



FRAMEWORK CONVENTION ON CLIMATE CHANGE - Secretariat CONVENTION - CADRE SUR LES CHANGEMENTS CLIMATIQUES - Secrétariat

FCCC/WEB/2002/7 17 October 2002

"GOOD PRACTICES" IN POLICIES AND MEASURES AMONG PARTIES INCLUDED IN ANNEX I TO THE CONVENTION

Policies and measures reported by Parties included in Annex I to the Convention in their third national communications

Database information

- 1. To facilitate the analysis on "good practices" in policies and measures among Parties included in Annex I to the Convention¹, the secretariat set up a database for policies and measures of Annex I Parties reported in their third national communications (NC3). This database contains mainly information on key policies and measures reported by the Parties² in the relevant summary table as required by the UNFCCC guidelines. It also contains information on policies which have been reported as having a significant impact, or are innovative, or are replicable, or could modify long-term trends or have a negative impact³ on emission trends. In cases when a Party reported a large number of policies and measures in the summary table of its NC3, the choice of which to include in the database was made according to the following criteria: policies and measures already implemented or adopted, and clearly on track to be implemented in the near future; policies and measures with a significant effect; and policies and measures at the national level.⁴
- 2. The level of detail in the database broadly corresponds to the requirements of the UNFCCC guidelines for reporting of information on policies and measures in the form of a summary table. However, depending on the approach taken by Parties in reporting information in the summary table, in some cases the information is self-explanatory whereas in others it should be considered together with information from the relevant national communication. The database has already proven its usefulness in facilitating the analysis in document *Report on policies and measures of Parties included in Annex I to the Convention reported in third national communications* FCCC/SBSTA/2002/INF.13.
- 3. This web-based document contains a printout of the database, presented by Party and by sector. Each policy or measure is described in the printout by its name and objective (first column), type of instrument used (second column), status of implementation (third column) and implementing entity (fourth column). Additional information from the national communications (for example when more than one type of instrument was used for implementation) is presented in italics.
- 4. In addition to the database printout, the greenhouse gas (GHG) emission profile of each Party is presented, based on the information from the 2002 annual GHG inventories⁵.

This analysis is contained in document Report on policies and measures of Parties included in Annex I to the Convention reported in third national communications FCCC/SBSTA/2002/INF.13.

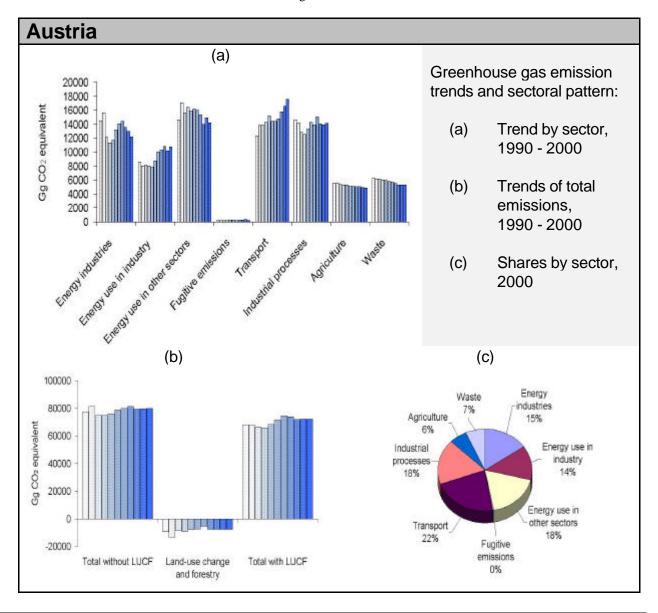
These are policies and practices which encourage activities that lead to greater levels of anthropogenic GHG emissions than would otherwise occur (see UNFCCC reporting guidelines on national communications, FCCC/CP/1999/7, page 83, para 16)

The database contains information on 21 Parties which submitted their third national communications before the of end June 2002. The information on Liechtenstein and Monaco was not included, because the third national communications of these Parties contained little information related to the database.

To include information on policies and measures at the regional and the local levels at this stage could potentially lead to double counting (see FCCC/SBI/2001/INF.4).

In some cases, where no complete time series of GHG inventory data was available, the GHG profile has some data gaps.

FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Stepped-up public support for GHG mitigation projects	Economic	Planned	Federation
Promotion of heat supply from renewable energy, energy efficiency measures etc.	Promotive		national
'Green electricity' for public buildings	Economic	Adopted	Federation, Länder, municipalities
Raising share of electricity production from renewables through purchase power of public entities		adopted / planned	national, regional and local
Promotion of energy efficiency and renewable energy	Economic	Implemented	Federation
Energy-savings and increasing share of renewables in industry	promotive		national
Energy efficiency programme	Information/ Education	Planned	Federation

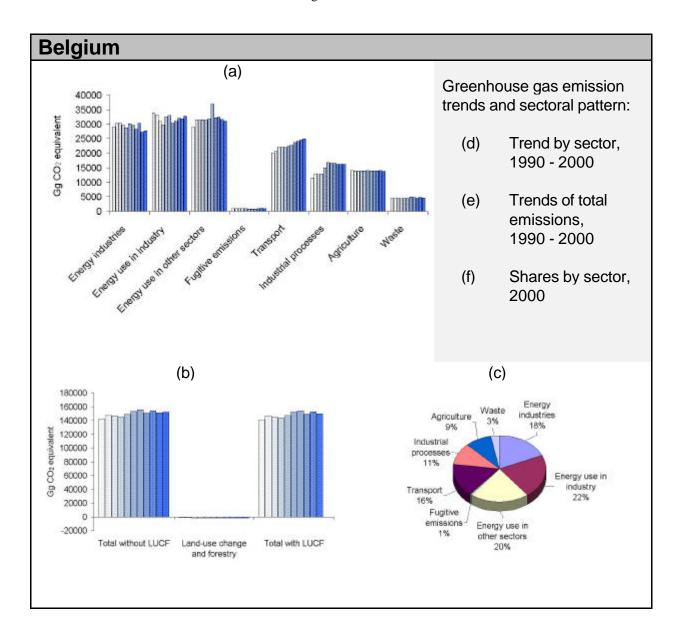
Page 3 FCCC/WEB/2002/7

Promotion of economic energy-saving in industry	consultative, promotive		national
Voluntary agreements and flexible instruments	Voluntary	Planned	Federation
Cost efficient GHG reductions in industry	Agreement voluntary / negotiated / agreements, economic		national
Energy related taxes Revenue-raising with positive side-effect of potential GHG reductions	Fiscal	Implemented	Federation national
Sector: Energy Industries	Instrument	Status	Implementing Entity
Preferential market access for 'green electricity'	Economic	Implemented	Federation (framework), Länder (executing laws)
Raising share of renewable energy sources in electricity supply	regulatory		national and regional
Public support for renewable energy projects and district heating	Economic	Implemented	Federation, Länder, EU
Raising share of heat production from renewable energy sources and CHP	Promotive		national, regional and
Preferential framework conditions for CHP	Economic	Implemented	Federation (framework), Länder (executing laws) EU (future targets)
Promotion of combined heat and power production by granting improved feed-in conditions or setting obligatory quota	Economic, regulatory, promotive	framework law implemented; executing laws planned	national, regional and
Further development of targets for 'green	Economic	Planned	Federation (framework), Länder (executing laws)
Raising share of renewable energy sources in electricity supply	Regulatory		national and regional
Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Agreement between Federation and Länder on energy-saving	Regulatory	Implemented	Federation and Länder
Energy-savings in buildings, heating installations and electricity consumption	framework legislation		national and regional
Minimum thermal standards for buildings Energy-savings in buildings	Regulatory implementation	Implemented implemented/planned	Länder regional
Housing support schemes Energy-savings in dwellings (new and renovation)	Economic Promotive	Implemented Implemented / adopted / planned	Länder regional
Consumption-related heating costs calculation Energy-savings in buildings	Regulatory	Implemented	Federation national
'Contracting' for public buildings	Economic	Implemented	Federation, Länder,

Energy-savings in public and private sector buildings	Economic / voluntary	Implemented / adopted / planned	municipalities national, regional and local
Replacement of old heating systems Energy-savings in buildings by improvement of heating energy supply	Economic <i>Promotive</i>	Implemented Implemented / adopted / planned	Länder, municipalities regional and local
Sector: Transport	Instrument	Status	Implementing Entity
Reduction of emissions from passenger cars	Voluntary Agreement	Implemented	Federation, EU
Raising market share of advanced engine technologies with low fuel consumption	voluntary / information		national and EU
Fuel consumption levy Fiscal incentive for low fuel consumption vehicles	Fiscal	Implemented	Federation national
Road tolls Internalisation of external costs for use of highways	Fiscal	Implemented	Federation national
Vehicle tax adaptation 2000 Internalisation of external costs, especially for strong engines	Fiscal	Implemented	Federation national
Rail infrastructure and public transport	Other	Implemented	Federation, Länder, municipalities
Changing modal split to the benefit of rail/public transport	public investments and promotion	Implemented / adopted / planned	national, regional and local
Improvement of fuel quality and promotion of 'bio-diesel'	Regulatory	Implemented	Federation
GHG emissions reduction through fuel improvement and renewable energy sources	Regulatory and fiscal	Implemented / planned	national
Mileage based toll for lorries	Fiscal	Adopted	Federation
Internalisation of external costs of road transport			national
Improvement of transport logistics	Information/ Education	Implemented	Federation, Länder
Avoidance of inefficient and unnecessary transportation of goods, aiming at a total reduction of	Promotive, information	Implemented / adopted / planned	national and regional
Promotion of walking and cycling	Information/ Education	Implemented	(Federation), Länder, municipalities
Shifting modal split, improving living conditions and safety	promotive, information, education	implemented / adopted / planned	national, regional and local
Improvement of spatial planning Avoidance of traffic-inducing settlement structures	Regulatory planning / regulatory	Planned	Länder regional

Page 5 FCCC/WEB/2002/7

Traffic management and speed limitation Avoidance of congestions; promotion of economic driving	Regulatory information / regulatory / fiscal	Planned	Länder regional
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Implementation of the IPPC directive Energy-savings and efficiency raising measures in industry	Regulatory	Implemented	Federation, (EU) national (and EU)
Partial phase-out of HFCs and SF6 Substantial reduction of emissions of gases with high GWP	Regulatory	Planned	Federation national
Avoidance of leakage	Voluntary Agreement	Planned	Federation
Substantial reduction of emissions of gases with high GWP	voluntary, research		national
Sector: Agriculture	Instrument	Status	Implementing Entity
Extension of ecological farming Protection of rural environment (soil, water, natural and cultural habitate); production of high quality food	Economic promotive / economic	Implemented	Federation, Länder, EU national, regional. EU
Cultivation of oil-seed crops Extension of crops for production of bio-fuels	Fiscal promotive, fiscal	Implemented	Federation, Länder national and regional
Coston I and Has Change and Fanceton	T 4	Status	Implementing Entity
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Maintenance and extension of high conservation value forests	Research	Adopted	Federation Länder
Maintenance and extension of high conservation			
Maintenance and extension of high conservation value forests Protection of high conservation value forests,	Research informtion,	Adopted	Federation Länder
Maintenance and extension of high conservation value forests Protection of high conservation value forests, adaptation to climate change	Research informtion, training	Adopted planned	Federation Länder National and regional
Maintenance and extension of high conservation value forests Protection of high conservation value forests, adaptation to climate change Sector: Waste	Research informtion, training Instrument	Adopted planned Status	Federation Länder National and regional Implementing Entity Federation (framework), Länder (executing laws),
Maintenance and extension of high conservation value forests Protection of high conservation value forests, adaptation to climate change Sector: Waste Landfill Regulation 1996 Minimisation of waste landfilling Expansion of waste treatment capacities other	Research informtion, training Instrument	Adopted planned Status Implemented	Federation Länder National and regional Implementing Entity Federation (framework), Länder (executing laws), municipalities national, regional and
Maintenance and extension of high conservation value forests Protection of high conservation value forests, adaptation to climate change Sector: Waste Landfill Regulation 1996 Minimisation of waste landfilling	Research informtion, training Instrument Regulatory	Adopted planned Status Implemented Implemented / adopted	Federation Länder National and regional Implementing Entity Federation (framework), Länder (executing laws), municipalities national, regional and local
Maintenance and extension of high conservation value forests Protection of high conservation value forests, adaptation to climate change Sector: Waste Landfill Regulation 1996 Minimisation of waste landfilling Expansion of waste treatment capacities other than landfilling Banning disposal on landfills by 2004/2008; expanding share of other capacities, e.g. energy efficient	Research informtion, training Instrument Regulatory	Adopted planned Status Implemented Implemented / adopted Planned Planned /	Federation Länder National and regional Implementing Entity Federation (framework), Länder (executing laws), municipalities national, regional and local Länder, municipalities
Maintenance and extension of high conservation value forests Protection of high conservation value forests, adaptation to climate change Sector: Waste Landfill Regulation 1996 Minimisation of waste landfilling Expansion of waste treatment capacities other than landfilling Banning disposal on landfills by 2004/2008; expanding share of other capacities, e.g. energy efficient incineration Efficient energy recovery from waste	Research informtion, training Instrument Regulatory Regulatory	Adopted planned Status Implemented Implemented / adopted Planned Planned / adopted	Federation Länder National and regional Implementing Entity Federation (framework), Länder (executing laws), municipalities national, regional and local Länder, municipalities regional and local Federation



Sector: Energy	Instrument	Status	Implementing Entity
RUE/electricity Fund Improvement of energy efficiency, promotion of the	Economic	Implemented	Federal State, Ministry of Economic Affairs - Energy Administration national
RES and the RUE (Rational Use of Energy)			
Sector: Energy Industries	Instrument	Status	Implementing Entity
Purchase at a guaranteed price of electricity produced from renewable energy sources	Economic	Adopted	Federal State, Ministry of Economic Affairs (Energy Administration)
Promotion of renewable energy	Minimum price guarantee		national

Page 7 FCCC/WEB/2002/7

Green certificates Promotion of electricity derived from renewable energy sources or from CHP	Regulatory	Adopted	Federal State, Ministry of Economic Affairs (Energy Administration) and regional ministries national and regional
Green electricity Promotion of electricity derived from RES or from	Regulatory	Adopted	Federal State, Ministry of Economic Affairs (Energy Administration) national
CHP: Eligibility of producers and consumers, and priority access to the network for green electricity			
Subsidies to promote renewable energy sources	Economic	Implemented	Regional Energy Administrations
Installation of photovoltaic panels, CHP installations and solar water heaters.	Subsidies		regional
Reductions in tariff for the clients of CHP installations	Regulatory	Implemented	Federal State, Ministry of Economic Affairs - Energy Administration
Promotion of CHP	Price regulation		national
Financial support for the production of electricity from RES	Economic	Implemented	Federal State, Ministry of Economic Affairs - Energy Administration
Promotion of RES	Subsidies		national
	~		
Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
Tax reductions on investments (industrial and residential sector)		Status Implemented	Federal State, Ministry of Finance
Tax reductions on investments (industrial and	Instrument		Federal State, Ministry of
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and	Instrument		Federal State, Ministry of Finance national Regional Energy
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and residential)	Instrument Fiscal	Implemented	Federal State, Ministry of Finance national
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and residential) Energy auditing Free energy pre-audits, grants towards the cost of an audit, free consultation service for SMEs and subsidies for energy audits Benchmarking and other voluntary agreements with industry	Instrument Fiscal Economic Grants, environmental	Implemented	Federal State, Ministry of Finance national Regional Energy Administrations regional Regional Energy Administrations
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and residential) Energy auditing Free energy pre-audits, grants towards the cost of an audit, free consultation service for SMEs and subsidies for energy audits Benchmarking and other voluntary agreements with industry Energy efficiency in the industrial sector	Instrument Fiscal Economic Grants, environmental information Voluntary Agreement	Implemented	Federal State, Ministry of Finance national Regional Energy Administrations regional Regional Energy Administrations regional
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and residential) Energy auditing Free energy pre-audits, grants towards the cost of an audit, free consultation service for SMEs and subsidies for energy audits Benchmarking and other voluntary agreements with industry	Instrument Fiscal Economic Grants, environmental information Voluntary	Implemented	Federal State, Ministry of Finance national Regional Energy Administrations regional Regional Energy Administrations
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and residential) Energy auditing Free energy pre-audits, grants towards the cost of an audit, free consultation service for SMEs and subsidies for energy audits Benchmarking and other voluntary agreements with industry Energy efficiency in the industrial sector	Instrument Fiscal Economic Grants, environmental information Voluntary Agreement	Implemented Implemented Implemented	Federal State, Ministry of Finance national Regional Energy Administrations regional Regional Energy Administrations regional
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and residential) Energy auditing Free energy pre-audits, grants towards the cost of an audit, free consultation service for SMEs and subsidies for energy audits Benchmarking and other voluntary agreements with industry Energy efficiency in the industrial sector Sector: Energy Use in Other Sectors	Instrument Fiscal Economic Grants, environmental information Voluntary Agreement Instrument	Implemented Implemented Implemented	Federal State, Ministry of Finance national Regional Energy Administrations regional Regional Energy Administrations regional Implementing Entity Regional Energy
Tax reductions on investments (industrial and residential sector) Improvements in energy efficiency (industry and residential) Energy auditing Free energy pre-audits, grants towards the cost of an audit, free consultation service for SMEs and subsidies for energy audits Benchmarking and other voluntary agreements with industry Energy efficiency in the industrial sector Sector: Energy Use in Other Sectors Subsidies to promote energy efficiency Improve energy efficiency in private companies,	Instrument Fiscal Economic Grants, environmental information Voluntary Agreement Instrument Economic	Implemented Implemented Implemented	Federal State, Ministry of Finance national Regional Energy Administrations regional Regional Energy Administrations regional Implementing Entity Regional Energy Administrations

FCCC/WEB/2002/7 Page 8

Standards of energy efficiency for boilers and water heaters	Regulatory	Implemented	Federal State, Ministry of Social Affairs, Public health and environmental health
Improvement of the energy efficiency of boilers and water heaters			national
Sector: Transport	Instrument	Status	Implementing Entity
Improvements to public transport	Policy Process	Implemented	Regional public transport entities
Increase the provision and improve the quality of public transport	Mixed		regional
Federal Government's rail investment plan	Other	Adopted	Federal State (Min. Communications and Infrastructure) + agreement for State / Region cooperation
Increase the provision and improve the quality of public transport	Planning		national and regional
Tax exemption for employer's contribution to the price of public transport season tickets and car pooling	Fiscal	Adopted	Federal State, Min. of Finance
The use of public transport and car pooling for home / work journeys			national
Improvement of infrastructure for cyclists and pedestrians	Other	Adopted	Regional public transport entities and
Promotion of the use of bicycles and walking for short trips in towns & cities	Information/ Education and oth instruments	Implemented, her adopted	regional and local
Improvement of systems to promote the use of alternative modes of transport	Information/ Education	Adopted	Regional public transport entities and
Modal shift of passenger and goods transport from road towards rail and navigable waterways; creation of multimodal platforms (hubs): rationalisation of the traffic flow and parking for heavy duty vehicles in urban areas	and regulatory (traffic flow and parking space management)	Regulatory component is only planned	regional
Modulation of the size of the European road tax	Fiscal	Implemented	Federal State, Min. of Finance
Promotion of less polluting vehicles			national
LPG Allowance	Information/ Education	Implemented	Federal State, Min. of the Environment
Promotion of less polluting vehicles			national
Promotion of "clean" vehicles	Information/ Education	Implemented	Regions (Cooperation agreement)
Changing the behaviour patterns of consumption			regional
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Adaptation of the VLAREM regulations (N2O catalysts)	Regulatory	Planned	Flemish Region
Limitation of N2O emissions released by the			regional

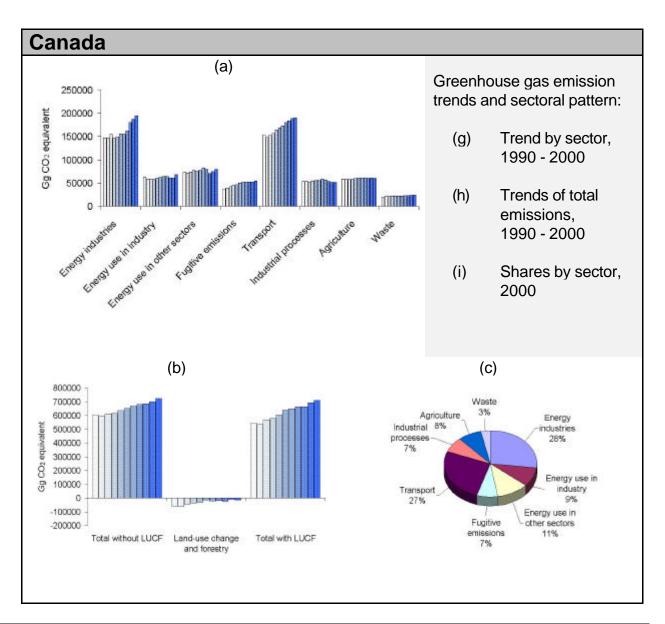
Page 9 FCCC/WEB/2002/7

1	C	• . •	
production	Ωt	nifric	ac1d
production		111111	acia

Regulations aiming to limit the use of fluorinated greenhouse gases	Regulatory	Implemented	Flemish Region
Reduced emissions of fluorinated greenhouse gases			regional
Best Available Technologies Implementation of the IPPC directive	Regulatory	Adopted	Regional Administration regional
Sector agreements	Voluntary Agreement	Adopted	Walloon Region
Reduction of GHG emissions (Chemistry, paper, mining industries, cement)	8	some are only planned	regional
Sector: Agriculture	Instrument	Status	Implementing Entity
Manure Action Plan 2	Regulatory	Adopted	Flemish Region VLM - manure bank
Reduction of agricultural inputs			regional
Reduction in pork rearing	Economic	Implemented	Flemish Region ALT (Agricultural and horticultural administration)
Reduction of agricultural inputs			regional
'Organic Agriculture' action plan	Economic	Planned	Flemish Region ALT (Agricultural and horticultural administration)
10% of farmed land to be "organic" by 2010	and informational		regional
Rural Development Plan (RDP) Improvement of agricultural practices	Economic and informational	Adopted some elements are only planned	Regional Administration regional
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Measure to support reforestation	Economic	Implemented	Federal State, Min. of Agriculture
Reforestation			national
Prohibition of deforestation Preservation of woodland	Regulatory	Implemented	Flemish Region Department of Woods and Countryside regional
Investigation of carbon sequestration Improved knowledge of carbon sinks	Research	Implemented	Walloon Region regional
Sector: Waste	Instrument	Status	Implementing Entity
Ban on dumping biodegradable organic waste To stop organic material going to landfill sites, closure of biologically active landfill sites	Regulatory	Implemented in some regions only planned	Regional Administration regional
Remedial treatment of old landfill sites Recovery of discharged gas	Regulatory	Implemented	Walloon Region regional

Reduction of waste at source	Information/ Education	Implemented	Brussels -Capital Region
To reduce the quantity and harmfulness of waste at source			regional
Recovery of waste	Policy Process	Implemented	Brussels -Capital Region
Waste recovery, prevention	Instrument mix		regional

Page 11 FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Greenhouse Gas Emission Reduction Trading Program is designed to test the effectiveness of emission reduction trading for GHGs in the Canadian context. Buyers and sellers of emission reductions submit documentation on traded projects to a multi-stakeholder committee for review. If the emission reductions satisfy the requirements of the pilot, they are registered and will be eligible for recognition against future compliance obligations.	Economic	Implemented	Government of Canada, Government of Nova Scotia, Government of Saskatchewan, Government of Quebec national/regional
National Fuel-Cell Research and Innovative This initiative involves collaborative industrial research, technology development, demonstration and deployment related to the use of fuel cells for	Research	Implemented	Natural Resources Canada national

alternative energy production.

Program of Energy Research and Development

This fund focuses on the economic and environmental impacts of the non-nuclear energy sector. It supports and complements a wide range of energy science and technology initiatives undertaken by 11 federal departments and agencies in Canada. The program supports the development of a range of environmentally and economically sustainable energy production and end-use technologies.

Policy Process Policy/Research/ Information

Implemented Natural Resources Canada national

Technology Early Action Measures

Provides funding support for early action technology projects to reduce GHG emissions domestically and internationally, while sustaining economic and social development.

Other Technology Development

Demonstration

Implemented Government of Canada

national

Capital Cost Allowance and Related Changes

Encourages investment in certain types of energy-efficient and renewable energy technologies.

Economic

and

Implemented Department of Finance

national

Renewable Energy Market Development Program

Program encourages the use of renewable energy from emerging resources and helps the supply industry take advantage of promising markets. The program also helps industry improve its delivery infrastructure through a variety of activities, including upgrading industry training programs and product standards, and developing software to facilitate feasibility studies and system designs.

Information/ Education

Implemented

Natural Resources Canada

national

Community Energy Management

Includes two broad initiatives that have taken root in the Canadian planning profession. The first of these is a move to change the way in which neighbourhoods, towns, cities and regions are designed. The overarching principle is to create more "livable" environments that improve accessibility to services and employment, preserve green space, reduce pollution and noise, and generally create a safer urban landscape with a greater sense of place and community. The second initiative is the focus on meeting society's energy service needs in ways that minimize energy consumption, with potential economic and environmental benefits. This initiative is directed at choices about energy delivery systems, district heating and cooling, combined heat and power, renewable energy, and building energy and resource efficiency, passive solar design, reduced building heat loss, reduced water consumption and wastewater production.

Economic

Economic Regulatory Information

Implemented

National Climate Change Process municipal

Green Municipal Investment Fund

The Green Municipal Investment Fund will increase municipal access to innovative and cost-effective energy services, such as district energy systems, renewable energy and energy efficiency. The fund provides loans for up to twenty five percent of capital projects that will allow eligible recipients to carry out environmental projects within municipal operations.

Economic

Implemented

Government of Canada Municipalities municipal Page 13 FCCC/WEB/2002/7

The Green Municipal Investment Fund will also address the issue of climate change by supporting projects designed to improve energy efficiency and thus reduce GHG emissions. The Green Municipal Investment Fund, will provide grants, loans and loan guarantees for projects that increase the environmental efficiency and cost-effectiveness of existing municipal water, wastewater, waste, energy and public transportation facilities.

Sector: Energy Industries	Instrument	Status	Implementing Entity
Green Power Procurement Initiative This initiative commits the Government of Canada to displacing purchases of high-carbon electricity with electricity from emerging renewable sources, referred to as "green power". In addition to reducing GHG and other emissions in federal operations, this initiative provides a demand for green power and encourages electric utilities to market this type of power to other customers.	Policy Process Policy	Implemented	Natural Resources Canada, Environment Canada national
Renewable Energy Deployment Initiative This program promotes renewable energy systems for space and water heating, and for cooling through an incentive that funds 25 percent of the cost of adopting new systems (to a maximum of \$50,000). Eligible systems include solar air heating, solar water heating, high efficiency/low emission biomass combustion. Initiative also provides market support for earth energy systems and supports pilot projects in the public institutions and residential markets.	Economic Economic Technology Transfer Information	Implemented	Natural Resources Canada national
Advanced Combustion Technologies Program Program supports the development of pollution-abatement and novel combustion technologies aimed at reducing emissions of acid rain precursors, GHGs, particulates and hazardous substances from stationary power sources fuelled by coal, oil, natural gas or biomass.	Research	Implemented	Natural Resources Canada national
Bio-Fuel Turbine Power Generation Systems The project consists of the development and testing of systems for engine operation on liquid bio-oil fuel. Bio-oil fuels are derived from feedstock such as wood, grasses, wastepaper and agricultural residues. The project will further advance the engine technology by redesigning and refining the combustion system, and developing specifications for a full-scale power generation system.	Research	Implemented	Industry Canada, Orenda Aerospace Corporation
Community Energy Systems Program helps Canadian communities meet their energy needs by identifying and developing opportunities for the use of district heating and cooling, combined heat and power (cogeneration), waste heat recovery, thermal storage and local sources of renewable energy, particularly biomass.	Information/ Education	Implemented	Natural Resources Canada national

Green Power Procurement Initiative

This initiative commits to displacing purchases of high-carbon electricity with electricity from emerging renewable sources, referred to as "green power". In addition to reducing GHG and other emissions in federal operations, this initiative provides a demand for green power and encourages electric utilities to market this type of power to other customers.

Information/ Education

Implemented

Natural Resources Canada, Environment

Canada national

Market Incentive Program

The purpose of this program is to provide incentives to electricity retailers to purchase or produce electricity based on emerging renewable electricity sources from new or expanded generating capacity, or to promote the sales of electricity from emerging renewable energy sources.

Fiscal

Implemented

Natural Resources Canada

national

Renewable Energy and Hybrid Systems for Remote Communities

Program accelerates the deployment of renewable energy technologies to more than 300 remote communities that are not connected to the main electricity grid or natural gas networks.

Other

Technology Transfer

Implemented Natural Resources Canada

national

Renewable Energy Technologies Program

Program supports efforts to develop and commercialize advanced renewable energy technologies that can serve as cost-effective and environmentally responsible alternatives to conventional energy generation. The program supports the development of technologies - including active solar, wind energy, small hydro (less than 20 megawatts) and biomass.

Research

Implemented

Natural Resources Canada

national

Tax Incentive for Renewable Energy and Energy Efficiency

Improved access to financing for renewable energy and energy efficiency by relaxing the "specified energy property" rules, and expanding the eligibility for flow-through shares to include pre-production costs pertaining to eligible investments in the renewable energy industry. The specified energy property rules were relaxed to allow manufacturing and processing, and mining, companies undertaking energy efficiency and renewable energy investments to claim the accelerated tax write-offs association with these investments against income from all sources.

Fiscal

Implemented

Department of Finance

national

Renewable Energy and Hybrid Systems Program

Program focuses on the development, implementation and promotion of photovoltaic technologies for domestic and international markets.

Research

Implemented

Natural Resources Canada

national

Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
Canadian Industry Program for Energy	Voluntary	Implemented	Natural Resources Canada
Conservation (CIPEC)	Agreement	•	

Page 15 FCCC/WEB/2002/7

The Canadian Industry Program for Energy Conservation (CIPEC) helps industrial task forces set and achieve targets for improving energy intensity in their sectors. CIPEC's 21 voluntary sector task forces determine the potential for energy-efficiency improvements within their sector, establish a means of reporting and tracking progress, and create action plans for reaching targets. They also provide a forum for identifying common needs in such areas as energy-management planning, technical information, financing, training and employee awareness. The Office of Energy Efficiency of Natural Resources Canada then works with the task forces to develop appropriate services to satisfy these needs.

national

Industrial Energy Efficiency Initiative

The Industrial Energy Efficiency Initiative is a voluntary industry-government alliance that recognizes that improving energy efficiency can help Canadian industry stay competitive and help protect the environment. Also assists the manufacturing and metal/non-metal mining industries identify energy efficiency potential, establish energy efficiency improvement targets, implement and manage programs, report on progress and celebrate

pumps. Oil-fired furnaces will soon be added to the

Voluntary Agreement

Implemented

Natural Resources Canada

national

Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Building Heat Management Research Program The purpose of this program is to develop and disseminate knowledge and technology that will contribute to a reduction in GHG and other emissions through improvements in buildings energy efficiency, and help build the energy efficiency industry in order to capture growing domestic and international markets.	Research / Research / Information	Implemented	Natural Resources Canada national
Commercial Buildings Incentive Program This program provides financial incentives to encourage building owners to incorporate energy-efficient technologies and practices in designs for new commercial and institutional buildings.	Economic Economic / Information	Implemented	Natural Resources Canada national
EnerGuide for Houses The program encourages Canadians to improve the energy performance of their houses. Homeowners receive advice from independent energy efficiency experts on how to improve home comfort and reduce heating and cooling costs when making home improvements.	Information/ Education	Implemented	Natural Resources Canada national
Heating, Ventilation and Air Conditioning Energy Efficiency Rating System This program provides consumers with energy-efficiency ratings for gas and propane furnaces, central air conditioning equipment and air-to-air heat	Information/ Education Information Technology Transfer	Implemented	Natural Resources Canada national

rating system. Ratings are published at the back of manufacturers' brochures in order to provide consumers with the information needed to purchase energy-efficient home heating and air conditioning products. This program is operated in association with the Heating, Refrigeration and Air Conditioning Institute, which provides contractors with the tools to promote the sale of more energy-efficient equipment.

Model National Energy Code for Buildings and Houses

This program aims to increase the energy efficiency of new Canadian houses and buildings by specifying minimum energy requirements, supporting the implementation and adoption of these model national energy codes by relevant authorities having jurisdiction for buildings and houses, and monitoring and analyzing the impact of such codes.

Accelerated Standards Action Program

This program builds on performance standards that are prescribed under the Energy Efficiency Act. The minimum standards are estimated to have accounted for over 10 Mt of annual aggregate emissions reductions in the year 2000.

EnerGuide for Equipment

Program ensures that new major household appliances and room air conditioners comply with the Energy Efficiency Act and show a yearly energy consumption rating (major household appliances) or an energy-efficiency ratio (air conditioners). All ratings are based on standard test procedures. Labeling helps consumers obtain consistent and reliable information on energy performance.

Model National Energy Code

Aims to increase the energy efficiency of new Canadian houses and buildings by specifying minimum energy requirements. This program supports the implementation and adoption of these model national energy codes by relevant authorities who have jurisdiction for buildings and houses. This program also monitors and analyses the impact of such codes.

Policy Process Implemented

Policy national

Policy Process Implemented

Natural Resources Canada Policy national

Regulatory Implemented

Natural Resources Canada national

Natural Resources Canada

Natural Resources Canada Implemented

national

Sector: Fugitive Emissions Instrument **Status Implementing Entity Tax Incentive for Flare Gas Generation** Fiscal Department of Finance **Implemented** national

Regulatory

Made generating equipment fuelled by flare gas at oil fields eligible for a higher capital cost allowance under federal tax regulations. This helps to reduce GHG greenhouse gas emissions in the oil and gas industry due to a more controlled combustion process, as well as through the displacement of coal-fired electricity generation.

Page 17 FCCC/WEB/2002/7

Sector: Transport	Instrument	Status	Implementing Entity
Alternative and Future Transportation Fuels Encourages the development, production and use of alternative and future vehicle and fuels technologies. The focus is on a number of fuels, including propane, natural gas, and alcohols, as well as on electricity and hydrogen. The program provides support to fleet operators in the public and private sectors through economic and market studies, emissions and safety assessments; market demonstration, communications and awareness activities, and general and technical information about fuel options.	Information/ Education Information Education	Implemented	Natural Resources Canada municipal
Auto \$mart Program Promotes energy-efficient practices among Canadian motorists through publications, events, joint projects and a Student Driver Kit available to driver trainers across Canada. Motorists also receive helpful tips on buying, driving and maintaining their vehicles to reduce fuel consumption and GHG emissions.	Information/ Education Information Education	Implemented	Natural Resources Canada municipal
EnerGuide for Vehicles The program provides prospective new-vehicle buyers with information on energy consumption and costs to enable them to compare and purchase the most fuel-efficient vehicle that meets their needs. Includes information on all new vehicles sold, a complete listing of fuel consumption information for all new vehicles, and identifies the most fuel-efficient vehicles in different categories.	Information/ Education Information Education	Implemented	Natural Resources Canada municipal
Excise Tax Exemption for Ethanol and Methanol The federal government's Excise Tax Exemption for Ethanol and Methanol Program provides a 100% exemption from the ten cent per litre excise tax on gasoline for ethanol and methanol made from biomass that is blended with gasoline.	Economic	Implemented	Natural Resources Canada, Finance Canada municipal
FleetSmart Helps fleet managers reduce fuel costs and vehicle emissions through energy-efficient practices. The program develops energy-use data and profiles for fleet segments and provides a range of products such as an energy management tool kit, success stories and case studies that identify best practices, and training initiatives.	Information/ Education Information Education	Implemented	Natural Resources Canada municipal
Intelligent Transportation System (ITS) This Plan sets out the federal government's strategy for stimulating the development and deployment of these systems across urban and rural Canada. The goals are to maximize the use and efficiency of existing	Information/ Education	Implemented	Transport Canada municipal

infrastructure and meet future mobility needs more responsibly. The ITS Plan provides leadership and support to advance the application and compatibility of ITS technologies to make Canada's multimodal ground transportation system safe, integrated, efficient and sustainable.

Moving On Sustainable Transportation

Supports projects that produce the kinds of education, awareness and analytical tools Canada needs if we are to make sustainable transportation a reality. Program provides funding to help support projects that will provide practical information and tools to better understand sustainable transportation needs; encourage the creation of innovative ways to promote sustainable transportation; and achieve quantifiable environmental and sustainable development benefits.

Information/

Information

Education

Education

Implemented

Transport Canada

municipal

National Biomass Ethanol Program

In December 1994, the federal government reiterated its support for the production and use of fuel ethanol by announcing the National Biomass Ethanol Program. This program introduced a \$70-million, government-guaranteed line of credit that will make it easier for manufacturers to obtain private sector financing for ethanol plants, and will also provide a means of rescheduling their long-term debt in the event of financial difficulties. The line of credit is intended to assist ethanol manufacturers should a future government change the excise tax on fuel ethanol.

Economic

Implemented

Natural Resources Canada, Finance Canada municipal

Transportation Energy Technologies Program

Transportation Energy Technologies Program (TETP) supports efforts by Canadian industry to develop and deploy technologies and fuels that provide a cleaner, more sustainable energy mix for our roadways. TETP assists industry in responding to a growing worldwide demand for more environmentally responsible transportation alternatives, while enhancing Canada's competitive edge in the changing transportation marketplace. Key activities include the development of electric vehicles and hybrids, fuel cells and alternative transportation fuels, including natural gas, propane, ethanol, methanol, and hydrogen.

Regulatory

Implemented

Natural Resources Canada *municipal*

Vehicle Fuel Efficiency Program

Program promotes improvements in vehicle fuel efficiency by encouraging motor vehicle manufacturers to meet voluntary annual company average fuel consumption targets for new automobiles. Working with vehicle, this initiative focuses on opportunities to improve vehicle fuel technology and provide information to consumers on the fuel efficiency of vehicles.

Voluntary Agreement

Implemented

Natural Resources Canada

municipal

Page 19 FCCC/WEB/2002/7

Sector: Industrial Processes	Instrument	Status	Implementing Entity
Advanced Combustion Technologies Program The program supports the development of pollution-abatement and novel combustion technologies aimed at reducing emissions of acid rain precursors, GHGs, particulates and hazardous substances from stationary power sources fuelled by coal, oil, natural gas or biomass.	Research	Implemented	Natural Resources Canada national
Bio-Fuel Turbine Power Generation Systems The project consists of the development and testing of systems for engine operation on liquid bio-oil fuel. Bio-oil fuels are derived from feedstock such as wood, grasses, wastepaper and agricultural residues. The project will further advance engine technology by redesigning and refining the combustion system, and developing specifications for a full-scale power generation system.	Research	Planned	Industry Canada national
Canadian Lightweight Materials Research Initiative works to strengthen and coordinate research and development for lightweight and high-strength materials for vehicle applications. It addresses fundamental materials issues in alloy design and thermo mechanical processing, and in manufacturing processing, to improve the performance or reduce the cost of implementing lightweight materials to reduce vehicle weight in order to achieve greater energy efficiency. The technologies developed can also significantly improve the performance of vehicles powered by fuel cells, electric batteries or hybrid systems. The materials considered include manganese, aluminum, high-strength steel, metal matrix composites, plastics and polymer-based composites.	Research	Implemented	Natural Resources Canada national
Ethanol From Biomass The project consists of the development and demonstration of a cost-effective process for the production of ethanol from a wide variety of biomass, including farm waste products such as straw and oat hulls.	Research	Planned	Industry Canada national
Sector: Agriculture	Instrument	Status	Implementing Entity
Agricultural Environmental Stewardship Addresses the impacts of agricultural practices on water, soil and air quality, biodiversity and GHG emissions.	Information/ Education	Implemented	Agriculture and Agri-Food Canada national
Permanent Cover Program The primary objective is to reduce soil degradation on environmentally sensitive lands that have high erosion risk under annual cultivation. Marginal lands were targeted for conversion to alternative sustainable uses under permanent cover.	Voluntary Agreement	Implemented	Prairie Farm Rehabilitation Administration

under permanent cover.

Shelterbelt Program

A permanent program for the distribution of seedlings to farmers and Conservation Boards for planting shelterbelts or for conservation and land reclamation projects. This program includes a research component (tree improvement, agro-forestry and carbon sequestration) and a communications component. Direct results from this program include the creation of wildlife habitat, conservation of soil, sequestration of carbon, significant energy reductions in farmsteads, management of snow and stabilization of crops.

Voluntary Agreement Voluntary / Research Implemented

Prairie Farm Rehabilitation Administration

Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Afforestation Program Development Initiative Planning and designing afforestation program in Canada, including cost-shared pilots with provinces/territories. This is a preparatory action to carry out program development work that may lead to a larger scale Phase Two national afforestation	Policy Process Policy	Implemented	Natural Resources Canada national
Energy for the Forest Program funds research relating to biomass energy production. The program seeks to advance the understanding of the role of biomass production in the global carbon cycle.	Research	Implemented	Natural Resources Canada national
Fire Protection - Adaptation Responses to Climate Change Project in place, as part of its climate change research program, focused on improving our fire and insect prediction capabilities and devising improved options and strategies to adapt to and respond to future fire conditions.	Research	Implemented	Natural Resources Canada national

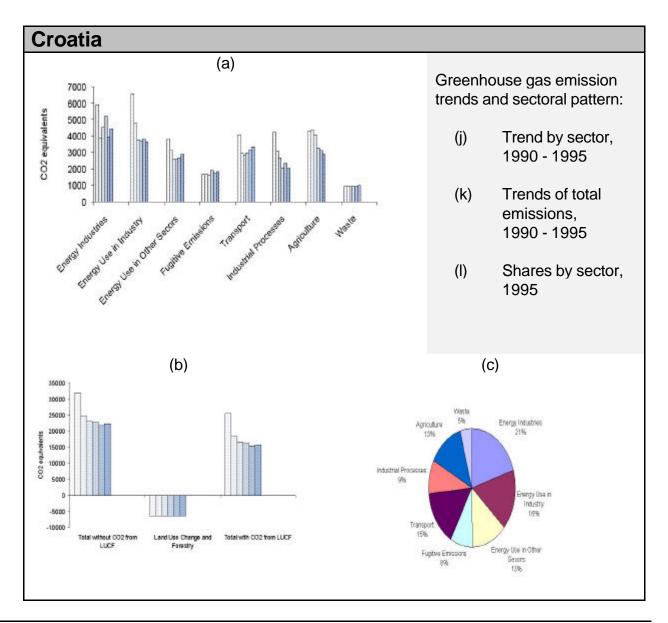
Sector: Waste	Instrument	Status	Implementing Entity
Landfill Gas Capture	Economic	Implemented	National Climate Change Process
An increasing number of Canadian municipalities are	Economic		municipal
implementing landfill gas recovery. In addition to	Regulatory		
eliminating the risks related to landfill gas emissions,			
the gas can often be used or sold for its energy content.			
The 1.2 million tonnes of CH4 currently generated at Canadian landfills has the equivalent energy of 9			
million barrels of oil or enough energy to heat more			
than 600,000 homes annually. About 25% of the			
landfill gas being emitted by Canadian landfills is being			
captured, and of that about 70% of the gas is utilized			
and the remaining 30% is flared. The majority of the			
gas is used for electricity generation. Other applications			
range from simply heating buildings, to providing fuel			
for a gypsum manufacturing plant, a cement plant and a recycling plant.			
recycling plant.			
Enhanced Anaerobic Digestion of Municipal Solid Waste with Energy Recovery	Research	Implemented	Industry Canada
The project consists of the development and			municipal

FCCC/WEB/2002/7

demonstration of SUBBOR, an innovative approach to the treatment of the non-recyclable biomass components of municipal solid waste (MSW). The project will involve modified anaerobic digestion (a two-step process) followed by power generation and stabilization of the solid residue for use.

Sector: Cross-Sectoral	Instrument	Status	Implementing Entity
Research and Development for Innovative GHG Reduction Technologies	Fiscal	Implemented	Government of Canada
This initiative will provide funding to support the research, development and demonstration of eleven separate climate change technology projects by federal departments and research organizations. Projects include oxygen-fired combustion, advance power cycles, microturbines in distributed power systems, CO2 sequestration in oil sand tailings and gas hydrates, cogeneration from agricultural and municipal wastes, energy efficiency improvements in multi-phase flow, clean combustion of flare gas, gas from biosolids for fuel cells, and power from landfill gas.	Fiscal Research		municipal
Action Plan 2000 on Climate Change The Action Plan 2000 on Climate Change, the Government of Canada's contribution to the First National Business Plan, will achieve a significant reduction in CO2 emissions. This \$ 500 million undertaking will address CO2 emissions in a wide array of sectors including, transportation, electricity, CO2 capture and storage, buildings, agriculture, forestry, minerals and metals, industry.	Policy Process Economic Research Information Education	Implemented	Government of Canada municipal
Climate Change Action (CCAF) Fund Extension The Climate Change Action Fund Extension was announced as a \$150 million, three-year initiative over the 1998/99-2000/01 period. It funds economic and policy analysis requested as well as federal policy coordination and early action to reduce emissions. The primary objectives of the CCAF were to demonstrate the federal government's commitment to ensuring that Canada meets its climate change obligations and to help lay the groundwork for a National Implementation Strategy on Climate Change, developed in concert with the provinces and territories, industry and other stakeholders.	Policy Process Economic Research Information Education	Implemented	Government of Canada municipal
Development of a National Implementation Strategy on Climate Change	Policy Process	Implemented	Government of Canada
A national implementation strategy to meet Canada's obligations under the Kyoto Protocol. Sixteen Issues Tables, involving some 450 experts from multiple perspectives, examined the costs, impacts, and benefits of implementing the Kyoto Protocol and the options open to Canada in developing a climate change strategy. Their work has been the foundation for the development of the National Implementation Strategy and the First Business Plan of measures to implement the strategy.	Policy Other		municipal

FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Restructuring of energy sector and privatization of the national electricity and of oil companies (HEP and INA)	Regulatory	Adopted	Energy supply companies, power utility, state oil company, Croatian National Electricity and Ina Oil Company
Removes market imperfections and introduces market prices for energy. Provides incentives for energy efficiency and faster penetration of natural gas. Privatization of Croatian National Electricity and Ina Oil Company.	economic	Restructuring: The five energy laws were adopted in July 2001. Privatization: The two laws were under consideration in 2002.	national and private sector

Page 23 FCCC/WEB/2002/7

Fund for Energy Efficiency and Environment Protection Supports implementation of energy efficiency and	Economic	Planned Draft law was	Ministry for Economy and Ministry for Environmental Protection and Physical national
renewable energy		submitted to the Parliament in 2002.	
Croatian National Energy Programmes	Research	Implemented	Ministry for Economy, Energy Institute Hrvoje Požar
Promotes energy efficiency and renewable energy	Research and Development	Since 1998	national
Sector: Energy Industries	Instrument	Status	Implementing Entity
Subsidies for Renewable Energy Promotes the use of renewable energy and enhances its	Economic	Planned	National Energy Regulator, Power producer, power transmission companies national and private
market penetration			sector
Croatian Renewable Project Introducing new renewable energy: small hydro, bioenergy, wind power	Other	Planned WB/GEF project under preparation	Coordinated by the HEP national
Commissioning of combined cycle power plant Increases the share of natural gas and promotes its efficient use	Other	Implemented One unit was commissioned in 2001 and second one was under construction in 2002	HEP national
Upgrading of Nuclear Power Energy Production	Other	Implemented	HEP and Slovenian National Electricity Company
Increases production of nuclear energy by upgrading power of Nuclear Power Plant Krško with installation of new steam generators		Finished in year 2001	national
Extension of the natural gas network in Northern Croatia and gas exploration in Southern Croatia	Other	Implemented	INA Oil Company and gas distribution companies
Increases natural gas consumption in residential and service sectors. Nearly all North Croatia is connected to natural gas network; project documentation completed, decision is expected. Development of gas system network in South Croatia			national and private sector
Promoting small hydro and wind power by independent producer Encourages energy production from small hydro and wind power capacities by independent producers. A pilot project was launched and power purchase	Economic	Implemented	Croatian National Electricity national

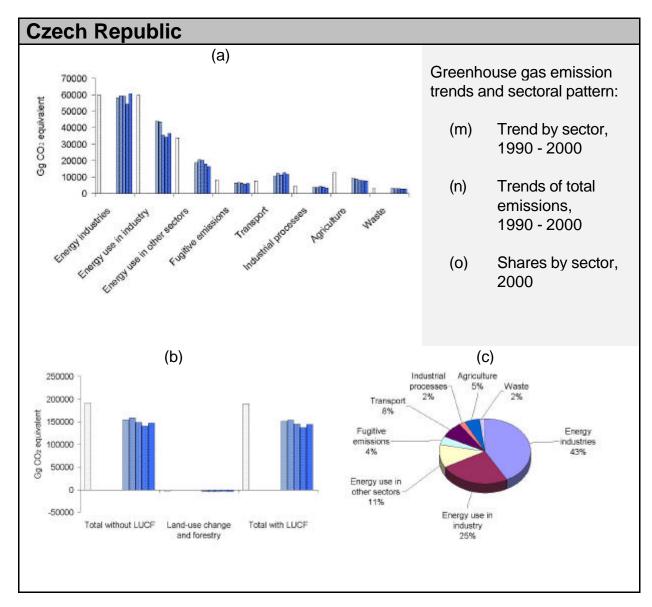
agreement is made for one wind power facility

agreement is made for one wind power facility Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Standards and labeling for energy efficiency	Regulatory	Planned	Manufacturer of appliances, building works companies
Promotes energy efficiency in buildings, service sector and households		Respective law was under preparation in 2002.	private sector
Energy Efficiency Services	Other	Adopted	Croatian National Electricity and different consumers in public sector
Introduces energy servicing companies (ESCO) to promote energy efficiency improvements in industry and public sector.		WB/GEF project approved (15 mil. USD) to be started in the end of year 2002	national
Removing barriers to energy efficiency in residential and service sector	Economic	Adopted	Residential sector, hotels and other consumers in service sector
Introduces specific efficient appliance, compact fluorescent lightening (CFL) in residential sector and supports ESCO operation in hotels and other services		UNDP/GEF project approved (12 mil. USD) to start with implementation at the end of year 2002	national
Sector: Agriculture	Instrument	Status	Implementing Entity
Environmentally appropriate farming practices	Voluntary Agreement	Planned	Ministry of Agriculture and Forestry
Organic Agriculture and Good Agricultural Practice to improve management of nitrogen		scientific project, field testing	national
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Reforestation of productive bare forest land	Economic	Planned	Ministry of Agriculture and Forestry and Croatian Forests
Establishes energy forests and pioneer coniferous and deciduous woodland		Planting could be completed by 2020	national
Improved forest management	Regulatory	Planned	Ministry of Agriculture and Forestry and Croatian Forests
Improves thinning practices to increase productivity and carbon stocks			national
Reforestation degraded woodland areas	Economic	Planned	Ministry of Agriculture and Forestry and Croatian Forests
Increases forest area by 20,000 ha		Planting could be completed by	national

Page 25 FCCC/WEB/2002/7

Sector: Cross-Sectoral	Instrument	Status	Implementing Entity
Environmental Impact Assessment	Regulatory	Implemented	Ministry for Environmental Protection and Physical
Examines new industrial projects with respect to Croatia's commitments under international treaties.		Updated by law on EIS, firstly issued in 1986, updated in year 2001	national
Control of Air Pollution Reduces emissions of classical air pollutants with a positive side effect for GHG reduction. By law on emission standard adopted in 1996. Heat losses limitation for small boilers	Regulatory	Implemented	-

FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
New Energy Act	Regulatory	Implemented	Ministry of Industry and Trade and the Energy Regulation Authority
Harmonization of CZE legislation with EU legislation	legislative		national
The Act on energy management	Regulatory	Implemented	Ministry of Industry and Trade
Harmonization of CZE legislation with EU legislation	legislative		national
State program of support for energy savings and use of renewable energy sources	Economic	Implemented	Czech Energy Agency (Part A); State Environmental Fund (Part B)
Decreasing the energy intensity of the economy, energy savings in production, reduction of both ambient air pollutant and greenhouse gas emissions			national

Page 27 FCCC/WEB/2002/7

Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
GEF Efficient lighting initiative	Economic	Implemented	GEF; SEVEn (local coordinator)
Decreasing emissions of GHG through accelerated introduction of energy-efficient lighting technology			
Sector: Transport	Instrument	Status	Implementing Entity
Set of measures in the transport sector	Regulatory	Implemented	Ministry of Transport and Communications in cooperation with other sectors
Emission reductions	legislative, economic, fiscal, information		national
Support for the production of alternative motor Non-foodstuff use of domestic agricultural production	Economic	Implemented	Ministry of Agriculture national
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Introduction of Directive 96/61/EC concerning Integrated Pollution Prevention and Control	Other	Adopted	MoE, Ministry of Industry and Trade
Harmonization of CZE legislation with EU legislation	legislative		national
Sector: Agriculture	Instrument	Status	Implementing Entity
Support for afforestation of unused agricultural areas	Economic	Implemented	Ministry of Agriculture
More rational use of agricultural land			national
Sector: Waste	Instrument	Status	Implementing Entity
Draft Act on waste and Draft Act on packaging	Other	Adopted	MoE, Ministry of Industry and Trade
Harmonization of the CZE legislation with EU legislation	legislative		national
Utilization of landfill gas and biogas from waste water treatment plants	Other	Implemented	Operators of landfill sites and waste water treatment plants
Decreasing emissions of methane from landfill sites and waste water treatment plants	technical		treatment plants
Sector: Cross-Sectoral	Instrument	Status	Implementing Entity
Strategy for the protection of the climate system of the Earth in the Czech Republic	Policy Process	Implemented	Government of CZE and entrusted Ministries
Provisions for meeting commitments under the Kyoto Protocol	framework		national
Preparation of the new Clean Air Act	Regulatory	Other	MoE and other bodies of the state administration in the area of air
Harmonization of CZE legislation with EU legislation	legislative	prepared	national
Support from the State Environmental Fund for	Economic	Implemented	State Environmental

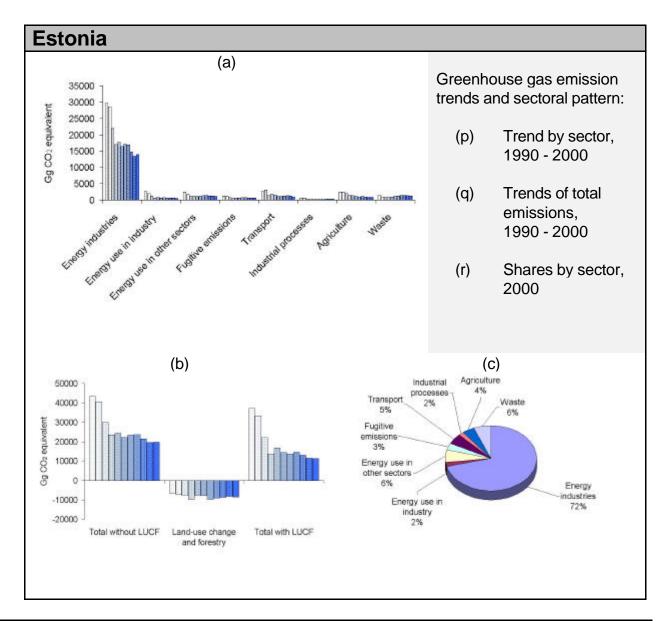
Air Quality Management

Decreasing ambient air pollutant emissions

national

Sector: Other	Instrument	Status	Implementing Entity
Supporting programme for reconstruction and recovery of concrete panel buildings	Economic	Implemented	Ministry for Regional Development
Repair and reconstruction of concrete panel buildings			national

Page 29 FCCC/WEB/2002/7



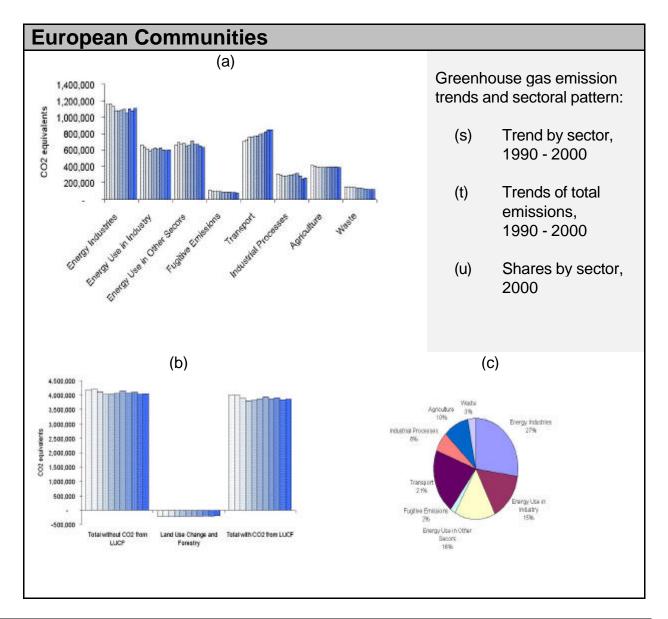
Sector: Energy	Instrument	Status	Implementing Entity
Long-term National Development Plan for the Fuel and Energy Sector	Regulatory	Planned	MoEA
Reduction of emissions; energy efficiency		Ongoing	national
National Energy Conservation Programme Reduction of emissions	Regulatory	Planned Ongoing	MoEA national
Local energy planning	Regulatory	Other ongoing	national
Implementation of EU SAVE Directive Energy auditing and certification	Regulatory Regulatory /voluntary,	Planned	MoEA national
National Energy Conservation Programme Reduction of emission	Regulatory	Planned ongoing	MoEA national

Sector: Energy Industries	Instrument	Status	Implementing Entity
Fuel switch from coal	Voluntary Agreement	Implemented	Utilities
Reduction of emissions	8		national
Renovation of Narva Power Plants	Voluntary Agreement	Planned	Eesti Energia, MoEA
	S		national
Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
Boiler conversion programme	Voluntary Agreement	Implemented	national
Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Renovation of district heating systems	Voluntary Agreement	Other	
	Ü	ongoing	national
Revised Building Code	Regulatory	Implemented	n ari en el
			national
Renovation of apartment houses	Voluntary Agreement	Other	
	1 Igreement	ongoing	national
Labeling of household appliances	Regulatory	Planned	MoEA
		ongoing	national
Sector: Transport	Instrument	Status	Implementing Entity
Quality requirements for liquid fuels Reduction of emissions	Regulatory	Implemented	MoeA; EMI national
Heavy Goods Vehicle Tax Act	Regulatory	Implemented	MoF
Reduction of emissions			national
Development Plan for the Transport Sector for 1999-2006	Regulatory	Implemented	МоТ
Reduction of emissions			national
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Pollution Charge Act	Regulatory	Implemented	MoF
Reduction of emissions	Regulatory	тиристенс	national
Sector: Agriculture	Instrument	Status	Implementing Entity
Organic Farming Act	Information/ Education	Implemented	Ministry of Agriculture
Environmentally sustainable agriculture	Linked to voluntary Organic certification process		National

Page 31 FCCC/WEB/2002/7

Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Estonian National Environment Strategy	Regulatory	Implemented	MoE
Improving forest growth	Ç ,	•	national
Estonian Forestry Strategy	Regulatory	Planned	MoE
Improving forest growth		ongoing	national
Forest Act	Regulatory	Implemented	MoE
Improving forest growth			national
Restoration of Mining Areas	Regulatory	Implemented	MoE
Improving forest growth			national
Sector: Waste	Instrument	Status	Implementing Entity
Estonian National Environmental Strategy	Regulatory	Planned	All ministries
Reduction of emissions		ongoing	national
Environmental Impact Assessment and Environmental Auditing Act	Regulatory	Planned	МоЕ
Reduction of emissions		ongoing	national
Requirements to Establishing, Using and Closing of Landfills	Regulatory	Planned	MoE
Reduction of emissions		ongoing	national
Sector: Cross-Sectoral	Instrument	Status	Implementing Entity
Estonian National Environmental Strategy	Regulatory	Planned	All Ministries
Reduction of emissions	110guiutoi j	Ongoing	national
Sector: Other	Instrument	Status	Implementing Entity
National Programme for Reduction of Pullutant Emissions from Large Combustion Plants (for 1999-2003)	Regulatory	Planned	MoEA
Reduction of emissions		Ongoing (up to 2003)	national
Emission standards of pollutants into ambient air by large combustion plants	Regulatory	Implemented	MoE; MoEA
Reduction of emissions			national

FCCC/WEB/2002/7



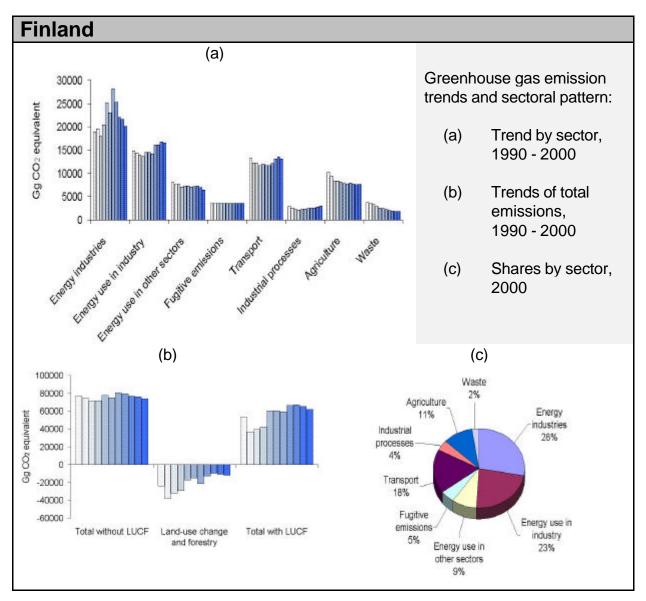
Sector: Energy	Instrument	Status	Implementing Entity
Programme - SAVE I and II	Information/ Education	Implemented	European Commission
Improving end-use energy efficiency	Dissemination programme		supranational
Sector: Energy Industries	Instrument	Status	Implementing Entity
CO ₂ capture and sequestration Promotion of further technological efforts	Research RTD (Pilot project)	Implemented	EU supranational
Programme - CARNOT	Research	Implemented	EU
Technological actions to promote the clean and efficient use of solid fuels.	RTD	1998-2002	supranational

Page 33 FCCC/WEB/2002/7

Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
Programme - ALTENER	Research	Implemented	EU
Non-technical programme to promote use of RES	RTD	1998-2002	supranational
Industrial Energy Efficiency Action Plan	Policy Process	Planned	European Commission, Member States, nat. agencies, industry
Long-term agreements, audits, information dissemination, technology procurement and innovative financing schemes	Pilot action 2000-2001		supranational/national/ private
Industrial Processes: Long term agreements with energy intensive industries, · Comprehensive energy audit and management scheme (E2MAS), · Adapting existing IPPC Directive, · active energy services for SMEs	Regulatory	Planned	EU/Member States
Renew old and inefficient production plants for energy intensive industries Energy efficiency in non-core areas of industry and SMEs	Agreements and regulation	Proposed: 2001-02, 2001-03, 2002	supranational/national
Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Agreement with lamp manufacturers to increase sales of compact fluorescent lamps (CFLs) by	Voluntary Agreement	Adopted	Manufacturers
To promote sales of energy efficient CFLs	Negotiated agreement		private
Energy Star Programme and Code of Conduct for Digital TV Services	Voluntary Agreement	Adopted	Manufacturers
To reduce energy consumption of information and communication technology			private
Negotiated agreements stand-by losses televisions / video recorders; washing machines	Voluntary Agreement	Implemented	Manufacturers
Reduce stand-by losses and increase minimum standards	Negotiated Agreement		private
Sector: Transport	Instrument	Status	Implementing Entity
Motor challenge programme To achieve system optimization in motor driven processes	Research Research and Development	Planned	EU supranational
Environmental Agreement with car industry on reductions of CO_2 emissions from Light Commercial Vehicles	Voluntary Agreement	Planned	EU/ Manufacturing industry
Reduce average CO ₂ emissions of light vehicles		under preparation	supranational/private
Voluntary agreements with European, Japanese and Korean car manufacturers	Voluntary Agreement	Implemented	European Commission + car manufacturers' associations
Reduce average CO_2 emissions of newly sold cars to 140 g/km until 2008/2009 (25 % reduction compared to levels in the mid-90s)			supranational/private

Sector: Industrial Processes	Instrument	Status	Implementing Entity
Framework directive for improved containment of Fluorinated gases; Links to other EU legislation (IPPC, WEEE, End of life vehicles); Voluntary agreements; Development of alternative fluids and Not in Kind technologies; Sector specific recommendations	Regulatory	Planned	EU/Member States
Improve monitoring and verification, improve containment and apply marketing and use restrictions	Regulation and agreements	Proposed for 2002, 2001-02; 2002; 2002	supranational/national
Sector: Agriculture	Instrument	Status	Implementing Entity
Economic Evaluation of Emission Reductions To determine the least cost contribution of gases and sectors to the ECs quantitative KP targets.	Research	Implemented	EC supranational
$\label{eq:Nitrates Directive} \textbf{Reduce use of inorganic nitrate fertilizers to protect} \\ \textbf{aquatic ecosystems and reduce pollution. Considerable} \\ \textbf{co-benefits in the reduction of N_2O and promotion of sustainable agricultural practices} \\ \\ \textbf{Nation 1} \\ \textbf{Nation 2} \\ \textbf{Nation 3} \\ \textbf{Nation 3} \\ \textbf{Nation 3} \\ \textbf{Nation 4} \\ \textbf{Nation 3} \\ \textbf{Nation 4} \\ \textbf{Nation 5} \\ \textbf{Nation 5} \\ \textbf{Nation 6} \\ Nat$	Regulatory	Implemented	EC supranational
Common Agricultural Policy (Rural Development Policy) Improve competitiveness of agriculture and forestry sectors in rural areas whilst protecting the	Regulatory	Implemented ongoing	Member States and Accession States supranational
Common Agricultural Policies (CAP) (market policies)	Regulatory	Implemented	EC
Agenda 2000 - Sustainable agriculture			supranational
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Forestry strategy Sustainable forestry	Regulatory	Implemented	EC supranational
Other forestry measures Prevention of damage to forests	Regulatory	Implemented	EC supranational
Sector: Waste	Instrument	Status	Implementing Entity
Landfill Directive Reduce amount of waste to landfill sites; recovery of landfill gas	Regulatory Implementation by Member States can involve other instrument types as well	Implemented To be implemented by Member States 2000/1	Member states national

Page 35 FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Electricity Market Act	Regulatory	Adopted	Ministry of Trade and Industry
To increase competition		Came into force in 1995, modified in 1997 (small consumers included)	National
Energy taxation To reduce energy consumption and to improve competitiveness of renewables	Fiscal	Adopted Several changes in tax structure in 1990s. Latest change in 1998. Revisions have raised taxes and introduced subsidies on	Ministry of Finance National

renewables

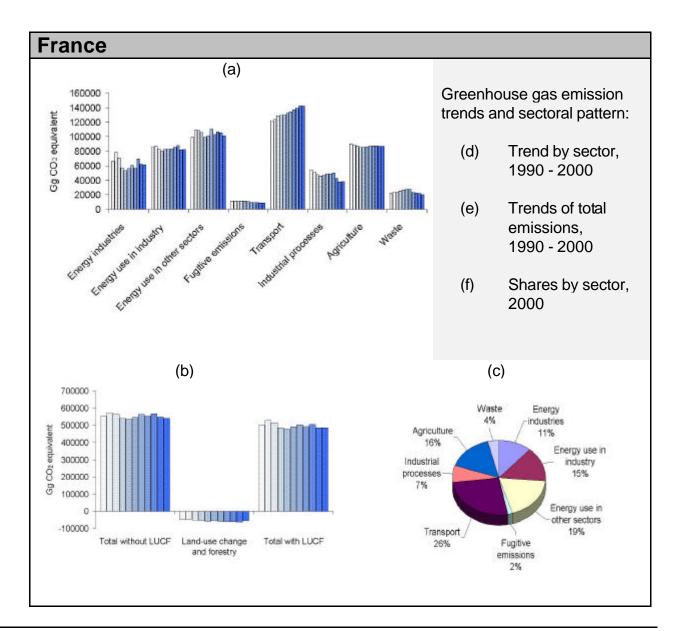
Energy Conservation Programme	Other	Adopted	Ministry of Trade and Industry, Motiva Oy
To reduce energy consumption	Technical, information, education	Adopted in 1995	National
Voluntary agreement on energy conservation and energy auditing	Voluntary Agreement	Adopted	Ministry of Trade and Industry, Motiva Oy, industry, municipalities
Agreements on monitoring, conservation plans, energy audits, energy investment, new technology		Voluntary agreements since 1997	National
Energy and climate technology R&D	Research	Adopted	Ministry of Trade and Industry, TEKES
To reduce CO ₂ emissions	Technical	Continuous	National
Revised energy Conservation Programme	Other	Planned	Ministry of Trade and Industry, Motiva, Ministry of Finance, Ministry of the Environment
To reduce energy consumption	Technical, information, education, fiscal	New Energy Conservation Programme proposed in 2000	National
Sector: Energy Industries	Instrument	Status	Implementing Entity
Sector: Energy Industries Action plan for renewable energy	Other	Adopted	Ministry of Trade and Industry
			Ministry of Trade and
Action plan for renewable energy	Other Fiscal, technical, information, education,	Adopted Several programmes in 1990s, important aspect in 1997 Finnish	Ministry of Trade and Industry National Ministry of Trade and
Action plan for renewable energy To reduce CO ₂ and non-GHG emissions	Other Fiscal, technical, information, education, economic	Adopted Several programmes in 1990s, important aspect in 1997 Finnish Energy Strategy Adopted	Ministry of Trade and Industry National
Action plan for renewable energy $To \ reduce \ CO_2 \ and \ non\text{-}GHG \ emissions}$ New action plan for renewable energy	Other Fiscal, technical, information, education, economic Other Fiscal, technical, information, education,	Adopted Several programmes in 1990s, important aspect in 1997 Finnish Energy Strategy Adopted	Ministry of Trade and Industry National Ministry of Trade and Industry National Ministry of Trade and
Action plan for renewable energy To reduce CO ₂ and non-GHG emissions New action plan for renewable energy To reduce CO ₂ and non-GHG emissions	Other Fiscal, technical, information, education, economic Other Fiscal, technical, information, education, economic	Adopted Several programmes in 1990s, important aspect in 1997 Finnish Energy Strategy Adopted Accepted in	Ministry of Trade and Industry National Ministry of Trade and Industry National
Action plan for renewable energy To reduce CO_2 and non-GHG emissions New action plan for renewable energy To reduce CO_2 and non-GHG emissions	Other Fiscal, technical, information, education, economic Other Fiscal, technical, information, education, economic Other Regulatory,	Adopted Several programmes in 1990s, important aspect in 1997 Finnish Energy Strategy Adopted Accepted in	Ministry of Trade and Industry National Ministry of Trade and Industry National Ministry of Trade and Industry

Page 37 FCCC/WEB/2002/7

Reduction of CO2 emissions from passenger cars: 140/120 g/km by 2008/2010.		existing	National
Differentiation of vehicle taxation Promoting purchase and use of energy-efficient	Fiscal	Other proposed	Government national
Promotion of public and non-motorized transport	Information/ Education	Implemented	Government in co-operation with local authorities
Increasing share of public and non-motorized transport	Information, education, economic	existing, new measures proposed	National
Eco-driving	Information/ Education	Other	Government in co-operation with driving schools
Adoption of ecoefficient driving skills and habits.	Information, education, economic.		national
Energy-saving	Voluntary Agreement	Implemented	Government in co-operation with transport operators
Adoption of energy saving agreements between administration and transport operators.		existing, new agreements under preparation	National
Transport planning and land use planning	Other	Implemented	Government and municipalities
Maintaining compact urban structure	Zoning, transportation system plans, information and education	existing	National
Increase of fuel taxation to reduce traffic volume and GHG emissions	Fiscal	Planned	Ministry of Finance National
Additional promotion of public transport	Information/ Education	Planned	Government in co-operation with local authorities
To promote public transport	Information, education, economic		national
broader energy saving agreements	Voluntary Agreement	Planned	Ministry of Transportation and Communications
to broaden the scope and effectiveness of energy			national
Additional measures to maintain urban structure	Information/ Education	Planned	Government in co-operation with regional and local
concentration of urban structure	Information, education, economic		national

Sector: Waste	Instrument	Status	Implementing Entity
Government decisions on landfills To reduce CH4 emissions	Regulatory	Implemented	Ministry of the Environment national
Waste minimisation, the collection and recovery of waste paper and other waste fractions	Regulatory National waste plan, regulatory	Implemented	Ministry of the Environment national
The waste tax to reduce CH4 emissions	Fiscal	Implemented existing	Ministry of Finance national
Landfill gas recovery and utilization	Regulatory	Planned	Ministry of the Environment, Ministry of Finance
To reduce CH4 emissions	Regulatory, fiscal		national
Waste minimisation, the utilisation of source-separated waste fractions as material and	Regulatory	Planned	Ministry of the Environment, Ministry of Finance
To reduce CH4 emissions	regulatory, fiscal		national
Development of waste taxation To reduce CH4 emissions	Regulatory Regulatory, Fiscal	Planned	Ministry of Finance national

Page 39 FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Renewable energy for DOM/TOM To replace diesel generators in DOM/TOMs with	Other	Implemented Reinforced	
renewable energy sources.		under the PNLCC.	
Use of wood in construction	Information/ Education	Adopted	MATE
	Information, studies, regulation		national
Reduction of Peaks on Load Curve	Economic	Implemented	Ademe, EDF
Broadening the scope of the Tempo rate and using an ADEMEDF agreement	Pricing, public incentives	30,000 Tempo subscriptions recorded in 1996, EDF/ADEME	national

Replacement of older power units

Policy Process

agreements dated 1993 and 1996

Minefi / Electricity

Planned

replacement of order power units	Toney Trocess	Taimed	Department
Replacement of fuel- and coal-powered electricity plants with gas plants	EDF Investments	Initiated	national
Expanded Tax on Energy (TGAP) Expansion of the existing general tax on polluting activities by introducing carbon taxation.	Fiscal Tax system	Planned Suspended	Mate, Mate-Minefi national
Sector: Energy Industries	Instrument	Status	Implementing Entity
Nuclear Investments Continued operation of non-carbon electricity generators.	Economic Investment decisions on EDF's part	Implemented in force	EDF national
Development of Co- generation Substitution of less efficient energy production, with a target of 4 GW in 2010	Regulatory Mandatory purchase of electricity produced through co-generation	Implemented in force	EDF national
Development of Wind Energy Substitution of fossil-fuel generation (EOLE 2005 programme)	Regulatory Regulation	Implemented Reinforced by the PNLCC.	Minefi national
Development of Wood Energy Substitution of fossil-fuel generation (wood energy plan and local development)	Economic Government grants, contracts with local authorities	Implemented Reinforced by the PNLCC.	Map-METL national
Bio-based Fuels Developing the production of agricultural biomass for energy-related purposes	Economic Government grants, tax regimes	Implemented in force	Map national
Production of Wind Energy Encourage the production of wind energy by establishing a minimum purchase price for electricity distributors (reinforcement of an existing measure)	Regulatory	Implemented enforced	Minefi national
Wood Energy for Collective Purposes, District Heating Systems	Fiscal	Implemented	Mdeme-Minefi
Continuation of the Wood Energy Plan, with an increase of 50,000 TOE in 2000	Grants, tax measures	Applied	national
Solar Heat Energy Develop the usage of solar heat energy within "continental" France. The three applications targeted are hot sanitary water for individual use, heating, and hot sanitary water for collective use	Fiscal Grants	Implemented	Ademe-Minefi national

Page 41 FCCC/WEB/2002/7

Geothermal Energy Measures to encourage the use of geothermal energy	Fiscal Grants	Planned	Ademe-METL-Minefi national
Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Thermal Regulation Additional improvements in energy efficiency in new buildings (also applies to new services buildings)	Regulatory Regulations	Adopted Decree adopted on 29 November 2000	METL national
Financial and Tax-Related Incentives for Work on Existing Buildings	Economic	Implemented	METL, Minefi
Reward improvements in energy efficiency in buildings	Economic instruments		national
Actions on State-owned Buildings Improvements in energy efficiency	Regulatory	Planned Initiated	
Improvement of Existing Housing. Institutional Actions Concerning Road Freight	Economic	Planned	METL
Improve existing housing		Underway	national
Reduced rate of VAT on Products and Services Encourage renovations that decrease the greenhouse emissions in existing buildings	Fiscal Tax measures	Implemented Reinforcement under PNLCC is planned.	Minefi national
Reinforcement of Regulation on Heating (Recent Buildings)	Regulatory	Adopted	METL
Reinforcement of regulation on heating adopted in			national
2000 (follow-up to RT-0.1)			national
	Instrument	Status	Implementing Entity
2000 (follow-up to RT-0.1)	Instrument Economic Investment decisions on the part of GDF	Status Implemented	
2000 (follow-up to RT-0.1) Sector: Fugitive Emissions Leakage from Natural Gas Grids	Economic Investment decisions on the		Implementing Entity GDF
2000 (follow-up to RT-0.1) Sector: Fugitive Emissions Leakage from Natural Gas Grids Reduction of fugitive methane emissions	Economic Investment decisions on the part of GDF	Implemented	Implementing Entity GDF national
2000 (follow-up to RT-0.1) Sector: Fugitive Emissions Leakage from Natural Gas Grids Reduction of fugitive methane emissions Sector: Transport	Economic Investment decisions on the part of GDF Instrument	Implemented Status Implemented Reinforced by	Implementing Entity GDF national Implementing Entity METL
2000 (follow-up to RT-0.1) Sector: Fugitive Emissions Leakage from Natural Gas Grids Reduction of fugitive methane emissions Sector: Transport Use of alternative vehicles Recovery of Fiscal Dues on diesel fuel and	Economic Investment decisions on the part of GDF Instrument Other	Status Implemented Reinforced by the PNLCC.	Implementing Entity GDF national Implementing Entity METL national
2000 (follow-up to RT-0.1) Sector: Fugitive Emissions Leakage from Natural Gas Grids Reduction of fugitive methane emissions Sector: Transport Use of alternative vehicles Recovery of Fiscal Dues on diesel fuel and Increase of Minimum Tax Levels on Fuel Reduce the gap in taxing on diesel fuel and gasoline to meet the European average, and change tax measures	Economic Investment decisions on the part of GDF Instrument Other	Status Implemented Reinforced by the PNLCC. Planned	Implementing Entity GDF national Implementing Entity METL national Minefi
Sector: Fugitive Emissions Leakage from Natural Gas Grids Reduction of fugitive methane emissions Sector: Transport Use of alternative vehicles Recovery of Fiscal Dues on diesel fuel and Increase of Minimum Tax Levels on Fuel Reduce the gap in taxing on diesel fuel and gasoline to meet the European average, and change tax measures on fuel at the European level Technical Arrangements Relating to	Economic Investment decisions on the part of GDF Instrument Other Fiscal Fiscal regime Regulatory	Status Implemented Reinforced by the PNLCC. Planned Suspended	Implementing Entity GDF national Implementing Entity METL national Minefi national

using grants and technical measures (financing provided by FITTVN) $\,$

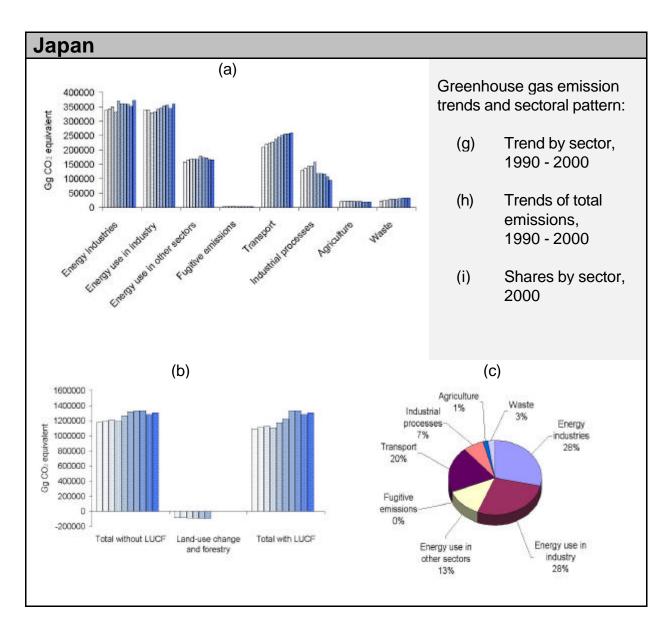
Technical Inspection of Light-Freight Vehicles Reduce polluting emissions by making repairs mandatory	Regulatory	Implemented Decrees dated 5 July 1994 and 1 January 1995	METL national
Urban Transport Optimise urban transport through the implementation of UTPs and local initiatives	Other Law requiring local authorities to establish UTPs	Implemented Law on Air and Rational Use of Energy from 30 December 1996 - circulars dated 27/01 and 13/05/98 on UTPs	METL, local authorities national
High-Speed Trains	Other	Implemented	METL, SNCF
Offer an alternative to road and air transport	Combination, including investment		national
Limiting Speed for Light-Freight Vehicles	Regulatory	Implemented	METL
Road safety and energy consumption	Inspection and enforcement	Reinforced by the PNLCC.	national
Speed Limits on Lightweight Vehicles	Regulatory	Planned	METL-Mate
Speed limits integrated in newly constructed vehicles so that the difference between the speed they can reach and the maximum speed limit is not so significant		Initiated	national
Monitoring of Speed in Heavy-Freight Vehicles	Regulatory	Implemented	METL-Ministry of the Interieur-Ministry of Defense
Reinforcement of speed checks at roadside and promotion of chronodactylograph use			national
Operation of Traffic Lights and Progressive Signal Systems	Other	Planned	METL
Higher penalties for speed violations, leading to average reductions in speed of 10%	Technical		national
Giving Priority to Mass Transport	Economic	Implemented	METL
Encourage the usage of collective transport, by increasing its speed and reducing its fuel consumption		Launched	national
Controlling the Development of the Urban Environment	Research	Adopted	METL-Mate (D4E)
Definition of methods to help local authorities prioritise infrastructure projects, according to how much traffic they create and assistance in identifying	R&D, Economic	Launched	national
Taxation of Kerosene Oil	Fiscal	Planned	METL-Minefi-Mate
Implementation of a tax or fee system at the European level	Tax System		national
Recovery of Tax Revenue from Gasoil (follow-up	Fiscal	Planned	Minefi

Page 43 FCCC/WEB/2002/7

to T-0.1.1) Gradually bring taxation on gasoil to the level of that on gas	Tax System	Initiated	national
Internalisation of Cost of Carbon Allowance for the cost of carbon in the TIPP	Fiscal Tax System	Planned Suspended	METL-Minefi-Mate national
Inter-City Infrastructure Offering - Other Measures within the framework of service schemes	Other Planning	Planned	METL national
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Voluntary Commitments	Voluntary Agreement	Implemented	Mate/Industries
Reduction in GHG emissions	Voluntary agreements	Five agreements have been signed (aluminum, steel, lime, cement and glass)	national
Tax on Nitric Oxide Emissions Pollution control	Fiscal	Implemented Reinforcement under PNLCC is planned.	Map national
PFCs (CF4) in the Production of Aluminum	Regulatory	Planned	Mate
Limitation of PFC emissions in the production of aluminum	Regulation	Initiated	national
Sector: Agriculture	Instrument	Status	Implementing Entity
Reducing emissions of methane from ruminants, manure and fertilizer management	Research	Adopted	Map
Preparation of recommendations of methods to reduce such emissions.	Research into a range of measures designed to be environmentally effective		national
N2O Emissions in Soil	Fiscal	Planned	Map-Mate
Reduction of N2O emissions from nitrated fertilizers	Tax measures		national
Improvement of knowledge Research into CH4 from ruminants, use of biomass, causes of N2O emissions from soils, CO2 emissions from agricultural soils	Research	Implemented Adopted	Map national
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Afforestation of Farmland Expansion of carbon sinks (policy decision to timber 30,000 hectares of farmland per year)	Fiscal State Grants	Implemented Implementation slowed down after the 1999 storms.	Mate national
Sector: Waste	Instrument	Status	Implementing Entity

Conversion of Waste into Energy Doubling the incineration capacity	Policy Process Legislative measure	Implemented Law on Waste dated 13 July 1992	Mate national
Ban on Dumping of Waste Reduction in CH4 emissions	Policy Process Legislative measure	Implemented Law on Waste dated 13 July 1992, circular dated 28 April 1998	Mate national
Reinforcing Recycling of Materials or Organic Matter	Regulatory	Adopted	
Agronomic Recycling of Organic Waste	Regulatory	Implemented Launched	

Page 45 FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Keidanren Voluntary Action Plan on the Environment (Japan Federation of Economic	Voluntary Agreement	Implemented	Industry
Organizations = Keidanren) Steady implementation of voluntary action plans and follow-up			national
Comprehensive energy management	Other	Implemented	Private and enterprises
On-site energy management at private residences and office buildings, factories and business sites	Measures based on the Law Concerning the Rational Use of Energy	Implemented for factories and business sites, planned: factory checkups	national
Energy demand side management for commercial sector	Other	Planned	Business
Strengthens energy demand side management measures at large business sites by revision of Law Concerning	Revision of existing Law	Revision of Law proposed	national

the Rational Use of Energy and new system of already implemented measures

Top Runner Approach

Further improving appliance efficiency, introducing Top Runner Approach in line with Law Concerning Rational Use of Energy to raise standards for max. energy conservation and efficiency performance

Other Adopted

Top Runner Approach concept just adopted

national

Reduction of standby power consumption

To achieve a target of 1 W or less for equipment requiring energy consumption when on standby.

Voluntary Agreement

Other

Industry

national

Promoting introduction of high performance industrial furnaces

To introduce energy saving facilities to companies by assistance systems.

Other

Other

Industry

national

Energy conservation performance in housing and buildings

To increase energy conservation in residential and commercial sector.

Information/ Education

To publicize judgment criteria for construction parties and give assistance, construction instruction and information to consumers.

Other Industry

national

Development and diffusion of new energy-saving technologies

To further improve energy efficiency by developing and distributing new energy-saving technologies such as boilers, lasers and light emitting diodes.

Other Implemented

Effect expected national until 2010.

New energy sources

To adopt new energy sources in order to maintain steady supplies. (Wind power generation, waste power generation, biomass energy for local authorities and businesses. Photovoltaic power generation and solar thermal utilization for individual housing. Furthermore it is planned to make use of snow ice cryogenic energy and to promote green purchases and procurement.

Other Planned

national

Fuel switching

Subsidize converting coal fired power generations to natural gas power generations and domestic natural gas development projects (developing wells and linked pipelines etc.) Preparation of safety standards for natural gas pipelines.

Fiscal Implemented

national

Promotion of nuclear power

To establish new nuclear power plants while giving priority to safety. Research and development of nuclear fuel cycles and promotion of the MOX utilization in LWRs. Acquire nationwide agreement

Other

Economic and educational

Implemented

national

Page 47 FCCC/WEB/2002/7

concerning the nuclear power policy thru public hearings and PR activities and promoting education related to energy and nuclear power.

Promoting development of innovative technologies beyond current technical standards

To develop energy conservation-related technology such as: technology using supercritical fluids, technology for ultra high efficient photovoltaic power generation, innovative hydrogen production technology, technology for CO₂ storage and fixation and for ultra-steel and super heat-resistant materials. Also to promote studies relating to resource cycling.

To promote domestic sea freight transportation by ship

and rail and to improve efficiency of freight

Other Implemented

national

national

Sector: Transport	Instrument	Status	Implementing Entity
Use of hybrid and natural gas vehicles Promoting the smooth introduction and use of hybrid vehicles and natural gas trucks and buses through subsidies and tax concessions.	Economic	Planned	national
Improving energy efficiency of railways, ships and aircraft	Other	Implemented	
To introduce train, ships and aircraft with better energy efficiency characteristics.			national
Accelerated introduction of vehicles that meet Top Runner standards	Fiscal	Planned	Industry
To achieve Top Runner standards on vehicles through industry's voluntary measures (reducing Automobile Acquisition Tax and green automobile taxation).	To be achieved by fiscal 2010.		national
Vehicle traffic measure	Other	Planned	
To promote alternatives to transportation (e.g. tele-working) and ITS (Intelligent Transport Systems).	To promote eco-driving though distribution of idling prevention systems on buses and trucks. TDM (Traffic Demand Management), business vehicles' driving style	Measures should be implemented	national
Construction of traffic system with minimal environmental impact	Other	Planned	
To implement transportation system with little carbon dioxide emissions and low environmental impact by shifting transportation modes towards alternative ones. Also public transportation will be continuously improved to reduce use of private passenger vehicles.	i		national
Promoting use of domestic sea freight transportation by ship and rail	Economic	Planned	

transportation.

Promoting use of public transportation

To promote public transportation by constructing new railways and modified personal rapid transit systems in urban areas and improving existing services and conveniences. Utilization of Traffic Demand Management (TDM).

Other Planned

national

Sector: Industrial Processes	Instrument	Status	Implementing Entity
Measures to reduce CO ₂ emissions from industrial processes. Increased use of mixed cement with less CO ₂ emissions during the production process. Promotion of Law for Promotion of Procurement of Recycled Products by the National Organizations and Local Authorities on its own Initiative.	Economic	Implemented	national and local
$\label{eq:measures} \begin{tabular}{ll} \textbf{Measures to reduce N_2O emission} \\ \textbf{Establishment of N_2O emission suppressing equipment in adipic acid production process.} \end{tabular}$	Other	Implemented	local
Promotion of implementation of voluntary action plans of industries To reduce HFCs, PFCs and SF ₆ by industry through voluntary action plans (established 1998) and further support to these organizations.	Other	Implemented	national
Development of substitutes To develop substitute gases systems, and substitute processes, for etching gas (PFC) used in production of electronic devices. Develop production and cleaning process system for electronic device production substituting SF ₆ and PFCs. Develop technologies to destroy HFC 23 generated as by-product in industrial processes. Promotion of implementation of voluntary action plans of industries and use of products using substitutes.	Other	Implemented	national
Recovery and destruction of HFC refrigerations as required by law. Preparation of a recovery and destruction system through voluntary measures by industries as well as local communities.	Other	Implemented	national and local
Sector: Agriculture	Instrument	Status	Implementing Entity

Promoting the effective use of timber resources Other Other To expand utilization of timber and wood materials by implemented/ national improving technologies for timber and wood materials planned processing and expanding wood demand (e.g. in housing). Promoting a reduction in emissions of CO₂ from Other Implemented farmland soil To promote compost deoxidization and green manure national cultivation in farmland as well as the preparation and preservation management of grassland.

Page 49 FCCC/WEB/2002/7

Measures to reduce $\mathrm{CH_4}$ emissions by improving farmland management, e.g. livestock feeding management skills.

To develop technologies to reduce emission of greenhouse gases from the agricultural sector.

Other Implemented

national

national

national

Implemented

Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Sound forest management Establishment of multi-storeyed forests, broad-leaved tree species according to the functional classification of forests. Implementation of tending practices such as urgent thinning. Re-establishment (re-planting) and weeding after felling. Afforestation and tending in non-forested areas, waste land, forests hit by natural disaster and abandoned agricultural land.	Other Planned or implemented	Planned Planned or implemented	national
Appropriate management of protected forests Promotion of systematic designation of forests as protected forests, promotion of conservation measures in protected forests. Prevention of damage caused by diseases and pests. Forest related activities with citizen participation. Coordination between groups such as community residents and NPOs as well as forest environment education.	Other	Implemented	
Promotion of utilization of timber and wood Developing new demand for forestry products such as timber and wood biomass energy (i.e. in construction and facilities). Using local timbers i.e. in school interiors and school-related facilities.	Other	Implemented	national
Promotion of urban greening Greening of public facilities vegetation along public facilities such as urban parks, roadways and rivers. Promotion of greening based on "Green Policy Guidelines and "Eco Port Policy" (for greening of ports and harbors), Drafting of "Basic Plan of Green" by cities, towns and villages. Promotion of education to popularize greenery activities by groups such as residents, companies NPOs etc.	Other	Planned	national
Sector: Waste	Instrument	Status	Implementing Entity
Promotion of measures to reduce CO ₂ emissions caused by waste incineration To reduce and restrict waste generation and increase recycling ratio through sorting of waste.	Other	Implemented	national
Measures to reduce CH ₄ emissions by reducing	Other	Implemented	

Other

To reduce emission of N_2O by promoting combustion for wastewater sludge and municipal solid waste.

Sophistication of combustion in incineration

To halve the volume of waste disposed of in landfills by

only incinerating waste that cannot be reduced through

waste generation and recycling waste.

other measures.

facilities.

Improving drainage treatment.

Sector: Cross-Sectoral

To increase use of sewage and combined household treatment systems.

Other

Implemented

national

Establishment of the basis for promoting global warming prevention activities

Implementation of a national campaign to create a lifestyle suited to the global environment era. Strengthening the basis for promoting regional measures. Promotion of measures implemented by individual families (i.e. info about a product's greenhouse gas emission through labeling). Residential and commercial sector: raising air conditioners temperatures to 28 degrees Celsius and lowering heater temperatures to 20 degrees Celsius or lower. Changing incandescent lamps to fluorescent lighting. Purchase of microwaves with lower electrical consumption. Introduction of dish washers and water-saving shower heads. Reduce usage of heaters and lighting by family members spending more time in the same room. Watching TV by one hour a day and selective TV viewing. Reducing each family member's use of shower by one minute daily. Using bathwater to wash clothes. Eliminating usage of electric thermostat in pots and rice cookers. Using one's own shopping bag. Transportation sector: Installation of solar-proofing film on vehicles. Installation of parts contributing to reduce CO₂ emissions while driving. Promotion of eco-drive for company cars. Commercial and transportation sector: Implementation of measures to reduce greenhouse gas emissions with regard to clerical work and projects of all governmental levels as well as cities, towns and villages.

Other

Instrument

Planned

Status

national and regional

Implementing Entity

Promotion of awareness campaigns for global warming prevention activities

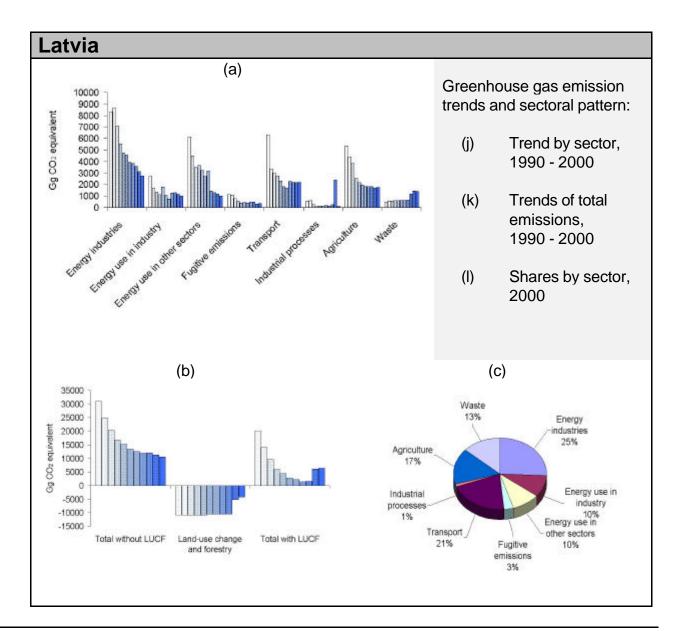
Revive national debate on Daylight Saving Time. Campaigns to promote teleworking and bicycle use. Support schools to further environmental and energy-related education and study. Establishment of eco-schools (environment-friendly school facilities). Introduce importance of greenery as means to remove carbon dioxide.

Other

Planned

national

Page 51 FCCC/WEB/2002/7



Sector: Energy Industries	Instrument	Status	Implementing Entity
Renewal of small HPS (Hydro Power Stations) Increase the specific weight of renewable resources in total energy balance	Economic Economic, socio-economic	Other	Enterprises national
Use of wind energy Increase the specific weight of renewable resources in total energy balance	Economic Socio-economic	Other	Enterprises national
Bio diesel fuel as a internal combustion fuel in small scale co-generation plants	Economic	Other	Enterprises
To reduce CO ₂ emissions by replacing diesel fuel with bio diesel fuel in small capacity co-generation equipment internal combustion engines	Socio-economic		national

Cost-effective use of wood-waste in the local

Economic

Adopted

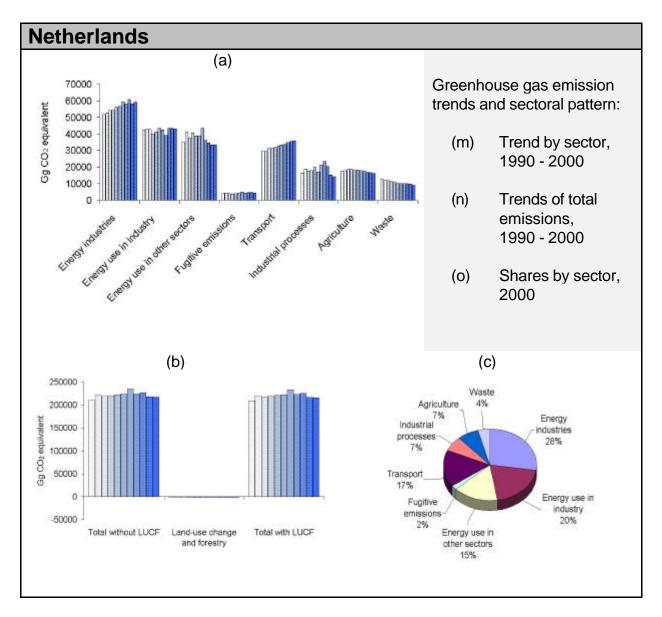
Dutch energy company

governments' heating systems	Economic	Adopted	"Essent" and "Vides Projekti"
New pilot boiler house to demonstrate the use of wood-waste as a substitute for fossil fuels. To develop the potential of Ludza municipality and to continue similar projects in other locations of Latvia.	Economic, informative		local
Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Projects of the Local Governments' Crediting To improve operation of the heat supply system, in some projects - to carry out efficient heat insulation of buildings and radical reduction of energy consumption.	Economic, socio-economic	Implemented	Local governments national
Heat efficiency improvement program in	Information/ Education	Planned	MEPRD Construction Dpt., ME Energy Dpt., etc.
To study the general situation in the country in the area of heat keeping of buildings, provide information on opportunities and efficiency of heat insulation, as well as on the activities to be accomplished for optimization of situation	Informational research, educational		national
Reduction of heat losses in buildings. Educational system development project	Economic	Adopted	MES and local governments
Increase energy efficiency in 116 school buildings			
Efficient lighting program	Voluntary	Adopted	DPC, Ekodoma
Efficient lighting program	Agreement	Tuopteu	D1 C, Enogonia
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in	•	Taoptou	210,24000
To decrease the impact of lighting on climate change,	Agreement <i>Economic</i> ,	Status	Implementing Entity
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in Sector: Fugitive Emissions Reduction of VOC emissions from fuels arising	Agreement Economic, socio-economic		
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in Sector: Fugitive Emissions	Agreement Economic, socio-economic Instrument	Status	Implementing Entity
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in Sector: Fugitive Emissions Reduction of VOC emissions from fuels arising from the storage of oil products To establish the order how all oil depots of Latvia	Agreement Economic, socio-economic Instrument Economic Economic,	Status	Implementing Entity Oil base owner
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in Sector: Fugitive Emissions Reduction of VOC emissions from fuels arising from the storage of oil products To establish the order how all oil depots of Latvia should install steam collection and processing	Agreement Economic, socio-economic Instrument Economic Economic, legislative Instrument Information/	Status Adopted	Implementing Entity Oil base owner regional
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in Sector: Fugitive Emissions Reduction of VOC emissions from fuels arising from the storage of oil products To establish the order how all oil depots of Latvia should install steam collection and processing Sector: Transport	Agreement Economic, socio-economic Instrument Economic Economic, legislative Instrument	Status Adopted Status	Implementing Entity Oil base owner regional Implementing Entity
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in Sector: Fugitive Emissions Reduction of VOC emissions from fuels arising from the storage of oil products To establish the order how all oil depots of Latvia should install steam collection and processing Sector: Transport Improvement of the public transport system in	Agreement Economic, socio-economic Instrument Economic Economic, legislative Instrument Information/ Education Informative,	Status Adopted Status	Implementing Entity Oil base owner regional Implementing Entity Riga Council
To decrease the impact of lighting on climate change, reforming modern lighting technologies market in Sector: Fugitive Emissions Reduction of VOC emissions from fuels arising from the storage of oil products To establish the order how all oil depots of Latvia should install steam collection and processing Sector: Transport Improvement of the public transport system in To improve public transport system Development of cycling To include cycling as a transport mode in the general	Agreement Economic, socio-economic Instrument Economic Economic, legislative Information/ Education Informative, socio-economic Economic Economic,	Status Adopted Status Adopted	Implementing Entity Oil base owner regional Implementing Entity Riga Council regional Riga Council

Page 53 FCCC/WEB/2002/7

Sector: Industrial Processes	Instrument	Status	Implementing Entity
Introduction of EMS and CP in pharmaceutical industry of Latvia	Economic	Implemented	Company management
The objective is to integrate EMS in other management systems (quality, health and safety at work) of enterprises.	Voluntary, economic, informative		
Sector: Agriculture	Instrument	Status	Implementing Entity
Rural development program	Economic	Adopted	Public institutions, local government, agricultural producers
To improve productivity of milking cow and pig herds and partly raise revenues of grain producers and field vegetable farmers, encourage rational use of covered areas, compensate energy price rise in covered areas and ensure the domestic demand for vegetables produced in Latvia.			regional
Good agricultural practice	Voluntary Agreement	Adopted	Agricultural producers
To lessen the negative impact of economic activity on the environment and to respect agricultural production regulations adopted in developed countries, Europe and the world			regional
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Targeted afforestation of abandoned agricultural land	Voluntary Agreement	Adopted	Land owners and users
To encourage rational use of abandoned agricultural and otherwise not reclaimed land thus increasing forest-covered areas			regional
Increase of forest productivity	Economic	Implemented	Land owners and lawful possessors
To increase forest productivity	Economic, legislative		regional
Sector: Waste	Instrument	Status	Implementing Entity
Processing of animal-origin waste Processing of animal-origin waste	Regulatory Regulatory, economic	Planned	Not identified
Waste recycling To reduce the amount of household waste in landfills	Economic	Adopted	Enterprises national
Biogas generation: Modernization project of "Getlini" - Riga municipal waste landfill	Economic	Adopted	SIA "Getlini-Eko"
To produce biogas from waste and use it for energy generation			regional
Biogas generation: Waste management project in Liepaja	Economic	Adopted	SIA "Liepajas RAS"
To create a modern waste management system and to use the produced biogas for energy generation			regional

FCCC/WEB/2002/7



Sector: Energy Industries	Instrument	Status	Implementing Entity
5% renewables in 2010	Policy Process	Implemented	national governments, prov. governments, energy companies, housing corporations
Decrease emissions though increased market share for renewable energy	 subsidies fiscal incentives market liberalization/ green certificates agreement with provincial NGO's resiting of windmills voluntary agreements with 	 in effect in effect in effect in preparation in 	national

Page 55 FCCC/WEB/2002/7

	housing corporations		
Measures at coal-fired power plants	Other	Implemented	national government, owners of coal-fired plants
Decrease emissions through fuel switch and efficiency improvement	1. voluntary agreements with plant owners, 2. fiscal incentives, 3. regulatory/environmental permit	 in preparation in effect in effect 	national
Promotion of combined heat and power (CHP) Encourage construction of new and continued use of existing CHP capacity	Fiscal	Implemented	national government national
Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
Energy savings in industry Attain 'world top' by 2012 in most energy-intensive sectors; take all measures in other sectors with internal rate of return > 15% after taxes	Voluntary Agreement 1. Benchmarking covenant 2. long term agreements 3. regulatory/permit 4. fiscal incentives	Implemented	nat'l gov't, prov. gov't, industry, NOVEM national and regional
Energy savings in greenhouse horticulture	Voluntary Agreement	Implemented	
To improve energy efficiency by 65% between 1980 and 2010	1. voluntary agreement 2. regulations 3. CO ₂ buffer project 4. fiscal incentives 5. subsidies		no entity given
Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Energy Performance Advice Save energy in existing households	Voluntary Agreement 1. voluntary advice 2. fiscal incentives	Implemented	energy companies, nat'l gov't national
Encouraging energy-efficient appliances Increase penetration of most efficient appliances	Regulatory 1. energy labeling 2. fiscal incentives	Implemented	nat'l gov't, retailers national and regional

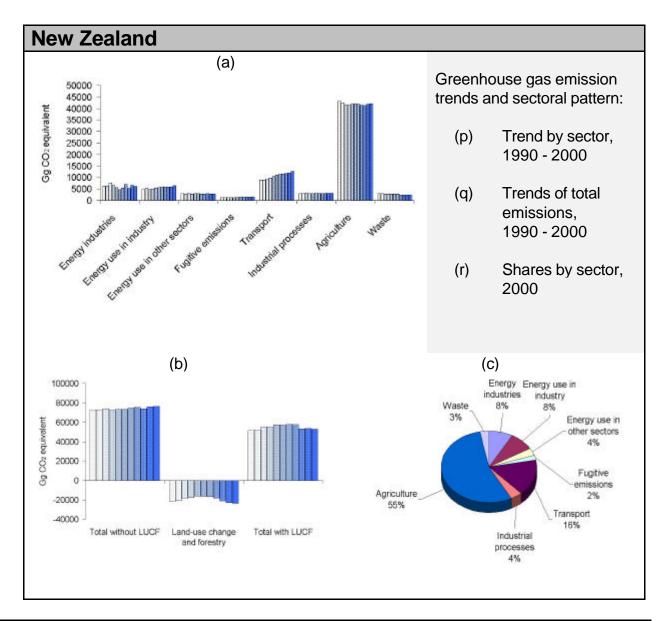
FCCC/WEB/2002/7 Page 56

Energy performance Advice Save energy in existing non-residential buildings	Voluntary Agreement 1. voluntary advice 2. fiscal incentives	Implemented	energy companies, nat'l gov't national
	3. regulations		
Sector: Fugitive Emissions	Instrument	Status	Implementing Entity
Methane Emissions from oil and gas production	Research	Planned	national government, research institutes
Identify reduction potential		1. in study	national
Sector: Transport	Instrument	Status	Implementing Entity
CO ₂ differentiation in vehicle tax and car	Fiscal	Implemented	national government, car dealers
Encourage purchases of fuel-efficient cars	1. fiscal, 2. new car labeling	 in preparation, in effect 	national
Encouraging in-car instruments	Fiscal	Implemented	national government, car dealers, garages
Promote monitoring instruments for fuel efficient driving behaviour	1. fiscal incentives, 2. voluntary agreements with car dealers and garages		national
Tax measures to limit passenger traffic Discourage commuter traffic and personal use of company cars	Fiscal	Implemented	national government national
Increased tire pressure	Voluntary Agreement	Implemented	nat'l gov't, car dealers, garages
Reduce road friction and energy consumption	 agreements public information 		national
Road pricing	Economic	Planned	national government
Improve access to cities and reduce congestion	experience		national
Stepped up enforcement of speed limits Reduce speeding and save fuel	Regulatory 1. targeted traffic control	Implemented	national government national
Traffic and transport projects in CO ₂ reduction	Economic	Implemented	national government, NOVEM, Senter
Improve logistics, efficiency of goods transport, improve driving behaviour	1. subsidies, 2. communication	1. in effect, 2. in preparation	national
Emissions reductions by use of catalytic Further European regulations	Regulatory	Planned 1. in study	national

Page 57 FCCC/WEB/2002/7

Sector: Industrial Processes	Instrument	Status	Implementing Entity
Reduction of HFC, PFC as (H)CFC alternatives	Other	Planned	nat'l gov't, prov. gov't, industry
Improve knowledge about emissions and reduction possibilities and realize as much reduction potential as possible	 research regulations agreements subsidies fiscal incentives 		national and regional
Reduction of PFCs from the aluminum industry	Voluntary Agreement	Other	nat'l gov't, prov. gov't, industry
Make adjustments to production process	 agreements permits 	no status given	national and regional
Reduction of HFC's from processes	Regulatory	Implemented	prov. gov't, industry
Install/optimise afterburner	1. permit		regional
SF ₆ from chip industry and heavy current technology	Research	Implemented	nat'l gov't, industry, research institutes
Identify reduction potential		1. in study	national and private
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
CO ₂ sequestration Accelerate afforestation in the Netherlands	Fiscal 1. certification of CO ₂ reduction from forests 2. fiscal incentives	Implemented	national government national
Sector: Waste	Instrument	Status	Implementing Entity
Emissions from former dumpsites	Research	Planned	nat'l gov't, research institutes
Identify reduction potential			national

FCCC/WEB/2002/7 Page 58

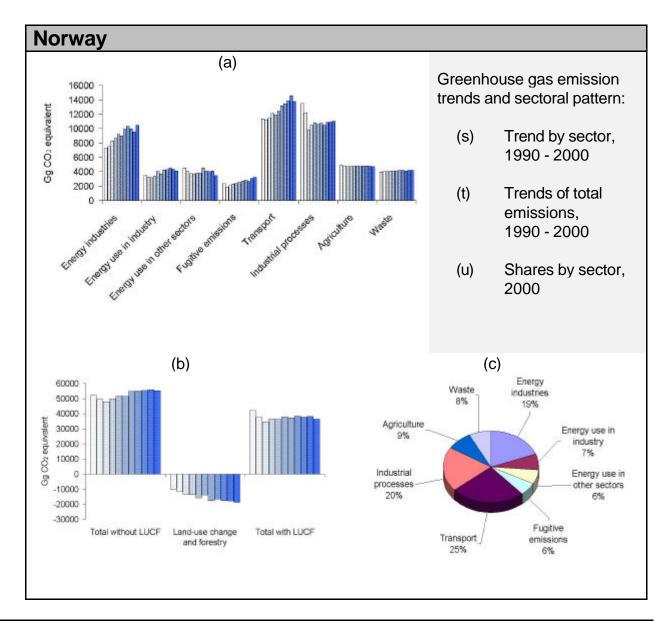


Sector: Energy	Instrument	Status	Implementing Entity
National Energy Efficiency and Conversation Strategy	Policy Process	Implemented	Energy Efficiency and Conservation Authority (EECA)
Promotion of energy efficiency and conservation	All		National
Greenhouse Agreements	Voluntary Agreement	Planned	Central Government
CO ₂ -reduction from energy and industry			National
Carbon tax Reduction of CO ₂ emissions	Fiscal	Other Considered	Central Government National
Sector: Transport	Instrument	Status	Implementing Entity
Vehicle Fleet Control Strategy Air Quality and Climate Change	Regulatory Government programme	Planned	Ministry of Transport National

Page 59 FCCC/WEB/2002/7

Sector: Industrial Processes	Instrument	Status	Implementing Entity
Reduction of PFCs Air Quality and Climate Change	Regulatory Resource consent condition	Implemented	Government National
Training and certification programme for refrigeration engineers	Information/ Education	Planned	Central Government (Ministry for the Environment) and the Institute of Refrigeration, heating and Air conditioning engineers
Correct handling of fluorocarbon refrigerants and reduction of emissions	Training Programme		National
Sector: Agriculture	Instrument	Status	Implementing Entity
Research funding into methane mitigation	Research	Implemented	Ministry of Agriculture and Forestry
Reduce Ruminant methane emissions and enhanced animal production	Research funding		National
Research funding into nitrous oxide mitigation	Research	Implemented	Ministry of Agriculture and Forestry
Reduce nitrous oxide emissions from soils and reduce nitrogen leaching to ground water	Research funding		National
Animal Waste Management Systems Water quality	Regulatory	Implemented	Local government Local
Code of Practice for the Use of Fertilizer Water quality and sustainable management	Regulatory	Implemented	Local government Local
Reduction in agricultural subsidies Agricultural reform	Regulatory <i>Economic, fiscal</i>	Implemented	Central Government National
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Forest expansion New forest under sustainable management	Regulatory	Implemented	Central Government National
East Coast Forestry Project Erosion reduction and Forestry production	Regulatory	Implemented	Central Government National
Indigenous Forest Protection Protection and Conservation of native forests	Regulatory	Implemented	Central Government National
Forest risk management Reduction of forest fires	Regulatory	Implemented	Central Government National
Sector: Waste	Instrument	Status	Implementing Entity
National Waste Minimisation and Management Strategy Reduce volume of waste and enhanced methane recovery	Regulatory	Adopted	Ministry for the Environment National
Removal of methane in waste water Water quality and methane capture	Other	Implemented	Local government initiatives

FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
CO ₂ tax Consumption of mineral oil, petrol, coal and coke	Fiscal	Implemented Implemented in 1991	Government national
Petroleum Act Oil and gas production. Permit required for flaring	Regulatory	Other	Government national
Carbon reinjection Deposition of carbon at Sleipner	Other no type given	Implemented	no entity given
Sector: Energy Industries	Instrument	Status	Implementing Entity
Support for renewable energy Investment grants and tax exemptions for renewable energy production	Economic, subsidies	Implemented	Government national

Page 61 FCCC/WEB/2002/7

CO ₂ -free gas-fired power production Government wishes to establish pilot plant for CO ₂ -free gas-fired power production around 2005	Research Research, development.	Other Proposed in white paper.	Government, industry. national
Energy efficiency	Research	Other	Enova and regional
Private and public energy use. State funding for energy efficiency to be coordinated through Enova	Research, information.	Enova has been operative from 1 January 2002.	energy efficiency centers. national
Energy use	Voluntary Agreement	Implemented	Industry
Greater use of bioenegy and alternative fuels in cement production	C		national
Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
CO ₂ tax Oil and gas production	Economic, fiscal	Implemented Implemented in 1991	Government national
Electricity tax Electricity consumption. Tax rate in January 2001 NOK 0.113 per kWh	Economic, fiscal	Implemented	Government national
Agreements with energy intensive industries	Voluntary Agreement	Implemented	Government and branches of industry or individual companies
Efficiency improvements in industrial activities that are currently exempted from the CO_2 tax	Voluntary/ negotiated agreements	Implemented March 2002	national
Sector: Fugitive Emissions	Instrument	Status	Implementing Entity
CO ₂ tax (petroleum sector) Flaring and burning of natural gas and diesel in the petroleum sector	Economic	Implemented	Government national
Flaring and burning of natural gas and diesel in the	Economic Instrument	Implemented	
Flaring and burning of natural gas and diesel in the petroleum sector			national
Flaring and burning of natural gas and diesel in the petroleum sector Sector: Transport CO ₂ tax, petrol and diesel taxes	Instrument	Status	Implementing Entity Government
Flaring and burning of natural gas and diesel in the petroleum sector Sector: Transport CO ₂ tax, petrol and diesel taxes Domestic transport Exemption from purchase and investment tax for	Instrument Economic	Status Implemented	Implementing Entity Government national

ferries started in February 2000. Supply ships will be in operation from 2003.

Production improvements	Voluntary Agreement	Implemented	Industry
Technical changes in the production of nitric acid			national
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Agreements on Fluorinated Gases	Voluntary Agreement	Other	Government and aluminum industry
Aluminum industry	Voluntary/ negotiated agreements	Agreement reached in 1997.	national
Production improvements	Voluntary Agreement	Implemented	Industry
Improved routines and plant maintenance in magnesium production	Voluntary Implemented Industry		national
SF ₆ recovery facility	Other	Implemented	Facility (RENAS) established in June 2001.
Collection, recycling and destruction of electric equipment	Administrative		national
Sector: Waste	Instrument	Status	Implementing Entity
Pollution Control Act (licensing requirements) Licences include requirements for collection and combustion of methane	Regulatory	Implemented	Government national
Tax on final waste treatment	Economic	Implemented	Government
The tax puts a price on emissions from final waste treatment	Economic, fiscal.	Implemented in January 1999.	national
Agreement with industry	Voluntary Agreement	Implemented	Government and industry
Waste minimization			national
EU Directive on landfills	Regulatory	Planned	Government, EU Commission Government, EU Commission Government, EU Commission
Requirements to reduce biodegradable municipal waste		Under	national and EU
and collect methane		implementation.	
Sector: Cross-Sectoral	Instrument	Status	Implementing Entity
Pollution Control Act/IPCC Directive Industrial activities, oil, gas, energy production. BAT and energy efficiency requirements in industrial installations	Regulatory	Other IPPC Directive applies to new entities. For	Government national

Page 63 FCCC/WEB/2002/7

> existing entities the Directive will apply from2007.

Emissions trading

Most major emission sources from 2008. The proposed system would then cover 80-90% of total GHG emissions. A narrower system from 2005

Economic Economic, market

Planned Implementation

from 2008 proposed in Report No. 54 (2000-2001) tothe Storting. Implementation with narrower coverage from 2005 proposed in Report No. 15 (2001-2002) to the Storting.

Government national

Pollution Control Act

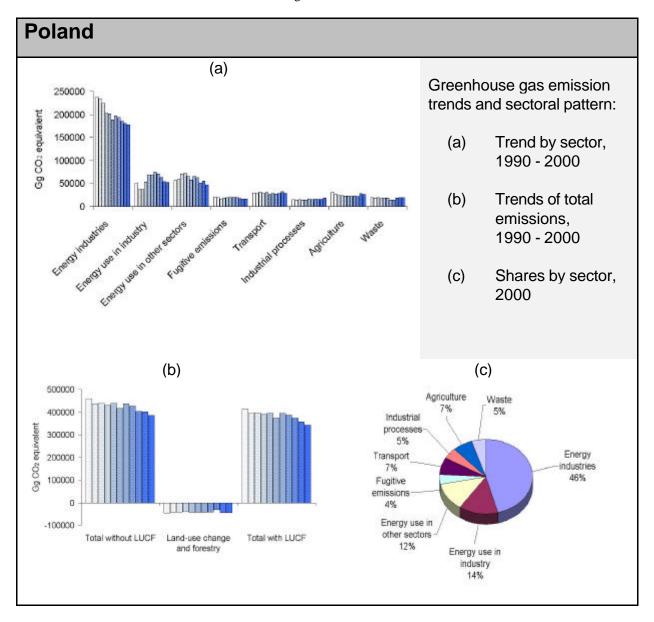
NMVOC regulation on- and offshore

Regulatory

Implemented

Government national

FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Assumptions for Energy Policy for Poland until 2020 (ZPE20) (Document of the Council of Ministers of 22/02/2000)	Information/ Education	Implemented	The Council of Ministers and entire central administration and Voivodes RM
Safety, competitiveness, environmental protection. Impact on all the components of environment		Effective from 22 February 2000 upon a Decision of RM (the Council of Ministers)	National
Restructuring of PGNiG	Regulatory	Adopted	MSP, MG, RM and PGNiG
Basis to create a market structure		Governmental Strategy of Privatisation of PGNiG adopted	National

Page 65 FCCC/WEB/2002/7

in 2000

Self-governmental offices and power engineering companies (PEN)	Regulatory	Adopted	President of URE, Self-governmental offices, PEN
Development of local markets including OZE		Decided in 1997 upon the Act on Energy Law, in the course of implementation	Private
Monitoring system	Information/ Education	Planned	MG, URE
Supervision over ZPE20 effectiveness	Recommendation of RM	Being considered	National
Strategy of integrated management of energy and environment: pinch technology analysis; promotion of OZE; emission trading (SO ₂ and	Regulatory	Planned	MG, MS, President of URE
Improvement of energy efficiency of companies, and increase of competitiveness with significant reduction of emission and at the cost as low as possible for companies and the whole country	Legal, economical and regulatory instruments are expected to be used	Recommended upon ZPE20 and Resolutions of the Parliament of the Republic of Poland. There are projects of amendments to some Acts and Ordinances of MG. It has been implemented since 1998	National
Strategy of organisational and technological decentralisation of power engineering systems: investment policy; development of small CHPs; development of local markets - local resources (OZE and others); assumptions and plans of communes and plans of companies	Regulatory	Adopted	MG, territorial self-governments and power engineering
Development of local energy markets, increase of OZE share, development of small CHP sources, stimulation of activities in communes - as a result, significant growth of energy use efficiency is expected. Strong rationalisation of the energy use and decrease of emission level.	Of legal, regulatory, information and education and research character	Decided upon the Energy Law: OZE + commune plans - heat, from 1997, commune plans - energy from 1998, CHP from 2000, MG Ordinance of December 2000	National
Sector: Energy Industries	Instrument	Status	Implementing Entity
Strategy for transitional period: restructuring of hard coal mining	Regulatory	Implemented	RM, MG
Economical level of coal production. Improvement of coal quality and CH ₄ reduction	Special Act on Restructuring of Hard Coal	Valid from 15/12/2000	National

Mining

FCCC/WEB/2002/7 Page 66

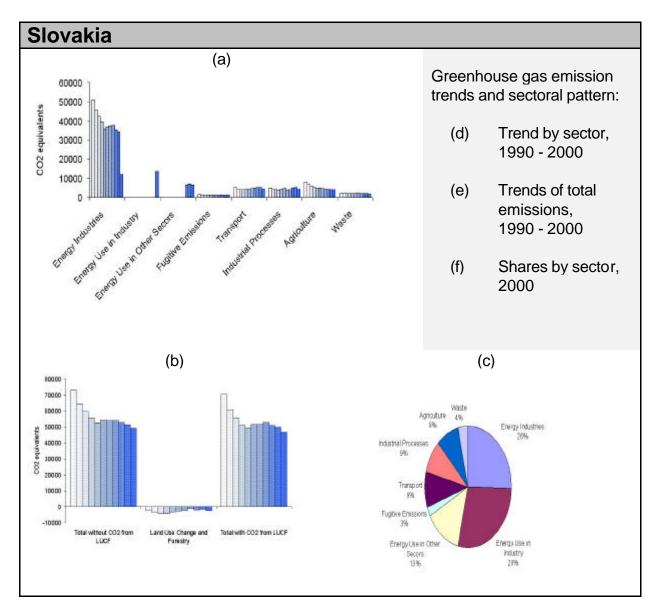
Long-term contracts	Regulatory	Other	President of URE and Power Stations and CHP's
Modernisation of public power engineering. Reduction of atmosphere pollution. Emission standards and charges	Of civil law and regulatory character, of legal character - MS Ordinance	System of Compensation Charges included in the Second Environmental Policy; Ordinance of MS	Private
New sources of gas supplies Safety of deliveries, reduction of GHGs emission	Regulatory	Adopted Act of 26/05/2001 on Amendments to the Act on Energy Law (PE) is still effective	MG, PGNiG National
Strategy of liberalisation of energy supply	Economic	Implemented	MSP, MG, President of URE
Strengthen competition in the sector, acquisition of investment capital for development and budget and improved customer service	Market reform in power engineering sector, of legal and regulatory character as well as implementation of competitiveness, including TPA	Decided and implemented since 1990 and 1997 (PE); revised in 2000 (PE) and ZPE20. Price regulation since 1999 (electricity) and 2000 (gas)	National
Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
National Programme for Integration with EU: Establishing of free market principles in power gas engineering sectors Improvement of economy and energy efficiency of power engineering companies	Instrument Regulatory	Planned Decision in accordance with the negotiation schedule	Implementing Entity RM/MG, MSP National
National Programme for Integration with EU: Establishing of free market principles in power gas engineering sectors Improvement of economy and energy efficiency of		Planned Decision in accordance with the negotiation	RM/MG, MSP
National Programme for Integration with EU: Establishing of free market principles in power gas engineering sectors Improvement of economy and energy efficiency of power engineering companies	Regulatory	Planned Decision in accordance with the negotiation schedule	RM/MG, MSP National

Page 67 FCCC/WEB/2002/7

promotes CHP not continued

Sector: Agriculture	Instrument	Status	Implementing Entity
Programme for Development of Environmental Agriculture	Other	Adopted	Ministry of Agriculture
reduce GHG emissions through improving fuel efficiency, livestock management, manure management			national
and management of nitrate fertilizers			

FCCC/WEB/2002/7

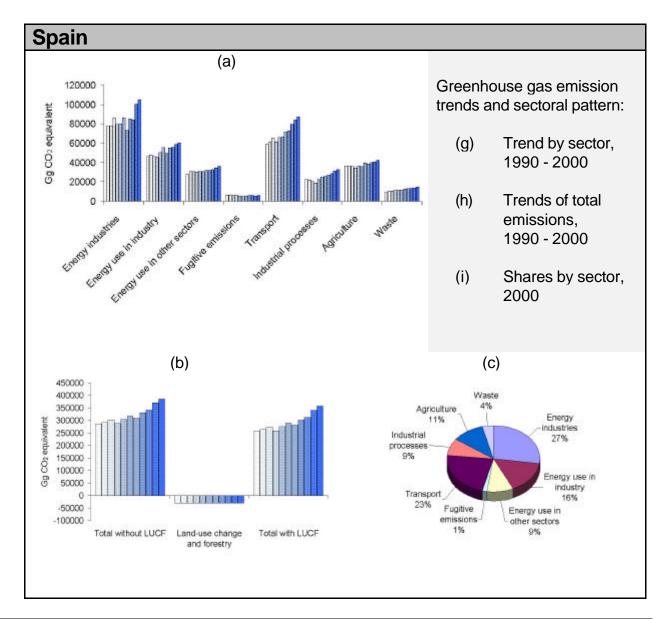


Sector: Energy Industries	Instrument	Status	Implementing Entity
Implementation of combined cycles	Regulatory	Implemented	Slovak Ministry of Economy SEA
Increase in energy efficiency	Regulatory and economic		National
Utilisation of renewable energy sources	Regulatory	Implemented	Slovak Ministry of Economy SEA
Decrease in of fossil fuel consumption	Regulatory and technical		National
Treatment of animal excrements to biogas	Other	Implemented	Slovak Ministry of Agriculture SR
	unclear		National

Page 69 FCCC/WEB/2002/7

Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Thermal insulation of buildings Reduction of final energy consumption in sectors MVV & RR	Regulatory Regulatory and technical	Implemented	MVV & RR SR National
Sector: Transport	Instrument	Status	Implementing Entity
Shifting of services from individual to public transport	Regulatory	Adopted	Slovak Ministry of Transport, Posts and Telecommunication
Decrease in fossil fuel consumption Environmental protection	Regulatory and technical		National
Sector: Agriculture	Instrument	Status	Implementing Entity
Reduction of the livestock number Intensification of agricultural production. Harmonisation	Regulatory	Implemented	Slovak Ministry of Agriculture SR National
with EU legislation			
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Afforestation of non-forested areas Afforestation	Regulatory	Implemented	Slovak Ministry of Agriculture National
Regulation of timber extraction Reforestation	Regulatory	Implemented	Slovak Ministry of Agriculture National
Reforestation			манопаі
Protection of carbon stocks in soils	Regulatory	Implemented	Slovak Ministry of Agriculture Slovak Ministry of Agriculture
Increase of soil carbon stock			National
Sector: Other	Instrument	Status	Implementing Entity
Act No. 309/1991 Coll. on Protection of the Air	Regulatory	Implemented	Slovak Ministry of Environment Environmental
Reduction of emissions of the basic pollutants	Regulatory and economic		National

FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
National energy R&D plan	Research	Implemented	Ministry of Economy, Ministry of Science and Technology
Promotion of less polluting energy technologies			national
PASCER: Programme for energy savings, energy efficiency, cogeneration and renewable energy of Castilla and Leon	Economic	Adopted	Government of Castilla y Leon - EREN
Energy savings, substitution of fossil fuels, diversification, increase share of renewable energy	subsidies		regional
Sector: Energy Industries	Instrument	Status	Implementing Entity
Bonus system for green electricity production Increase market competitiveness for less polluting electricity production.	Economic Bonus system	Implemented Real Decreto de Regimen Especial de la	Ministry of Economy national

Page 71 FCCC/WEB/2002/7

		Ley 54/1997 del Sector Electricidad	
Promotion of renewable energy	Economic	Implemented	Ministry of Economy, Ministry of Science and Technology
Increase share of renewable energy in electricity production from 6.3% in 1998 to 12% in 2010	subsidies, tax rebates	FPER: Plan de Formento de las Energias Renovables, abrobado el 20. Dec 1999	national
Wind power plan of Castilla and Leon	Other	Adopted	Government of Castilla y Leon - EREN
Promotion of wind power	Plan		regional
Solar Plan of Castilla and Leon, Line I	Economic	Adopted	Government of Castilla y Leon - EREN
Increase number of thermosolar energy installations by a factor of 38.	subsidies, technical standards, low interest credits		regional
Solar Plan of Castilla and Leon, Line II	Economic	Adopted	Government of Castilla y Leon - EREN
Promotion of photovoltaic energy	subsidies		regional
Promotion of renewable energy	Regulatory	Adopted	Ministry of Agriculture
	<i>U</i> ,	•	and other Departments
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha).	Normative-econ omic	•	and other Departments national
Increase amount of surface destinated for the production of renewable energy from biomass (800,000	Normative-econ	Status	=
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha).	Normative-econ omic	Status Adopted	national
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha). Sector: Energy Use in Other Sectors Regulation for building heating systems Improve energy efficiency of heating systems Allocation of expenses to individual users of	Normative-econ omic Instrument Regulatory Information/		Implementing Entity Public Administration
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha). Sector: Energy Use in Other Sectors Regulation for building heating systems Improve energy efficiency of heating systems	Normative-econ omic Instrument Regulatory	Adopted	Implementing Entity Public Administration national
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha). Sector: Energy Use in Other Sectors Regulation for building heating systems Improve energy efficiency of heating systems Allocation of expenses to individual users of central heating systems	Normative-econ omic Instrument Regulatory Information/ Education	Adopted	Implementing Entity Public Administration national End consumer
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha). Sector: Energy Use in Other Sectors Regulation for building heating systems Improve energy efficiency of heating systems Allocation of expenses to individual users of central heating systems Reduce heating demand in private households Energy certification of new buildings	Normative-econ omic Instrument Regulatory Information/ Education Advisory booklet	Adopted Adopted	Implementing Entity Public Administration national End consumer national Public Administration
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha). Sector: Energy Use in Other Sectors Regulation for building heating systems Improve energy efficiency of heating systems Allocation of expenses to individual users of central heating systems Reduce heating demand in private households Energy certification of new buildings Reduce energy consumption of new buildings	Normative-econ omic Instrument Regulatory Information/ Education Advisory booklet Regulatory	Adopted Adopted	Implementing Entity Public Administration national End consumer national Public Administration national Implementing Entity Ministry for Public
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha). Sector: Energy Use in Other Sectors Regulation for building heating systems Improve energy efficiency of heating systems Allocation of expenses to individual users of central heating systems Reduce heating demand in private households Energy certification of new buildings Reduce energy consumption of new buildings Sector: Transport	Normative-econ omic Instrument Regulatory Information/ Education Advisory booklet Regulatory Instrument	Adopted Adopted Status	Implementing Entity Public Administration national End consumer national Public Administration national Implementing Entity
Increase amount of surface destinated for the production of renewable energy from biomass (800,000 - 1,000,000 ha). Sector: Energy Use in Other Sectors Regulation for building heating systems Improve energy efficiency of heating systems Allocation of expenses to individual users of central heating systems Reduce heating demand in private households Energy certification of new buildings Reduce energy consumption of new buildings Sector: Transport Development of the high speed rail system Promotion of rail transport: increase the overall energy efficiency of transport by shifting air travel and road	Normative-econ omic Instrument Regulatory Information/ Education Advisory booklet Regulatory Instrument Economic	Adopted Adopted Status	Implementing Entity Public Administration national End consumer national Public Administration national Implementing Entity Ministry for Public Works, Buildings etc.

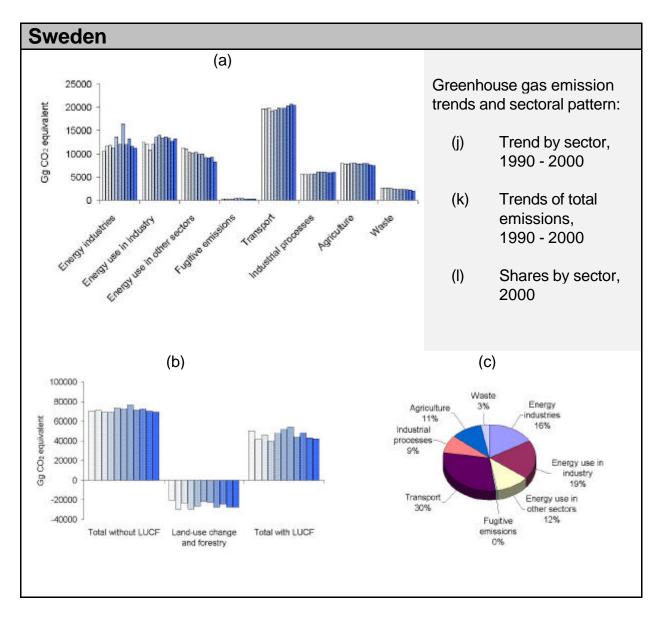
vehicles to public transportation

Improvement of vehicle fleet	Regulatory	Implemented	Ministry for Public Works, Buildings etc.
Improve energy efficiency and reduce air pollution in road transport.	Normative- economic		national
Improvement of air traffic control systems	Regulatory	Implemented	Ministry for Public Works, Buildings etc., EU
Improve energy efficiency of air travel	Normative- economic		national
Modernisation of aircraft fleet	Regulatory	Implemented	Ministry for Public Works, Buildings etc., EU
Improve energy efficiency of air travel			national
Sector: Agriculture	Instrument	Status	Implementing Entity
Start of action programme in vulnerable areas	Information/ Education	Adopted	General secretariat of Agriculture and Ministry of Environment, coordinated by Ministry of Agriculture
Reduce the use of mineral fertilizer according to good practices in agriculture.	Voluntary agreements		national
Agro-environmental standards	Regulatory	Adopted	Ministry of Agriculture
Ban of burning crop residues	Disregard leads to suspedition from EU subsidies for farmers.		national
Agro-environmental standards	Regulatory	Adopted	Ministry of Agriculture
Maintenance of land set-aside	Disregard leads to suspedition from EU subsidies for farmers.		national
Rural Development Plan: Reforestation of cultivable land	Regulatory	Adopted	Ministry of Agriculture
Forestation of 22,000 ha/a of cultivable land			national
Coordination of agricultural policy with other	Voluntary Agreement	Adopted	Ministry of Agriculture and other Departments
Substitution of mineral fertilizer with sewage sludge			national
Coordination of agricultural policy with other	Voluntary Agreement	Adopted	Ministry of Agriculture and other Departments
Substitution of mineral fertilizer with solid urban waste			national
Quality improvement of forage for intense livestock farming (digestibility)	Voluntary Agreement	Other	Ministry of Agriculture and Communities
Reduction of methane		Under investigation	national
Reforestation	Other	Adopted	Ministry of Agriculture

Increase of carbon bound by biomass

and Communities national

Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Forestation	Other	Adopted	Ministry of Agriculture and Communities
Afforestation / reforestation of agricultural land, forest management	Planned in Spanish Forestry Plan		national
Sector: Waste	Instrument	Status	Implementing Entity
Elimination programme, National Urban Waste Capture and use of biogas.	Regulatory Normative- economic	Adopted	Local Administrations local
Composting programme, National Urban Waste Use of biowaste for compost production	Regulatory Normative- economic	Adopted	Local Administrations local



Sector: Energy	Instrument	Status	Implementing Entity
Energy tax Affects energy use in all sectors	Fiscal	Implemented since 1957	RSV National Tax Board national
VAT on energy	Fiscal	Implemented since 1990	RSV National Tax Board national
Reform of the electricity market	Fiscal	Implemented	STEM National Energy Administration
Makes the electricity market more a part of the market economy and involves joint regulation of the North European electricity markets		since 1996	national
Procurement of new energy technology	Economic	Implemented	STEM National Energy Administration
		from 1998 to 2002	national

Page 75 FCCC/WEB/2002/7

Sector: Energy Industries	Instrument	Status	Implementing Entity
Taxes on electricity production	Fiscal	Implemented	RSV National Tax Board national
Energy and environmental tax exemption on biomass fuels, inc. peat	Fiscal	Implemented	RSV National Tax Board
oromass racis, mer pear		since 1994	national
Tax on landfill (described elsewhere in table as part of waste programme) Increase renewable electricity generation	Economic	Implemented from 1998 to	STEM National Energy Administration national
, ,		2002	
Operating subsidies for small-scale electricity generation	Economic	Implemented	STEM National Energy Administration
		since 2000	national
Conversion from electric heating to district	Economic	Implemented	STEM National Energy Administration
Reduce energy consumption		from 1998 to 2002	national
Measures to develop electric heating supply in southern Sweden	Economic	Implemented	DESS Commission on Energy Supply in South Sweden
Need to compensate for electricity shortfall caused by closure of Barsebäck		1998 to 2001	regional
Quota-based trade in certificates	Regulatory	Planned	STEM National Energy Administration
Stimulate production of renewable electricity		from 2003 on	national
Planning objectives for wind power production	Other	Planned	STEM National Energy Administration
Improve the scope for a dramatic expansion of wind power use in Sweden			national
Sector: Energy Use in Other Sectors	Instrument	Status	Implementing Entity
Planning, Building and Housing Act	Regulatory	Implemented	BoV National Board of Housing, Building and Planning
Reduce energy consumption etc			national
Reduce energy consumption etc	Regulatory	Implemented	BoV National Board of Housing, Building and Planning
Reduced energy consumption			national
Sector: Transport	Instrument	Status	Implementing Entity
Special pilot project exemptions for bio-mass motor fuels	Fiscal	Implemented	F-dep Ministry of Finance/STEM National Energy Administration
Makes biomass fuels more competitive			national
Environmentally differentiated charges for shipping and air traffic	Fiscal	Implemented	N.C.

Tax on landfill (described elsewhere in table as

Sustainable forest management Sector: Waste		Status	National Implementing Entity
Forest Management Certification	Voluntary Agreement	Implemented	SKS National Board of Forestry
Improved forest management and reduced environmental impacts		since 1994	National
Revision of Silvicultural Act and restrictions on N fertilizer use	Regulatory	Implemented	SKS National Board of Forestry
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Cultivation of energy forest			Agriculture national
Start-up grants for energy forests	Economic	Implemented	SJV National Board of
Sector: Agriculture	Instrument	Status	Implementing Entity
The Refrigerants Order Governs the use of refrigerants, including halocarbons	Regulatory	Implemented	NV Swedish Environmental Protection Agency national
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Regional transport subsidies Alleviate the impact of cost differences for long-distance transport from companies in regional support areas	Economic	Implemented	
Tax relief on journeys to and from work Increase the scope for distance working	Economic	Implemented	
Reduce emissions of HC and NO_X from domestic air traffic		from 1989 to 1996	
Environmental tax on domestic air traffic	Fiscal	No longer in place	
Make trams more competitive		•	Administration national
Greater investment in tramway infrastructure	Other	Implemented	Banverket National Rail
Use of renewable energy to run railways Reduce impact of transport system on climate etc	Other	Other	SJ Swedish Railway company national
Reduce fuel consumption etc		since 2000	national
'Transport Quality Assurance' and 'Economical Driving' transport projects	Other	Implemented	VV Volvo
Reduce energy consumption by urban and regional planning			Planning national
Comprehensive municipal planning	Regulatory	Implemented	BoV National Board of Housing, Building and
N.C.		since 1998	

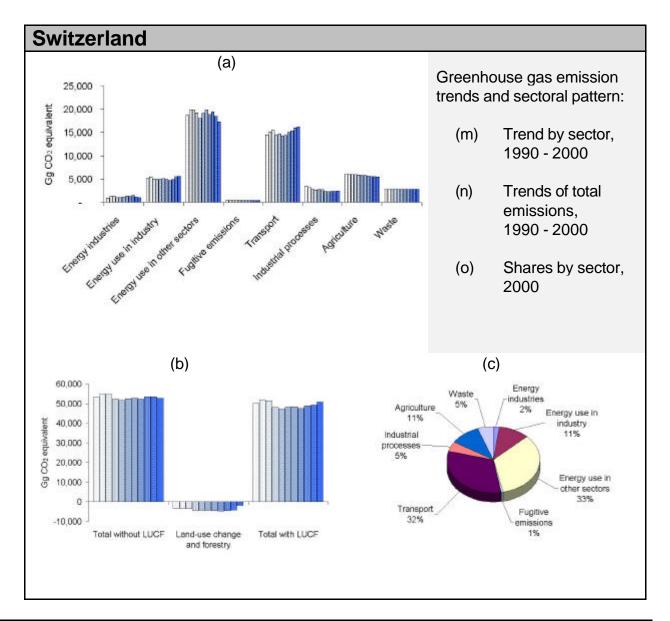
Fiscal

Implemented

Page 77 FCCC/WEB/2002/7

Waste generation and management		since 2000	
waste generation and management		5,,,,,,,	
Collection of landfill gas	Voluntary Agreement	Implemented	Kom: municipalities, LS: county administrative boards
Reduce methane evaporation	Voluntary or negotiated measures	since 1994	regional
Ban on landfill of organic waste	Regulatory	Adopted	NV Swedish Environmental Protection Agency
More stable landfills and use of waste as a resource		no longer in place	national
Ban on landfill of sorted burnable waste	Regulatory	Adopted	NV Swedish Environmental Protection Agency
Improvement in disposal of all burnable waste		since 2002	national
Waste Tax Act	Fiscal	Implemented	NV Swedish Environmental Protection Agency
Reduce the quantity of landfilled waste		since 2000	national
Landfill Directive	Regulatory	Implemented	NV Swedish Environmental
Compulsory collection of landfill gas		since 2001	Protection Agency national
Compulsory collection of landfill gas Sector: Cross-Sectoral	Instrument	since 2001 Status	= -
	Instrument Fiscal		national
Sector: Cross-Sectoral Carbon dioxide tax Trade in emission rights		Status Implemented	Implementing Entity RSV National Tax Board national STEM National Energy Administration
Sector: Cross-Sectoral Carbon dioxide tax	Fiscal	Status Implemented since 1991	Implementing Entity RSV National Tax Board national STEM National Energy
Sector: Cross-Sectoral Carbon dioxide tax Trade in emission rights Increased use of management by objectives in climate	Fiscal	Status Implemented since 1991	Implementing Entity RSV National Tax Board national STEM National Energy Administration national F-dep Ministry of
Sector: Cross-Sectoral Carbon dioxide tax Trade in emission rights Increased use of management by objectives in climate policy	Fiscal Economic	Status Implemented since 1991 Planned	Implementing Entity RSV National Tax Board national STEM National Energy Administration national
Sector: Cross-Sectoral Carbon dioxide tax Trade in emission rights Increased use of management by objectives in climate policy Continuing shifts in the emphasis of taxation Increase the effects of the tax system on	Fiscal Economic	Status Implemented since 1991 Planned Planned from 2002 to	Implementing Entity RSV National Tax Board national STEM National Energy Administration national F-dep Ministry of Finance
Sector: Cross-Sectoral Carbon dioxide tax Trade in emission rights Increased use of management by objectives in climate policy Continuing shifts in the emphasis of taxation Increase the effects of the tax system on environmental behaviour	Fiscal Economic Fiscal	Status Implemented since 1991 Planned Planned from 2002 to 2010	Implementing Entity RSV National Tax Board national STEM National Energy Administration national F-dep Ministry of Finance national

part of waste programme)



Sector: Energy	Instrument	Status	Implementing Entity
CO ₂ Law	Voluntary Agreement	Implemented	Swiss Agency for the Environment, Forests and Landscape
Setting targets and timetables for reduction of CO ₂ emissions (combustible fuels and petrol/diesel)	Framework legislation: voluntary, with option for economic incentive tax;	In force since 1May 2000	national
'Swiss Energy' Action Plan	Voluntary Agreement	Implemented	Swiss Federal Office of Energy, cantons, partners in public sector, partners in private sector
10% reduction of fossil fuel use from 2000 to 2010		Implemented since 1990	national, cantonal

Page 79 FCCC/WEB/2002/7

Cantonal and communal energy laws	Regulatory	Implemented	Swiss cantons and communal entities
Adapt the Swiss Energy Law	Framework legislation: institutional, economic and regulatory	Continuously implemented	cantonal and communal
CO ₂ tax	Economic	Adopted	Swiss Agency for the Environment, Forests and Landscape
Reduction of CO ₂ emissions according to legal requirements		Adopted in the law on CO ₂ reduction	national
Ecological tax reform Shifting tax burdens from labour to energy use	Fiscal Economic/ energy levy and reduction of wage costs	Planned Possible decision in 2004 together with CO ₂ tax	Swiss government national
Sector: Energy Industries	Instrument	Status	Implementing Entity
Increase share of renewable energy	Voluntary Agreement	Implemented	Swiss Federal Office of Energy, cantons, partners in public sector, partners in private sector
Increase of 3 TWh renewable heat production and 0.5 TWh electricity until 2010 by promotion activities	Subsidies	Implemented since 1990	national, cantonal
Law on electricity market	Regulatory	Adopted	Swiss Federal Office of Energy
Law on electricity market Support of renewable energy use on the electricity market	Regulatory Institutional	Adopted by parliament in 2000; subject to public referendum in 2002	
Support of renewable energy use on the electricity		Adopted by parliament in 2000; subject to public referendum in	Energy
Support of renewable energy use on the electricity market	Institutional	Adopted by parliament in 2000; subject to public referendum in 2002	Energy national
Support of renewable energy use on the electricity market Sector: Energy Use in Other Sectors	Institutional Instrument	Adopted by parliament in 2000; subject to public referendum in 2002	Energy national Implementing Entity Swiss Federal Office of Energy, cantons, partners in public sector, partners
Support of renewable energy use on the electricity market Sector: Energy Use in Other Sectors Energy efficiency in the building sector Implementation of Swiss Energy Law (labeling,	Institutional Instrument Regulatory	Adopted by parliament in 2000; subject to public referendum in 2002 Status Implemented	Implementing Entity Swiss Federal Office of Energy, cantons, partners in public sector, partners in private sector
Support of renewable energy use on the electricity market Sector: Energy Use in Other Sectors Energy efficiency in the building sector Implementation of Swiss Energy Law (labeling, co-operation, advice) Energy efficiency programmes in the commercial	Institutional Instrument Regulatory Institutional Voluntary	Adopted by parliament in 2000; subject to public referendum in 2002 Status Implemented Implemented since 1990	Implementing Entity Swiss Federal Office of Energy, cantons, partners in public sector, partners in private sector national, cantonal Swiss Federal Office of Energy, partners in public sector, partners in public sector, partners in
Support of renewable energy use on the electricity market Sector: Energy Use in Other Sectors Energy efficiency in the building sector Implementation of Swiss Energy Law (labeling, co-operation, advice) Energy efficiency programmes in the commercial and industrial sector Models for large-scale consumers to exhaust technical	Institutional Instrument Regulatory Institutional Voluntary	Adopted by parliament in 2000; subject to public referendum in 2002 Status Implemented Implemented since 1990 Implemented	Implementing Entity Swiss Federal Office of Energy, cantons, partners in public sector, partners in private sector national, cantonal Swiss Federal Office of Energy, partners in public sector, partners in public sector, partners in private sector
Support of renewable energy use on the electricity market Sector: Energy Use in Other Sectors Energy efficiency in the building sector Implementation of Swiss Energy Law (labeling, co-operation, advice) Energy efficiency programmes in the commercial and industrial sector Models for large-scale consumers to exhaust technical potentials	Institutional Instrument Regulatory Institutional Voluntary Agreement	Adopted by parliament in 2000; subject to public referendum in 2002 Status Implemented Implemented since 1990 Implemented Implemented since 1990	Implementing Entity Swiss Federal Office of Energy, cantons, partners in public sector, partners in private sector national, cantonal Swiss Federal Office of Energy, partners in public sector, partners in public sector, partners in private sector national

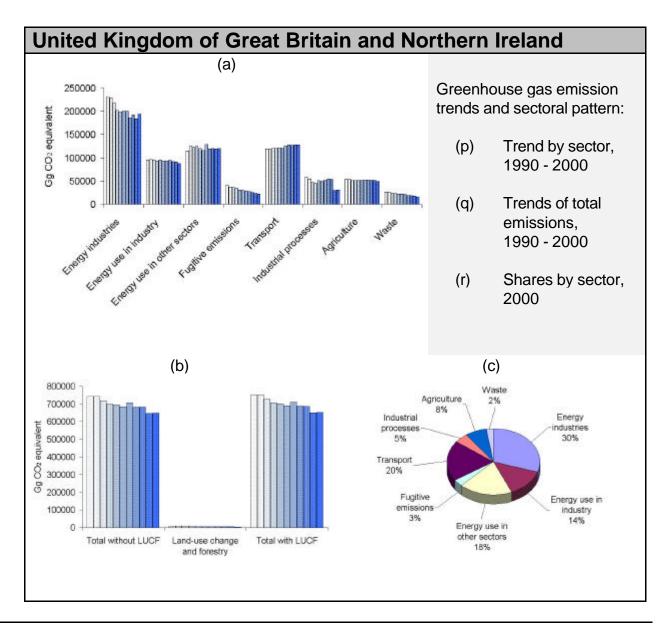
efficient energy use

legislation: institutional, economic and regulatory since 1998

Sector: Transport	Instrument	Status	Implementing Entity
Energy efficiency in the transport sector	Voluntary Agreement	Implemented	Swiss Federal Office of Energy, partners in public sector, partners in private sector
Increase efficient use of fossil fuels		Implemented since 1990	national
HGV fee: Road pricing for heavy-goods-vehicles	Fiscal	Implemented	Swiss Federal Office of Customs, Swiss Federal Road Administration
Modal shift of goods transport from road to rail, reduction of transalpine road transport	Fee	Implemented since 2001	national
Modal split measures in freight transport	Economic	Implemented	Swiss Federal Office of Transport
Modal shift of goods transport from road to rail, reduction of transalpine road transport (supporting the HGV fee) through institutional subsidies	Institutional subsidies	Beginning of implementation in 2000	national
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Ordinances on hazardous substances (Annex 4.16) and spray cans	Regulatory	Implemented	Swiss Agency for the Environment, Forests and Landscape
Ban of persistent synthetic GHG (HFCs, PFCs) in fire extinguishing systems and spray cans		In force since 1995 and 1996, resp.	national
NMVOC charge	Economic	Implemented	Swiss Agency for the Environment, Forests and Landscape
Reduction of Ozone precursors		Implemented since 1997, effective since 1999	national
Ordinance on environmentally hazardous	Regulatory	Planned	Swiss Agency for the Environment, Forests and Landscape
Limitation of production, import, sale, use and emission of persistent halogenated gases	Voluntary Agreement, Institutional	Possible decision in 2002	•
Sector: Agriculture	Instrument	Status	Implementing Entity
Ecological practices on farms	Voluntary Agreement	Implemented	Swiss Federal Office of Agriculture
Reduction in cattle and in the use of mineral fertilizer	Economic	Ongoing implementation since 1993;	national

Page 81 FCCC/WEB/2002/7

Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Education on sustainability and protection of forest areas	Regulatory	Implemented	Swiss Agency for the Environment, Forests and Landscape
Sustainable forest management, no reduction of forest area	Education	Ongoing implementation since 1993	national



Sector: Energy	Instrument	Status	Implementing Entity
Emissions trading scheme (c) All UK companies\ The Government has been working with the Emission Trading Group, involving more than 100 major companies, to develop a UK-wide scheme with the aim to begin trading in 2002. Government made £215 million available over five years from 2003 to help kick start the scheme.	Economic Economic (trading)	Implemented	Government national
Sector: Energy Industries	Instrument	Status	Implementing Entity
Non-Fossil Fuel Obligation (NFFO)			

to achieve the 10 per cent renewables target by 2010 set by the UK Government. The NFFO have successfully established an initial market for renewables and driven down the cost. The approach for NFFO will change to reflect liberalization of energy market.

Renewables Obligation

Electricity generation and supply\ The UK government is prepared to place a renewable obligation on all licensed electricity suppliers to supply their consumers with a specific proportion of electricity from renewable sources as a main tool to achieve at least half of the 10 per cent renewable target in 2010.

Regulatory

Adopted

Industry regulator

(Ofgem)

Private

Sector: Energy Use in Industry	Instrument	Status	Implementing Entity
Climate change agreements and IPPC (a)	Voluntary Agreement	Implemented	Government
Energy use by energy intensive sectors and those regulated by the EC Integrated Pollution Prevention and Control (IPPC) directive\ Energy intensive sectors complying with the EC IPPC (phased in 1999-2007) can obtain 80 per cent discount from the climate change levy if they conclude agreements with challenging targets for improving of energy efficiency.	Voluntary agreements and regulatory		national

Sector: Energy Use in Other Sectors Instrument **Status Implementing Entity** Fiscal **Climate Change levy** Implemented Government Taxation National Energy use by business and public sectors\ The UK introduced the climate change levy in 2001. It applies to the energy used in the business and public sector. It will be broadly revenue neutral, as the revenues will be recycled via lowering of social security contributions and additional support for energy efficiency measures. Renewable energy and energy from CHP are exempted from the levy.

Energy efficiency measures under the climate change levy package (b)

Energy use by business and public sectors\ The UK set up the Carbon Trust in 2001 as a non-profit company to recycle around $\ddot{u} f + ZZ 100$ million of the climate change levy receipts over three years to accelerate the take up of cost effective and low carbon technologies.

Fiscal

Tax incentive

Implemented

Carbon Trust

private

Amendment of Building Regulations (d)

Energy use in buildings\ The energy efficiency requirements of the Building Regulations were under review in 2002 with the aim to adopt a three stages of amendments by 2008 with the goal to further strengthening of these regulations.

Regulatory Adopted

Government

national

Residential energy efficiency, including Energy Efficiency Commitment (EEC) (a)

Energy use in homes\EEC is an obligation on the energy utilities (electricity and gas) to assist consumers

Regulatory

Regulatory and

fiscal (grant

Adopted

Government, Industry regulator (Ofgem) and energy supply companies

national

to take up energy saving opportunities. Around half of the energy benefits from the EEC are focused on priority households, including those receiving health and income benefits. assistance)

Community heating (f)

Energy use in homes\ The UK Government launched a new £50 million Community Energy programme to promote community heating through grants to install new schemes, refurbish obsolete infrastructure and equipment and spread knowledge and good practice. It will add around 130 MW to the UK's CHP target.

Fiscal Implemented

Government, various public and private sector bodies.

national and private

New Home Energy Efficiency Scheme (HEES) (g)

Energy use in homes\ The new HEES has been designed to provide a comprehensive package of heating and insulation improvements for the most vulnerable poor households. The new HEES for England covers around 800,000 households and has a budget of £613 million for 2000-2004. Similar schemes were launched in Scotland (Warm Deal) and in Northern Ireland (Warm Homes).

Fiscal *Fiscal (grant assistance)*

Fiscal (grant

assistance)

Implemented

Government national

Appliance standards and labels (h)

Energy use in homes\ The UK Market Transformation Programme works with businesses, the Energy Saving Trust, the Carbon Trust and other programmes to identify cost-effective measures to stimulate business competition and consumer take up of effective appliances and lighting systems. It includes also new regulatory and negotiated measures relating to the energy performance of consumer products.

Regulatory

Implemented

Government national

Central heating for pensioners and families (i)

Energy use in homes\ The Central Heating Programme was introduced in Scotland in 2001 to provide central heating, advice and other benefits to all council and housing association tenants that lack them and to 40,000 private sector homes with householders aged 60 and over who lacks such systems.

Fiscal *Fiscal (grant assistance)*

Implemented

Scottish Executive regional

Public sector targets (j)

Energy use in public buildings \ A new target was set by the Government in 2000 for on-going CO_2 reduction of 1% per annually compared to 2000 levels. Other targets set included (1) a target to benchmark energy use in all non-office government buildings with more than 50 occupants by 2001; (2) a target for departments to carry out environmental assessment; (3) a target to acquire at least 5% of electricity from renewables, or climate change levy exempt sources by 2003 and at least 10% by 2008; (4) a target for Scotland to purchase 18% from renewable sources by 2010; (5) targeted advise on energy efficient from the Energy Efficiency Best Practice Programme; and (6) a target set by the National Assembly of Wales to reduce

Voluntary Adopted Agreement

Voluntary agreement

national

Public sector

Page 85 FCCC/WEB/2002/7

energy consumption across its estate by 1% annually compared to 2000.

Reform of Building Regulations and public sector targets (i)

Energy use in buildings\ The Scottish executive set a target for energy efficiency for central estate of 5% by 2003 compared to 2000.

Regulatory

Adopted

Scottish Executive

Regulatory and voluntary

agreements

Instrument

Taxation

Implementing Entity

Fuel duty escalator to 1999

Sector: Transport

Transport demand and fuel efficiency\ The fuel duty escalator, annual fuel duty increases above the rate of inflation, was introduced in 1993 at annual rate of 3 per cent above the inflation and then at 5 per cent. As of 1997 it was set at 6 per cent. It was successful as it sent clear signals to all the key players in transport and will bring significant savings by 2010.

Fiscal

Other No longer in

Status

Government

place

National

regional

EU level voluntary agreements on CO₂ from cars, backed up by changes to company car taxation and vehicle excise duty (k)

Vehicle fuel efficiency\ The Government is encouraging a market transformation through a combination of fiscal measures, initiatives to provide cleaner vehicles and the EU CO₂ from cars strategy. The main element of this strategy is the voluntary agreements between the EC and European, Japanese and Korean car manufacturers to reduce average CO₂ emissions from

new cars by at least 25% between 1995 and 2008.

Voluntary Agreement Implemented

Implementing Comment: Government, car manufacturers, European

Commission

Voluntary agreements and fiscal (taxation) national, private and EU

Ten Year Plan (l)

System improvements\ The Ten Year Plan envis ages investment of £180 billion to be made in order to transform the Britain's transport system by (1) improvements in the operational and fuel efficiency of the commercial vehicle fleet; (2) 80% growth in rail freight volumes; (3) substantial improvements to local public transport; and (4) 50% increase in rail patronage measured by passenger kilometers.

Fiscal Fiscal (investment)

Adopted

Government national

Sustainable distribution (m)

System improvements in Scotland\ The Scottish Executive's Transport Delivery Plan envisages substantial investments in the public transport with the aim to deliver a sustainable, efficient and integrated transport system.

Fiscal Fiscal (investment) Adopted

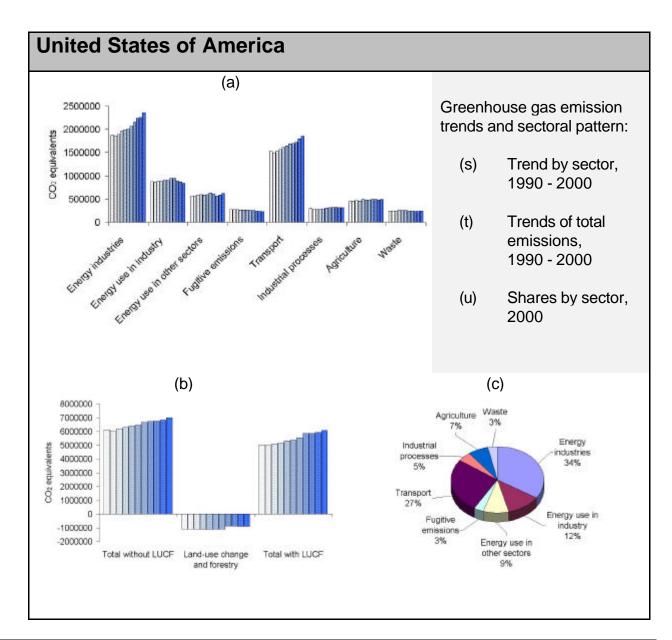
Scottish Executive

regional

Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Afforestation (n)	Fiscal	Implemented	Implementing Comment: Government and devolved administrations.
Extended forest area since 1990	Fiscal (grant assistance)		national

Sector: Waste	Instrument	Status	Implementing Entity
Waste strategy and EU Landfill Directive	Regulatory	Implemented	Government
Waste minimization. The 2000 Waste strategy set out a range of policies to reduce waste production and encourage reuse and recycling. The EC Landfill Directive will affect emissions significantly, as it sets targets on the amount of the biodegradable municipal waste that is landfilled (a reduction by 75 per cent of the total amount by 2010, to 50 per cent by 2013 and by 35 per cent by 2020.	Fiscal		National

Page 87 FCCC/WEB/2002/7



Sector: Energy	Instrument	Status	Implementing Entity
Commercial building	Voluntary Agreement	Implemented	EPA
Promotes the improvement of energy performance in commercial buildings. Realizes energy-saving opportunities provided by whole-building approach during construction and major renovation of existing commercial buildings.			
ENERGY STAR® for the Residential Market Community Energy Program: Rebuild America Residential Building Integration: Building	Voluntary Agreement	Implemented	EPA/DOE
Promotes the improvement of energy performance in residential buildings beyond the labeling of products. Helps communities, towns and cities save energy, create jobs, promote growth, and protect the environment through improved energy efficiency and sustainable	Voluntary, outreach, information, education, research		

building design and operation. Funds, develops, demonstrates, and deploys housing that integrates energy efficiency technologies and practices.

ENERGY STAR®-Labeled Products Label distinguishes energy-efficient products in the	Voluntary Agreement Voluntary,	Implemented	EPA/DOE
marketplace.	outreach		
Residential Appliance Standards Reviews and updates efficiency standards for most major household appliances.	Regulatory	Implemented	DOE
State and Community Assistance: State Energy Program; Weatherization Assistance Program; Community Energy Grants; Information	Economic	Implemented	DOE
Provides funding for state and communities to provide local energy efficiency programs, including services to low-income families; to implement sustainable building design and operation; and to adopt a systematic approach to marketing and communication objectives.	Economic, information		
Economic Incentives/ Tax Credits	Fiscal	Planned	
Provides tax credits to residential solar energy systems.	Economic	Proposed	
Industries of the Future	Voluntary Agreement	Implemented	DOE
Helps nine key energy-intensive industries reduce their energy consumption while remaining competitive and economically strong.	Voluntary, information		
Best Practices Program	Voluntary Agreement	Implemented	DOE
Offers industry tools to improve plant energy efficiency, enhance environmental performance, and increase productivity.	Voluntary, information		
ENERGY STAR® for Industry (Climate Wise)	Voluntary Agreement	Implemented	EPA
Enables industrial companies to evaluate and cost-effectively reduce their energy use.			
Financial Assistance: NICE3 Provides funding to state and industry partnerships for projects that develop and demonstrate advances in energy efficiency and clean production technologies.	Regulatory	Implemented	DOE
Renewable Energy Commercialization: Wind; Solar; Geothermal; Biopower	Regulatory	Implemented	DOE
Develops clean, competitive power technologies using renewable resources.	Research, regulatory		
Climate Challenge	Voluntary Agreement	Implemented	DOE
Promotes efforts to reduce, avoid, or sequester greenhouse gases from electric utilities.			

Page 89 FCCC/WEB/2002/7

Distributed Energy Resources (DER)	Information/ Education	Implemented	DOE
Focuses on technology development and the elimination of regulatory and institutional barriers to	Information, research, education, regulatory		
Hydrogen Program Enhances and supports the development of cost-competitive hydrogen technologies and systems to reduce the environmental impacts of their use.	Research, education	Implemented	DOE
Clean Energy Initiative: Green Power Partnership; Combined Heat and Power Removes market barriers to increased penetration of cleaner, more efficient energy supply.	Voluntary Agreement Voluntary, education, technical assistance	Implemented	EPA
Nuclear Energy Plant Optimization Recognizes the importance of existing nuclear plants in reducing greenhouse gas emissions.	Information/ Education Information, technical assistance	Implemented	DOE
Carbon Sequestration Develops new technologies for addressing cost-effective management of CO_2 emissions from the production and use of fossil fuels.	Regulatory	Implemented	DOE
Hydropower Program Improves the technical, societal, and environmental	Information/ Education <i>Information</i> ,	Implemented	DOE
benefits of hydropower.	research		
Economic Incentives/ Tax Credits Provides tax credits to electricity generated from wind- and biomass-based generators.	Fiscal Economic	Planned Proposed	
USDA CCC Bioenergy Program Encourages bioenergy production through economic incentives to commodity producers.	Economic	Implemented	USDA
Enabling Technologies	Information/ Education	Implemented	DOE
Addresses the critical technology challenges partners face for developing materials and production processes.	Information, research		
Development of Next- Generation Nuclear Energy Systems: Nuclear Energy Research Initiative; Generation IV Initiative Support Deployment of New Nuclear Power Plants in the United States	Research	Implemented	DOE
Supports research, development, and demonstration of an advanced nuclear energy system concept. Ensures the availability of near-term nuclear energy options that can be in operation in the U.S. by 2010.	Research, technical assistance, information		

Sector: Transport	Instrument	Status	Implementing Entity
FreedomCAR Research Partnership Promotes the development of hydrogen as a primary fuel for cars and trucks.	Research Research, information	Implemented	DOE
Vehicle Systems R&D, Clean Cities, Clean Automotive Technology	Voluntary Agreement	Implemented	DOE/EPA
Promotes the development of cleaner, more efficient passenger vehicles. Supports public-private partnerships to deploy alternative-fuel vehicles and builds supporting infrastructure, including community networks. Develops advanced clean and fuel-efficient automotive technology.	Research, information, voluntary		
Biofuels Program	Information/ Education	Implemented	DOE
Researches, develops, demonstrates, and facilitates the commercialization of biomass-based, environmentally sound fuels for transportation.	Information, research		
Commuter Options Programs	Voluntary Agreement	Implemented	EPA/DOT
Reduces single-occupant-vehicle commuting by providing incentives and alternative modes, timing, and locations for work.	Voluntary agreements, tax incentives, information, education, outreach		
Smart Growth and Brownfields Policies Reduces motorized trips and trip distance by promoting more efficient location choice.	Other Technical assistance, outreach	Implemented	EPA
Ground Freight Transportation Initiative	Voluntary Agreement	Adopted	EPA
Increases efficient management practices for ground freight.	Voluntary/negot- ated agreements		
DOT Emission-Reducing Initiatives Provides funding mechanisms for alternative modes to personal motorized vehicles.	Other Funding mechanisms	Implemented	DOT
Sector: Industrial Processes	Instrument	Status	Implementing Entity
Natural Gas STAR Program Coalbed Methane Outreach Program Reduces methane emissions from U.S. natural gas systems through the widespread adoption of industry best management practices. Reduces methane emissions from U.S. coal mining operations through cost-effective means.	Voluntary Agreement Voluntary agreement Information, education, outreach	Implemented	EPA
HFC-23 Partnership Partnership with Aluminum Producers Environmental Stewardship Initiative Encourages reduction of HFC-23 emissions through cost-effective practices or technologies. Encourages reduction of CF ₄ and C ₂ F ₆ where technically feasible	Voluntary Agreement	Implemented	EPA

Page 91 FCCC/WEB/2002/7

and cost-effective. Limits emissions of HFCs, PFCs, and SF_6 in industrial applications.

Sector: Agriculture	Instrument	Status	Implementing Entity
Agricultural Outreach Programs: AgSTAR; RLEP Promotes practices to reduce GHG emissions at U.S. farms.	Information/ Education Information, education, outreach	Implemented	EPA/USDA
Nutrient Management Tools Aims to reduce nitrous oxide emissions through improving by efficiency of fertilizer nitrogen.	Information/ Education Technical assistance, information	Implemented	EPA/USDA
Sector: Land Use Change and Forestry	Instrument	Status	Implementing Entity
Conservation Reserve Program: Biomass Project Encourages land-use changes to increase the amount of feedstock available for biomass projects.	Economic	Implemented (pilot phase)	USDA
Forest Stewardship Sequesters carbon in trees, forest soils, forest litter, and understudy plants.	Other Technical/ financial assistand	Implemented ce	USDA
Sector: Waste	Instrument	Status	Implementing Entity
Climate and Waste Program Encourages recycling, source reduction, and other progressive integrated waste management activities to reduce GHG emissions.	Voluntary Agreement Voluntary agreements, technical assistance, information, research	Implemented	EPA
Stringent Landfill Rule Reduces methane/landfill gas emissions from U.S. landfills	Regulatory S Regulatory	Implemented	EPA
Landfill Methane Outreach Program Reduces methane emissions from U.S. landfills through cost-effective means.	Voluntary Agreement Voluntary agreements, information, education, outreach	Implemented	EPA
Sector: Cross-Sectoral	Instrument	Status	Implementing Entity
Federal Energy Management Program Promotes energy efficiency and renewable energy use in federal buildings, facilities, and operations.	Economic Economic, information, education	Implemented	DOE
State and Local Climate Change Outreach Assists key state and local decision makers in maintaining and improving economic and	Information/ Education Information, education,	Implemented	EPA

Page 92

environmental assets given climate change.

research

- - - -