



ROMANIAN AGENCY FOR ENERGY CONSERVATION



"The National Action Plan for Energy Efficiency - strategic document on promotion energy efficiency"

(The Romanian EEAP **2007-2010**)



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DIRECTIVE 2006/32/EC
on energy end-use efficiency and energy services

Energy efficiency- General targets

- security of energy supply
- competitiveness
- environment protection

Improved energy end-use efficiency

- to exploit potential cost-effective energy savings in an economically efficient way
- to reduce dependence on energy imports
- to mitigate the CO₂ and other greenhouse gas emissions and thereby to prevent dangerous climate change



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DIRECTIVE 2006/32/EC

The purpose

Enhance the cost-effective improvement of energy end-use efficiency:

- providing the necessary indicative targets as well as mechanisms, incentives and institutional, financial and legal frameworks to remove existing market barriers and imperfections that impede the efficient end use of energy;**
- creating the conditions for the development and promotion of a market for energy services and for the delivery of other energy efficiency improvement measures to final consumers.**



DIRECTIVE 2006/32/EC
on energy end-use efficiency and energy services

Art. 4 – Energy savings targets

Overall national indicative energy savings target of 9 % for the ninth year of application of this Directive, to be reached by way of energy services and other energy efficiency improvement measures. Member States shall take cost-effective, practicable and reasonable measures designed to contribute towards achieving this target.

Art.14 – Delivery terms

The National Energy Efficiency Action Plan (NEEAP)- deadline:

a first EEAP not later than 30 June 2007;

a second EEAP not later than 30 June 2011;

a third EEAP not later than 30 June 2014.



The National Energy Efficiency Action Plan (**NEEAP**)

Immediate Target - describing a framework of policies and measures regarding the intensify of process for realising some energy savings considering the present energy saving potential.

NEEAP sets energy efficiency measures that have to be launched the next years for implementing assumed energy savings.

NEEAP Strategy

- to mobilise the general public and policy-makers at all levels of government, together with market actors, and to transform the internal energy market in a way that provides EU citizens with the globally most energy-efficient infrastructure, buildings, appliances, processes, transport means and energy systems
- to encourage citizens to use energy in the most rational manner possible



The National Energy Efficiency Action Plan (**NEEAP**)

Measures of energy efficiency improvement included in the first NEEAP as follow :

- **Settlement**
- **Information and legislative measures**
- **Volunteer Agreement and Cooperation tools (Industrial Campaign, Long Term Agreement)**
- **Energy Services for energy savings (Third Party Financing, Energy Performance Contract**
- **Financial tools (Incentives, Taxes exception for building authorisation for thermal refurbishment works, Cofinance of works)**
- **Energy efficiency mechanism (Energy Efficiency Found)**



Energy saving target for Romania

Average on 2001-2005	[thousand toe] 20.840
9% energy saving till 2016	[thousand toe] 1.876*
Energy saving target adopted by Romania till 2016	[thousand toe] 2800**
Intermediate target for 2010	[thousand toe] 940***

* Minimum value in accordance with Directive 2006/32/EC

** 13,5 % from the medium consumption during 2001 – 2005 respectively 1,5 % annual

*** 4,5 % from the medium consumption during 2001 – 2005 respectively 1,5 % annual



Heat insulation and ventilation of multi-storey residential buildings constructed in the period 1950-1990

Actions for supporting energy efficiency measures

- thermal insulation of outside walls;
- thermal insulation of roofs;
- insulation of pipes fromthermic basement ;
- windows replacement.

Ordinance 174/2002, and the related Law 211/2003 relating to the establishment of special measures for the thermal rehabilitation of multi-storeyed buildings :

- **34 %** state budget
- **33 %** local budget
- **33 %** budget of owners associations

- In 2005, **23 buildings** were included and was made energetic audit and were realise projects for thermal refurbishments actions .
- In 2006, **614 buildings** were included and was made energetic audit .
- In 2007 will be realised projects for thermal refurbishments actions .



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Heat insulation and ventilation of multi-storey residential buildings constructed in the period 1950-1990 (on going)

Ongoing actions for measure's implementing

- For **new buildings**, starting **2007**, Energy Performance Certificate will be emitted
- For **present buildings** that will be sold or rented, starting **2010**, Energy Performance Certificate will be emitted

Managing Authority: MDLPL, INCERC.



Promotion of highly efficiency cogeneration

Actions for supporting energy efficiency measures

- *Through G.D no. 219/2007 were transposed in Romanian legislation the provisions of Directive 2004/8/CE regarding promotion of co-generation based on thermal energy demand on energy intern market*
- *Bonus supporting scheme adopting and implementing for promoting high efficiency cogeneration*

Ongoing actions for measure's implementing

- *Adopting harmonised reference value applicable at national level - deadline: 2007*
- *Realising and implementing through G.D. „bonus” supporting scheme for promoting high efficiency cogeneration - deadline: 2008*

Managing Authority : MEF, MIRA, ANRE



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Promotion of the use of energy-efficient light bulbs and household electrical appliances

Actions for supporting energy efficiency measures

- National legislation that takes over community acquis regarding requests of energy labeling at introduction on the market for household appliances (refrigerators, washing machines, dishwashing, dryers, ovens, air-conditioning, lamps).
- ARCE and ANPC Control actions at introduction on the market for householder appliances.
- Information Campaigns for householders.
- In 2006 -Regional Project: **UNDP-GEF** " Training programme to develop capabilities for the elimination of barriers and the reduction of implementation costs for energy efficiency standards and labelling in EU candidate countries"
- International cooperation - Energy Intelligent Europe- : **CEECAP** – Implementation of EU policy concerning householder appliances, in Central and East Europe" (ongoing 2007-2008).

Ongoing actions for measure's implementing

Promoting and supporting incandescent lamps replacement by energy efficient lamps and appliances for obtaining consumption reduction

During 2008-2010:

Promoting G.D. for supporting refrigeration appliances, washing machines and air-conditioning replacement, through state budget (50 Euro bonus for acquiring A/A+ appliances) - deadline: 2009

Managing Authority : MEF, ARCE

27 September 2007, Bucharest

Chamber of Commerce and Industry of Bucharest Municipality



Promotion of the development of Energy Service Companies (ESCO)

Actions for supporting energy efficiency measures

- to apply Energy Performance Contract for implementing energy efficiency measures and for guaranteeing energy savings by ESCO
- ARCE campaigns of promoting ESCO development in Romania (seminaries for applying energy efficiency legislation in municipalities, companies from industrial sector during 2003-2006)

Ongoing actions for measure's implementing

in 2007: Realising one MEF study from research-development Program regarding introduction ways in Romania of Directive 32/2006/CE measures that states as:

- analysing supporting ways for energy efficiency raise Programmes (white certificates, ESCO, Energy Performance Contract)
- Performance Contract realising as supporting mechanism for ESCO-s
- identifying and removing barriers existing in Romania regarding ESCO -s.

PHARE study on the point of starting regarding financial incentives mechanisms development for energy efficiency - deadline: 2008

during 2008-2010: Legislative framework elaboration for ESCO-s development

Managing Authority : MEF, ARCE



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Use of renewable resources

Actions for supporting energy efficiency measures

- Informational Campaigns during 2003-2006 (ARCE)
- Renewable Expo Technology in 2006 and 2007
- The National program for the reduction of energy costs for the population, by increasing energy efficiency and using renewable sources of energy- in 2006 and 2007

Ongoing actions for measure's implementing

during **2008 - 2010:**

- a G.D will be initiated for promoting investments Programmes designed to RES use for electricity and thermal energy production, aiming energy efficiency raise – deadline 2008
- Structural funds use for RES projects.

Managing Authority : MEF, ARCE



Measures for the improvement of energy efficiency in the industrial sector

- *Improvement of Energy Efficiency amongst industrial operators through the signing of long-term agreements (LTAs)*
- *The improvement of energy efficiency through financial support for investment projects designed to reduce energy demand*
- *Improvement of energy efficiency in industrial operators through the implementation of investment projects co-financed by community funds*

Managing authority: MEF, ARCE, MMDD



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THANK YOU FOR YOUR ATTENTION !