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Interreg Europe



European Union  
European Regional  
Development Fund

## Increasing Energy Efficiency in Baia Mare Municipality



## Increasing energy efficiency in Baia Mare Municipality Maramures County, Romania

### Good Practice of Maramures – on Resource efficiency: Increasing energy efficiency of buildings & public lighting in Baia Mare Municipality



The GP is developed by **Baia Mare Municipality** through 23 EU funded projects implemented within The Regional Operational Program 2014-2020, with the aim of increasing energy efficiency in building sector and public lighting, improving the environmental impact and reducing greenhouse gas emission.





## ***What is the problem addressed and the context which triggered the introduction of the practice?***

The strategic vision regarding energy efficiency identified at the country level the problem of unsustainable energy consumption as well as the high saving potential in public and residential buildings.

Most of the buildings in Baia Mare are characterized by a low degree of thermal insulation and advanced wear and require works on utilities networks and facades rehabilitation.



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Baia Mare Municipality develops 23 projects financed by Regional Operational Program 2014-2020 for improving current energy performance of public & residential buildings, thermal rehabilitation, public lighting and alternative renewable energy systems.





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Baia Mare Municipality obtained European funding for increasing the energy efficiency of 17 public buildings of which 13 schools, 3 social blocks and 1 hospital, with a value of 21 mil. €.





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In addition, 27 residential buildings amounting 11 mil € are being rehabilitated. The works carried out are the thermal insulation of walls thus improving also the aesthetic aspect, new windows with thermal insulation, replacement of heating & hot water distribution system, introducing alternative energy production systems. Another project is the Implementation of the remote management system and public lighting upgrade, with a budget of 2.5 mil. €.





## *Resources needed*

The total value of energy efficiency projects developed by Baia Mare Municipality amounts to approx. **35 million €**, of which 24 mil € EU funds, 4 mil € local co financing and 6.5 mil. €, ineligible funds supported by Baia Mare municipality.

Human Resources: Baia Mare Municipality has specialized personnel with experience in project implementation from all relevant departments (project management, technical, legal, economic and procurement).





## *Results achieved*



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The projects on energy efficiency implemented by Baia Mare Municipality have a positive impact on environmental issues and local architecture, improving the life of its citizens. The rehabilitation of public & residential buildings has influenced:

- Decrease of final energy consumption from non-renewable sources with at least 10%;
- Annual decrease of greenhouse gases, equivalent tons of CO<sub>2</sub>, with 10-40%;
- The decrease of the annual primary energy consumption, in percentage of 30-40%.
- The annual reduction of greenhouse gases after the implementation of the projects is 9816 (tons of Co<sub>2</sub>/year).





## Challenges encountered:



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- ❑ The main challenges are related to legislative changes occurred in the construction sector, such as the modification of the minimum wage limit and
- ❑ The lack of bidders and labour force, that cause the increase of ineligible expenditures and delays in project implementation.





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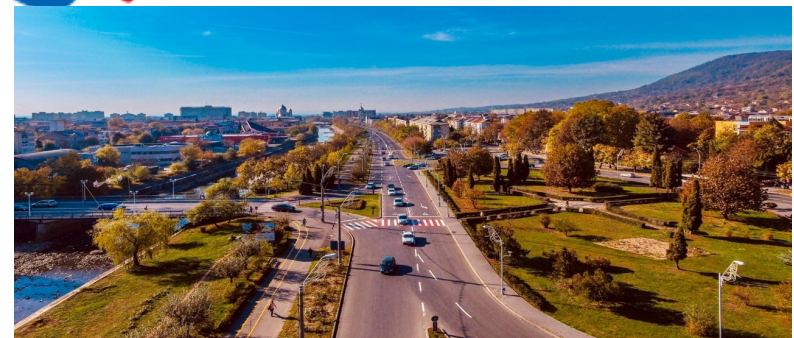
## ***This practice - an inspiration for other actions***

Many cities and regions developed such energy efficiency projects, but the integrated approach of energy efficiency projects implemented in Baia Mare could be scaled and transferred in other regions at EU level.

New projects financed by EU funds could be developed by focusing on increasing the energy efficiency of public lighting and of public buildings, but also on residential buildings, actively involving their inhabitants.



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## Thank you!



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Questions welcome



*Project smedia*