



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 | <input checked="" type="checkbox"/> Energy supply <input checked="" type="checkbox"/> Residential and Commercial buildings <input type="checkbox"/> Agriculture <input type="checkbox"/> Waste management | <input type="checkbox"/> Transport and its Infrastructure <input type="checkbox"/> Industry <input type="checkbox"/> Forestry |
| A.5 Technology | <input type="checkbox"/> Bioenergy <input type="checkbox"/> Energy Efficiency <input type="checkbox"/> Hydropower <input type="checkbox"/> Wind energy <input type="checkbox"/> Carbon Capture and Storage | <input type="checkbox"/> Cleaner Fuels <input type="checkbox"/> Geothermal energy <input checked="" type="checkbox"/> Solar energy <input type="checkbox"/> Ocean energy <input type="checkbox"/> Other <Pls enter Other text here> |
| A.6 Type of action | <input type="checkbox"/> National/ Sectoral goal <input type="checkbox"/> Strategy <input type="checkbox"/> National/Sectoral policy or program <input type="checkbox"/> Project: Investment in machinery <input checked="" type="checkbox"/> Project: Investment in infrastructure <input type="checkbox"/> 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 | |



| | | |
|---|--|---|
| B.3.1 Contact Person | <Pls enter name of Contact Person here> | |
| | (alternative Contact Person 1) | |
| B.3.2 Address | <Pls enter Address here> | |
| B.3.3 Phone | <Pls enter Phone Number here> | |
| B.3.4 Email | <Pls enter Email Address here> | |
| 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 | 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 | | |
| | <input checked="" type="checkbox"/> Loan (sovereign) | <input type="checkbox"/> Loan (Private) |
| | <input type="checkbox"/> Concessional loan | <input type="checkbox"/> Debt Swap |
| | <input checked="" type="checkbox"/> Grant | <input type="checkbox"/> Equity |
| | <input type="checkbox"/> Guarantee | <input checked="" type="checkbox"/> Carbon finance |
| | <input type="checkbox"/> FDI | <input type="checkbox"/> 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 | <input type="checkbox"/> \$ (Dollars) <input type="checkbox"/> man/hours |
| F.3.2 Type of required capacity building support | <input type="checkbox"/> Institutional development <input type="checkbox"/> Human capital <input type="checkbox"/> 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