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### **COVER NOTE**

from:	Secretary-General of the European Commission,				
	signed by Mr Jordi AYET PUIGARNAU, Director				
date of receipt:	25 July 2014				
to:	Mr Uwe CORSEPIUS, Secretary-General of the Council of the European Union				
No Cion doc.:	SWD(2014) 255 final - Part 3/3				
Subject:	Commission Staff Working Document				
	Impact Assessment				
	Accompanying the document				
	Communication from the Commission to the European Parliament and the Council				
	<ul> <li>Energy efficiency and its contribution to energy security and the 2030</li> <li>Framework for climate and energy policy</li> </ul>				

Delegations will find attached Commission document SWD(2014) 255 final - Part 3/3.

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Encl.: SWD(2014) 255 final - Part 3/3



Brussels, 23.7.2014 SWD(2014) 255 final

**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} {SWD(2014) 256 final}

# 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 Wärmeb	0.155	0.217
GER19	2008 Germany	Cross-Cutting	National Energy Efficiency Action Plan (NEEAP) of the Federal Republic of Germany		100000
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")		1000000
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		1000000
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) - En	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 ins	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 E	0.251	10000
GER32	2010 Germany	Tertiary	Smart Metering		
GER33	2008 Germany	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy Certificates for build		
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-	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		100000
GER26	2010 Germany	Transport	Statutatory 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		
GER30	2008 Germany	Transport	Aktionsprogramm Mobilitätsmanagement (Promoting mobility, communication and city logistics)		10000
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) - Accel	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 Kor	0.000	0.000
	n.a. Germany	Tertiary	KfW Social Investment - Energetic Building Renovation (KfW Sozial Investieren Energetische Ge	0.012	0.017
	2009 Germany	Tertiary	KfW Energy Efficient Rehabilitation of Buildings - Municipalities (KfW Energieeffizient Sanieren	0.038	0.057
	2012 Germany	Tertiary	KFW Investment Credit Premium Municipality - efficient street lighting (KFW-Investitionskredit Ko	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 E	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		- 33
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 GRE10	2008 Greece 2009 Greece	Cross-Cutting	EU Structural Funds 2007-2013: Essential economic infrastructure		
GRE10	2010 Greece	Industry	Promotion of Combined heat and power (CHP) and district heating systems- Industry Sector Creating a 'Green Business Parks' - Enhancing Investment projects in Industrial Business Zones (V.	F C F L and Innov	estion 7m
GRE6	2008 Greece	Industry	Incentives for obligatory implementation of Energy Management Systems	e.P.E.) and inino	vation 201
GRE7	2014 Greece	Industry	GRE7-Promotion of voluntary agreements in industrial sector		
GRES	2009 Greece	Industry	Installation of electronic and intelligent metering of electricity and natural gas industrial consume	urs.	
GRE9	2012 Greece	Industry	Energy upgrading of existing buildings through third-party financing arrangements (TPF), energy of		tracting as
GRE2	2008 Greece	Residential	Allocation of heating costs in collective buildings	criorinanec con	trecting of
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" 8#8221; Program		
GRE20	2010 Greece	Residential	Installation of electronic and intelligent metering of electricity and natural gas residential consum	ners	
GREZ1	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		
GRE11	2008 Greece	Tertiary	EU-related: Energy Labelling Office Equipment (Energy Star) - Energy Labelling of appliances and r		efficienc
GRE12	2009 Greece	Tertiary	installation of electronic and intelligent metering of electricity and natural gas tertiary consumer		
GRE13	2012 Greece	Tertiary	Energy upgrading of existing buildings through third-party financing arrangements (TPF), energy s	erformance con	tracting a
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 tec	hnologies ̵	1; green p
GRE16	2014 Greece	Tertiary	Green Roof Application in Public Buildings		
GRE17	2014 Greece	Tertiary	The Program "Bioclimatic Urban Reformation"		
GRE18 GRE19	2014 Greece 2014 Greece	Tertiary	Installation of high-efficiency CHP units in conjunction with natural gas cooling systems in hospital	iis	
GRE20	2014 Greece 2014 Greece	Tertiary Tertiary	Measures for energy efficiency improvements in school buildings 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		20000
	Greece	Residential	Measure Package Residential Sector	0.161	0.375
	Greece	Tertiary	Measure Package Tertiary Sector	0.085	0.199
	Greece	Transport	Measure Package Transport	0.041	0.095
	Greece	Cross-Cutting	Increasing excise duty on heating oil consumption	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 of	ertificate 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 Syste		
HUN27 HUN29	2008 Hungary	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy review of heat produ	cing sets and air	condition
	2009 Hungary	Residential	Replacement of household appliances subprogramme of the Green Investment System  Fit soluted Speed Unitation devices for contain solutions of makes which of Chapter 2003/85/6	C) Connellia II	for our
HUN11	2008 Hungary	Transport	EU-related: Speed limitation devices for certain categories of motor vehicles (Directive 2002/85/E	c) - speed limits	for cars,
HUN12	2011 Hungary	Transport Cross-Cutting	On the facilitation of the procurement of energy efficient public vehicle		
HUN16	2008 Hungary	Cross-Cutting Residential	Integration of the sub-urban railway and public transport system in Riga Measure Package Households	0.251	0.251
	Hungary	Tertiary	Measure Package Public institutions	0.231	0.176
	Hungary	Industry	Measure Package Industry, productive sectors	0.156	0.156
	Hungary	Transport	Measure Package Transportation	0.055	0.055
	Hungary	Cross-Cutting	Measure Package Horizontal and Cross-sectoral (other)	0.048	0.048
	2014 Hungary	Cross-Cutting	Energy saving obligation	0.194	0.633
	Total Company	and desired	d d d d d	-1827	-1000

IRL14 IRL16	2008 Ireland 2008 Ireland	Industry	Assessment of Renewable Energy Alternatives at Design Stage 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 treland	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 Sc	0.031	0.033
IRL32	2012 Ireland	Residential	Micro CHP		
IRL34	2008 Ireland	Residential	Condensing Boilers - Minimum Boiler Efficiency	0.069	0.10
IRL35	2012 Ireland	Residential	Periodic Mandatory inspection of Boilers		
IRL40	2011 Ireland	Residential	Building regulations 2011	0.033	0.07
IRL41	2016 Ireland	Residential	Building Regulations - Nearly Zero Energy Homes	0.001	0.01
IRL22	2008 Ireland	Tertiary	Assessment of Renewable Energy Alternatives at Design Stage		
RL24	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		
RL29	2008 Ireland	Tertiary	Air Conditioning		
RL30	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		
RL12	2009 Ireland	Transport	Sustainable Travel and Transport Action Plan		
RL18	2008 Ireland	Transport	Mineral Oil Tax		
RL22	2008 Ireland	Transport	EU-related: Promotion of the Use of Biofuels or Other Renewable Fuels for Transport (2003/30/EC)		
RL23	2010 Ireland	Transport	Private car scrappage scheme		
RL25	2009 Ireland	Transport	Ecodriving - driver training and licensing		
RL5	2010 Ireland	Cross-Cutting	Toll Rates for the Use of Motorways		
RL6	2008 Ireland	Cross-Cutting	Development of public transport network		
RL42	2011 ireland	Residential	Better Energy Homes (Residential Retrofit)		
RL15	2008 Ireland	Transport	EU-related: Emission performance standards new passenger cars (Regulation 443/2009/EC) - ) - Emi		
RL16	2008 Ireland	Transport	EU-related: Emission performance standards new passenger cars (Regulation 443/2009/EC) - ) - Emi	ssions based Ve	hicle R
RL20	2008 Ireland	Transport	EU-related: Promotion of Biofuels or other Renewable Fuels for Transport (Directive 2003/30/EC)		
RL21	2009 Ireland	Transport	National Cycling Policy Framework		
RL27	2011 Ireland	Transport	Electric Vehicles		
TA17	2008 Italy	Tertiary	Measure for efficient lighting and control systems		
TA18 TA20	2009 Italy 2008 Italy	Transport	Improved Mobility in the Smaller Italian Islands (MINIMI Project) (Mobilità Innovativa Nelle Isole N Financial package for old vehicles scrapping	inon italianej	
TA10	2000 Italy 2011 Italy	Transport Cross-Cutting	Taxes on gasoline and auto diesel oil		
TA13	2013 Italy	Industry	Market incentives: white certificates		
TA13	2013 Italy	Industry	Market incentives: white certificates		
TA1	2012 Italy	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Energy-related	ray labelling of h	nuseh
TA28	2009 Italy	Residential	Mandatory use of solar thermal energy in buildings	St receiving or in	- Cose
TA32	2011 Italy	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Eco	Design Directive	Fram
TA32	2011 Italy	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Eco		
TA33			White Certificates		
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TA33 TA33 TA29 TA30	2013 Italy 2013 Italy 2013 Italy	Residential Residential Residential	White Certificates White Certificates	1.360	1.93
TA33 TA33 TA29 TA30 TA30	2013 Italy 2013 Italy 2013 Italy 2011 Italy 2013 Italy	Residential Residential Residential Residential	White Certificates White Certificates EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Standard for effi Fiscal incentives for energy savings in the household sector:Ecobonus 2014 and tax deduction for r	1.360 novations and a	1.92 opliano
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TA33 TA33 TA29 TA30 TA30 TA37 TA4 TA14 TA14 TA12 TA11 TA38 TA39 TA40	2013 Hely 2013 Hely 2013 Hely 2011 Hely 2013 Hely	Residential Residential Residential Residential Residential Residential Tertiary Tertiary Cross-Cutting Cross-Cutting Residential Residential	White Certificates  White Certificates  EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Standard for eff Fiscal incentives for energy savings in the household sector:Ecobonus 2014 and tax deduction for to Fiscal incentives for energy savings in the household sector:Ecobonus 2014 and tax deduction for to EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy performance Design Norms for Thermal Plant Regulation and Metering White Certificates  White certificates: market based instruments promoting energy efficiency Renewable energy for heating & cooling support scheme EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Nearly Zero Design Norms for Thermal Plant Regulation and Metering	1.360 novations and a noe of newly en 4.140	1.92 ppliand ected a 5.49
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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	0.033
LV14 LV15	2009 Latvia 2009 Latvia	Industry	Energy Efficiency Investments in District Heating (Measures to Improve the Efficiency of Centralis Investments to Produce Energy from Biomass of Agriculture and Forestry Origin	0.055	0.08
LV15	2011 Latvia	Industry	Development of CHP Utilising Renewables		
V19	2011 Latvia	Industry	Agreements on Improving Energy Efficiency by Promoting the Implementation of Industrial Energy Au	dits and	
V22	2010 Latvia	Industry	Reduced Excise Duties Rate for Oil Products Mixed with Biofuel and Utilised for Heat Production		
.V23	2008 Latvia	Industry	EU-related: EU Emission Trading Scheme (2003/87/EC) - ETS 2008-2012		
.V24	2012 Latvia	Industry	Complex Solutions for GHG Emissions Reduction in Industrial Buildings	0.009	0.02
.V25	2012 Latvia	Industry	Investments in Renewable Technologies for Heat and Electricity Production to Reduce GHG emissions		
.V26	2010 Latvia	Industry	Energy Efficiency Requirements for District Heating Systems		
.V29	2010 Latvia	Residential	Information Campaign "Live Warmer"		
.V30	2013 Latvia	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy Audits and E	nergy Cc	
V31	2012 Latvia	Residential	Grants for Renewable Energy Technologies in Households	0.000	0.01
V32 V33	2014 Latvia 2010 Latvia	Residential Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Improving mini Increasing Heat Energy Efficiency in Social Apartment Buildings (Measures to Improve the Therma	0.003	0.01
.vss .vs4	2011 Latvia	Residential	Low Energy Building	0.000	0.00
V35	2012 Latvia	Residential	Minimal Energy Efficiency Requirements for Multidwelling Buildings		
V36	2011 Latvia	Residential	EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - EU-relate	d Recast	
V3	2008 Latvia	Tertiary	Information campaigns on applying energy efficient electrical equipment		
V6	2008 Latvia	Tertiary	Implementation of the Exemplary Role of the Public Sector	0.002	0.00
V6	2015 Latvia	Tertiary	Implementation of the Exemplary Role of the Public Sector	0.001	0.00
V7	2010 Latvia	Tertiary	Investments in Municipal Public Buildings' Energy Efficiency to Reduce GHG emissions	0.011	0.01
V8	2011 Latvia	Tertiary	Investments in Complex Solutions for GHG Emissions Reduction in Professional Education Institut	0.003	0.00
V9	2012 Latvia	Tertiary	Investments in Renewable Technologies for Heat and Electricity Production to Reduce GHG emissions		
V10	2013 Latvia	Tertiary	Low Energy Buildings		
V11	2012 Latvia	Tertiary	Investments in Public Territories' Lighting Infrastructure to Reduce GHG Emissions		
V12	2014 Latvia	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Improving minimum	energy	0.03
V13	2009 Latvia	Tertiary	Green Public Procurement		
V14	2010 Latvia	Tertiary	Reduced excise duties rate for oil products mixed with biofuel and utilised for heat production		
V15	2013 Latvia	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy Certification	of Non-	0.00
V16 V19	2010 Latvia 2010 Latvia	Transport Transport	Integration of the sub-urban railway and public transport system in Riga  EU-related: Fiscal Measures to Promote Car Fuel Efficiency - Fiscal Measures to Reduce CO2 emissions	of Care	0.00
V20	2010 Latvia	Transport	Increasing the Efficiency of the Existing Main Road Network and Planning the Transport System in the 4		0.00
V22	2010 Latvia	Transport	Biofuel Mix Obligation	only of h	0.00
V23	2014 Latvia	Transport	Toll Rates for the Use of Motorways		
V24	2011 Latvia	Transport	Development of public transport network		
V14	2011 Latvia	Cross-Cutting	Promotion Public Understanding on the Importance and Possibilities of GHG Emissions Reduction		
V8	2010 Latvia	Cross-Cutting	Preferential Feed-in tariffs for Renewables		
V9	2009 Latvia	Cross-Cutting	Preferential Feed-in Tariffs for CHP		
V15	2014 Latvia	Cross-Cutting	Taxation of Subsidized Electricity		
V41	2009 Latvia	Residential	Increasing Energy Efficiency in Multi Apartment Buildings (Measures to Improve the Thermal		
V25	2010 Latvia	Transport	EU-related: Promotion of clean and energy-efficient road transport vehicles (Directive		
	2014 Lithuania	Cross-Cutting	Energy efficiency obligation	0.023	0.16
	2014 Lithuania	Cross-Cutting	Complementing measures (financed from structural funds, state budget and other sources)	0.011	0.04
UX10	2011 Luxembou	-	Voluntary Agreement of 2011	0.009	0.00
UX3 UX5	2012 Luxembou 2010 Luxembou	-	Realising electricity savings potential of industrial cross-cutting technologies  EU-related: Combined Heat Power (Cogeneration) (Directive 2004/8/EC) - Grand Ducal Regulation	0.005	0.0
UX6	2010 Luxembou		EU-related: Amended EU Emission Trading Scheme (Directive 2009/29/EC) - Grand Ducal Regulation		
UX7	2010 Luxembou	-	EU-related: Integrated Pollution Prevention and Control IPPC (Directive 2008/1/EC) - Grand Ducal		
UX9	2008 Luxembou	-	Voluntary Agreement of 2008	0.004	0.00
UX14	2008 Luxembou	_	Old building upgrade programme	0.002	0.00
UX16	2012 Luxembou	_	Expansion of the upgrading programme for old buildings	0.003	0.00
UX17	2010 Luxembou		Renewal of oldest heating systems	0.001	0.00
UX18	2012 Luxembou	rg Residential	Increase in promotion of efficient new building (new buildings, as against WD2008)	0.000	0.00
UX19	2009 Luxembou	rg Residential	EU-related: Ecodesign Directive for Energy-using Products (Directive 2005/32/EC) - Law establishin		
UX20	2010 Luxembou		EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - Law		
UX24	2010 Luxembou		Support of efficiency labelling	0.001	0.00
UX2	2008 Luxembou	-	Improvement in the U-values of the non-domestic buildings (WD2008)	0.008	0.00
		re Tartians	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Expansion of the Ordinance	0.017	0.0
UX3	2011 Luxembou	-			
UX3 UX4	2012 Luxembou	rg Tertiary	Realising electricity savings potential in the TCS sector	0.009	0.01
UX3 UX4 UX4	2012 Luxembou 2008 Luxembou	rg Tertiary rg Cross-Cutting	Realising electricity savings potential in the TCS sector Further realising of potential for decentralised renewables (excluding biomass)	0.009	0.01
.UX4 .UX4 .UX4	2012 Luxembou 2008 Luxembou 2010 Luxembou	rg Tertiary rg Cross-Cutting rg Cross-Cutting	Realising electricity savings potential in the TCS sector Further realising of potential for decentralised renewables (excluding biomass) Further expansion of decentralised biomass use		0.01
UX3 UX4 UX4 UX6 UX13	2012 Luxembou 2008 Luxembou 2010 Luxembou 2008 Luxembou	rg Tertiary rg Cross-Cutting rg Cross-Cutting rg Residential	Realising electricity savings potential in the TCS sector Further realising of potential for decentralised renewables (excluding biomass) Further expansion of decentralised biomass use EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Ordinance on the energy pe	0.030	0.05
.UX3 .UX4 .UX4	2012 Luxembou 2008 Luxembou 2010 Luxembou	rg Tertiary rg Cross-Cutting rg Cross-Cutting rg Residential rg Residential	Realising electricity savings potential in the TCS sector Further realising of potential for decentralised renewables (excluding biomass) Further expansion of decentralised biomass use		0.05

NLD19 NLD20	2008 Netherlan 2009 Netherlan	The state of the s	Long Term Agreements with the industry, third phase (MIA3) Heatmaps		
NLD17	2008 Netherlan		EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Energy		
NLD20	2009 Netherlan		Heat distribution law (warmtewet)		
NLD21 NLD22	2008 Netherlan 2008 Netherlan		More with Less plan (Meer met Minder) Pilots energy saving for homeowners and private landlords in combination with district approach		
NLD23	2008 Netherlan		Financial support homeowners		
NLD25	2008 Netherlan	ds Residential	Covenant energy savings in newly produced buildings (Spring Agreement)		
NLD27	2008 Netherlan		Covenant energy savings by housing corporations		
NLD19 NLD20	2010 Netherlan 2008 Netherlan		Internal emission trading system for the greenhouse sector Taskforce lighting		
NLD18	2008 Netherlan		Railfreight (Betuwelijn)		
	Netherlan	ds Cross-Cutting	Measure Package Buildings		
	Netherlan		Established policy, households		
		ds Residential ds Residential	EPC 0.6	0.067	0.141
	54 100 A 100 B 100 B	ds Residential	Voluntary agreements, existing buildings Other policy, including energy taxation and SDE supplement	0,062	0.143
	Netherlan	ds Residential	Further than Ecodesign	0.007	0.018
	Netherlan		Established policy, services		
		ds Tertiary	EPC and other national policy	0.042	0.051
	Netherlan	ds Tertiary ds	Other policy New policy, households and services	0.007	0.018
		ds Cross-Cutting	Owner-accupier sector	0.026	0.060
	Netherlan	ds Cross-Cutting	(Social) rental sector	0.079	0.182
		ds Cross-Cutting	Social and other real estate	0.134	0.313
		ds Industry ds Industry	Measure Package Industry Established policy, industry		
		ds Industry	Combined impact of existing policy	0.167	0.394
		ds Industry	New policy, industry		
		ds Industry	Energy Investment Allowance (EIA)	0.036	0.105
		ds Industry ds Industry	Long-term voluntary agreement on energy efficiency, ETS companies (MEE) Enforcement, MJA3	0,005	0.012
		ds Industry ds Industry	Enforcement, ather industry	0.002	0.007
		ds Industry	Enforcement, building-related consumption, industry	0.026	0.079
		ds Tertiary	Measure Package Agriculture/Horticulture		
		ds Tertiary	Established policy, agriculture/harticulture		
		ds Tertiary ds Tertiary	Direct use of solar heat LED lighting	0.001	0.001
		ds Tertiary	Avoidance of summer heating	0.001	0.008
	Netherlan	ds Tertiary	Het Nieuwe Telen [Ecocultivation]	0.001	0.010
		ds Tertiary	Better insulation		0.001
		ds Tertiary ds Tertiary	Established policy, agriculture/horticulture Private system, greenhouse horticulture	0.031	0.053
		ds Transport	Measure Package Transport	0.001	0.033
		ds Transport	Established policy transport		
		ds Transport	Construction of loading docks for inland waterway transport	0.000	0.001
		ds Transport	Increase in duty on diesel by 3 ct./l in 2014	0.006	0.013
		ds Transport ds Transport	Increase in duty on LPG by 7 ct./l in 2014 Electric cars	0.000	0.001
		ds Transport	Modal split in freight traffic through port policy	0.002	0.004
	Netherlan	ds Transport	Electric bioycles with 10% car replacement (or autonomous)		
		ds Transport	Continuation of more fuel-efficient driving among new drivers	0.005	0.012
PLE	2008 Poland	ds Transport Tertiany	Continuation of incentives for fuel-efficient cars Increasing the proportion of energy saving products available in the market	0.028	0.066
PL10	2009 Poland	Transport	Tell on highways		
PL11	2009 Poland	Transport	Vehicle taxation		
PLB	2009 Poland	Transport	Fuel Tax		
PL3 PL10	2008 2011 Poland	Industry	Priority Programme "Efficient use of energy. Part I" - Grants for energy audits in industrial enterprise	05	
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"	s in with	0.00
PLB	2008 Poland	Industry	2007 to 2013 Infrastructure and Environment Operations Programme and Regional Operations Pro 2007 to 2013 Infrastructure and Environment Operations Programme and Regional Operations Pro	0.023	0.023
PL9 PL11	2008 Poland 2009 Poland	Industry Residential	2007 to 2013 intrastructure and Environment Operations Programme and Regional Operations Pro EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance of Buildings (Directive 2002/91/EC) - Certificates of energy performance	0.006	0.008
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 theirs Location	H (2/2028)	170000
PL13	2010 Poland 2010 Poland	Tertiary Tertiary	Green Investment Scheme. Part 5 – Energy Management in Buildings of Selected Public Sector Ent Green Investment Scheme. Part 5 – Energy Management in Buildings of Selected Public Sector Ent	0.008	0.014
PL12	2010 Poland	Tertiary	Green Investment Scheme, Part 1 - energy management in Buildings of Selected Public Sector Ent	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	0.016
PL11 PL2	2011 Poland	Tertiary	Exemplary role of public sector	10000	1000
	2008 Poland 2014 Poland	Transport Transport	Traffic management system and transport of goods optimisation  Fleet replacement program in public transport and the promotion of eco driving	1.082	0.044 2.016
	Control of the last	Cross-Cutting	System of white certificates - Energy efficiency Act	1.100	1.100
PL3 PL12	2013 Poland	manual manual de	35(55(4)) 7(3)(1)(1)(4) 7(3)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)	0.030	0.030
PL3	2013 Poland 2012 Poland	Cross-Cutting	Information campaigns, training and education	0.030	
PL3 PL12	2012 Poland Poland	Cross-Cutting Cross-Cutting	Operational Programme PL04	0.016	0.016
PL3 PL12	2012 Poland Poland Poland	Cross-Cutting Cross-Cutting Cross-Cutting	Operational Programme PL04 LEMUR (by National Fund for Environmental Protection)	0.016 0.006	0.016 0.012
PL3 PL12	2012 Poland Poland Poland Poland	Cross-Cutting Cross-Cutting Cross-Cutting Tertiary	Operational Programme PL04 LEMUR (by National Fund for Environmental Protection) Regional Operational Programmes 2007-2033 (public sector)	0.016 0.006 0.044	0.016 0.012 0.044
PL3 PL12	2012 Poland Poland Poland	Cross-Cutting Cross-Cutting Cross-Cutting	Operational Programme PL04 LEMUR (by National Fund for Environmental Protection)	0.016 0.006	0.016
PL3 PL12	2012 Poland Poland Poland Poland Poland Poland Poland	Cross-Cutting Cross-Cutting Cross-Cutting Tertiary Tertiary Cross-Cutting Cross-Cutting	Operational Programme PL04  LEMUR (by National Fund for Environmental Protection)  Regional Operational Programmes 2007-2033 (public sector)  Regional Operational Programmes 2014-2020 (public sector)  Operational Programme Infrastructure and Environment 2014-2020  Green Investment Scheme (SOWA) part 6) - by National Fund for Environmental Protection	0.016 0.006 0.044 0.015 0.003	0.016 0.012 0.044 0.035 0.006 0.003
PL3 PL12	2012 Poland Poland Poland Poland Poland Poland Poland Poland	Cross-Cutting Cross-Cutting Cross-Cutting Tertiary Tertiary Cross-Cutting Cross-Cutting Cross-Cutting	Operational Programme PL04  LEMUR (by National Fund for Environmental Protection)  Regional Operational Programmes 2007-2003 (public sector)  Regional Operational Programmes 2014-2020 (public sector)  Operational Programme Infrastructure and Environment 2014-2020  Green Investment Scheme (SOWA) part 6) - by National Fund for Environmental Protection  Operational Programme Infrastructure and Environment (activity 9.4 - Energy Generation from RE	0.016 0.006 0.044 0.015 0.003 0.003 0.002	0.016 0.012 0.044 0.035 0.006 0.003
PL3 PL12	2012 Poland Poland Poland Poland Poland Poland Poland Poland Poland Poland	Cross-Cutting Cross-Cutting Cross-Cutting Tertiary Tertiary Cross-Cutting Cross-Cutting Cross-Cutting Cross-Cutting	Operational Programme PL04  LBMUR (by National Fund for Environmental Protection)  Regional Operational Programmes 2007-2013 (public sector)  Regional Operational Programmes 2014-2020 (public sector)  Operational Programme infrastructure and Environment 2014-2020  Green Investment Scheme (SOWA) part 6) - by National Fund for Environmental Protection  Operational Programme infrastructure and Environment (activity 9.4 - Energy Generation from RE.  Regional Operational Programmes 2007-2013 (private sector)	0.016 0.006 0.044 0.015 0.003 0.003 0.002 0.010	0.016 0.012 0.044 0.035 0.006 0.003 0.002
PL3 PL12	2012 Poland Poland Poland Poland Poland Poland Poland Poland	Cross-Cutting Cross-Cutting Cross-Cutting Tertiary Tertiary Cross-Cutting Cross-Cutting Cross-Cutting	Operational Programme PL04  LEMUR (by National Fund for Environmental Protection)  Regional Operational Programmes 2007-2003 (public sector)  Regional Operational Programmes 2014-2020 (public sector)  Operational Programme Infrastructure and Environment 2014-2020  Green Investment Scheme (SOWA) part 6) - by National Fund for Environmental Protection  Operational Programme Infrastructure and Environment (activity 9.4 - Energy Generation from RE	0.016 0.006 0.044 0.015 0.003 0.003 0.002	0.016 0.012 0.044 0.035 0.006 0.003

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 POR18	2008 Portugal 2008 Portugal	Residential Residential	Remodelling Measures 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 endof-life vehicles		
POR15	2008 Portugal	Transport	Green Taxes – Review of the private vehicle taxregime (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 DistrictCapitals		
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 distric heating systems		10000
RO29	2008 Romania	Residential	EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - En	ergy efficiency in	nproveme
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 emiss	ion trading in Ro	mania
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 a	greements(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 a	ind 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		
RO11	2009 Romania	Tertiary	EU-related: Energy Labelling Office Equipment (Energy Star) - Promote the use of energy efficient	household appl	iances 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		
500000	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		
5K13	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		ind techni
SK10	2012 Slovakia	Residential	Mandatory technical requirements on insulation of heating and domestic hot water distribution p	ipes	
5K11 5K17	2008 Slovakia 2009 Slovakia	Residential Residential	Hydronic balancing of the heating and domestic hot water systems		
SK9	2011 Slovakia	Residential	Information campaign Live with Energy - EU Structural funds, OP Competitiveness and Economic G EU-related: Revised Directive for Labelling of Energy-related Products (Directive 2010/30/EU) - Ac		
SK13	2008 Slovakia	Tertiary	Improvement of thermal technical proprerties of buildings including technical equipment - Eko Fu	_	mergyrei
5K18	2011 Slovakia	Tertiary	Improvement of thermal technical properties of buildings - Public buildings - Pilot project for ene		nublic bu
5K21	2009 Slovakia	Tertiary	Improvement or thermal technical properties or buildings - Public buildings - Pilot project for ene Information campaign and energy advice services Live with Energy - EU Structural funds, OP Comp		
SK8	2011 Slovakia	Transport	EU-related: Promotion of clean and energy-efficient road transport vehicles (Directive 2009/33/EG		
SK9	2009 Slovakia	Transport	Modernization of passenger cars fleet - scrappage scheme	- Act on promo	LIGHT CT CT
5K12	2009 Slovakia	Cross-Cutting	Low carbon buses & SAFED bus driver training		
5K14	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		
5K21	2008 Slovakia	Cross-Cutting	Energy efficient urban transport		
5K23	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	g of tyres
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

SPA 19	2011 Spain	Industry	Action Plan 2011-2020: Energy Audits	1.047	2.747
SPA 20	2011 Spain	Industry	Action Plan 2011-2020: Improvement in the technologies of equipment and processes (BAT).	1.347	2.747
SPA 22	2011 Spain	Industry	Action Plan 2011-2020: Establishment of energy management systems	0.090	0.222
SPA 22	2011 Spain	Residential	Action Plan 2011-2020: Improvement of the energy efficiency of the electric appliances stock	0.053	0.061
SPA 25 SPA 30	2008 Spain	Residential	Plan for Replacement of Electricity Meters	0.448	0.513
	2011 Spain	Cross-Cutting	Action Plan 2011-2020: Renewal of the thermal casing in the existing buildings		
SPA 31	2011 Spain	Cross-Cutting	Action Plan 2011-2020: Improvement of energy efficiency of the thermal installations in existing t	0.525	0.601
SPA 32	2011 Spain	Residential	Action Plan 2011-2020: Improvement of energy efficiency of the indoor lighting installations in ex	0.389	0.557
SPA 37	2008 Spain	Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Regulation of Thermal Instal		
SPA 38	2009 Spain	Residential	IDAE's Financing Lines for Thermal Renewable Energies in Buildings: BIOMCASA-SOLCASA-GEOTC	0.000	0.001
SPA 39	2011 Spain	Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Action Plan 201	0.000	0.001
SPA 25	2011 Spain	Tertiary	Action Plan 2011-2020: Renewal of the existing outdoor lighting installations	0.011	0.038
SPA 26	2011 Spain	Tertiary	Action Plan 2011-2020: Improvement of energy efficiency of the current water purification plants,	0.036	0.067
SPA 27	2011 Spain	Tertiary	Action Plan 2011-2020: Studies, feasibility analyses and audits to improve the energy efficiency in		
SPA 28	2011 Spain	Tertiary	Action Plan 2011-2020: Training of the local council energy managers		
SPA 29	2008 Spain	Tertiary	Action Plan 2008-2012: Energy Saving and Efficiency Plans in Public Administrations		0.450
SPA 36	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
SPA 42	2009 Spain	Tertiary	IDAE's Financing Lines for Thermal Renewable Energies in Buildings: BIOMCASA-SOLCASA-GEOTC		
SPA 43	2009 Spain	Tertiary	Energy Efficiency Regulation in Street Lighting Installations		
SPA 44	2008 Spain	Tertiary	Green Public Procurement Plan		
SPA 46	2010 Spain	Tertiary	Plan to Boost Energy Services Contracts (Plan 2000 ESE)		
SPA 48	2011 Spain	Tertiary	Action Plan 2011-2020: Improvement of energy efficiency in commercial refrigeration installation	0.000	0.001
SPA 49	2011 Spain	Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Action Plan 201	0.000	0.001
SPA 30	2011 Spain	Transport	Action Plan 2011-2020: Sustainable Urban Mobility Plans	0.463	0.659
SPA 31	2011 Spain	Transport	Action Plan 2011-2020: Transport Plans in firms and activity centres	0.236	0.336
SPA 32	2011 Spain	Transport	Action Plan 2011-2020: Larger participation of collective means in road transport	0.049	0.061
SPA 33	2011 Spain	Transport	Action Plan 2011-2020: Larger participation of railways in passenger and goods transport	0.648	1.320
SPA 35	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
SPA 37	2011 Spain	Transport	Action Plan 2011-2020: Management of aircraft fleets		0.014
SPA 38	2011 Spain	Transport	Action Plan 2011-2020: Eco-driving for cars and vans	0.287	0.326
SPA 39	2011 Spain	Transport	Action Plan 2011-2020: Eco-driving for trucks and buses	0.351	0.398
SPA 40	2011 Spain	Transport	Action Plan 2011-2020: Eco-driving for aircrafts		0.009
SPA 41	2011 Spain	Transport	Action Plan 2011-2020: Renewal of road transport fleets	0.329	0.544
SPA 42	2011 Spain	Transport	SPA42 Action Plan 2011-2020: Renewal of air fleets		0.007
SPA 43	2011 Spain	Transport	Action Plan 2011-2020: Renewal of sea transport fleets		0.009
SPA 44	2011 Spain	Transport	Action Plan 2011-2020: Renewal of car fleets	0.407	0.673
SPA 45	2008 Spain	Transport	EU-related: Promotion of Biofuels or other Renewable Fuels for Transport (Directive 2003/30/EC)		
SPA 46	2008 Spain	Transport	EU-related: Fiscal Measures to Promote Car Fuel Efficiency - Registration Tax Link to CO2 Emission		
SPA 47	2008 Spain	Transport	VIVE Plan (Aids to purchase clean vehicles)		
SPA 49	2010 Spain	Transport	Integral Strategy to Impulse the EV/PHEV in Spain 2010–2014		
SPA 14	2011 Spain	Cross-Cutting	Law on Sustainable Economy		
SPA 39	2008 Spain	Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Energy Performance Certific		
SPA 45	2009 Spain	Tertiary	Activation Plan in the State's General Administration Buildings through ESCOS (Plan 330 ESE)		
SPA 48	2009 Spain	Transport	MOVELE Demonstration Project (Electric Mobility)		
SPA 48	2009 Spain	Transport	MOVELE Demonstration Project (Electric Mobility)		
SPA 15	2013 Spain	Cross-Cutting	JESSICA-F.I.D.A.E Fund (Energy Saving And Diversification Investment Fund)		
SPA 40	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		
SPA 50	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		
SPA 52	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-		

SWE14	21	008 Sweden	Industry	Energy efficiency in small and medium sized enterprises		
SWE16	2	010 Sweden	Industry	Energy mapping vouchers (Energikartläggningscheckar)		
SWE19	2	008 Sweden	Residential	EU-related: Energy Performance of Buildings (2002/91/EC)		
SWE21	2	012 Sweden	Transport	EU-related: Energy labelling of tyres		
SWE22	21	009 Sweden	Transport	Environmental-vehicle tax waiver		
SWE24	2	011 Sweden	Transport	Energy efficiency measures in transport infrastructure		
SWE25	2	010 Sweden	Transport	Technology procurement (teknikupphandling)		
SWE10	21	010 Sweden	Cross-Cutting	EU-related: Energy End-use Efficiency and Energy Services ESD (Directive 2006/32/EC) - Governme	nt Subsidies for I	Local Ener
SWE13	21	010 Sweden	Cross-Cutting	Regional climate and energy strategies (Regionala klimat och energistrategier)		
SWE14	2	010 Sweden	Cross-Cutting	EU-related: Recast Ecodesign Directive for Energy-related Products (Directive 2009/125/EC) - Trans	position of Direc	ctive 2009
SWE17	2	009 Sweden	Industry	Energy efficiency networks for the industry		
SWE21	21	013 Sweden	Residential	Invetsment support for solar cells (Investeringsstöd till solceller)		
SWE21	2	013 Sweden	Residential	Invetsment support for solar cells (Investeringsstöd till solceller)		
SWE22	2	010 Sweden	Residential	Programme for buildings with very low energy use (Program för byggnader med mycket låg energ	användning - LÅ	GAN)
SWE15	21	011 Sweden	Cross-Cutting	Sustainable municipality (Uthållig kommun)		
	?	Sweden	Industry	Program for energy-intensive industry		
	7	Sweden	Cross-Cutting	Energy and CO2-taxes		
		Sweden	Cross-Cutting	Measure package residential and service sector	0.705	0.705
		Sweden		Measure package industry	1.462	1.462
		Sweden		Measure package transport	0.430	0.430
UK10	2	010 United Kir	ngc Cross-Cutting	EU-related: Promotion of Electricity from Renewable Sources (Directive 2001/77/EC) - UK10_Feed		
UK3	2	008 United Kir	ngc Cross-Cutting	UK3_Climate Change Act		
UK4	21	008 United Kir	ngc Cross-Cutting	Environmental Transformation Fund		
UK6	2	010 United Kir	ngc Cross-Cutting	UK6_Energy Act 2010		
UK7	2	009 United Kir	ngc Cross-Cutting	UK7_Low Carbon Transition Plan		
UK9	2	009 United Kir	ngc Cross-Cutting	EU-related: Promotion of the Use of Energy from Renewable Sources (Directive 2009/28/EC) - Nat		
UK11	21	013 United Kir	ngc Industry	EU-related: EU Emission Trading Scheme (2003/87/EC) - EU Emission Trading Scheme (ETS)		
UK17	2	008 United Kir	ngc Industry	EU-related: Combined Heat Power (Cogeneration) (Directive 2004/8/EC) - Combined Heat and Pox		
UK28	2	010 United Kir	ngc Residential	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Building Regulations 2010	0.970	1.526
UK32	2	014 United Kir	ngc Residential	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Building regula	0.038	0.060
UK17	21	010 United Kir	ngc Tertiary	EU-related: Energy Performance of Buildings (Directive 2002/91/EC) - Building Regulations 2010	0.370	0.482
UK23	21	014 United Kir	ngc Tertiary	EU-related: Energy Performance of Buildings EPBD Recast (Directive 2010/31/EU) - Building Regula	0.022	0.029
UK12	2	010 United Kir	ngc Tertiary	CRC Energy Efficiency Scheme (CRC)	0.208	0.208
UK16	2	008 United Kir	ngc Transport	EU-related: Promotion of Biofuels or other Renewable Fuels for Transport (Directive 2003/30/EC)		100000
UK20	21	008 United Kir	ngc Transport	Transport innovation Fund		
UK11	21	013 United Kir	ngc Cross-Cutting	Green Deal	0.077	0.155
UK12	2	11 United Kir	ngc Cross-Cutting	EU-related: Promotion of the Use of Energy from Renewable Sources (Directive 2009/28/EC) - UK1		
UK20	21	008 United Kir	ngc Cross-Cutting	Suppliers obligations - Carbon Emissions Reduction Target (CERT)	0.621	0.590
UK29	21	009 United Kir	ngc Cross-Cutting	Supplier Obligations - Community Energy Savings Programme (CESP)	0.053	0.050
UK33	21	113 United Kir	ngc 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 m² 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 CO₂ 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

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

<sup>&</sup>lt;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.