

Energy Efficiency Policy of the Republic of Serbia and its implementation

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Energy Community Treaty – Key driver for EE policy

2006 - Republic of Serbia ratified the Treaty establishing the Energy Community - takes over obligations

Contracting parties:

- **European Commission** (EU)

and

- Albania,

- Bosnia and Herzegovina,

- Croatia,

- Former Yugoslav Republic of Macedonia,

- **Serbia,**

- UNMIK,

- Montenegro

...

- Moldova and Ukraine





Regulatory Framework – ECT requirements

- Directive **2006/32/EC** on Energy Efficiency in Final Energy Consumption and Energy Services

- Directive **2010/30/EU** on the Labeling of Energy and other Resources for Products that Affect Energy Consumption
 - Related Delegated Regulations

- Directive **2010/31/EU** on the Energy Performance of Buildings

- DIRECTIVE **2012/27/EU** on energy efficiency, amending Directives 2009/125/EC and 2010/30/EU and repealing Directives 2004/8/EC and 2006/32/EC

- Law on the efficient use of energy ("RS Official Gazette" 25/2013)
 - Secondary legislation

- Law on Construction and Planning ("RS Official Gazette" no. 72/09, 81/09 – correction, 64/10-US and 24/11)
- Law on the efficient use of energy ("RS Official Gazette" 25/2013) – inspection of HVAC
 - Secondary legislation

- Further amendments of the existing regulation – October 2017






Regulatory Framework - Law on construction and planning

- **Law on Construction and Planning** ("RS Official Gazette" no. 72/09, 81/09 – correction, 64/10-US and 24/11)

2011, 2012 - Rulebook

- **Rulebook on energy efficiency of buildings** ("RS Official Gazette" no. 61/2011)
- **Rulebook on the conditions, content and manner of issuance of certificates of energy performance of buildings** ("RS Official Gazette", no. 69/2012)

2014 - Central Registry of Energy Passports (CREP) – issuing EPC

	ЗГРАДА	<input type="checkbox"/> нова	<input checked="" type="checkbox"/> постојећа
	Категорија зграде	1. Зграда са једним станом 2. Зграда са више станова	
Место, адреса:			
Катастарска парцела:			
Власник/инвеститор/правни заступник:			
Извођач:			
Година изградње:			
Година реконструкције/енергетске санације:			
Нето површина A_N [m ²]:			
Енергетски пасош за стамбене зграде	Прорачун	$Q_{H,nd,nei}$ [%]	$Q_{H,nd}$ [kWh/(m ² a)]
		45	34
	A+	≤ 15	
	A	≤ 25	
	B	≤ 50	B
	C	≤ 100	
	D	≤ 150	
	E	≤ 200	
	F	≤ 250	
	G	> 250	
Подаци о лицу које је издало енергетски пасош			
Овашћена организација:			
Потпис овлашћеног лица и печат организације:			
			М.П.
(потпис)			
Одговорни инжењер:			
Потпис и печат одговорног инжењера ЕЕ :			
			М.П.
(потпис)			
Број пасоша:			
Датум издавања/рок важења:			





Regulatory Framework - Law on Efficient Use of Energy

- **NEEAP**
 - Preparation and targets settings/Monitoring requirements/ **MVP**
- **Energy management system (public and big consumers)**
- **Energy audits (obligatory for EMS designated organizations)**
- **EE requirements for products that significantly affect energy consumption**
 - Energy Labeling
 - Eco-design requirements
- **Minimum EE requirements in generation, transmission and distribution of electricity and thermal energy and natural gas**
- **measurement and consumption based billing**
- **control of boilers, heating and air-conditioning systems**
- **Incentives/financing**
 - Budgetary Fund for Energy Efficiency
 - ESCO model contracts
 - Energy efficiency as a criteria in public procurement
- **Programmes for transport enhancement - cities with more than 20,000 inhabitants**

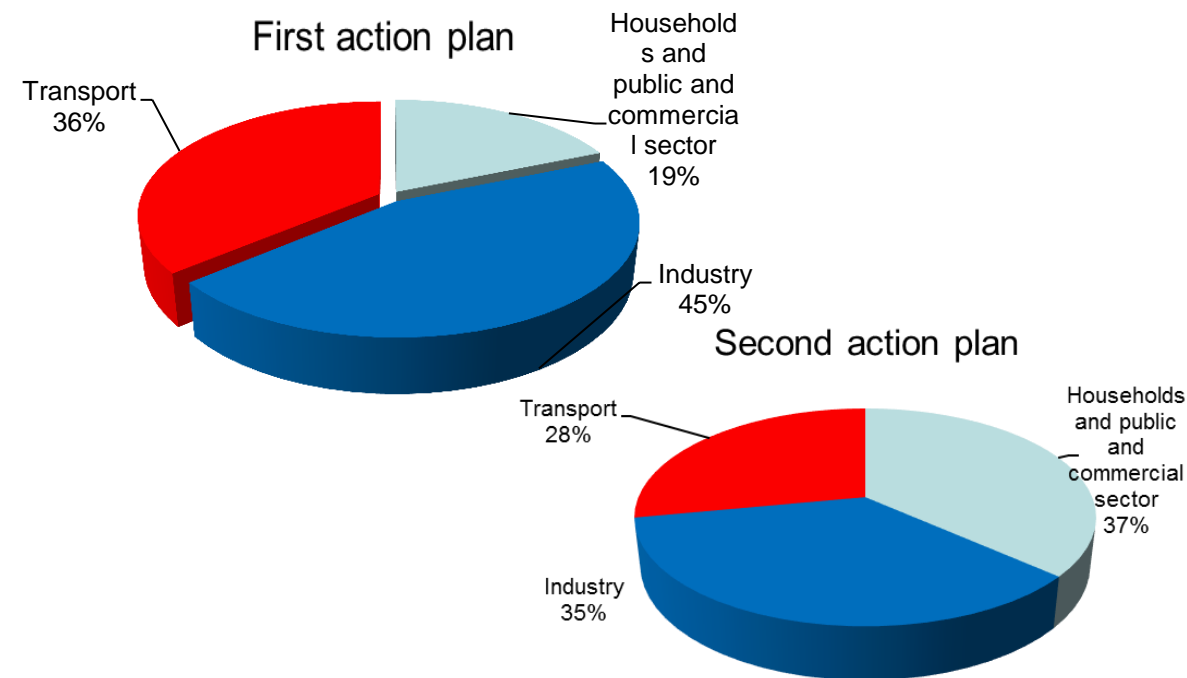




NEEAPs of Republic of Serbia

Indicative target:

- First NEEAP 2010-2012: **1.5%** of the final energy consumption in 2008 (0.1254 Mtoe)
- Second NEEAP 2013-2015: **3.5%** of the final energy consumption in 2008 (0.2952 Mtoe)
- Overall target by 2018 **ESD**: at least **9%** of final energy consumption in the 2008 (0.7524)
- Overall target by 2020 **EED**: **to be determined**



Energy Community Ministerial Council Decision 2009/05/MC-Enc of 18 December 2009

Directive 2006/32/EC of the European Parliament and of the Council on energy end-use efficiency and energy services

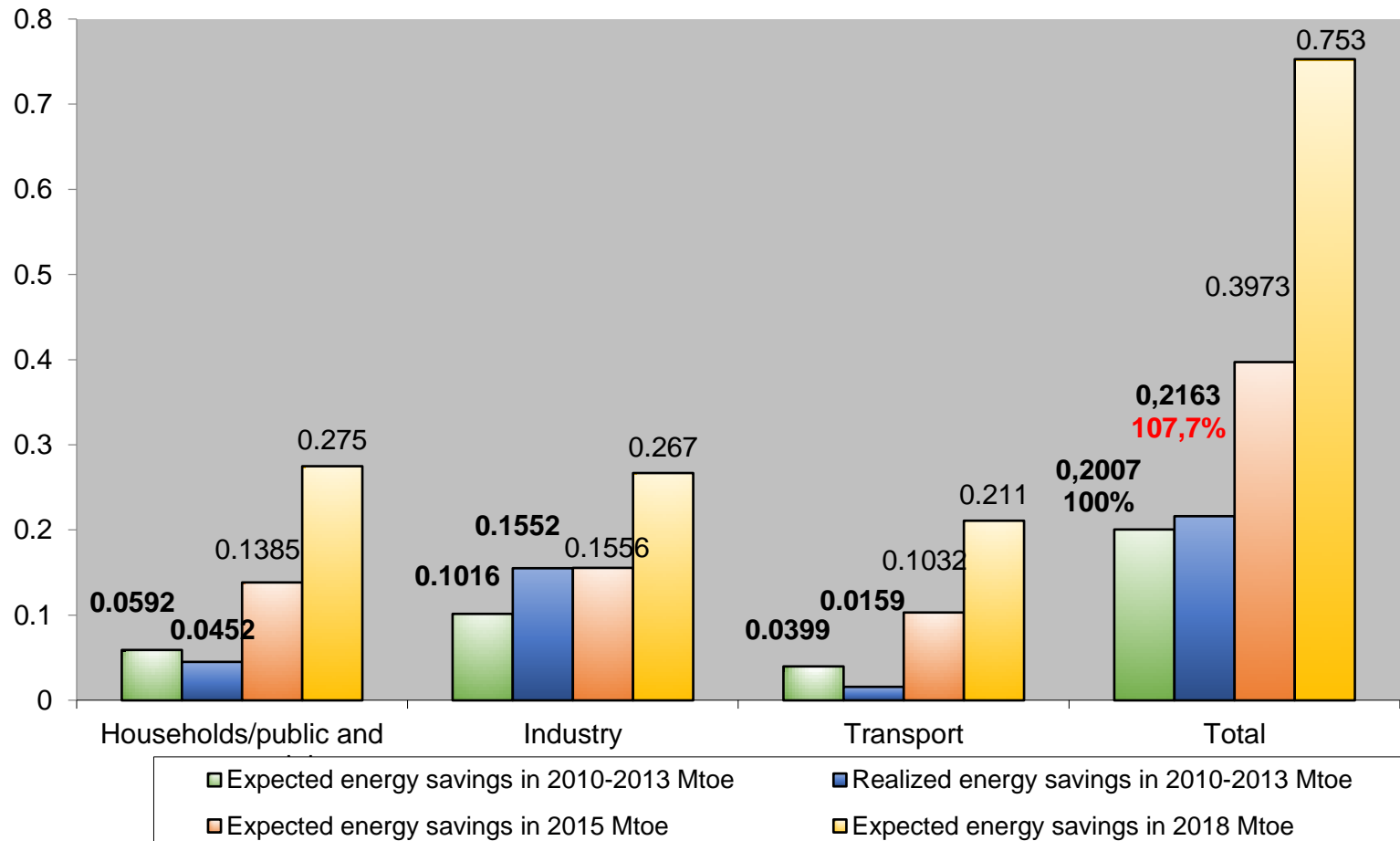
1st NEEAP 2010 to 2012
Adopted 29.07.2010

2nd NEEAP 2013 to 2015
Adopted October 2013

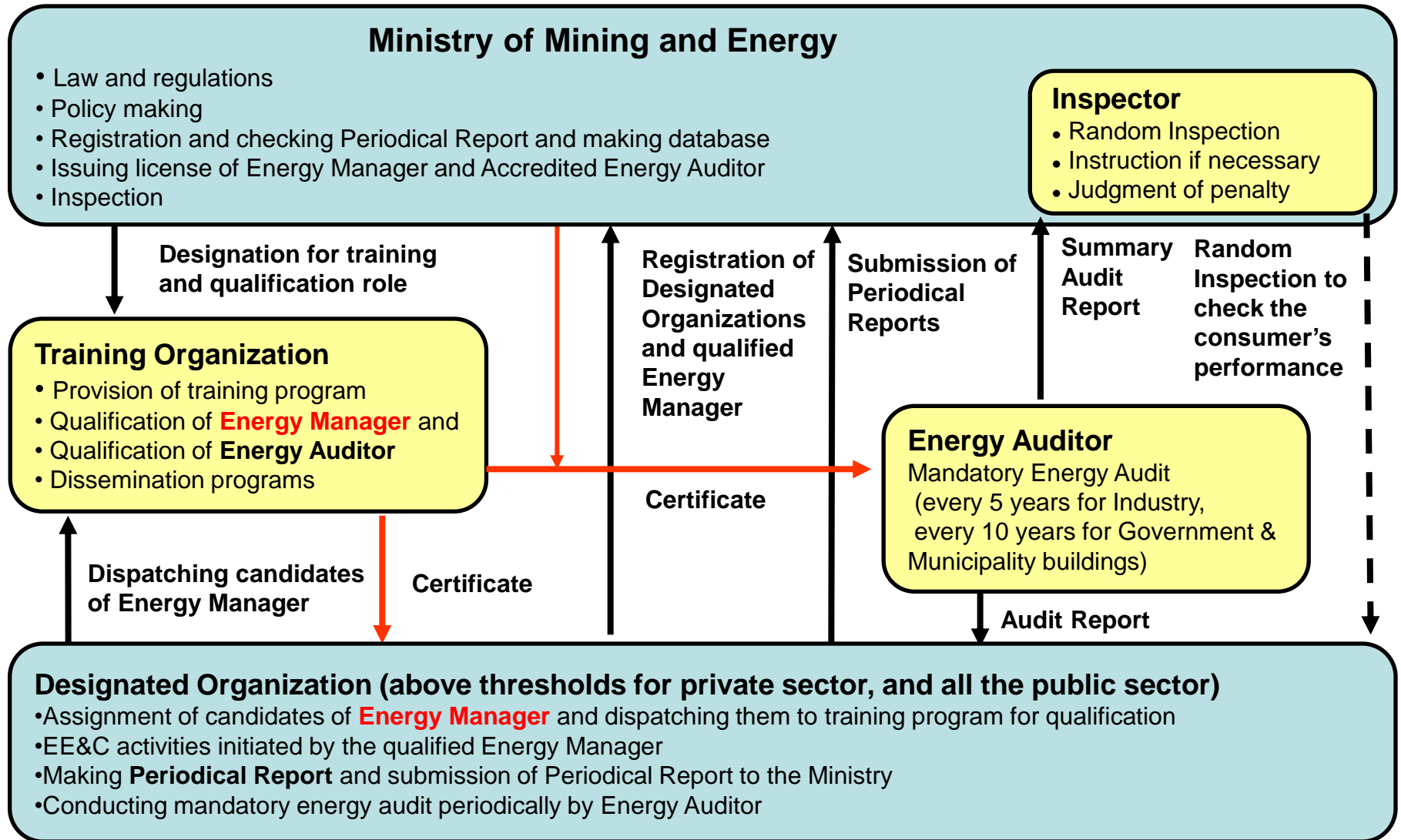
Energy Community Ministerial Council Decision D/2015/08/MC-EnC – 16 October 2015



Achieved /expected energy savings 2010- 2013/2015/2018201



LEUE– Energy Management System – based on Japan experience



- **Budgetary fund for improvement of energy efficiency**

- Annual Programme adopted by Government
- Operated by MoME – budget line
- award procedure: open call
- eligible beneficiaries: legal and physical persons

2014 – 180. 000 RSD (1,5 million EUR)

- Financing EE projects of local governments – 11 contracts (80mill RSD)
- Energy savings of about 0,000181448 Mtoe

2015 - 180. 000 RSD (1,5 million EUR)

- Public call for Municipalities expected by the end of 2015

- **Energy Performance Contracting**

2014 - Model Energy Performance Contract (Obligatory for public sector)

- Public Buildings (minimize expenditures for heating, lighting, ventilation and air-conditioning)
- Street lighting

- **EE minimal criteria for Public Procurement**

- **Possibility for VAT, TAX ... other incentives**



LEUE -Requirements for energy related products

EE LABELING - Directive 2010/30/EU

2014 – Rulebooks -obligatory for:

- household dishwasher
- televisions
- household refrigerating appliances
- air conditioners
- Household electric ovens
- energy labelling of electrical lamps and luminaires

Challenge: monitoring of implementation

ECODESIGN - Directive 2009/125/EC

- Legal background for the adoption set in the Law on Efficient Use of Energy
- Secondary legislation to be developed

Challenge: monitoring of implementation





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- 2001-2017 - IV phases Program “**Rehabilitation of district heating systems in Serbia**“ KfW

PHASE IV ONGOING

Total budget: 123.25 million €

IV phase: 20 district heating companies and a budget of **about 54** million €

Energy savings of about 0,003267412 Mtoe

- 2005-2012 - 2 programs „**Serbia Energy Efficiency Project**“ WB
FINISHED

Rehabilitation and energy-related reconstruction of more than 120 schools, 12 health institutions, among which two big Clinical Centres, in Nis and Belgrade. After the rehabilitation/reconstruction the energy consumption in these facilities is 40% lower.

Energy savings of about 0,007730 Mtoe

Total budget: 55 million \$ USA

- 2015 -2018 „**Energy efficiency in Public Buildings**“ KfW, 30 - 40 **schools in two phases**

ONGOING

Total budget: 15 million €,

30 - 40 schools



- **IPA** “Preparation of second Energy Efficiency Action Plan and Development of Energy Indicators” (changed to development of NEEAP 3)
- **JICA** “The project for Settlement and Enhancement of Energy Management System in Energy Consumption Sectors in the Republic of Serbia”
- **GEF** “Removing Barriers to Promote and Support Energy Management Systems in Municipalities throughout Serbia”
- **EBRD**: “Regional Energy Efficiency Programme” (investments + policy dialog)
- **Norway** “Assistance for implementation of Energy Community Treaty requirements regarding implementation of EU Acquis on energy efficiency“
- **UNDP** “Database for Energy Management in the Municipalities”
- **GIZ ORF EE** “Integrated Monitoring and Verification Platform (MVP) for Energy Efficiency Action Platform (MVP) for Energy Efficiency Action Plans Implementation Plans Implementation”
- **GIZ** “Advisory services for EE in buildings”

Thank you for your attention!

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