



**REPUBLIC OF SERBIA**  
Ministry of Energy, Development and Environmental Protection


**Increasing stability and security: Improving the environmental footprint of energy-related activities in the OSCE region**

**21<sup>st</sup> OSCE ECONOMIC AND ENVIRONMENTAL FORUM**

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**REPUBLIC OF SERBIA - Basic data**

- Population: 7.1 million
- Area: 88,407 km<sup>2</sup>
- Capital city: Belgrade
- Average net salary (March 2013): 375 EUR
- Industrial production (March 2013 / March 2013): +0.8%
- Unemployment rate (October 2012): 22.4%
- GDP data:



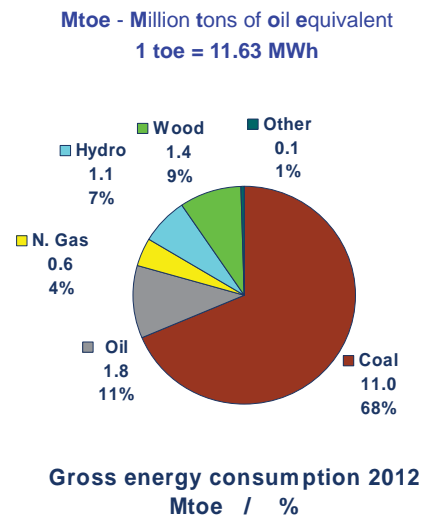
Year	2007	2008	2009	2010	2011
GDP, mil. EUR	28 470	32 668	28 883	29 024	32 993
GDP, p/c, EUR	3 857	4 445	3 945	3 981	4 543

All statistical data is presented excluding territory of Autonomous Province Kosovo and Metohija



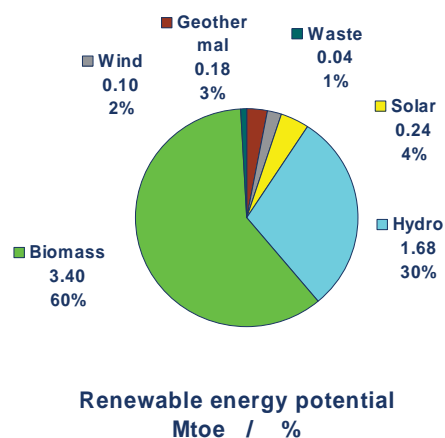
## Energy consumption 2012

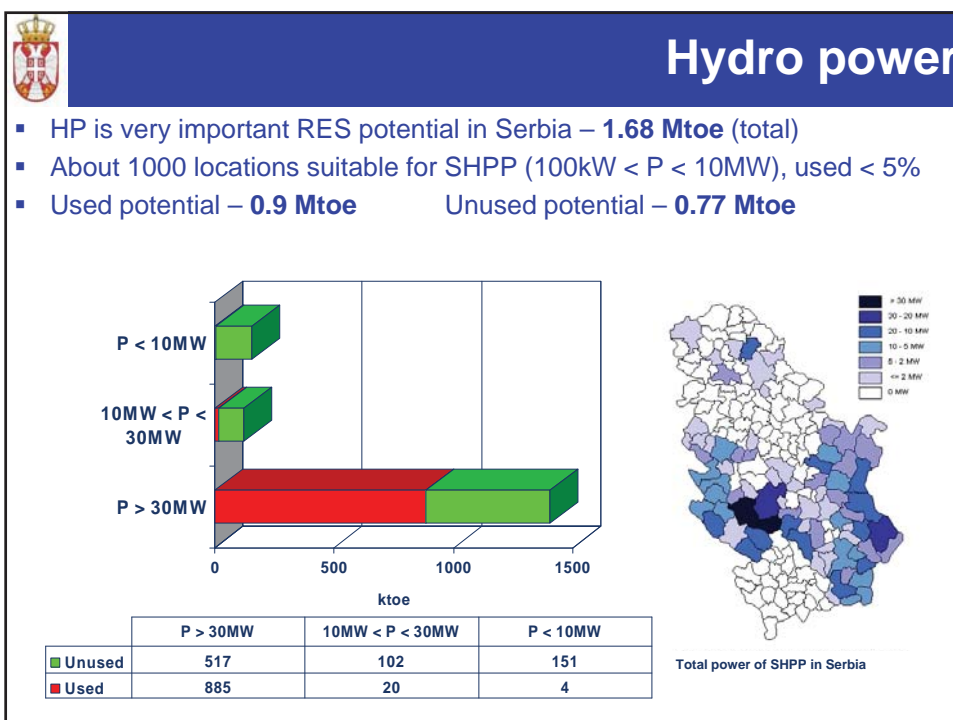
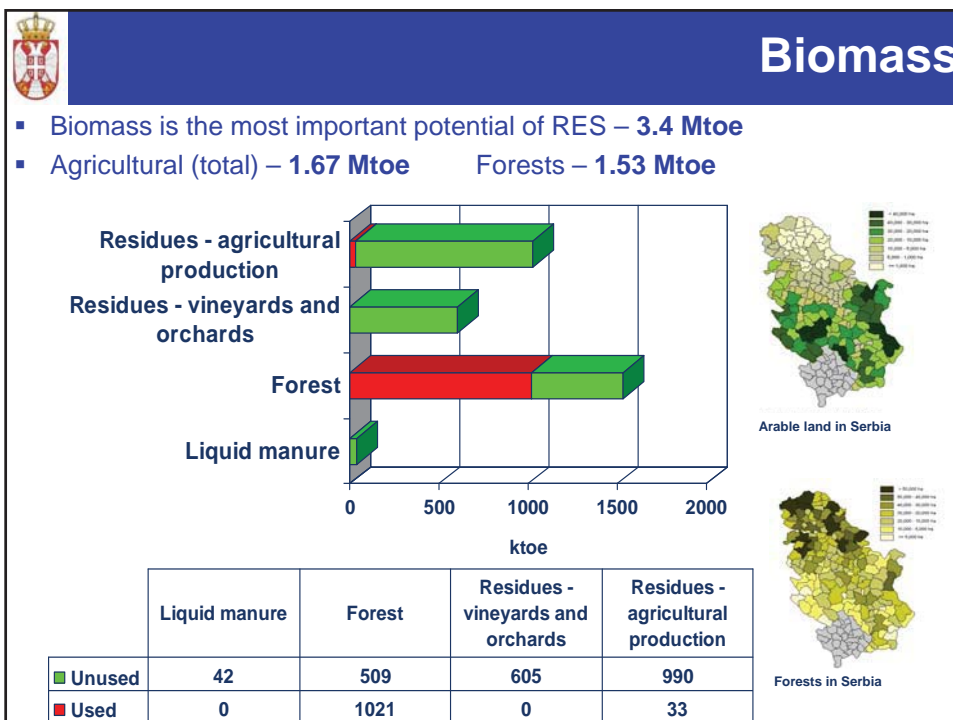
- Total primary energy consumption in Serbia is **16 Mtoe**
- Domestic production **67%**
- Import of energy **33%** (oil and natural gas)
- Final energy consumption is **9.5 Mtoe**
- Total electrical energy consumption/production is **3.2 Mtoe**
- Rate of hydro-PP in total electrical energy production is **34%**



## Renewable energy potential

- Total RES potential is **5.65 Mtoe**
  - Used RES potential is **1.96 Mtoe / 35%**
  - Unused RES potential is **3.69 Mtoe / 65%**
- Share of RES in Gross Final Energy Consumption is **21%**
- Biomass and Hydro potentials are the most important potentials. With **3.4 Mtoe** and **1.68 Mtoe** they share **90%** in total RES potential

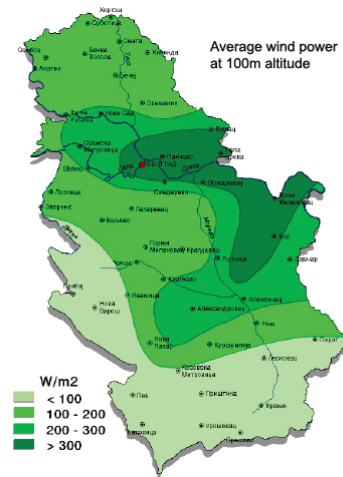






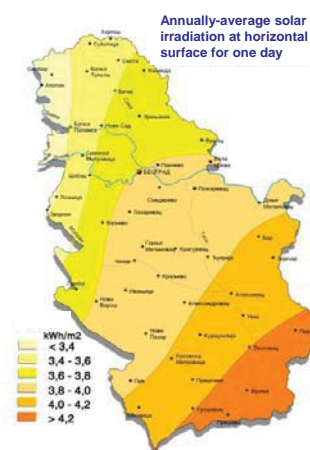
## Wind

- Total potential in Serbia – **0.103 Mtoe**
- Only **0.5MW** is installed - Tutin
- 6 wind farms are in the construction:
  - **7.5 MW** – Nova Vrska Cuka (Zajecar)
  - **9.950 MW** – Nova Vrska Cuka 1
  - **9 MW** – Nova Vrska Cuka 2A
  - **9 MW** – Nova Vrska Cuka 2B
  - **9 MW** – Kula (Kula)
  - **6 MW** – La Picolina (Vrsac)
- There is great interest of investors – about 30 sites are researched
- **500MW** will be supported by the Feed-in Tariff system up to 2020



## Solar

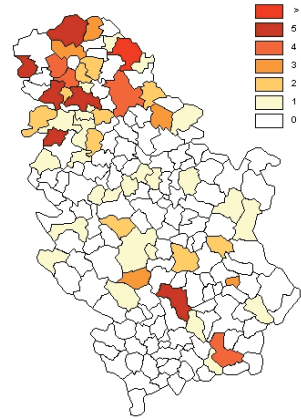
- Annually-average solar irradiation for one day:  
**3.4 kWh/m<sup>2</sup> – 4.2 kWh/m<sup>2</sup>**  
or about **0.1 toe/m<sup>2</sup>** annually
- Total potential in Serbia – **0.24 Mtoe**
  - PV potential – **46 ktoe**
  - Sanitary water heating – **194 ktoe**
- **10 MW** will be supported by the Feed-in Tariff system
- **2.269 MW** is installed
- There is great interest of investors – about 100 requests for PV power plants are detected in 2013
- About **7 MW** of PV is in construction





## Geothermal

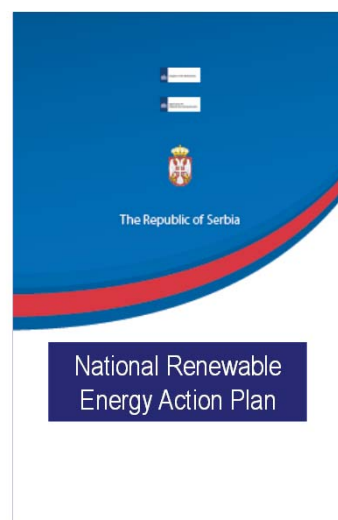
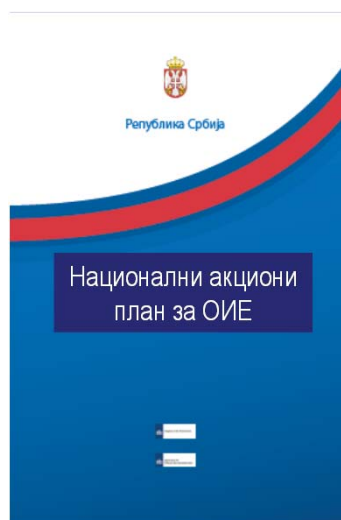
- Potential of existing sources is estimated at **0.18 Mtoe**
  - mainly good researched
  - more than 50 sources with capacity >1MW
  - generally low-temperature sources (30-60°C, rarely beyond 80 °C)
- Still rare use in energy sector, mostly in spas for medical therapies
- Only 2 sites suitable for electricity production



Number of geothermal sources in Serbia



## National Renewable Energy Action Plan





## Overall national target share of RES

A. Share of energy from RES in gross final energy consumption in 2009 (S 2009) (%)	21.2
B. The target for energy from RES in gross final energy consumption in 2020 (S 2020) (%)	27.0
C. Expected total adjusted energy consumption in 2020. (from Table 1, the last cell) (Mtoe)*	9.495
D. Expected amount of energy from RES corresponding to the goal in 2020. (calculated as B x C) (Mtoe)	2.563

\* With implemented energy efficiency measures (EEM)



## Incentives for privileged power producers

- Incentive package for the privileged power producers PPP\*, includes the right to:
  - Acquire temporary status of PPP\* for investors in solar and wind power plants
  - Agreement with the public power supplier for purchase of power for 12 years
  - Privileged price prescribed by the Decree
  - The release of the balance responsibilities
  - Obligation of the Public Supplier to purchase all produced power
  - Annually correction rates in accordance to inflation of Euro
  - After privileged period, obligation of the Public Supplier to purchase all produced power in accordance with actual market condition

\* PPP - Privileged power producer



**THANK YOU FOR ATENTION**

**REPUBLIC OF SERBIA**

**MINISTRY OF ENERGY, DEVELOPMENT AND ENVIRONMENTAL PROTECTION**

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