

EMEEES


Evaluation and Monitoring for the EU Directive
on Energy End-Use Efficiency and Energy Services

Template National Energy Efficiency Action Plan 2007

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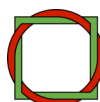


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Preface

Directive 2006/32/EC on energy end-use efficiency and energy services (ESD) requires Member States (MS) to submit three national energy efficiency action plans (NEEAPs) to the European Commission (EC). The first NEEAP is due by June 30, 2007.

This document contains a proposed template for the structure of the 2007 NEEAP. The template has been developed to meet the minimum requirements for reporting set out in the ESD and is meant to serve much as a check list.

MS are, however, free to provide more ample information regarding certain aspects of the NEEAP and are invited to do so if they so wish, e.g., on the methods that will be used to monitor and evaluate energy savings.

The use of this template is not mandatory for MS. The template is a tool developed to assist the MS in drafting their 2007 NEEAPs, and it covers all the elements that the 2007 NEEAP should include.

Please note that the template in its current form is not suitable for the 2011 and 2014 NEEAPs. The 2011 and 2014 have other reporting requirements.

The template has been developed by the EMEEES project. Information on the project and its 21 partners, which hail from 13 EU MS and Norway, is provided on the last page of this document.

A first draft of the template was presented to and discussed with the EC and the Article 16 Committee at the second meeting of the 'Energy Services' Formation of the Energy Demand Management Committee in Brussels on April 12, 2007. Comments received during the committee meeting and written comments submitted by MS to the EC have been duly considered in the preparation of this revised version.

The sole responsibility for this publication, however, lies with the EMEEES project, represented by the Co-ordinator, Stefan Thomas, Wuppertal Institute for Climate, Environment and Energy. The EMEEES project receives financial support from the Intelligent Energy – Europe programme, under Contract No: EIE/06/128/SI2.445841, as well as from a number of MS governments, other sources, and own funding from project partners.

EMEEES partners and the co-ordinator take no liability for the consequences of using this template.

The template may be freely disseminated.

Proposed structure and table of contents for the National Energy Efficiency Action Plan 2007

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1 Executive Summary and Summary Table

(2-3 pages)

This section should include a summary of the essential information from each chapter. It should cover qualitative as well as quantitative data, particularly, the size of the target and whether the measures foreseen by Member State (MS) will be sufficient to meet it.

National indicative annual energy savings target adopted for 2016 (GWh)		
National intermediate indicative annual energy savings target adopted for 2010 (GWh)		
Energy efficiency improvement programmes, energy services, and other measures to improve energy efficiency planned for achieving the target	Annual energy savings expected by end of 2010 (GWh)	Annual energy savings expected by end of 2016 (GWh)
Measures in the residential sector: 1) 2) ...	1) 2) ...	1) 2) ...
Measures in the tertiary sector: 1) 2) ...	1) 2) ...	1) 2) ...
Measures in the industrial sector (ESD scope): 1) 2) ...	1) 2) ...	1) 2) ...
Measures in the transport sector: 1) 2) ...	1) 2) ...	1) 2) ...

Horizontal and cross-sectoral measures: 1) 2) ...	1) 2) ...	1) 2) ...
Total ESD energy savings expected:		
Measures to implement Article 7 on availability of information: 1) 2) ...		
Measures to implement Article 5 on the public sector: 1) 2) ...		

<p>Name of contact person for NEEAP follow-up:</p> <p>Function:</p> <p>Organisation:</p> <p>Postal address:</p> <p>E-mail:</p> <p>Telephone:</p> <p>Fax:</p>

2 Overall national indicative target

2.1 Calculation of the national target

Table for the calculation of the national saving target

	Year 1				Years 2-5
	Non-electricity fuel x	Non-electricity fuel y	Electricity	Total	in the same structure
	Unit GWh				
Final inland energy consumption¹					
<i>Exemption: energy consumption in undertakings involved in activities covered by Emissions Trading Directive</i>					
Final inland energy consumption in scope of ESD					
Of which: Residential sector					
Tertiary sector					
Industry (ESD scope)					
Transport					
Agriculture ²					

Average over 5-year period

9% energy saving target in 2016

Energy saving target adopted (9% or higher)

Intermediate target in 2010 adopted

	GWh
	GWh
	GWh
	GWh

Please indicate here, if there is an Annex with a more detailed calculation.

¹ Net of energy consumption of armed forces (if included in FIEC)

² If not included in one or more of the other sectors

2.2 Specific aspects in the calculation of the national target

2.2.1 Peculiarities of the data generation on final inland energy consumption

2.2.2 Interface with the sectors covered by the ET Directive and military use

Emissions Trading (ET)

ET Directive: Directive 2003/87/EC of the European Parliament and of the Council of 13 October 2003 establishing a scheme for greenhouse gas emission allowance trading within the Community³

2.2.3 Overview of conversion factors

Indicate the conversion factor used for electricity:

Indicate conversion factors used for non-electricity fuels and include a justification if factors are different from the values listed in Annex II of the ESD:

2.2.4 Definition of the boundary between final inland consumption and the supply (or transformation) sector

Please describe the precise boundary between types of energy that are part of the final inland consumption or part of the supply (or transformation) sector. Please indicate in particular, to which extent district heating, as well as heat and electricity from combined heat and power plants at the site of a final customer, are included in final inland consumption.

³ OJ L 275, 25.10.2003, p. 32. Directive as amended by Directive 2004/101/EC (OJ L 338, 13.11.2004, p. 18).

3 Sectoral presentation and assessment of energy efficiency improvement programmes, energy services, and other measures to improve energy efficiency

3.1 Energy efficiency improvement measures in the residential sector

3.1.1 Overview table of all EEI measures

Proposed table structure for overview presentation of all measures in the residential sector:

Note: please add lines if the number of measures is higher than 5

No	Title of the EEI measure	end-use EEI action targeted	Duration	Annual energy savings expected in 2016
1			dd/mm/yy to dd/mm/yy	GWh of [type(s) of fuel]
2			dd/mm/yy to dd/mm/yy	GWh of [type(s) of fuel]
3			dd/mm/yy to dd/mm/yy	GWh of [type(s) of fuel]
4			dd/mm/yy to dd/mm/yy	GWh of [type(s) of fuel]
5			dd/mm/yy to dd/mm/yy	GWh of [type(s) of fuel]

3.1.2 Description of individual EEI measures

Proposed table structure for presentation of individual measures in the residential sector:

Note: The first column in the table contains the type of information that should be included in the NEEAP. The second column would be filled in when preparing the NEEAP; the information given here is meant as guidance on more precisely what to present regarding each item.

Title of the EEI measure	<i>Please insert the title of the EEI measure described here</i>
Category	<i>Please categorise the EEI measure or package of EEI measures, based on the structure presented in the table in the Annex to the template: which type of energy efficiency improvement programme, energy service, or other measure to improve energy efficiency is it?</i>

	<i>An indicative list of categories and subcategories of EEI measures to choose from is provided in the Annex to the template.</i>
Regional application	<i>Please indicate whether the EEI measure or package of EEI measures is or will be effective in the whole country or only in one or several specific regions</i>
Target group	<i>Please describe the target group(s) (energy consumption sub-segment) which is (are) addressed by the EEI measure; the description should include the share of final energy consumption in the target group addressed compared to the total energy consumption of all final energy consumers addressed by the ESD in the respective Member State (for the last available year).</i>
End-use EEI action targeted	<i>Please provide a list of end-use EEI actions which are potentially implemented as a consequence of the EEI measure.</i>
Effectiveness	<i>Please give a detailed qualitative description of the individual elements of the EEI measures and of the way in which the EEI measure leads to energy savings at the final energy consumer ("effectiveness model"); if applicable the description should also include connections and inter-linkages with other EEI measures; the description should not exceed 2000 characters (if necessary more detailed information can be included in an Annex).</i>
If available: expected annual energy savings in 2016 and 2010	<i>Please indicate the quantity in GWh per year that is expected to be achieved by 2016 (2010), and of which fuels/electricity, how much of it stems from the period 2008-16, how much from 1995-2007; What conversion factors have been used?</i>
Status of implementation and exact timeframe	<i>Concerning their status of implementation, the EEI measures should be categorised as follows:</i> <ul style="list-style-type: none"> ○ <i>EEI measure implemented as described no earlier than 1995 (1991) and still effective in 2010 and 2016 respectively; no major adaptations planned – "Early Actions"</i> ○ <i>EEI measure implemented as described no earlier than 1995 (1991) and still effective in 2010 and 2016 respectively,</i>

	<p><i>major adaptations as described – “Early Actions”</i></p> <ul style="list-style-type: none"> ○ <i>new EEI measure, process of implementation started</i> ○ <i>new EEI measure planned or under consideration, process of implementation not started yet</i> <p><i>What is the exact date of start and end of the EEI measures?</i></p>
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3.1.3 Assessment of total ESD energy savings in the sector expected for the period 2008-2016 and for the intermediate period 2008-2010

"ESD energy savings" are the energy savings to be counted towards the achievement of the national indicative energy savings target according to Article 4 of the ESD.

Please provide information that allows the European Commission to assess whether implementation of the measures included in the NEEAP will enable achievement of the national indicative energy savings target in 2016 (2010) (taking the information on all sectors together).

Member States are invited to present as much detail as deemed necessary here or in an Annex including information on the monitoring and evaluation of energy savings.

3.2 Energy efficiency improvement measures in the tertiary sector

3.2.1 Overview table of all EEI measures

Provide overview of all EEI measures in tertiary sector using the same table structure as in chapter 3.1.1

3.2.2 Description of individual EEI measures

Provide overview of individual EEI measures in tertiary sector using the same table structure as in chapter 3.1.2

3.2.3 Assessment of total ESD energy savings in the sector expected for the period 2008-2016 and for the intermediate period 2008-2010

3.3 Energy efficiency improvement measures in the non ET industry sectors

3.3.1 Overview table of all EEI measures

Provide overview of all EEI measures in the industry sector using the same table structure as in chapter 3.1.1

3.3.2 Description of individual EEI measures

Provide overview of individual EEI measures in industry sector using the same table structure as in chapter 3.1.2

3.3.3 Assessment of total ESD energy savings in the sector expected for the period 2008-2016 and for the intermediate period 2008-2010

3.4 Energy efficiency improvement measures in the transport sector

3.4.1 Overview table of all EEI measures

Provide overview of all EEI measures in the transport sector using the same table structure as in chapter 3.1.1

3.4.2 Description of individual EEI measures

Provide overview of individual EEI measures in the transport sector using the same table structure as in chapter 3.1.2

3.4.3 Assessment of total ESD energy savings in the sector expected for the period 2008-2016 and for the intermediate period 2008-2010

3.5 Energy efficiency improvement measures in the agricultural sector

Describe measures in the agricultural sector here unless they are included in the other sectors.

3.5.1 Overview table of all EEI measures

Provide overview of all EEI measures in agricultural sector using the same table structure as in chapter 3.1.1

3.5.2 Description of individual EEI measures

Provide overview of individual EEI measures in the agricultural sector using the same table structure as in chapter 3.1.2

3.5.3 Assessment of total ESD energy savings in the sector expected for the period 2008-2016 and for the intermediate period 2008-2010

4 Horizontal and cross-sectoral measures

4.1 *Overview table of all horizontal and cross-sectoral EEI measures*

Overview table of all horizontal and cross-sectoral EEI measures using the same table structure as in chapter 3.1.1

4.2 *Description of individual horizontal and cross-sectoral EEI measures*

Describe individual horizontal and cross-sectoral EEI measures using the same table structure as in chapter 3.1.2

4.3 *Assessment of total ESD energy savings expected for the period 2008-2016 and for the intermediate period 2008-2010 from horizontal and cross-sectoral measures*

5 Measures specifically required to be reported in 2007 NEEAP by the ESD⁴

5.1 Article 5 on measures in the public sector

Proposed table structure for presentation of individual measures in the public sector:

Note: The first column in the table contains the type of information that should be included in the NEEAP. The second column would be filled in when preparing the NEEAP; the information in italics in the table below is meant as guidance on more precisely what to include regarding each item.

Title	<i>Include reference to the relevant Article in the ESD here.</i>
Relevant EEI measures	<i>Include reference to the description of measures in chapter 3 or 4 that are related to the transposition of the given Article in the ESD.</i>
Title of legislation or regulation	<i>If applicable, include the title of legislation or regulation which refers to the transposition of the Directive.</i>
Link to publication	<i>If applicable, provide a link to an official journal or any other relevant publication related to legislation or regulation which refers to the transposition of the Directive.</i>
Date of entry into force	<i>If applicable, date of entry into force of legislation or regulation which refers to the transposition of the Directive.</i>

5.2 Article 7 on availability of information

Provide overview of Article 7 measures using the same table structure as in chapter 5.1

⁴ While the measures mentioned in Articles 6 and 8-13 have a transposition deadline of 17 May 2008, earlier transposition can of course be credited towards the savings target and can be described in the 2007 NEEAP.

Annex to NEEAP (optional)

A more detailed calculation of the national indicative energy savings target may be presented in an Annex.

Any other information that provides more detail, e.g., on energy efficiency improvement programmes, energy services and other energy efficiency improvement measures, including stakeholders involved or responsible for the implementation, may be annexed as well.

Annex to the template for table in chapter 3.1.2 and 3.x.2

Categories and subcategories of EEI measures to choose from

Category	Subcategories
1 Regulation	<i>Standards and norms:</i> 1.1 Building Codes and Enforcement 1.2 Minimum Equipment Energy Performance Standards
2 Information and mandatory information measures (e.g. mandatory labelling)	2.1 <i>Focused information campaigns</i> 2.2 <i>Energy labelling schemes</i> 2.3 Information Centres 2.4 <i>Energy Audits</i> 2.5 <i>Training and education</i> 2.6 <i>Demonstration*</i> 2.7 <i>Exemplary role of the public sector</i> 2.8 <i>Metering and informative billing*</i>
3 Financial instruments	3.1 <i>Subsidies (Grants)</i> 3.2 <i>Tax rebates and other taxes reducing energy end-use consumption</i> 3.3 <i>Loans (soft and/or subsidised)</i>
4 Voluntary agreements and co-operative instruments	4.1 Industrial Companies 4.2 Commercial or Institutional Organisations 4.3 <i>energy efficiency public procurement</i> 4.4 Bulk Purchasing 4.5 Technology procurement
5 Energy services for energy savings	5.1 <i>Guarantee of energy savings contracts</i> 5.2 Third-party Financing 5.3 <i>Energy performance contracting</i> 5.4 <i>Energy outsourcing</i>
6 EEI mechanisms and other combinations of previous (sub)categories	6.1 Public service obligation for energy companies on energy savings including " <i>White certificates</i> " 6.2 <i>Voluntary agreements</i> with energy production, transmission and distribution companies 6.3 <i>Energy efficiency funds</i> and trusts

* Energy savings can be allocated to these subcategories only if a direct or multiplier effect can be proven. Otherwise they must be evaluated as part of a package. Terms in *italics* are those used in the ESD.

The Project “Evaluation and Monitoring for the EU Directive on Energy End-Use Efficiency and Energy Service” (EMEEES) in brief

The objective of this project is to assist the European Commission in developing harmonised evaluation methods. It aims to design methods to evaluate the measures implemented to achieve the 9% energy savings target set out in the EU Directive (2006/32/EC) (ESD) on energy end-use efficiency and energy services. The assistance by the project and its partners is delivered through practical advice, technical support and results. It includes the development of concrete methods for the evaluation of single programmes, services and measures (mostly bottom-up), as well as schemes for monitoring the overall impact of all measures implemented in a Member State (combination of bottom-up and top-down).

Consortium

The project is co-ordinated by the Wuppertal Institute. The 21 project partners are:

Project Partner	Country
Wuppertal Institute for Climate, Environment and Energy (WI)	D
Agence de l'Environnement et de la Maitrise de l'Energie (ADEME)	F
SenterNovem	NL
Energy research Centre of the Netherlands (ECN)	NL
Enerdata sas	F
Fraunhofer-Institut für System- und Innovationsforschung (FhG-ISI)	D
SRC International A/S (SRCI)	DK
Politecnico di Milano, Dipartimento di Energetica, eERG	I
AGH University of Science and Technology (AGH-UST)	PL
Österreichische Energieagentur – Austrian Energy Agency (A.E.A.)	A
Ekodoma	LV
Istituto di Studi per l'Integrazione dei Sistemi (ISIS)	I
Swedish Energy Agency (STEM)	S
Association pour la Recherche et la Développement des Méthodes et Processus Industriels (ARMINES)	F
Electricité de France (EdF)	F
Enova SF	N
Motiva Oy	FIN
Department for Environment, Food and Rural Affairs (DEFRA)	UK
ISR – University of Coimbra (ISR-UC)	P
KE Marked A/S (KEM)	DK
Centre for Renewable Energy Sources (CRES)	GR

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