NAMA Seeking Support for Implementation

A.1 Party   Republic of 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
- [ ] Transport and its Infrastructure
- [ ] Industry
- [ ] Forestry

A.5 Technology
- [ ] Bioenergy
- [x] Energy Efficiency
- [ ] Hydropower
- [ ] Wind energy
- [ ] Carbon Capture and Storage
- [ ] Cleaner Fuels
- [ ] Geothermal energy
- [ ] Solar energy
- [ ] Ocean energy
- [ ] Other <Pls enter Other text here>

A.6 Type of action
- [ ] National/ Sectoral goal
- [ ] Strategy
- [ ] National/Sectoral policy orprogram
- [x] Project: Investment in machinery
- [x] Project: Investment in infrastructure
- [ ] Other: <Pls enter Other text here>

B   National Implementing Entity

B.1 Name   Public Utility Company District Heating Plants of Belgrade and Business Association "Heating Serbia"

B.2.1 Contact Person   Mr. Petar Vasiljevic

B.2.2 Address   Savski nasip 11, Belgrade, Serbia

B.2.3 Phone   +381-11-20-93-392

B.2.4 Email   p.vasiljevic@beoelektrane.rs

B.3.1 Contact Person
      (alternative Contact Person 1)

B.3.2 Address   <Pls enter Address here>

B.3.3 Phone

B.3.4 Email

B.4.1 Contact Person   <Pls enter name of Contact Person here>
      (alternative Contact Person 2)

B.4.2 Address   <Pls enter Address here>

B.4.3 Phone   <Pls enter Phone Number here>

B.4.4 Email   <Pls enter Email Address here>

C.   Expected timeframe for the implementation of the mitigation action

C.1 Number of years for completion   4

C.2 Expected start year of implementation   2013

D.1 Used Currency   Euro

E Cost

E.1 Estimated full cost of implementation   212,000,000.00

E.2 Estimated incremental cost of implementation   0.00

F Support required for the implementation of the mitigation action

F.1.1 Amount of financial support   212,000,000

F.1.2 Type of required financial support

☒ Loan (sovereign)   ☐ Loan (Private)
☐ Concessional loan   ☐ Debt Swap
☒ Grant   ☐ Equity
☐ Guarantee   ☒ Carbon finance
☐ FDI   ☐ Others: under consideration

F.1.3 Comments on Financial Support

F.2.1 Amount of Technological Support   0.00

F.2.2 Comments on Technological Support   <Pls enter Comments here>

F.3.1 Amount of capacity building support   0.00   ☐ $ (Dollars)
                                                                         ☐ man/hours

F.3.2 Type of required capacity building support ☐ Institutional development
☐ Human capital
☐ Systemic (policies, legislative, regularatory,etc)

F.3.3 Comments on Capacity Building Support   <Pls enter Comments here>

G Estimated emission reductions

G.1 Amount 0.32

G.2 Unit MtC02e/yr

G.3 Comments Total reduction: 6,582,340 tCO2e (20 years)

Methodology applied for estimation: the one applied for Initial National Communication, which is based on IPCC Guidelines

H.1 Other indicators of implementation : Several pilot projects ongoing

I.1 Other relevant information including benefits 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 Links to National Policies and other NAMAs

J.1 Relevant National Policies   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.