

Bosnia and Herzegovina Country report presentation

JICA – Energy Policy (B)

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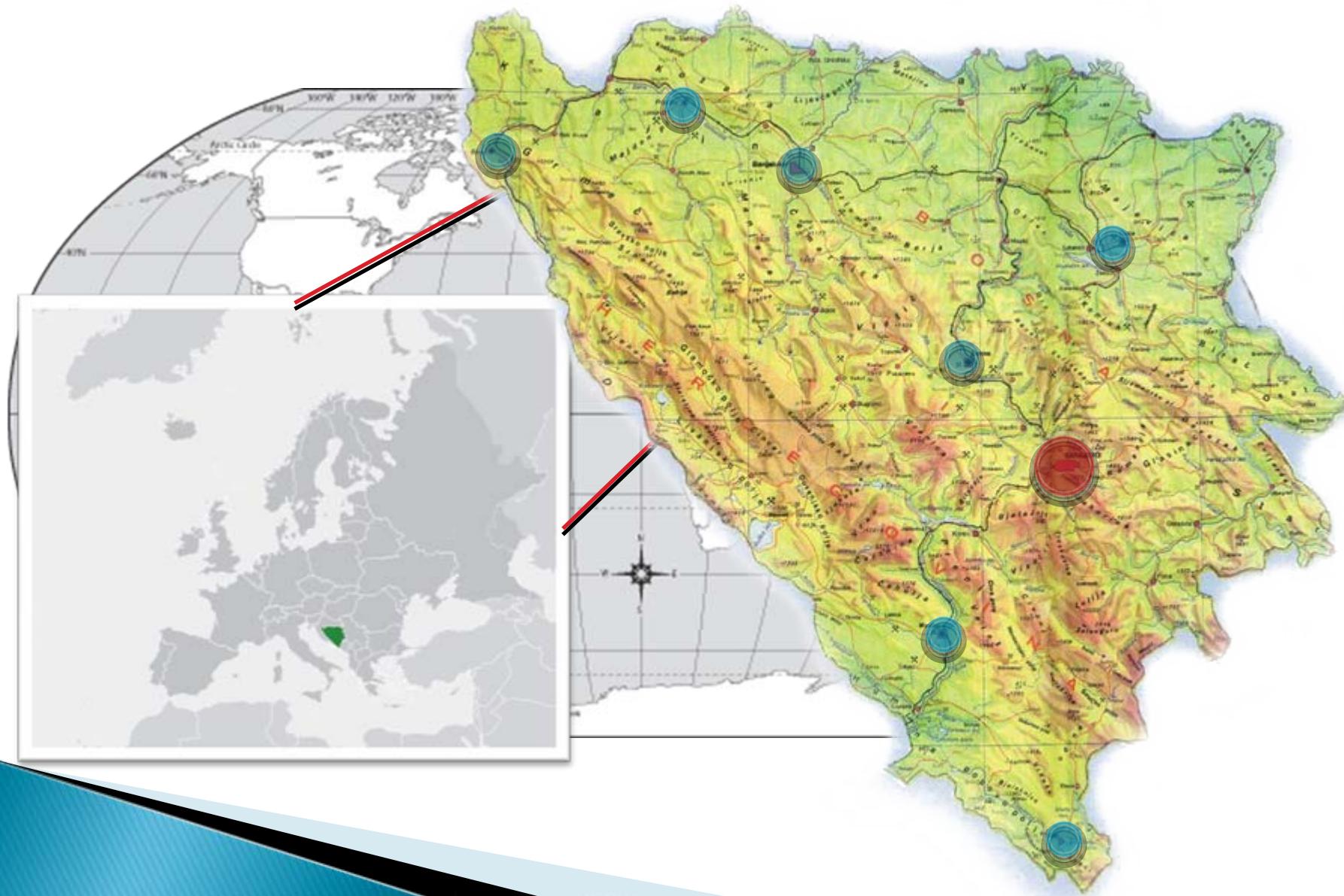
Country Report Tasks

1. General information of each country
2. Current energy policy and measures of each country
3. Past energy demand and supply (statistics) of each country
4. Outlook of energy demand and supply of each country
5. Major difficulties and bottlenecks currently faced in formulating energy policies of each country
6. Subjects you would like to study in the order of priority and the reason

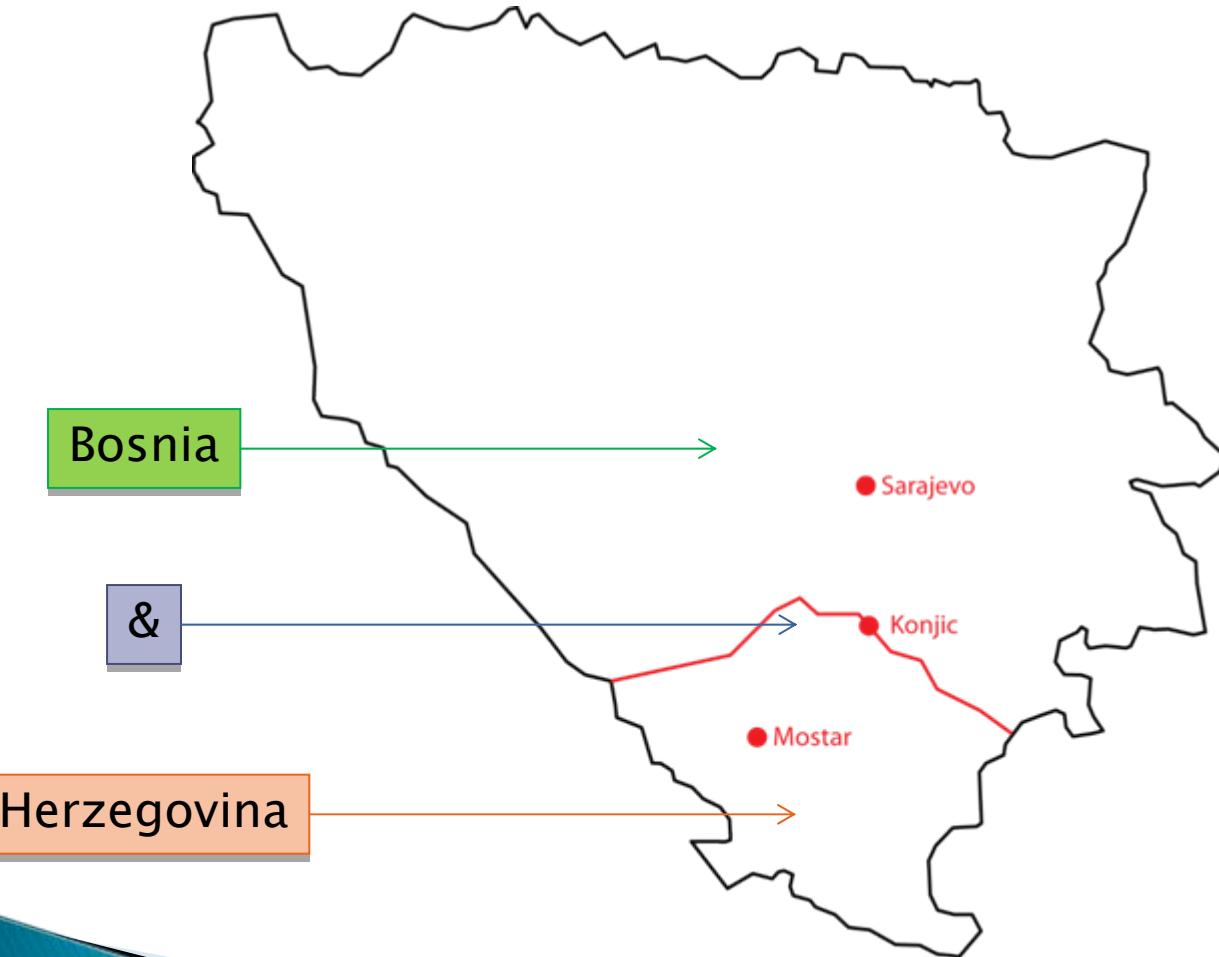
Bosnia and Herzegovina (B&H)

» General information

Location of B&H



Bosnia vs. Herzegovina



Surface

Surface
51,197 km² (127th)
19,741 sq mi



Serbia



Cambodia



Uruguay



Guatemala



El Salvador



Moldova



Laos



Philippines



Peru



Bosnia and Herzegovina



Malaysia



Mongolia

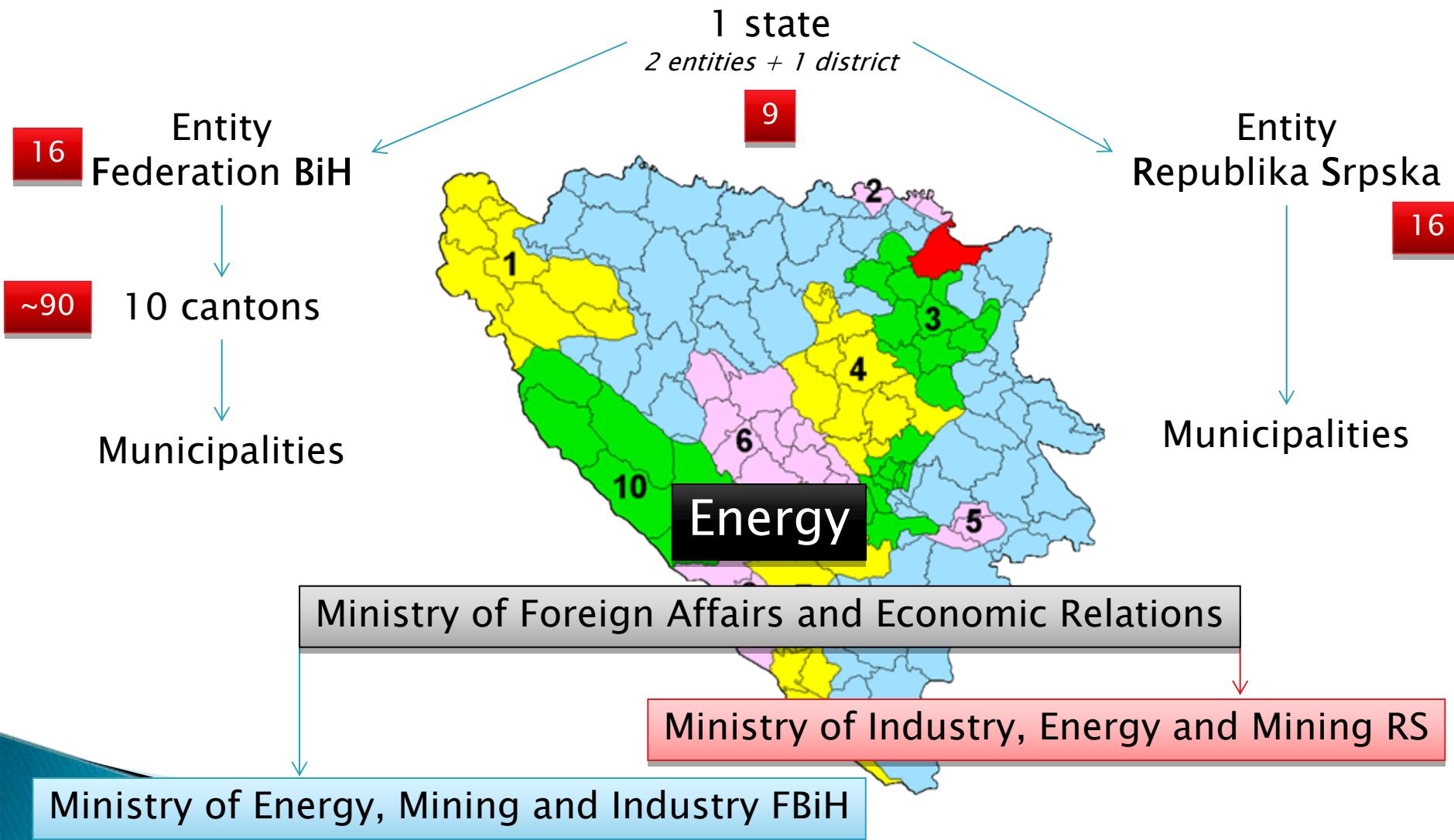


Japan

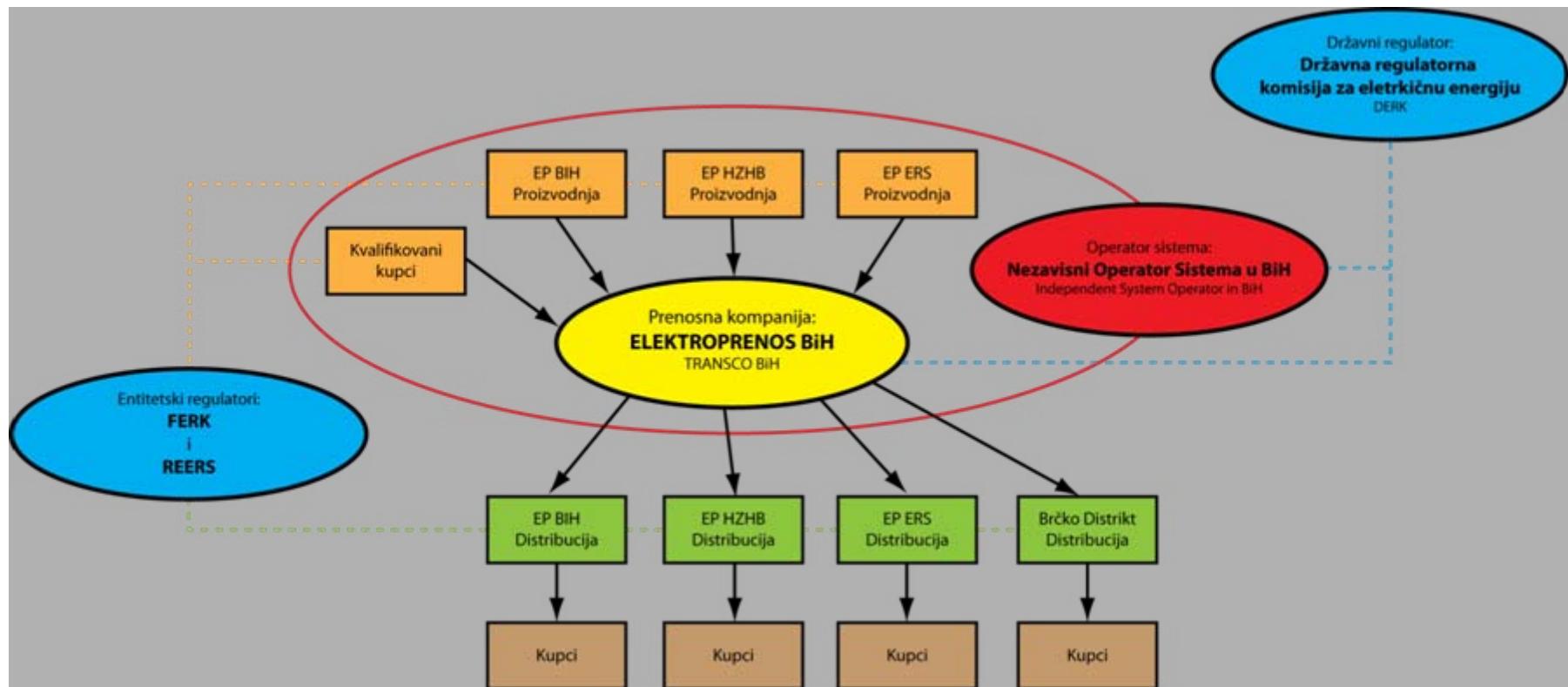
General information

- ▶ Population
 - 1991 census 4,377,033
 - 2011 estimate 3,839,737 (128th)
 - Density 75/km² or 194/sq mi
- ▶ GDP – 2011 est.
 - Total \$17.965 billion
 - Per capita \$4,618
- ▶ Average net salaries ~420€ / ~530\$ / ~43000 JPY
- ▶ Official languages
 - Bosnian, Serbian, Croatian
- ▶ Official alphabets
 - Latin, Cyrillic

Political organization / Energy



Electric Power System Organization



Bosnia and Herzegovina (B&H)

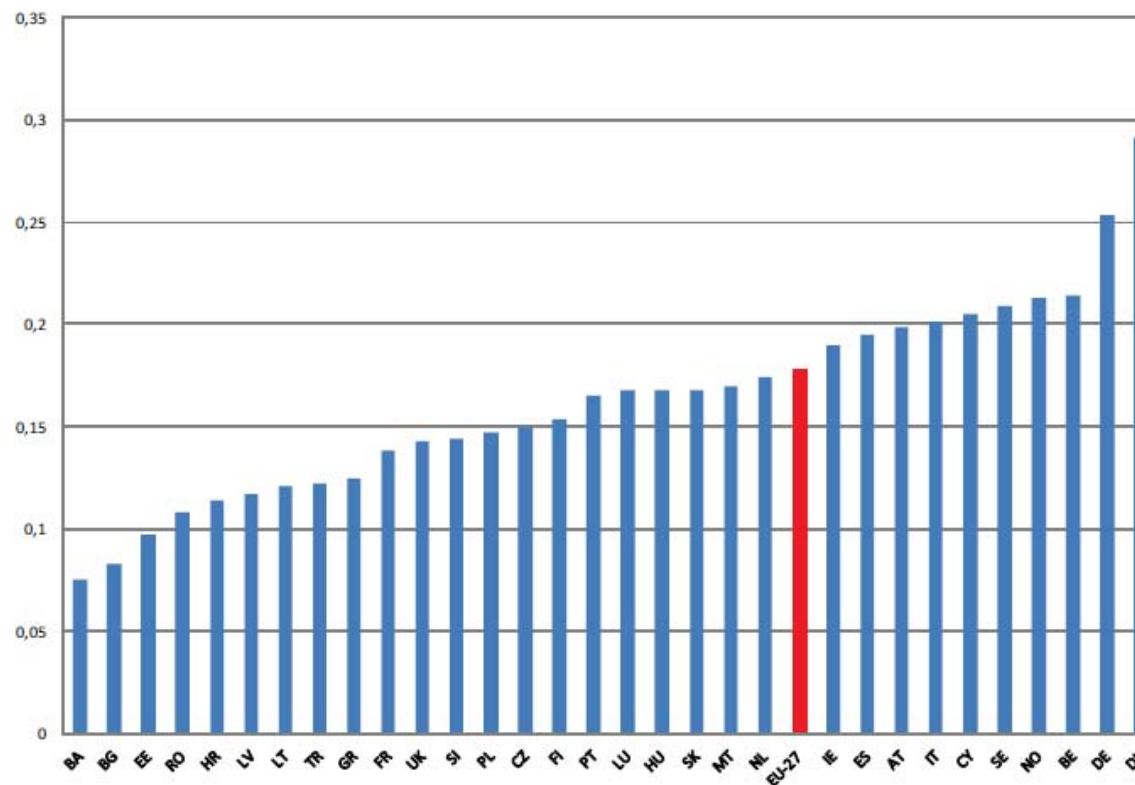
» Current situation in
power sector

Current energy policy and measures

- ▶ National energy efficiency action plan (NEEAP) is not adopted.
- ▶ Renewable targets are not yet adopted.
- ▶ Problem is that state level policies are not being adopted because certain policies or measure already exist on entity level.
- ▶ Incompatible existing entity policies (different section years, terms, etc...)

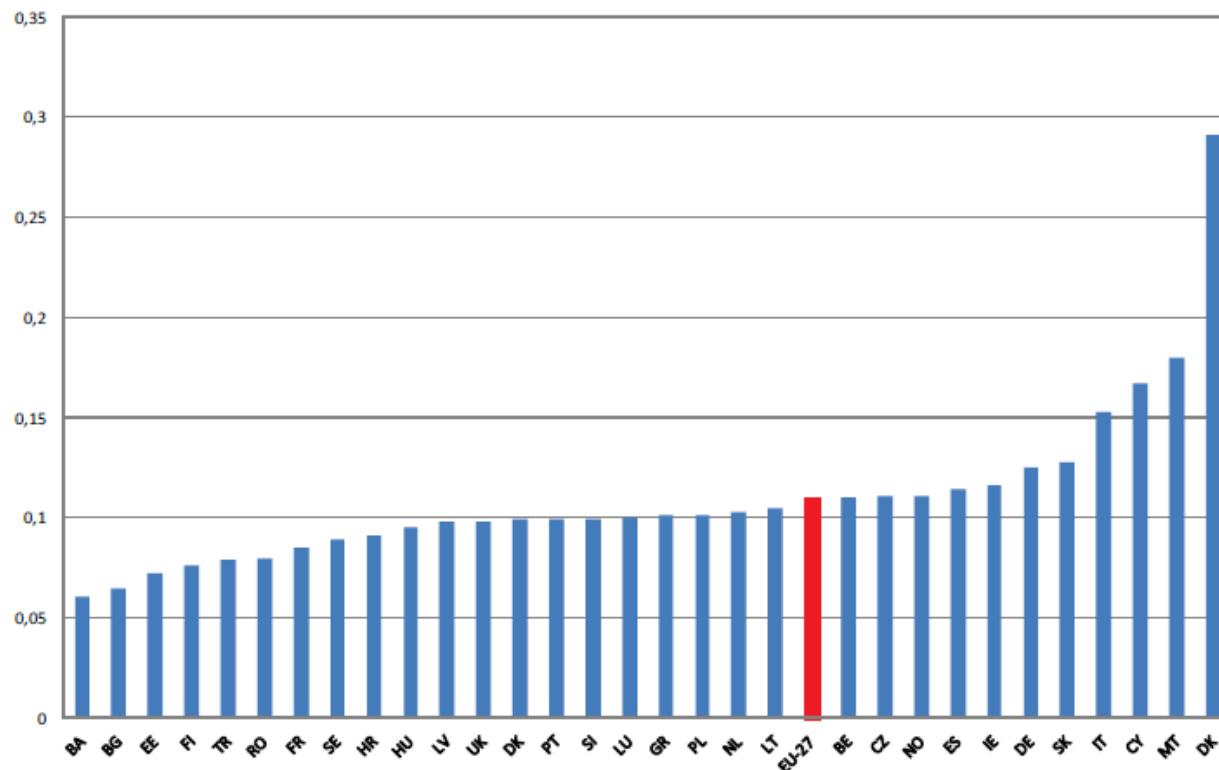
Electricity prices

- ▶ Electricity price for households, EUR/kWh



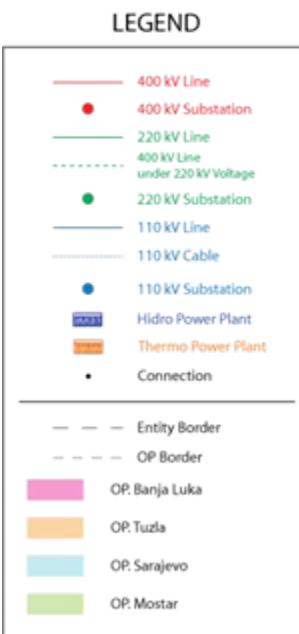
Electricity prices

- ▶ Electricity price for industry, EUR/kWh

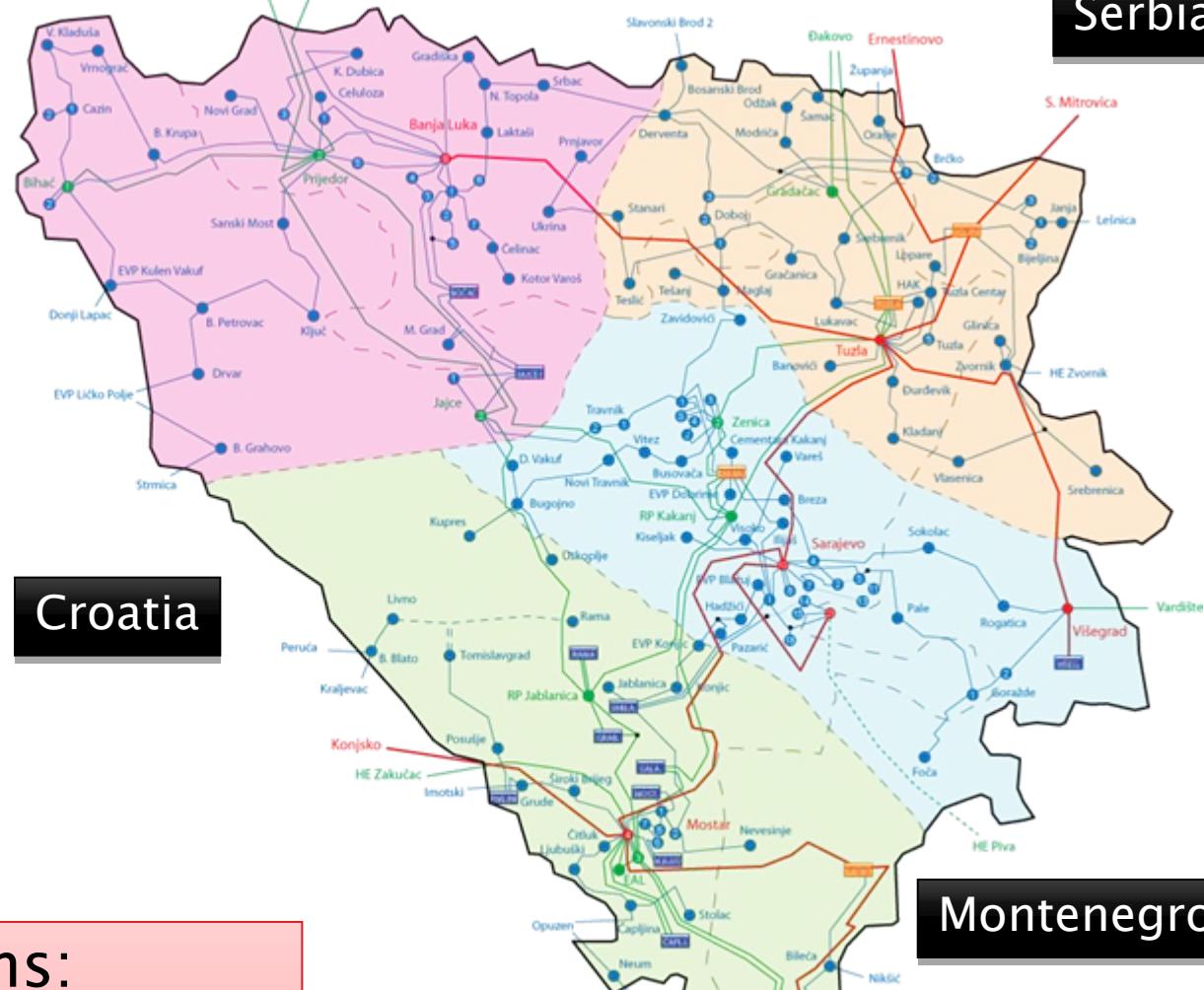


Electricity network

Serbia



Croatia

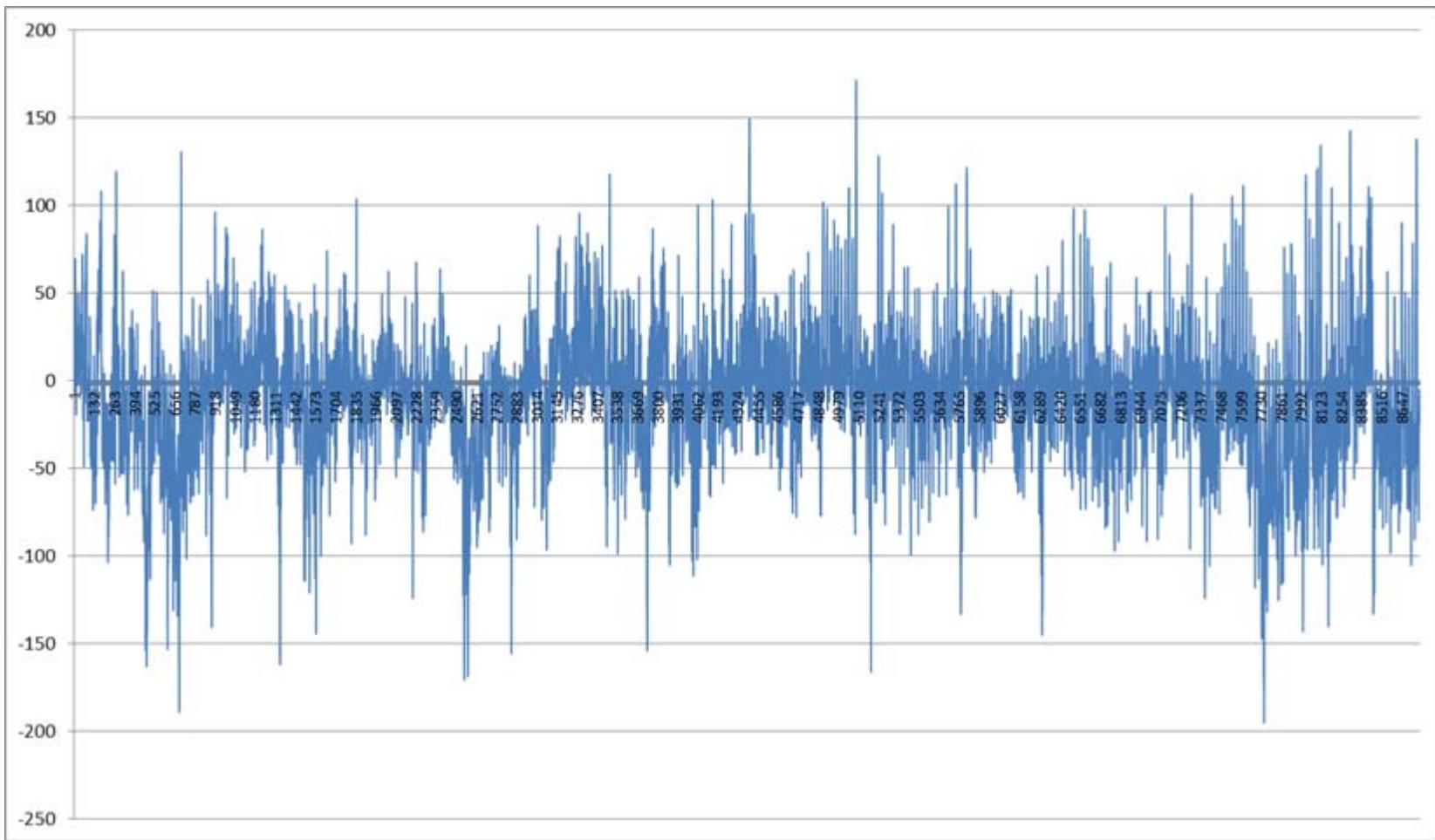


Montenegro

Lines and substations:

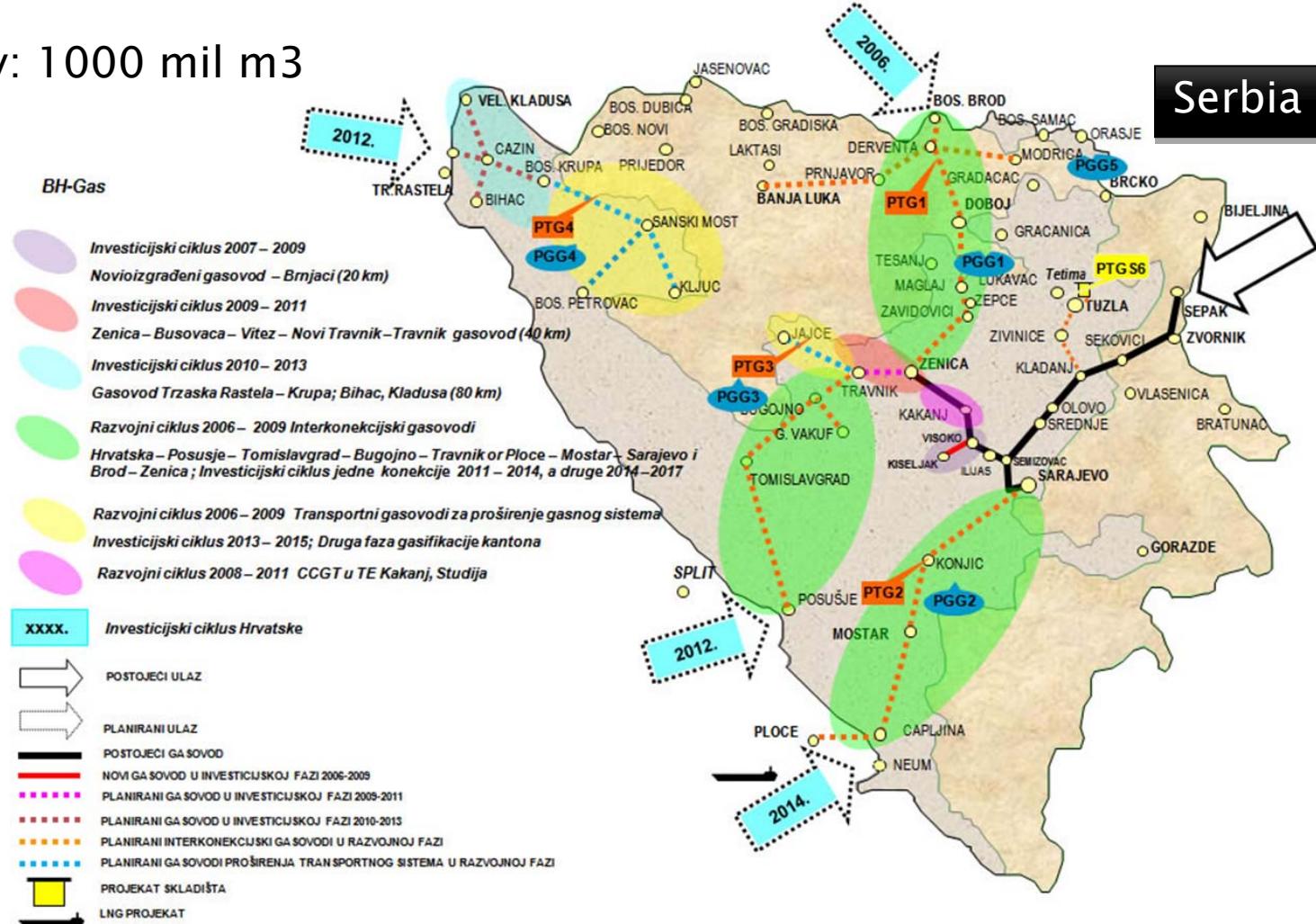
400 kV	864.7 km	9
220 kV	1524.8 km	8
110 kV	3919.3 km	127

Unwanted variations in 2011



Gas network

Pipeline capacity: 1000 mil m³

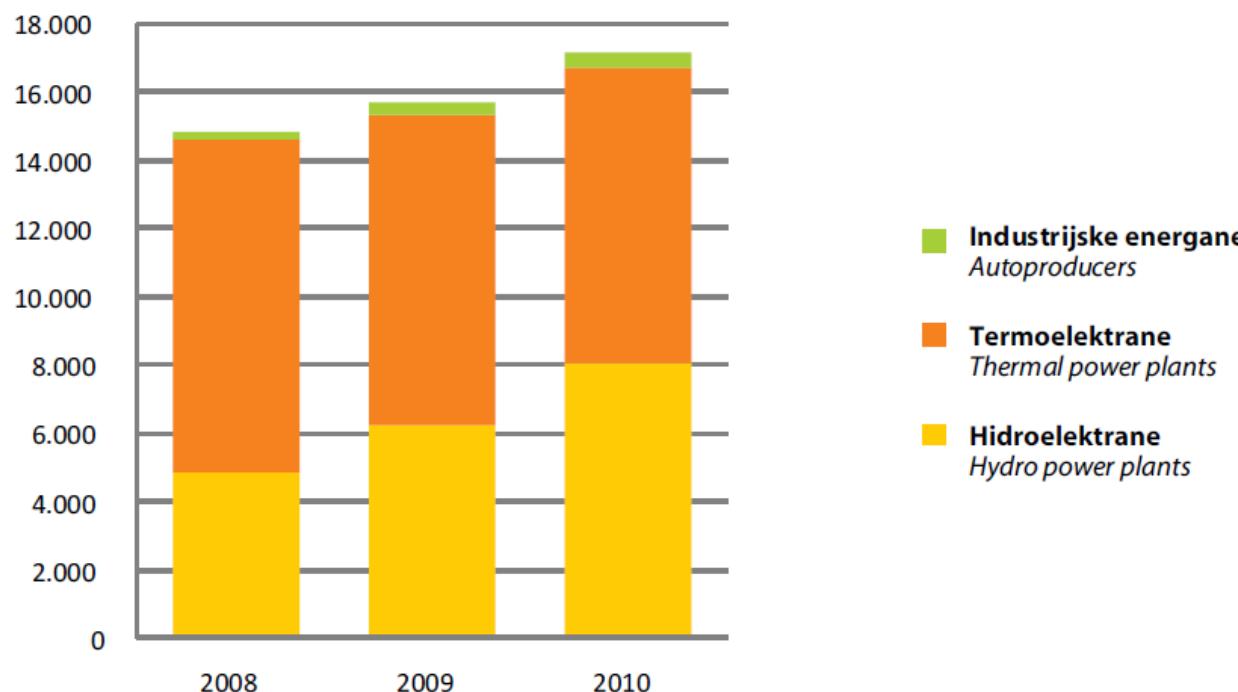


Bosnia and Herzegovina (B&H)

» Past energy supply
and demand

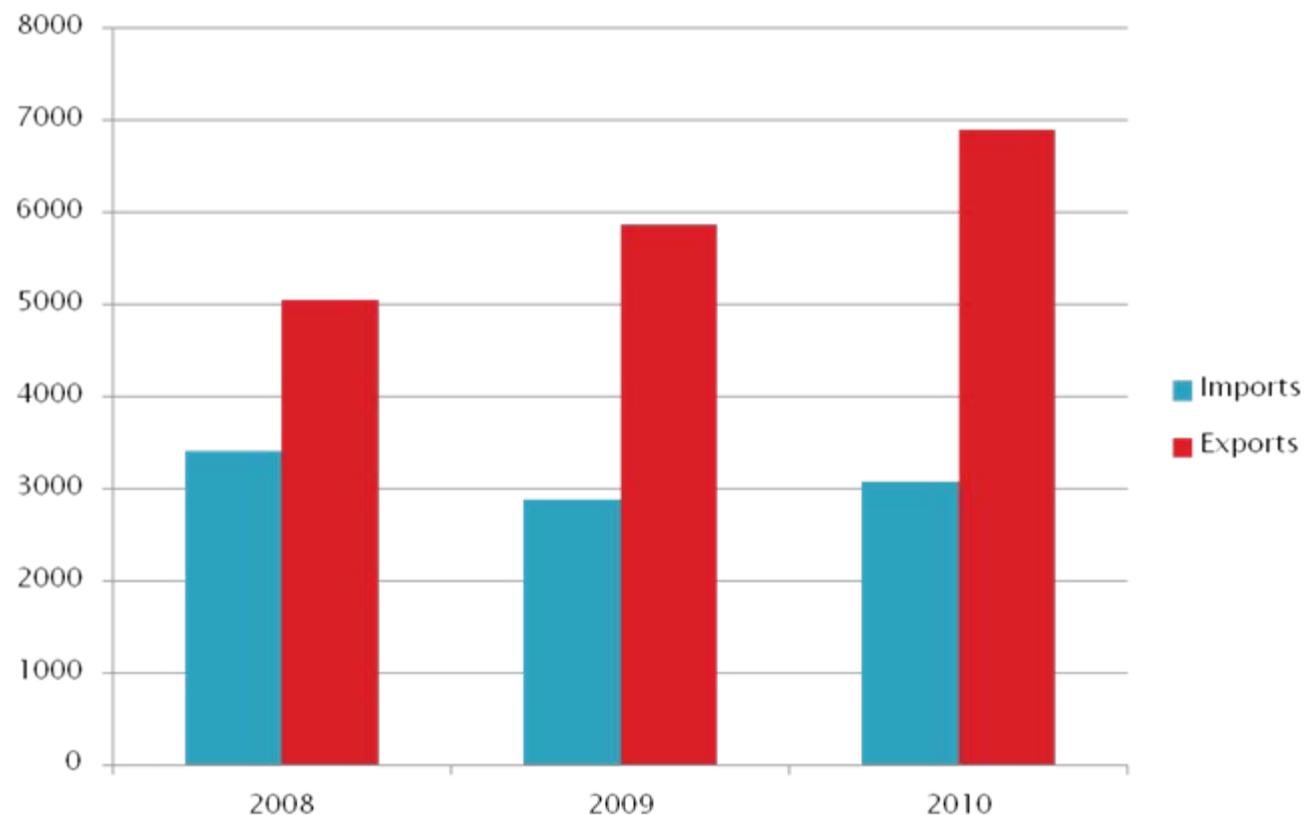
Past energy demand and supply

► Gross electricity production, GWh



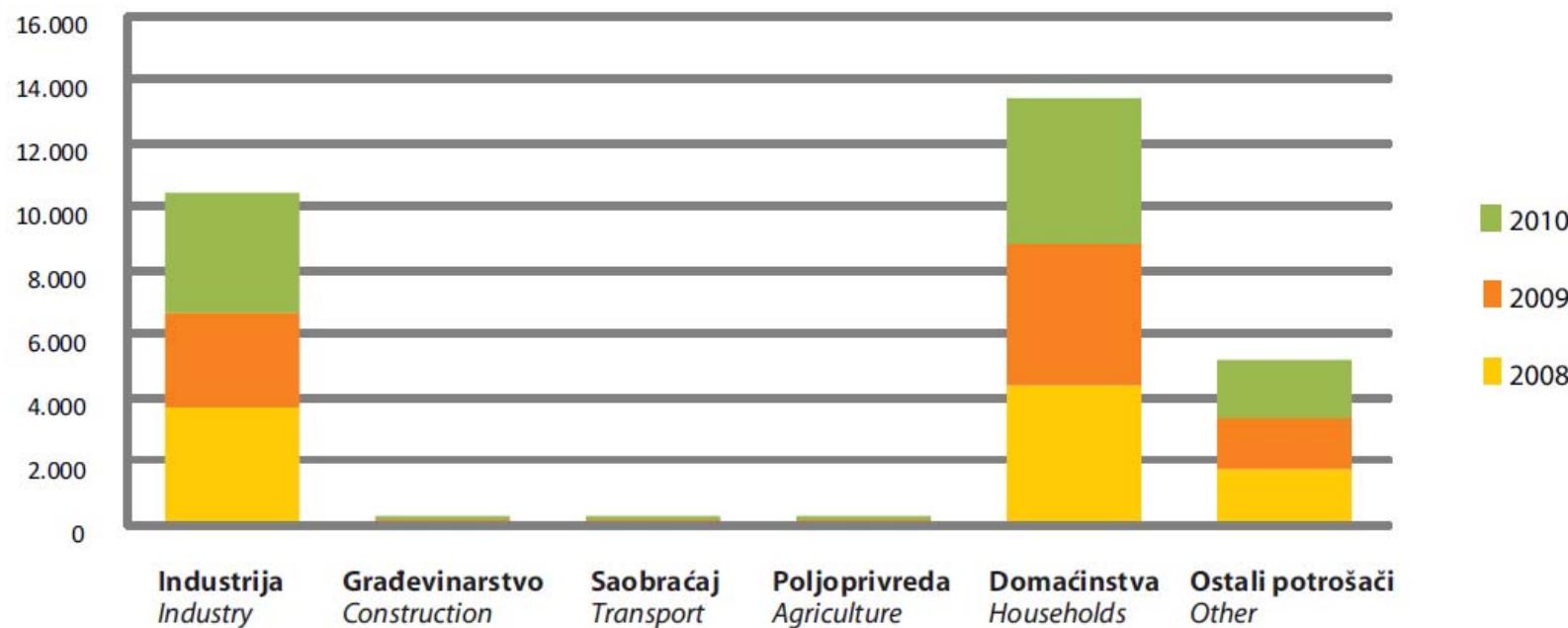
Past energy demand and supply

▶ Imports/exports, GWh



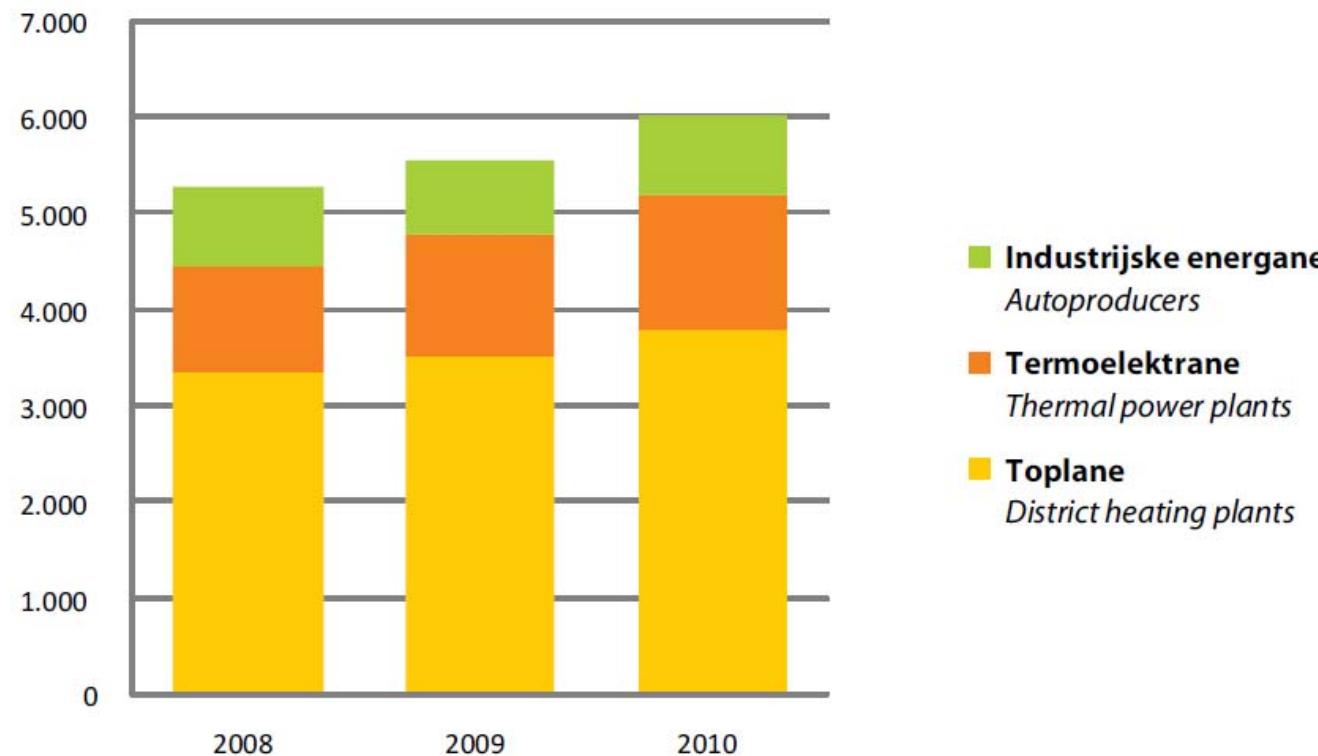
Past energy demand and supply

- ▶ Final electricity consumption, GWh



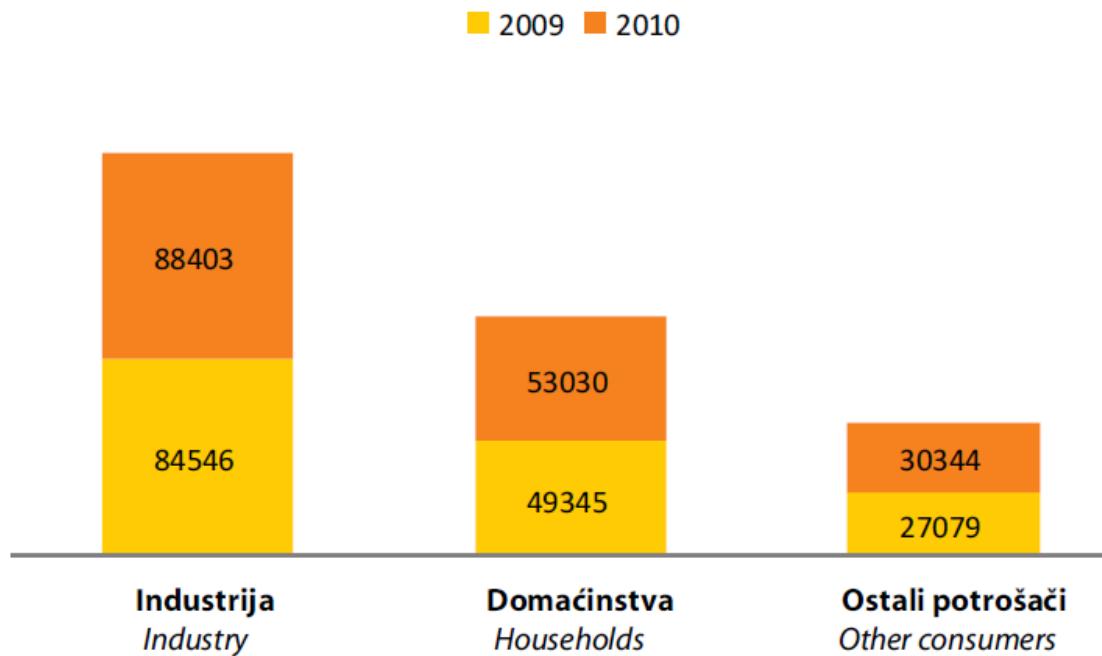
Past energy demand and supply

▶ Transformation output – Heat, TJ



Past energy demand and supply

- ▶ Final natural gas consumption, 1.000 Sm3



No data for oil in Statistics Agency

Bosnia and Herzegovina (B&H)

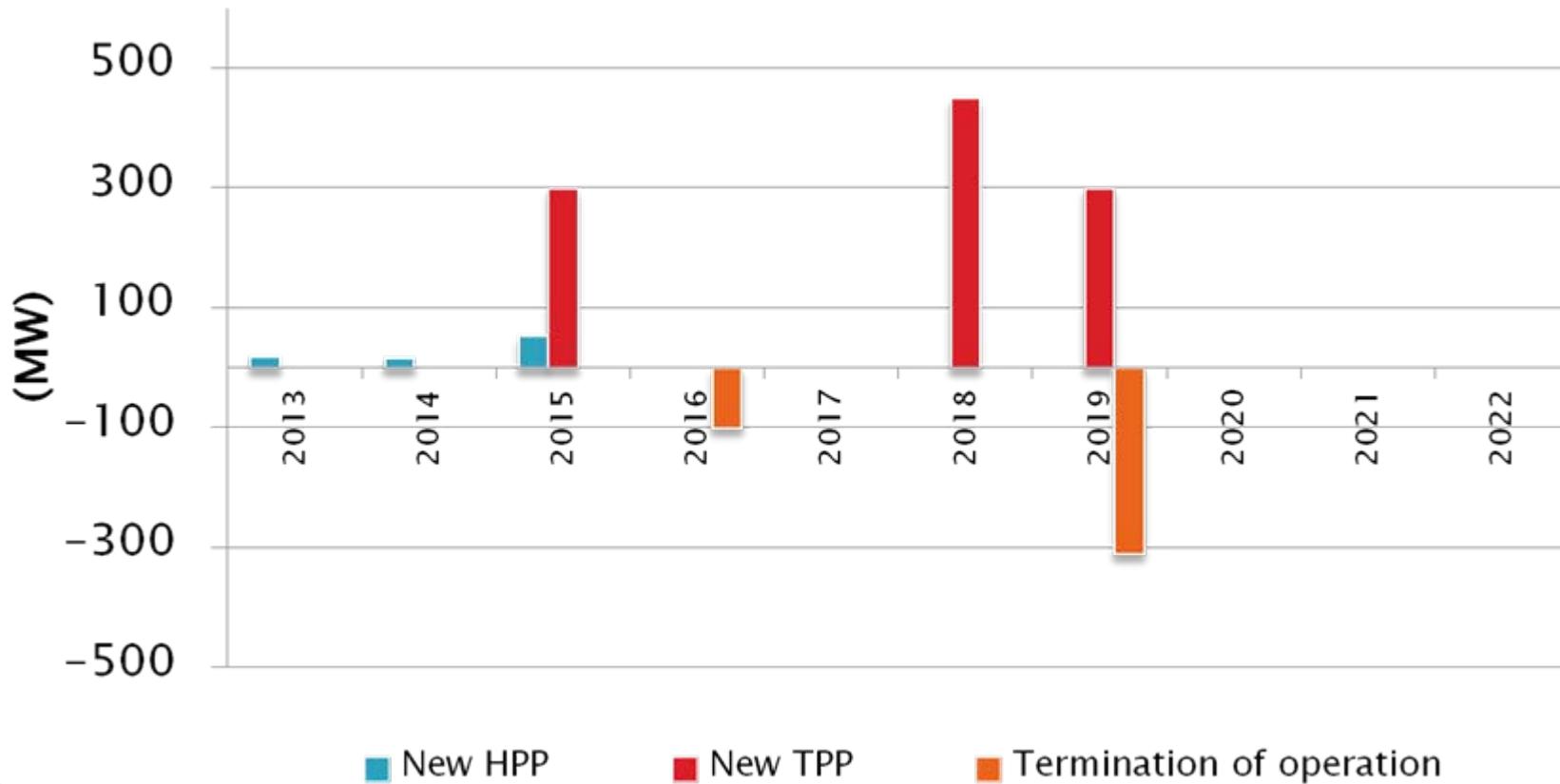
» Future plans

Power system

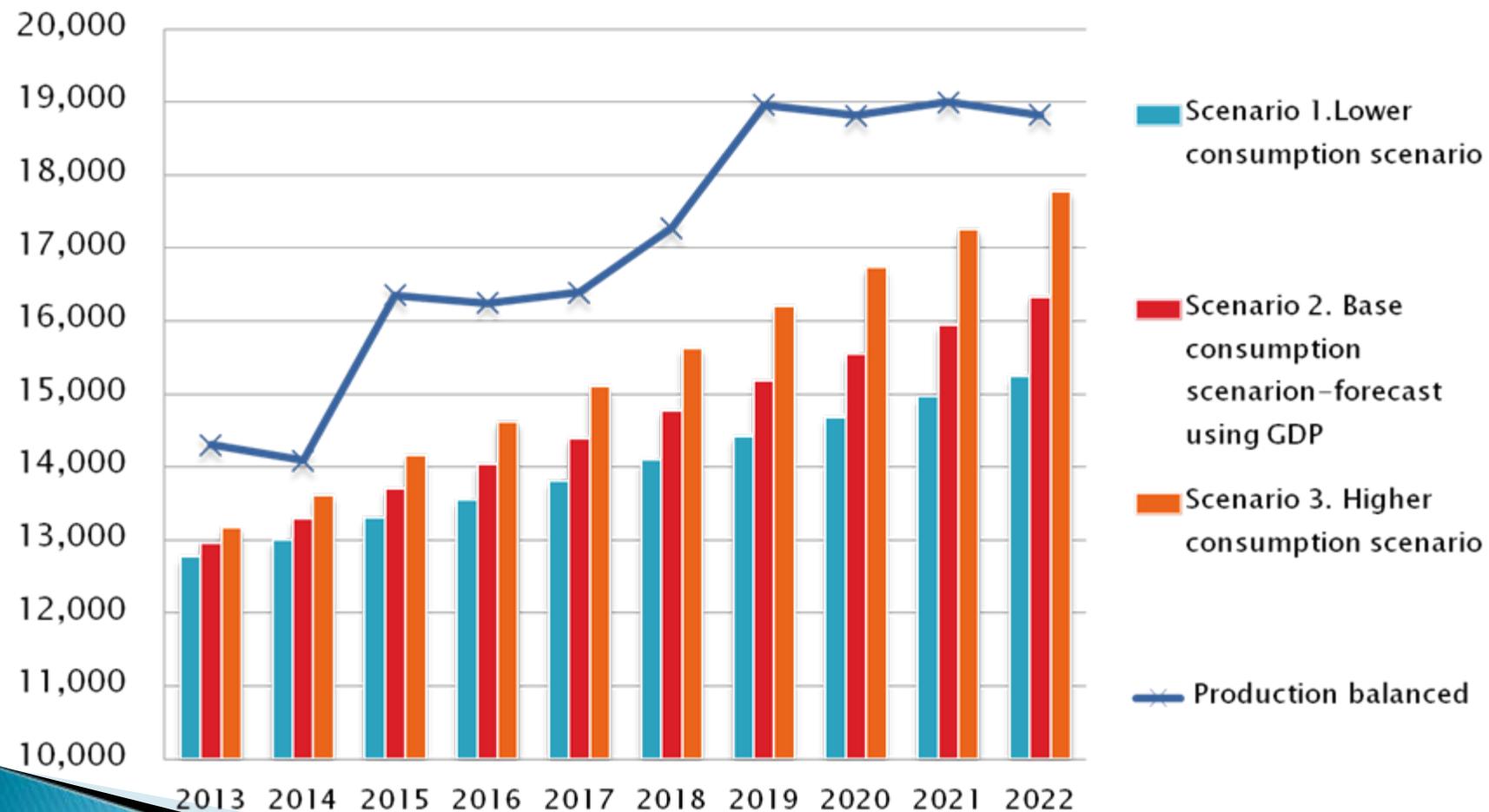
- ▶ Existing plants (1956 – 2010):
 - HPP: 2030.6 MW
 - TPP: 1505.6 MW
 - NPP: 0 MW
 - WPP: 0 MW
 - Total: 3476.2 MW \approx 3.5 GW

- ▶ Planned capacity (2010–2020):
 - 50 HPP: 1.94 GW
 - 9 TPP: 2.24 GW
 - 47 WPP: 3.01 GW

New / Decommissioning Capacities



Electricity balance 2013–2022



Gas / Coal / Oil

- ▶ Several independent studies have been made concerning the subject of future energy demand and supply predictions.
- ▶ There is no official data.

Bosnia and Herzegovina (B&H)

» Difficulties and
bottlenecks

Weaknesses

- ▶ Lack of domestic/national energy institute (all major studies, strategic documents, policies are realized on outsourcing basis).
- ▶ No energy strategy on state level.

- ▶ Three energy ministries in one country.
- ▶ Energy policies are formulated on entity level by entity energy ministries, which often makes them incompatible and incomparable.
- ▶ Lack of energy policies and targets.
- ▶ No punishment measures.
- ▶ As other European countries – highly dependent on gas and oil.

Strengths

- ▶ Bosnia and Herzegovina is a net exporter of electricity.
- ▶ Huge renewable energy potential (specially hydro and wind).
- ▶ In the period 1992–2012, only 100 MW were built – it still isn't too late to adopt missing legislative and policies.

Bosnia and Herzegovina (B&H)

» Areas of interest

Areas of interest

- ▶ Great schedule (looking forward to observations)
- ▶ I'd like to learn more on:
 - Renewable energy policies (incl. Feed-in tariffs)
 - Wind related issues
 - Energy efficiency policies
 - Energy forecasting
 - Greenhouse gas emissions

THANKS

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