NAMA Seeking Support for Implementation

A.1 Party          Republic of Serbia

A.2 Title of Mitigation Action          Use of Solar energy for domestic hot water production in Heat plant “Cerak” in Belgrade

A.3 Description of mitigation action          Heating plant Cerak currently uses natural gas to produce and deliver heat for space heating and domestic hot water to residential and non-residential customers in Belgrade municipalities: Cukarica and Rakovica. The NAMA involves installation of solar collectors to replace a part of the hot water generation, amounting for around 2,700 MWh which is supplied to 7,000 households. The action will introduce approximately 5,000 m² of solar collectors, hot water storage tank, heat exchanger, expansion vessel, pumps, valves, automatic control, and connect a new solar plant with the existing heat plant.

A.4 Sector

- ☒ Energy supply
- ☒ Residential and Commercial buildings
- ☐ Agriculture
- ☐ Waste management
- ☐ Transport and its Infrastructure
- ☐ Industry
- ☐ Forestry

A.5 Technology

- ☐ Bioenergy
- ☐ 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 or program
- ☐ Project: Investment in machinery
- ☒ 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

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
**C. Expected timeframe for the implementation of the mitigation action**

C.1 Number of years for completion 2
C.2 Expected start year of implementation 2013

**D.1 Used Currency** Euro

**E. Cost**

E.1 Estimated full cost of implementation 1,050,000.00
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 1,050,000.00

F.1.2 Type of required financial support

- [x] Loan (sovereign)
- [ ] Loan (Private)
- [ ] Concessional loan
- [ ] Debt Swap
- [x] Grant
- [ ] Equity
- [ ] Guarantee
- [x] Carbon finance
- [ ] Others: under consideration

F.1.3 Comments on Financial Support <Pls enter Comments on Financial Support here>

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)

F.3.2 Type of required capacity building support

- [ ] Institutional development
- [ ] Human capital
- [ ] Systemic (policies, legislative, regulatory, etc)

F.3.3 Comments on Capacity Building Support <Pls enter Comments here>
**G** Estimated emission reductions

G.1 Amount  0.000611

G.2 Unit  MtCO2e/yr

G.3 Comments  Total reduction: 12,220 tCO2e (20 years)

Methodology applied for estimation: General calculation method used in IPCC Guidelines

**H.1** Other indicators of implementation  The Feasibility study completed in 2008

**I.1** Other relevant information including benefits for local sustainable development

- Saving fossil fuel consumption
- Creation of local employment opportunities

Similar activities could be implemented on the other locations in Belgrade and Serbia.

**J** Links to National Policies and other NAMAs

J.1 Relevant National Policies  Energy sector development strategy of the Republic of Serbia by 2015