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Joint Research Centre

EU Reporting experience - NEEAP assessment

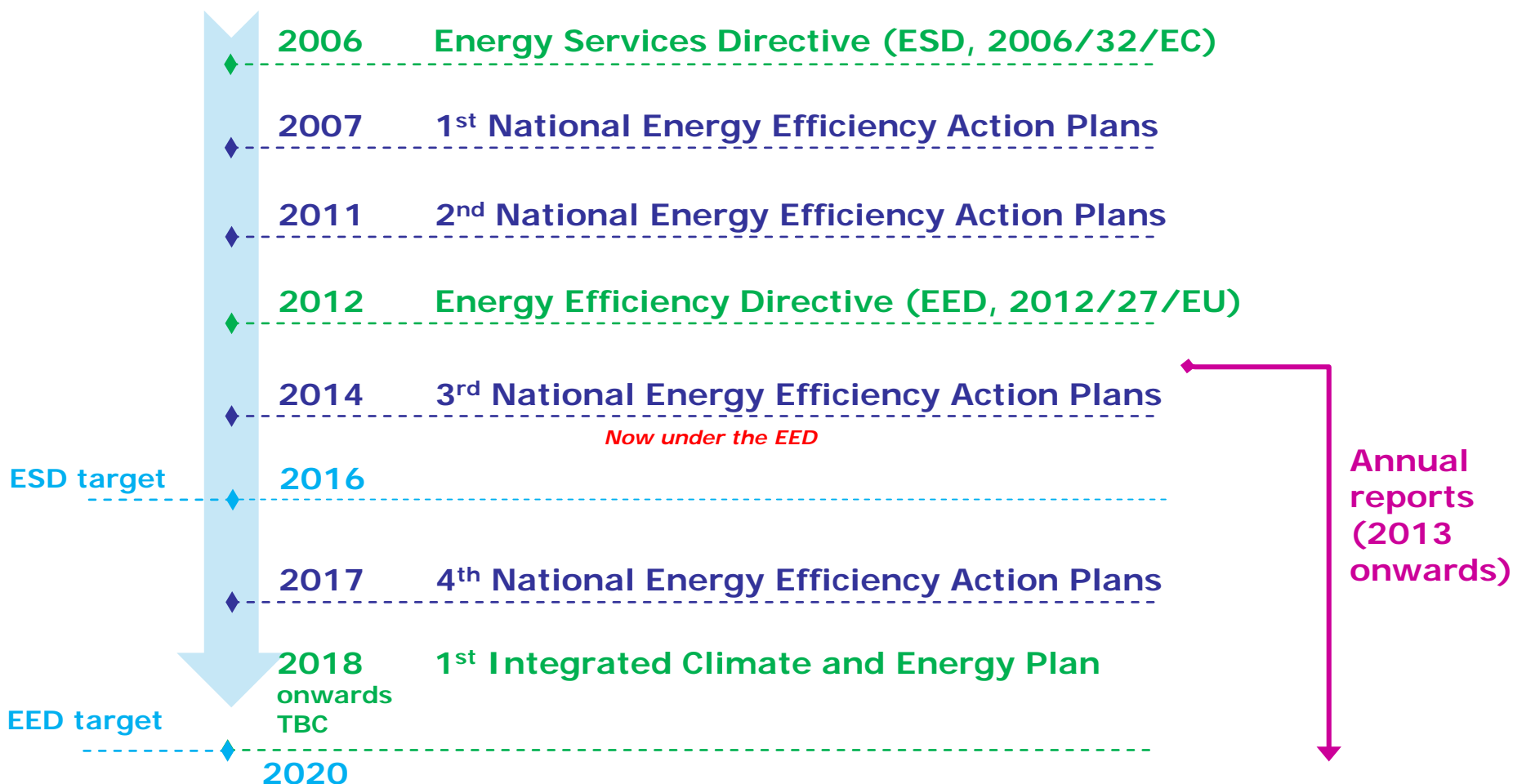
Marina Economidou
Directorate Energy, Transport & Climate,
Energy efficiency & Renewables Unit

28 June 2017



Planning & reporting

Planning & reporting on energy efficiency



National Energy Efficiency Action Plans

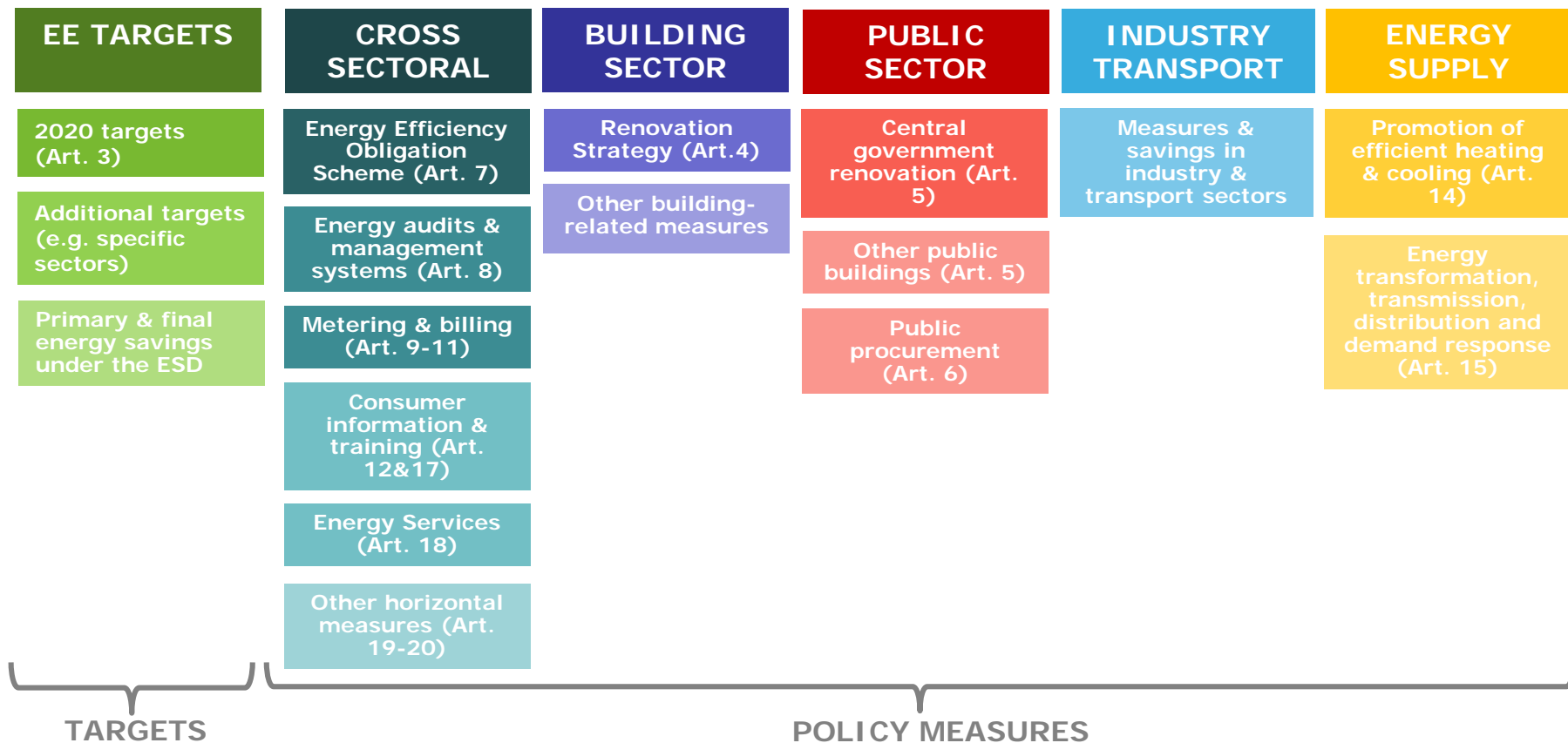
EC support for drafting NEEAPs

- 1. EED Annex XIV Part 2:** list of compulsory elements to be reported in NEEAPs
- 2. Template 2013/342/EU:** common structure of plans & template elements in detail
- 3. Guidance document SWD(2013) 180 final:** explanatory remarks on all template elements (compulsory/voluntary)

Due in 2014, 2017 & 2020*

*To be integrated in the National Energy and Climate Plans

EC template 2013/342/EU for NEEAPs



Evaluation of NEEAPs by the JRC

Two-step evaluation approach:

1. Check if all compulsory elements listed in the template adopted by the European Commission were sufficiently addressed

- scoring system: 0 points for missing information, 0.5 points for partly addressed/unclear information and 1 for adequately sufficient information

2. Detailed analysis on the quality of the information given and the implementation status of various articles under EED

- Country reports with an overview of the main measures, assessment of compulsory elements addressed in the NEEAP, implementation strengths and weaknesses

Template for policies & measures

Measure References	<p>[Please insert the measure name]</p> <p>[If applicable, please insert reference of national transposed law]</p>	<input type="text"/> <input type="text"/>	<p>Drop-down lists</p>	300 chars left						
Policy measure type	<p>[If more than 3 selections are needed or the right selection is not included in the list, please fill the section "Other"]</p>	<p>[Please select policy type(s)]</p> <p>[Please select policy type(s)]</p> <p>[Please select policy type(s)]</p> <p>Other: <input type="text"/></p>		↙						
Target sector(s)	<p>[Please select the target sector(s) by ticking the relative check boxes]</p> <p>[Please select if target sector(s) concern private and/or public entities]</p>	<p><input type="checkbox"/> Residential <input type="checkbox"/> Services <input type="checkbox"/> Industry <input type="checkbox"/> Energy Supply</p> <p><input type="checkbox"/> Transport <input type="checkbox"/> Agriculture <input type="checkbox"/> Other: <input type="text"/></p> <p><input type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Other: <input type="text"/></p>	<p>Pre-defined options</p>							
Target beneficiary(ies)		<p><input type="checkbox"/> General public/citizens <input type="checkbox"/> Governements/Public authorities <input type="checkbox"/> Households</p> <p><input type="checkbox"/> Energy providers <input type="checkbox"/> ESCOs <input type="checkbox"/> Small and medium enterprises <input type="checkbox"/> Manufacturers/retailers</p> <p><input type="checkbox"/> Designers/installers <input type="checkbox"/> University/Research <input type="checkbox"/> Other: <input type="text"/></p>		↙						
Legal basis	<p>[If more than 3 selections are needed or the right selection is not included in the list, please fill the section "Other"]</p>	<p>[Please select legal basis]</p> <p>[Please select legal basis]</p> <p>[Please select legal basis]</p> <p>Other: <input type="text"/></p>								
Implementation status	<p>[Please select the implementation status from the list]</p>	<p>[Please select implementation status]</p> <p>Other: <input type="text"/></p>								
Implementation period	<p>[Please insert the starting and ending dates of the implementation period. If needed please fill the "Notes" box]</p>	<table border="1"> <thead> <tr> <th data-bbox="846 966 929 985">Starting date</th> <th data-bbox="1087 966 1170 985">Ending date</th> <th data-bbox="1460 966 1508 985">Notes</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </tbody> </table>	Starting date	Ending date	Notes	<input type="text"/>	<input type="text"/>	<input type="text"/>	<p>Short text & concise information</p>	
Starting date	Ending date	Notes								
<input type="text"/>	<input type="text"/>	<input type="text"/>								
Implementation body	<p>[Please fill the box with name of the body(ies) who implemented the measure]</p>	<input type="text"/>	500 chars left							
Short measure description	<p>[Please describe the measure in the following box (max 2000 chars)]</p>	<input type="text"/>	2000 chars left							

Annual reports (EED Annex XIV)

- (a) Energy statistics and explanation behind growth or stable consumption
- (b) Updates on major legislative and non-legislative measures implemented in previous year, contributing towards 2020 targets;
- (c) - (d) Central government building stock and progress on renovation of central government buildings (Article 5)
- (e) Progress achieved in implementing national energy efficiency obligation schemes or alternative measures (Article 7)

Annual report template

Please, fill in the green fields (the grey ones are strong recommended, but voluntary). It can be chosen if Eurostat data or data based on national statistics is provided. Please, fill in [Table A](#) if data from Eurostat is re provide definitions.

Annual Report	2017
Reporting year	2015
Member State	

Table A - Eurostat data

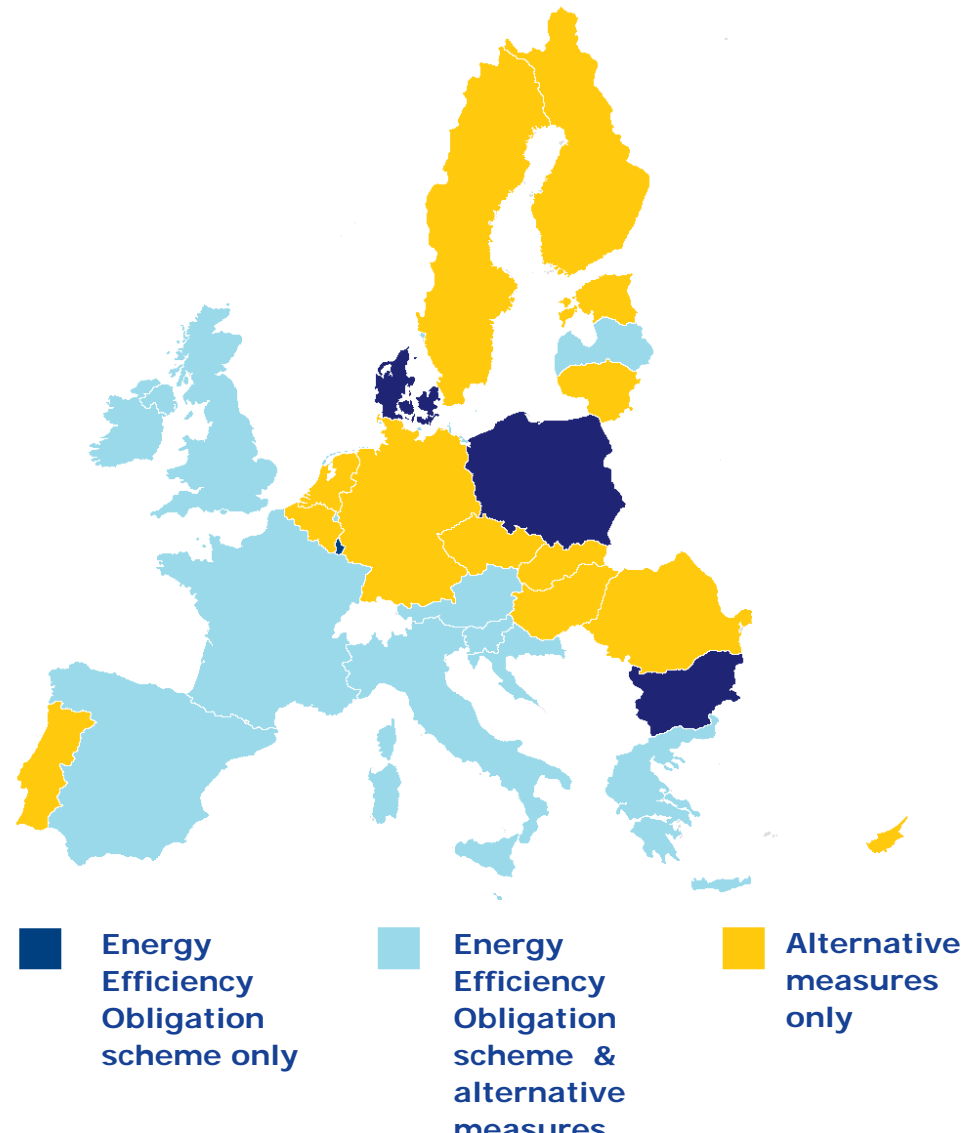
Number	Data field	AR Indicator	Unit(s)	Eurostat Indicator(s)	Eurostat database table	Eurostat Code	field/p
A1	46	(i) primary energy consumption	Mtoe	Primary Energy Consumption	Energyaving - annual data [nrq_in4_334a]	E_100910	
A2	35,780	(ii) total final energy consumption	ktoc	Final Energy Consumption	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_101700	All
A3	11,891	(iii) final energy consumption - industry	ktoc	Final Energy Consumption - Industry	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_101800	All
A4	10,444	(iii) final energy consumption - transport	ktoc	Final Energy Consumption - Transport	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_101900	All
A5	46	final energy consumption in pipeline transport	ktoc	Consumption in Pipeline transport	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_101945	All
A6	8,136	(iii) final energy consumption - households	ktoc	Residential	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_102010	All
A7	4,558	(iii) final energy consumption - services	ktoc	Services	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_102035	All
A8	722	final energy consumption - agriculture	ktoc	Agriculture/Forestry	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_102030	All
A9	13,445	final energy consumption - other sectors	ktoc	Other sectors	Supply, transformation, consumption - all products - annual data [nrq_100a]	E_102000	All
A10	80,132	(iv) gross value added - industry	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)	- Industry (except construction) - Construction	Gross value added and income by A*10 industry breakdown [nma_10_s10]	- B-E - F	Value
A11	232,243	(iv) gross value added - services	Million euro, chain-linked volumes, reference year 2005 (at 2005 exchange rates)	- Wholesale and retail trade, transport, accommodation and food service activities - Information and communication - Financial and insurance activities - Real estate activities - Professional, scientific and technical activities; administrative and support service activities - Public administration, defence, education, human health and social work activities - Arts, entertainment and recreation; other service activities; activities of household and extraterritorial organizations and bodies	Gross value added and income by A*10 industry breakdown [nma_10_s10]	- G-I - J - K - L - M,N - O-Q - R-U	Value
A12	229,300	(v) disposable income for households	Million euro	Gross disposable income	Non-financial transactions [nra_nf_tr]	Until 2017: S14 (if available) or S14, S15; From 2017 on: S14 only	*Household *Household institute household
A13	406,818	(vi) gross domestic product (GDP)	Million euro, chain-linked volumes, reference year 2014 (at 2014 exchange rates)	Gross domestic product at market prices	GDP and main components - volume [nma_qd_k]	E1GM	

Policies & measures

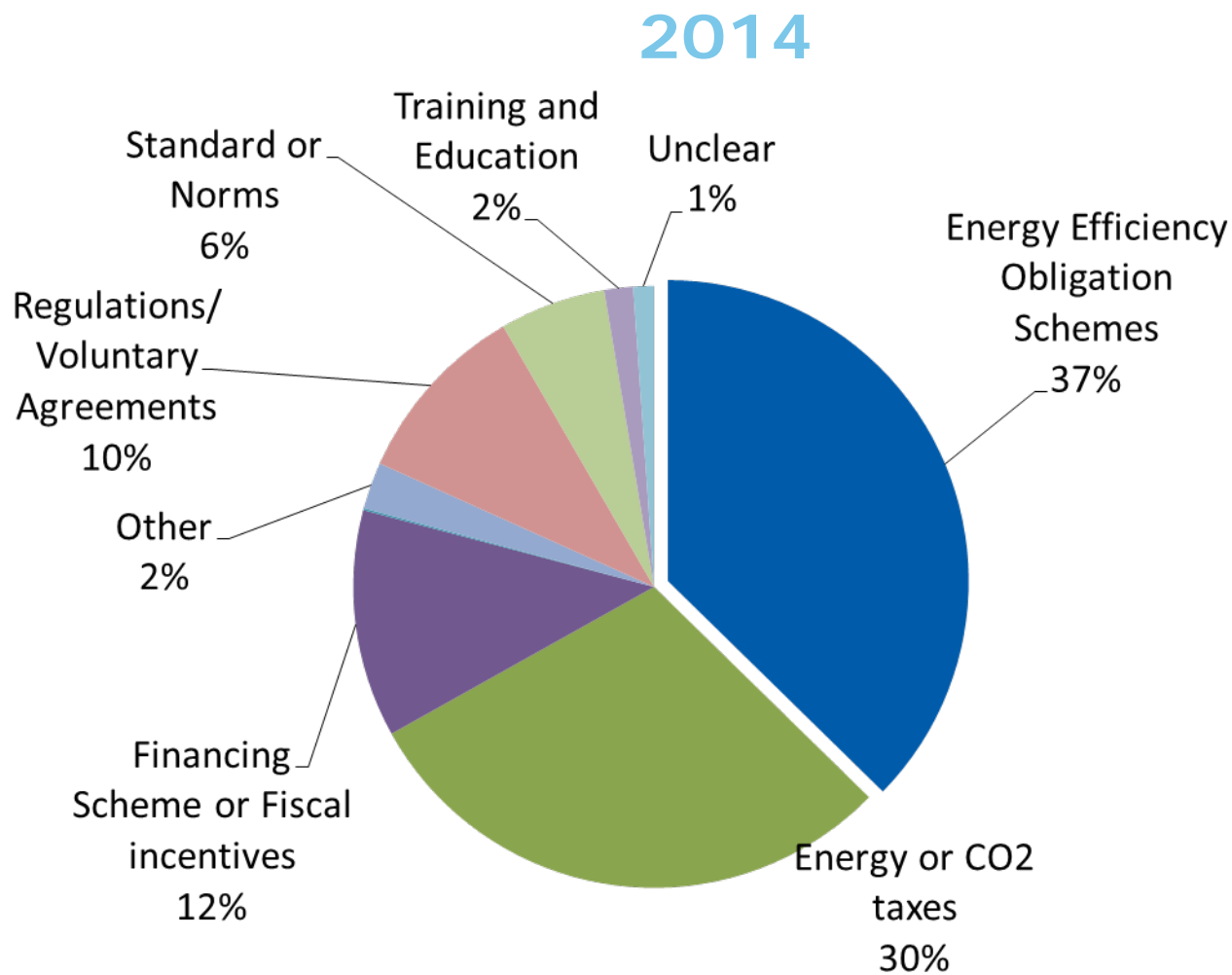
Energy Efficiency Obligation Schemes

Article 7

- MSs to set up an EEOS to ensure energy distributors and/or retail energy sales companies achieve a cumulative **end-use energy** savings target by 31 December 2020: at least new savings from 1 January 2014 to 31 December 2020 of 1,5 % of the annual energy sales to final customers
- MSs may opt to take alternative measures to meet target provided they meet certain criteria



Article 7 overview of achieved savings



Energy Efficiency Obligation Schemes

Article 7

Italy

- Obligation on electricity & gas distribution companies with more than 100,000 customers since 2005 (50,000 threshold from 2008)
- Scope: all final consumers (mainly industry) except electricity generation
- Electricity and gas distributors may fulfil their obligation by implementing EE projects entitled to white certificates or by buying white certificates from other parties in Certificates Market organised by the GME.

France

- Obligation on suppliers of gas, electricity, LPG, heating oil and district heating/cooling since 2006
- Scope: all final consumers (mainly households)
- The majority of the obligation is met via incentives to consumers (e.g. low interest loans, direct subsidies etc.).

Energy Efficiency Obligation Schemes

Article 7

	Combined with altern. measures	2014 requirement [ktoe]	2014 savings [ktoe]		Share [%]	Expected cumulative savings in 2014-2020 (ktoe)
BG	No	69	15		22%	1,942
DK	No	238	204		86%	3,841
IE	Yes	73	71		97%	2,164
EL*	Yes	100	74		74%	3,333
ES	Yes	493 ^(p)	565			15,979
FR	Yes	738	1,585		215%	31,384
HR	Yes	29	2.5		9%	1,296
IT	Yes	850	1,232		145%	25,502
LV	Yes		5			851
LU	No	0	0		0%	515
MT	Yes	0.62	1.47		238%	56
AT	Yes	400 ^(p)	714			5,200
PL	No		403			14,818
SI	Yes	23	18		76%	945
UK	Yes	2,347	2,382		101%	27,859

Energy Efficiency Obligation Schemes

Article 7

	Measures	2014 requirement [ktoe]	2014 achievement [ktoe]	Share %	Expected cumulative savings in 2014-2020 [ktoe]
BE	Alternative only	247 ^(p)	180		6,911
CZ	Alternative only	173 ^(p)	65		4,841
DE	Alternative only	2,844	2,548	90%	41,989
EE*	Alternative only	48	41	87%	610
CY	Alternative only	6.5	2.2	34%	242
LT*	Alternative only		38		1,004
HU	Alternative only	75	75	100%	3,680
NL	Alternative only	373	666	179%	11,512
PT	Alternative only	53	46	88%	2,532
RO	Alternative only	346	364	105%	5,817
SK	Alternative only	71	72	101%	2,284
FI	Alternative only		561		4,213
SE	Alternative only	997	252	25%	9,114

Building renovation strategies

Article 4

- a) An overview of the national building stock based, as appropriate, on statistical sampling;
- b) Identification of cost-effective approaches to renovations relevant to the building type and climatic zone;
- c) Policies and measures to stimulate cost-effective deep renovations of buildings, including staged deep renovations;
- d) A forward-looking perspective to guide investment decisions of individuals, the construction industry and financial institutions;
- e) An evidence-based estimate of expected energy savings and wider benefits.

Building renovation strategies

Article 4

Regulatory

UK: mandatory minimum energy efficiency standard for rented properties

Financial and fiscal

FR Innovative renovation financing scheme: Energies Posit'if

NL "Energiesprong" (Energy Leap)

IT "Conto Termico" (Thermal Account)

Information campaign

LV "Let's live warmer!" information campaign

Other measures

Research and Innovation (Research programmes in UK and DE)

Examples of JRC analysis on NEEAPs



JRC SCIENCE FOR POLICY REPORT

Assessment of the first National Energy Efficiency Action Plans under the Energy Efficiency Directive

Synthesis Report

Economidou, Marina; Labanca, Nicola; Castellazzi, Luca; Serrinho, Tiago; Bertoldi, Paolo; Zancanella, Paolo; Paci, Daniele; Panev, Strahil; Gabrielaitiene, Irena

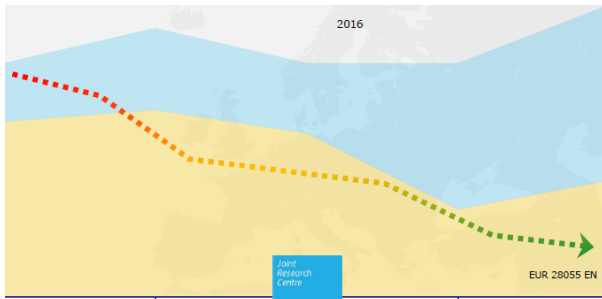


Figure 4. Evaluation of information provided by Member States for horizontal measures in the NEEAPs according to the elements listed in the EC template
Energy Efficiency Obligations

Figure 7. Comparison of 2020 National Primary Energy Consumption Targets and PRIMES 2007 model projections

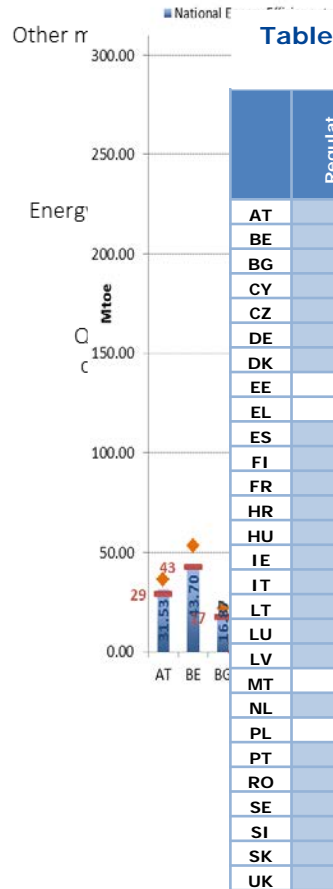
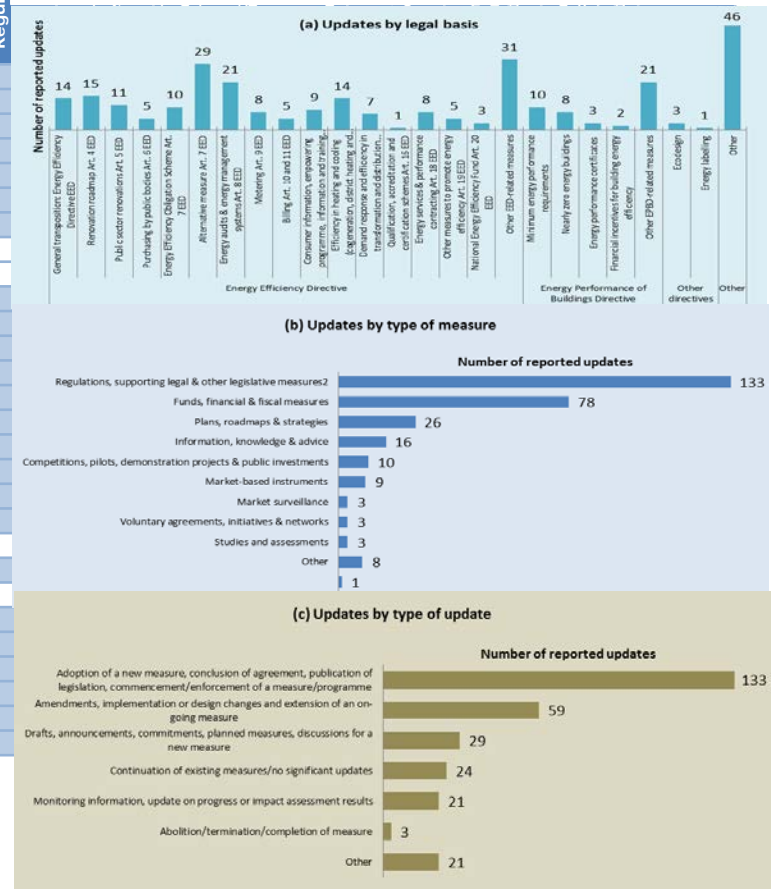


Table 11. Measures listed in the NEEAP targeting the residential sector

Figure 4. Summary of policy updates reported in AR2016



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