



Marathon 2020 – Community of Bucharest District 1 to be the first energy efficient community in Romania by 2020

Agency for Energy Efficiency and Environment Protection Bucharest [Romania]

Context

The promoter of this project is the Municipality of Sector 1 Bucharest and the final beneficiaries are the residents of Bucharest. Apart from increasing the quality of life of Bucharest residents through energy savings, the project will also help improve the image of the buildings under this programme. The project will help Romania to meet its commitments related to improving energy efficiency, particularly to reach the EU 2020 target. The project is expected to reduce the buildings' energy consumption by around 50% and the total energy saved will amount to approximately 190 GWh per year once the programme is fully implemented.

Description and Main Objectives

This project, endorsed politically and accepted by communities, represents the most ambitious SEAP in Romania, envisaging actions at very large scale. The plan include studies for energy consumption, heating and cooling demand, potential for utilization of RES sources and financing sources with clear targets and objectives.

There are 4 main pillars:

1. Energy Efficiency on public buildings - 140 units
2. Energy Efficiency on residential, private owned buildings - 850 units [developed in two phases, TRP 1 and TRP 2 (Thermal Rehabilitation Program)]
3. Stakeholders motivation and mobilization
4. Innovative financing

Targets to 2020 are:

- RUE: +26.6%
- CO2 emissions: – 24.1%
- RES: +20.1%

Priority area for actions:

- RES integration Buildings (public and residential)
- Urban regeneration
- Town planning regulation
- Education, motivation and mobilization of stakeholders



Bloc 6, Str. Turda, Nr. 119-ante



Bloc 6, Str. Turda, Nr. 119-post



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Implementation Strategy

The District 1 Bucharest Municipality established an Energy Efficiency Agency (2007) with energy experts delivering support in other municipalities too. The AEEPM is responsible for the monitoring and implementation of the Plan.

PILLAR 1

Large scale intervention on all 140 buildings administrated by Local authority:

- 37 schools
- 27 kinder gardens
- 28 high schools
- 4 hospitals
- 23 social services buildings
- 21 administrative buildings
- Performed energy audit for all public buildings.
- Boilers revision and boilers change with more efficient heat installations or connection to municipal centralized distribution system
- Thermal insulation of buildings and double glazing windows in order to improve energy efficiency and upgrade buildings for class G to class B or class A energy efficiency.
- Public debates with other stakeholders in order to multiply the results.

PILLAR 2

Large scale intervention on all 850 residential multi-store apartment buildings:

- The Local Authority develops the planning, financing, contracting and implementation of the TRP;
- Energy auditors evaluate all buildings and suggest measures;
- The Local Authority contracting out the project and construction phase to local SMEs ;
- At the finalization of the construction works, the Energy Auditor perform a new independent energy audit to verify implementation;
- Approximately 80,000 apartments renovated (upgraded from class G to B or A class).

Budget

The project cost 480.000.000€ up to 2016, with an expected Return of investment of 25 years. The European Investment Bank (EIB) loan has financed up to 75% of the programme's investment cost covering thermal rehabilitation, including the thermal insulation of walls, windows, roofs and cellars of multi-family residential buildings with some 20 000 apartments. The additional funding to complete this multi-annual programme will be covered from the Municipality's own funds.

Time Frame

Start date: September 2011 - End: 2020

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