NS-33 - Use of Solar energy for domestic hot water production in Heat plant "Cerak" in Belgrade

Serbia

NAMA Seeking Support for Implementation

	A Overview	
A.1 Party	Serbia	
A.2 Title of Mitigation Action	Use of Solar energy for domestic plant "Cerak" in Belgrade	c hot water production in Heat
A.3 Description of mitigation action	Heating plant Cerak currently us deliver heat for space heating and residential and non-residential cumunicipalities: Cukarica and Ralinstallation of solar collectors to generation, amounting for around to 7,000 households. The action 5,000 m2 of solar collectors, hot exchanger, expansion vessel, pur and connect a new solar plant wi	d domestic hot water to astomers in Belgrade kovica. The NAMA involves replace a part of the hot water d 2,700 MWh which is supplied will introduce approximately water storage tank, heat mps, valves, automatic control,
A.4 Sector	X Energy supply X Residential and Commercial buildings Agriculture Waste management	Transport and its Infrastructure Industry Forestry
	Other	
A.5 Technology	Bioenergy Energy Efficiency Hydropower Wind energy Carbon Capture and Storage Land fill gas collection	Cleaner Fuels Geothermal energy X Solar energy Ocean energy Low till / No till
	Other	
A.6 Type of action	National/ Sectoral goal Strategy National/Sectoral policy or program	Project: Investment in machinery X Project: Investment in infrastructure Project: Other
	Other	
A.7 Greenhouse gases covered by the action	CO2 N2O PFCs Other	CH4 HFCs SF6

B National Implementing Entity			
B.1.0	Name	Public Utility Company District Heating Plants of Belgrade and Business Association "Heating Serbia"	
B.1.1	Contact Person 1	Mr. Petar Vasiljevic	
B.1.2	Address	Savski nasip 11, Belgrade, Serbia	
B.1.3	Phone	+381-11-20-93-392	
B.1.4	Email	p.vasiljevic@beoelektrane.rs	
B.1.5	Contact Person 2		
B.1.6	Address		
B.1.7	Phone		
B.1.8	Email		
B.1.9	Contact Person 3		
B.1.10	Address		
	Phone		
	Email		
B.1.13	Comments		
	C Expected timeframe for the	e implementation of the mitigation action	
C.1	Number of years for co	1	
C.2	Expected start year of i	implementation 2013	
		D Currency	
D.1	Used Currency	AED	
		Conversion to USD: 1	
		E Cost	
E.1.1	Estimated full cost of imp		
E.1.2	Comments on full cost of		
E.2.1	Estimated incremental cos	-	
E.2.2	Comments on estimated in	_	
	implementation		
F Support required for the implementation the mitigation action			
F.1.1	Amount of Financial support	1050000	
F.1.2	Type of required Financial support	X Grant	
		X Loan (sovereign) Guarantee	
		Loan (Private) Equity	
		Concessional loan X Carbon finance	
		Other	
F.1.3	Comments on Financial support	Ctilet	
F.2.1	Amount of Technological support		
F.2.2	Comments on Technological support		
F.3.1	Amount of capacity building support		
F.3.2	Type of required capacity building support		
1.5.2	Type of required capacity bulleting support	Individual level	
		Institutional level	
		Systemic level	
		Other	
F.3.3	Comments on Capacity Building support		
F.4	Financial support for implementation required		
F.5	Technological support for implementation		
	required		

F.6 Capacity Building support for implementation required			
G Estimated emission reductions			
G.1 Amount	0.000611		
G.2 Unit	MtCO2e/yr		
G.3 Additional imformation (e.g. if available,	12,220 tCO2e (20 years) Methodology applied for estimation:		
information on the methodological approach followed)	General calculation method used in IPCC Guidelines		
H Other indicators			
H.1 Other indicators of implementation	The Feasibility study completed in 2008		
I Other relevant information			
1	Saving fossil fuel consumption Creation of local employment		
<u> </u>	opportunities Similar activities could be implemented on the other locations in Belgrade and Serbia.		
J Relevant National Policies strategies, plans and programmes and/or other mitigation action			
J.1 Relevant National Policies Energy sector development strategy of the Republic of Serbia by			
	2015		
J.2 Link to other NAMAs			
K Attachments			
K Attachments	Title Description		
K.1 Attachment description			
K.2 File	Browse		
I	Support received		
L.1 Outside the Registry			
L.2 Within the Registry	Support provided SupportType Amount Comment Date		
	ODA for Climate Capacity 11/6/2014		
	Change Measures building		
	AM		