



11th INTERNATIONAL FORUM ON ENERGY FOR SUSTAINABLE DEVELOPMENT

VIRTUAL | SEPTEMBER - NOVEMBER 2021

**Workshop on policy recommendations for
food-water-energy resource management
in Eastern and South-Eastern Europe and Central Asia**

BOSNIA AND HERZEGOVINA

8 October 2021

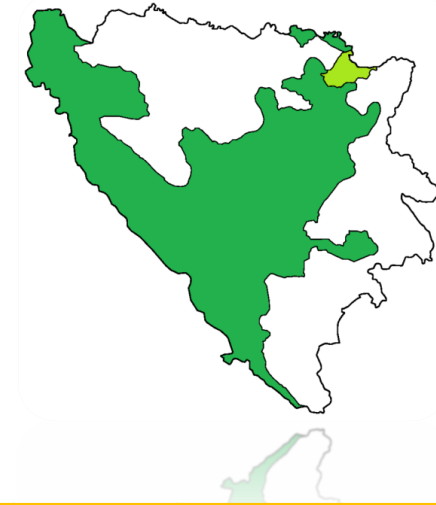


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MRS/MINING SECTOR



COAL RS

Year	2012	2013	2014	2015	2016	Unit
Coal	2 201 062	2 194 257	2 000 524	2 296 360	2.256.897	tons
Lignite	3 140 026	3 333 663	3 483 915	3 791 578	4 729 279	tons

COAL FB&H

Year	2012	2013	2014	2015	2016	Unit
Coal	4 158 094	3 859 780	3 968 931	3 911 791	4 034 584	tons
Lignite	2 812 441	2 377 127	2 219 950	2 112 101	2 467 387	tons

METALS FB&H

Year	2012	2013	2014	2015	2016	Unit
Lead and zinc	20 541	24 736	21 955	24 310	26 678	tons
Bauxite	614 950	482 557	410 482	573 301	527 274	tons
Iron	2 075 732	2 121 908	2 127 564	2 122 802	1 751 800	tons

NON-METALS FB&H

Year	2012	2013	2014	2015	2016	Unit
Salt	118 210	127 603	129 690	120 269	125 020	tons
Cement	845 657	881 580	840 211	807 587	840 945	tons
Gypsum	18 906	16 253	13 646	13 607	13 820	tons



CMRs

Actual support to CMRs support from B&H

2020 Critical Raw Materials (30)			
Antimony	Fluorspar	Magnesium	Silicon Metal
Baryte	Gallium	Natural Graphite	Tantalum
Bauxite	Germanium	Natural Rubber	Titanium
Beryllium	Hafnium	Niobium	Vanadium
Bismuth	HREEs	PGMs	Tungsten
Borates	Indium	Phosphate rock	Strontium
Cobalt	Lithium	Phosphorus	
Coking Coal	LREEs	Scandium	

Score 1/30

PROSPECTS FOR THE FUTURE (next 10 years)

Score 4/30

Mineral resource	Reason for identification	Exploitation	New Explorations (referent year 2021)	Future production forecast in foreseeable future (10 years) – national level	Future importance for the national economy prognosis – expert judgement	
Coal	Reliable electricity and energy supply	Yes	Yes	Increasing	Very High	
Bauxite	High importance for national economy – high employment of the sector positively impact on health care sector; Defined CMR at EU scale	Yes	No	Decreasing	Declining	
Iron	High importance for national economy – high employment of the sector positively impact on health care sector	Yes	No	Increasing	Constant	
Lead and Zinc	High demand in the future for medicine equipment	Yes	Yes	Increasing	Slight Increasing	
Lithium	Driving force of green energy transition	No	Yes	Possible beginning	Increasing	
Cooper	High demand in the future for medicine equipment	No	Yes	Possible beginning	Increasing	
Antimony	Defined CMR at EU scale	No	Yes	Possible beginning	Increasing	
Nickel and Cobalt	Driving force of green energy transition	No	Yes	Possible beginning	Increasing	
Chromium	Production of APIs	No	No	Uncertain	Uncertain	
Manganese	Production of APIs	No, but there are inactive former mines	No	Possible increasing	Uncertain	
Beryllium	High demand in the future for medicine equip.	No	No	Uncertain	Uncertain	

Energy-Water-Food Forecast for B&H

Energy

- Coal and lignite still remain crucial energy resource (TPPs coal based electricity production)

Decarbonization:

- Possibilities for transition in electricity production from renewables: hydro, solar, wind.
- Possibilities in transition in heating sector from fossils to renewable (e.g. Biomass and geothermal)
- Significant issues: future of the investment in coal based TPPs and transboundary issues
- Possible support to European economy in green transition (battery minerals)

Water

- Response to climate changes in water supply
- Priorities and equitable use, transboundary issue, especially regarding HPPs in TB rivers

Food

- Improving of technologies in food production and processing
- Irrigation

INTEGRAL food-water-energy management

UNFC and UNRMS

