

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



# EEA Grants

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

Miasto Kalety  
20 July 2015

### THE GENESIS OF THE PROJECT.

- July 2014 - announcement about the call for proposals in the framework of the EEA funds 2009-2014 for the Operational Programme PL04 Energy saving and promoting renewable energy sources.
- August 2014 – development of:
  - a) the construction project of insulation with the colour of Kalety City Office building
  - b) the construction and executive project of electricity branch - lightning protection
  - c) the thermo-modernization project of Kalety City Office building - renovation of the heating system
  - d) the development project of renovating and rebuilding a coal boiler with a solar system and domestic hot water
- 2 September 2014 - the submission of an application for a building permit to the District Office in Tarnowskie Góry, Poland
- 3 September 2014 - the decision on building permit
- 15 September 2014 - submission of the application 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” to NFOŚiGW
- 16 March 2015 - information about obtaining financing

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- 30 April 2015 - call for tenders for the investment execution
- 5 June 2015 - selection of the contractor
- 16 June 2015 - signing of an agreement for the task
- 22 June 2015 - start of the investment

## EEA Grants

### Financial Mechanism of the European Economic Area 2009 -2014

A non-refundable financial support for Poland as two instruments under the name: **the EEA Financial Mechanism and the Norwegian Financial Mechanism** (commonly known as the **Norwegian funds**) comes from three countries belonging to the EFTA (European Free Trade Association), which are also members of the EEA (European Economic Area), i.e. Norway, Iceland and Liechtenstein.

The consequence of Polish membership in the European Union was joining **The European Economic Area (EEA).**

Under the EEA Enlargement Agreement of 14 October 2003 set up the financial support for the countries of the European Free Trade Association (EFTA), the EEA countries - and thus benefiting from the opportunities offered by the EU internal market - for the least prosperous EU countries, including Poland. In October 2004, Polish government signed two agreements that allow the use of additional, next to the Structural Funds and the Cohesion Fund of the European Union, sources of foreign assistance: **the Memorandum of Understanding on the implementation of the Financial Mechanism of the European Economic Area and the Memorandum of Understanding on the implementation of the Norwegian Financial Mechanism. The donors are three EFTA countries: Norway, Iceland and Liechtenstein.**

Both Mechanisms are covered by the same rules and procedures and subject to a single management system and implementation in Poland. Currently, a coordinating role in this regard - as the National Focal Point – has the Ministry of Regional Development. Implementation of the Financial Mechanisms in Poland is based on Regulation on implementation of the EEA Financial Mechanism and the Norwegian Financial Mechanism, taking into account the guidelines prepared by the donor countries.

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.**

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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.

## EEA Grants

### Operational Programme PL04 entitled "Saving energy and promoting renewable energy sources"

Under the Operational Programme PL04 entitled  
"Saving energy and promoting renewable  
energy sources" defined two program areas:

#### Programme area No. 5 "Energy Efficiency"

- promoting energy savings through thermal modernization projects (including replacement of lighting built-in) and the possibility of replacement of existing, often obsolete energy sources supplying the above thermos-modernised buildings with modern ones including using energy from renewable sources (RES).

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**Programme area 6 “Renewable Energy”**

- including the modernization or replacement of existing heat sources, including modernization of the combustion process or using another energy source (e.g. combustion of gas, oil or biomass by eliminating coal) - projects carried out by businesses.

For the grant from the EEA Financial Mechanism may apply public sector entities and private entities performing public tasks.

**For the funding qualify the projects designed to:**

**Improving the energy efficiency of buildings**, including by their scope thermo-modernization of public buildings for the needs of public administration, education, health, welfare or social care, higher education, science, tourism, sport.

**Modernization or replacement of existing energy sources** (with the replacement or reconstruction of obsolete local area network) that supply public buildings with modern, energy-efficient and environmentally friendly sources of heat or electricity.

From the total budget of **EUR 144 150 000** for support of projects implementation allocated **EUR 136 357 375**. The remaining funds earmarked for strengthening bilateral cooperation and program management.

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**PROJECT:**

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

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.

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The Silesian Province, where is municipality Kalety, is a highly industrialized area. 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 CO<sub>2</sub> and other pollutants.

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

**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 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.

**The project includes the following activities:**

- Thermal efficiency improvement of the City Office building inter alia: 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.**

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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.**

**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.

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**The completion date of the project is scheduled for April 2016.**

**The results 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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## VISUALIZATION OF THE CITY OFFICE BUILDING IN KALETY



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**THANK YOU FOR YOUR ATTENTION**