NS-32 - Introduction of metering system and billing on the basis of measured consumption in district heating systems in Serbia

Serbia

NAMA Seeking Support for Implementation

	A Overview
A.1 Party	Serbia
A.2 Title of Mitigation Action	Introduction of metering system and billing on the basis of measured consumption in district heating systems in Serbia
A.3 Description of mitigation action	Almost all residential consumers connected to the district heating (DH) network in Serbia are paying their bill based on the floor size, instead of the actual amount of heat consumption. This billing system has prevented consumers from having energy saving mindset. The NAMA involves installation of devices that allow metering of heat consumption by each consumer, which is a necessary prerequisite for billing on the basis of actual heat consumption. Measures to be introduced include heat allocators with radio modem, thermostatic radiator valves as well as rehabilitation of 50% of existing substations in Serbia (approximately 12,500 substations) and installation of heat meters, automatic control, pumps with integrated frequency converters, plate heat exchangers, valves, etc. The NAMA will contribute to climate change mitigation through reducing the consumption of heat at residential sector, which is generated by fossil fuels.
A.4 Sector	Energy supply X Residential and Commercial buildings Agriculture Waste management Other
A.5 Technology	Bioenergy Cleaner Fuels X Energy Efficiency Geothermal energy Hydropower Solar energy Wind energy Ocean energy Carbon Capture and Storage Low till / No till
A.6 Type of action	Other
	National/ Sectoral goalXStrategyXNational/Sectoral policy or programXProject: Investment in infrastructureProject: Other

A.7 Greenhouse gases covered by the action		Other		
		CO2 CH4		
		N2O HFCs		
		PFCs SF6		
		Other		
[al Implementing Entity		
B.1.0	Name			
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			
B.1.11	Phone			
B.1.12	Email			
B.1.13	Comments			
	C Expected timeframe for the	he implementation of the mitigation action		
C.1	Number of years for c	completion 4		
C.2	Expected start year of	implementation 2013		
		D Currency		
D.1	Used Currency	AED		
	5			
		Conversion to USD: 1		
E Cost				
E.1.1	Estimated full cost of impler	nentation 212000000		
E.1.2	Comments on full cost of im	plementation		
E.2.1	Estimated incremental cost of implementation			
E.2.2	Comments on estimated incr	remental cost of		
	implementation			
F Support required for the implementation the mitigation action				
F.1.1	Amount of Financial support	212000000		
F.1.2	Type of required Financial support	XGrant		
		X Loan (sovereign) Guarantee		
		Loan (Private)		
		Concessional loan X Carbon finance		
		Other		
E12	Comments en Finensiel suns est			
F.1.3	Comments on Financial support			
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			
		Institutional level		
		Systemic level		
L				

		Other		
F.3.3				
F.4	Financial support for implementation required			
F.5	Technological support for implementation required	n 🗌		
F.6	Capacity Building support for implementarequired	ation		
	G Estim	nated emission reductions		
G.1 An	nount	0.32		
G.2Un	it	MtCO2e		
inf	ditional imformation (e.g. if available, ormation on the methodological approach lowed)	6,582,340 tCO2e (20 years) Methodology applied for estimation: the one applied for Initial National Communication, which is based on IPCC Guidelines		
H Other indicators				
H.1	Other indicators of implementation	Several pilot projects ongoing		
I Other relevant information				
	efits for local sustainable development	Efficient use of domestic and imported energy sources Education and awareness raise of consumers about benefits and technical possibilities of energy saving Development of heat billing methodology Creation of local employment opportunities		
J Relevant National Policies strategies, plans and programmes and/or other mitigation action				
J.1 Rele		In line with The first Energy efficiency plan of the Republic of Serbia for the period from 2010 to 2012: Billing on the basis of actual (measured) consumption of energy by consumers connected to district heating system.		
J.2 Linl	k to other NAMAs			
		K Attachments		
K	Attachments	Title Description		
K.1	Attachment description			
K.2	File	Browse		
	Ι			
L.1 Out	tside the Registry			
L.2 Wit	thin the Registry	Support providedSupport Type Amount CommentDate		
		ODA for Climate Capacity Change Measures building 0 11/4/2014 AM		