

**GOOD PRACTICE**

**ecoregion**

Developing the BalticSeaRegion into the world's first EcoRegion

## Measurement and reduction of energy consumption

The main goal of the “energy saving pig” is to make pupils / teachers conscious of their energy use. It is based on a cooperation between Trondheim county and its schools. Pupils measure the schools' energy use and publish the results on a website. They may compete on energy reduction results. Knowledge about energy consumption and energy sources is a main learning result.

### Issue

Enova, a public enterprise owned by the Royal Norwegian Ministry of Petroleum and Energy, provides Trondheim County with the funding for the project “Energy management for building owners”. The project includes a plan for energy saving initiatives, as well as teaching of technical staff and end-users. In this context, the energy saving pig project was initiated for county schools, pupils, teachers, principals and staff.

### Application

21 schools and 31 kinder-gardens in the county participated in 2008/ 09 in the project, which is still ongoing. The project is linked to the national curriculum and may be used in teaching on energy and sustainability. Math, computer science, natural- and social sciences may use the energy saving pig project for teaching, but it is particularly relevant for natural sciences.

Through scientific methods, the pupils get interested in energy usage in their schools and analyze energy consumption on the basis of weather reports. An overview of the different energy sources in the schools is produced and an energy registration system provides systematic information. In the kindergardens, learning activities as “dark days” and “energy police” increase the awareness on energy usage.

Through the first 4 months of 2009 the 13 most active energy saving schools saved 6,5% energy (320 000 kWh). This is comparable to the energy use of 16 villages in Norway.

The teachers noticed an increased awareness amongst the pupils on energy use, and especially a great creativity in finding methods for saving energy.

The schools also reported that the pupils engaged in reducing energy consumption in their homes.

### Innovation

The cooperation between the county schools and the county management on energy saving issues is innovative. The pupils experienced that their individual actions and choices lead to concrete results: the reduction of energy use.

### Transferability

Schools at all levels, as well as council management can benefit from this project.

### Trondheim, Norway



### Environmental type

Urban, Wetlands

### Funding Sources

Enova (= public enterprise owned by the Royal Norwegian Ministry of Petroleum and Energy)

### Starting Year

2005

### Contact

Trondheim kommune,  
7004 Trondheim,  
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### Links

» [www.trondheimenergi.no](http://www.trondheimenergi.no)  
» [www.miljolare.no](http://www.miljolare.no)

### Keywords

- Education
- Energy reduction
- Cooperation
- Participation



**Baltic Sea Region**  
Programme 2007-2013

The EcoRegion project is part-financed by the European Union (European Regional Development Fund)