



AYEP



SEDA

SUSTAINABLE ENERGY DEVELOPMENT AGENCY BULGARIA

## Energy Efficiency in Bulgaria

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CONCERTED ACTION  
**ENERGY EFFICIENCY**  
**DIRECTIVE**

*CA EED Plenary Meeting, Helsinki, 20 March 2019*  
*Information Session 4.8*



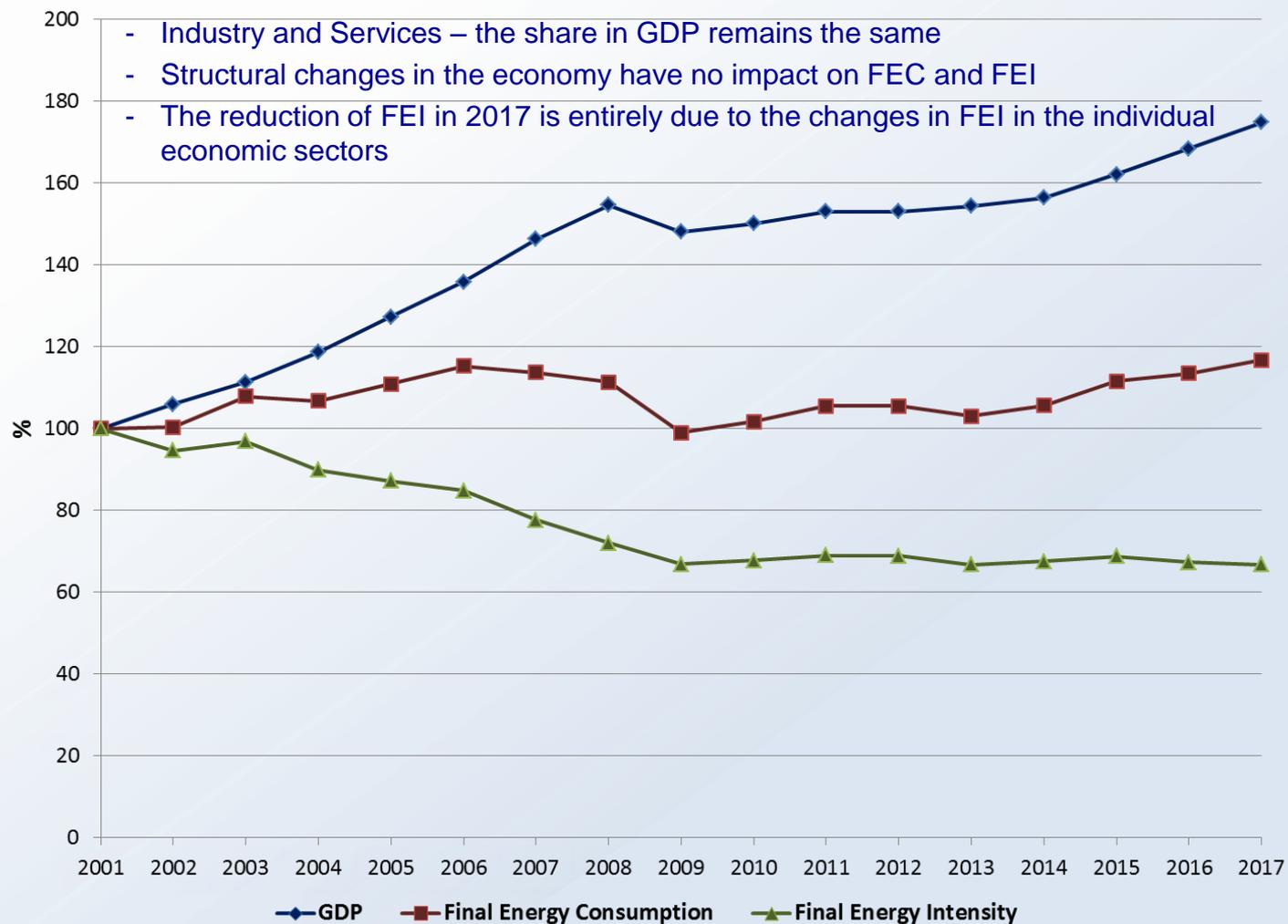
## Content

- ✍ Final energy consumption figures
- ✍ NEEAP Annual reporting – preliminary results for 2018
- ✍ Successful measures
- ✍ Energy Efficiency potential - EEOS and others





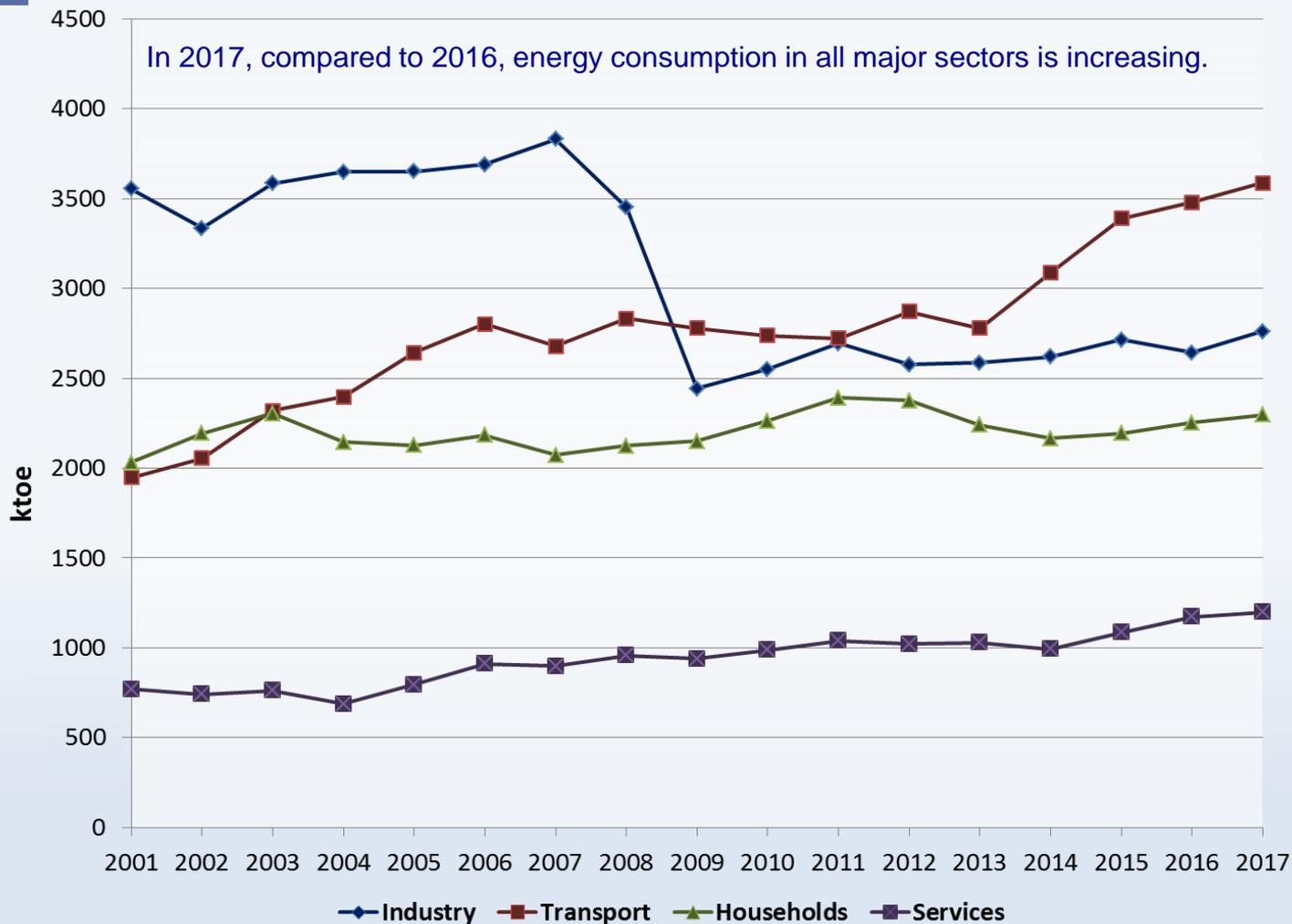
## Final energy consumption



Source: NSI; Draft annual report on NEEAP implementation, March 2019, SEDA.



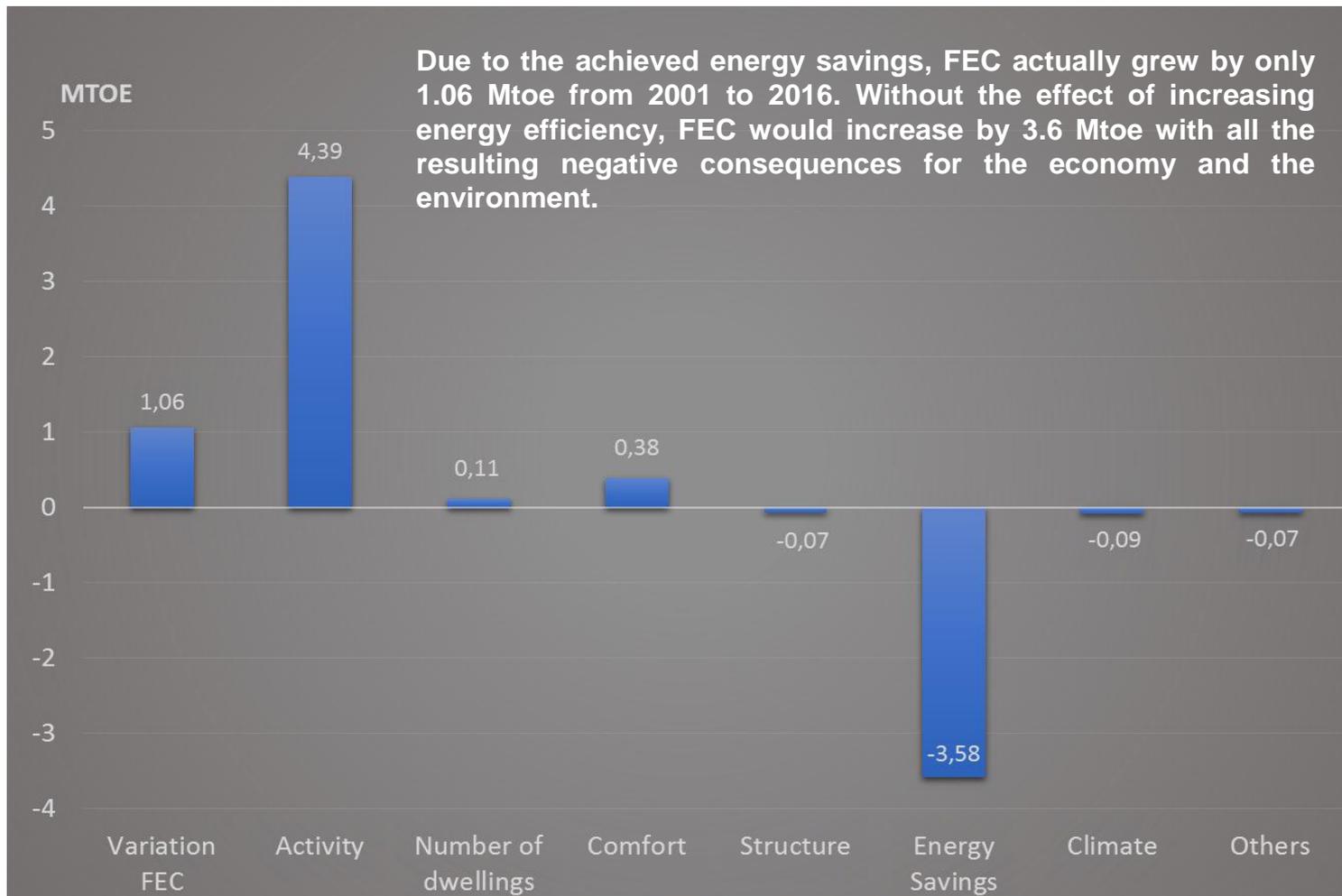
# Final energy consumption of the main sectors



Source: NSI; Draft annual report on NEEAP implementation, March 2019, SEDA.



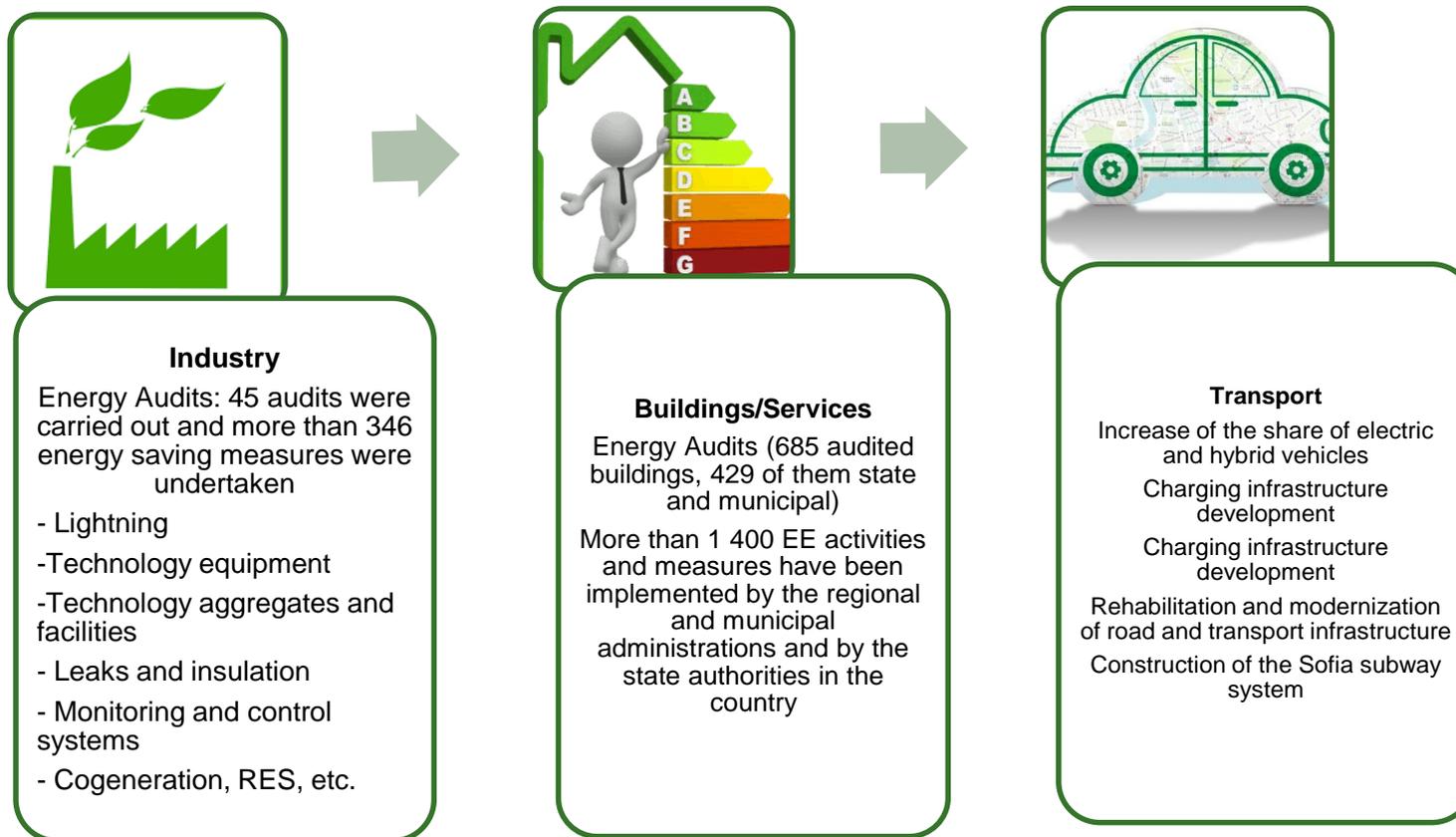
## Variation Final Energy Consumption – Bulgaria (2000-2016)



Source: Odyssee Project (Decomposition tool)



## NEEAP Annual report for 2018 (draft)



- ✓ 600% increase in the number of electric and hybrid cars in the country for the past 5 years
- ✓ In 2018 the start of the production of Bulgarian hybrid and fully electric cars was announced
- ✓ Municipal authorities efforts on local level



## NEEAP Annual report for 2018 (draft) - Financing Energy Efficiency

### Industry



"Innovation and Competitiveness" OP

165 projects in SMEs

104 mln. BGN grant support

### Buildings/Services



„Regions in Growth“ OP - 31 contracts for public buildings and households; 22 mln. BGN grant support

**EE and RES Fund:** 9 loan agreements; 3 mln. BGN.

**National Trust EcoFund**

- Up to 85% grant
- 14 projects EE in buildings,
- scheme for encouraging the use of electric cars – 8 cars for public institutions

### Households



**Energy Efficiency of Multi-Family Residential Buildings National Programme:**

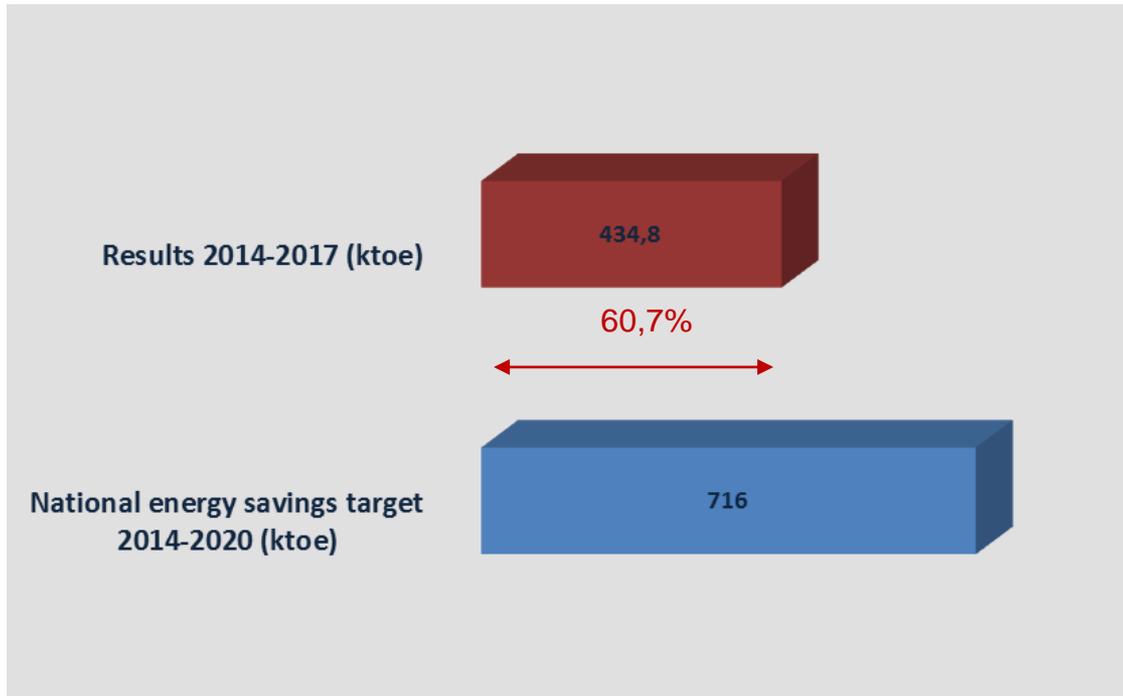
- 100% grant
- 511 renovated residential buildings
- 560 mln. BGN

**Residential Energy Efficiency Credit Line (REECL):**

- 10-15% grant
- 1 031 measures
- 5 mln. BGN



## Progress towards National energy efficiency target - 2017



*Annual report on NEEAP implementation, March 2018, SEDA*



# Energy Efficiency Obligation Scheme and alternative measures

**Introduced 2008**

**Updated 2014**

## Obligated energy suppliers:



Electrical energy < 20 GWh/ann.



Heat energy < 20 GWh/ann.



Natural gas < 1 mln. nm<sup>3</sup>/ann.



Liquid fuels < 6,500 tones /ann.  
 (fuels for transport excluded)



Solid fuels < 13,500 tones /ann.

✓ Mixed approach – Alternative measures introduced 2016 as a supplemented approach to the suppliers obligation

✓ Total amount of savings – 1 942 ktoe cumulative savings 2014-2020

**2017 – 112 obligated companies**

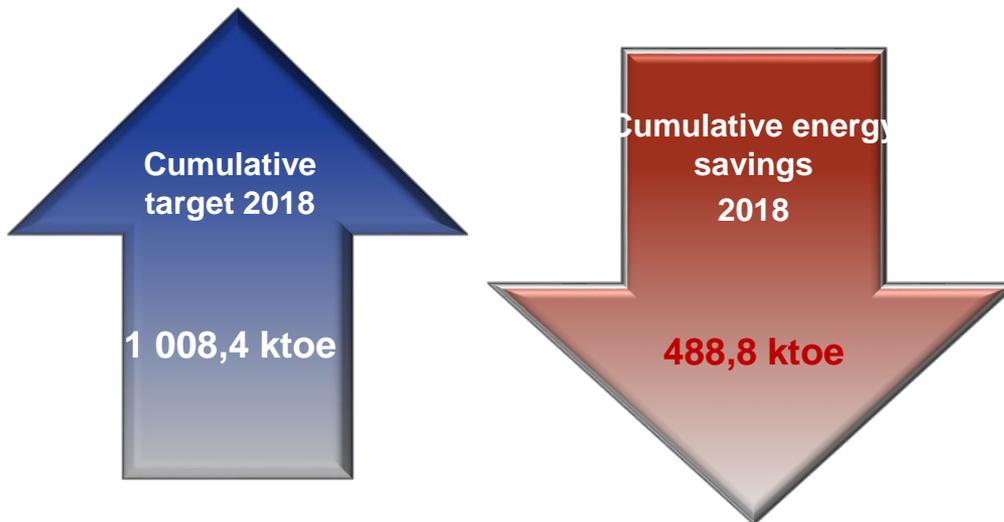
**2018 – 89 obligated companies**

**2019 – 96 obligated companies**



## Progress towards Energy Efficiency Obligation Scheme in 2018 (draft results)

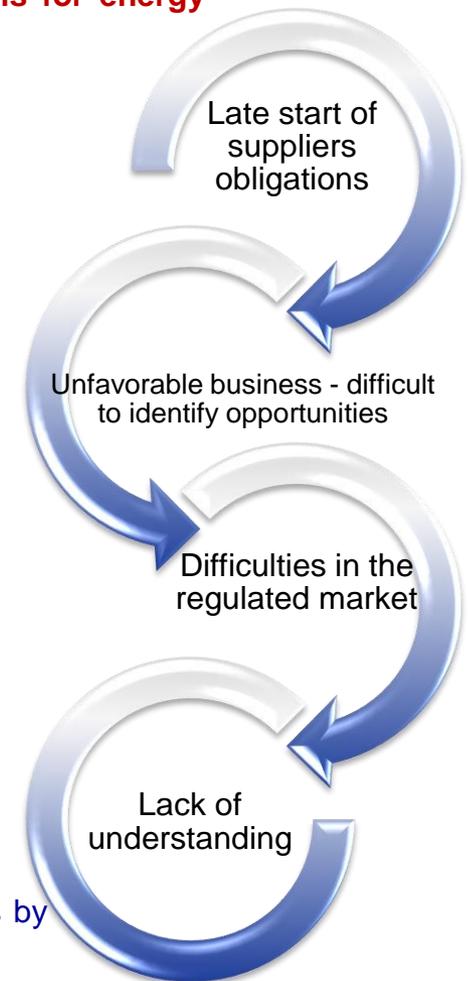
Deeper involvement of the obligated parties - one of the biggest potentials for energy efficiency improvement in all economic sectors.



Source: Draft Annual report on NEEAP implementation, March 2019, SEDA.

### Some recommended steps:

- Incentives / compensation in connection with the expansion of energy suppliers' activities by introducing appropriate financial mechanisms
- Identifying opportunities to increase the share of use of alternative measures in the EEOS.
- Facilitated procedures for demonstrating energy savings - "deemed energy savings"



## Successful measures - Industry

### 1. Mandatory energy efficiency management in enterprises and industrial systems

Annual reporting to SEDA (deadline 1 March, template for reporting);

Bottom-up assessment by summarizing and analyzing the information received by 1 March on the measures implemented by the owners of enterprises and industrial systems.

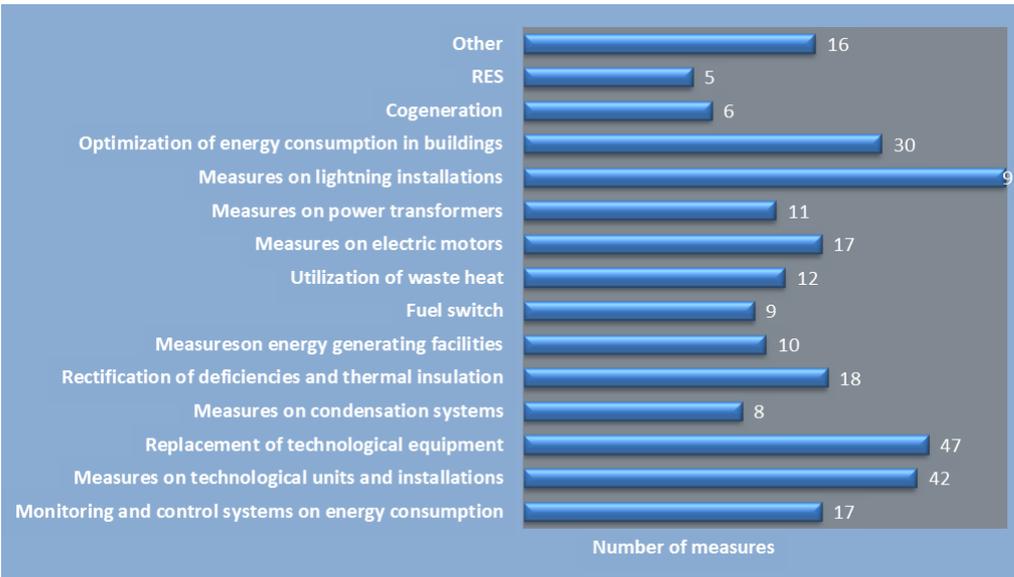
### 2. Operational Program “Innovation and Competitiveness” Results up to 31.12.2018

Energy Efficiency for SMEs

- 448 projects
- 517 mln. BGN (329 mln. BGN grant)
- 550 GWh energy savings

Enhancement of Energy Efficiency in Large Enterprises

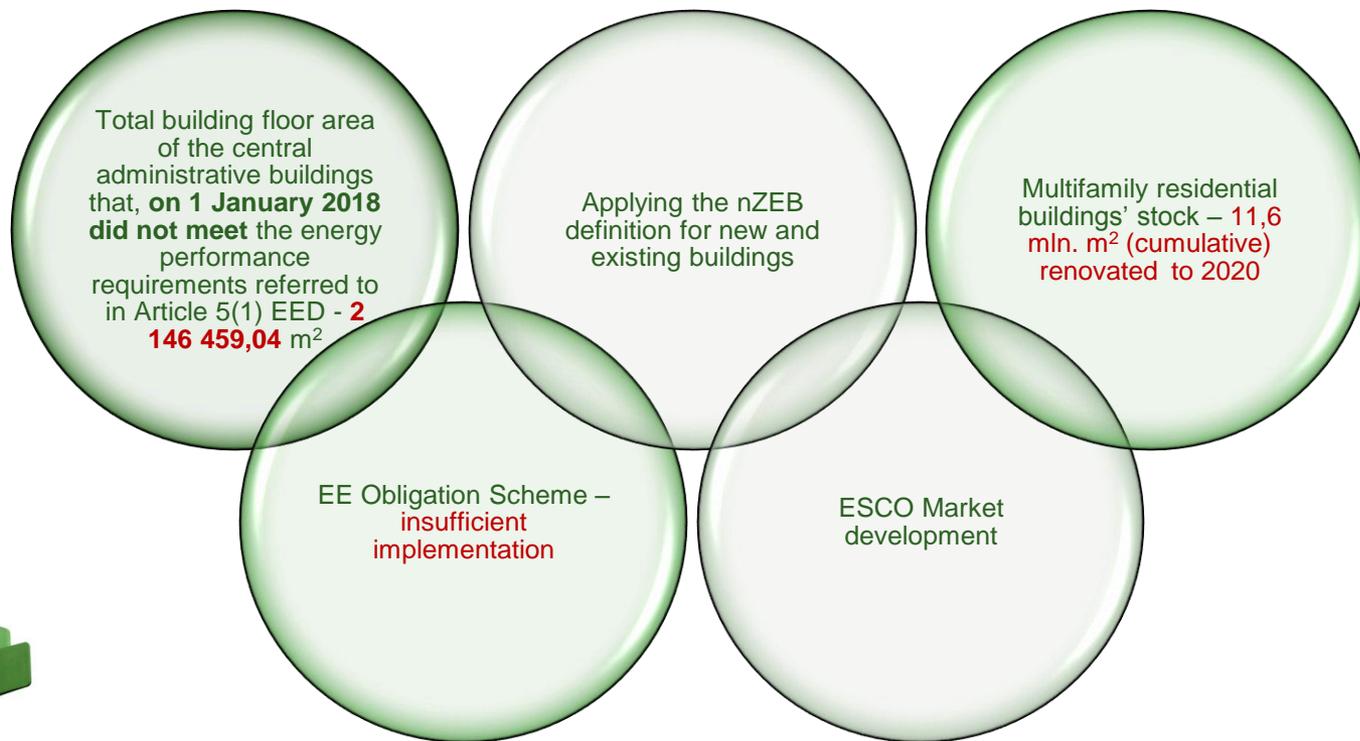
- 68 projects
- 253 mln. BGN (123 mln. BGN grant)
- 554 GWh (estimated savings)



**Energy savings 2018 – 459,6 GWh**



## Energy Efficiency potential





**Thank you!**

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