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Co-ordination of Research Policies with the Western Balkan Countries

Questionnaire for preparation of the national background report

This questionnaire aims at producing an inventory of research structures, current and future R&D priorities, and policies for cooperation between Western Balkan Countries in the field of R&D in the domain of *Energy.* **Please use data of the closest year available.**

Theme: Energy

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Section A: Main R&D resources in the field of Energy

In this section please provide data necessary for identification of main actors.

A 1. List of institutions / organisations: main RESEARCH PERFORMERS in the PUBLIC sector in the S&T field of Energy (*such as national universities, government laboratories, institutes etc.*)**:**

	Name	Postal address	Web-site
	Bosnia and Herzegovina		
1.	Ministry of Foreign Trade and Economic Relations of B&H (Sector for Natural Resources, Energy and Environment Protection)	Trg BiH 1, 71 000 Sarajevo	www.mvteo.gov.ba
2.	The State Electricity Regulatory Commission	Miška Jovanovića 4/II, 75000 Tuzla	www.derk.ba
3.	Company for the Transmission of Electric Power in Bosnia and Herzegovina – Elektroprenos a.d. Banja Luka	Marije Bursać 7a BiH - 78000 Banja Luka	www.elprenosbih.ba
4.	**ISO –** Independent System Operator in Bosnia and Herzegovina	Hamdije Cemerlica 2	www.nosbih.ba

		71 000 Sarajevo	
	BiH- Federation of Bosnia and Herzegovina:		
5.	Government of Federation of Bosnia and Herzegovina	Alipašina 41, Sarajevo	www.fbihvlada.gov.ba
6.	Regulatory Commission for Electricity in Federation Bosnia and Herzegovina	Blajburških žrtava 33 Mostar	http://www.ferk.ba
7.	JP Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo	Vilsonovo Šetalište 15, Sarajevo	www.elektroprivreda.ba
8.	JP Elektroprivrede HZ HB d.d. Mostar	Mile Budaka 106 A, Mostar	http://www.ephzhb.ba/
09	Federal Ministry of Energy, Mining and Industry	Alekse Santica bb., Mostar	fmeri-mo@bih.net.ba
10	Unsko-sanski Canton	Memedalije M . Dizdara bb. Bihac	www.vladausk.ba
11	Posavski Canton	Ulica III, br. 27, Orasje	www.zupanijaposavska.ba
12	Tuzlanski Canton	Marsala Tita, Tuzla	www.vladatk.kim.ba
13	Zenicko-dobojski Canton	Kucukovica 2, Zenica	www.zdk.ba
14	Bosansko-podrinjski Canton	Visegradska 2, Gorazde	www.bpkgo.ba
15	Srednjobosanski Canton	Stanicna 43, Travnik	www.sbk-ksb.gov.ba
16	Hercegovacko-neretvanski Canton	Stjepana Radica 3, Mostar	www.vlada-hnz-k.ba
17	Sarajevo Canton	Reisa Dzemaludina Causevica 1, Sarajevo	www.ks.gov.ba
18	Academy of Sciences and Arts of Bosnia and Herzegovina	Bistrik 7, 71 000 Sarajevo	www.anubih.ba
19	University of Sarajevo	Obala Kulina Bana 7, Sarajevo	www.unsa.ba
20	Faculty of Electrical Engineering Sarajevo	Zmaja od Bosne bb, Sarajevo	http://www.etf.unsa.ba/
21	Faculty of Electrical Engineering Tuzla	Franjevačka 2, Tuzla	www.untz.ba
22	Center for ecology and natural resources	Zmaja od Bosne 33-35, Sarajevo	www.cepres.pmf.unsa.ba
23	Land Museum of BiH	Zmaja od Bosne 3, Sarajevo	www.zemaljskimuzej.ba
24	Faculty of Forestry, University of Sarajevo	Zagrebacka 20, Sarajevo	www.sufasa.org
25	Faculty for Economy	Trg oslobodjenja 1, Sarajevo	www.efsa.unsa.ba
26	Hydro Engineering Institute, Sarajevo	Stjepana Tomica 1, Sarajevo	
27	Hydro Meteorological Institute of FBiH	Bardakcije 12, Sarajevo	www.fhmzbih.gov.ba
28	Faculty of Mechanical Engineering University of Mostar	Matice hrvatske bb., Mostar	www.fsr.ba
28	Faculty of Mechanical Engineering	Vilsonovo setaliste 9,	www.mef.unsa.ba

	University of Sarajevo	Sarajevo	
30	Faculty of Science and Education, University of Mostar	Univerzitetski kampus, Mostar	www.unmo.ba
31	Faculty of Mining , Geology and Construction Engeneering	Univerzitetska 2, Tuzla	www.untz.ba
32	Faculty of Metallurgy and Materials University of Zenica	Fakultetska 3, Zenica	www.unze.ba
33	Faculty of Mechanical Engineering University of Zenica	Fakultetska 3, Zenica	www.unze.ba
	BiH – Republika Srpska:		
34	Government of Republika Srpska	Trg Republike Srpske br.1, 78 000 Banja Luka	www.vladars.net
35	Ministry of industry, energy and mining	Trg Republike Srpske br.1, 78 000 Banja Luka	
36	Regulatory Commission for Energy of Republika Srpska	Srpska broj 2, Trebinje	http://www.reers.ba/
37	Elektroprivreda Republike Srpske	Stepe Stepanovića bb Trebinje	www.ers.ba
38	Academy of Sciences and Arts of Republika Srpska	Bana Lazarevića 1 78000 Banja Luka (RS - BiH)	www.anurs.org
39	University of Banja Luka Faculty of Mechanical Engineering	Vojvode Stepe Stepanovića 75, 78000 Banja Luka (RS - BiH)	www.mf.unibl.org
40	University of Banja Luka Faculty of Arhictecture and Civil Engineering	Vojvode Stepe Stepanovića 77/3, 78000 Banja Luka (RS - BiH)	www.agf.unibl.org
41	University of East Sarajevo	Vuka Karadzica 30, Lukavica, East Sarajevo	www.unssa.rs.ba
42	University of East Sarajevo Faculty of Electrical Engineering	Vuka Karadžića 30 71126 Lukavica,	www.etf.unssa.rs.ba
43	University of East Sarajevo Faculty of Mechanical Engineering	Vuka Karadžića 30 71126 Lukavica,	www.maf.unssa.rs.ba
44	University of Banja Luka	Bulevar vojvode Petra Bojovića 1 A, 78 000 Banja Luka	uni-bl@blic.net
	Brčko District:		
45	Government of Brcko District	Bulevar mira 1, Brcko	www.bdcentral.net

A 2. List of institutions / organisations: main RESEARCH PERFORMERS in the PRIVATE sector in the S&T field of Energy (*such as national universities, government laboratories, institutes etc.***):**

	Name	Postal address	Web-site
1.	Hydro-Engineering Institute of Civil Engineering Faculty in Sarajevo	Stjepana Tomića 1, 71 000 Sarajevo	heis@heis.com.ba
2.	Ceteor	Put života bb, 71 000 Sarajevo	www.**ceteor**.ba
3.	Udruženje inženjera opštine Banovići	Podgorje 42, Banovići	www.uiob.co.ba
	Mining institute Tuzla	Rudarska 72, Tuzla	http://www.rudarski-institut.com.ba/
4.	Civil Engineering Institute IG Banja Luka	Poslovni centar Integra Kralja Petra I Karađorđevića 92-98. 78000 Banja Luka	www.institutig.com
5.	Economic Institute Banja Luka	Ulica Kralja Alfonsa XIII, br.18 78000 Banja Luka	www.ekinst.org
6.	Technical Institute Bijeljina	Ul. Starine Novaka bb 76300 Bijeljina	www.tehnicki-institut.com
7.	Institute of Applied Geology and water engineering	Ul. Vidovdanska br. 48, *Bijeljina*	www.ipininstitut.com
8.	Eling-inženjering	Svetog Save br.87 teslić	www.eling.rs.ba

A 3. Which organisations are responsible for financing R&D in the field of Energy:

	Name	Web-site	Financing R&D– Year 2010: Total amount in national currency (000)	Financing R&D– Year 2010: Total amount in EUR (000)
1.	Elektroprenos a.d. Banja Luka	www.elprenosbih.ba		
2.	Government of Federation of BH	http://www.fbihvlada.gov.ba/		
3.	Federal Ministry of Mining,Energy and Industry	www.fmeri.gov.ba		
4.	JP Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo	www.elektroprivreda.ba		
5.	JP Elektroprivrede HZ HB d.d. Mostar	http://www.ephzhb.ba/		
6.	Government of Republika Srpska,	mnk@mnk.vladars.net		
7.	Ministry of Industry, Energy and Mining RS			
8.	Elektroprivreda Republike Srpske	www.ers.ba		
		TOTAL::		

A 4. How is research performed? (*please indicate all that apply*)

	Lead participating body (please use numbers from question A 3)	**Other relevant bodies** (please use numbers from question A 3)
In own institutions		
Published calls for tenders, open to all researchers		
Restricted tenders to preferred suppliers		
Co-funding with other national bodies		
Co-funding with other countries		
Other approaches – please fill in: _____		
Other approaches – please fill in: _____		
Is support restricted to national bodies (Y / N)		

A 5. R&D capacity* in S&T field:

	1990	**2005**	**2010**	***2015***
Total number of research organizations				
Of which universities				
Of which public research organizations				
Of which private research organizations				
Number of PhD students graduated				
Total number of R&D personnel				
Percentage of women in the total number of R&D personnel				
Total number of employees on a Full-Time-Equivalent (FTE) basis				
Total number of researchers				
Percentage of women in the total number of researchers				
Total number of researchers on a FTE basis				
Number of researchers with Ph.D. degree or higher				
Number of researchers with Ph.D. degree or higher on a FTE basis				
Number of researchers under the age of 35				
Number of researchers under the age of 35 on a FTE basis				

* Please use OECD - Frascati Manual definitions if possible.

A 6. Research infrastructure in S&T field of Energy:

(a) Please assess the physical research infrastructure (without office equipment)

The R&D institutions in general have an internationally competitive research infrastructure and are able to conduct top research in cutting-edge research topics	☐
The R&D institutions in general have top research infrastructure, the infrastructure enables regular international research co-operation but are not competitive if compared with the 'best in this research field'	☐
The R&D institutions in general have good quality research infrastructure, probably one of the most up-to-date in the country, but are not good enough to join in international research on a regular basis	☐
The R&D institutions in general have a rather obsolete research infrastructure if compared with international organisations and this is an obstacle to international research co-operation	X
The R&D institutions in general have a rather obsolete research infrastructure and it is an obstacle to more domestic contracts	☐
The R&D institutions in general have no substantial infrastructure, but they have access to it and can participate in top research both nationally and internationally	☐

(b) Please indicate most important physical research infrastructure in S&T field of *[Theme]:*

MoFTER BH
Elektroprenos a.d. Banja Luka

Government of Federation of BH
Federal Ministry of Mining,Energy and Industry
JP Elektroprivreda Bosne i Hercegovine d.d. - Sarajevo
JP Elektroprivrede HZ HB d.d. Mostar
Government of Republika Srpska,
Ministry of Industry, Energy and Mining RS
Elektroprivreda Republike Srpske

A 7. Large and/or National R&D projects in S&T field of Energy (Please provide a list of large national R&D projects in S&T field in annex of this report):

	ongoing /started in 2010	completed in 2010
Number of **large** R&D projects**		
Of which: the number of projects in collaboration with industry		
the number of projects in which the national organisation co-ordinates		
the number of EU FP projects in which national institutions participate		
the number of EU FP projects in which national institutions coordinate		
Number of **national** R&D projects***		
Of which: the number of projects in collaboration with industry		

** the total project budget is above EUR 100 thousand and the national institutions' share is at least EUR 20 thousand
*** projects funded in some proportion (10-100%) by the national agency / ministry

A 8. Source of financing of R&D activities in S&T field of Energy:

	Year 2010– Share in %:
a) Private companies?	
b) International sources (such as the EU, UN, OECD, NATO etc.)?	
c) Not competitive* government financing?	
d) Competitive* government financing?	
e) Other sources (foundations, non-profit organisations, etc.)?	

*Projects won after competitive bidding procedures – so that the organisation can actually lose the funding targeted at the end of the procedure – count as source on a competitive basis. If the organisation participates in a money-allocation mechanism so that the money cannot be lost (but e.g. 'only' reduced), it counts as source on a non-competitive basis of research funding even if the procedure itself is called 'competitive bidding'.

Section B: Qualitative assessment of the S&T field

In this section please provide comprehensive description of the following issues:

B 1. Current situation, priorities and co-operation in S&T field:

B 1.1 Current situation:

a) What are the main national development policy priorities?
- Energy Sector Development Strategy of Bosnia and Herzegovina
- Law on Gas
- Law on compulsory stocks of oil

b) What are the main R&D priorities?
- Attracting investment to Bosnia and Herzegovina
- CDM mechanism

c) How would you put identified R&D priorities in EU research topics?
   - Energy Sector Development Strategy of Bosnia and Herzegovina

B 1.2 Future priorities:

Describe how your future R&D priorities are selected and priorities agreed (e.g. foresight)? Are these driven by national policy priorities?

- **Structural reforms**
  The basic structural reforms relates to the reform of managing public goods, and that means breaking the link between government and energy companies, and establishing systems according to EU standards. This measure alone can create conditions for the creation of relevant policies and improve management wich at the bottom line is for the benefit of the citizens.

a) Over the next 10 years, what will be the main R&D policy issues in this S&T field?

- International Obligations
- Renewable Sources of Energy
- Energy Efficiency
-

B 1.3 What national policy and R&D priorities should be the subject for establishment of specific co-operation with other Western Balkan Countries?

- Structural reforms and co-operation in Energy Sector with other Western Balkan Countries

B 1.4 It is hoped that this exercise will identify areas for future collaboration and R&D co-operation in this S&T field, probably leading to a possible WBC R&D co-operation proposals under FP7. These projects foresee four levels of co-operation. They range from:

a) The minimum – exchange of information and results;
b) Systematic exchange and development of complementary programmes;
c) Development of common approaches to agreed R&D priorities;
d) The maximum – full joint approaches, common programmes and pooled funds with open access to researchers from participating countries.

So, with this in mind, what levels of co-operative actions would your country be able to support in the future in this S&T field?

The maximum – full joint approaches, common programmes and pooled funds with open access to researchers from participating countries.

B 1.5 A suggestion is to have a high level meeting once or twice a year; where WBC could decide upon themes on which to co-operate. This may lead to a proposal for a project or other forms of co-operation. Would your country be willing to participate in a high level meeting with other WBC to decide upon these themes?

Bosnia and Herzegovina will be participated in a high level meeting with other WBC to decide upon these themes.

Thank you very much for your effort!