

Energy Efficiency in Public Buildings. Autonomous Province of Vojvodina

VALUE	100,000 EUR
COUNTRY OF OPERATIONS	Serbia
SECTOR OF OPERATIONS	Energy
EXPECTED RELATED INVESTMENT	10 million EUR

BACKGROUND

The building sector is the largest energy consumer in the EBRD region (around 40% of the final energy consumption). It has been one of the key priority areas for the EBRD's climate actions since 2012. The Bank promotes investments in profitable energy efficiency measures in residential, commercial and public buildings.

In this framework, the Autonomous Province of Vojvodina (APV) is committed to increasing the level of energy efficiency and renewable energy and is looking into unlocking the potential for financing energy efficiency in the building sector. There is a strong interest from the municipalities in refurbishing the majority of the buildings as most of the building stock was constructed between 1950 and 1980 and remains in its original state. Improved thermal insulation, solar systems, LED lighting, buildings control, heat recovery and the like are some of the measures that should collectively lead to a projected average energy savings between 30-50%, based on the EBRD's experience in the region.

The EBRD intends to explore the energy efficiency potential in public buildings, across a number of localities in APV, where there are three regions (Backa, Banat and Srem) with 47 municipalities. The aim of the study is to create a comprehensive database of public buildings in all the municipalities, which would include building inventories for municipal, autonomous province and government buildings, analysis of energy consumption as well as recommendations for potential investors for a thermal rehabilitation of identified/selected buildings.

The first part would cover primary schools and pre-school institutions. This would encompass the analysis of 760 facilities (233 primary schools, 404 kindergartens and 123 mixed). The second part would include an analysis of regional government buildings and buildings owned by the APV. The third part would cover health care and social institutions, secondary schools, colleges/faculties and student accommodation buildings. A pilot study has already been conducted for kindergartens and schools in five smaller municipalities in Banat: Bela Crkva, Opovo, Irig, Senta and Bač.

OBJECTIVES

The key objectives of the assignment are as follows:

- Produce a detailed inventory of public buildings owned by the municipalities, autonomous province and state.
- Assess the current state of the public building sector in Vojvodina in relation to energy efficiency, taking into account the various categories and sizes of the buildings.
- Identify and map out the localities and assess the current state of the public buildings in APV in relation to energy efficiency.
- Develop an affordable and bankable strategic investment programme with a long-term perspective according to best applicable technology, availability and replicability.
- Finalise and recommend who could be the potential beneficiaries of such projects, so that they can be considered for potential funding and mobilisation of grants, as relevant.
- Provide an estimate of the total energy saving potential of the identified building stock, achievable through energy efficient refurbishment (based on at least two energy performance scenarios for refurbishment) and prioritise buildings and investments for all the scenarios.