

Ministry of Foreign Trade and Economic Relations of Bosnia and Herzegovina 



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Session I
**Co-operation between the Public and Private Sector
and International Organisations to improve energy-
related activities and reduce environmental footprint
in Bosnia and Herzegovina**

**BOSNIA AND
HERZEGOVINA**
Ministry of Foreign Trade and
Economic Relations
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Bosnia and Herzegovina: Basic Information



- Capital: Sarajevo
- Area: 51.197 km²
- Population: aprox. 4 mill
- Lowest point: Neum, 0 m
- Highest point: Maglić, 2386 m
- Coastline: 25,4 km
- Consists of 2 entities and a DC:
 - Federation of BiH
 - Republika Srpska
 - District Brčko of BiH
- Neighboring countries:
 - Serbia
 - Montenegro
 - Croatia
- 3 power utilities
 - EP BiH
 - EP RS
 - EP HZHB

ADMINISTRATIVE STRUCTURE OF B&H

I – State level

B & H

II – Entities

F BiH

RS

III – Cantons

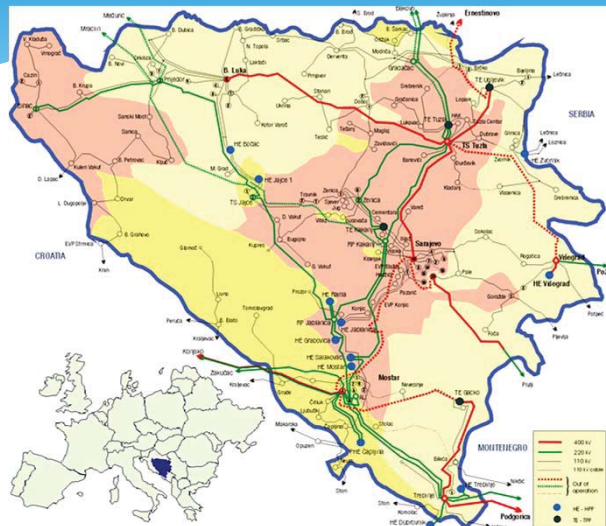
1,2... 10

IV – Local level

Cities /
Municipalities

Cities /
Municipalities

B&H Electric Power System



Generation capacities:

Total 3911 MW
(HPP/TPP: 51/49)

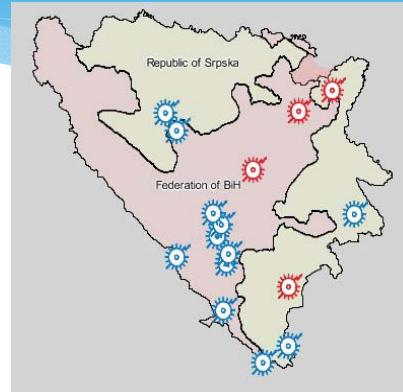
HV Transmission network:

5,434 km HV lines
(400, 220, 110kV),

9, 357MW
transformer capacity

Energy

- Total installed capacity 3911 MW
 - Hydro 2166 MW (56%)
 - Thermal 1745 MW (44%)
- Electricity production 14 TWh
 - Hydro up to 50%
 - Net exporter
- 40% of hydro potential used
- SHPP potential estimated up to 1000 MW
- EU Directive 2009/28/EC on RES
 - Targets identified
 - Investments in third countries
- B&H is Energy Community
 - Target 40% RES in TFC by 2020
- Potential projects
 - Number of new projects
 - 46 new HPP in TSO's 10 year indicative development plan



DOMESTIC ENERGY RESOURCES

- Coal
- Hydropower
- Renewable Energy

IMPORTED ENERGY RESOURCES

- Natural Gas
- Oil

Environment

- **International level legal framework**
 - UNFCCC
 - Espoo convention
 - Aarhus convention
 - Water convention
 - Danube River Protection Convention and Framework Agreement on the Sava River Basin
 - Water Framework Directive (good ecological status and no further deterioration of water bodies)
 - Bilateral agreements with neighboring countries
- **National legal framework**
 - Laws and sub-laws on environmental protection (at entities level)
 - EIA study
 - Environmental permits
 - Water permits
 - Public participation in decision making process

Main challenges

- **Energy sector is one of the main pillars for future socio-economic development in B&H**
- **“Gold rush” in new HPP projects**
 - Feed-in tariff
 - Some projects are advanced
 - Positive and negative impacts
- **Sustainable development**
 - Equally treatment for economic, environmental and social aspects
 - Renewable Energy, (in the process of implementation, Private Company)
- **Lack of transparent a decision making process may hamper future development or deteriorate the environment**

FUTURE VISION OF THE ENERGY SECTOR

- 1. Meets international standards, complies with EU rules and directives**
- 2. Operates efficiently, both technically and commercially**
- 3. Enables efficient and effective competition**
- 4. Revitalisation, Reconstruction and Modernization**

For 1. to 4. Bosnia and Herzegovina need:

- A. Private capital (and successful privatization processes)**
- B. Implementation of the Law on PPP (entity level)**

Impact of Energy-related activities on Environment

- * Development of the Energy Sector and increases in energy consumption could cause negative environmental impact**
- * It is necessary to prepare an EIA with economic analyses and proposals of measures to reduce emissions and air pollution.**
- * Best Available Techniques and Technologies to reduce emission of SO₂, NO_x, particulate matter and other emissions**
- * Reduce GHG emissions and protect the of Ozone Layer**

Way Forward

- **State Energy Law and related sub-laws**
- **Energy Strategy at the State level, as well as at the entity level**
- **Technical and Technological Modernization of Coal Mines and Power Plants**
- **Use of Renewable Energy Sources**
- **Increased Energy Efficiency**
- **Better Mitigation Measures**
- **Environmental improvements according to EU Laws**
- **Many types of antipollution measures (Desulphurization, De-NOx, Upgrade Brown Coal, Water Waste Treatment,...)**
- **Preventive actions and measures, etc, and**
- **Privatization through Public Private Partnerships (PPPs)**

Public-Private Partnerships in B&H

- **Bosnia and Herzegovina demonstrates a high level of capacity at the entity and local levels**
- * **There are some PPP activities regarding the construction of Block 7 of the Tuzla TPP in the Federation of BiH – approximately 800 million €**
- * **Cooperation with international funds:**
 - **IPA**
 - **WBIF**
 - **WB**
 - **IBRD**
 - **UNDP**
 - **USAID...**

Projects financed by international organisations related to environment in Bosnia and Herzegovina

By 2010, the Global Environment Facility (GEF) has approved 10 national GEF projects worth 20,494,898 USD and 17 regional and global projects with a total GEF grant of 66,072,346 USD in Bosnia and Herzegovina

- * These projects include:**
- Strengthening the Implementation Capacities for Nutrient Reduction and Transboundary Cooperation in the Danube River Basin (Tranche 2)- total value of 12,878,000 USD**
- Protection and Sustainable Use of the Dinaric Karst Aquifer System- total value of 3,050,000 USD**
- Forest and Mountain Protected Areas Project- total value of 3,500,000 USD**
- DBSB: Water Quality Protection Project - under WB-GEF Strategic Partnership for Nutrient Reduction in the Danube River and Black Sea- total value of 11,370,000 USD**
- Sustainable Forest and Landscape Management- total value 18,400,000 USD**

OSCE Role

- * National and Regional level**
- * Number of new projects being prepared**
- * RBMP under development and implementation as well as other environmental legislation**
- * Strengthening of Public Participation**
- * Network of Aarhus Centers should be expanded**
- * Other activities**



Thank you for your attention!!!

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