

Thermo-modernization of the complex of buildings in the School of Economics in Tczew Pomeranian Voivodeship, Poland



Building of boarding after thermo modernisation



School of Economics after thermo modernisation



Location(s) / Map



Summary

Program name:

The Pomorski Regional Operational Programme, year 2007-2013

Priority Number and name:

Environment and energy friendly to the environment

Aims and Objectives of this Sustainable Energy Action

The project covers thermo-modernisation of two objects in the School of Economics in Tczew.

Estimated energy consumption after thermo-modernisation will reach 61,8 (toe/year), what means savings of thermal energy at the level 46% annually. Additionally to wall insulation, on a boarding building the solar collectors will be installed. The investment results in energy savings of 4,2 (toe/year).

Scope of investment in each building includes the following works:

- School building: –insulation of external walls – insulation the roof – exchange of windows.
- Building of boarding: – insulation of external walls – insulation the roof - replacement of windows except the kitchen and dining room - modernization of heating systems –upgrades of DHW system - including installation of solar collectors.

In addition, dissemination/promotion and education campaign for the staff and school energy manager has been run.

Results and Impacts

Project outcomes in terms of ENNEREG's performance indicators

- Start Date: **20.12.2010**
- End Date: **30.07.2011**

Cumulative investment made by stakeholders in sustainable energy (kEuro)

- Renewable energy production: **61,8 (toe/year)**
- Primary energy savings: **– 46%**
- Reductions of greenhouse gas emissions: **121,88 (t CO₂e/year) – 48,8%**

Cost-benefit analysis:

- **Savings 10182 (€/year)**

Other relevant project outcomes /impacts:

- **education**
- **solar energy**

Technical and Financial Implementation

Value of project:

- **373 028 28,1 €**

The project funded by:

- **50% - European Regional Development Fund – 154 266 €**
- **50% - own contribution - 154 266 €**

The Partners and Stakeholders

- Staroste of Tczew District – owner buildings
- BAPE – energy audit
- Designer – Architectural Studio Archi-Cad, Jacek Szczęsny
- Builder - ZUH Sław-Bud, Sławomir Strzałkowski

Lessons Learnt

- Gained experience in raising funds – the first such investment in Tczew Poviát
- Obstructions – too short time to prepare the investment: develop documentation, selection of construction company
- Factors of success – a large mobilization at each stage of preparation and realization of investments by Poviát officers



Building of boarding before thermo - modernisation



School of Economic before thermo - modernisation

How this Action could be Replicated

This action could be replicated at the planning and implementation stage of thermomodernization investment: experience gathered how to apply for financial support, how to organize smooth construction process can be utilized and transferred to other regions.

ENNEREG Contact



BAPE - Baltycka Agencja Poszanowania Energii SA
ul. Budowlanych 31
Gdansk 80-298
Poland
e-mail: bape@bape.com.pl
Katarzyna Grecka, ENNEREG Project Partner for Pomerania

Further Information

Tczew Poviát

Websites: <http://fundusze.powiat.tczew.pl>

Tel: +48 7734-938

e-mail: fundusze@powiat.tczew.pl

Paweł Filar, Head of the Dept. of European Funds