



AYEP



SEDA

SUSTAINABLE ENERGY DEVELOPMENT AGENCY BULGARIA

Individual energy savings targets and their connection  
with the ESCO services

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## National and individual energy savings targets

National target to 2016 is defined as a share of the final energy consumption

National target is indicated in the National Action Plan and it 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 m<sup>2</sup> floor area (municipal and state administrations)
- Owners of enterprises with annual consumption more than 3000 MWh

The list of the obligated persons and their individual targets is being published in the National Action Plan and adopted by Bulgarian Council of Ministers.



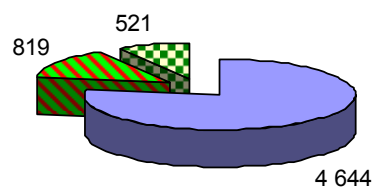
## Individual energy savings targets – obliged persons

Obligated persons with individual energy savings target



- Energy Dealers
- Industrial Enterprises
- Buildings with more than 1000 m2 floor area

Individual energy savings targets in GWh



- Energy Dealers
- Industrial Enterprises
- Buildings with more than 1000 m2 floor area

## 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 and the intermediate indicative energy savings targets are 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.

### Owners of buildings with more than 1 000 m<sup>2</sup> floor area (municipal and state administrations)

- For buildings with energy audit the individual target is equal to the half of the potential for the energy savings after the implementation of the prescribed measures

- For buildings without energy audit but with data for the energy consumption – the individual target is equal to the National indicative target (in %) multiplied by the energy consumption of the building.

- For buildings without energy audit and without data for the energy consumption - the individual target is a product of the half of the National indicative target in Services sector (in absolute values) and the ratio of the building floor area to the total floor area of all buildings in Services sector.

### Owners of enterprises with annual consumption more than 3000 MWh:

- For enterprises with energy audit the individual target is equal to the half of the potential for the energy savings after the implementation of the prescribed measures

- For enterprises without energy audit - the individual target is equal to the product of the half of the National indicative target in the relevant Industry sub-sector, the ratio of the enterprise's energy consumption to the sum of the consumptions of all enterprises in that sub-sector and the ratio of the energy intensity of that enterprise production to the average European level (if such data are available)

## Individual energy savings targets – periods and dead-lines

- The individual energy savings targets have to be implemented **by 2016**
- “How fast are we running?” - **2013** will be an intermediate term.
- The list with the obliged persons and their individual energy savings targets can be updated with the National Energy Efficiency Plan – 2011, 2013

The energy savings can be determined by evaluation and/or measuring of the energy consumption in every object

### Methods for evaluation:

- Based on energy audits according to particular Ordinances for buildings, enterprises, boilers and air-conditioning systems - already adopted by Bulgarian Council of Ministers
- Based on specialized methods recommended in EU acts - should be adopted by Bulgarian Council of Ministers
- Engineering evaluations, developed by the authorized under Energy Efficiency Law persons – should be adopted by Bulgarian Council of Ministers

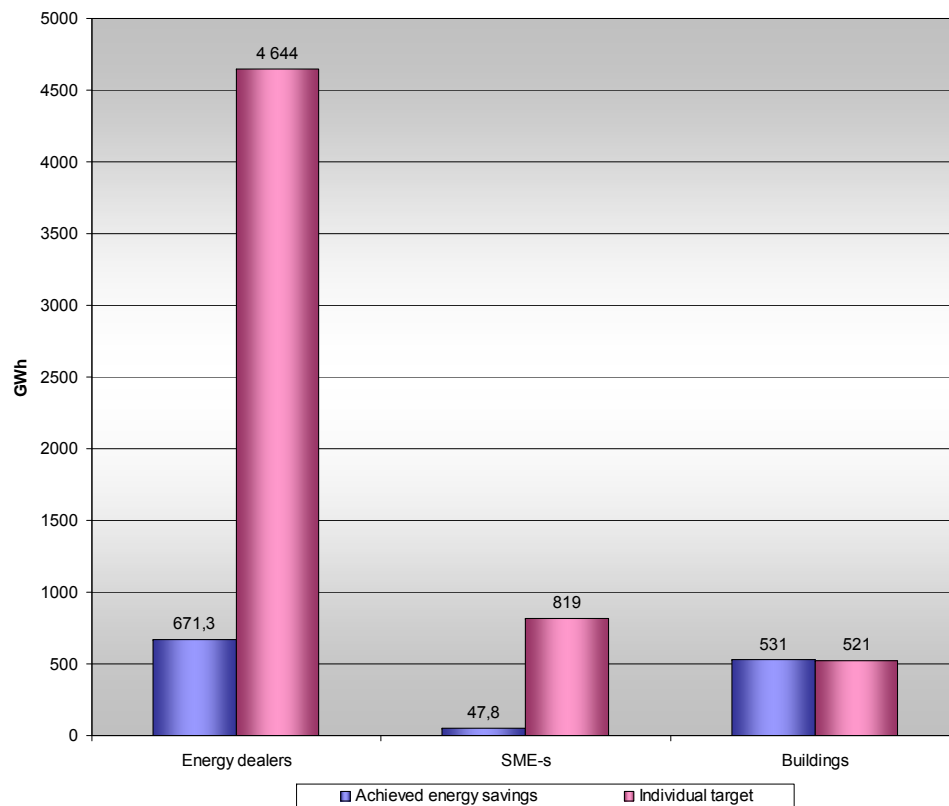
👉 **Certificates for achieved energy savings** – issued by the executive director of SEDA

### ☹ 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

**SEDA calculates the individual energy savings targets and is the responsible institution for their monitoring!**

## Individual energy savings targets – results



The results are based on obliged persons' own evaluation, i.e. they are so called "claimed" energy savings, which are still not proved according to the legislation.

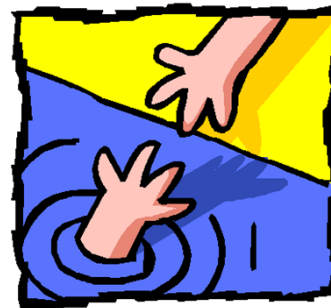
## Energy Services

### Provided to:

- Owners of buildings with more than 1 000 m<sup>2</sup> floor area (municipal and state administrations)
- Owners of enterprises with annual consumption more than 3000 MWh
- Households

### Scope of energy services:

- Energy advising
- Energy auditing
- Introduction of energy management system
- Implementation of technical measures on systems
- Implementation of technical measures on building envelop



## Mechanism for energy services

### Municipal and state administrations and SME-s:

- ✓ **Obligated persons** under Energy Efficiency Law with determined individual energy savings target
- ✓ Financial mechanisms for measures implementation:
  - Own financing
  - Bulgarian Energy Efficiency and Renewable Sources Fund
  - European Cohesion Funds - European Regional Development Fund, European Agriculture Fund
  - EBRD Credit Lines
  - Kozloduy International Decommissioning Support Fund
  - **Energy Services Providers (ESCO)**

### **ESCO services for the administrations:**

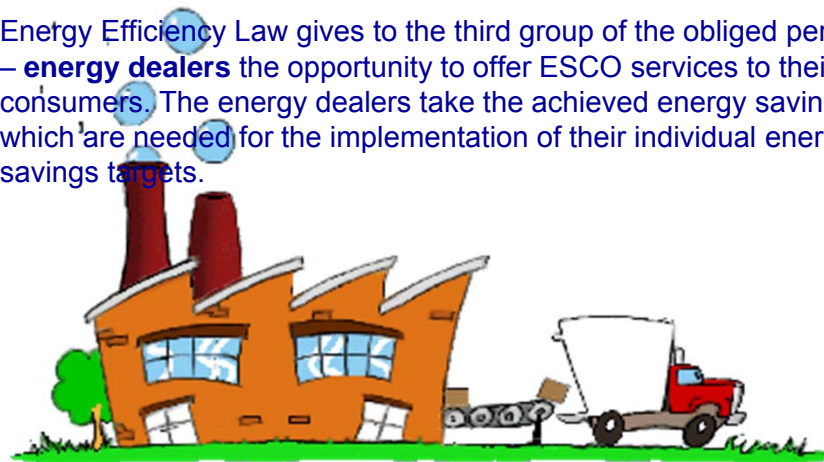
- ✓ Ordinance under Energy Efficiency Law for the conditions and the order for determination of the amount of the planned financial resources on energy performance contracts, leading to energy savings in buildings - municipal and state property
- ✓ The Ordinance doesn't obligate the owners to use ESCO contracting mechanism. It facilitates them if they use it.

### Households

- ✓ **Not obligated persons** under Energy Efficiency Law
- ✓ The implementation of the energy efficiency measures and the individual energy savings target could be financed by one or by combination of the following mechanisms:
  - Own financing
  - EBRD Credit Lines
  - **Energy Services Providers (ESCO)**

### **ESCO services:**

Energy Efficiency Law gives to the third group of the obligated persons – **energy dealers** the opportunity to offer ESCO services to their final consumers. The energy dealers take the achieved energy savings which are needed for the implementation of their individual energy savings targets.





ESCO Services - examples

**Municipal and state buildings:**



Kindergarten: Investments – € 156 219

Energy savings – 60 %



Hospital: Investments – € 238 415

Energy savings – 36,5 %

**Industrial enterprises:**



Brewery:

Investments – € 246 035

Heat energy savings – 2 000 MWh/year

Electrical energy savings – 300 MWh/year

**Municipal street lighting:**



Citizens – appr. 25 000 people

Investments – € 246 035

Energy savings – 1 720 MWh/year

Electrical energy savings – 300 MWh/year

Thank you!



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