

NAMA Seeking Support for Implementation

A.1 Party The Republic of Serbia			
A.2 Title of Mitigation Action		Thermal Power Project with Capacity and Efficiency Increase I - TTP Nikola Tesla – Unit B2	
A.3_Description of mitigation action		Restoration and modernization of a lignite thermal power plant with capacity increase of 47 MW. Adopted technologies include rehabilitation and modernization of the steam turbine, condensing plant and cooling system unit, boiler and auxiliary equipment (e.g., low/high pressure feed water heaters), as well as revitalization and improvement of the firing system and the combustion process by introducing "Low NOx" burners and increasing the efficiency of the old thermal units. The Project will be implemented in two phases - 1 st in 2015 and 2 nd in 2019. Each phase will take 6 months.	
A.4 Sector	Energy supply Residential an Agriculture Waste manag	y	
A.5 Technology	 Bioenergy Energy Efficie Hydropower Wind energy Carbon Captu 	Cleaner Fuels ency Geothermal energy Solar energy Ocean energy ure and Storage Other <pis enter="" here="" other="" text=""></pis>	
A.6 Type of action	 National/ Sector Strategy National/Sector Project: Investigation Project: Investigation Other: <pls end<="" li=""> </pls>] National/ Sectoral goal] Strategy] National/Sectoral policy orprogram] Project: Investment in machinery] Project: Investment in infrastructure] Other: <pis enter="" here="" other="" text=""></pis>	
B National Implementing Entity			
B.1 Name	Public Enterp	rise Electric Power Industry of Serbia	
B.2.1 Contact PersonAleksandar OB.2.2 AddressBalkanska 13B.2.3 Phone+381 11 2024B.2.4 Emailaleksandar.ol		bradovic, General Manager, A.I. , Belgrade 4 600 bradovic@eps.rs	
B.3.1 Contact Perso (alternative Contac B.3.2 Address	on Mihajlo Gavri ^{tt Person 1)} Vojvode Step	ic e 412, Belgrade	

United Nations Framework Convention on Climate Change			
B.3.3 Phone +381 11 3952 316			
B.3.4 Email mihajlo.gavric@eps.r	S		
B.4.1 Contact Person Dragan Vukotic (alternative Contact Person 2)			
B.4.2 Address Vojvode Stepe 412, Belgrade			
B.4.3 Phone +381 11 3952 349	+381 11 3952 349		
B.4.4 Email dragan.vukotic@eps.	rs		
 C. Expected timeframe for the implementation of the mitigation action C.1 Number of years for completion C.2 Expected start year of implementation 2015 			
D.1 Used Currency EURO			
E Cost E.1 Estimated full cost of implementation	111,000,000.00		
E.2 Estimated incremental cost of implementa	ation n/a		
F Support required for the implementation of the mitigation action			
F.1.1 Amount of financial support 111,000,000			
F.1.2 Type of required financial support			
Loan (sovereign)	Loan (Private)		
Concessional Ioan	Debt Swap		
	Carbon financo		
	\square Others: <pls enter="" here="" other="" text=""></pls>		
F.1.3 Comments on Financial Support	EPS is open for various solutions regarding the finance of the project as stated in F.1.2.		
F.2.1 Amount of Technological Support	0.00		
F.2.2 Comments on Technological Support	<pls comments="" enter="" here=""></pls>		
F.3.1 Amount of capacity building support	0.00 \$ (Dollars)		
F.3.2Type of required capacity building suppo	rt 🔲 Institutional development		
	Human capital Systemic (policies, legislative, regularatory,etc)		
F.3.3 Comments on Capacity Building Support	t		
G Estimated emission reductions			



G.1 Amount 5.30

- G.2 Unit MtCO2e
- G.3 Comments Estimation is calculated based on 15 years of technical life time of instalation after the reconstruction.
- H.1 Other indicators of implementation Idea Design and Feasibility Study is under development
- I.1 Other relevant information including benefits for local sustainable development Implementation of the NAMA is meeting majority of the Sustainable Development Indicators in accordance with tree criterion indicated in appendix of the Serbian DNA Rules of procedure.

According to the economic criterion, it satisfies following fields:

- 1. Economic development of the region Reconstruction of the TPP Nikola Tesla B2 will improve ehisting infrastructure; it also contributes to the power system stability and supply security, which consequently have effect on the stability of the prices for electric energy.
- 2. Employment Reconstruction of the TPP Nikola Tesla B2 will provide work for many domestic companies.
- 3. Priorities of the sector Power generation at the TPP Nikola Tesla B2 will contribute to the power system stability and supply security, which represent one of the priorities in the energy sector.
- 4. Consumption and generation Power generation at the reconstructed power plant will reduce need for electricity import, and its modern concept will reduce waste production per unit of generated energy as well as waste management in ecology acceptable manner.

According to the social criterion, it satisfies following fields:

- 1. Life conditions improvement Project implementation of such scope, lead up to the employment increase, as well as income increase, on the local and regional level.
- 2. Capacity increase According to the work needs and modern equipment maintenance, strategic partner will provide training for the employees, as well as expertise and tools for local companies engaged on this implementation of the project during its operational life.

According to the environment and natural resources criterions, it satisfies following fields:

- Energy resources Generation of TPP Nikola Tesla B2 will, due to the higher energy efficiency of the plant, reduce coal consumption for power generation, and significantly reduce need for electricity import.
- 2. Air Due to the application of the modern technology and higher energy efficiency of the plant, project will result in reduced emission levels of CO2, SOx and NOx, comparing to the existing thermo power plants in Serbia.



- 3. Water Contribution to the sustainable water use would be the application of measures for water treatment of all water quantities used in the technological process of electricity generation.
- 6. Natural recourses Modern concept of the unit TPP Nikola Tesla B2 will significantly contribute to the sustainable use of mineral recourses, because energy efficiency of primary energy transformation (≈ 34%) will be significantly higher than existing thermal power plants in Serbia. Exploitation life of domestic lignite deposits is extended that way.

J Links to National Policies and other NAMAs

J.1 Relevant National Policies http://www.merz.gov.rs/en ; http://192.168.16.144/Eng/Article.aspx?lista=Sitemap&id=14