



# MIASTO KALETY



**DESCRIPTION OF THE GRANT**

Through the EEA funds and Norwegian funds, Iceland, Liechtenstein and Norway contribute to reduce social and economic inequality and strengthen bilateral relations with beneficiary countries in Europe. Three countries which strictly cooperate with the EU under the Agreement on the European Economic Area.

In 2009-2014 the value of the funds of the EEA and Norwegian funds amounted to 1.79 billion euros. Norway provides around 97% of total funding. The funds are available to non-governmental organizations, research institutions and universities, the public sector and the private sector in 12 newly acceded EU Member States and Greece, Portugal and Spain. In this framework, there is extensive cooperation with entities from the donor countries, and the project can be implemented by 2016. Key areas for support include environmental protection and climate change, research and scholarships, civil society, health care and support for children, gender equality, justice and cultural heritage.

The project entitled “Efficiency energy improvement of the public building through a complex thermo-modernisation of the City Office in Kalety at ul. Żwirki i Wigury 2” uses the funding in the amount of PLN 765 040.00 coming from Iceland, Liechtenstein and Norway under the EEA funds.



## **Thermo-modernization**

The project covers thermo-modernisation of the City Office in Kalety at ul. Żwirki i Wigury 2 together with replacement of heat source and installation of solar collectors. The project is of a local nature, the Silesian Province, where is municipality Kalety, is a highly industrialized area with rich industrial history.

The results of environmental degradation lasting years are impossible to reverse without infrastructural investments related to the effective management of energy management. The building of the City Office needed executing energy-efficient refurbishment and replacement of heat

sources, because now it is costly to maintain and energy inefficient, and its exploitation generates an environmental problem in the form of excessive emissions of CO2 and other pollutants.

### **The causes of the problem**

- Long-term environmental degradation of the Silesian Province
- Deficiencies in terms of financial resources to carry out comprehensive modernization of thermal management within the municipality
- Unsatisfactory condition of the building due to: the poor state of the facade, tight emission source of heat in the building

The main problem: Unsatisfactory quality of air in the Municipality Kalety

### **The effects**

- The high cost of building heating
- Emissions to the atmosphere
- Inability to provide proper conditions for thermal comfort for building users
- Loss of benefits that could bring resources currently spent on energy

The only action abstention further development of the problem is to eliminate or reduce the amount of pollutants released into the air through the implementation of the objectives outlined in this project, what is a complex thermo-modernisation with replacement of heating sources and assembly of solar collectors. The project covers the following actions: thermo-modernization of the City Office building through: insulation of external walls, insulation of the highest part of the roof, insulation of the lowest part of the roof, replacement of stairwell windows, front door replacement,

- Replacement of heat sources - 2 pieces
- Installation of solar collectors - 4 pieces
- Information and promotion
- Investor supervision
- Project management

The overall objective of the project is to improve energy efficiency in the City Office building in Kalety and increase of energy production from renewable sources.

The overall objective of the project is directly in line with the objectives of the operational program PL 04 "Saving energy and promoting renewable energy sources (RES)" within the framework of the EEA Financial Mechanism 2009-2014, and any action taken thereunder will contribute to the achievement of the program objectives. The long-term and overarching goal of the project is to reduce greenhouse gases and air pollution in the Municipality Kalety.



Leaflet

**The sub-goals of the project:**

- Reducing the cost of maintaining the City Office building
- Improvement of aesthetics and ergonomics of the object
- Reduction of low emissions

The outcome indicators of the project are:

- The number of public buildings retrofitted - 1 pc.
- The number of replaced/ modernized heat sources -2 pieces.
- Total RES (installed machines, equipment or installations using energy from renewable sources) - 4 pieces.
- Newly installed capacity of renewable energy sources within the project - approx. 8 kW (0.00786 MW)

**The results of the project:**

- 1 887.47 m<sup>2</sup> of insulated partitions
- 4 pcs. / 63 m<sup>2</sup> of replaced window frames
- 4 pcs. / 15,34 m<sup>2</sup> of replaced door woodwork
- 2 pcs. of internal installations (c.o. and c.w.u)
- 4 pcs. / 9.82 m<sup>2</sup> of solar collectors

- 2 pcs. of heat source (boilers)

The project will allow to fully meet diagnosed needs of the thermo-modernisation of the building, replacement of heat sources and increase of energy production from renewable sources. The potential to continue the project activities should be sought in the implementation of investment plans covering thermos-modernization of subsequent public buildings in Kalety. The project will operate in the long term period. Within 5 years from the project settlement, any significant adjustments for its original purpose will not be made. No values acquired during the project will be transferred. The municipality will bear costs associated with the maintenance and operation of project products from the funds for maintenance of object infrastructure. The technical durability of the project will be achieved by providing high-quality workmanship investment. Quality standards and criteria relating to created products will be met.

### **Innovativeness of the project**

Size of averaged annual rate of final energy demand for air temperature controlled rooms [kWh / (m<sup>2</sup>year)]

- Before thermo-modernisation: 717.3
- After thermo-modernisation: 177.1
- Difference: 540.2

The energy supplied to the building net (kWh / year)

- Before thermo-modernisation: 1 461 735
- After thermo-modernisation: 360 905
- Difference: 1 100 830

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The project title:

“Efficiency energy improvement of the public building through a complex thermo-modernisation of the City Office in Kalety at ul. Żwirki i Wigury 2”

Total value of the project: **PLN 1 103 990.00**

The value of the grant from FM EEA : **PLN 765 040.00**

Beneficiary: Miasto Kalety

Information about the EEA Grants and Norwegian funds.

