



AYEP

SUSTAINABLE ENERGY DEVELOPMENT AGENCY BULGARIA



SEDA

Bulgarian obligation scheme

Tsvetomira Kulevska
Energy Efficiency and Renewable Energy Planning and
Programming Directorate

NATIONAL ENERGY EFFICIENCY ACTION PLAN

Sets indicative target for the whole period of the Directive 2006/32/EC (till 2016)

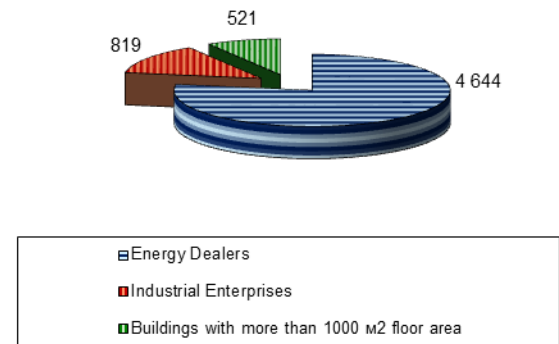
National target to 2016 is defined as a share of the final energy consumption - 9 % = 627 ktoe = **7 291 GWh**

National target is allocated as individual targets between the obligated persons. The obligated persons are separated in three groups as follows:

- Energy Dealers
- Owners of buildings with more than 1 000 m² floor area (municipal and state administrations)
- Owners of enterprises with annual consumption more than 3 000 MWh

The list of the obligated persons is adopted by Bulgarian Council of Ministers.

Individual energy savings targets in GWh





Calculation of the individual energy savings targets

A particular Ordinance of Energy Efficiency Law defines:

- The method for the determination of National indicative energy savings target and the order for its dispensation as individual energy savings targets for the obliged persons
- The permissible energy efficiency measures
- The methods for evaluation of the achieved energy savings and the methods for their confirmation

Energy Dealers:

The National energy savings targets is allocated by the type of the energy in proportion to the shares of the sold energy or fuels in the Final Energy Consumption during the last calendar year for which there are official statistical data.

The individual target is approximately 0,8%/ann. of the energy sales to final consumer.





Calculation of the individual energy savings targets - example

Natural Gas dealer "Happy Flame"

Natural Gas sold by "Happy Flames" in 2008	nm ³ /GWh	1 130 000	10,5
Natural Gas in Final Energy Consumption	ktoe/GWh	839	9 758
Final Energy Consumption (FEC)	ktoe/GWh	8 691	101 076
National Energy Efficiency Target	ktoe/GWh		7 291
Natural Gas share in FEC	-	0,10	
Energy efficiency target of all Natural Gas dealers	GWh	703,85	
Individual EE target of "Happy Flame"	GWh	0,76	

Initial data: Official declaration for the energy sales in 2008 submitted by the companies.

*Energy efficiency target of all Natural Gas dealers * / Natural Gas sold in 2008* / *Natural Gas in Final Energy Consumption*

$$703,85 * 10,5 / 9758 = 0,758$$

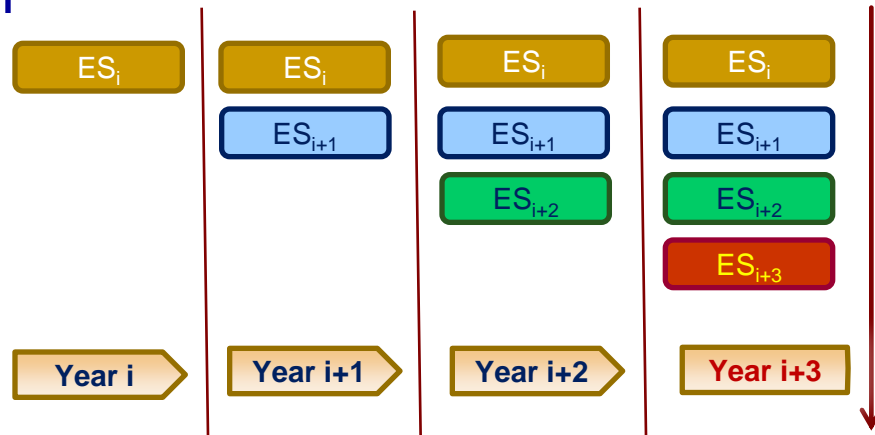
Liquid fuel dealer "Happy Oil"

Liquid fuels sold by "Happy Oil" in 2008	GWh		116
Liquid fuels in FEC	ktoe/GWh	3 271	38 042
FEC	ktoe/GWh	8 475	98 564
National Energy Efficiency Target	ktoe/GWh		7 291
Liquid fuels share in FEC	-	0,39	
Energy efficiency target of all Liquid fuels dealers	GWh	2 814,02	
Individual EE target of "Happy Oil"	GWh	8,60	





Individual targets - Evaluation



Methods for evaluation (bottom-up):

- Based on energy audits according to particular Ordinances for buildings, enterprises, boilers and air-conditioning systems - adopted by Bulgarian Council of Ministers
- Based on specialized methods recommended in EU acts
 - ⊖ Specialized method based on 11 harmonized formulas for evaluation of individual measures in buildings, industry and transport – adopted by Bulgarian Council of Ministers, 15.02.2013
- Engineering evaluations, developed by the authorized under Energy Efficiency Law persons
 - ⊖ Specialized method for energy savings evaluation after gasification – adopted by Bulgarian Council of Ministers, 19.10.2012



Individual targets – Monitoring and verification

SEDA is the responsible institution for the monitoring and verification of the individual targets implementation

- ✓ Annual reports for the energy efficiency plans and programs implementation and for the energy management
- ✓ Annual information from the obliged energy dealers for the implementation of their individual EE targets
- ✓ Voluntary agreements monitoring

👍 **Certificates for achieved energy savings** – issued by the executive director of SEDA



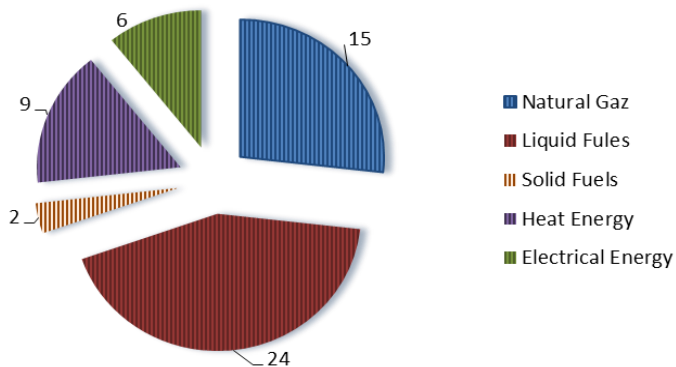
☹️ Penalties:

Special conditions for the energy dealers – the not-achieved part of the individual target (in leva/GWh) should be paid in Energy Efficiency Funds and used only for energy efficiency measures financing.

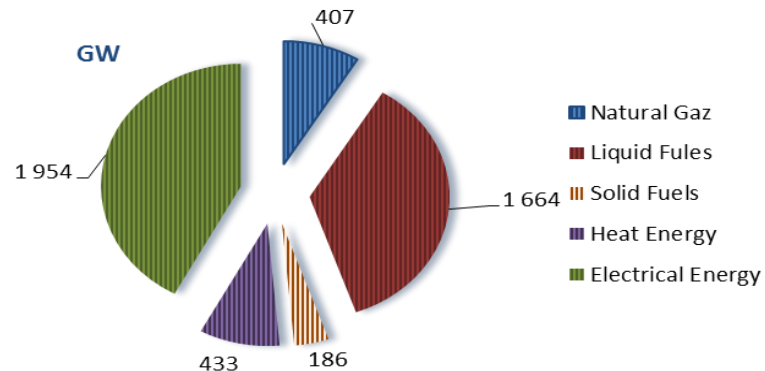


Individual energy savings targets: Energy Dealers – results

Number of energy dealers with individual energy savings target by type of fuel/energy



Individual energy savings targets by type of fuel/energy, results 2012



Expected energy savings: **155,2 GWh**

Total energy savings target to 2016 – **4 644 GWh (64% from the National target)**

Period	Target GWh/year	Achieved savings GWh/year	Implementation to 2012 %
2008-2013	2 322	948	40,8



Directive 2012/27/EC article 7 obligations – what we need to adapt?

- ✓ To involve more obligated energy suppliers – without limit for the annual sales
- ✓ To use new initial data – sales volume for 2010, 2011 and 2012
- ✓ To recalculate the individual targets (using 1,5%) and to spread the targets to 2020 (instead of 2016)
- ✓ To create incentives for the implementation of the targets
- ✓ To inform the obligated persons





Thank you for your patience!



Tsvetomira Kulevska

Sustainable Energy Development Agency

Tel: +359 2 915 40 71

Fax: +359 2 981 58 02

E-mail: kulevska@seea.government.bg

Web: www.seea.government.bg