

## The Top Environment for Comprehensive Research of Renewable Energy

Lahti continues to invest in the research of environmental technology. The most recent investment is Energon, the clean energy research center of international scale, opened in spring 2010. Energon invites all players in the sector to use its facilities. Companies, universities, institutes and research centers are all welcome – either alone or together.



**E**nergon offers excellent setting for comprehensive research of renewable energy and energy efficiency, as well as for piloting of new technologies. One of the primary targets of Energon is the development and commercialization of environmentally-friendly products. The clean energy center is set to develop liquid, gaseous and solid biofuels, and has equipment suitable for utilization of solar energy, ground source and air-to-water heat pump solutions and hybrid solutions, among other things.

Energon can be proud of its unique measuring systems of ground source and air-to-water heat pumps. These systems produce very advanced data of the pumps' function. The wide range of different types of boilers and burners as well as separate containers for e.g. bio-oils enable efficient research and product development. Also it is possible to run the burner installation partly unmanned.

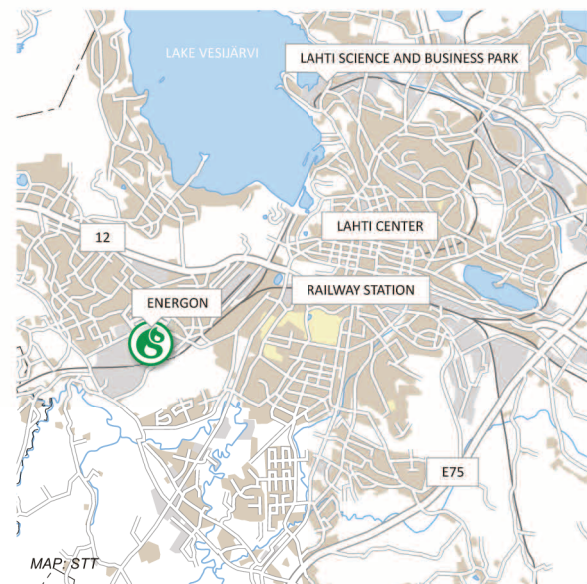
The clean energy center was accomplished by Lahti Science and Business Park Ltd together with Lahti University of Applied Sciences, both being also sponsors of the project. The project also got significant funding from the EU Regional Development Fund through the Regional Council of Päijät-Häme.

### In Energon one can research, among others:

- The quality and burning properties of bio-oils
- The quality and burning properties of bio-gas
- Solar energy solutions
- Ground source and air-to-water heat pump solutions
- Energy efficient boilers and burner solutions
- Bio-oil burners
- Bio-gas burners
- Particulate-, NOx-, and other emissions

### Energon's facilities and equipment:

- Heat pump laboratory
- Boiler rooms for large (6 pcs, 100–2,500 kW) boilers and small (6 pcs, 17–125 kW)
- Possibilities for installing new type of boilers
- Fuel storages
- Solar collectors (total area 14.4 m<sup>2</sup>)
- Storages for equipment and auxiliary premises
- Working stations for researchers
- Conference rooms and social facilities
- Technical facilities



### Address:

**Clean Energy Center Energon**  
Metsä-Pietilänkatu 4  
FI-15800 Lahti, Finland  
[www.energon.fi](http://www.energon.fi)

### For hiring the facilities of Energon, please contact:

**Leif Ekholm**  
+358 50 518 4444  
[leif.ekholm@lahtisbp.fi](mailto:leif.ekholm@lahtisbp.fi)

