase/papers/2006/renewable_factsheet.pdf

Ministry of Economy, Trade and Industry, Japan: http://www.meti.go.jp/english/

Ministry of Economy, Trade and Industry, Japan, Agency for Natural Resources and Energy: http://www.enecho.meti.go.jp/english/index.htm

New Energy and Industrial Technology Development Organization, "New Energy Introduction Policies of the Japanese Government and NEDO's Activities": http://www.nedo.go.jp/kokusai/report/01.pdf

Pew Center on Global Climate Change, Pew Environment Group, "Worldwide Action on Global Warming": http://www.pewglobalwarming.org/resources/poznan/3_Worldwide_Action.pdf

Renewable Energy Network for the 21st Century, "Expanding introduction of renewable energy to 3% of total primary energy supply by 2010": http://www.ren21.net/pledges/detail.asp?id=1064

Target 29

EGMCartech, "Toyota says Prius already exceeds Japan's 2015 fuel economy standards", August, 2007: http://www.egmcartech.com/2007/08/14/toyota-says-prius-already-exceeds-japans-2015-fuel-economy-standards/

Energy Conservation Center, Japan: "Final Report of Joint Meeting between the Automobile Evaluation Standards Subcommittee, Energy Efficiency Standards Subcommittee of the Advisory Committee for Natural Resources and Energy and the Automobile Fuel Efficiency Standards Subcommittee, Automobile Transport Section, Land Transport Division of the Council for Transport Policy", February, 2007: http://www.eccj.or.jp/top_runner/pdf/vehicles_gasdiesel_feb2007.pdf

Japan for Sustainability, "New Standards Drafted to Improve Fuel Efficiency by 24% in 2015", February, 2007: http://www.japanfs.org/en/pages/026599.html

Pew Charitable Trusts, "Worldwide Action on Global Warming":

http://www.pewtrusts.org/uploadedFiles/wwwpewtrustsorg/Fact Sheets/Global warming/world%20wide%20actiosnpdf.pdf

United Nations Environment Program, "GreenJobs", Section 3, Transport: http://www.unep.org/labour_environment/PDFs/Greenjobs/UNEP-GreenJobs-E-Bookp148-171-Part2section3.pdf

WorldWatch Institute, "Wind of change in the US Auto industry", May, 2009: http://www.worldwatch.org/node/6116

Target 30

Alliance for Renewable Energy, "Japan announces Solar Feed-in Tariff": http://www.allianceforrenewableenergy.org/2009/02/japan-announces-solar-feed-in-tariff.html

Committee on Renewable Energy Promotion Policy, "Proposal: A Renewable Energy Promotion Policy for Achieving a Low-carbon Society", February, 2009: http://www.env.go.jp/en/earth/cc/lcs/conf-re_rcm/proposal.pdf

Jetro, "Japan views Green Energy as Essential for Global Economic Recovery", March, 2009: http://www.jetro.org/documents/JETRO_Focus_March2009.pdf

NEDO, "Current New and Renewable Energy Priorities in Japan", April, 2009: http://www.egnret.ewg.apec.org/meetings/engret32/Japan%20RE%20priorities.pdf

Prime Minister of Japan and His Cabinet, "Action Plan for Achieving a Low-Carbon Society", July, 29th, 2008: http://www.kantei.go.jp/foreign/policy/ondanka/final080729.pdf

Target 31

European Wind Energy Association, "Future Prospects for Wind Power Markets":

http://www.ewea.org/fileadmin/ewea_documents/documents/publications/factsheets/factsheet_future2.pdf

Global Wind Energy Council, "Japan": http://www.gwec.net/index.php?id=123

Green Tech Media, "Japan's Wind-Energy Problem" April, 2008: http://www.greentechmedia.com/articles/read/japans-wind-power-problem-828/

Institute for Sustainable Energy Policies, "Renewable energy policy and politics in Japan", February, 2008: http://2050.nies.go.jp/3rdLCSWS/presentation/ppt_Tetsunarilida.pdf

Wind Watch, "Japan wind farm building slows on tighter rules", June, 24th, 2008: http://www.wind-watch.org/news/2008/06/24/japan-wind-farm-building-slows-on-tighter-rules/

Target 32

American University of Beirut, "Status of Jordan Renewable Energy Sector: Problems, Needs and Challenges": http://webfea.fea.aub.edu.lb/fea/research/erg/RCW/Status%20of%20Jordan%20Renewable%20Energy%20Sector.pdf

National Energy Research Center, Jordan, "Updated Master Strategy of Energy Sector in Jordan for the period (2007-2020)" http://www.nerc.gov.jo/Download/english%20-energy%20strategy.pdf

Renewable Energy Policy Network for the 21st Century, "Promoting the utilization of renewable energy sources to share 10% in the primary energy by the year 2020": http://www.ren21.net/pledges/detail.asp?id=1054

Zawya, "Energy diversification programme to leverage scarce resources, cut oil bill", April, 2009: https://www.zawya.com/printstory.cfm?storyid=ZAWYA20090415033355&l=033300090415

Target 33

Ministry of Foreign Affairs of Denmark, "The Environmental Sector": http://www.ambkualalumpur.um.dk/en/menu/CommercialServices/MarketOpportunities/Sectoranalyses/EnvironmentAndEnerg v/TheEnvironmentalSector/?printmode=True

Renewable energy & energy efficiency partnership, "Policy DB Details; Malaysia": http://www.reeep.org/index.php?id=9353&text=policy-db&special=viewitem&cid=34

The Institute of Energy Economics, Japan, "Energy Demand and Supply Outlook – Malaysia", 2006: http://www.ieej.or.jp/aperc/2006pdf/Outlook2006//ER Malaysia.pdf

United Nations ESCAP, "Electricity and Sustainable Development in Asia and the Pacific 2003-2005 – Malaysia": http://www.unescap.org/esd/energy/information/ElectricPower/2003-2005/Malaysia.asp

Target 34

Renewable Energy Policy Network for the 21st, "Pakistan Renewable Energy Initiatives": Centuryhttp://www.ren21.net/iap/commitment2.asp?id=106

Pakistan Council of Renewable Energy Technologies: http://www.pcret.gov.pk/

Target 35

Asian Development Bank, "Status of Renewable Energy Policy in the Philippines": http://www.adb.org/documents/events/2009/CCEWeek/Presentation-Vincent-Perez-Energy-PHI.pdf

Philippines Department of Energy, "Renewable Energy": http://www.doe.gov.ph/ER/Renenergy.htm

Renewable Energy Policy Network for the 21st Century, "Doubling Generating Capacity from Renewable Energy Sources by 2013 – Philippines": http://www.ren21.net/iap/commitment.asp?id=108

Reuters, "ABD targets \$2 billion clean energy investment by 2013", July, 2009: http://www.reuters.com/article/GCA-GreenBusiness/idUSTRE55G1R020090617

Target 36

Asian Development Bank, "ADB to Help Philippines Save \$100 Million Yearly Fuel Cost by Using Energy-Efficient Lights", February, 2nd, 2009:

http://www.adb.org/media/Articles/2009/12782-philippines-energies-efficiencies/

EDIE, "Philippines joins light bulb ban trend", February, 12th, 2008: http://www.edie.net/news/news_story.asp?id=14190

Encyclopedia.com, "Philippines to Ban Incandescent Bulbs": http://www.encyclopedia.com/doc/1A1-D8UK5SE00.html

GreenUpAndGo, "Philippines plan to ban incandescent light bulbs", February, 2008: http://www.greenupandgo.com/green-news/philippines-plan-to-ban-incandescent-light-bulbs/

Target 37

Huffington Post, "Green New Deal for South Korea: \$38.1 billion": http://www.huffingtonpost.com/2009/01/06/green-new-deal-for-south-_n_155504.html

Renewable Energy World, "Feed-in tariffs have earned a role in US energy policy", August, 31st, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/08/feed-in-tariffs-have-earned-a-role-in-us-energy-policy

The Guardian, "South Korea lights the way on carbon emissions with its £23 bn green deal", April, 21st, 2009: http://www.guardian.co.uk/environment/2009/apr/21/south-korea-environment-carbon-emissions

World Energy Council, "Survey of Energy Resources 2007": http://www.worldenergy.org/publications/survey_of_energy_resources_2007/wind_energy/country_notes/2008.asp

Target 38

Huffington Post, "Green New Deal for South Korea: \$38.1 billion": http://www.huffingtonpost.com/2009/01/06/green-new-deal-for-south-_n_155504.html

Renewable Energy World, "Feed-in tariffs have earned a role in US energy policy", August, 31st, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/08/feed-in-tariffs-have-earned-a-role-in-us-energy-policy

The Guardian, "South Korea lights the way on carbon emissions with its £23 bn green deal", April, 21st, 2009: http://www.guardian.co.uk/environment/2009/apr/21/south-korea-environment-carbon-emissions

World Energy Council, "Survey of Energy Resources 2007": http://www.worldenergy.org/publications/survey_of_energy_resources_2007/wind_energy/country_notes/2008.asp

Target 39

Green Car Congres, "South Korea Sets Dual Vehicle Efficiency Targets for 2015: Fuel Economy of 17 km/L (40 mpg) or 140 g CO2/km", July, 6th, 2009: http://www.greencarcongress.com/2009/06/korea-20090604.html

JoongAng Daily, "Carmakers told to green up their acts or else", July, 2009: http://joongangdaily.joins.com/article/view.asp?aid=2907087

The Guardian, "South Korea lights the way on carbon emissions with its £23 bn green deal", April, 21st, 2009: http://www.guardian.co.uk/environment/2009/apr/21/south-korea-enviroment-carbon-emissions

World Resources Institute, "South Korea": http://projects.wri.org/book/export/html/22

Target 40

Climate Change Taiwan, "Mitigating Global Warming": http://sd.erl.itri.org.tw/fccc/en/index.html

Ministry of Economic Affairs, Taiwan, "Framework of Taiwan's Sustainable Energy Policy", June, 2008: http://210.69.152.10/English/files/Framework%20of%20Taiwan's%20Sustainable%20Energy%20Policy.pdf

UK in Taiwan, "Why Taiwan must adopt greenhouse targets?": http://ukintaiwan.fco.gov.uk/en/working-with-taiwan/climate-change/what-we-can-do/greenhouse-targets

Target 41

Climate Change Taiwan, "Mitigating Global Warming": http://sd.erl.itri.org.tw/fccc/en/index.html

Energy Information Administration, "Taiwan", 2005: http://www.eia.doe.gov/emeu/cabs/taiwan.html

Ministry of Economic Affairs, Taiwan, "Framework of Taiwan's Sustainable Energy Policy", June, 2008: http://www.moeaboe.gov.tw/English/files/Framework%20of%20Taiwan's%20Sustainable%20Energy%20Policy.pdf

Target 42

Ministry of Economic Affairs, Taiwan, "Framework of Taiwan's Sustainable Energy Policy", June, 2008: http://210.69.152.10/English/files/Framework%20of%20Taiwan's%20Sustainable%20Energy%20Policy.pdf

Wikipedia, "Energy In Taiwan": http://en.wikipedia.org/wiki/Energy_in_Taiwan

Europe

Target 43

Earth Times, "EU emissions falling towards Kyoto target. Agency says", May, 29th, 2009: http://www.earthtimes.org/articles/show/270938.eu-emisions-falling-towards-kyoto-target-agency-says--summary.html

EU Observer, "EU-15 mostly on track to meet Kyoto targets", November, 17th, 2008: http://euobserver.com/9/26955/?rk=1

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Friends of the Earth Europe, "New data shows EU must radically strengthen measures to reduce emissions", June, 18th, 2008: http://www.foeeurope.org/press/2008/Jun18 Kyoto targets remain distant prospect for EU countries.html

United Nations Convention on Climate Change, "Seminar of Governmental Experts", May, 2005: http://unfccc.int/files/meetings/seminar/application/pdf/sem_abs_ec.pdf

Target 44

<u>Climate Action Network Europe, "Energy and Climate Policy in Europe":</u>
http://www.climnet.org/EUenergy/EU <u>Energy Package Outcome.html</u>

Department of Energy and Climate Change, "European Energy and Climate Change": http://www.decc.gov.uk/en/content/cms/what_we_do/change_energy/european/european.aspx

EUROPA, "Commission welcomes adoption of climate and energy package", April, 23rd, 2009: http://europa.eu/rapid/pressReleasesAction.do?reference=IP/09/628

EUROPA, European Commission, Environment, "Climate Action":

http://ec.europa.eu/environment/climat/climate_action.htm

Target 45

Climate Action Network Europe, "Energy and Climate Policy in Europe": http://www.climnet.org/EUenergy/EU_Energy_Package_Outcome.html

EurActiv "EU Emissions Trading Scheme", January, 22nd, 2007: http://www.euractiv.com/en/climate-change/eu-emissions-trading-scheme/article-133629

EurActiv, "EU unveils plans to beef up carbon trading scheme", January, 23rd, 2008": http://www.euractiv.com/en/climate-change/eu-unveils-plans-beef-carbon-trading-scheme/article-169819

EUROPA, "Questions and Answers on the Decision on effort sharing": http://europa.eu/rapid/pressReleasesAction.do?reference=MEMO/08/797

European Parliament, "Fine Member States that fail to meet national emission reduction targets, says Environment Committee": http://www.europarl.europa.eu/sides/getDoc.do?language=EN&type=IM-PRESS&reference=20081006IPR38800

Wikepedia, "European Union Emission Trading Scheme": http://en.wikipedia.org/wiki/European Union Emission Trading Scheme

Target 46

Bloomberg, "EU Negotiations Delay Car CO2 Caps, Bowing to Germany", December, 2nd, 2008: http://www.bloomberg.com/apps/news?pid=20601130&sid=aBsNS ACEtg0

Business Green, "Deadlock over EU car emission rules finally broken", December, 2nd, 2008: http://www.businessgreen.com/business-green/news/2231738/deadlock-eu-car-emission-rules

Council of the European Union, "Council adopts climate-energy legislative package", April, 6th, 2009: http://www.consilium.europa.eu/uedocs/cms data/docs/pressdata/en/misc/107136.pdf

EurActiv, "Cars & CO2", September, 19th, 2007: http://www.euractiv.com/en/transport/cars-co2/article-162412

EUROPA, "The Commission launches a major Recovery Plan for growth and jobs, to boost demand and restore confidence in the European economy", November, 26th, 2008: http://europa.eu/rapid/pressReleasesAction.do?reference=IP/08/1771

European Commission i2010 Intelligent Car Initiative, "European Green Car Initiative with a focus on Electric Vehicle", March, 2009: http://www.esafetysupport.org/download/090305%20EGCI%20FEV%20EH.pdf

European Parliament, "Position of the European Parliament", December, 17th, 2008: http://www.europarl.europa.eu/sides/getDoc.do?pubRef=-//EP//NONSGML+TC+P6-TC1-COD-2007-0297+0+DOC+PDF+V0//EN

Target 47

Chemical Week, "EU May Pump €8 Billion into Carbon Capture and Storage", July, 1st, 2009: http://www.chemweek.com/envirotech/r_and_d/EU-May-Pump-&euro8-Billion-into-Carbon-Capture-and-Storage_19941.html

European Commission: DG Environment, "Towards an EU policy Framework for CCS": http://unfccc.int/files/meetings/sb24/in-session/application/pdf/il_ccs_presentation_20_may_bonn.pdf

European Technology Platform for Zero Emission Fossil Fuel Power Plants (ZEP), "EU Demonstration Programme for CO2 Capture and Storage (CCS):

 $\frac{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP's\%20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP's\%20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP/EU\%20Demonstration\%20Programme\%20for\%20CCS\%20-w20ZEP/EU\%20Demonstration\%20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstration\%20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstration\%20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstrationw20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstrationw20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstrationw20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20Demonstrationw20Proposal.pdf}{\text{http://www.zero-emissionplatform.eu/website/docs/ETP\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP/EU\%20ZEP$

Reuters, "EU vote backs tough carbon caps for power plants", October, 7th, 2008: http://www.reuters.com/article/GCA-GreenBusiness/idUSTRE4965X820081007

The Regulatory Assistance Project, "A Greenhouse Gas Emissions Performance Standard for the European Union: Design and Implementation Considerations", November, 14th, 2008:

http://www.raponline.org/Pubs/MG-FinalEPSforEUWord2003UPDATED2-8-09.pdf

Target 48

Allen & Overy, "In Profile – The Aviation EU ETS and its Impact", April, 2009: http://elink.allenovery.com/getFile.aspx?ItemType=In%20Profile&id=8a08aee8-b901-4bd9-ac2c-6855810e81f5

Altimedes Consulting, "Aviation and the EU Emissions Trading Scheme": http://www.altimedes.com/aviation.htm

Green Logistics Consultants Group, "Aviation and the EU ETS – How to comply with the ETS obligations", February, 2009: http://www.airets.org/Aviation%20and%20the%20EU%20ETS.pdf

Target 49

European Union@United Nations, "Climate Change: EU Commission welcomes final adoption of Europe's climate and energy package": http://www.eu-un.europa.eu/articles/en/article_8378_en.htm

HART, "New EU Directive: More than Fuel Quality": http://www.hartfuel.com/200902/f.pubpolicyEU.html

Infomag, "Climate-Energy Legislation", June, 2009: http://infomag.eucck.org/site/view/view.htm?num=7092

Official Journal of the European Parliament, "Directive 2009/30/EC Of The European Parliament And Of The Council": http://www.estelasolar.eu/fileadmin/ESTELAdocs/documents/Directive 2009-30-EC.pdf

Target 50

<u>EUROSOLAR Info, "The success of feed-in tariffs in Europe", June, 2006:</u> http://www.eurosolar.de/en/images/stories/pdf/Infoblatt_EU_EEG-Vergleich05_en.pdf

EurActiv, "Enforcement of EU renewables law 'faltering'", April, 30th, 2009: http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

EurActiv, "Report: EU 2010 renewables target 'out of reach'", February, 8th, 2008: http://www.euractiv.com/en/energy/report-eu-2010-renewables-target-reach/article-170201

EEA – Indicator Management Service (IMS) "Renewable primary energy consumption – Assessment published Apr 2008": http://ims.eionet.europa.eu/IMS/ISpecs/ISpecification20041007132201/IAssessment1196270734705/view_content

European Commission, "Renewable Energy: White Paper laying down a Community strategy and action plan", 1997: http://europa.eu/legislation_summaries/other/l27023_en.htm

Target 51

BBC News, "EU Climate Package Explained", January, 21st, 2009:

http://news.bbc.co.uk/1/hi/world/europe/7765094.stm

EurActiv, "Enforcement of EU renewables law 'faltering'", April, 30th, 2009: http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

EUROPA, "Action Plan for Energy Efficiency (2007-12): http://europa.eu/legislation_summaries/energy/energy_efficiency/l27064_en.htm

EUROPA, "Memo on the Renewable Energy and Climate Change Package", January, 23rd, 2008: http://europa.eu/rapid/pressReleasesAction.do?reference=MEMO/08/33

EUROSOLAR Info, "The success of feed-in tariffs in Europe", June, 2006: http://www.eurosolar.de/en/images/stories/pdf/Infoblatt EU EEG-Vergleich05 en.pdf

Target 52

Deutsche Bank Advisors, "Global Climate Change Regulation Policy Developments: July 2008-February 2009", February, 2009: http://www.db.com/usa/download/Global_Climate_Change_Regulation_Feb_2009.pdf

EurActiv, "Biofuel makers denounce target downgrade", September, 12th, 2008: http://www.euractiv.com/en/transport/biofuel-makers-denounce-target-downgrade/article-175298

EurActiv, "EU agrees 10% 'green fuel' target in renewables deal", December, 5th, 2008: http://www.euractiv.com/en/transport/eu-agrees-10-green-fuel-target-renewables-deal/article-177812

EurActiv, "EU Car Industry gets Green Rescue Plan", November, 27th, 2008: http://www.euractiv.com/en/transport/eu-car-industry-gets-green-rescue-plan/article-177535

European Commission i2010 Intelligent Car Initiative, "European Green Car Initiative with a focus on Electric Vehicle", March, 2009: http://www.esafetysupport.org/download/090305%20EGCI%20FEV%20EH.pdf

European Commission Research, "Fuel Cells and Hydrogen – Joint Technology Initiative": http://ec.europa.eu/research/fch/index_en.cfm

Target 53

Deutsche Bank Advisors, "Global Climate Change Regulation Policy Developments: July 2008-February 2009", February, 2009: http://www.db.com/usa/download/Global_Climate_Change_Regulation_Feb_2009.pdf

EUROPA, "Action Plan for Energy Efficiency (2007-12): http://europa.eu/legislation_summaries/energy/energy_efficiency/l27064_en.htm

EUROPA, "Memo on the first assessment of National Energy Efficiency Action Plans (NEEAP)", January, 23rd, 2080: http://europa.eu/rapid/pressReleasesAction.do?reference=MEMO/08/32&format=HTML&aged=0&language=EN&guiLanguage e=en

EUROPA, "Memo on the Renewable Energy and Climate Package", January, 23rd, 2008: http://europa.eu/rapid/pressReleasesAction.do?reference=MEMO/08/33

Target 54

Environmental Leader, "EU Formalizes Ban on Inefficient Lighting", March, 20th, 2009: http://www.environmentalleader.com/2009/03/20/eu-formalizes-ban-on-inefficient-lighting-by-2012/

EurActiv, "EU to phase out energy-guzzling light bulbs", March, 19th, 2009: http://www.euractiv.com/en/energy-efficiency/eu-phase-energy-guzzling-light-bulbs/article-180420

EUROPA, "Member States approve the phasing-out of incandescent bulbs by 2012", December, 8th, 2008:

 $\underline{\text{http://europa.eu/rapid/pressReleasesAction.do?reference=IP/08/1909\&format=HTML\&aged=0\&language=EN\&guiLanguage=en}\\$

The Telegraph, "EU ban on traditional lightbulbs prompts panic buying", August, 25th, 2009: http://www.telegraph.co.uk/earth/energy/6082853/EU-ban-on-traditional-lightbulbs-prompts-panic-buying.html

Target 55

EUROPA, "GHG trends and projections in Austria": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/austria-greenhouse-gas-profile-summary-1990-2020.pdf

Google, "Austria unlikely to meet Kyoto target: court" November, 6th, 2008: http://afp.google.com/article/ALeqM5g4G410fQzeegX08eUQQKJFI1UE-w

Pew Center on Global Climate Change, "Press Release: Report Reviews National Climate Change Programs of Five EU Countries and their Kyoto Targets", June, 21st, 2000:

http://www.pewclimate.org/press_room/sub_press_room/2000_press_releases_/pr_621report.cfm

Target 56

Austria Government, "The Austrian Climate Strategy": http://umwelt.lebensministerium.at/article/articleview/71847/1/7781/

E-Control, "Green Electricity in Austria":

http://www.oekostromforum.at/portal/page/portal/ECONTROL_HOME/OKO/DOWNLOADS/EU_BERICHTE/NEA-OECD%20GENERATION%20COSTS%20AUSTRIA.PDF

European Commission, "Austria Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008 res sheet austria en.pdf

International Energy Agency, "Austria -Green Electricity Act - 2006": http://zeus.iea.org/textbase/pm/?mode=cc&action=detail&id=2274

Target 57

Austria Government, "The Austrian Climate Strategy": http://umwelt.lebensministerium.at/article/articleview/71847/1/7781/

EUROPA, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

European Commission, "Austria Renewable Energy Fact Sheet", January, 23rd, 2008 http://www.energy.eu/renewables/factsheets/2008_res_sheet_austria_en.pdf

Official Journal of the European Union, "Directive 2009/28/EC of The European Parliament And The Council of 23 April, 2009"

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:140:0016:0062:EN:PDF

Reegle, "Austrian Energy agency (AEA)":

http://www.reegle.info/actors/1922/austrian-energy-agency.htm

Renewable Energy World "EU passes New Climate Directive", December, 10th, 2008: http://www.renewableenergyworld.com/rea/news/article/2008/12/eu-passes-new-climate-directive-54273

Target 58

EUROPA, "GHG trends and projections in Belgium": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/belgium-greenhouse-gas-profile-summary-1990-2020.pdf

EU Observer, "EU-15 mostly on track to meet Kyoto targets", November, 17th, 2008: http://euobserver.com/9/26955/?rk=1

European Voice, "Emissions all for third year", May, 29th, 2009: http://www.europeanvoice.com/article/2009/05/emissions-fall-for-third-year/65020.aspx

International Energy Agency, "Summary and Recommendations": http://www.iea.org/Textbase/npsum/belgium01sum.pdf

Target 59

European Commission, "Belgium Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_belgium_en.pdf

EREC, "Belgium, Renewable Energy Policy Review":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/BELGIUM_RES_Policy_Review__09_Final.pdf

New Europe, "150 mln-Euro EIB loan for renewable energy efficiency", May, 25th, 2009: http://www.neurope.eu/articles/94425.php

Target 60

EREC, "Belgium, Renewable Energy Policy Review":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/BELGIUM_RES_Policy_Review__09_Final.pdf

EUROPA, "Renewable Energy Country Profiles", February, 2008:

http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

European Commission, "Belgium Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008 res sheet belgium en.pdf

New Europe, "150 mln-Euro EIB loan for renewable energy efficiency", May, 25th, 2009: http://www.neurope.eu/articles/94425.php

Official Journal of the European Union, "Directive 2009/28/EC Of The European Parliament And The Council of 23 April, 2009": http://eur-lex.europa.eu/LexUriServ/LexUriServ/do?uri=OJ:L:2009:140:0016:0062:EN:PDF

Renewable Energy World "EU passes New Climate Directive", December, 10th, 2008: http://www.renewableenergyworld.com/rea/news/article/2008/12/eu-passes-new-climate-directive-54273

Target 61

Austrian Energy Agency, "Bulgaria Energy Policy, Legislative Background": http://www.enercee.net/bulgaria/energy-policy.html

European Commission, "Bulgaria Renewable Energy Fact Sheet": http://www.energy.eu/renewables/factsheets/2008 res sheet bulgaria en.pdf

EUROPA, "GHG trends and projections in the Bulgaria": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/bulgaria-greenhouse-gas-profile-summary-1990-2020.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Target 62

EREC, "Renewable Energy Policy Review Bulgaria":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/BULGARIA_RES_Policy_Review 09_Final.pdf

EurActiv, "Enforcement of EU renewables law faltering":

http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

European Bank for Reconstruction and Development, "Bulgaria", April, 2009:

http://www.ebrd.com/pubs/factsh/country/bulgaria.pdf

European Commission, "Bulgaria Renewable Energy Fact Sheet":

http://www.energy.eu/renewables/factsheets/2008 res sheet bulgaria en.pdf

Invest Bulgaria Agency, "Bulgaria: Renewable Energy Sources Factsheet", March, 2009:

http://www.investbg.government.bg/upfs/27/10%20Renewable%20Energy%20Sources%20Factsheet%20March%202009.pdf

Republic of Bulgaria, Ministry of Economy, Energy and Tourism: http://www.mi.government.bg/eng/

Target 63

Cyprus Energy Regulatory Authority, "Responsibilities of Cyprus Energy Regulatory Authority": http://www.cera.org.cy/main/default.aspx?tabid=75

Cyprus Institute of Energy: http://www.cie.org.cy/

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

EurActiv, "Enforcement of EU renewables law faltering":

http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

European Commission, "Cyprus Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_cyprus_en.pdf

Renewable Energy Policy Network for the 21st Century, "Cyprus action plan for the promotion of renewable energy sources, 2002-2010": http://www.ren21.net/iap/commitment.asp?id=47

Target 64

Renewable Energy Policy Network for the 21st Century, "Renewable Energy Plan for the Czech Republic": http://www.ren21.net/pledges/commitment.asp?id=48

European Commission, "Czech Republic Renewable Energy Fact Sheet": http://www.energy.eu/renewables/factsheets/2008_res_sheet_czech_republic_en.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Target 65

Czech Energy Regulatory Office, Electricity Department, "Support of Renewable Electricity in the Czech Republic", February, 2007: http://www.futures-e.org/WS-Warsaw/Status%20of%20RES-E%20-%20Czech%20(Warsaw,%2029-02-2008).pdf

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress country profiles february 2008 final.pdf

Energy Regulatory Office, Czech Republic: http://www.eru.cz/dias-read_article.php?articleId=331

EREC, "Renewable Energy Policy Review The Czech Republic":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/CZECH_REPUBLIC_RES_Policy_Review_09_Final.p

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Czech Republic - Price Regulation":

http://res-legal.eu/en/search-for-countries/czech-republic/single/land/tschechien/instrument/price-regulation-4/ueberblick/foerderung.html?bmu%5BlastShow%5D=5&cHash=f363f811ee

Renewable Energy Policy Network for the 21st Century, "Renewable energy plan for Czech Republic": http://www.ren21.net/iap/commitment.asp?id=48

Target 66

Czech Energy Regulatory Office, Electricity Department, "Support of Renewable Electricity in the Czech Republic", February, 2007: http://www.futures-e.org/WS-Warsaw/Status%20of%20RES-E%20-%20Czech%20(Warsaw,%2029-02-2008).pdf

Ecofys, "Renewable Energy Country Profiles", February, 2008:

http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

Energy Regulatory Office, Czech Republic: http://www.eru.cz/dias-read_article.php?articleId=331

EREC, "Renewable Energy Policy Review The Czech Republic":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/CZECH_REPUBLIC_RES_Policy_Review_09_Final.p df

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Czech Republic - Price Regulation": http://res-legal.eu/en/search-for-countries/czech-republic/single/land/tschechien/instrument/price-regulation-4/ueberblick/foerderung.html?bmu%5BlastShow%5D=5&cHash=f363f811ee

Renewable Energy Policy Network for the 21st Century, "Renewable energy plan for Czech Republic": http://www.ren21.net/iap/commitment.asp?id=48

Target 67

Czech Energy Regulatory Office, Electricity Department, "Support of Renewable Electricity in the Czech Republic", February, 2007: http://www.futures-e.org/WS-Warsaw/Status%20of%20RES-E%20-%20Czech%20(Warsaw,%2029-02-2008).pdf

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

Energy Regulatory Office, Czech Republic: http://www.eru.cz/dias-read_article.php?articleld=331

EREC, "Renewable Energy Policy Review The Czech Republic":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/CZECH_REPUBLIC_RES_Policy_Review_09_Final.p

EurActiv, "EU renewable energy policy": http://www.euractiv.com/en/energy/eu-renewable-energy-policy/article-117536

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Czech Republic - Price Regulation":

 $\frac{http://res-legal.eu/en/search-for-countries/czech-republic/single/land/tschechien/instrument/price-regulation-\\ \frac{4/ueberblick/foerderung.html?bmu%5BlastShow%5D=5\&cHash=f363f811ee}{}$

Renewable Energy Policy Network for the 21st Century, "Renewable energy plan for Czech Republic": http://www.ren21.net/iap/commitment.asp?id=48

Target 68

Climate Progress, "15 EU countries on track to meet Kyoto targets", October, 18th, 2008: http://climateprogress.org/2008/10/18/15-eu-countries-on-track-to-meet-kyoto-targets/

EUROPA, "GHG trends and projections in Denmark": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/denmark-greenhouse-gas-profile-summary-1990-2020.pdf

Ice News, "Denmark failing to meet Kyoto targets", February, 23rd, 2009: http://www.icenews.is/index.php/2009/02/23/denmark-failing-to-meet-kyoto-targets/

Target 69

BioPact, "Denmark sets renewable target at 20% by 2011: biomass, biogas, biohydrogen, wind", February, 22nd, 2008: http://news.mongabay.com/bioenergy/2008/02/denmark-sets-renewables-target-at-20.html

China Climate Change Info-Net, "Denmark sets renewable target at 20 percent by 2011": http://www.ccchina.gov.cn/en/NewsInfo.asp?NewsId=10952

Danish Energy Agency, Denmark, "Promotion of Renewable Energy Act", January, 2009: http://www.ens.dk/en-US/supply/Renewable-energy/Documents/Renewable%20Energy%20Act%20_VE%20loven.pdf

Ministry of Foreign Affairs of Denmark: http://www.denmark.dk/en/menu/About-Denmark/Environment-Energy-Policy-2008-2011/Denmarks-Energy-Policy.htm

Nordic Energy Solutions, "Renewable energy in Denmark":

 $\underline{\text{http://www.nordicenergysolutions.org/performance-policy/denmark/renewable-energy-in-denmark}}$

Renewable Energy Focus, "Denmark continues its renewable traditions" July, 18th, 2008: http://www.renewableenergyfocus.com/view/843/denmark-continues-its-renewable-tradition-/

Target 70

California Energy Commission, "Feed-In Tariffs", August, 2006: http://www.energy.ca.gov/2007 energypolicy/documents/2006-08-22 workshop/presentations/4-FEED-IN TARIFFS-K-PORTER.PDF

Danish Energy Agency, "Danish Climate and Energy Policy":

http://www.ens.dk/en-US/policy/danish-climate-and-energy-policy/Sider/danish-climate-and-energy-policy.aspx

Danish Energy Agency, Denmark, "Promotion of Renewable Energy Act", January, 2009: http://www.ens.dk/en-US/supply/Renewable-energy/Documents/Renewable%20Energy%20Act%20_VE%20loven.pdf

Energy Agency, Denmark, "Promotion of Renewable Energy Act", January, 2009: http://www.ens.dk/en-US/supply/Renewable-energy/Documents/Renewable%20Energy%20Act%20_VE%20loven.pdf

International Energy Agency, Policies and Measures, "Agreement on Danish Energy Policy 2008-2011": http://www.ren21.net/pledges/commitment.asp?id=1012

Target 71

EREC, "Renewable Energy Policy Review, Estonia":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/ESTONIA_RES_Policy_Review_09_Final.pdf

EUROPA, "GHG trends and projections in the Estonia": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/estonia-greenhouse-gas-profile-summary-1990-2020.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Target 72

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

EREC, "Renewable energy Policy Review, Estonia":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/ESTONIA_RES_Policy_Review_09_Final.pdf

EurActiv, "Enforcement of EU renewables law faltering":

http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

Renewable Energy & Energy Efficiency Partnership, "Policy DB Details: Estonia": http://www.reeep.org/index.php?id=9353&text=policy-db&special=viewitem&cid=3

Target 73

EurActiv, "Kyoto targets remain distant prospect for EU countries" June, 18th, 2008: http://pr.euractiv.com/node/3787

EUROPA, "GHG trends and projections in Finland": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/finland-greenhouse-gas-profile-summary-1990-2020.pdf

Target 74

Arctic Startup, "Wind Feed-In Tariff (Finally) In Finland", May, 11th, 2009: http://www.arcticstartup.com/2009/05/11/wind-feed-in-tariff-finally-in-finland/

EREC, "Renewable Energy Policy Review, Finland":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/FINLAND_RES_Policy_Review__09_Final.pdf

European Commission, "Finland Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_finland_en.pdf

Global Solar Thermal Energy Council, "Renewable Energies Sources in Finland - OPET Report (2002)":

http://www.solarthermalworld.org/taxonomy/term/1380

Motiva, "Action Plan for renewable energy in Finland", March, 2005: http://www.motiva.fi/files/1459/Action_Plan_for_renewable_energy_in_Finland.pdf

Target 75

Arctic Startup, "Wind Feed-In Tariff (Finally) In Finland", May, 11th, 2009: http://www.arcticstartup.com/2009/05/11/wind-feed-in-tariff-finally-in-finland/

Energy&Enviro Finland, "Finland is prepared to perform its share of the EU's climate targets", October, 2008: http://www.energy-enviro.fi/index.php?PAGE=2150&NODE_ID=2150&LANG=1

EREC, "Renewable Energy Policy Review, Finland":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/FINLAND_RES_Policy_Review_ 09 Final.pdf

European Commission, "Finland Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_finland_en.pdf

Motiva, "Action Plan for renewable energy in Finland", March, 2005: http://www.motiva.fi/files/1459/Action_Plan_for_renewable_energy_in_Finland.pdf

Target 76

Business Green, "Despite Kyoto "success" emissions keep climbing", November, 18th, 2008: http://www.businessgreen.com/business-green/news/2230718/despite-kyoto-success-emissions

EUROPA, "GHG trends and projections in France": http://www.eea.europa.eu/themes/climate/ghq-country-profiles/tp-reportcountry-profiles/france-greenhouse-gas-profile-summary-1990-2020.pdf

Republique Francaise, Ministere de L'Economie Des Finances, "The Factor 4 Objective: Addressing the Climate Challenge in France": http://www.developpement-durable.gouv.fr/energie/prospect/pdf/facteur4-rapport-final-engl.pdf

United Nations Convention on Climate Change, "EU GHG Monitoring Mechanism": http://unfccc.int/files/meetings/archive/application/vnd.ms-powerpoint/eu_10_01.pps#1

Target 77

ECOFYS, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

Econsense, "Fact Sheet Renewable Energy":

http://www.climate-policy-map.econsense.de/factsheets_download/factsheet-renewable-energy.pdf

EUROPA, "France, Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables_frenewables_fr_en.pdf

France, Ministry of Ecology, "Industrie, energie et dechets", 2004: http://www.ecologie.gouv.fr/IMG/pdf/plan-action-4-4.pdf

Target 78

European Commission, "France Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_france_en.pdf

Expatia, "France to double green share of electricity market":

http://www.expatica.com/fr/news/local_news/France-to-double-green-share-of-electricity-market_47421.html

Solar Wind Systems, "France Raises Solar Feed-in Tariffs", November, 2008:

 $\underline{\text{http://www.solarwindsystems.com.au/index.php?option=com_content\&view=article\&id=81:france-raises-solar-feed-intariffs\&catid=1:latest-news}$

Target 79

ECEEE, "France to phase-out inefficient lamps from 2009", October, 2008: http://www.eceee.org/news/news_2008/2008-10-27/

ENDS Europe, "France to phase-out inefficient lamps from 2009", October, 2008: http://www.endseurope.com/15664

International Energy Agency, Policies and Measures, "Incandescent Lamp Phase-Out, France": http://www.iea.org/Textbase/pm/?mode=pm&id=4218&action=detail

Target 80

EUROPA, "GHG trends and projections in Germany":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_de_en.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Target 81

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Climate Protection: Greenhouse Gas Emissions in 2008 at their lowest since 1990":

http://www.bmu.de/english/current_press_releases/pm/43723.php

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "New Thinking – New Energy, Energy Policy Road Map 2020":

http://www.erneuerbare-energien.de/files/pdfs/allgemein/application/pdf/roadmap_energiepolitik_en.pdf

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "The Federal Government's climate policy in the wake of a European Council":

http://www.bmu.de/english/speeches/doc/39349.php

Leonardo Energy, "UK and Germany set ambitious emission reduction targets": http://www.leonardo-energy.org/uk-and-germany-set-ambitious-emission-reduction-targets

Spiegel Online International, "Germany not likely to achieve CO2 reduction targets", August, 2008: http://www.spiegel.de/international/germany/0,1518,644677,00.html

Target 82

EREC, "Renewable Energy Policy Review Germany": http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/GERMANY_RES_Policy_Review_09_Final.pdf

EUROPA, "Germany - Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_de_en.pdf

Wind Works, "Feed-in Tariffs and Renewable Energy in the USA – a Policy Update", May, 2008: http://www.wind-works.org/FeedLaws/USA/Feed-in_Tariffs_and_Renewable_Energy_in_the_USA_-_a_Policy_Update.pdf

Target 83

Energy Daily, "EU sets national renewable energy targets for 2020", January, 23rd, 2008:

http://www.energy-daily.com/reports/EU_sets_national_renewable_energy_targets_for_2020_999.html

EurActiv, "EU renewable energy policy", July, 2009:

http://www.euractiv.com/en/energy/eu-renewable-energy-policy/article-117536

EUROPA, "Germany - Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_de_en.pdf

European Commission, "Germany Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_germany_en.pdf

Federal Ministry for the Environment Nature Conservation and Nuclear Safety, "Renewable Energy in Germany": http://www.powermin.nic.in/whats_new/pdf/Germany_Schaf_RE.pdf

Renewable Energy World, "Germany: The World's First Major Renewable Energy Economy", April, 3rd, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/04/germany-the-worlds-first-major-renewable-energy-economy

The Joint Global Change Research Institute, "History of Support for Renewable Energy in Germany":

http://www.globalchange.umd.edu/energytrends/germany/3/

Wuppertal Institute for Climate, Environment and Energy, "The German Renewable Energy Act – Success and ongoing Challenges", January, 2004: http://www.wupperinst.org/uploads/tx_wibeitrag/renewable-energy-act.pdf

Target 84

EUROPA, "Germany – Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_de_en.pdf

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "New Thinking – New Energy, Energy Policy Road Map 2020", January, 2009:

http://www.erneuerbare-energien.de/files/pdfs/allgemein/application/pdf/roadmap_energiepolitik_en.pdf

Renewable Energy World, "Germany: The World's First Major Renewable Energy Economy", April, 3rd, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/04/germany-the-worlds-first-major-renewable-energy-economy

Wuppertal Institute for Climate, Environment and Energy, "The German Renewable Energy Act – Success and ongoing Challenges", January, 2004: http://www.wupperinst.org/uploads/tx_wibeitrag/renewable-energy-act.pdf

Target 85

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Act on the Promotion of Renewable Energies in the Heat Sector of 2008":

http://www.erneuerbare-energien.de/files/pdfs/allgemein/application/pdf/ee_waermeg_en.pdf

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "General Information - Biomass": http://www.erneuerbare-energien.de/inhalt/42722/

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "The Renewable Energies Heat Act in brief": http://www.erneuerbare-energien.de/files/pdfs/allgemein/application/pdf/ee_waermegesetz_fragen_en.pdf

Renewable Energy Policy Network for the 21st Century, "Renewable Energies Heat Act to help increase share of renewable energies in heat provision to 14% by 2020": http://www.ren21.net/wiap/detail.asp?id=90

Target 86

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "New Thinking – New Energy, Energy Policy Road Map 2020", January, 2009:

http://www.erneuerbare-energien.de/files/pdfs/allgemein/application/pdf/roadmap_energiepolitik_en.pdf

Federal Ministry of Economics and Technology, "Energy Efficiency": http://www.german-renewable-energy.com/Renewables/Navigation/Englisch/energy-efficiency.html

Federal Ministry of Economics and Technology, "Energy Efficiency": "Towards a sustainable economy - German experiences in the fields of energy efficiency and renewable energies":

http://www.german-renewable-energy.com/Renewables/Redaktion/PDF/en/Vortraege-2009/en-Renexpo-2009-Eimannsberger,property=pdf,bereich=renewables,sprache=en,rwb=true.pdf

New Energy World Network, "Germany to support energy efficiency with new policy", January, 30th, 2009: http://www.newenergyworldnetwork.com/renewable-energy-news/by_technology/energy_efficiency/germany-tosupport-energy-efficiency-with-new-policy.html

Reuters, "Germany sets tougher power goals to protect climate", April, 26th, 2007: http://www.reuters.com/article/environmentNews/idUSBAT00173720070426

SEPCo Document Library, "Energy Efficiency Policy for Households in Germany": http://www.ises.org/sepconew/Pages/EE_Policy_in_Germany/2.html

Target 87

Certh, "Greenhouse gas emission trends and projections in Greece 2006": http://www.certh.gr/dat/BA4F83B2/file.pdf?633803284231971250

Environmental Expert, "Greece must embrace renewable energy to meet Kyoto targets", August, 4th, 2008: http://www.environmental-expert.com/resulteachpressrelease.aspx?cid=8819&codi=35407

European Environment Agency, "EU-15 on track for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Target 88

Bloomberg, "Greek Deficit Will Be Double EU Limit, Minister Says", September, 17th, 2009: http://www.bloomberg.com/apps/news?pid=20601085&sid=aO7UgpYK91sU

Boston Globe, "Greece lags on renewable energy", August, 2009:

http://www.boston.com/news/world/europe/articles/2009/08/02/greece_lags_on_renewable_energy/

EUROPA, "Greece - Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_el_en.pdf

European Commission, "Greece Renewable Energy Fact Sheet":

http://www.energy.eu/renewables/factsheets/2008 res sheet greece en.pdf

European Environment Agency, "Share of renewable electricity in gross electricity consumption in EU-27 in 2006 (and 2010 indicative targets): http://dataservice.eea.europa.eu/atlas/viewdata/viewpub.asp?id=4107

Green Jobs, "Greece Ends Moratorium and Confirms Solar PV Feed Tariffs", January, 2009: http://www.greenjobs.com/Public/IndustryNews/inews05364.htm

Target 89

Bloomberg, "Greek Deficit Will Be Double EU Limit, Minister Says", September, 17th, 2009: http://www.bloomberg.com/apps/news?pid=20601085&sid=aO7UgpYK91sU

Boston Globe, "Greece lags on renewable energy", August, 2009:

http://www.boston.com/news/world/europe/articles/2009/08/02/greece_lags_on_renewable_energy/

Ecofys, "Renewable Energy Country Profiles", February, 2008:

http://ec.europa.eu/energy/renewables/doc/progress country profiles february 2008 final.pdf

EU business, "EU sets national renewable energy targets for 2020":

http://www.eubusiness.com/news-eu/1201102322.1

European Commission, "Greece Renewable Energy Fact Sheet", January, 23rd, 2008 http://www.energy.eu/renewables/factsheets/2008_res_sheet_greece_en.pdf

European Commission, Commission of the European Communities, "The support of electricity from renewable energy sources": http://ec.europa.eu/energy/res/biomass_action_plan/doc/2005_12_07_comm_biomass_electricity_en.pdf

Hellenic Republic Embassy of Greece, "Development minister presents 2008-2020 strategic plan to PM Karamanlis, parliament president", August, 2007:

http://www.greekembassy.org/embassy/content/en/Article.aspx?office=5&folder=925&article=21419

Target 90

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

EREC, "Renewable Energy Policy Review, Hungary":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/HUNGARY_RES_Policy_Review__09_Final.pdf

Target 91

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

EREC, "Renewable Energy Policy Review Hungary":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/HUNGARY_RES_Policy_Review__09_Final.pdf

European Commission, "Hungary Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_hungary_en.pdf

Hungarian Energy Office: http://www.eh.gov.hu/home/html/index.asp?msid=1&sid=0&HKL=1&Ing=1

Hungarian Investment And Trade Development Agency, "Renewable Energy": http://www.itdh.com/engine.aspx?page=ltdh Priority Sectors Renewable Energy

NATTA, "Renewable Energy - an introduction": http://www.natta-renew.org/Introduction%20to%20Renewables

Target 92

European Commission, "Ireland Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_ireland_en.pdf

Irish Times, "Ireland much closer to Kyoto emissions target due to economic slump", March, 13th, 2009: http://www.irishtimes.com/newspaper/ireland/2009/0313/1224242799199.html

Sustainable Energy Ireland: http://www.sei.ie/

Target 93

Department of Communications, Energy and Natural Resources, Ireland, "Energy White Paper 2007 – Delivering A Sustainable Energy Future For Ireland":

http://www.dcenr.gov.ie/Energy/Energy+Planning+Division/Energy+White+Paper.htm

EREC, "Renewable Energy Policy Review, Ireland":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/IRELAND_RES_Policy_Review_09_Final.pdf

European Commission, "Ireland Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008 res sheet ireland en.pdf

Target 94

Department of Communications, Energy and Natural Resources, Ireland, "Energy White Paper 2007 - – Delivering A Sustainable Energy Future For Ireland":

http://www.dcenr.gov.ie/Energy/Energy+Planning+Division/Energy+White+Paper.htm

Engineers Journal, "Can we reach national and EU targets for renewable energy?", Volume 63:Issue 4, May, 2009: http://www.iei.ie/media/engineersireland/services/engineersjournal/2009/2009issue4/Can%20we%20reach%20renewable%20 energy%20targets.pdf

Irish Times, "Renewable energy sources to account for 40% of output by 2020", December, 2008: http://www.irishtimes.com/newspaper/ireland/2008/1219/1229523103633.html

Target 95

Department of Communications, Energy and Natural Resources, Ireland, "Energy White Paper 2007 – Delivering a Sustainable Energy Future for Ireland":

http://www.dcenr.gov.ie/Energy/Energy+Planning+Division/Energy+White+Paper.htm

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

Engineers Journal, "Can we reach national and EU targets for renewable energy?", Volume 63:Issue 4, May, 2009: http://www.iei.ie/media/engineersireland/services/engineersjournal/2009/2009issue4/Can%20we%20reach%20renewable%20energy%20targets.pdf

Sustainable Energy Ireland, "Liquid Biofuels Strategy Study for Ireland": http://www.sei.ie/uploadedfiles/InfoCentre/LiquidbiofuelFull.pdf

Target 96

EUROPA, "GHG trends and projections in Italy": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/italy-greenhouse-gas-profile-summary-1990-2020.pdf

European Environment Agency, "EU-15 on track for Kyoto, despite mixed performances":

http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

European Environment Agency, "EU must take immediate action on Kyoto targets": http://www.eea.europa.eu/pressroom/newsreleases/ghgtrends2006-en

Target 97

European Commission, "Italy Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_italy_en.pdf

EUROPA, "Italy - Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_it_en.pdf

Forbes, "Italy court ruling on CIP6 incentive cuts impact Edison, Sares, ERG – analysts", January, 2008: http://www.forbes.com/feeds/afx/2008/01/24/afx4570425.html

Wind Works, "Italy launches New Solar PV Feed-In Tariffs Among the Highest in Europe", June, 2007: http://www.wind-works.org/FeedLaws/Italy/ItalyLaunchesNewSolarPVTariffs.html

Target 98

EREC, "Energy Law in Latvia, Recent Developments in Latvian Energy Market": http://www.rln.lv/en/publications/European_Energy_Review.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

European Commission, "Latvia Renewable Energy Fact Sheet":

http://www.energy.eu/renewables/factsheets/2008 res sheet latvia en.pdf

Target 99

EurActiv, "Enforcement of EU renewables law faltering": http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

Ministry of the Environment Latvia, "Climate Policy and Technology Department": http://www.vidm.gov.lv/eng/par_ministriju/struktura/?info=21

Ministry of the Environment Latvia, "Strategy for Use of Renewable energy sources 2006-2013 in Latvia" http://www.norstore.ife.no/workshops/2007 Latvia/Presentations/0531 01 Petersone.pdf

World Future Council Policy Action on Climate Toolkit: http://onlinepact.org/latvia.html

Target 100

EUROPA, "GHG trends and projections in Lithuania": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/lithuania-greenhouse-gas-profile-summary-1990-2020.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Lithuanian Environmental Investment Fund, "About us": http://www.laaif.lt/index.php?1954113588

Target 101

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

EREC, "Renewable Energy Policy Review Lithuania":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/LITHUANIA_RES_Policy_Review__09_Final.pdf

Republic of Lithuania, Ministry of Environment: http://www.am.lt/VI/en/VI/index.php

Seimas of The Republic of Lithuania, "Resolution on The Approval of the National Energy Strategy", January, 2007: http://www3.lrs.lt/pls/inter3/dokpaieska.showdoc_l?p_id=292522

Target 102

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

EREC, "Renewable Energy Policy Review Lithuania":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/LITHUANIA_RES_Policy_Review__09_Final.pdf

Republic of Lithuania, Ministry of Environment: http://www.am.lt/VI/en/VI/index.php

Seimas of The Republic of Lithuania, "Resolution on The Approval of the National Energy Strategy", January, 2007: http://www3.lrs.lt/pls/inter3/dokpaieska.showdoc_l?p_id=292522

Target 103

European Commission, "Luxembourg Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_luxembourg_en.pdf

European Environment Agency, "EU-15 on track for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

International Energy Agency, "Executive Summary and Key Recommendations": http://www.iea.org/textbase/npsum/Luxembourg2008sum.pdf

Target 104

EREC, "Renewable Energy Policy Review, Luxembourg":

 $\underline{\text{http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/LUXEMBOURG_RES_Policy_Review_09_Final.pdf}$

EurActiv, "Enforcement of EU renewables law 'faltering'", April, 30, 2009: http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

EUROPA, "Luxembourg, Highlights in 2008": http://ec.europa.eu/environment/pdf/policy/luxembourg.pdf

European Commission, "Luxembourg Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_luxembourg_en.pdf

Government of Luxembourg, Environment, "Energies Renouvelables": http://www.environnement.public.lu/energies_renouvelables/index.html

International Energy Agency, "Executive Summary and Key Recommendations": http://www.iea.org/Textbase/npsum/luxembourg2008SUM.pdf

Target 105

Ecofys, "Renewable Energy Country Profiles", February, 2008: http://ec.europa.eu/energy/renewables/doc/progress country profiles february 2008 final.pdf

EREC, "Renewable Energy Policy Review, Malta"

http://www.erec.org/fileadmin/erec docs/Projcet Documents/RES2020/MALTA RES Policy Review 09 Final.pdf

Target 106

European Environment Agency, "EU-15 on track for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

EUROPA, "GHG trends and projections in the Netherlands": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/netherlands-greenhouse-gas-profile-summary-1990-2020.pdf

Netherlands Environmental Assessment Agency, "A multi-gas abatement analysis of the Kyoto Protocol": http://www.pbl.nl/en/publications/2005/A_multi-gas_abatement_analysis_of_the_Kyoto_Protocol.html

Target 107

Energy Daily, "EU sets national renewable energy targets for 2020", January, 23rd, 2008: http://www.energy-daily.com/reports/EU sets national renewable energy targets for 2020 999.html

EUROPA, "Netherlands – Renewable Energy Fact Sheet": http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_nl_en.pdf

Netherlands Foreign Investment Agency: http://www.nfia.com/

European Commission, "Netherlands Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008 res sheet netherlands en.pdf

Target 108

European Commission, "Netherlands Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008 res sheet netherlands en.pdf

Netherlands Foreign Investment Agency: http://www.nfia.com/

Red Orbot, "Latest EU Renewables Directive Set to Benefit RWE and the Netherlands" April, 2nd, 2008:

http://www.redorbit.com/news/business/1322528/latest eu renewables directive set to benefit rwe and the/

Renewable Energy Development, "Targets": http://renewableenergydev.com/red/targets/

Target 109

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances":

http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

EUROPA, "GHG trends and projections in Poland": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/poland-greenhouse-gas-profile-summary-1990-2020.pdf

Target 110

EREC, "Renewable Energy Policy Review Poland":

http://www.erec.org/fileadmin/erec_docs/Project_Documents/RES2020/POLAND_RES_Policy_Review_09_Final.pdf

European Commission, "Poland Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_poland_en.pdf

International Energy Agency, "Energy Policy of Poland Until 2025": http://www.iea.org/textbase/pm/?mode=re&id=3632&action=detail

Ministry of Economy, Poland, "New draft of The Polish Energy Policy until 2030":

http://www.mg.gov.pl/NR/rdonlyres/033D8417-33CC-4054-9781-E19487CFF784/48244/NewdraftofThePolishEnergyPolicyuntil2030.pdf

Trade and Investment Promotion Sections of Polish Embassies, "Poland's Energy Policy until 2020": http://polska.trade.gov.pl/en/aktualnosci/article/a,3286,Polands_Energy_Policy_until_2030.html

Target 111

Ends Europe, "Portugal makes progress towards Kyoto target", May, 25th, 2009: http://www.endseurope.com/21399

EUROPA, "GHG trends and projections in the Portugal": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/portugal-greenhouse-gas-profile-summary-1990-2020.pdf

European Environment Agency, "EU-15 on track for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Online Democracy, "Portugal says it can meet Kyoto Emission Goals" February, 15th, 2006: http://ins.onlinedemocracy.ca/index.php?name=News&file=article&sid=6550&theme=Printer

Target 112

EUROPA, "Portugal – Renewable Energy Fact Sheet": http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_pt_en.pdf

European Commission, "Portugal Renewable Energy Fact Sheet", January, 23, 2008: http://www.energy.eu/renewables/factsheets/2008_res_sheet_portugal_en.pdf

The Guardian, "World's biggest solar farm at centre of Portugal's ambitious energy plan", June, 6th, 2008:

http://www.guardian.co.uk/environment/2008/jun/06/renewableenergy.alternativeenergy

Target 113

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

EUROPA, "GHG trends and projections in Romania": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/romania-greenhouse-gas-profile-summary-1990-2020.pdf

The Regional Environmental Center, "GHG projections of Romania – How much is available": http://www.rec.org/REC/Programs/ClimateChange/Green_Investment_Romania/documents/6GHG%20projections%20of%20 Romania-How%20much%20is%20available_Celikyilmaz-Aydemir.ppt

Target 114

EurActiv, "EU renewable energy policy":

http://www.euractiv.com/en/energy/eu-renewable-energy-policy/article-117536

European Commission, "Romania Renewable Energy Fact Sheet":

http://www.energy.eu/renewables/factsheets/2008_res_sheet_romania_en.pdf

Wikepedia, Ministry of the Environment and Sustainable Development:

http://en.wikipedia.org/wiki/Ministry of the Environment and Sustainable Development

Target 115

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

EUROPA, "GHG trends and projections in the Slovak Republic": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/slovak-republic-greenhouse-gas-profile-summary-1990-2020.pdf

Target 116

Energy Centre Bratislava, Liberalisation Study Country Report: Slovakia, http://www.agreenet.info/publications/market/Slovakia.doc

EurActiv, "EU renewable energy policy": http://www.euractiv.com/en/energy/eu-renewable-energy-policy/article-117536

European Commission, "Slovakia Renewable Energy Fact Sheet":

http://www.energy.eu/renewables/factsheets/2008 res sheet slovak republic en.pdf

EREC, "Renewable Energy Policy Review Slovakia":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/SLOVAKIA_RES_Policy_Review_09_Final.pdf

Renewable Energy Development, "Targets": http://renewableenergydev.com/red/targets/

Target 117

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Regional Environment Center, "National Emission Projections Climate Change Strategies in Selected CEECs": http://www.rec.org/REC/Programs/Sofialnitiatives/EcoInstruments/GreenBudget/GreenBudget6/emissions.html

United Nations Convention on Climate Change, "Slovenia's Report on Demonstrable Progress under the Kyoto Protocol", June, 2006: http://unfccc.int/resource/docs/dpr/svn1.pdf

Target 118

EurActiv, "Enforcement of EU renewables law faltering":

http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

EUROPA, "2008 Environment Policy Review - Annex, Slovenia": http://ec.europa.eu/environment/pdf/policy/slovenia.pdf

European Commission "Slovenia Renewable Energy Fact Sheet", January, 23rd, 2008: http://www.energy.eu/renewables/factsheets/2008 res sheet slovenia en.pdf

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Slovenia: Overview of legal framework": http://res-legal.eu/en/search-for-countries/slovenia.html

Government of the Republic of Slovenia - Energy, Directorate for Energy: http://www.mg.gov.si/en/areas_of_work/energy/

Renewable energy & energy efficiency partnership, "Policy DB Details: Slovenia": http://www.reeep.org/index.php?id=9353&text=policy-db&special=viewitem&cid=11

Target 119

David Suzuki Foundation, "Who's Meeting their Kyoto Targets?": http://www.davidsuzuki.org/files/climate/cop/Meeting_Kyoto_Targets.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

IPS, "Environment – Spain: Even Further Away From Kyoto": http://ipsnews.net/news.asp?idnews=33001

Target 120

Climate Answers, "Spanish Energy Policies": http://climateanswers.info/2009/08/spanish-energy-policies/

EUROPA, "Spain - Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_es_en.pdf

European Environment Agency, "Share of renewable electricity in gross electricity consumption in EU-27 in 2006 (and 2010 indicative targets): http://dataservice.eea.europa.eu/atlas/viewdata/viewpub.asp?id=4107

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, "Promotion in Spain": http://res-legal.eu/en/search-for-countries/spain/more-about/land/spanien/ueberblick/foerderung.html

International Energy Agency, "Renewable Energy Plan For 2005-2010, Spain": http://www.iea.org/textbase/pm/?mode=weo&action=detail&id=2441

Wikepedia, "Renewable Energy in Spain": http://en.wikipedia.org/wiki/Renewable_energy_in_Spain

Renewable Energy Policy Network for the 21st Century, "Renewables Global Status Report 2009 Update": http://www.unep.fr/shared/docs/publications/RE_GSR_2009_Update.pdf

Renewable Energy World, "Spain: New Plan for Renewable Energy", November, 2005: http://www.renewableenergyworld.com/rea/news/article/2005/11/spain-new-plan-for-renewable-energy-39046

Target 121

Centre for European Reform Policy Brief, "How to meet the EU's 2020 renewables target": http://www.cer.org.uk/pdf/pb_renewables_tindale09.pdf

Climate Answers, "Spanish Energy Policies": http://climateanswers.info/2009/08/spanish-energy-policies/

E&E Publishing, "A cautionary tale about feed-in tariffs", August, 18th, 2009: http://www.eenews.net/public/Greenwire/2009/08/18/1

EurActiv, "20% renewables by 2020: is it possible", February, 20th, 2008: http://www.euractiv.com/en/energy/20-renewables-2020-possible/article-170411

EUROPA, "Spain - Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_es_en.pdf

Ministry of Industry, Tourism and Commerce, Energy: http://www.mityc.es/energia/es-ES/Paginas/index.aspx

Renewable Energy Policy Network for the 21st Century, "Renewables Global Status Report 2009 Update": http://www.unep.fr/shared/docs/publications/RE_GSR_2009_Update.pdf

Wikipedia, "Renewable Energy in Spain": http://en.wikipedia.org/wiki/Renewable_energy_in_Spain

Target 122

Climate Answers, "Spanish Energy Policies": http://climateanswers.info/2009/08/spanish-energy-policies/

Global Wind Energy Council, "Global wind energy markets continue to boom – 2006 another record year": http://www.gwec.net/index.php?id=30&no cache=1&tx ttnews[tt news]=50&tx ttnews[backPid]=4&cHash=7a562a4d4e

Reuters, "Spain wind power firms see steady growth in 2009", February, 2nd, 2009: http://www.reuters.com/article/GCA-BusinessofGreen/idUSTRE51136D20090202

Troy Media, "Heavy subsidies sustain Spain's wind power", March, 29th, 209: http://www.troymedia.com/NewsBeats/Environment_News_Beat/2009/03/TMV032909.htm

Target 123

Climate Progress, "15 EU countries on track to meet Kyoto targets", October, 18th, 2008: http://climateprogress.org/2008/10/18/15-eu-countries-on-track-to-meet-kyoto-targets/

EUROPA, "GHG trends and projections in the Sweden": http://www.eea.europa.eu/themes/climate/ghg-country-profiles/tp-report-country-profiles/sweden-greenhouse-gas-profile-summary-1990-2020.pdf

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

Government Offices of Sweden, "Climate Policy": http://www.sweden.gov.se/sb/d/5745;

The Local, "Sweden's on target for Kyoto commitment", December, 27th, 2005: http://www.thelocal.se/article.php?ID=2753&date=20051227

Target 124

CAN Europe, "Implementation of the Kyoto Protocol": http://www.climnet.org/EUenergy/implementation.htm

Climnet, Swedish Society for Nature Conservation, "40% greenhouse gas reduction up until 2020 – how to do it": http://www.climnet.org/EUenergy/SSNC.pdf

Nordic Energy Solutions, "Sweden's goals for reduction of greenhouse gas emissions": http://www.nordicenergysolutions.org/performance-policy/sweden/swedens-goals-for-reduction-of-greenhouse-gas-emissions

Sweden, "The Swedish Climate Strategy", 2001: http://www.regeringen.se/content/1/c6/02/05/22/bb5baf61.pdf

Target 125

EurActiv, "Sweden seeks to steer EU onto energy-efficient path": http://www.euractiv.com/en/energy-efficiency/sweden-seeks-steer-eu-energy-efficient-path/article-183378

Government Offices of Sweden, "Energy Policy": http://www.sweden.gov.se/sb/d/5745/a/19594

WWF, "Climate Scorecard Sweden":

http://www.wwf.se/source.php/1253677/G8%20Climate%20Scorecards%202009_Sweden.pdf

Swedish Environmental Protection Agency, "Sweden's climate policy": http://www.naturvardsverket.se/en/In-English/Menu/Climate-change/Climate-policy/Swedens-climate-policy/

Sweden Ministry of the Environment, "The Government's climate policy", April, 2008: http://www.sweden.gov.se/content/1/c6/10/33/84/63708a83.pdf

The Bioenergy Site, "Sweden biofuels Annual Report 2009; http://www.thebioenergysite.com/articles/374/sweden-biofuelsannual-report-2009

Target 126

Ecofys, "Renewable Energy Country Profiles":

http://ec.europa.eu/energy/renewables/doc/progress_country_profiles_february_2008_final.pdf

EREC, "Renewable Energy Policy Review, Sweden":

http://www.erec.org/fileadmin/erec_docs/Projcet_Documents/RES2020/SWEDEN_RES_Policy_Review_Final.pdf

Government Offices of Sweden, "Energy Policy": http://www.sweden.gov.se/sb/d/5745/a/19594

Government of Sweden, Ministry of the Environment, "The Government's climate policy", April, 2008: http://www.sweden.gov.se/content/1/c6/10/33/84/63708a83.pdf

Reuters, "Sweden aims for renewable sources for half its energy", March, 2008: http://www.reuters.com/article/environmentNews/idUSL0545046820080305

Tree Hugger, "Sweden Raises the Renewable Energy Bar", January, 2006: http://www.treehugger.com/files/2006/01/sweden raises t.php

Target 127

Business Green, "UK on track to meet Kyoto targets", March, 27th, 2008: http://www.businessgreen.com/businessgreen/news/2212931/uk-track-meet-kyoto-targets

Department for Business Innovation & Skills, "Feed-in Tariffs (FITs)": http://www.berr.gov.uk/energy/sources/renewables/policy/feed-intariffs/page50362.html

Department of Energy and Climate Change: http://www.decc.gov.uk/

Department of Energy and Climate Change, "UK on track to double Kyoto target", June, 5th, 2009: http://www.decc.gov.uk/en/content/cms/news/pn058/pn058.aspx

European Environment Agency, "EU-15 on target for Kyoto, despite mixed performances": http://www.eea.europa.eu/pressroom/newsreleases/eu-15-on-target-for-kyoto-despite-mixed-performances

New Energy World Network, "UK on track to double Kyoto target, according to Department of Energy and Climate Change", June, 8th, 2009: http://www.newenergyworldnetwork.com/alternative-energy-knowledge-bank/uk-on-track-to-double-kyototarget-according-to-department-of-energy-and-climate-change.html

Target 128

Cambridge Econometrics, "UK Energy and the Environment Press Release": http://www.camecon.com/press_releases/uk_energy_environment.htm

Department of Energy and Climate Change, "The UK Low Carbon Transition Plan": http://www.decc.gov.uk/en/content/cms/publications/lc_trans_plan/lc_trans_plan.asp

Environmental Leader, "British taxpayers may pay price for missed emission targets", August, 5th, 2009: http://www.environmentalleader.com/2009/08/05/british-taxpayers-may-pay-price-for-missed-emission-targets/

The Guardian, "Budget 2009: Darling promises 34% emissions cuts with world's first binding carbon budgets", April, 22nd, 2009: http://www.guardian.co.uk/environment/2009/apr/22/carbon-emissions-budget-20091

Renewable Energy Focus, "UK to cut emissions by 34% by 2020 – investing £450 million in renewable and clean energy", July, 15th, 2009: http://www.renewableenergyfocus.com/view/2548/uk-to-cut-emissions-by-34-by-2020-investing-450m-in-renewable-and-clean-energy/

Telegraph, "UK climate change targets 'not tough enough'", March, 18th, 2009: http://www.telegraph.co.uk/earth/environment/globalwarming/5007668/UK-climate-change-targets-not-tough-enough.html

Target 129

Centre for Alternative Technology, "Electricity from renewable sources": http://www.cat.org.uk/information/pdf/ElectricityFromRenewableSources.pdf

Department for Business Enterprise and Regulatory Reform, "Reform of the Renewables Obligation", June, 2008: http://www.berr.gov.uk/files/file46838.pdf

Department for Business Innovation & Skills, "Renewable Energy":

http://www.berr.gov.uk/energy/sources/renewables/index.html

EUROPA, "United Kingdom – Renewable Energy Fact Sheet": http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables_uk_en.pdf

Greenpeace, "The 2007 Energy White Paper – Media Briefing": http://www.greenpeace.org.uk/files/pdfs/climate/energywhitepaper_briefing2.pdf

House of Commons, "Renewable Energy Statistics", August, 28th, 2008: http://www.parliament.uk/commons/lib/research/briefings/snsg-03217.pdf

New Civil Engineer, "England failing to meet renewable energy target for 2010", July, 13th, 2009: http://www.nce.co.uk/news/energy/england-failing-to-meet-renewable-energy-targets-for-2010/5205003.article

Ofgem, "Renewables Obligation":

http://www.ofgem.gov.uk/Sustainability/Environment/RenewablObl/Pages/RenewablObl.aspx

Planning Portal, "Roadmap published for new planning commission": http://www.planningportal.gov.uk/england/professionals/en/1115316535333.html

Renewable Energy Focus, "UK wind industry ready to pump £2.5 billion 'direct into the UK economy". April, 2009: http://www.renewableenergyfocus.com/view/1450/uk-wind-industry-ready-to-pump-25billion-direct-into-uk-economy/

Reuters, "England seen missing renewable target", July, 13th, 2009: http://uk.reuters.com/article/idUKTRE56C26R20090713

Target 130

BWEA, "Green Paper gives amber light to renewables", July, 11th, 2006: http://www.bwea.com/media/news/060711.html

Department of Trade and Industry, "Meeting the Energy Challenge A White Paper on Energy May 2007": http://www.berr.gov.uk/files/file39387.pdf

EUROPA, "United Kingdom – Renewable Energy Fact Sheet": http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables_uk_en.pdf

Green Progress, "UK Government wants 10% Renewable Energy by 2010 and 20% by 2020": http://www.greenprogress.com/alternative_energy_article.php?id=1007

Renewables Advisory Board, "Renewable Electricity Generation": http://www.berr.gov.uk/files/file30091.pdf

Reuters, "England seen missing renewable target", July, 13th, 2009: http://uk.reuters.com/article/idUKTRE56C26R20090713

Target 131

BBC News, "EU climate package explained", January, 21st, 2009: http://news.bbc.co.uk/1/hi/world/europe/7765094.stm

Department for Business Enterprise and Regulatory Reform, "Reform of the Renewables Obligation", June, 2008: http://www.berr.gov.uk/files/file46838.pdf

Department of Energy & Climate Change, "The UK Low Carbon Transition Plan": http://www.decc.gov.uk/en/content/cms/publications/lc_trans_plan/lc_trans_plan.aspx

EurActiv, "Enforcement of EU renewables law faltering", April, 30th, 2008: http://www.euractiv.com/en/energy/enforcement-eu-renewables-law-faltering/article-181863

EUROPA, "United Kingdom - Renewable Energy Fact Sheet":

http://ec.europa.eu/energy/energy_policy/doc/factsheets/renewables/renewables_uk_en.pdf

GreenBag, "UK renewable energy targets unachievable", October, 24th, 2008: http://www.greenbang.com/uk-renewable-energy-targets-unachievable/

The Guardian, "Britain set to miss EU renewable energy target", June, 19th, 2008: http://www.guardian.co.uk/environment/2008/jun/19/renewableenergy.alternativeenergy

Office Journal of the European Union, "Directive 2009/28/EC Of The European Parliament and Of TheCouncil of 23 April 2009": <a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ/dev2.europa.eu/LexUriServ/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.eu/LexUriServ/dev2.europa.europa.eu/LexUriServ/dev2.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europa.europ

Planning Portal, "Roadmap published for new planning commission": http://www.planningportal.gov.uk/england/professionals/en/1115316535333.html

Renewables Advisory Board, "2020 Vision – How the UK can meet its target of 15% renewable energy": http://www.renewables-advisory-board.org.uk/vBulletin/showthread.php?t=136

Renewable Energy World, "UK Renewables Policy", July, 1st, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/07/p-classheaduk-policyp

Target 132

Energy Efficiency News, "UK Government unveils national smart meter roll out plan": http://www.energyefficiencynews.com/i/2079/

Financial Times, "How the UK plans to introduce smart meters": http://blogs.ft.com/energy-source/2009/03/24/how-the-uk-plans-to-inroduce-smart-meters/

The Guardian, "Smart meters in every UK home by 2020", May, 11th, 2009: http://www.guardian.co.uk/environment/2009/may/11/smart-meters-energy-efficiency

Smart Meters, "Another blow for UK smart meter rollout", September, 20th, 2009:

 $\underline{\text{http://www.smartmeters.com/the-news/637-another-blow-for-uk-smart-meter-rollout.html}}$

The Times, "Government's smart-meter estimate falls short by £6 billion, expert claims", May, 18th, 2009: http://business.timesonline.co.uk/tol/business/industry_sectors/utilities/article6308165.ece

Target 133

Business Green, "EU to phase out traditional light bulbs from next week", August, 24th, 2008: http://www.businessgreen.com/business-green/news/2248306/eu-phase-traditional-lightbulbs

EurActiv, "Green VAT proposal scrapped":

http://www.euractiv.com/en/energy-efficiency/green-vat-proposal-scrapped/article-180000

Wikepedia, "Phase-out of incandescent light bulbs": http://en.wikipedia.org/wiki/Phase-out_of_incandescent_light_bulbs

Target 134

Stop Climate Chaos Scotland, "How the Scottish Climate Change Act can make a difference in Copenhagen": http://www.stopclimatechaos.org/files/docs/SCCS-Act-Summary.pdf

The Scottish Government, "Climate Change (Scotland) Act 2009": http://www.scotland.gov.uk/Topics/Environment/climatechange/scotlands-action/climatechangeact

The Scottish Government, "Scottish Climate Change Bill": http://www.scotland.gov.uk/Topics/Environment/climatechange/scotlands-action/ScottishBill

The Scottish Government, "Environment Statistics": http://www.scotland.gov.uk/Topics/Statistics/Browse/Environment

Target 135

Department of Energy and Climate Change, "Scotland has pivotal role' in green economy", July, 15th, 2009: http://nds.coi.gov.uk/clientmicrosite/Content/Detail.aspx?ClientId=416&NewsAreaId=2&ReleaseID=404752&SubjectId=36

Office of Public Sector Information, "The Renewables Obligation (Scotland) Order 2009 SSI/2009/140": http://www.opsi.gov.uk/legislation/scotland/ssi2009/en/ssien_20090140_en.pdf

Scottish Government, "Climate Change Delivery Plan" June, 2009: http://www.scotland.gov.uk/Resource/Doc/276273/0082934.pdf

Scottish Government, "Clean, green energy", June, 17th, 2009: http://www.scotland.gov.uk/News/Releases/2009/06/17112350

Scottish Government, "European Green Energy Centre", August, 17th, 2009: http://www.scotland.gov.uk/News/Releases/2009/08/14104517

Scottish Government, "Renewables Action Plan, Renewable Energy Division", June, 2009: http://www.scotland.gov.uk/Resource/Doc/278424/0083663.pdf

Scottish Government, "Support for wave and tidal energy" September, 19th, 2008: http://www.scotland.gov.uk/News/Releases/2008/09/19111827

Target 136

Friends of the Earth Wales, "Energy route map moves in right direction": http://community.foe.co.uk/cymru/english/press releases/wag energy route map.html

Parliamentary Office of Science and Technology, "Renewable Energy in a Changing Climate", October, 2008:

http://www.parliament.uk/documents/upload/Postpn315.pdf

Welsh Assembly Government, "Chapter 2, Our Vision of a Sustainable Wales": http://wales.gov.uk/docs/desh/publications/090521susdevsdspage1647en.pdf

Welsh Assembly Government, "One Wales: One Planet, a new Sustainable Development Scheme for Wales": http://wales.gov.uk/topics/sustainabledevelopment/publications/onewalesoneplanet/?lang=en

Welsh Assembly Government, "One Wales: One Planet – The Sustainable Development Scheme of the Welsh Assembly Government", May, 2009: http://wales.gov.uk/docs/desh/publications/090522susdevsdspage0115en.pdf

Welsh Assembly Government, "Renewable Energy Route Map for Wales", December, 2008; http://wales.gov.uk/docs/desh/consultation/090123energymapresponseen.pdf

Non-European Union Member States

Target 137

Climate Change News, "Belarus, a riddle, wrapped in an enigma, wrapped in controversy", November, 17th, 2006: http://climatechangenews.blogspot.com/2006/11/belarus-riddle-wrapped-in-enigma.html

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, Climate Technology Initiative, "Perspectives of JI and Green Investment Schemes in Belarus": http://www.jiko-

bmu.de/files/basisinformationen/application/pdf/belarus_green_investment_schemes_grebenkov.pdf

Ministry of Foreign Affairs of The Republic of Belarus, "Belarus Became Full Member of Kyoto Protocol": http://www.mfa.gov.by/en/press/news/2005-11-24-1.html

People Daily, "Why Belarus joins Kyoto Protocol now?", August, 14th, 2005: http://english.peopledaily.com.cn/200508/14/eng20050814_202341.html

United Nations Development Programme, "UNDP welcomes Belarus' decision to accede to Kyoto Protocol": http://un.by/en/undp/news/belarus/15-08-05-01.html

United Nations Framework Convention on Climate Change, "Kyoto Protocol Base Year Data": http://unfccc.int/ghg_data/kp_data_unfccc/base_year_data/items/4354.php

United Nations Framework Convention on Climate Change, "Proposal from Belarus to amend Annex B to the Kyoto Protocol": http://unfccc.int/resource/docs/2006/cmp2/eng/02.pdf

Wikipedia, "List of Kyoto Protocol Signatories": http://en.wikipedia.org/wiki/List_of_Kyoto_Protocol_signatories

Target 138

Agree.net, "Incentives and barriers for the development of renewable energy sources, Croatia: country analysis": http://www.agreenet.info/documents/studie_hr.pdf

Econ Papers, "Feed-in tariff and market electricity price comparison: The case of cogeneration units in Croatia": http://econpapers.repec.org/article/eeeenepol/v_3a37_3ay_3a2009_3ai_3a3_3ap_3a844-849.htm

United Nations, Commission on Sustainable Development, "Croatia, Permanent Mission to The United Nations New York": http://www.un.org/esa/sustdev/csd/csd14/statements/croatia_11may.pdf

UNDP, "Environment and Energy, Climate Change in Croatia: New Human Development Report launched", February, 16th, 2009: http://content.undp.org/go/newsroom/2009/february/climate-change-in-croatia-new-humandevelopment-report-launched.en; jsessionid=a-8LsluLOUQ_?categoryID=349427

Target 139

BBC, "Recession and policies cut carbon", September 21st, 2009: http://news.bbc.co.uk/1/hi/sci/tech/8267475.stm

Bloomberg, "Iceland to join EU's carbon market in 'near future", November, 2008: http://www.bloomberg.com/apps/news?pid=20601072&sid=agCt1f8ZCigs

International Monetary Fund, "Transcript of a Conference Call on the IMF's Exectuive Board Approval of a Stand-By Arrangement for Iceland", November 20th, 2008: http://www.imf.org/external/np/tr/2008/tr081120.htm

Ministry for the Environment, Iceland, "Iceland's Fourth National Communication on Climate Change Under the United Nations Framework Convention on Climate Change and Iceland's Report on Demonstrable Progress under the Kyoto Protocol": http://www.delaus.ec.europa.eu/newzealand/Whats_New/2009/ETS2009.htm

Iceland Ministry of Foreign Affairs and Department of Natural Resources and Environmental Affairs, "Part III. National Reporting Guidelines For CSD-14/15 Thematic Areas": http://www.un.org/esa/agenda21/natlinfo/countr/iceland/energy.pdf

Nordic Energy Solutions, "Iceland's goals for reduction of greenhouse gas emissions": http://www.nordicenergysolutions.org/performance-policy/iceland/iceland-goals-for-reduction-of-greenhouse-gas-emissions

Wikepedia, "Renewable Energy in Iceland": http://en.wikipedia.org/wiki/Renewable_energy_in_Iceland

Target 140

Ministry for the Environment, Iceland, "Iceland's Fourth National Communication on Climate Change Under the United Nations Framework Convention on Climate Change and Iceland's Report on Demonstrable Progress under the Kyoto Protocol": http://www.delaus.ec.europa.eu/newzealand/Whats New/2009/ETS2009.htm

Nordic Energy Solutions, "Iceland's goals for reduction of greenhouse gas emissions": http://www.nordicenergysolutions.org/performance-policy/iceland/iceland-goals-for-reduction-of-greenhouse-gas-emissions

Wikepedia, "Renewable Energy in Iceland": http://en.wikipedia.org/wiki/Renewable_energy_in_Iceland

Target 141

Liechtenstein, "Liechtenstein creates a comprehensive Climate Protection Act", 2007: http://www.liechtenstein.li/en/fl-portal-aktuell?newsid=14916

Mondaq, Environmental & Energy, "Liechtenstein Creates Comprehensive Protection Act Implementation Of Obligations Arising From the Kyoto Protocol": http://www.mondaq.com/article.asp?articleid=47848

Office of Environmental Protection, Liechtenstein, "Liechtenstein's Climate Policy", March, 23rd, 2009: http://www.cdmgoldstandard.org/fileadmin/editors/files/1 communication/presentations-GS-events/2009_Mar_GSAcademy/Policy-trends_H-Kindle_Liechtenstein.pdf

Target 142

United Nations Environment Programme, "Monaco": http://www.unep.org/climateneutral/Default.aspx?tabid=707

Wikipedia, "List of Kyoto Protocol Signatories": http://en.wikipedia.org/wiki/List_of_Kyoto_Protocol_signatories

World Resources Institute, "Kyoto Protocol": http://archive.wri.org/page.cfm?id=1279&z=?

Target 143

New York Times, "A carbon-neutral Norway: Fine print in the plan", March, 20th, 2008: http://www.nytimes.com/2008/03/20/world/europe/20iht-norway.4.11294786.html

Nordic Energy Solutions, "Measures, framework and financing":

http://www.nordicenergysolutions.org/performance-policy/norway/measures-framework-and-financing

Norway Government, "Norwegian Climate Policy: Goals and National Implementation":

 $\frac{\text{http://www.norway.org.mz/NR/rdonlyres/C65D01B2B6F6476A830D3307A5D8E147/121590/NorwegianClimatePolicyGoalsandloord and all molecular transfer of the following the property of the proper$

Target 144

Nordic Energy Solutions, "Measures, framework and financing":

http://www.nordicenergysolutions.org/performance-policy/norway/measures-framework-and-financing

Norwegian Ministry of the Environment, "New measures to reach Norway's ambitious climate targets", June, 2007: http://www.regjeringen.no/en/dep/md/press-centre/Press-releases/2007/new-measures-to-reach-norways-ambitious-html?id=473402

Norwegian Ministry of the Environment, "Norwegian Climate Policy", 2007: http://www.regjeringen.no/pages/2065909/PDFS/STM200620070034000EN_PDFS.pdf

Target 145

ENDS Europe, "Norway to go carbon neutral by 2050", April, 20th, 2007: http://www.endseurope.com/13377

New York Times, "A carbon-neutral Norway: Fine print in the plan", March, 20th, 2008: http://www.nytimes.com/2008/03/20/world/europe/20iht-norway.4.11294786.html

Norwegian Ministry of the Environment, "Norwegian Climate Policy", 2007: http://www.regjeringen.no/pages/2065909/PDFS/STM200620070034000EN_PDFS.pdf

United Nations Framework Convention on Climate Change, "Joint submission by Australia, Belarus, Canada, the European Community and its Member States, Iceland, Japan, New Zealand, Norway, Russia, Switzerland, Ukraine - Information relating to possible quantified emissions limitation and reduction objectives as submitted by parties": http://unfccc.int/files/kyoto_protocol/application/pdf/jointsubmission290409.pdf

Target 146

Energy & Enviro Finland, "Russia steps forward on renewable energy development": http://www.energy-enviro.fi/index.php?PAGE=2406

Peak Energy, "Russia sets renewable-energy mandates": http://peakenergy.blogspot.com/2009/01/russia-sets-renewable-energy-mandates.html

Reuters, "Russia greenhouse gas emissions up 0.3% in 2007", April, 16th, 2009: http://uk.reuters.com/article/idUKLG38200520090416

Wikipedia, "Kyoto Protocol": http://en.wikipedia.org/wiki/Kyoto_Protocol

Target 147

Russian Regional Environment Centre, "Working with Russia on Climate Change: Barriers and Opportunities for Enhancing EU-Russia Dialogue", December, 2008: www.ies.be/files/repo/Michael_Kozeltsev_101208.pdf

United Nations Framework Convention on Climate Change, "Presentation by the Russian Federation at resumed sixth session of the AWG-KP" December, 2008: http://www.ies.be/files/repo/Michael_Kozeltsev_101208.pdf

Target 148

Allianz, "G8 Climate Scorecard - Russia":

http://knowledge.allianz.com/en/globalissues/climate_change/top_climate_stories/g8_climatescorecards_2009_russia.pdf

Cleantech, "Russia sets renewable-energy mandates", January, 21, 2009: http://cleantech.com/news/4079/russia-sets-renewable-energy-mandates

Climate Change Corp, "Carbon Map: Europe":

http://www.climatechangecorp.com/content.asp?ContentID=5837

CMS, "Russia Tax Outlook", June, 2009: http://www.cmslegal.ru/Hubbard.FileSystem/files/Publication/8bf663ed-cad3-4f34-833a-018789491513/Presentation/PublicationAttachment/dea6bdbf-690e-43af-8d88-09dd292003ae/CMS%20Russia%20Tax%20Outlook%20N4%20June%202009.pdf

Peak Energy, "Russia sets renewable energy mandates", January, 2009:

http://peakenergy.blogspot.com/2009/01/russia-sets-renewable-energy-mandates.html

Russia Today, "Russian renewable energy prepares for a bigger slice of the power pie": http://russiatoday.com/Business/2009-08-25/russian-renewable-energy-potential.html

UNECE Steering Committee of the Energy Efficiency 21 Project, "Development of the renewable energy sector in the Russian Federation and in CIS: Prospects for interregional cooperation", 2009:

http://www.unece.org/energy/se/pp/ee21_sc/20scJune09/4_june_morn/3_bradley_renw.pdf

Target 149

Department of the Environment, Transport, Energy and Communications Switzerland, "Switzerland's fourth national communication under the UNFCCC": http://www.bafu.admin.ch/publikationen/publikation/00678/index.html?lang=en

International Emissions Trading Association, "Switzerland to set up ETS from 2008": http://www.ieta.org/ieta/www/pages/index.php?IdSitePage=698

Swiss Info, "CO₂ tax to put Swiss on Kyoto target", June, 28th, 2007:

http://www.swissinfo.ch/eng/specials/climate_change/energy/CO2_tax_to_put_Swiss_on_Kyoto_target.html?siteSect=22064&sid=7972950&cKey=1183046797000&ty=st&rs=yes_

Target 150

Department of the Environment, Transport, Energy and Communications Switzerland , "Action plans for energy efficiency and renewable energy": $\frac{http://www.bfe.admin.ch/themen/00526/02577/index.html?lang=en}{http://www.bfe.admin.ch/themen/00526/02577/index.html?lang=en}$

Swiss Info, "CO₂ tax to put Swiss on Kyoto target", June, 28th, 2007:

 $\underline{\text{http://www.swissinfo.ch/eng/specials/climate_change/energy/CO2_tax_to_put_Swiss_on_Kyoto_target.html?siteSect=22064\&sid=7972950\&cKey=1183046797000\&ty=st&rs=yes$

United Nations Economic Commission for Europe, "Swiss post-Kyoto climate policy": http://www.unece.org/env/lrtap/TaskForce/tfiam/35/tfiam35_Theis_NationalSwitzerland.pdf

Target 151

Energy Matters, "Swiss Adopt aggressive feed-in tariff law for Renewable Energy", July, 10th, 2008:

http://www.energymatters.com.au/index.php?main_page=news_article&article_id=137

International Energy Agency, "Switzerland - Recent Energy Policy Development", March, 2008: http://www.iea.org/Textbase/Papers/Roundtable_SLT/switzerland_mar08.pdf

Renewable Energy Policy Network for the 21st Century, "Introduction of action plan for renewable heat sources to raise share of renewable energy in Total Primary Energy Supply (TPES) from 16.2% to 245 by 2020": http://www.ren21.net/pledges/detail.asp?id=1020

Reuters, "Switzerland launches Greentech Initiative Supporting Sustainable Products and Services", July, 13th, 2009: http://www.reuters.com/article/pressRelease/idUS169787+13-Jul-2009+PRN20090713

Swiss Federal Office of Energy SFOE, "Renewable Energy": http://www.bfe.admin.ch/themen/00490/index.html?lang=en

Target 152

Clean Techies, "Turkey is getting ready to harvest its renewable energy potential", June, 25th, 2009: http://blog.cleantechies.com/2009/06/25/turkey-harvest-renewable-energy-potential/

Renewable Energy Policy Network for the 21st Century, "Renewable energy and energy efficiency targets and regulation – Turkey": http://www.ren21.net/pledges/detail.asp?id=1217

Swiss Turkish Business Council, "Renewable Energy in Turkey", April, 6th, 2009: http://www.stbc.ch/documents/2 Keynote Selahattin Hakman Sabanci STBC Renewables Turkey 090604.pdf

Wikepedia, "Financial incentives for photovoltaics": http://en.wikipedia.org/wiki/Financial_incentives_for_photovoltaics

Wikepedia, "Solar power in Turkey": http://en.wikipedia.org/wiki/Solar_power_in_Turkey

Wind Energy Planning, "Turkey secures US \$600 million for renewable energy projects", May, 31st, 2009: http://www.windenergyplanning.com/turkey-secures-us-600million-for-renewable-energy-projects/

World Future Council Policy Action on Climate Toolkit, "Turkey": http://onlinepact.org/turkey.html

Target 153

Carbon Positive, "Progress report: Kyoto and beyond": http://www.carbonpositive.net/viewarticle.aspx?articleID=609

International Centre for Trade and Sustainable Development "Carbon market prepares for Ukraine deal", June, 12th, 2009: http://ictsd.net/i/news/biores/48726/

Reuters, "Ukraine close to emissions deal with Japan", February, 2009:

http://www.reuters.com/article/GCA-GreenBusiness/idUSTRE51F1UX20090216

United Nations Framework Convention on Climate Change, "Kyoto Protocol to The United Nations Framework Convention on Climate Change", 1998: http://unfccc.int/resource/docs/convkp/kpeng.pdf

United Nations Framework Convention on Climate Change, "The First Communication on Climate Change Ukraine, 1998: http://unfccc.int/resource/docs/natc/ukrnc1.pdf

Latin America

Target 154

Access Library, "Renewable generation in Argentina: past failures and a plan for future success": http://www.accessmylibrary.com/article-1G1-201029462/renewable-generation-argentina-past.html

Entrepreneur, "Renewable generation in Argentina: past failures and a plan for future success", 2009: http://www.entrepreneur.com/tradejournals/article/201029462_11.html

Renewable energy and energy efficiency partnership, "Project in Argentina designs framework for nation's new renewable energy law":http://www.reeep.org/9863.2663/project-in-argentina-designs-framework-for-nation-x27-s-new-renewable-energylaw.htm

Renewable Energy World, "Global Status report: Keeping it clean", April, 2008: http://www.renewableenergyworld.com/rea/news/article/2008/04/global-status-report-keeping-it-clean-52088

Renewable Energy Policy Network for the 21st Century, "Promotion of Renewable Energies in Argentina with the Aim of Achieving 8% of Power Consumption from Renewable Energies": http://www.ren21.net/iap/commitment.asp?id=18

Wikipedia, "Electricity sector in Argentina": http://en.wikipedia.org/wiki/Electricity_sector_in_Argentina

Target 155

Brazilian Wind Energy Centre, "PROINFA Brazil":

http://209.85.135.132/search?q=cache:aG86mykwg_0J:www.sica.int/busqueda/busqueda_archivo.aspx%3FArchivo%3Dpres _3825_1_10112005.pdf+Brazil+pROINFA&cd=1&hl=en&ct=clnk&gl=uk

Energy Information Administration, "Electricity Brazil": http://www.eia.doe.gov/emeu/cabs/Brazil/Electricity.html

Energy Information Administration, "International Energy Outlook 2009": http://www.eia.doe.gov/oiaf/ieo/electricity.html

News China View, "Brazil actively develops green energy": http://news.xinhuanet.com/english/2009-08/09/content_11851132.htm

Renewable Energy Policy Network for the 21st Century, "Renewables Global Status Report: Energy Transformation Continues Despite Economic Slowdown": http://www.ren21.net/globalstatusreport/g2009.asp

Washington International Renewable Energy Conference: http://www.usda.gov/documents/Pledge_Display_Web.pdf

Target 156

Climate Change Corp, "Brazil: New climate plan on shaky ground", October, 15th, 2008: http://www.climatechangecorp.com/content.asp?ContentID=5709

Energy Information Administration, "International Energy Outlook 2009": http://www.eia.doe.gov/oiaf/ieo/electricity.html

Global Wind Energy Council, "Brazil": http://www.gwec.net/index.php?id=118

Penny Sleuth, "Brazil's Hydropower Advantage": http://pennysleuth.com/brazil%E2%80%99s-hydropower-advantage/

Renewable Energy Policy Network for the 21st Century, "Increase renewable energy and implement 10-year plan for energy expansion Brazil": http://www.ren21.net/pledges/detail.asp?id=1096

World Future Council, "Feed-in Tariffs global update 2008": http://www.isep.or.jp/event/080603sympo/Miguel%20Mendonca080603English.pdf

World of Renewables: http://www.worldofrenewables.com/index.php?do=viewarticle&artid=3308

Target 157

BBC News, "70% deforestation cuts for Brazil", December, 2008: http://news.bbc.co.uk/1/hi/sci/tech/7759192.stm

Embassy of Brazil in London, "Legal Amazon: Plan for Action for Conservation": http://www.brazil.org.uk/environment/conservation.html

Greenpeace, "Brazil sets targets to stop deforestation, but is it enough?": http://www.greenpeace.org.uk/blog/forests/brazil-sets-targets-stop-deforestation-it-enough-20081204

Ministerio do Meio Ambiente, "Policies for the Amazon and for Combatting Deforestation": http://www.mma.gov.br/sitio/en/index.php?ido=conteudo.monta&idEstrutura=200&idConteudo=8440&idMenu=9257

Mondaq, "Brazil: Recent Developments In Environmental Law", February, 11th. 2009: http://www.mondag.com/article.asp?articleid=74154

Pesquisa, "Brazil's Targets": http://www.revistapesquisa.fapesp.br/?art=2329&bd=1&pg=1&lg=en

The Guardian, "Brazil announces plan to slash rainforest destruction", December, 2nd, 2008: http://www.guardian.co.uk/environment/2008/dec/02/forests-brazil

Target 158

Amsterdam Conference on the Human Dimensions of Global Environmental Change, "The Brazilian Biodiesel Program": http://www.2007amsterdamconference.org/Downloads/AC2007_Soares.pdf

Biodiesel and Ethanol Investing, "Brazil plans to raise biodiesel blend", April, 2009 http://www.biodieselinvesting.com/biodiesel-archives/2009/04/17/brazil-plans-to-raise-biodiesel-blend/

Brazil-Arab News Agency, "Petroleum agency announces biodiesel auction to meet demand": http://www2.anba.com.br/noticia_petroleoegas.kmf?cod=8742714

Brazilian Center for Business Relationships Accountability, Sustainability & Society, "Sustainable Energy Case Study: The Brazilian Biodiesel Programme (Brazil)":

http://www.brass.cf.ac.uk/uploads/Sus_Community/Case_Study_Bio_Fuels.pdf

Canadian Driver, "Brazil increases biofuel requirement", 2009: http://www.canadiandriver.com/2009/07/01/brazil-increases-biofuel-requirement.htm

Ethanol Producer Magazine, "An overview of Ethanol and Biodiesel Production in Brazil", http://ethanolproducer.com/article.jsp?article_id=2466&q=&page=all

International Energy Agency, "Beyond the OECD - Brazil": http://www.iea.org/Textbase/country/n_country.asp?COUNTRY_CODE=BR

Target 159

Reuters, "Costa Rica aims to win carbon neutral race": http://www.reuters.com/article/environmentNews/idUSN2438974220070526

Tropical Investments, "Costa Rica Carbon Neutral by 2021": http://www.tropicalinvestments.celticfire.net/index.php/costa-rica-carbon-neutral-by-2021/

Wikipedia, "Carbon Neutrality": http://en.wikipedia.org/wiki/Carbon_neutrality

Target 160

Costa Rica Tourism, "Renewable energy in Costa Rica - Why so slow?": http://www.tourism.co.cr/costa-rica-developmentand-services/electricity-in-costa-rica/renewable-energy-in-costa-rica-why-so-slow.html

Environment for Development, "Tariffs for new renewable energy production in Costa Rica": http://www.efdinitiative.org/centers/central-america/news-press/news-archive/2009/tariffs-for-new-renewable-energyproduction-in-costa-rica

Metaefficient, "Costa Rica Is 99% Powered by Renewable Energy", April, 2008: http://www.metaefficient.com/renewable-power/costa-rica-is-99-powered-by-renewable-energy.html

Republic of Costa Rica, "Primera Cumunicacion Nacional, Ante la COnvencion Marco de Las Naciones Unidas Sobre Cambio Climatico": http://unfccc.int/resource/docs/natc/cornc1.pdf

RICE University, "Renewable Energy Trends in Latin America", February, 26th, 2008: http://www.rice.edu/energy/events/past/26feb09Brent%20de%20Jong%20final%20Renewable%20Energy%20-%20AEI Final.pdf

World Bank:

 $\frac{\text{http://web.worldbank.org/external/projects/main?pagePK=64283627\&piPK=73230\&theSitePK=40941\&menuPK=228424\&Projectid=P07642}{\text{ectid}=P07642}$

World Resources Institute, "National Plan for the Expansion of Electricity Generation, Costa Rica": http://projects.wri.org/sd-pams-database/costa-rica/national-plan-expansion-electricity-generation

Target 161

Enerlix, "Jamaica seeking to build energy plants that utilize waste", February, 2009: http://www.enerlix.com/environmental-technology/article_3149.htm

Government of Jamaica, Ministry of Energy & Mining, "National Energy Policy on Schedule for June Completion": http://www.jis.gov.jm/minenergymining/html/20090608t130000-
0500_19956_jis_national_energy_policy_on_schedule_for_june_completion____.asp

Ministry of Energy and Mining Jamaica, "Jamaica's National Energy Policy 2009-2030": http://www.men.gov.jm/PDF_Files/Energy_Policy/Energy_Policy/Energy_Policy/20-%20June%2024,%202009%20-%201.pdf

Target 162

Climate Change Corp, "Latin America special report: Mexico's flimsy raft of climate change measures", August, 2007: http://www.climatechangecorp.com/content.asp?ContentID=4897

Pew Center, Pew Environment Group, "Actions by Key Countries on Climate Change": http://www.pewglobalwarming.org/ourwork/international/bonn/climateaction.pdf

The Guardian, "Mexico leads the way with carbon reduction pledge", December, 2008: http://www.guardian.co.uk/environment/2008/dec/11/poznan-climate-change-mexico-carbon-pledge

Target 163

Colorado Office of Economic Development and Trade, "Renewable Energy in Mexico", June, 2008: http://www.colorado.gov/cs/Satellite?blobcol=urldata&blobheader=application%2Fpdf&blobheadername1=Content-Disposition&blobheadername2=MDT-

Type&blobheadervalue1=inline%3B+filename%3D615%2F890%2FRenewable+Energy+in+Mexico+Report.pdf&blobheadervalue2=abinary%3B+charset%3DUTF-8&blobkey=id&blobtable=MungoBlobs&blobwhere=1191400663505&ssbinary=true

Leonardo Energy, "Renewable Energy in Mexico and Russia", March, 2009: http://www.leonardo-energy.org/renewable-energy-mexico-and-russia

Mexico Secretaría General, "Ley Para El Aprovechamiento De Energias Renovables Y El Financiamiento De La Transicion Energetica": http://www.diputados.gob.mx/LeyesBiblio/pdf/LAERFTE.pdf

North American Institute, "The Current Status of Renewable Energy in Mexico": http://northamericaninstitute.org/files/renewable_huacuz.pdf

Pew Center on Global Climate Change, Pew Environment Group, "Worldwide Action on Global Warming": http://www.pewglobalwarming.org/resources/poznan/3_Worldwide_Action.pdf

Reegle, "Mexico clears way for private sector investment in renewables", February, 2009: http://blog.reegle.info/blog/mexico-clears-way-for-private-sector-investment-in-renewables.htm

Science Daily, "Surprising Green Energy Investment Trends Found Worldwide", June, 2009: http://www.sciencedaily.com/releases/2009/06/090603101400.htm

Wikipedia, "Electricity sector in Mexico": http://en.wikipedia.org/wiki/Electricity_sector_in_Mexico

Target 164

Caribbean Property Magazine, "Discover Nicaragua: Land of incentives and investment": http://www.caribpro.com/Caribbean_Property_Magazine/index.php?pageid=340

Renewable Energy Policy Network for the 21st Century, "Expanding renewable electricity generation to 38% by 2011, improving regulatory framework for renewable energy investments, and promoting biofuels - Nicaragua": http://www.ren21.net/pledges/commitment.asp?id=1333

Renewable Energy Policy Network for 21st Century, "Renewables Global Status Report, 2009 Update", http://www.unep.fr/shared/docs/publications/RE_GSR_2009_Update.pdf

Wikipedia, "Electricity sector in Nicaragua": http://en.wikipedia.org/wiki/Electricity_sector_in_Nicaragua

Target 165

Global Bioenergy, "Recent trends in the law and policy of bioenergy production, promotion and use" September, 2007: http://www.globalbioenergy.org/uploads/media/0709_FAO_legal_paper_online_-

_RECENT_TRENDS_IN_THE_LAW_AND_POLICY_OF_BIOENERGY_PRODUCTION__PROMOTION_AND_USE_01.pdf

R2E2, "Renewable Energy Week in Armenia - An Overview of Policies and Incentives Used Worldwide to Promote Biofuels Programs and Projects", October, 2008:

http://www.r2e2.am/documents/re_week/docs/mpp/review_of_policy_incentives_for_promoting_bio-ethanol.pdf

Renewable Energy Policy Network for the 21st Century, "National biofuels development plan to expand biofuels from 5% to 50% by 2013": http://www.ren21.net/pledges/detail.asp?id=1195

Reuters, "Paraguay sets goal on biofuel exports", March, 2007: http://www.reuters.com/article/LatinAmericanInvestment07/idUSN2125063520070321

The Bioenergy Site, "Paraguay Biofuels annual Report 2007": http://www.thebioenergysite.com/articles/32/paraguay-biofuels-annual-report-2007

USDA Foreign Agricultural Service, "Biofuels Annual", July, 2009: http://gain.fas.usda.gov/Recent%20GAIN%20Publications/BIOFUELS%20ANNUAL_Buenos%20Aires_Paraguay_7-23-2009.pdf

North America - Canada

Target 166

Canada.com, "Canada's greenhouse emissions soaring: UN report", April, 20th, 2009: http://www.canada.com/Business/Canada+greenhouse+emissions+soaring+report/1516154/story.html

The Guardian, "World on track to meet Kyoto targets, says UN climate chief", November, 18th, 2008: http://www.guardian.co.uk/environment/2008/nov/18/greenhousegas-poznan

Wikepedia, "Kyoto Protocol": http://en.wikipedia.org/wiki/Kyoto_Protocol

Target 167

Environment Canada, "Canada's Offset System for Greenhouse Gases": http://www.ec.gc.ca/cc/default.asp?lang=En&n=18BA6889-1

Environment Canada, "Taking Action": http://www.ec.gc.ca/cc/default.asp?lang=En&n=18BA6889-1

Green Car Congress, "Canada Announces a Mandatory 20% cut in Greenhouse Gas Emissions by 2020"m April, 2007:

http://www.greencarcongress.com/2007/04/canada_announce.html

Government of Canada, "Canada's Economic Action Plan": http://www.plandaction.gc.ca/eng/index.asp

Target 168

All Business, "Canada adopts renewable fuels standard", December, 22nd, 2006: http://www.allbusiness.com/operations/shipping/4003348-1.html

Bfuel Canada Corp, "Government Initiatives Support Biofuels", March, 19th, 2007: http://bfuelcanada.com/industry/government-incentives.php

Biodiesel Magazine, "Canada passes renewable fuels standard", July, 1st, 2008: http://www.biodieselmagazine.com/article.isp?article_id=2497

Canadian Renewable Fuels Association: http://www.greenfuels.org/

Canadian Renewable Fuels Association, Media press releases: 2008, "Biofuels are here to stay, so let's get the facts straight", March. 3rd. 2008:

http://www.greenfuels.org/2008.php?id=84a96fe9-4330-102b-b3dc-0030488d2a96

Ethanol Producer Magazine, "CRFA: Canada on target to meet 2010 ethanol mandate", April, 14th, 2009: http://ethanolproducer.com/article.jsp?article_id=5550

Target 169

Government of Alberta, "2008 Greenhouse Gas Emission Reduction Program Results": http://environment.gov.ab.ca/info/library/7894.pdf

McMillan, "Emissions trading and climate change bulletin: Analyzing Alberta's Climate Change and Emissions Management Amendment Act, 2008", December, 2008:

http://www.mcmillan.ca/Upload/Publication/AnalyzingAlbertasClimateChange_1208.pdf

Government of Alberta, "Alberta's 2008 Climate Change Strategy Responsibility/Leadership/Action", January, 2008: http://environment.gov.ab.ca/info/library/7894.pdf

Government of Alberta, "Greenhouse Gas Reduction Program": http://www.environment.alberta.ca/631.html

Government of Alberta, "Canada's Fossil Energy Future - The Way Forward on Carbon Capture and Storage": http://www.energy.alberta.ca/Org/pdfs/Fossil_energy_e.pdf

Target 170

Canadian Wind Energy Association, "Federal Initiatives on Wind Energy": http://www.canwea.ca/images/uploads/File/Fed%20and%20provincial%20initiatives-%20Feb%202009.pdf

Government of Alberta, "Launching Alberta's Energy Future, Provincial Energy Strategy": http://www.energy.gov.ab.ca/Initiatives/1509.asp#production

Pembia, "Greening the grid: Powering Alberta's future with Renewable Energy": http://pubs.pembina.org/reports/greeningthegrid-fs.pdf

Perkins Coie, "Government Financial Incentives to Support Greenhouse Gas Reduction": http://www.perkinscoie.com/news/pubs_detail.aspx?publication=271a10c6-14ea-45af-8b18-a7f44552d652

Target 171

British Columbia Government, "Climate Action Plan", June, 26th, 2008: http://www.livesmartbc.ca/attachments/climateaction_plan_web.pdf

British Columbia, Office of the Premier, News Release, "B.C. Joins Western Climate Action Initiative", April 24th, 2007: http://www2.news.gov.bc.ca/news_releases_2005-2009/2007OTP0053-000509.htm

British Columbia, Office of the Premier, News Release, "Climate Plan Takes BC 73 Percent Towards 2020 Target": http://www2.news.gov.bc.ca/news_releases_2005-2009/2008OTP0168-000997.htm

Now Public, Environment: "British Columbia Industry Paying the Price for Tar Sands", July 28th, 2009: http://www.nowpublic.com/environment/british-columbia-industry-paying-price-tar-sands

Target 172

British Columbia Government, BC Air Quality, "Vehicle Emissions in British Columbia - Statistics": http://www.bcairquality.ca/topics/vehicle-emissions-stats.html

British Columbia Government, Ministry of Environment, Environmental Protection, "Greenhouse Gas Reduction (Vehicle Emissions Standards) Regulation – Intentions Paper for Consultation": http://www.env.gov.bc.ca/epd/codes/vehicle_emissions/index.htm

British Columbia Government, Ministry of the Environment, News Release, "Legislation Introduced to Cut Vehicle Emissions", April, 29th, 2008:

http://www.llbc.leg.bc.ca/public/PubDocs/bcdocs/438404/2008ENV0049-000653.pdf

British Columbia, Office of the Premier Ministry of the Environment, "B.C. Applauds Move By Obama On California Standards", July, 1st, 2009:

http://www2.news.gov.bc.ca/news_releases_2009-2013/2009PREM0010-000063.htm

BC Liberals, "Legislation Introduced to Cut Vehicle Emissions", April, 29th, 2008: http://www.bcliberals.com/?section_id=1343§ion_copy_id=11744

BC Hydro, "Obama's auto emissions standards give Canada what it was seeking", May, 20th, 2009: http://www.bchydro.com/news/articles/conservation/obamas auto emissions standards.html

British Columbia, Office of the Premier, News Release, "Throne Speech Launches B.C. Into Pacific Century", February, 13th 2007: http://www2.news.gov.bc.ca/news_releases_2005-2009/2007OTP0014-000128.htm

British Columbia Government, "The BC Energy Plan: A Vision for Clean Energy Leadership": http://www.energyplan.gov.bc.ca/PDF/BC_Energy_Plan.pdf

The Climate Group, "Top Actions by States, Regions and Provinces – British Columbia": http://www.theclimategroup.org/what we do/states and regions/british_columbia

Target 173

Manitoba, "Beyond Kyoto", April, 21st, 2008: http://www.gov.mb.ca/beyond_kyoto/index.html

Manitoba Vehicle Standards Advisory Board, "Moving Forward - Reducing Greenhouse Gas Emissions from Passenger Vehicles in Manitoba", January, 2009:

http://www.gov.mb.ca/stem/climate/pdf/vsab_report.pdf

Province of Manitoba, News Release, "Manitoba Newest Member of International Climate Change Initiative", June, 12th, 2007: http://news.gov.mb.ca/news/index.html?archive=2007-06-01&item=1777

Target 174

Canadian Wind Energy Association, "Federal/Provincial Initiatives on Wind Energy", updated February, 2009: http://www.canwea.ca/images/uploads/File/Fed%20and%20provincial%20initiatives-%20Feb%202009.pdf

Confederation Power Inc, "The Renewable Energy Industry": http://www.confedpower.com/industry/

Greenjobs, "CANWEA Applauds Manitoba's Announcement of 300 MW Wind RFP", September, 12th, 2006: http://www.greenjobs.com/Public/IndustryNews/inews01145.htm

Global Wind Energy Council, "Global Wind 2005 Report": http://www.gwec.net/uploads/media/Global_WindPower_05_Report.pdf

International Energy Agency, "Wind Power Production Incentive": http://www.iea.org/textbase/pm/?mode=re&action=detail&id=846

Manitoba Government, News Release, "Energy Minister Announces Next Step In Plan To Further Harvest Manitoba's Wind Power Potential", November, 21st, 2005: http://www.gov.mb.ca/chc/press/top/2005/11/2005-11-21-01.html

Moody's: http://v3.moodys.com/page/ataglance.aspx?orgid=496600

Target 175

Confederation Power Inc, "The Renewable Energy Industry": http://www.confedpower.com/industry/

Earth First Canada Inc, "Provincial Support": http://www.earthfirstcanada.com/about-windpower/regulatoryinitiatives/provincial-support

Global Wind Energy Council, "Global Wind 2005 Report": http://www.gwec.net/uploads/media/Global_WindPower_05_Report.pdf

Hatch, "Final Report Nova Scotia Wind Integration Study For Nova Scotia Department of Energy", 2008: http://www.gov.ns.ca/energy/resources/EM/Wind/NS-Wind-Integration-Study-FINAL.pdf

Moody's: http://v3.moodys.com/page/ataglance.aspx?orgid=496600

Nova Scotia Department of Energy, "Regulations Respecting Renewable Energy Standards made under Section 5 of Chapter 25 of the Acts of 2004, the Electricity Act": http://www.gov.ns.ca/energy/resources/EM/renewable/Renewable-Energy-Standard-Regulations.pdf

Nova Scotia Department of Energy, "Toward a Greener Future, Nova Scotia's 2009 Energy Strategy", January, 2009: http://www.gov.ns.ca/energy/resources/spps/energy-strategy/Energy-Strategy-2009.pdf

Nova Scotia Government, "Renewable Energy Standard Regulations made under Section5 of the Electricity Act": http://www.gov.ns.ca/just/regulations/regs/erenew.htm

Renewable Energy World, "Ontario Unveils Green Energy and Green Economy Act, 2009", February, 25th, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/02/ontario-unveils-green-energy-and-green-economy-act-2009

Target 176

CBC News Canada, "Ontario unveils greenhouse gas targets", June, 18th, 2007: http://www.cbc.ca/canada/ottawa/story/2007/06/18/greenhouse-070618.html

Ontario Government, "Ontario's Climate Change Action Plan 2008 Creating our Sustainable Future", December, 2008: http://www.ene.gov.on.ca/publications/6874e.pdf

Target 177

Clean Air Alliance, "Ontario's Coal Phase-Out – A major climate accomplishment within our grasp", February, 2009: http://www.cleanairalliance.org/files/active/0/coalprogress-final.pdf

Davis LLP, Climate Change Law Practice Group Blog, "IESO: Ontario still on track to phase out coal": http://www.davis.ca/en/blog/Climate-Change-Law-Practice-Group/2009/01/06/IESO-Ontario-still-on-track-to-phase-out-coal

Earth First Canada Inc, "Provincial Support": http://www.earthfirstcanada.com/about-windpower/regulatoryinitiatives/provincial-support

Moody's: http://v3.moodys.com/page/ataglance.aspx?orgid=496600

Ontario Government, "Go Green, Ontario's Action Plan On Climate Change": http://www.ene.gov.on.ca/publications/6445e.pdf

Ontario Government, "Ontario's Bold New Plan for a Green Economy": http://www.news.ontario.ca/mei/en/2009/02/ontariosbold-new-plan-for-a-green-economy.html

The Climate Group, Top Actions by States, Regions and Provinces, "Ontario": http://www.theclimategroup.org/what_we_do/states_and_regions/ontario

Target 178

Canadian Wind Energy Association, "CanWEA aplauds new processes to procure wind energy in Quebec and revised pricing for community and First Nations wind energy projects", January, 5th, 2009: http://www.canwea.ca/media/release/release_e.php?newsId=58

Canadian Wind Energy Association, "Wind energy ready to answer to hydro's call for power": http://www.canwea.ca/media/release/release_e.php?newsId=26

Confederation Power Inc, "The Renewable Energy Industry": http://www.confedpower.com/industry/

Earth First Canada Inc, "Provincial Support": http://www.earthfirstcanada.com/about-windpower/regulatoryinitiatives/provincial-support

Global Wind Energy Council, "Global Wind 2005 Report": http://www.gwec.net/uploads/media/Global_WindPower_05_Report.pdf

Hydro Quebec, "Strategic Plan 2006-2010", September, 15th, 2006: http://www.hydroquebec.com/publications/en/strategic_plan/pdf/plan-strategique-2006-2010.pdf

Moody's: http://v3.moodys.com/page/ataglance.aspx?orgid=496600

Regie de l'energie Quebec, "An update on recent developments in la belle Province and Canada, plus matters before the Regie", May, 2009: http://www.necpuc.org/ppt/Carrier2009.pdf

Resources Naturelles et Faune Quebec, "Energy Strategy": http://www.mrnf.gouv.qc.ca/english/energy/strategy/

Resources Naturelles et Faune Quebec, "Wind energy potential in Quebec": http://www.mrnf.gouv.qc.ca/english/energy/wind/wind-potential.jsp

Resources Naturelles et Faune Quebec, "Wind energy projects in Quebec": http://www.mrnf.gouv.qc.ca/english/energy/wind/wind-projects.jsp

North America - United States

Target 179

US Environmental Protection Agency, "EPA Analysis of the Waxman-Markey Discussion Draft: The American Clean Energy and Security Act of 2009, Executive Summary", April, 20th, 2009:

http://www.epa.gov/climatechange/economics/pdfs/WaxmanMarkeyExecutiveSummary.pdf

World Resources Institute, "Emission Reductions Under The Waxman-Markey Discussion Draft", April, 22nd, 2009: http://pdf.wri.org/usclimatetargets_2009-04-22.pdf

US Congress House Resolution 2454, July, 2009:

http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h2454pcs.txt.pdf

Target 180

Carbon Tax Center, Pricing Carbon efficiently and equitably: http://www.carbontax.org/blogarchives/2007/04/26/rep-stark-introduces-carbon-tax-bill/

Federal Carbon Tax.org: http://www.federalcarbontax.org/Legislation.html

Govtrack.US, "H'R.594: Save Our Climate Act of 2009": http://www.govtrack.us/congress/bill.xpd?bill=h111-594&tab=summary

Online Office of Congressman Pete Stark, "Statement on Introduction of HR.594, the Save Our Climate Act", January, 14th, 2009: http://www.stark.house.gov/index2.php?option=com_content&do_pdf=1&id=1168

Organic Consumers Association, "Earth Equity News," January, 25th, 2009: http://www.organicconsumers.org/articles/article_16611.cfm

Target 181

American Coalition for Ethanol: http://www.ethanol.org/index.php?id=78&parentid=26

Bioenergy Business, "US biodiesel tax credits approved at last", October, 8th, 2008: http://www.bioenergy-business.com/index.cfm?section=americas&action=view&id=11601

Congress of the United States Congressional Budget Office, "The Impact of Ethanol Use on Food Prices and Greenhouse-Gas Emissions", April, 2009: http://www.cbo.gov/ftpdocs/100xx/doc10057/04-08-Ethanol.pdf

Crystal Flash Energy, "Overview of the Renewable Fuels Standard": http://www.glrea.org/events/MichiganEnergyFair2009/pdf/The.pdf

US Department of Energy, Biomass Program: http://www1.eere.energy.gov/biomass/budget.html

US Environmental Protection Agency. "EPA proposed new regulations for the national renewable fuel standard program for 2010 and beyond": http://www.epa.gov/oms/renewablefuels/420f09023.htm

US Environmental Protection Agency, "Notice of Upcoming Joint Rulemaking to Establish Vehicle GHG CAFE Standards": http://www.epa.gov/EPA-AIR/2009/May/Day-22/a12009.htm

Wikepedia, "Biofuels in the United States": http://en.wikipedia.org/wiki/Biofuel_in_the_United_States

Worldwatch Institute, "How will the US Produce 36 billion gallons of biofuel by 2022?", February, 4th, 2008: http://www.worldwatch.org/node/5600

Target 182

US Environmental Protection Agency, "EPA Analysis of the Waxman-Markey Discussion Draft: The American Clean Energy and Security Act of 2009, Executive Summary", April, 20th, 2009: http://www.epa.gov/climatechange/economics/pdfs/WaxmanMarkeyExecutiveSummary.pdf

US Congress, HR 2454, July, 2009: http://frwebgate.access.gpo.gov/cgi-

bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h2454pcs.txt.pdf

Target 183

Climate Change Corp, "Auto Industry Bailouts: Red ink on green policies", February, 16th, 2009: http://www.climatechangecorp.com/content.asp?ContentID=5967

Green Car Congress, "Obama Announces New National Fuel Policy; Two Harmonized Standards, with Fleet Average of 35.5 mpg, 250 gCO₂/mile by 2016", May, 19th, 2009: http://www.greencarcongress.com/2009/05/obama-announces-new-nationalfuel-policy-two-harmonized-standards-with-fleet-average-of-355-mpg-250-.html

Mother Earth News, "Obama Announces Comprehensive National Fuel Economy Policy", May, 20th, 2009: http://www.motherearthnews.com/Green-Transportation/National-Fuel-Economy-Policy.aspx

The Guardian, "Obama sets strict limits on car exhaust emissions", May, 20th, 2009: http://www.guardian.co.uk/world/2009/may/19/obama-carbon-emissions-auto-industry

US Congress, "H.R. 2454":

http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h2454pcs.txt.pdf

US Environmental Protection Agency, "Notice of Upcoming Joint Rulemaking to Establish Vehicle GHG Emissions and CAFE Standards":

http://www.epa.gov/EPA-AIR/2009/May/Day-22/a12009.htm

Wall Street Journal, "Bush Approves Loans for Auto Makers", October, 1st, 2008: http://online.wsj.com/article/SB122281787423492359.html

Washington Post, "Grants Steered to Green Car Research", August, 6th, 2009: http://www.washingtonpost.com/wp-dyn/content/article/2009/08/05/AR2009080500905.html;

White House, Office of the Press Secretary, "President Obama Announces National Fuel Efficiency Policy", May, 19th, 2009: http://www.whitehouse.gov/the_press_office/President-Obama-Announces-National-Fuel-Efficiency-Policy/

Wikepedia, "Corporate Average Fuel Economy": http://en.wikipedia.org/wiki/Corporate_Average_Fuel_Economy

Target 184

Connecticut Department of Environmental Protection, "Regional Greenhouse Gas Initiative": http://www.ct.gov/dep/cwp/view.asp?a=2684&q=332278&depNav_GID=1619

House Resolution 06-R 250, "House Resolution Promoting Goals to Reduce Global Warming Pollution From the Region's Electricity Sector", May, 10th, 2006: http://www.rilin.state.ri.us/publiclaws/law06/res06/res06250.htm

New Hampshire Department of Environmental Services, "Regional Greenhouse Gas Initiative": http://des.nh.gov/organization/divisions/air/tsb/tps/climate/rggi/index.htm

New York Department of Environmental Conservation, "regional Greenhouse Gas Initiative": http://www.dec.ny.gov/energy/rggi.html

Regional Greenhouse Gas Initiative: http://www.rggi.org/about

Regional Greenhouse Gas Initiative, "The Regional Greenhouse Gas Initiative (RGGI) Is...": http://www.rggi.org/docs/RGGI_Executive_Summary.pdf

State of Delaware, Division of Air and Waste Management, "Regulation No 1147 Regional Greenhouse Gas Initiative to Address Carbon Dioxide Emissions from Electric Generating Units": http://www.awm.delaware.gov/Info/Regs/Pages/RGGI.aspx

State of New Jersey Office of The Governor, "US Senate Committee on Environmental and Public Works State, Regional and Local Perspectives on Global Warming Full Committee Hearing", March, 1st, 2007: http://www.nj.gov/globalwarming/home/documents/pdf/070301 chromium.pdf

Target 185

Department of Ecology State of Washington, "WCI Establishes Regional Greenhouse Gas Emissions Reduction Goal", August, 22nd, 2007: http://www.ecy.wa.gov/news/2007news/2007-245.html

Environment Arizona, "New hope for global warming solutions": http://www.environmentarizona.org/newsletters/winter08

Oregon Department of Energy, "Oregon Climate Action Chronology From the Carbon Standard to WCI", March 17th, 2008: http://egov.oregon.gov/ENERGY/GBLWRM/GWC/docs/Oregon_Action_ClimateChange_Overview_March16_2008.pdf

Oregon Department of Energy, "Renewable Energy Action Plan: Update on Goals", January 9th, 2009: http://oregon.gov/ENERGY/RENEW/REWG/docs/REAP_Goals.pdf

Oregon Environmental Council, "The Western Climate Initiative": http://www.oeconline.org/our-work/climate/global-warming-policy-solutions/the-western-climate-initiative

Pew Center on Global Climate Change, "Western Climate Initiative Releases Final Design Recommendations": http://www.pewclimate.org/node/6177

Sustainable Business.com, "Ontario Joins WCI", July, 21st, 2008: http://www.sustainablebusiness.com/index.cfm/go/news.display/id/16439

US Environmental Protection Agency, "Climate Change – State and Local Governments, California": http://www.epa.gov/climatechange/wycd/stateandlocalgov/states/mt.html

Utah Government, "Utah's Greenhouse Gas Goal": http://www.deq.utah.gov/Climate_Change/GHG_goal.htm

Western Climate Initiative: http://www.westernclimateinitiative.org/

Western Climate Initiative, "The WCI Cap & Trade Program": http://www.westernclimateinitiative.org/the-wci-cap-and-trade-program

Target 186

Arizona Climate Action Initiative: http://www.azclimatechange.gov/

Arizona Climate Action Initiative, "Arizona's Climate Action Plan": http://eport2.cgc.maricopa.edu/published/p/us/pushpa/document/3/index.ppt

Arizona Department of Commerce Energy Office, "American Recovery and Reinvestment Act of 2009 State Energy Program", May, 12th, 2009: http://az.gov/recovery/assets/docs/SEPSubApp09.pdf

Arizona Government, Environmental News, "Arizona receives economic recovery funding from US EPA to reduce diesel emissions, create jobs", April, 9th, 2009: http://az.gov/recovery/assets/docs/ARRADERAAZFinal.pdf

DSIRE, Database of State Incentives for Renewable & Efficiency, "Arizona": http://www.dsireusa.org/incentives/index.cfm?state=AZ

Environment Arizona, "New hope for global warming solutions": http://www.environmentarizona.org/newsletters/winter08

State of Arizona, Office of the Governor, "Arizona among first states to receive stimulus funds for weatherization program", June, 8th, 2009:

http://www.azgovernor.gov/dms/upload/NR_060809_WEATHERIZATION%20ANNOUNCEMENT%20Revision.pdf

Target 187

Alliance to Save Energy, "Stimulus Guidance Summary - SEP": http://apps1.eere.energy.gov/wip/pdfs/sep_arra_foa.pdf

Arizona Department of Environmental Quality, Climate Change Action Plan: http://azgovernor.gov/dms/upload/Climate_Change_Action_Plan_final-web.pdf

DSIRE, Database of State Incentives for Renewables & Efficiency, "Arizona": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=AZ03R&re=1&ee=1

Energy Information Admnistratio, "Arizona Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/arizona.html

Lawrence Berkeley National Laboratory, Energy Analysis Department, "Renewables Portfolio Standards in the United States: A Status Report with Data Through 2007", April, 2008: http://eetd.lbl.gov/ea/ems/reports/lbnl-154e-ppt.pdf

Pew Center for Global Climate Change, "Arizona RPS": http://www.pewclimate.org/node/4659

Union of Concerted Scientists, "Arizona Renewable Energy Standard Summary": http://www.ucsusa.org/assets/documents/clean_energy/arizona.pdf

Target 188

California Air Resources Board, "Assembly Bill 32: Global Warming Solutions Act": http://www.arb.ca.gov/cc/ab32/ab32.htm

California, "Climate Action Team Biennial Report", March, 2009: http://www.energy.ca.gov/2009publications/CAT-1000-2009-003/CAT-1000-2009-003-D.PDF

California Climate Change Portal: http://www.climatechange.ca.gov/policies/index.html

California, "State Agency Greenhouse Gas Reduction Report Card": http://www.climatechange.ca.gov/policies/CALEPA-1000-2008-006.PDF

California Green Solutions, "AB 32 Implementation Schedule": http://www.californiagreensolutions.com/cgi-bin/gt/tpl.h,content=1142

DSIRE, Database of State Incentives for Renewable & Efficiency, "California": http://www.dsireusa.org/incentives/index.cfm?state=CA

Environmental Protection Agency, Climate Change – State and Local Governments, "California": http://epa.gov/climatechange/wycd/stateandlocalgov/states/ca.html

Public Utilities Commission State of California, "Challenges of Meeting the 33% by 2020 RPS Goal", September, 26th, 2008: https://eng.ucmerced.edu/sett/presentations-1/1-Meeting%20RPS%20Goal%20CPUC.pdf

Pew Center on Global Climate Change, "Regional Initiatives": http://www.pewclimate.org/what_s_being_done/in_the_states/regional_initiatives.cfm

Target 189

Breakthrough Institute, "Is California's Renewable Energy Mandate Destined for Failure?: http://www.thebreakthrough.org/blog/2008/08/is californias rps destined for failure.shtml

California Energy Commission, Docket 03-RPS-1078, October, 4th, 2008:

http://www.energy.ca.gov/portfolio/documents/2008-10-

 $\underline{\textbf{01} \ workshop/comments/TN\%2048399\%20\&\%2048400\%20Comments\%20from\%20T.\%20Faust\%20Re\%20October\%20Workshop.pdf}$

California Public Utilities Commission, "33% Renewables Portfolio Standard Implementation Analysis Preliminary Results", June, 2009: http://www.cpuc.ca.gov/NR/rdonlyres/B123F7A9-17BD-461E-AC34-973B906CAE8E/0/ExecutiveSummary33percentRPSImplementationAnalysis.pdf

California Public Utilities Commission, "Feed-In Tariffs Available for the Purchase of Eligible Small Renewable Generation": http://www.cpuc.ca.gov/PUC/energy/Renewables/hot/

California Public Utilities Commission, "August 2009 Semi-Annual Compliance Report Pursuant To The California Renewables Portfolio Standard": http://www.cpuc.ca.gov/NR/rdonlyres/0D692781-0A0C-4892-89A1-0E46287E928C/0/Final_IOU_August_2009_RPS_Compliance_Report_template.xls

California Public Utilities Commission, "Renewables Portfolio Standard Quarterly Report Q1 2009": http://www.cpuc.ca.gov/NR/rdonlyres/3AB3B7C0-DBA1-426C-AA26-88EF69470DC9/0/CPUC01367802v1RPS_Rpt_to_Legislature__Q1_2009.pdf

DSIRE, Database of State Incentives for Renewables & Efficiency, "California": http://www.dsireusa.org/incentives/incentive.cfm?Incentive Code=CA25R&state=CA&CurrentPageID=1

New York Times, "Coffers Empty, California Pays With I.O.U's", July, 2nd, 2009: http://www.nytimes.com/2009/07/03/us/03calif.html

The California Energy Commission: http://www.energy.ca.gov/renewables/index.html

Target 190

California Public Utilities Commission, "33% Renewables Portfolio Standard Implementation Analysis Preliminary Results", June, 2009: http://www.cpuc.ca.gov/NR/rdonlyres/B123F7A9-17BD-461E-AC34-973B906CAE8E/0/ExecutiveSummary33percentRPSImplementationAnalysis.pdf

California Public Utilities Commission, "Feed-In Tariffs Available for the Purchase of Eligible Small Renewable Generation": http://www.cpuc.ca.gov/PUC/energy/Renewables/hot/

California Public Utilities Commission, "August 2009 Semi-Annual Compliance Report Pursuant To The California Renewables Portfolio Standard": http://www.cpuc.ca.gov/NR/rdonlyres/0D692781-0A0C-4892-89A1-0E46287E928C/0/Final_IOU_August_2009_RPS_Compliance_Report_template.xls

Clean Power.org, "Plug Is Pulled on Delta Coal Plant", July, 9th, 2009: http://www.cleanpower.org/section_02/vjwblog.html

The California Energy Commission: http://www.energy.ca.gov/renewables/index.html

The Guardian, "California utilities ordered to use 33% renewable energy standard", November, 18th, 2008: http://www.guardian.co.uk/environment/2008/nov/18/california-renewable-energy-schwarzenegger-environment

Target 191

California, "Bill AB1109 Analysis":

http://info.sen.ca.gov/pub/07-08/bill/asm/ab_1101-1150/ab_1109_cfa_20070423_151309_asm_comm.html

California Chronicle, "Assembly Member Jared Huffman on Proposed California and National Lighting Efficiency Legislation", March, 14th, 2007: http://www.californiachronicle.com/articles/view/22155

California Climate Change Portal:

http://www.climatechange.ca.gov/publications/legislation/ab_1109_bill_20071012_chaptered.pdf

California Energy Commission, "2008 Appliance Efficiency Rulemaking", August, 2008: http://www.energy.ca.gov/2008publications/CEC-400-2008-023/CEC-400-2008-023.PDF

Department of Toxic Substances Control, "AB 1109: Lighting Task Force Report": September, 1st, 2008: http://www.dtsc.ca.gov/HazardousWaste/UniversalWaste/upload/ab1109_final.pdf

Good to be Green, "California Loan programs for Energy Efficiency": http://www.goodtobegreen.com/ca_energy_programloans.aspx

New York Times, "Coffers Empty, California Pays with IOU's", July, 2nd, 2009: http://www.nytimes.com/2009/07/03/us/03calif.html

State of California – The Natural Resources Agency, "Docket No 09-IEP-1F, June 9th, 2009: http://www.energy.ca.gov/2009_energypolicy/notices/2009-06-09_workshop_notice.html

Wikepedia, "Phase-out of incandescent light bulbs": http://en.wikipedia.org/wiki/Banning_of_incandescent_lightbulbs

Target 192

Colorado, "Before the Public Utilities Commission of the State of Colorado": http://www.dora.state.co.us/puc/DocketsDecisions/decisions/2008/C08-0559_07A-462E.doc

Colorado, "Governor's Energy Office Strategic Goals and Objectives for the American Recovery and Reinvestment act funding of the State Energy Program":

http://www.colorado.gov/energy/images/uploads/pdfs/GEO_ARRA_Program_Goals_and_Objectives.pdf

Colorado, "House Bill 07-1037":

http://www.colorado.gov/energy/images/uploads/pdfs/GasElecDSMHB1037aspassedbySenate.pdf

Colorado Renewable Energy Society, "Minimum Clean Energy Requirement": http://www.cres-energy.org/documents/Clean%20Energy%20Brochure%20Feb2002.pdf

 ${\tt DSIRE, Database \ of \ State \ Incentives \ for \ Renewables \ \& \ Efficiency, \ ``Colorado'': \ \underline{\tt http://www.dsireusa.org/incentives/incentive_Code=CO24R}$

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

State of Colorado, Governor's Energy Office, "Renewable Energy": www.colorado.gov/energy/index.php?/renewable/

Target 193

Connecticut, "Connecticut Climate Change Action Plan 2005, Executive Summary": http://www.ctclimatechange.com/documents/ExecutiveSummary_CCCAP_2005_001.pdf

Connecticut, Department of Environmental Protection, "Climate Change": http://www.ct.gov/dep/cwp/view.asp?a=2684&q=322070&depNav_GID=1619

Connecticut, Department of Environmental Protection, "Connecticut Making Progress Reducing Greenhouse Gas Emissions, Says Governor's Steering Committee on Climate Change" February, 15th, 2006: http://www.ct.gov/dep/cwp/view.asp?A=2712&Q=324632

Connecticut, Department of Environmental Protection, "Connecticut Making Progress Reducing Greenhouse Gas Emissions, Says Governor's Steering Committee on Climate Change" February, 15th, 2006:

http://www.ct.gov/dep/cwp/view.asp?A=2712&Q=324632

DSIRE, Database of State Incentives for Renewable & Efficiency, "Connecticut": http://www.dsireusa.org/incentives/index.cfm?State=CT

Pew Center on Global Climate Change, "Connecticut Enacts Greenhouse Gas Emissions Targets": http://www.pewclimate.org/node/5964

Regional Greenhouse Gas Initiative, "About": http://www.rggi.org/about

State Environmental Resource Center. "Issue: Greenhouse Gas Reporting & Reduction Strategies": http://www.serconline.org/ghg/stateactivity.html

Target 194

Connecticut Government, Department of Environmental Protection, "Climate Change": http://www.ct.gov/dep/cwp/view.asp?a=2684&q=322070&depNav_GID=1619

Connecticut Government, Department of Environmental Protection, "Connecticut Making Progress Reducing Greenhouse Gas Emissions, Says Governor's Steering Committee on Climate Change" February, 15th, 2006: http://www.ct.gov/dep/cwp/view.asp?A=2712&Q=324632

DSIRE, Database of State Incentives for Renewable & Efficiency, "Connecticut": http://www.dsireusa.org/incentives/index.cfm?State=CT

Regional Greenhouse Gas Initiative: http://www.rggi.org/about

Target 195

Clean Energy States Alliance, "Progress Report, Review of State Renewable Portfolio Standard Programs in the Northeast & Mid-Atlantic Regions":

http://www.cleanenergystates.org/Publications/CESA Progress Report Porter NE-MA_Regional RPS_Dec2008.pdf

Connecticut Clean Energy Fund: http://www.ctcleanenergy.com/CleanEnergyIncentives/tabid/57/Default.aspx

Connecticut Climate Change, "2005 CT Climate Change Action Plan":

http://www.ctclimatechange.com/StateActionPlan.html

Connecticut Department of Public Utility Control, "Connecticut Renewable portfolio Standards Overview": http://www.ct.gov/dpuc/cwp/view.asp?a=3354&q=415186

DSIRE, Database of State Incentives for Renewables & Efficiency, "Connecticut":

http://www.dsireusa.org/incentives/index.cfm?State=CT

Energy Information Administration, "Renewable Market Share of Net Generation by State":

http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Energy Information Administration, "Connecticut Renewable Energy Profile":

http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/connecticut.html

Target 196

Delaware State Senate, 144th General Assembly, "Senate Bill No.263": http://www.votesmart.org/billtext/19746.pdf

DSIRE, Database of State Incentives for Renewable & Efficiency, "Delaware":

http://www.dsireusa.org/incentives/index.cfm?State=DE

Regional Greenhouse Gas Initiative: http://www.rggi.org/about

amfortheRegionalGreenhouseGasInitiativeApproved;.aspx

State of Delaware, "Delaware expecting almost \$3 million from fourth RGGI auction", June, 19th, 2009: http://www.dnrec.delaware.gov/News/Pages/DelawareExpectingAlmost\$3MFromFourthRGGIAuction.aspx

State of Delaware, "Delaware's Regulation Governing Carbon Dioxide Budget Trading Program for the Regional Greenhouse Gas Initiative Approved, Delaware Poised to Participate in December 2008 Auction" October, 25th, 2008: http://www.dnrec.delaware.gov/News/Pages/Delaware%E2%80%99sRegulationGoverningCarbonDioxideBudgetTradingProgr

Target 197

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

DSIRE, Database of State Incentives for Renewables & Efficiency, "Delaware": http://www.dsireusa.org/incentives/incentive_cfm?Incentive_Code=DE06R&state=DE&CurrentPageID=1

State of Delaware, Delaware Energy Office: http://www.dnrec.delaware.gov/energy/Pages/default.aspx

Energy Information Administration, "Delaware Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/delaware.html

Target 198

DSIRE, Database of State Incentives for Renewable & Efficiency, "Florida": http://www.dsireusa.org/incentives/index.cfm?State=FL

Pew Center on Global Climate Change, "Florida Emissions Target": http://www.pewclimate.org/node/4571

Florida Planning Toolbox, "Climate Change Tools": http://www.cuesfau.org/toolbox/chapter.asp?chapterid=3

State Department of Florida, "Florida's Energy & Climate Change Action Plan", October, 15th, 2008: http://www.dep.state.fl.us/climatechange/files/action_plan/intro.pdf

State Department of Florida, "History and Status of State Actions": http://www.dep.state.fl.us/ClimateChange/files/action_plan/history.pdf

Florida Department of Environmental Protection, "Florida Department of Environmental Protection Joins California Emissions Lawsuit", February, 4th, 2008: http://www.dep.state.fl.us/secretary/news/2008/02/0204_02.htm

Target 199

DSIRE, Database of State Incentives for Renewable & Efficiency, "Hawaii": http://www.dsireusa.org/incentives/index.cfm?State=HI

Hawaii, "House Bill No 1464": http://www.capitol.hawaii.gov/session2009/bills/HB1464_CD1_.HTM

Hawaii, "House Bill 226": http://actrees.org/files/Policy_Alerts/HB226%20CD1.pdf

State of Hawaii Department of Business, Economic Development and Tourism, "Greenhouse Gas":

http://hawaii.gov/dbedt/info/energy/greenhouse/

Target 200

BioCycle, "Feed-in Tariffs strengthen markets for biogas power": http://www.jgpress.com/archives/_free/001904.html

DSIRE, Database of State Incentives for Renewables & Efficiency, "Hawaii": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=HI06R&re=1&ee=1

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Ethanol Producer Magazine, "Hawaii utility co-op to buy ethanol producer's power", December, 30th, 2008: http://www.ethanolproducer.com/article.jsp?article_id=5208

FIT-Hawaii.com, "Hawaii Clean Energy Initiative": http://www.fit-hawaii.com/?Hawaii Clean Energy Initiative

Hawaii, House Bill No 1464: http://www.capitol.hawaii.gov/session2009/bills/HB1464_CD1_.htm

Renewable Energy World, "Hawaii takes bold renewable energy initiatives", November, 10th, 2008: http://www.renewableenergyworld.com/rea/news/article/2008/11/hawaii-takes-bold-renewable-energy-initiatives-54036

US Department of Energy, "States with Renewable Portfolio Standards": http://apps1.eere.energy.gov/states/maps/renewable_portfolio_states.cfm

Wind Works, "Hawaii Moves Toward Feed-In Tariffs by Mid-Summer 2009", January, 6th, 2009: http://www.wind-works.org/FeedLaws/USA/HawaiiMovesTowardFeed-inTariffsbyMid-Summer2009.html

Target 201

DSIRE, Database of State Incentives for Renewable & Efficiency, "Illinois": http://www.dsireusa.org/incentives/index.cfm?State=IL

Illinois Government News Network, "Governor Blagojevich sets goal to dramatically reduce greenhouse gas emissions in Illinois", February, 13th, 2007:

http://illinois.gov/PressReleases/ShowPressRelease.cfm?SubjectID=2&RecNum=5715

Illinois Government News Network, "Governor Blagojevich signs Midwestern Regional Greenhouse Gas Reduction Accord", November, 15th, 2007: https://www.illinois.gov/PressReleases/ShowPressRelease.cfm?SubjectID=1&RecNum=6424

Environmental Protection Agency, News Release, "EPA's Illinois Green Power Partners cut greenhouse gas emissions", February, 9th, 2009: http://yosemite.epa.gov/opa/admpress.nsf/0/873CE349A5FAA2C28525755800554D6E

Target 202

Energy Information Administration, "State Renewable Electricity Profiles", June, 2009: http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/rspt02il.xls

Illinois, "Public Act -95-1027": http://www.ilga.gov/legislation/publicacts/95/095-1027.htm

Pew Center on Global Climate Change, "Illinois Governor Signs Legislation to Reduce Emissions from Coal Power Plants": http://www.pewclimate.org/node/6363

Pew Center on Global Climate Change, "Coal Initiative Reports – A Performance Standards Approach to Reducing CO2 Emissions from Electric Power Plants", June, 2009:

http://www.pewclimate.org/docUploads/Coal-Initiative-Series-Rubin.pdf

Reuters, "US reviews nation's first clean coal power project", June, 12th, 2009:

http://www.reuters.com/article/environmentNews/idUSTRE55B3WU20090612

Target 203

DSIRE, Database of State Incentives for Renewables & Efficiency, "Illinois": http://www.dsireusa.org/incentives/incentive_Code=IL04R&state=IL&CurrentPageID=1

Energy information Administration, "State Renewable Electricity Profiles 2007 - Illinois": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/rspt02il.xls

Illinois General Assembly, "Bill Status of HB5855": http://www.ilga.gov/legislation/BillStatus.asp?DocNum=5855&GAID=9&DocTypeID=HB&SessionID=51

Target 204

DSIRE, Database of State Incentives for Renewables & Efficiency, "Indiana": http://dsireusa.org/incentives/index.cfm?CurrentPageID=1&State=IN&RE=1&EE=1

Indiana, House Bill 1622: http://www.in.gov/legislative/bills/2009/IN/IN1622.1.html

Legislative Services Agency, House Bill 1622:

http://www.in.gov/apps/lsa/session/billwatch/billinfo?year=2009&request=getActions&doctype=HB&docno=1622

Renewable Energy World, "Indiana Rep. Introduces Feed Law Bill & Wisconsin PSC Opens Docket on Renewable Tariffs", January, 21st, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/01/indiana-rep-introduces-feed-law-billwisconsin-psc-opens-docket-on-renewable-tariffs-54546

The Bloomington Alternative, "No Renewable energy standard for Indiana": http://www.bloomingtonalternative.com/node/9937

Target 205

25x'25 National Steering Committee, "25x'25 Action Plan, Charting America's Energy Future": http://www.25x25.org/storage/25x25/documents/IP%20Documents/Action_Plan/actionplan_64pg_11-11-07.pdf

DSIRE, Database of State Incentives for Renewables & Efficiency, "Kentucky" http://www.dsireusa.org/incentives/index.cfm?state=KY¤tpageid=1

Energy information Administration: http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/rspt02il.xls

Governor of Kentucky, "Intelligent Energy Choices for Kentucky's Future": governor.ky.gov/NR/rdonlyres/D9E37CB7-2323-4E22-B92D-F47962792F84/0/EnergyPlan.ppt

Kentucky Government, Governor Steve Beshear's Communications Office, "Governor Beshear re-emphasizes his intention to increase energy use in Kentucky", April, 24th, 2009: http://migration.kentucky.gov/newsroom/governor/20090424energy.htm

University of Louisville, Kentucky Renewable Energy Consortium: https://louisville.edu/kppc/krec

Target 206

Common Dreams.org, "Climate Change Law to be First in Nation", June, 25th, 2003: http://www.commondreams.org/headlines03/0625-07.htm

DSIRE, Database of State Incentives for Renewable & Efficiency, "Maine": http://www.dsireusa.org/incentives/index.cfm?State=ME

Efficiency Maine: http://www.efficiencymaine.com/business_programs_codes.htm

Environment Maine, "Global Warming Testimony":

http://www.environmentmaine.org/legislature/testimony/oceans-testimony/oceans/comments-on-the-rggi-model-rule

Maine, "Greenhouse Gas Emissions": http://www.maine.gov/dep/air/greenhouse/htm

Maine, "Maine Climate Action Plan 2004":

http://maineghg.raabassociates.org/Articles/MaineClimateActionPlan2004Volume%201.pdf

Public Laws of Maine, "An Act to Provide Leadership in Addressing the Threat of Climate Change": http://janus.state.me.us/legis/ros/lom/lom121st/5pub201%2D250/pub201%2D250%2D44.htm

Target 207

DSIRE, Database of State Incentives for Renewable & Efficiency, "Maine": http://www.dsireusa.org/incentives/index.cfm?State=ME

Efficiency Maine: http://www.efficiencymaine.com/business_programs_codes.htm

Maine, "Maine Climate Action Plan 2004":

http://maineghg.raabassociates.org/Articles/MaineClimateActionPlan2004Volume%201.pdf

Maine Bureau of Air Quality, "Regional Greenhouse Gas Initiative":

http://www.maine.gov/dep/air/greenhouse/rggi.htm

Maine Bureau of Air Quality, "Frequently Asked Questions": http://www.maine.gov/dep/air/greenhouse/rggifags.htm

Department of Environmental Protection State of Maine, "The Regional Greenhouse Gas Initiative: Profile of Maine's Experience", February, 18th, 2009: http://www.maine.gov/dep/air/greenhouse/pdf/canada%2002 18 09.pdf

Regional Greenhouse Gas Initiative, "About": http://www.rggi.org/about

RGGI Inc, "Fourth RGGI Auction Yields \$104.2 million for Investment in the Green Economy", June, 19th, 2009: http://www.rggi.org/docs/Auction_4_News_Release_MM_Report.pdf

Target 208

DSIRE, Database of State Incentives for Renewables & Efficiency, "Maine": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=ME01R&re=1&ee=1

Energy information Administration: http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/maine.html

Energy Information Administration, "Renewable market share of net generation by state":

http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Maine Legislature, "An Act to Establish the Renewable Energy Resources Program": http://www.mainelegislature.org/legis/bills/bills_124th/billpdfs/HP100601.pdf

Office of the Governor Maine, "Report on State Progress Towards Meeting Wind Power Goals": http://www.maine.gov/oeis/docs/wind%20reports%201_23_09.pdf

Target 209

Efficiency Maine, "Solar & Wind Program": http://www.efficiencymaine.com/renewable_programs_solar.htm

Maine Governor's Office of Energy Independence & Security: http://www.maine.gov/oeis/docs/wind%20reports%201_23_09.pdf

Maine Public Utilities Commission, "Maine as a Center of Renewable Energy for New England": http://www.eece.maine.edu/conference/JackCashman.pdf

Margaret Chase Smith, Policy Center, The University of Maine, "Maine's Wind Resource: A Source of Energy and Economic Engine": http://mcspolicycenter.umaine.edu/?q=parker_V17N2

Wikepedia, "Wind Power in Maine": http://en.wikipedia.org/wiki/Wind_power_in_Maine

Target 210

Climate Ark, "Maryland emissions bill heads to House": http://www.climateark.org/shared/reader/welcome.aspx?linkid=121978

DSIRE, Database of State Incentives for Renewable & Efficiency, "Maryland": http://www.dsireusa.org/incentives/index.cfm?State=MD

Maryland, "House Bill 315": http://mlis.state.md.us/2009rs/billfile/HB0315.htm

Maryland Department of the Environment, Press release "Governor signs legislation committing Maryland to reduce greenhouse gases to boost economy and clean energy, protect shores", May, 7th, 2009: http://www.mde.state.md.us/PressReleases/1192.html

Maryland Department of the Environment, "Greenhouse Gas Reduction Act of 2009 Bill Summary": http://www.mde.state.md.us/assets/document/Air/ClimateChange/GreenHouse_Gas_Reduction_Act_Bill_2009_Summary.pdf

Maryland Energy Administration: http://www.energy.state.md.us/

Target 211

DSIRE, Database of State Incentives for Renewable & Efficiency, "Maryland": http://www.dsireusa.org/incentives/index.cfm?State=MD

Maryland Department of the Environment, "Maryland Joins RGGI": http://textonly.mde.state.md.us/assets/document/Air/RGGI_Highlights.pdf

Maryland Department of the Environment, "Regional Greenhouse Gas Initiative": http://www.mde.state.md.us/air/rggi.asp

Regional Greenhouse Gas Initiative: http://www.rggi.org/about

Target 212

DSIRE, Database of State Incentives for Renewables & Efficiency, "Maryland": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=MD05R&state=MD&CurrentPageID=1

Energy Information Administration, "Maryland Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/maryland.html

Maryland Public Service Commission, "Renewable Portfolio Standard Documents": http://webapp.psc.state.md.us/intranet/ElectricInfo/home_new.cfm

Pew Center on Global Climate Change, "Maryland Accelerates its Renewable Portfolio Standard": http://www.pewclimate.org/node/6034

Target 213

Beveridge & Diamond, "Massachusetts Adopts Aggressive Greenhouse Gas Reduction and Green Job Creation Laws": www.bdlaw.com/news-news-371.html

Boston.com, "Climate Roadmap targets emissions", January, 22nd, 2008: http://www.boston.com/news/local/articles/2008/01/22/climate_roadmap_targets_emissions/

DSIRE, Database of State Incentives for Renewable & Efficiency, "Massachusetts": http://www.dsireusa.org/incentives/index.cfm?state=MA

Massachusetts, "Leading by Example Program, Commonwealth of Massachusetts", March, 19th, 2009: http://www.epa.gov/RDEE/documents/stateforum/03_19_09/friedman_presentation_lbe_3-19-2009.pdf

Massachusetts, "Senate Bill No. 534: An Act Global Warming Solutions act of 2007 Executive Summary": http://www.mass.gov/legis/bills/senate/185/st00/st00534.htm

Massachusetts Department of Energy Resources, "Massachusetts: National Leadership in Climate and Energy Policy": http://www.mass.gov/dep/air/climate/genpres.ppt

Pew Center on Global Climate Change, "Massachusetts enacts global warming solutions act": http://www.pewclimate.org/node/6154

Target 214

DSIRE, Database of State Incentives for Renewable & Efficiency, "Massachusetts": http://www.dsireusa.org/incentives/index.cfm?state=MA

Environment Massachusetts, "The Regional Greenhouse Gas Initiative (RGGI)": http://www.environmentmassachusetts.org/global-warming/the-regional-greenhouse-gas-initiative-rggi

Massachusetts, The Official Website of the Governor of Massachusetts, "Governor Patrick signs the Regional pact to reduce greenhouse gas emissions"; January, 18th, 2007:

http://www.mass.gov/?pageID=gov3pressrelease&L=1&L0=Home&sid=Agov3&b=pressrelease&f=reduce_greenhouse_gases 011807&csid=Agov3

Massachusetts Department of Environmental Protection, Air & Climate, Greenhouse Gases & Climate Change: http://www.mass.gov/dep/air/climate/index.htm#rggi

Regional Greenhouse Gas Initiative, "About": http://www.rggi.org/about

Target 215

Department of Energy Resources, Executive Office of Energy and Environmental Affairs Commonwealth of Massachusetts, "Massachusetts Renewable Energy Portfolio Standard, Annual RPS Compliance Report for 2007", November, 24th, 2008: http://www.mass.gov/Eoeea/docs/doer/rps/rps-2007annual-rpt.pdf

DSIRE, Database of State Incentives for Renewables & Efficiency, "Massachusetts": http://www.dsireusa.org/incentives/incentive_Code=MA05R&state=MA&CurrentPageID=1

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Massachusetts, "Health and Human Services":

http://www.mass.gov/?pageID=eohhs2subtopic&L=4&L0=Home&L1=Researcher&L2=Community+Health+and+Safety&L3=M assCHIP&sid=Eeohhs2

Target 216

American Council for an Energy-Efficient Economy, "Michigan Commits to an Energy-Efficient Electric Future": http://www.aceee.org/press/0810michigan.htm

DSIRE, Database of State Incentives for Renewables & Efficiency, "Michigan": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=MI16R&re=1&ee=1

Energy Information Administration, "State Renewable Electricity Profiles, 2007": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/rspt02mi.xls

State of Michigan, "Enrolled Senate Bill No.213", October, 2008: http://www.legislature.mi.gov/documents/2007-2008/publicact/pdf/2008-PA-0295.pdf

State of Michigan, Office of the Governor, "Granholm Applauds Renewable Energy Package", September, 18th, 2008:

http://www.michigan.gov/gov/0,1607,7-168--200347--,00.html

Wind Works, "Michigan Renewable Energy Sources Act": http://www.wind-works.org/FeedLaws/USA/Model/Michigan%20Renewable%20Energy%20Sources%20Act.doc

Target 217

American Council for an Energy-Efficient Economy, "Michigan Commits to an Energy-Efficient Electric Future": http://www.aceee.org/press/0810michigan.htm

DSIRE, Database of State Incentives for Renewables & Efficiency, "Michigan": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=MI16R&re=1&ee=1

Energy Information Administration, "State Renewable Electricity Profiles, 2007": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/rspt02mi.xls

State of Michigan, "Enrolled Senate Bill No.213", October, 2008: http://www.legislature.mi.gov/documents/2007-2008/publicact/pdf/2008-PA-0295.pdf

Target 218

DSIRE, Database of State Incentives for Renewable & Efficiency, "Minnesota": http://www.dsireusa.org/incentives/index.cfm?State=MN

Seventh Generation Advisors, "Minnesota: Future Predictions": http://www.seventhgenerationadvisors.org/files/CPP_Bulletin_4-1_FINAL.ppt#14

Minnesota Climate Change Advisory Group, "Executive Summary", April, 2008:

http://www.mnclimatechange.us/ewebeditpro/items/O3F16812.pdf

University of Minnesota News, "To reach greenhouse gas reduction goals by 2015 – U of M researchers say action must start now", July, 24th, 2008: http://www1.umn.edu/urelate/newsservice/uofmnewswire/nw-20080724.html

US Environmental Protection Agency, Climate Change – State and Local Governments, "Wisconsin": http://epa.gov/climatechange/wycd/stateandlocalgov/states/wi.html

Target 219

DSIRE, Database of State Incentives for Renewables & Efficiency, "Minnesota": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=MN14R&re=1&ee=1

Energy Information Administration, "Renewable Market Share of Net Generation by State":

http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Minnesota Public Utilities Commission, "Procedural History":

https://www.edockets.state.mn.us/EFiling/edockets/searchDocuments.do?method=showPoup&documentId={9BC0C548-1B8D-4FAF-B96F-F97BA88B0ABB}&documentTitle=4872137

Pew Center on Global Climate Change, "Minnesota RPS": http://www.pewclimate.org/node/4670

Seventh Generation Advisors, "Climate Policy Program Bulletin": http://www.seventhgenerationadvisors.org/files/CPP_Bulletin_4-1_FINAL.ppt#14

Target 220

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

DSIRE, Database of State Incentives for Renewables & Efficiency, "Missouri": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=MO08R&re=1&ee=1

Missouri Secretary of State Robin Carnahan: http://www.sos.mo.gov/elections/2008petitions/2008-031.asp

Mother Earth News, "Missouri Voters Approve A Renewable Energy Requirement": http://www.motherearthnews.com/Renewable-Energy/Missouri-Renewable-Energy-Standard.aspx

US Department of Energy, Energy Efficiency & Renewable Energy, "Missouri Voters Approve a Renewable Energy Requirement", November, 12th, 2008: http://apps1.eere.energy.gov/states/state news detail.cfm/news id=12084/state=MO

Target 221

DSIRE, Database of State Incentives for Renewable & Efficiency, "Montana":

http://www.dsireusa.org/incentives/index.cfm?State=MT&CurrentPageId=1

Pew Center on Global Climate Change, "Latest News": http://www.pewclimate.org/what s being done/in the states/news.cfm

US Environmental Protection Agency, Climate Change - State and Local Governments, "Montana": http://epa.gov/climatechange/wycd/stateandlocalgov/states/mt.html

Target 222

DSIRE, Database of State Incentives for Renewables & Efficiency, "Montana": http://www.dsireusa.org/incentives/incentive.cfm?Incentive Code=MT11R&re=1&ee=1

Energy Information Administration, "Renewable Market Share of Net Generation by State":

http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

House Bill 681. 2007 Montana Legislature: http://data.opi.mt.gov/bills/2007/billhtml/HB0681.htm

Pew Center on Global Climate Change, "Montana Sets Renewable Energy Target": http://www.pewclimate.org/node/4797

Target 223

DSIRE, Database of State Incentives for Renewables & Efficiency, "Nevada": http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=NV01R&re=1&ee=1

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Lawrence Berkeley National Laboratory, "Overview of the Status of State RPS Efforts Nationwide - Trends and Challenges", November, 6th, 2008: http://www.cleanenergystates.org/Meetings/Chicago-RPS_Summit/ChicagoSummit_Wiser.pdf

Matter Network, "Nevada Extends Tax Credits for Renewables and Increases RPS", June, 2nd, 2009: http://www.matternetwork.com/2009/6/nevada-extends-tax-credits-renewables.cfm

Pew Center on Global Climate Change, "Nevada RPS": http://www.pewclimate.org/node/4677

Target 224

DSIRE, Database of State Incentives for Renewable & Efficiency, "New Hampshire": http://www.dsireusa.org/incentives/index.cfm?State=NH

New England Governors and the Eastern Canadian Premiers, "New england Governors/Eastern Canadian Premiers Climate Action Plan 2001": http://www.negc.org/documents/NEG-ECP%20CCAP.PDF

New Hampshire Climate Change Policy Task Force, "The New Hampshire Climate Action Plan": http://des.nh.gov/organization/divisions/air/tsb/tps/climate/action_plan/documents/nhcap_final.pdf

NHPR, "Governor's Climate Change Task Force Releases Plan", March, 25th, 2009: http://www.nhpr.org/node/24135

Pew Center on Global Climate Change, "A look at Emissions Targets": http://www.pewclimate.org/what_s_being_done/targets

Target 225

DSIRE, Database of State Incentives for Renewable & Efficiency, "New Hampshire": http://www.dsireusa.org/incentives/index.cfm?State=NH

New Hampshire Climate Change Policy Task Force, "The New Hampshire Climate Action Plan": http://des.nh.gov/organization/divisions/air/tsb/tps/climate/action_plan/documents/nhcap_final.pdf

New Hampshire Department of Environmental Services, "Regional Greenhouse Gas Initiative": http://des.nh.gov/organization/divisions/air/tsb/tps/climate/rggi/index.htm

Regional Greenhouse Gas Initiative, "About": http://www.rggi.org/about

Target 226

Climate Change Attorney Blog, "New Hampshire Climate Action Plan", March, 26th, 2009: http://www.climatechangeattorney.com/2009/03/new_hampshire_climate_action_p.html

DSIRE, Database of State Incentives for Renewables & Efficiency, "New Hampshire": http://www.dsireusa.org/incentives/index.cfm?State=nh

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Gallagher, Callahan and Gartell, "Achieving NH's Renewable Energy Goals: Challenges and Opportunities", December, 2008: http://www.gcglaw.com/resources/energy/renewable-nh.html

Target 227

DSIRE, Database of State Incentives for Renewable & Efficiency, "New Jersey": http://www.dsireusa.org/incentives/index.cfm?state=NJ

Environment New Jersey, Global Warming News: http://www.environmentnewjersey.org/news-releases/global-warming/global-warming-news/governor-corzine-calls-for-sweeping-reduction-of-greenhouse-gas-emissions-in-new-jersey

US Environmental Protection Agency, Climate Change – State and Local Governments, "New Jersey": http://www.epa.gov/climatechange/wycd/stateandlocalgov/states/nj.html

Target 228

Regional Greenhouse Gas Initiative: http://www.rggi.org/about

Pew Center on Global Climate Change, "Regional Greenhouse Gas Initiative (RGGI)": http://www.pewclimate.org/what-s-being-done/in-the-states/rggi/

State of New Jersey, Global Warming, "What is NJ doing about climate change": http://www.state.nj.us/globalwarming/initiatives/#1

Target 229

DSIRE, Database of State Incentives for Renewables & Efficiency, "New Jersey":

http://www.dsireusa.org/incentives/index.cfm?state=NJ

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

State of New Jersey, Global Warming, What is NJ doing about climate change: http://www.state.nj.us/globalwarming/initiatives/

Target 230

DSIRE, Database of State Incentives for Renewable & Efficiency, "New Mexico": http://www.dsireusa.org/incentives/index.cfm?State=NM

Pew Center on Global Climate Change, "New Mexico Announces Emissions Reduction Targets": http://www.pewclimate.org/node/4800

State of New Mexico, Office of the Governor, "Governor Bill Richardson Announced New Mexico to Receive Over \$20 Million for Energy Efficiency", March, 26th, 2009: http://www.governor.state.nm.us/press/2009/march/032609_03.pdf

State of New Mexico, Office of the Governor, "Climate Change and Greenhouse Gas Reduction Executive Order – 05-033": http://www.governor.state.nm.us/orders/2005/EO_2005_033.pdf

The Climate Registry, "Voluntary Reporting": http://www.theclimateregistry.org/resources/reporting-toolkit/voluntary-reporting/

Target 231

DSIRE, Database of State Incentives for Renewables & Efficiency, "New Mexico": http://www.dsireusa.org/incentives/index.cfm?State=NM

New Mexico Climate Change Advisory Group: http://www.nmclimatechange.us/

New Mexico Energy Conservation and Management Division, "New Mexico's Solar Market Development": http://www.emnrd.state.nm.us/ecmd/Multimedia/documents/REGULARSTC04.28.08B.pdf

New Mexico, "RPS": http://www.westgov.org/wieb/climatechg/2008/nm08.pdf

State of New Mexico Governor Bill Richardson, "Governor Richardson Announces New Mexico to Award Roughly \$37 million in funding for Clean Energy projects statewide", May, 20th, 2009:

http://www.recovery.state.nm.us/docs/news/052009CleanEnergyProjectsStatewideFunding.pdf

World of Renewables: http://www.worldofrenewables.com/index.php?do=viewarticle&artid=2770&title=energy-goals-a-moving-target-for-states

Target 232

DSIRE, Database of State Incentives for Renewable & Efficiency, "New York": http://www.dsireusa.org/incentives/index.cfm?State=NY

New York State, "New York State Energy Plan" http://www.nysenergyplan.com/

New York State, "State Energy Planning": http://www.nyserda.org/Energy_Information/energy_state_plan.asp

Pew Center on Global Climate Change, "New York Emissions Target": http://www.pewclimate.org/node/4580

Target 233

DSIRE, Database of State Incentives for Renewable & Efficiency, "New York": http://www.dsireusa.org/incentives/index.cfm?State=NY

New York State Department of Environmental Conservation, "Regional Greenhouse Gas Initiative": http://www.dec.ny.gov/energy/rggi.html

Regional Greenhouse Gas Initiative, "About": http://www.rggi.org/about

Target 234

Department of Environmental Conservation: "Roadmap to Significantly Increase Renewable Energy Generation in New York": http://www.dec.ny.gov/environmentdec/42592.html

DSIRE, Database of State Incentives for Renewables & Efficiency, "New York": http://www.dsireusa.org/incentives/index.cfm?State=NY

Energy Information Administration, "New York Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/new_york.html

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

My Green Element, "Archive for the '45 by 15' category": http://www.mygreenelement.com/category/45-by-15/

New York State, "Making New York More Energy Independent and Energy Efficient": http://www.state.ny.us/governor/press/factsheet_0107092.html

New York State, "New York Renewable Portfolio Standard Program Evaluation Report", March, 2009: http://www.nyserda.org/Energy_Information/NY%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluation%20Evaluatio port%20(2009%20Review)-FINAL.pdf

New York State, "The New York Renewable Portfolio Standard": http://www.nyserda.org/rps/index.asp

Renewable Energy Focus, "New York aims for 45% renewables by 2015", January, 23rd, 2009: http://www.renewableenergyfocus.com/view/1081/new-york-aims-for-45-renewables-by-2015/

Reuters, "NY wants to install 100 MW of solar power", May, 16th, 2009:

http://in.reuters.com/article/marketsNewsUS/idINN1526242620090515

State of New York Public Service Commission:

http://www3.dps.state.ny.us/pscweb/WebFileRoom.nsf/Web/85D8CCC6A42DB86F85256F1900533518/\$File/301.03e0188.R PS.pdf?OpenElement

Target 235

DSIRE, Database of State Incentives for Renewables & Efficiency, "New York": http://www.dsireusa.org/incentives/index.cfm?State=NY

Energy Information Administration, "New York Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/new_york.html

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

My Green Element, "Archive for the '45 by 15' category": http://www.mygreenelement.com/category/45-by-15/

New York State, "Making New York More Energy Independent and Energy Efficient": http://www.state.ny.us/governor/press/factsheet_0107092.html

New York State, "New York Renewable Portfolio Standard Program Evaluation Report", March, 2009: http://www.nyserda.org/Energy_Information/NY%20Renewable%20Portfolio%20Standard%20Program%20Evaluation%20Re port%20(2009%20Review)-FINAL.pdf

New York State, "The New York Renewable Portfolio Standard": http://www.nyserda.org/rps/index.asp

Renewable Energy Focus, "New York aims for 45% renewables by 2015", January, 23rd, 2009: http://www.renewableenergyfocus.com/view/1081/new-york-aims-for-45-renewables-by-2015/

Reuters, "NY wants to install 100 MW of solar power", May, 16th, 2009: http://in.reuters.com/article/marketsNewsUS/idINN1526242620090515

State of New York Public Service Commission, "Proceeding on Motion of the Commission Regarding a Retail Renewable Portfolio Standard":

http://www3.dps.state.ny.us/pscweb/WebFileRoom.nsf/Web/85D8CCC6A42DB86F85256F1900533518/\$File/301.03e0188.R PS.pdf?OpenElement

Target 236

DSIRE, Database of State Incentives for Renewables & Efficiency, "North Carolina": http://www.dsireusa.org/incentives/incentive.cfm?Incentive Code=NC09R&re=1&ee=1

Energy Information Administration, "Renewable Market Share of Net Generation by State":

http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

North Carolina Utilities Commission, "Renewable Energy and Energy Efficiency portfolio Standard (REPS)": http://www.ncuc.commerce.state.nc.us/reps/reps.htm

Target 237

Associated Content, "Renewable energy Tax Credit, Tax Exemptions, and Utility Loans", July, 17th, 2008: http://www.associatedcontent.com/article/865929/north_dakota_renewable_energy_incentives.html

DSIRE, Database of State Incentives for Renewables & Efficiency, "North Dakota": http://www.dsireusa.org/incentives/index.cfm?State=ND

Energy Information Administration, "North Dakota Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/north_dakota.html

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Home Made Windmiller Review, "Wind Energy News": http://www.homemadewindmillreview.com/wind-energy-news

Target 238

DSIRE, Database of State Incentives for Renewables & Efficiency, "Ohio": http://www.dsireusa.org/incentives/index.cfm?State=OH

Energy Information Administration, "Ohio Renewable Electricity Profile":

http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/ohio.html

Pew Center on Global Climate Change, "Ohio Adopts Alternative Energy Portfolio Standard": http://www.pewclimate.org/node/5922

Power Magazine, "Firstenergy to Convert Coal-Fired Burger Plant to Biomass", May, 1st, 2009: http://www.powermag.com/renewables/waste_to_energy/1874.html

The Public Utilities Commission of Ohio: http://www.puco.ohio.gov/emplibrary/files/legal/rules/08-888/08-888-CE-082008.doc

Target 239

American Council for an Energy-Efficient Economy, "Shaping Ohio's Energy Future: Energy Efficiency Works", March, 2009: http://www.aceee.org/pubs/e092.htm

DSIRE, Database of State Incentives for Renewables & Efficiency, "Ohio": http://www.dsireusa.org/incentives/index.cfm?State=OH

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

General Assembly of the State of Ohio, "An Act": http://www.legislature.state.oh.us/bills.cfm?ID=127_SB_221

Ohio Environmental Council: http://www.theoec.org/PDFs/LobbyDay/EnergyFactSheet.pdf

Public Utilities Commission of Ohio http://www.puco.ohio.gov/PUCO/Utilities/OneStop.cfm?OneStopKeyword=EL

Target 240

Cascade Policy Institute, Oregon, "Oregon Greenhouse Gas Reduction Policies: The Economic and Fiscal Impact Challenges", September, 2008: http://www.cascadepolicy.org/pdf/env/200811_oregon_greenhouse_gas_reduction.pdf

DSIRE, Database of State Incentives for Renewable & Efficiency, "Oregon": http://www.dsireusa.org/incentives/index.cfm?State=OR

Earth News, "State on pace to meet 2010 emissions target - report": http://www.earthportal.org/news/?p=2247

Oregon, "Global Warming Commission": http://www.oregon.gov/ENERGY/GBLWRM/GWC/docs/09CommissionReport.pdf

Oregon, House Bill 3543: http://landru.leg.state.or.us/07reg/measpdf/hb3500.dir/hb3543.en.pdf;

Oregon Department of Energy, "Oregon Climate Action Chronology From the Carbon Standard to WCI", March, 27th, 2008: http://egov.oregon.gov/ENERGY/GBLWRM/GWC/docs/Oregon_Action_ClimateChange_Overview_March16_2008.pdf

Pew Center on Global Climate Change, "Oregon": http://www.pewclimate.org/node/4581

Western Climate Initiative: http://www.westernclimateinitiative.org/component/remository/general/Design-Recommendations-for-the-WCI-Regional-Cap-and-Trade-Program/

Target 241

DSIRE, Database of State Incentives for Renewables & Efficiency, "Oregon": http://www.dsireusa.org/incentives/index.cfm?State=OR

Oregon Government, "Oregon Strategy": http://www.oregon.gov/ENERGY/GBLWRM/Strategy.shtml

Oregon Government, "Renewable Energy Action Plan: Update on Goals": http://oregon.gov/ENERGY/RENEW/REWG/docs/REAP_Goals.pdf

Oregon Government "Oregon's Renewable Energy Action Plan": http://www.oregon.gov/ENERGY/RENEW/docs/FinalREAP.pdf

Public Utility Commission of Oregon, July, 1st, 2009: http://www.oregon.gov/PUC/meetings/pmemos/2009/060209/reg1.pdf

Oregon, "Senate Bill 838": http://www.oregon-rps.org/ENERGY/RENEW/docs/sb0838.en.pdf

Target 242

DSIRE, Database of State Incentives for Renewables & Efficiency, "Pennsylvania": http://www.dsireusa.org/incentives/index.cfm?State=PA

Energy Information Administration, "Pennsylvania Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/pennsylvania.html

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Senate Bill No 1030:

 $\frac{\text{http://www.legis.state.pa.us/CFDOCS/Legis/PN/Public/btCheck.cfm?txtType=HTM\&sessYr=2003\&sessInd=0\&billBody=S\&billTyp=B\&billnbr=1030\&pn=1973}{\text{Typ}=B\&billnbr=1030\&pn=1973}$

Target 243

DSIRE, Database of State Incentives for Renewables & Efficiency, "Pennsylvania": http://www.dsireusa.org/incentives/index.cfm?State=PA

PennFuture: http://www.pennfuture.org/media_pr_detail.aspx?MediaID=951&Archive=

Target 244

DSIRE, Database of State Incentives for Renewable & Efficiency, "Rhode Island": http://www.dsireusa.org/incentives/index.cfm?State=Rl

Rhode Island Department of Environmental Management, "Rhode Islanders Aim to Cool Global Warming; Identify More than 50 Ways to Cut Greenhouse Gases", August 1st, 2002: http://www.dem.ri.gov/news/2002/pr/0801021.htm

Rhode Island Greenhouse Gas Action Plan, July, 15th, 2002: http://righg.raabassociates.org/Articles/GHGPlanBody7-19-02FINAL.doc

Target 245

DSIRE, Database of State Incentives for Renewable & Efficiency, "Rhode Island": http://www.dsireusa.org/incentives/index.cfm?State=RI

Reuters, "Rhode Island to join RGGI greenhouse pact", February, 2007: http://www.reuters.com/article/bondsNews/idUSN0240929520070202

Regional Greenhouse Gas Initiative, "About": http://www.rggi.org/about

Regional Greenhouse Gas Initiative, "The Regional Greenhouse Gas Initiative (RGGI) Is...": http://www.rggi.org/docs/RGGI_Executive_Summary.pdf

Target 246

DSIRE, Database of State Incentives for Renewables & Efficiency, "Rhode Island": http://www.dsireusa.org/incentives/index.cfm?State=RI

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

State of Rhode Island and Province Plantations, "Rhode Island Renewable Energy Standard": http://www.ripuc.org/utilityinfo/PUC-RES-AnnualReport2007(2-5-09).pdf

Union of Concerted Scientists, "Rhode Island Renewable Energy Standard Summary": http://www.ucsusa.org/assets/documents/clean_energy/rhode-island.pdf

Target 247

DSIRE, Database of State Incentives for Renewables & Efficiency, "South Dakota": http://www.dsireusa.org/incentives/index.cfm?State=SD

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Target 248

DSIRE, Database of State Incentives for Renewables & Efficiency, "Texas": http://www.dsireusa.org/incentives/index.cfm?State=TX

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Public Utility Commission of Texas, "Goal for Renewable Energy":

http://www.puc.state.tx.us/rules/subrules/electric/25.173/25.173ei.cfm

State Energy Conservation Office, "Texas Renewable Portfolio Standard": http://www.seco.cpa.state.tx.us/re_rps-portfolio.htm

Target 249

Climate Change, "Utah's Greenhouse Gas Goal": http://www.deq.utah.gov/Climate_Change/GHG_goal.htm

Department of Ecology State of Washington, "WCI establishes regional greenhouse gas emission reduction goal", August, 22nd, 2007: http://www.ecy.wa.gov/news/2007news/2007-245.html

DSIRE, Database of State Incentives for Renewable & Efficiency, "Utah": http://www.dsireusa.org/incentives/index.cfm?CurrentPageID=1&State=UT

US Department of Energy, Energy Efficiency & Renewable Energy, "Utah Joins Western Climate Initiative", May, 22nd, 2007: http://apps1.eere.energy.gov/states/news_detail.cfm/news_id=10987

Utah Government, "Utah Greenhouse gas Reduction Goal Setting": Processhttp://www.climatechange.utah.gov/docs/Utah_GHG_Reduction_Goal_Setting_Process.pdf

Target 250

DSIRE, Database of State Incentives for Renewables & Efficiency, "Utah": http://www.dsireusa.org/incentives/index.cfm?CurrentPageID=1&State=UT

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Energy Information Administration "Utah Renewable Electricity Profile": http://www.eia.doe.gov/cneaf/solar.renewables/page/state_profiles/utah.html;

Pew Center on Global Climate Change, "Utah RPS": http://www.pewclimate.org/node/6323

Target 251

DSIRE, Database of State Incentives for Renewable & Efficiency, "Vermont": http://www.dsireusa.org/incentives/index.cfm?State=VT

New England Governors and the Eastern Canadian Premiers, "Climate Change Action Plan 2001": http://www.negc.org/documents/NEG-ECP%20CCAP.PDF

US Environmental Protection Agency, Climate Change - State and Local Governments, "Vermont": http://epa.gov/climatechange/wycd/stateandlocalgov/states/vt.html

Vermont, Act 168, "An Act Relating to Establishing Greenhouse Gas Reduction Goals and A Plan For Meeting Those Goals": http://www.newamerica.net/files/Vermont_GHG_Targets_ACT168.pdf

Target 252

Regional Greenhouse Gas Initiative, "Welcome": http://www.rggi.org/home

Pew Center on Global Climate Change, "Regional Greenhouse Gas Initiative (RGGI)": http://www.pewclimate.org/what_s_being_done/in_the_states/rggi/

US Environmental Protection Agency, Climate Change - State and Local Governments, "Vermont": http://epa.gov/climatechange/wycd/stateandlocalgov/states/vt.html

Target 253

DSIRE, Database of State Incentives for Renewables & Efficiency, "Vermont": http://www.dsireusa.org/incentives/index.cfm?State=VT

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Pew Center on Global Climate Change, "Vermont Feed-in Tariff": http://www.pewclimate.org/node/6559

Renewable Energy World, "Vermont FITs Become Law: The Mouse that Roared", June, 1st, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/06/vermont-fits-become-law-the-mouse-that-roared

Vermont Governor's Commission on Climate Change: http://www.vtclimatechange.us/ewebeditpro/items/O123F11463.pdf

Target 254

25x'25 America's energy Future: http://www.25x25.org

State of Vermont, Office of the Governor, "The Vermont Way Forward: Environmental Leadership": http://governor.vermont.gov/priorities/Bio-Fuels_25_x_25_Initiatives_2007.pdf

The Vermont 25x'25 Initiative, "Vermont 25x'25 Initiative Preliminary Findings and Goals": http://www.vermontagriculture.com/energy/documents/report.pdf

Target 255

DSIRE, Database of State Incentives for Renewable & Efficiency, "Virginia": http://www.dsireusa.org/incentives/index.cfm?State=VA

Governor's Commission on Climate Change, "Final Report: A Climate Change Action Plan": http://www.deq.virginia.gov/export/sites/default/info/documents/climate/CCC_Final_Report-Final_12152008.pdf

Government of Virginia, Executive Order 59 (2007): http://www.governor.virginia.gov/Initiatives/ExecutiveOrders/2007/EO_59.cfm

Pew Center on Global Climate Change, "Virginia Releases Climate Action Plan": http://www.pewclimate.org/node/6319

Virginia Department of Mines, Minerals and Energy, "The Virginia Energy Plan": http://www.governor.virginia.gov/TempContent/2007_VA_Energy_Plan-Full_Document.pdf

Target 256

Chesapeake Climate Action Network "Home grown energy is good for Virginia": http://www.chesapeakeclimate.org/campaigns/campaign_detail.cfm?id=2

DSIRE, Database of State Incentives for Renewables & Efficiency, "Virginia":

http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=VA10R&re=1&ee=1

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Virginia RPS Coordinating Group, "Renewable Energy and Efficiency Portfolio Standard for the Commonwealth of Virginia", January, 6th, 2006: http://dls.state.va.us/GROUPS/elecutil/01_06_06/chesapeake.pdf

Target 257

Department of Ecology State of Washington, "Climate Change": http://www.ecy.wa.gov/climatechange/ghg_inventory.htm

DSIRE, Database of State Incentives for Renewable & Efficiency, "Washington": http://www.dsireusa.org/incentives/index.cfm?State=WA

State of Washington, Office of the Governor, "Executive Order 08-02":

http://www.governor.wa.gov/execorders/eo_07-02.pdf

Washington, House Bill 2815, "Greenhouse Gas Emissions": http://www.leg.wa.gov/pub/billinfo/2007-08/Pdf/Bills/Session%20Law%202008/2815-S2.sl.pdf

Washington, "Leading the Way: A Comprehensive approach to Reducing Greenhouse Gases in Washington State" February, 1st, 2008: http://www.ecy.wa.gov/climatechange/CATdocs/020708_InterimCATreport_final.pdf

Washington, "Provisions of Engrossed Substitute Senate Bill (ESSB) 6001 relating to Climate Advisory Team (CAT) and Technical Working Groups (TWGs)": http://www.ecy.wa.gov/climatechange/CATdocs/060707sb6001.pdf

Washington, Senate Bill 6001:

http://www.leg.wa.gov/pub/billinfo/2007-08/Pdf/Bills/Senate%20Passed%20Legislature/6001-S.PL.pdf

Target 258

DSIRE, Database of State Incentives for Renewables & Efficiency, "Washington": http://www.dsireusa.org/incentives/index.cfm?CurrentPageID=1&State=WA

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Washington State Legislature: http://apps.leg.wa.gov/RCW/default.aspx?cite=19.285.060

Target 259

DSIRE, Database of State Incentives for Renewable & Efficiency, "Wisconsin": http://www.dsireusa.org/incentives/index.cfm?State=WI

Milwaukee Journal-Sentinel, "Wisconsin emissions proposal moves to Doyle": http://www.jsonline.com/business/29551504.html

Pew Center on Global Climate Change, "Wisconsin Releases Final Climate Action Plan": http://www.pewclimate.org/node/6157

State Bar of Wisconsin, "Emerging Practice Area: The Regulation of Greenhouse Gases", Marc, 3rd, 2009: http://www.wisbar.org/AM/Template.cfm?Section=Home&CONTENTID=79935&TEMPLATE=/CM/ContentDisplay.cfm

Wisconsin Governor's Task Force on Global Warming, "Final Report to Governor Jim Doyle", July, 2008: http://dnr.wi.gov/environmentprotect/gtfgw/documents/Final_Report.pdf

Target 260

DSIRE, Database of State Incentives for Renewables & Efficiency, "Wisconsin": http://www.dsireusa.org/incentives/index.cfm?State=WI

Energy Information Administration, "Renewable Market Share of Net Generation by State": http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table27.html

Public Service Commission of Wisconsin, "Wisconsin Renewable Portfolio and Renewable Resource Credit Program": http://psc.wi.gov/utilityinfo/electric/newsInfo/renewableResource.htm

Rickerson, W; Bennhold, F; and Bradbury, J, "Feed-in Tariffs and Renewable Energy in the USA – a Policy Update", May, 2008: http://www.boell.org/docs/Feed-in%20Tariffs%20and%20Renewable%20Energy%20in%20the%20USA%20-%20a%20Policy%20Update.pdf

Oceania

Target 261

The Age, "Australia on track to meet Kyoto target", February 25th, 2008: http://www.theage.com.au/news/environment/australia-on-track-to-meet-kyototarget/2008/02/24/1203788146629.html

Australian Government Department of Climate Change, "Emissions Projections, August 24th, 2009": http://www.climatechange.gov.au/projections/index.html

Australia Government Department of Climate Change, "Australia's National Greenhouse Accounts", August 10th, 2009: http://www.climatechange.gov.au/inventory/index.html

Australia, "National Greenhouse Gas Inventory": http://www.climatechange.gov.au/international/publications/pubs/4ncchapters3-9.pdf

Australian Conservation Foundation, "Australia and the Kyoto Protocol": http://www.acfonline.org.au/news.asp?news_id=271

United Nations Framework Convention on Climate Change: "Kyoto Protocol – Targets": http://unfccc.int/kyoto_protocol/items/3145.php

Target 262

Australian Government Department of Climate Change, "Carbon Pollution Reduction Scheme - Australia's Low Pollution Future", December 15th, 2008: http://www.climatechange.gov.au/whitepaper/report/index.html

Mondaq, "Australia: carbon Pollution: Business Opportunities For 2009", December 17th, 2009: http://www.mondaq.com/article.asp?articleid=71696

The Guardian, "Australia pledges to cut emissions up to 15%", December 15th, 2008: http://www.guardian.co.uk/environment/2008/dec/15/climate-change-australia

United Nations Framework Convention on Climate Change, "Information on possible quantified emission limitation and reduction objectives from Annex I Parties", June 11th, 2009: http://unfccc.int/resource/docs/2009/awq8/eng/misc13a01.pdf

Target 263

Australian Government Department of Climate Change, "Australian Government's Renewable Energy Target Factsheet": http://www.climatechange.gov.au/renewabletarget/publications/pubs/fs-ret-update.pdf

Australian Government Department of Climate Change, "Legislation and the Renewable Energy Regulator": http://www.climatechange.gov.au/renewabletarget/legislation.html

Australian Government Department of Climate Change, "Renewable Energy (Electricity) Amendment Bill 2009", http://www.climatechange.gov.au/minister/combet/speeches/documents/RET_Billsecondreadingspeech.pdf

Australian Government Office of the Renewable Energy Regulator, Renewable Energy Certificates (RECs): http://www.orer.gov.au/recs/index.html

Australian Government, "Renewable Energy (Electricity) Act, 2000": <a href="http://www.comlaw.gov.au/ComLaw/Legislation/ActCompilation1.nsf/0/09A5416734D87A01CA2575EC00060281/\$fil http://www.comlaw.gov.au/comlaw/Legislation/ActCompilation1.nsf

Enviro Friendly Products, "Feed In Tariffs Encourage PV Solar Panels On Homes": http://www.enviro-friendly.com/feed-in-tariff-pv.shtml

Minter Ellison, "Clean Energy in Australia and New Zealand", February, 2009: http://www.minterellison.co.nz/publications/Austrade%20Conference%20Paper%20-%20Feb%202009.pdf

New Energy World Network, "Australia announces new renewable energy target, solar credits scheme", December 17th, 2009: http://www.newenergyworldnetwork.com/renewable-energy-news/by-technology/solar-by-technology-new-news/australia-announces-new-renewable-energy-target-solar-credits-scheme.html

Renewable Energy Policy Network for the 21st Century, "Action/Pledge Status Update – Australia": http://www.ren21.net/pledges/commitment.asp?id=1059

Renewable Energy Focus, "Solar electricity in Australia", April, 14th, 2009: http://www.renewableenergyfocus.com/view/1280/solar-electricity-in-australia/

Renewable Energy World, "Australian Senate Passes Renewable Energy Target Bill", August 25th, 2009: http://www.renewableenergyworld.com/rea/news/article/2009/08/australian-senate-passes-renewable-energy-target-bill

Target 264

Australian Government Department of Environment, Water, Heritage and the Arts, "Frequently Asked Questions": http://www.environment.gov.au/settlements/energyefficiency/lighting/faq-phaseout.html

e/RenewableEnergyElectricityAct2000.pdf

Australian Government Department of Environment, Water, Heritage and the Arts, "Consultation Regulatory Impact Statement – Proposal to Phase out Inefficient Incandescent Bulbs", http://www.energyrating.gov.au/library/details200808-ris-phaseout.html

BBC News, "Australia pulls the plug on old bulbs", February, 20, 2007: http://news.bbc.co.uk/1/hi/world/asia-pacific/6378161.stm

Equipment Energy Efficiency Committee, "Regulatory Impact Statement: Proposal to Phase-Out Inefficient Incandescent Light Bulbs", September, 2008: http://www.energyrating.gov.au/library/pubs/200808-ris-phaseout.pdf

Reuk online, "Australia to Ban Incandescent Bulbs in 2010": http://www.reuk.co.uk/Australia-to-Ban-Incandescent-Bulbs-in-2010.htm

Target 265

Minter Ellison, "New South Wales mandates use of renewable energy", August, 2007: http://www.minterellison.com/public/connect/Internet/Home/Legal+Insights/Newsletters/Previous+Newsletters/A-C-NSW+mandates+use+of+renewable+energy

New South Wales Government, "Energy": http://www.dwe.nsw.gov.au/energy/sustain_renew.shtml

New South Wales Government, "NSW State Plan": http://www.nsw.gov.au/stateplan/

New South Wales Government, "The State Plan":

http://www.nsw.gov.au/stateplan/index.aspx?id=8f782cbd-0528-4077-9f40-75af9e4cc3e5

Target 266

Government of South Australia, "Environment and Water Department": http://www.sa.gov.au/subject/environment+and+water

Renewable Energy Focus, "South Australia aims or 33% renewables by 2020", June 4th, 2009: http://www.renewableenergyfocus.com/view/2015/south-australia-aims-for-33-renewables-by-2020/

Target 267

New Zealand Ministry for the Environment, "Projects to reduce emissions," http://www.mfe.govt.nz/issues/climate/policies-initiatives/projects/index.html

Renewable Energy Policy Network for the 21st Century: "Action/Pledge Status Update – New Zealand": http://www.ren21.net/pledges/commitment.asp?id=100

Renewable Energy World, "New Zealand Commits to 90% Renewable Electricity by 2025", September, 26th, 2007:

 $\underline{\text{http://www.renewableenergyworld.com/rea/news/article/2007/09/new-zealand-commits-to-90-renewable-electricity-by-2025-50075}$

Reuters, "New Zealand expected to exceed Kyoto target", April, 15th, 2009: http://in.reuters.com/article/environmentNews/idINTRE53E0JQ20090415

Target 268

Climate Change Corp, "New Zealand emissions trading scheme gets tough on farming emissions", December 12th, 2007: http://www.climatechangecorp.com/content.asp?ContentID=5061

Energy Efficiency and Conservation Authority, "Funding": http://www.eeca.govt.nz/eeca-programmes-and-funding/funding

New Zealand Ministry for the Environment, "Proposed National Policy Statement for Renewable Electricity Generation": http://www.mfe.govt.nz/publications/rma/nps-renewable-electricity-generation/nps-for-renewable-electricity-generation.html

Minter Ellison, "Clean Energy in Australia and New Zealand", February, 2009: http://www.minterellison.co.nz/publications/Austrade%20Conference%20Paper%20-%20Feb%202009.pdf

Renewable Energy World, "New Zealand Commits to 90% Renewable Electricity by 2015", September, 26th, 2007: http://www.renewableenergyworld.com/rea/news/article/2007/09/new-zealand-commits-to-90-renewable-electricity-by-2025-50075

Renewable Energy Policy Network for the 21st Century, "Action/Pledge Status Update – New Zealand": http://www.ren21.net/pledges/commitment.asp?id=1057

Target 269

Business Green, "New Zealand latest to ban the bulb", June 18th, 2008, <a href="http://www.businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessgreen.com/businessg

Electricity Commission, "New Zealand Efficient Lighting Strategy 2008 to 2010": http://www.electricitycommission.govt.nz/pdfs/advisorygroups/pjtteam/LESG/ELS.pdf

Energy Efficiency News, "New Zealand Switches to Energy Efficient Light-bulbs": http://www.energyefficiencynews.com/lighting/i/314/

EnergyWise, "You've Got The Power to Improve The Energy Efficiency of Your Home": http://www.bdt.co.nz/smarterheating/data/pdf/energywise-factsheet-7.pdf

United Nations Department of Economic and Social Affairs, Division for Sustainable Development, "Case Study Detail Record – New Zealand": http://webapps01.un.org/dsd/caseStudy/public/displayDetailsAction.do?code=425

Disclaimer

DB Climate Change Advisors is the brand name for the institutional climate change investment division of Deutsche Asset Management, the asset management arm of Deutsche Bank AG. In the US, Deutsche Asset Management relates to the asset management activities of Deutsche Bank Trust Company Americas, Deutsche Investment Management Americas Inc. and DWS Trust Company; in Canada, Deutsche Asset Management Canada Limited (Deutsche Asset Management Canada Limited is a wholly owned subsidiary of Deutsche Investment Management Americas Inc); in Germany and Luxembourg: DWS Investment GmbH, DWS Investment S.A., DWS Finanz-Service GmbH, Deutsche Asset Management Investmentgesellschaft mbH, and Deutsche Asset Management International GmbH; in Australia, Deutsche Asset Management (Australia) Limited (ABN 63 116 232 154); in Hong Kong, Deutsche Asset Management (Hong Kong) Limited; in Japan, Deutsche Asset Management Limited (Japan); in Singapore, Deutsche Asset Management (Asia) Limited (Company Reg. No. 198701485N) and in the United Kingdom, RREEF Limited, RREEF Global Advisers Limited, and Deutsche Asset Management (UK) Limited; in addition to other regional entities in the Deutsche Bank Group.

This material is intended for informational purposes only and it is not intended that it be relied on to make any investment decision. It does not constitute investment advice or a recommendation or an offer or solicitation and is not the basis for any contract to purchase or sell any security or other instrument, or for Deutsche Bank AG and its affiliates to enter into or arrange any type of transaction as a consequence of any information contained herein. Neither Deutsche Bank AG nor any of its affiliates, gives any warranty as to the accuracy, reliability or completeness of information which is contained in this document. Except insofar as liability under any statute cannot be excluded, no member of the Deutsche Bank Group, the Issuer or any officer, employee or associate of them accepts any liability (whether arising in contract, in tort or negligence or otherwise) for any error or omission in this document or for any resulting loss or damage whether direct, indirect, consequential or otherwise suffered by the recipient of this document or any other person.

The views expressed in this document constitute Deutsche Bank AG or its affiliates' judgment at the time of issue and are subject to change. This document is only for professional investors. This document was prepared without regard to the specific objectives, financial situation or needs of any particular person who may receive it. The value of shares/units and their derived income may fall as well as rise. Past performance or any prediction or forecast is not indicative of future results. No further distribution is allowed without prior written consent of the Issuer.

The forecasts provided are based upon our opinion of the market as at this date and are subject to change, dependent on future changes in the market. Any prediction, projection or forecast on the economy, stock market, bond market or the economic trends of the markets is not necessarily indicative of the future or likely performance.

For Investors in the United Kingdom:

Issued in the United Kingdom by Deutsche Asset Management (UK) Limited of One Appold Street, London, EC2A 2UU. Authorised and regulated by the Financial Services Authority. This document is a "non-retail communication" within the meaning of the FSA's Rules and is directed only at persons satisfying the FSA's client categorisation criteria for an eligible counterparty or a professional client. This document is not intended for and should not be relied upon by a retail client.

When making an investment decision, potential investors should rely solely on the final documentation relating to the investment or service and not the information contained herein. The investments or services mentioned herein may not be appropriate for all investors and before entering into any transaction you should take steps to ensure that you fully understand the transaction and have made an independent assessment of the appropriateness of the transaction in the light of your own objectives and circumstances, including the possible risks and benefits of entering into such transaction. You should also consider seeking advice from your own advisers in making this assessment. If you decide to enter into a transaction with us you do so in reliance on your own judgment.

For Investors in Australia:

In Australia, Issued by Deutsche Asset Management (Australia) Limited (ABN 63 116 232 154), holder of an Australian Financial Services License. An investment with Deutsche Asset Management is not a deposit with or any other type of liability of Deutsche Bank AG ARBN 064 165 162, Deutsche Asset Management (Australia) Limited or any other member of the Deutsche Bank AG Group. The capital value of and performance of an investment with Deutsche Asset Management is not guaranteed by Deutsche Bank AG, Deutsche Asset Management (Australia) Limited or any other member of the Deutsche Bank Group. Investments are subject to investment risk, including possible delays in repayment and loss of income and principal invested.

For Investors in Hong Kong:

Interests in the funds may not be offered or sold in Hong Kong or other jurisdictions, by means of an advertisement, invitation or any other document, other than to Professional Investors or in circumstances that do not constitute an offering to the public. This document is therefore for the use of Professional Investors only and as such, is not approved under the Securities and Futures Ordinance (SFO) or the Companies Ordinance and shall not be distributed to non-Professional Investors in Hong Kong or to anyone in any other jurisdiction in which such distribution is not authorised. For the purposes of this statement, a Professional investor is defined under the SFO.

For Investors in MENA region:

This information has been provided to you by Deutsche Bank AG Dubai (DIFC) branch, an Authorised Firm regulated by the Dubai Financial Services Authority. It is solely directed at Market Counterparties or Professional Clients of Deutsche Bank AG Dubai (DIFC) branch, which meets the regulatory criteria as established by the Dubai Financial Services Authority and may not be delivered to or acted upon by any other person.

I-014054-1.1