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PART 3/3

**COMMISSION STAFF WORKING DOCUMENT**

**IMPACT ASSESSMENT**

*Accompanying the document*

**Communication from the Commission to the European Parliament and the Council**

**Energy Efficiency and its contribution to energy security and the 2030 Framework for  
climate and energy policy**

{ COM(2014) 520 final }  
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## Annex VIII. Overview of national energy efficiency measures investigated by Fraunhofer and their expected impact (continued)

GER36	2008	Germany	Industry	Special fund for energy efficiency in SME's (Sonderfonds Energieeffizienz in KMU)	0.800	0.800
GER17	2009	Germany	Cross-Cutting	Renewable Energy Sources Act for Heat (Gesetz zur Förderung Erneuerbarer Energien im Wärmebereich)	0.155	0.217
GER19	2008	Germany	Cross-Cutting	National Energy Efficiency Action Plan (NEEAP) of the Federal Republic of Germany		
GER21	2010	Germany	Cross-Cutting	Sustainability Ordinance for Electricity from Liquid Biomass		
GER28	2012	Germany	Cross-Cutting	Act revising the legislation on renewable energy sources in the electricity sector 2012 (EEG Novel)		
GER29	2008	Germany	Cross-Cutting	National Climate Initiative (Nationale Klimainitiative, NKI)	0.021	0.033
GER30	2010	Germany	Cross-Cutting	Energy concept and accelerated transformation of the energy system ("Energiewende")		
GER47	2008	Germany	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy certificates for buildings		
GER64	2010	Germany	Residential	Smart Metering		0.451
GER65	2008	Germany	Residential	Information Campaign on Climate Protection		
GER67	2014	Germany	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy Savings	0.081	0.311
GER72	2011	Germany	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Energy	0.078	0.221
GER8	2009	Germany	Residential	EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Energiebetrieb	0.800	1.200
GER94	2009	Germany	Residential	KfW-programme "Energy-efficient construction"	0.150	0.225
GER95	2009	Germany	Residential	Energy Saving Ordinance (residential buildings)	2.422	3.583
GER96	2009	Germany	Residential	KfW Energy-efficient Redevelopment	1.194	1.791
GER43	2009	Germany	Industry	ERP Environmental and Energy Efficiency Programme	0.131	0.131
GER25	2009	Germany	Tertiary	Stimulus programme for the promotion of climate protection measures in commercial cooling installations	0.002	
GER29	2008	Germany	Tertiary	Special fund for energy efficiency in SME's (Sonderfonds Energieeffizienz in KMU)	0.222	0.321
GER31	2011	Germany	Tertiary	EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Eco-Design of Energy-using Products	0.251	
GER32	2010	Germany	Tertiary	Smart Metering		
GER33	2008	Germany	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy Certificates for buildings		
GER34	2008	Germany	Tertiary	Information Campaign on Climate Protection		
GER35	2011	Germany	Tertiary	EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - Eco-Design of Energy-using Products	0.400	0.520
GER40	2012	Germany	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy Savings	0.838	1.257
GER41	2012	Germany	Tertiary	Mission E	0.007	0.007
GER25	2008	Germany	Transport	Biomass Sustainability Ordinance		
GER26	2010	Germany	Transport	Statutory Ordinance on Hydrogenation of vegetable oil		
GER28	2008	Germany	Transport	Campaign "Ich und mein auto. Clever fahren, Sprit sparen" ("me and my car. Driving smart, Saving money")		
GER30	2008	Germany	Transport	Aktionsprogramm Mobilitätsmanagement (Promoting mobility, communication and city logistics)		
GER33	2009	Germany	Transport	Car scrapping (Umweltprämie)	0.096	0.088
GER39	2009	Germany	Transport	EU-related: Emission performance standards new passenger cars (Regulation 443/2009/EC) - Acceleration	1.524	1.992
GER5	2011	Germany	Transport	Levy on air traffic (Luftverkehrsabgabe)	0.100	0.100
	2012	Germany	Tertiary	KfW Energy Efficiency Supply of Town Quarters (KfW Energieeffiziente Quartiersversorgung --Kommunale Quartiersversorgung)	0.000	0.000
	n.a.	Germany	Tertiary	KfW Social Investment - Energetic Building Renovation (KfW Sozial Investieren -- Energetische Gebäudesanierung)	0.012	0.017
	2009	Germany	Tertiary	KfW Energy Efficient Rehabilitation of Buildings - Municipalities (KfW Energieeffizient Sanieren -- Kommunale Gebäudesanierung)	0.038	0.057
	2012	Germany	Tertiary	KfW Investment Credit Premium Municipality - efficient street lighting (KfW-Investitionskredit Kommune - effiziente Straßenerleuchtung)	0.005	0.007
	2009	Germany	Tertiary	Future Investments Act (Zukunftsinvestitionsgesetz)	0.165	0.165
	2012	Germany	Industry	KfW Energy Advice SMEs (KfW-Energieberatung Mittelstand = Nachfolgeprogramm Sonderfonds Energieeffizienz)	0.289	0.423
	2013	Germany	Industry	Energy efficiency networks in companies (Energieeffizienz-Netzwerke in Unternehmen)	0.002	0.005
	2014	Germany	Tertiary	Energy Efficiency Fund: Municipal networks (Effizienz-Fonds: Kommunale Netzwerke)	0.000	0.000
	2013	Germany	Industry	Energy Efficiency Fund: Cross-cutting Technologies (Effizienz-Fonds: Querschnittstechnologien)	0.064	0.131

GRE10	2008	Greece	Cross-Cutting	EU Structural Funds 2007-2013: Comprehensive development of ecological public transport		
GRE11	2008	Greece	Cross-Cutting	EU Structural Funds 2007-2013: Comprehensive development of ecological public transport		
GRE15	2011	Greece	Cross-Cutting	EU Structural Funds 2007-2013: Comprehensive development of ecological public transport		
GRE9	2008	Greece	Cross-Cutting	EU Structural Funds 2007-2013: Essential economic infrastructure		
GRE10	2009	Greece	Industry	Promotion of Combined heat and power (CHP) and district heating systems- Industry Sector		
GRE11	2010	Greece	Industry	Creating a "Green Business Parks" - Enhancing Investment projects in Industrial Business Zones (V.I.P.E.) and Innovation Zones		
GRE6	2008	Greece	Industry	Incentives for obligatory implementation of Energy Management Systems		
GRE7	2014	Greece	Industry	GRE7-Promotion of voluntary agreements in industrial sector		
GRE8	2009	Greece	Industry	Installation of electronic and intelligent metering of electricity and natural gas industrial consumers		
GRE9	2012	Greece	Industry	Energy upgrading of existing buildings through third-party financing arrangements (TPF), energy performance contracting and		
GRE2	2008	Greece	Residential	Allocation of heating costs in collective buildings		
GRE12	2012	Greece	Residential	Obligatory installation of central thermal solar systems in residential buildings.		
GRE16	2011	Greece	Residential	"Energy Savings in households" Program		
GRE17	2009	Greece	Residential	"Changing Air-Condition" Program		
GRE15	2010	Greece	Residential	Energy Performance of residential Buildings		
GRE18	2011	Greece	Residential	GRE18-Energy Upgrading of social housing- The "Green Neighborhoods"&#8221; Program		
GRE20	2010	Greece	Residential	Installation of electronic and intelligent metering of electricity and natural gas residential consumers		
GRE21	2012	Greece	Residential	Energy upgrading of existing buildings through Energy Service Companies		
GRE22	2009	Greece	Residential	Promotion of Combined heat and power (CHP) and district heating systems- Residential Sector		
GRE23	2011	Greece	Residential	"Xtizodas to Mellon" Project- Residential sector		
GRE1	2016	Greece	Tertiary	Energy Auditing Procedures, Requirements and Guidelines		
GRE7	2011	Greece	Tertiary	Obligatory replacement of all lighting systems of low energy output in public sector		
GRE8	2008	Greece	Tertiary	Obligatory installation of central thermal solar systems in buildings of tertiary sector		
GRE9	2011	Greece	Tertiary	Energy savings in Local Self-Governments. - "Economize" program		
GRE10	2011	Greece	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy Performance of Buildings of Tertiary sector		
GRE11	2008	Greece	Tertiary	EU-related: Energy Labelling Office Equipment (Energy Star) - Energy Labelling of appliances and minimum energy efficiency		
GRE12	2009	Greece	Tertiary	Installation of electronic and intelligent metering of electricity and natural gas tertiary consumers		
GRE13	2012	Greece	Tertiary	Energy upgrading of existing buildings through third-party financing arrangements (TPF), energy performance contracting and		
GRE14	2009	Greece	Tertiary	Promotion of Combined heat and power (CHP) and district heating systems- Tertiary Sector		
GRE15	2008	Greece	Tertiary	Mandatory procurement procedures (for energy efficient technologies and renewable energy technologies &#8221; green s		
GRE16	2014	Greece	Tertiary	Green roof Application in Public Buildings		
GRE17	2014	Greece	Tertiary	The Program &#8220;Bioclimatic Urban Reformation&#8221;		
GRE18	2014	Greece	Tertiary	Installation of high-efficiency CHP units in conjunction with natural gas cooling systems in hospitals		
GRE19	2014	Greece	Tertiary	Measures for energy efficiency improvements in school buildings		
GRE20	2014	Greece	Tertiary	Measures for energy efficiency improvements in public buildings		
GRE21	2014	Greece	Tertiary	Implementation of an energy management system (EMS) in the tertiary and public sectors		
GRE10	2011	Greece	Transport	Incentives for replacement private vehicles		
GRE11	2010	Greece	Transport	Introduction of Biofuels		
GRE12	2011	Greece	Transport	Energy savings in Local Self-Governments. - "ECONomize" program-transport		
GRE13	2010	Greece	Transport	Taxation of new cars according CO2 emission		
GRE15	2009	Greece	Transport	Promotion of economical, safe and eco-driving		
GRE9	2011	Greece	Transport	Urban mobility plans		
GRE13	2008	Greece	Cross-Cutting	Information system for monitoring energy efficiency and achieved energy savings		
GRE14	2010	Greece	Cross-Cutting	Tax exemptions for energy saving investments		
		Greece	Residential	<b>Measure Package Residential Sector</b>	0.161	0.375
		Greece	Tertiary	<b>Measure Package Tertiary Sector</b>	0.085	0.199
		Greece	Transport	<b>Measure Package Transport</b>	0.041	0.095
		Greece	Cross-Cutting	<b>Increasing excise duty on heating oil consumption</b>	0.096	0.225
HUN20	2008	Hungary	Residential	Residential energy saving programme for 2008		
HUN22	2009	Hungary	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - HU71 Energy performance certificate for new dwelling		
HUN25	2009	Hungary	Residential	Residential energy saving programme for 2009		
HUN26	2009	Hungary	Residential	Green Investment Climate-friendly Home Sub-programme (ZBR-Panel) / Green Investment System Climate friendly Home S		
HUN27	2008	Hungary	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy review of heat producing sets and air condition		
HUN29	2009	Hungary	Residential	Replacement of household appliances subprogramme of the Green Investment System		
HUN11	2008	Hungary	Transport	EU-related: Speed limitation devices for certain categories of motor vehicles (Directive 2002/85/EC) - Speed limits for cars, t		
HUN12	2011	Hungary	Transport	On the facilitation of the procurement of energy efficient public vehicle		
HUN16	2008	Hungary	Cross-Cutting	Integration of the sub-urban railway and public transport system in Riga		
		Hungary	Residential	<b>Measure Package Households</b>	0.251	0.251
		Hungary	Tertiary	<b>Measure Package Public institutions</b>	0.176	0.176
		Hungary	Industry	<b>Measure Package Industry, productive sectors</b>	0.156	0.156
		Hungary	Transport	<b>Measure Package Transportation</b>	0.055	0.055
		Hungary	Cross-Cutting	<b>Measure Package Horizontal and Cross-sectoral (other)</b>	0.048	0.048
	2014	Hungary	Cross-Cutting	Energy saving obligation	0.194	0.633

IRL14	2008	Ireland	Industry	Assessment of Renewable Energy Alternatives at Design Stage		
IRL16	2008	Ireland	Industry	Building Energy Rating		
IRL17	2008	Ireland	Industry	Tax Relief for Energy Saving Equipment - Accelerated Capital Allowance	0.016	0.030
IRL25	2008	Ireland	Residential	Building Regulations 2008	0.104	0.181
IRL27	2009	Ireland	Residential	EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - Ener	0.103	0.103
IRL29	2016	Ireland	Residential	Smart Metering	0.032	0.054
IRL30	2009	Ireland	Residential	Upgrade of Older Housing Stock - Home Energy Savings Scheme & Housing Aid for Older People Se	0.031	0.031
IRL32	2012	Ireland	Residential	Micro CHP		
IRL34	2008	Ireland	Residential	Condensing Boilers - Minimum Boiler Efficiency	0.069	0.103
IRL35	2012	Ireland	Residential	Periodic Mandatory Inspection of Boilers		
IRL40	2011	Ireland	Residential	Building regulations 2011	0.033	0.072
IRL41	2016	Ireland	Residential	Building Regulations - Nearly Zero Energy Homes	0.001	0.019
IRL22	2008	Ireland	Tertiary	Assessment of Renewable Energy Alternatives at Design Stage		
IRL24	2008	Ireland	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Building Energy Rating		
IRL26	2009	Ireland	Tertiary	Energy Efficient Lighting		
IRL28	2008	Ireland	Tertiary	Energy Star		
IRL29	2008	Ireland	Tertiary	Air Conditioning		
IRL30	2008	Ireland	Tertiary	Tax Relief for Energy Saving Equipment - Accelerated Capital Allowance		
IRL33	2008	Ireland	Tertiary	Minimum efficiency standards for boilers		
IRL35	2008	Ireland	Tertiary	2008 Building Regulations - Adjustments to Part L- Conservation of Fuel and Energy		
IRL12	2009	Ireland	Transport	Sustainable Travel and Transport Action Plan		
IRL18	2008	Ireland	Transport	Mineral Oil Tax		
IRL22	2008	Ireland	Transport	EU-related: Promotion of the Use of Biofuels or Other Renewable Fuels for Transport (2003/30/EC)		
IRL23	2010	Ireland	Transport	Private car scrappage scheme		
IRL25	2009	Ireland	Transport	Ecodriving - driver training and licensing		
IRL5	2010	Ireland	Cross-Cutting	Toll Rates for the Use of Motorways		
IRL6	2008	Ireland	Cross-Cutting	Development of public transport network		
IRL42	2011	Ireland	Residential	Better Energy Homes (Residential Retrofit)		
IRL15	2008	Ireland	Transport	EU-related: Emission performance standards new passenger cars (Regulation 443/2009/EC) - ) - Emissions based Annual Mot		
IRL16	2008	Ireland	Transport	EU-related: Emission performance standards new passenger cars (Regulation 443/2009/EC) - ) - Emissions based Vehicle Reg		
IRL20	2008	Ireland	Transport	EU-related: Promotion of Biofuels or other Renewable Fuels for Transport (Directive 2003/30/EC)		
IRL21	2009	Ireland	Transport	National Cycling Policy Framework		
IRL27	2011	Ireland	Transport	Electric Vehicles		
ITA17	2008	Italy	Tertiary	Measure for efficient lighting and control systems		
ITA18	2009	Italy	Transport	Improved Mobility in the Smaller Italian Islands (MINIMI Project) [Mobilità Innovativa Nelle Isole Minori Italiane]		
ITA20	2008	Italy	Transport	Financial package for old vehicles scrapping		
ITA10	2011	Italy	Cross-Cutting	Taxes on gasoline and auto diesel oil		
ITA13	2013	Italy	Industry	Market incentives: white certificates		
ITA13	2013	Italy	Industry	Market incentives: white certificates		
ITA1	2012	Italy	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Energy labelling of household		
ITA28	2009	Italy	Residential	Mandatory use of solar thermal energy in buildings		
ITA32	2011	Italy	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Eco Design Directive, Framew		
ITA32	2011	Italy	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Eco Design Directive, Framew		
ITA33	2013	Italy	Residential	White Certificates		
ITA33	2013	Italy	Residential	White Certificates		
ITA33	2013	Italy	Residential	White Certificates		
ITA33	2013	Italy	Residential	White Certificates		
ITA29	2011	Italy	Residential	EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Standard for efficient lighting and electri		
ITA30	2013	Italy	Residential	Fiscal incentives for energy savings in the household sector:Ecobonus 2014 and tax deduction for r	1.350	1.920
ITA30	2013	Italy	Residential	Fiscal incentives for energy savings in the household sector:Ecobonus 2014 and tax deduction for renovations and appliance		
ITA37	2013	Italy	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy performance of newly erected an		
ITA4	2013	Italy	Tertiary	Design Norms for Thermal Plant Regulation and Metering		
ITA14	2013	Italy	Tertiary	White Certificates		
ITA2	2013	Italy	Cross-Cutting	White certificates: market based instruments promoting energy efficiency	4.140	5.490
ITA11	2013	Italy	Cross-Cutting	Renewable energy for heating & cooling support scheme	0.630	1.470
ITA38	2013	Italy	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Nearly Zero		
ITA39	2013	Italy	Residential	Design Norms for Thermal Plant Regulation and Metering		
ITA40	2013	Italy	Residential	Renewable energy for heating & cooling support scheme		
ITA21	2013	Italy	Tertiary	Renewable energy for heating & cooling support scheme		
ITA22	2013	Italy	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Nearly Zero		
ITA23	2013	Italy	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy		

LV21	2008	Latvia	Industry	Investments in Rural Villages' Energy Supply Systems Utilising Renewables		
LV27	2011	Latvia	Industry	Energy Efficiency Investments in Industrial Heat Supply		
LV27	2009	Latvia	Residential	EU-related Energy Performance of Buildings (Directive 2002/91/EC)		
LV28	2009	Latvia	Residential	Increasing Energy Efficiency in Multi Apartment Buildings	0.014	0.032
LV34	2009	Latvia	Industry	Energy Efficiency Investments in District Heating (Measures to Improve the Efficiency of Centralis	0.055	0.086
LV35	2009	Latvia	Industry	Investments to Produce Energy from Biomass of Agriculture and Forestry Origin		
LV16	2011	Latvia	Industry	Development of CHP Utilising Renewables		
LV19	2011	Latvia	Industry	Agreements on Improving Energy Efficiency by Promoting the Implementation of Industrial Energy Audits and		
LV22	2010	Latvia	Industry	Reduced Excise Duties Rate for Oil Products Mixed with Biofuel and Utilised for Heat Production		
LV23	2008	Latvia	Industry	EU-related: EU Emission Trading Scheme (2003/87/EC) - ETS 2008-2012		
LV24	2012	Latvia	Industry	Complex Solutions for GHG Emissions Reduction in Industrial Buildings	0.009	0.029
LV25	2012	Latvia	Industry	Investments in Renewable Technologies for Heat and Electricity Production to Reduce GHG emissions		
LV26	2010	Latvia	Industry	Energy Efficiency Requirements for District Heating Systems		
LV29	2010	Latvia	Residential	Information Campaign "Live Warmer"		
LV30	2013	Latvia	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy Audits and Energy Cc		
LV31	2012	Latvia	Residential	Grants for Renewable Energy Technologies in Households		
LV32	2014	Latvia	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Improving mini	0.003	0.013
LV33	2010	Latvia	Residential	Increasing Heat Energy Efficiency in Social Apartment Buildings (Measures to Improve the Thermo	0.000	0.001
LV34	2011	Latvia	Residential	Low Energy Building		
LV35	2012	Latvia	Residential	Minimal Energy Efficiency Requirements for Multidwelling Buildings		
LV36	2011	Latvia	Residential	EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - EU-related Recast		
LV3	2008	Latvia	Tertiary	Information campaigns on applying energy efficient electrical equipment		
LV6	2008	Latvia	Tertiary	Implementation of the Exemplary Role of the Public Sector	0.002	0.001
LV6	2015	Latvia	Tertiary	Implementation of the Exemplary Role of the Public Sector	0.001	0.009
LV7	2010	Latvia	Tertiary	Investments in Municipal Public Buildings' Energy Efficiency to Reduce GHG emissions	0.011	0.018
LV8	2011	Latvia	Tertiary	Investments in Complex Solutions for GHG Emissions Reduction in Professional Education Institut	0.003	0.005
LV9	2012	Latvia	Tertiary	Investments in Renewable Technologies for Heat and Electricity Production to Reduce GHG emissions		
LV10	2013	Latvia	Tertiary	Low Energy Buildings		
LV11	2012	Latvia	Tertiary	Investments in Public Territories' Lighting Infrastructure to Reduce GHG Emissions		
LV12	2014	Latvia	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Improving minimum energy		0.023
LV13	2009	Latvia	Tertiary	Green Public Procurement		
LV14	2010	Latvia	Tertiary	Reduced excise duties rate for oil products mixed with biofuel and utilised for heat production		
LV15	2013	Latvia	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy Certification of Non-		
LV16	2010	Latvia	Transport	Integration of the sub-urban railway and public transport system in Riga		0.004
LV19	2010	Latvia	Transport	EU-related: Fiscal Measures to Promote Car Fuel Efficiency - Fiscal Measures to Reduce CO2 emissions of Cars		
LV20	2010	Latvia	Transport	Increasing the Efficiency of the Existing Main Road Network and Planning the Transport System in the City of R		0.007
LV22	2010	Latvia	Transport	Biofuel Mix Obligation		
LV23	2014	Latvia	Transport	Toll Rates for the Use of Motorways		
LV24	2011	Latvia	Transport	Development of public transport network		
LV14	2011	Latvia	Cross-Cutting	Promotion Public Understanding on the Importance and Possibilities of GHG Emissions Reduction		
LV8	2010	Latvia	Cross-Cutting	Preferential Feed-in tariffs for Renewables		
LV9	2009	Latvia	Cross-Cutting	Preferential Feed-in Tariffs for CHP		
LV15	2014	Latvia	Cross-Cutting	Taxation of Subsidized Electricity		
LV41	2009	Latvia	Residential	Increasing Energy Efficiency in Multi Apartment Buildings (Measures to Improve the Thermal		
LV25	2010	Latvia	Transport	EU-related: Promotion of clean and energy-efficient road transport vehicles (Directive		
	2014	Lithuania	Cross-Cutting	Energy efficiency obligation	0.023	0.163
	2014	Lithuania	Cross-Cutting	Complementing measures (financed from structural funds, state budget and other sources)	0.011	0.040
LUX10	2011	Luxembourg	Industry	Voluntary Agreement of 2011	0.009	0.009
LUX3	2012	Luxembourg	Industry	Realising electricity savings potential of industrial cross-cutting technologies	0.005	0.010
LUX5	2010	Luxembourg	Industry	EU-related: Combined Heat Power (Cogeneration) (Directive 2004/8/EC) - Grand Ducal Regulation		
LUX6	2010	Luxembourg	Industry	EU-related: Amended EU Emission Trading Scheme (Directive 2009/29/EC) - Grand Ducal Regulatio		
LUX7	2010	Luxembourg	Industry	EU-related: Integrated Pollution Prevention and Control IPPC (Directive 2008/1/EC) - Grand Ducal		
LUX9	2008	Luxembourg	Industry	Voluntary Agreement of 2008	0.004	0.004
LUX14	2008	Luxembourg	Residential	Old building upgrade programme	0.002	0.002
LUX16	2012	Luxembourg	Residential	Expansion of the upgrading programme for old buildings	0.003	0.003
LUX17	2010	Luxembourg	Residential	Renewal of oldest heating systems	0.001	0.001
LUX18	2012	Luxembourg	Residential	Increase in promotion of efficient new building (new buildings, as against WD2008)	0.000	0.002
LUX19	2009	Luxembourg	Residential	EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Law establishi		
LUX20	2010	Luxembourg	Residential	EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - Law		
LUX24	2010	Luxembourg	Residential	Support of efficiency labelling	0.001	0.002
LUX2	2008	Luxembourg	Tertiary	Improvement in the U-values of the non-domestic buildings (WD2008)	0.008	0.008
LUX3	2011	Luxembourg	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Expansion of the Ordinance	0.017	0.031
LUX4	2012	Luxembourg	Tertiary	Realising electricity savings potential in the TCS sector	0.009	0.016
LUX4	2008	Luxembourg	Cross-Cutting	Further realising of potential for decentralised renewables (excluding biomass)		
LUX6	2010	Luxembourg	Cross-Cutting	Further expansion of decentralised biomass use		
LUX13	2008	Luxembourg	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Ordinance on the energy pe	0.030	0.052
LUX15	2008	Luxembourg	Residential	Promotion of energy-efficient new homes (new building compared with WD2008: low-energy ho	0.001	0.002
LUX21	2012	Luxembourg	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Ordinance on t	0.005	0.014
	2014	Malta	Cross-Cutting	Energy efficiency obligation	0.003	0.010

NLD19	2008	Netherlands	Industry	Long Term Agreements with the industry, third phase (MIA3)		
NLD20	2009	Netherlands	Industry	Heatmaps		
NLD17	2008	Netherlands	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy		
NLD20	2009	Netherlands	Residential	Heat distribution law (warmtewet)		
NLD21	2008	Netherlands	Residential	More with Less plan (Meer met Minder)		
NLD22	2008	Netherlands	Residential	Pilots energy saving for homeowners and private landlords in combination with district approach		
NLD23	2008	Netherlands	Residential	Financial support homeowners		
NLD25	2008	Netherlands	Residential	Covenant energy savings in newly produced buildings (Spring Agreement)		
NLD27	2008	Netherlands	Residential	Covenant energy savings by housing corporations		
NLD19	2010	Netherlands	Tertiary	Internal emission trading system for the greenhouse sector		
NLD20	2008	Netherlands	Tertiary	Taskforce lighting		
NLD18	2008	Netherlands	Transport	Railfreight (Betuwelijn)		
		<b>Netherlands Cross-Cutting</b>		<b>Measure Package Buildings</b>		
		Netherlands		<b>Established policy, households</b>		
		Netherlands Residential		EPC 0.6	0.067	0.141
		Netherlands Residential		Voluntary agreements, existing buildings	0.037	0.073
		Netherlands Residential		Other policy, including energy taxation and SDE supplement	0.062	0.143
		Netherlands Residential		Further than Ecodesign	0.007	0.018
		Netherlands		<b>Established policy, services</b>		
		Netherlands Tertiary		EPC and other national policy	0.042	0.051
		Netherlands Tertiary		Other policy	0.007	0.018
		Netherlands		<b>New policy, households and services</b>		
		Netherlands Cross-Cutting		Owner-occupier sector	0.026	0.060
		Netherlands Cross-Cutting		(Social) rental sector	0.079	0.182
		Netherlands Cross-Cutting		Social and other real estate	0.134	0.313
		<b>Netherlands Industry</b>		<b>Measure Package Industry</b>		
		Netherlands Industry		<b>Established policy, industry</b>		
		Netherlands Industry		Combined impact of existing policy	0.167	0.394
		Netherlands Industry		<b>New policy, industry</b>		
		Netherlands Industry		Energy Investment Allowance (EIA)	0.036	0.109
		Netherlands Industry		Long-term voluntary agreement on energy efficiency, ETS companies (MEE)	0.005	0.012
		Netherlands Industry		Enforcement, MIA3	0.002	0.007
		Netherlands Industry		Enforcement, other industry	0.007	0.031
		Netherlands Industry		Enforcement, building-related consumption, industry	0.026	0.079
		<b>Netherlands Tertiary</b>		<b>Measure Package Agriculture/Horticulture</b>		
		Netherlands Tertiary		<b>Established policy, agriculture/horticulture</b>		
		Netherlands Tertiary		Direct use of solar heat		0.001
		Netherlands Tertiary		LED lighting	0.001	0.007
		Netherlands Tertiary		Avoidance of summer heating	0.001	0.008
		Netherlands Tertiary		Het Nieuwe Tellen [Eccultivation]	0.001	0.010
		Netherlands Tertiary		Better insulation		0.001
		Netherlands Tertiary		<b>Established policy, agriculture/horticulture</b>		
		Netherlands Tertiary		Private system, greenhouse horticulture	0.031	0.053
		<b>Netherlands Transport</b>		<b>Measure Package Transport</b>		
		Netherlands Transport		<b>Established policy transport</b>		
		Netherlands Transport		Construction of loading docks for inland waterway transport	0.000	0.001
		Netherlands Transport		Increase in duty on diesel by 3 ct./l in 2014	0.006	0.013
		Netherlands Transport		Increase in duty on LPG by 7 ct./l in 2014	0.000	0.001
		Netherlands Transport		Electric cars		0.051
		Netherlands Transport		Modal split in freight traffic through port policy	0.002	0.004
		Netherlands Transport		Electric bicycles with 10% car replacement (or autonomous)		
		Netherlands Transport		Continuation of more fuel-efficient driving among new drivers	0.005	0.012
		Netherlands Transport		Continuation of incentives for fuel-efficient cars	0.028	0.066
PL6	2008	Poland	Tertiary	Increasing the proportion of energy saving products available in the market		
PL10	2009	Poland	Transport	Toll on highways		
PL11	2009	Poland	Transport	Vehicle taxation		
PL8	2009	Poland	Transport	Fuel Tax		
PL3	2008					
PL10	2011	Poland	Industry	Priority Programme "Efficient use of energy. Part I" - Grants for energy audits in industrial enterprises		
PL11	2011	Poland	Industry	Priority Programme "Efficient use of energy. Part II" - Soft loans support for investments decrease	0.105	0.114
PL12	2011	Poland	Industry	Polish Sustainable Energy Financing Facility (PolSEFF)	0.012	0.012
PL13	2012	Poland	Industry	Priority Programme "Smart Grids"		
PL8	2008	Poland	Industry	2007 to 2013 Infrastructure and Environment Operations Programme and Regional Operations Pro	0.023	0.023
PL9	2008	Poland	Industry	2007 to 2013 Infrastructure and Environment Operations Programme and Regional Operations Pro	0.008	0.008
PL11	2009	Poland	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Certificates of energy perfor		
PL9	2010	Poland	Residential	Promotion of solar collectors in households sector		
PL10	2014	Poland	Residential	Requirements for new and modernised buildings		
PL2	2014	Poland	Tertiary	Technical Requirements for Buildings and their Location		
PL13	2010	Poland	Tertiary	Green Investment Scheme, Part 5 – Energy Management in Buildings of Selected Public Sector Ent	0.008	0.014
PL13	2010	Poland	Tertiary	Green Investment Scheme, Part 5 – Energy Management in Buildings of Selected Public Sector Ent		
PL12	2010	Poland	Tertiary	Green Investment Scheme, Part 1 - energy management in public buildings	0.192	0.268
PL14	2013	Poland	Tertiary	Programme "Energy Savings and Renewable Energy Sources Promotion" (under the EEA Financial		
PL9	2008	Poland	Tertiary	Infrastructure and Environment Operations Programme and the Regional Operations Programme	0.015	0.010
PL11	2011	Poland	Tertiary	Exemplary role of public sector		
PL2	2008	Poland	Transport	Traffic management system and transport of goods optimisation	0.044	0.044
PL3	2014	Poland	Transport	Fleet replacement program in public transport and the promotion of eco driving	1.082	2.016
PL12	2013	Poland	Cross-Cutting	System of white certificates - Energy efficiency Act	1.100	1.100
PL9	2012	Poland	Cross-Cutting	Information campaigns, training and education	0.030	0.030
		Poland	Cross-Cutting	Operational Programme PL04	0.016	0.016
		Poland	Cross-Cutting	LEMUR (by National Fund for Environmental Protection)	0.006	0.012
		Poland	Tertiary	Regional Operational Programmes 2007-2013 (public sector)	0.044	0.044
		Poland	Tertiary	Regional Operational Programmes 2014-2020 (public sector)	0.015	0.033
		Poland	Cross-Cutting	Operational Programme Infrastructure and Environment 2014-2020	0.003	0.006
		Poland	Cross-Cutting	Green Investment Scheme (SOWA) part 6) - by National Fund for Environmental Protection	0.003	0.003
		Poland	Cross-Cutting	Operational Programme Infrastructure and Environment (activity 9.4 - Energy Generation from RE	0.002	0.002
		Poland	Cross-Cutting	Regional Operational Programmes 2007-2013 (private sector)	0.010	0.010
		Poland	Cross-Cutting	Regional Operational Programmes 2014-2020 (private sector)	0.003	0.008
		Poland	Cross-Cutting	Operational Programme Infrastructure and Environment 2014-2020	0.006	0.013

POR4	2008	Portugal	Industry	Intensive Energy Consumption Management System (SGCIE)		
POR15	2008	Portugal	Residential	Detracting people from acquiring new inefficient equipment		
POR16	2008	Portugal	Residential	Equipment replacement		
POR17	2008	Portugal	Residential	Remodelling Measures		
POR18	2008	Portugal	Residential	Efficiency in Residential Buildings		
POR19	2008	Portugal	Residential	Renewable at the Time: Micro generation		
POR20	2008	Portugal	Residential	Renewable at the Time: Solar Thermal Program		
POR14	2008	Portugal	Tertiary	Office Equipment Renewal		
POR13	2008	Portugal	Tertiary	Efficiency in Office Buildings		
POR11	2009	Portugal	Transport	Programme for Electric Mobility in Portugal		
POR13	2009	Portugal	Transport	State vehicle park procurement rules: Fleet renewal and CO2 emission limits		
POR14	2008	Portugal	Transport	Reviving the decommissioning programme for end-of-life vehicles		
POR15	2008	Portugal	Transport	Green Taxes – Review of the private vehicle tax regime (PNAC 2006 Measure)		
POR16	2008	Portugal	Transport	Right Tyre and Fuel Efficiency		
POR17	2008	Portugal	Transport	New vehicles more "aware" of fuel savings		
POR18	2008	Portugal	Transport	Regional Planning and Urban Mobility in District Capitals		
POR19	2008	Portugal	Transport	Urban Mobility Plans in office parks and industrial parks		
POR20	2008	Portugal	Transport	Use of more energy efficient transport		
POR7	2010	Portugal	Cross-Cutting	Speed Limits and Active Traffic Management		
		Portugal	Transport	Measure Package Transport	0.026	0.058
		Portugal	Residential	Measure Package Residential	0.103	0.213
		Portugal	Industry	Measure Package Industry	0.069	0.138
		Portugal	Tertiary	Measure Package Public Sector	0.035	0.083
RO22	2009	Romania	Residential	Individual billing of the consumers supplied by public district heating systems		
RO29	2008	Romania	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Energy efficiency improve		
RO39	2012	Romania	Residential	Renewable energy use - The GREEN HOUSE Program		
RO10	2008	Romania	Industry	EU-related: EU Emission Trading Scheme (2003/87/EC) - Implementation of greenhouse gas emission trading in Romania		
RO11	2009	Romania	Industry	EU-related: Combined Heat Power (Cogeneration) (Directive 2004/8/EC) - The promotion of CHP's		
RO2	2008	Romania	Industry	Improvement of Energy Efficiency amongst industrial operators through the signing of long-term agreements (LTAs)		
RO3	2009	Romania	Industry	The improvement of energy efficiency in industrial operators		
RO7	2010	Romania	Industry	Grant-supported credit line for Romania that has been established by the European Commission and the European Bank for		
RO7	2008	Romania	Tertiary	Improvement of public lighting system		
RO8	2012	Romania	Tertiary	Renewable energy use - The GREEN HOUSE Program		
RO9	2008	Romania	Tertiary	EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Promoting the development of energy st		
RO11	2009	Romania	Tertiary	EU-related: Energy Labelling Office Equipment (Energy Star) - Promote the use of energy efficient household appliances an		
RO12	2011	Romania	Tertiary	Increase efficiency and reduce consumption of water supply facilities		
RO13	2010	Romania	Tertiary	Making local energy planning		
RO3	2010	Romania	Cross-Cutting	Promotion of high efficiency cogeneration		
	2014	Romania	Cross-Cutting	Alternative policy measures for the implementation of Art. 7 (EED)	0.314	1.027
SK10	2011	Slovakia	Industry	Mandatory Energy Audits in Industry and Agriculture		
SK13	2011	Slovakia	Industry	Promotion of energy efficiency in Industry - SLOVSEFF II		
SK9	2008	Slovakia	Industry	Operational Programme "Competitiveness and Economic Growth" priority line Energy, Measure 1.1 - Innovations and techn		
SK10	2012	Slovakia	Residential	Mandatory technical requirements on insulation of heating and domestic hot water distribution pipes		
SK11	2008	Slovakia	Residential	Hydronic balancing of the heating and domestic hot water systems		
SK17	2009	Slovakia	Residential	Information campaign Live with Energy - EU Structural Funds, OP Competitiveness and Economic Growth, Measure 2.2		
SK9	2011	Slovakia	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Act on labelling of energy rel		
SK13	2008	Slovakia	Tertiary	Improvement of thermal technical properties of buildings including technical equipment - Eko Fund		
SK18	2011	Slovakia	Tertiary	Improvement of thermal technical properties of buildings - Public buildings - Pilot project for energy efficiency of public bu		
SK21	2009	Slovakia	Tertiary	Information campaign and energy advice services Live with Energy - EU Structural funds, OP Competitiveness and Economic		
SK8	2011	Slovakia	Transport	EU-related: Promotion of clean and energy-efficient road transport vehicles (Directive 2009/33/EC) - Act on promotion of er		
SK9	2009	Slovakia	Transport	Modernization of passenger cars fleet - scrappage scheme		
SK12	2009	Slovakia	Cross-Cutting	Low carbon buses & SAFED bus driver training		
SK14	2009	Slovakia	Cross-Cutting	EU-related: Fiscal Measures to Promote Car Fuel Efficiency - Company Car Taxation		
SK19	2008	Slovakia	Cross-Cutting	Speed limits		
SK20	2008	Slovakia	Cross-Cutting	Subsidies for vehicles with alternative propulsion		
SK21	2008	Slovakia	Cross-Cutting	Energy efficient urban transport		
SK23	2011	Slovakia	Cross-Cutting	Investments for cleaner transport (Environmental protection and energy efficiency Fund)		
SK24	2010	Slovakia	Cross-Cutting	EU-related: Energy labelling of tyres (Regulation 1222/2009/EC) - Law for the implementation of energy labelling of tyre		
SK24	2010	Slovakia	Cross-Cutting	Creating Infrastructure for using bicycles		
	2014	Slovakia	Cross-Cutting	Energy efficiency obligation	0.152	0.427
	2014	Slovakia	Cross-Cutting	Complementary policy measures	0.029	0.082
	2014	Slovenia	Cross-Cutting	Energy efficiency obligation	0.015	0.079
	2014	Slovenia	Cross-Cutting	Eco Fund (Eko sklad)	0.034	0.110

SPA19	2011	Spain	Industry	Action Plan 2011-2020: Energy Audits		
SPA20	2011	Spain	Industry	Action Plan 2011-2020: Improvement in the technologies of equipment and processes (BAT).	1.347	2.747
SPA22	2011	Spain	Industry	Action Plan 2011-2020: Establishment of energy management systems	0.090	0.222
SPA22	2011	Spain	Residential	Action Plan 2011-2020: Improvement of the energy efficiency of the electric appliances stock	0.053	0.061
SPA25	2008	Spain	Residential	Plan for Replacement of Electricity Meters		
SPA30	2011	Spain	Cross-Cutting	Action Plan 2011-2020: Renewal of the thermal casing in the existing buildings	0.448	0.513
SPA31	2011	Spain	Cross-Cutting	Action Plan 2011-2020: Improvement of energy efficiency of the thermal installations in existing b	0.525	0.601
SPA32	2011	Spain	Residential	Action Plan 2011-2020: Improvement of energy efficiency of the indoor lighting installations in ex	0.389	0.557
SPA37	2008	Spain	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Regulation of Thermal Instal		
SPA38	2009	Spain	Residential	IDAE's Financing Lines for Thermal Renewable Energies in Buildings: BIOMCASA-SOLCASA-GEOTC		
SPA39	2011	Spain	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Action Plan 201	0.000	0.001
SPA25	2011	Spain	Tertiary	Action Plan 2011-2020: Renewal of the existing outdoor lighting installations	0.011	0.038
SPA26	2011	Spain	Tertiary	Action Plan 2011-2020: Improvement of energy efficiency of the current water purification plants,	0.036	0.067
SPA27	2011	Spain	Tertiary	Action Plan 2011-2020: Studies, feasibility analyses and audits to improve the energy efficiency in		
SPA28	2011	Spain	Tertiary	Action Plan 2011-2020: Training of the local council energy managers		
SPA29	2008	Spain	Tertiary	Action Plan 2008-2012: Energy Saving and Efficiency Plans in Public Administrations		
SPA36	2011	Spain	Cross-Cutting	Action Plan 2011-2020: Construction of new buildings and rehabilitation of the existing ones with	0.129	0.163
	2011	Spain	Tertiary	Action Plan 2011-2020: Bundle of measure for energy saving in agriculture and fishing	0.599	0.885
SPA42	2009	Spain	Tertiary	IDAE's Financing Lines for Thermal Renewable Energies in Buildings: BIOMCASA-SOLCASA-GEOTC		
SPA43	2009	Spain	Tertiary	Energy Efficiency Regulation in Street Lighting Installations		
SPA44	2008	Spain	Tertiary	Green Public Procurement Plan		
SPA46	2010	Spain	Tertiary	Plan to Boost Energy Services Contracts (Plan 2000 ESE)		
SPA48	2011	Spain	Tertiary	Action Plan 2011-2020: Improvement of energy efficiency in commercial refrigeration installation	0.000	0.001
SPA49	2011	Spain	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Action Plan 201	0.000	0.001
SPA30	2011	Spain	Transport	Action Plan 2011-2020: Sustainable Urban Mobility Plans	0.463	0.659
SPA31	2011	Spain	Transport	Action Plan 2011-2020: Transport Plans in firms and activity centres	0.236	0.336
SPA32	2011	Spain	Transport	Action Plan 2011-2020: Larger participation of collective means in road transport	0.049	0.061
SPA33	2011	Spain	Transport	Action Plan 2011-2020: Larger participation of railways in passenger and goods transport	0.648	1.320
SPA35	2011	Spain	Transport	Action Plan 2011-2020: Management of transport infrastructure	1.015	1.290
SPA36	2011	Spain	Transport	Action Plan 2011-2020: Management of road transport fleets	0.232	0.294
SPA37	2011	Spain	Transport	Action Plan 2011-2020: Management of aircraft fleets		0.014
SPA38	2011	Spain	Transport	Action Plan 2011-2020: Eco-driving for cars and vans	0.287	0.326
SPA39	2011	Spain	Transport	Action Plan 2011-2020: Eco-driving for trucks and buses	0.351	0.398
SPA40	2011	Spain	Transport	Action Plan 2011-2020: Eco-driving for aircrafts		0.009
SPA41	2011	Spain	Transport	Action Plan 2011-2020: Renewal of road transport fleets	0.329	0.544
SPA42	2011	Spain	Transport	SPA42 Action Plan 2011-2020: Renewal of air fleets		0.007
SPA43	2011	Spain	Transport	Action Plan 2011-2020: Renewal of sea transport fleets		0.009
SPA44	2011	Spain	Transport	Action Plan 2011-2020: Renewal of car fleets	0.407	0.673
SPA45	2008	Spain	Transport	EU-related: Promotion of Biofuels or other Renewable Fuels for Transport (Directive 2003/30/EC)		
SPA46	2008	Spain	Transport	EU-related: Fiscal Measures to Promote Car Fuel Efficiency - Registration Tax Link to CO2 Emission		
SPA47	2008	Spain	Transport	VIVE Plan (Aids to purchase clean vehicles)		
SPA49	2010	Spain	Transport	Integral Strategy to Impulse the EV/PHEV in Spain 2010-2014		
SPA14	2011	Spain	Cross-Cutting	Law on Sustainable Economy		
SPA39	2008	Spain	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy Performance Certific		
SPA45	2009	Spain	Tertiary	Activation Plan in the State's General Administration Buildings through ESCOS (Plan 330 ESE)		
SPA48	2009	Spain	Transport	MOVELE Demonstration Project (Electric Mobility)		
SPA48	2009	Spain	Transport	MOVELE Demonstration Project (Electric Mobility)		
SPA15	2013	Spain	Cross-Cutting	JESSICA-F.I.D.A. E Fund (Energy Saving And Diversification Investment Fund)		
SPA40	2014	Spain	Residential	PAREER Program (Aids Program for Energy Rehabilitation in Buildings in Household and Hotel		
SPA41	2013	Spain	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - CER (Energy		
SPA50	2014	Spain	Tertiary	PAREER Program (Aids Programme For Energy Rehabilitation In Buildings in Household and Hotel		
SPA51	2013	Spain	Tertiary	PIMA SOL (Plan for Promoting Energy Rehabilitation of Hotel Sector)		
SPA52	2013	Spain	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - (Energy		
SPA52	2013	Spain	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - (Energy		
SPA51	2012	Spain	Transport	PIVE Programme - Efficient Vehicle Incentive Programme		
	2007	Spain	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Technical Building Code		
	2009	Spain	Tertiary	IDAE's Financing Lines for Thermal Renewable Energies in Buildings: BIOMCASA-SOLCASA-		
	2008	Spain	Tertiary	Green Public Procurement Plan		



SWE14	2008	Sweden	Industry	Energy efficiency in small and medium sized enterprises		
SWE16	2010	Sweden	Industry	Energy mapping vouchers (Energikartläggningsscheckar)		
SWE19	2008	Sweden	Residential	EU-related: Energy Performance of Buildings (2002/91/EC)		
SWE21	2012	Sweden	Transport	EU-related: Energy labelling of tyres		
SWE22	2009	Sweden	Transport	Environmental-vehicle tax waiver		
SWE24	2011	Sweden	Transport	Energy efficiency measures in transport infrastructure		
SWE25	2010	Sweden	Transport	Technology procurement (teknikupphandling)		
SWE10	2010	Sweden	Cross-Cutting	EU-related: Energy End-use Efficiency and Energy Services ESD (Directive 2006/32/EC) - Government Subsidies for Local Energy		
SWE13	2010	Sweden	Cross-Cutting	Regional climate and energy strategies (Regionala klimat och energistrategier)		
SWE14	2010	Sweden	Cross-Cutting	EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - Transposition of Directive 2009		
SWE17	2009	Sweden	Industry	Energy efficiency networks for the industry		
SWE21	2013	Sweden	Residential	Investment support for solar cells (Investeringsstöd till solceller)		
SWE21	2013	Sweden	Residential	Investment support for solar cells (Investeringsstöd till solceller)		
SWE22	2010	Sweden	Residential	Programme for buildings with very low energy use (Program för byggnader med mycket låg energianvändning - LÅGAN)		
SWE15	2011	Sweden	Cross-Cutting	Sustainable municipality (Uthållig kommun)		
	?	Sweden	Industry	Program for energy-intensive industry		
	?	Sweden	Cross-Cutting	Energy and CO2-taxes		
		Sweden	Cross-Cutting	<b>Measure package residential and service sector</b>	0.705	0.705
		Sweden	Cross-Cutting	<b>Measure package industry</b>	1.462	1.462
		Sweden	Cross-Cutting	<b>Measure package transport</b>	0.430	0.430
UK10	2010	United Kingdom	Cross-Cutting	EU-related: Promotion of Electricity from Renewable Sources (Directive 2001/77/EC) - UK10_Feed		
UK3	2008	United Kingdom	Cross-Cutting	UK3_Climate Change Act		
UK4	2008	United Kingdom	Cross-Cutting	Environmental Transformation Fund		
UK6	2010	United Kingdom	Cross-Cutting	UK6_Energy Act 2010		
UK7	2009	United Kingdom	Cross-Cutting	UK7_Low Carbon Transition Plan		
UK9	2009	United Kingdom	Cross-Cutting	EU-related: Promotion of the Use of Energy from Renewable Sources (Directive 2009/28/EC) - Nat		
UK11	2013	United Kingdom	Industry	EU-related: EU Emission Trading Scheme (2003/87/EC) - EU Emission Trading Scheme (ETS)		
UK17	2008	United Kingdom	Industry	EU-related: Combined Heat Power (Cogeneration) (Directive 2004/8/EC) - Combined Heat and Pow		
UK28	2010	United Kingdom	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Building Regulations 2010	0.970	1.520
UK32	2014	United Kingdom	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Building regula	0.038	0.060
UK17	2010	United Kingdom	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Building Regulations 2010	0.370	0.482
UK23	2014	United Kingdom	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Building Regul	0.022	0.029
UK12	2010	United Kingdom	Tertiary	CRC Energy Efficiency Scheme (CRC)	0.208	0.208
UK16	2008	United Kingdom	Transport	EU-related: Promotion of Biofuels or other Renewable Fuels for Transport (Directive 2003/30/EC)		
UK20	2008	United Kingdom	Transport	Transport Innovation Fund		
UK11	2013	United Kingdom	Cross-Cutting	Green Deal	0.077	0.155
UK12	2011	United Kingdom	Cross-Cutting	EU-related: Promotion of the Use of Energy from Renewable Sources (Directive 2009/28/EC) - UK1		
UK20	2008	United Kingdom	Cross-Cutting	Suppliers obligations - Carbon Emissions Reduction Target (CERT)	0.621	0.590
UK29	2009	United Kingdom	Cross-Cutting	Supplier Obligations - Community Energy Savings Programme (CESP)	0.053	0.050
UK33	2013	United Kingdom	Residential	Supplier Obligations - Energy Company Obligation (ECO)	0.418	0.762

## **Annex IX. Impact of the currently implemented EU energy efficiency legislation**

Key conclusions of the impact assessment accompanying a proposal for the recast of the Energy Performance of Buildings Directive<sup>1</sup>.

The minimum total impact of the most beneficial options for which quantification was possible, is:

- 60 – 80 Mtoe/year energy savings by 2020, i.e. a reduction of 5-6% of the EU final energy consumption in 2020;
- 160 to 210 Mt/year CO<sub>2</sub> savings by 2020, i.e. 4-5% of EU total CO<sub>2</sub> emissions in 2020;

280,000 (to 450,000) potential new jobs by 2020, mainly in the construction sector, energy certifiers and auditors and inspectors of heating and air-conditioning systems.

- investment requirements and the administrative costs of the measures were analysed and are relatively low compared to the benefits and the returns. For example, on an EU scale abolishing the 1000 m<sup>2</sup> threshold would lead to €8 billion/year additional capital costs but would trigger €25 billion/year energy cost savings by 2020 and therefore create negative CO<sub>2</sub> abatement costs.
- The investment needs differ substantially across Europe depending on the social and economic conditions, on the initial state of the property and on the type of renovations to be undertaken. They are not equally distributed amongst EU citizens, i.e. there will be additional costs for those who make major renovations of their buildings or are engaged in property transaction. However, with high oil prices these initial investments will have attractive returns.
- The overall benefits for society in terms of reduction of energy consumption and thus reduced CO<sub>2</sub> emissions and energy import dependency, job creation, especially at local and regional level, positive health and labour productivity far exceed the costs of the measures analysed.

Key conclusions of the impact assessment accompanying a proposal for the Energy Efficiency Directive<sup>2</sup>:

- The instrument mix put forward will contain a number of overlaps and interactions. The modelling of the whole package showed that primary energy demand in 2020 will be reduced by between 19.7% and 20.9% compared to the PRIMES 2007 baseline projection. The sectors reducing demand most are transport and residential. Reductions are substantial in the tertiary sector, too, due to improved appliances and improved heating and cooling. Generation efficiency also improves and some of the

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<sup>1</sup> SEC 2008/2865

<sup>2</sup> SEC 2011/799

measures to reduce final energy demand lead to lower electricity consumption and thus lower production.

- Measures to achieve the 20% energy saving target in 2020 will support the greenhouse gas reduction target, in particular in non-ETS sectors. According to the Low Carbon Economy Roadmap 2050 the achievement of the 20% EE and RES targets enables a 25% greenhouse gas emission reduction. In this context, the Commission has said that it will monitor the impact of new measures to implement the 20% energy efficiency target on the ETS.
- Impacts on the ETS are presented in the overall 20% efficiency model runs, albeit results differ substantially depending on the model used. While both models project a further decrease in GHG emissions, they show different results regarding the impact on the ETS price: the E3ME model run projects a drop to zero of the ETS price in 2020 whereas the PRIMES scenarios project a much lower impact (a reduction from €16.5/t to €14.2/t in 2020).
- Additional costs to the total energy system rise by between 2.6% and 4.7% compared to the reference scenario. The increase in energy efficiency will tend to increase electricity prices in the short term from 141€/MWh to 146€/MWh due to the need to finance the fixed costs of energy efficiency measures. However, in the long run, this increase pays off by stabilising electricity prices through a lower demand.
- It can therefore be confirmed that the package of policy put forward is capable of reaching the 20% objective and reaping additional benefits that remain tangible beyond 2020. The additional costs of achieving the overall 20% target through the set of measures proposed are proportionately small.