



The Oekoenergie-Cluster (OEC) is the network for companies active in renewable energy and energy efficiency in Upper Austria. The network has around 150 partner companies which employ more than 6,200 people and achieve an annual turnover of 1.7 billion Euro. The cluster is managed by the O.Ö. Energiesparverband, the energy agency of Upper Austria. Thanks to a comprehensive energy action plan, renewable energy covers 33 % of the primary energy demand in the region. By 2030, all electricity and all space heating will be produced from renewable energy sources.

Technology and product innovation

The following products and projects were awarded with the "EnergieGenie2010" (Energy Genius), a prize for new, innovative and sustainable products and heating solutions. This award is presented by the National Ministry for Environment and the Upper Austrian regional government at the occasion of the annual "Energiesparmesse", one of Europe's leading sustainable energy trade shows which attract 100,000 visitors annually. We are proud to announce that five partner companies of the OEC were awarded with the Energy Geniuses of 2010.



"Pellematic Smart" from ÖkoFEN

The new pellet boiler "Pellematic smart" from the company ÖkoFEN combines a stratified storage tank, a condensing pellet boiler module and all necessary hydraulics in one system. The new product is especially suitable for lowest energy and passive homes, as it has a capacity of only 3.9 kW, the space needed is 1.5 m². The innovative condensing boiler technology ensures very high efficiency and very low emissions. The boiler can be fed automatically or manually.

OEC-Link: [ÖkoFEN Pellet heating](#)



Pellet boiler "VarioWin" from Windhager

Due to its innovative feeding system, the new pellet boiler "VarioWin" can be installed anywhere in the house. The boiler has a very compact design, only needs 0.5 m² space and can be operated independently from the ambient air. It is also possible to combine all hydraulic components into the appliance and therefore presents a very economic solution for heat production in low energy buildings.

OEC-Link: [Windhager Zentralheizung](#)



A pellet boiler which can be mounted on the wall by Guntamatic

Guntamatic has developed a very compact pellet appliance which is small and light enough to be mounted on a wall. The pellet device has only 150 kg and is 50 cm deep. It has very low emissions and an efficiency of more than 95 %. The pellet appliance includes a patented cyclone combustion system with a capacity range between 2 – 7 kW and is therefore especially suitable for low energy and passive buildings, pre-fabricated and refurbished homes.

OEC-Link: [Guntamatic](#)



"SOLrose" solar thermal panel from SOLution

The new solar thermal panel from SOLution allows for a higher light incidence and has a conversion factor of more than 80 %. It has one homogeneous surface when installing several panels next to each other which also enables better self-cleaning. The panel is produced by using modern welding and adhesive technology. Through its cone-shaped size the same mounting system for crane or hand mounting can be used.

OEC-Link: [SOLution Solartechnik](#)



An energy independent farm building

The HVAC installer Muggenhumer received the "Energy Genius" award for this 100 % renewable farm building:

- a 25 m² solar thermal system for hot water production and heat support
- a high-efficiency, fully automatic 35 kW wood chip heating system (using wood from the owner's forest)
- a controlled heat recovery system
- a 4.68 kW photovoltaic system
- triple glazed windows
- ecologic insulation materials such as bales of straw and perlites
- high efficiency heat circulation pumps

OEC-Link: [Muggenhumer Energiesysteme](#)



International activities of the OEC



OEC goes USA

Several of the OEC partners are currently starting their market activities in the United States, some of them have already formed partnerships with US companies or founded subsidiaries:

- ÖkoFEN (pellet boilers) www.okofen-usa.com,
US partner Northeast: Maine Energy Systems
www.maineenergysystems.com
- Fröling (biomass boilers),
US partner: BioHEAT USA www.woodboilers.com
- Solarfocus (biomass boilers),
US partner: WoodMaster www.woodmaster.com
- Guntamatic (biomass boilers)
- SOLution Solartechnik (solar thermal panels)
- Sun Master Energiesysteme (solar thermal panels)
- GASOKOL (solar thermal panels)
- Energiewerkstatt (wind energy solutions),
subsidiary EWS Consulting Corp., USA
www.ews-consulting.com

International training seminar on biomass heating in Upper Austria, 15-17 Sept. 2010



The O.Ö. Energiesparverband will organise an international training seminar on "Biomass heating – market development and technologies" between 15 - 17 September 2010. The seminar is especially meant for representatives of businesses, public bodies, institutions, NGOs etc. from countries where the market for automatic biomass heating is in an early stage. The 3-day seminar will provide know-how on local market development and technologies for automatic biomass heating systems, based on the experience in Austria.

OEC-Link: Oekoenergie-Cluster



World Sustainable Energy Days & European Wood Pellet Conference 2010



The international conference World Sustainable Energy Days, held from 3 to 5 March 2010 in Wels/Austria, was again a great success with over 750 participants from 51 countries. The WSED, organised by the O.Ö. Energiesparverband included the European Pellet Conference, the largest annual pellet conference in the world.

The World Sustainable Energy Days 2011 will take place from 2- 4 of March 2011 in Wels.

OEC-Link: [World Sustainable Energy Days](#)

OEC at Intersolar Europe and North America



For the first time, the Oekoenergie-Cluster will organise a group stand at an exhibition in the USA. Three companies will present their innovative solar thermal technologies at the Intersolar North America, which will take place from 13 to 15 July 2010 in San Francisco.



Visit us at booth 7511 at the Moscone West Convention Center, Level 1!

The Oekoenergie-Cluster will also be present from 9 to 11 of June at the Intersolar Europe in Munich.



News from Upper Austria

Upper Austria doubled the home renovation rate



In Upper Austria, the housing sector is traditionally supported by public programmes. In 2009, a special impulse was put on home renovation: 7,000 one-family homes were renovated, nearly doubling the numbers of the years before.

The average energy performance indicator for heating was decreased from 242 to 61 kWh/m²a. The renovation measures led to annual energy savings of about 300 GWh and CO₂-savings of about 100,000 tons/a.

Exchanging heating circulation pumps



In Upper Austria, recently a programme for exchanging inefficient heat circulation pumps was successfully carried out. The programme provided a financial support for the exchange of old heat circulation pumps (100 Euro per pump), supported by promotional activities (training courses, support to installers, online tool for homeowners etc.). During 3 months, more than 6,400 pumps were exchanged. In average, the installed capacity of the circulation pumps was reduced from 86 to 34 Watt per home. The public expenditure of 64,000 Euro resulted in total annual energy savings of about 1.33 million kWh.

O.Ö. ENERGIESPARVERBAND *Energy Academy*

Energy Academy - training programmes along the value chain



A sustainable energy economy requires a highly skilled work force. With its "Energy Academy", the O.Ö. Energiesparverband offers a wide range of training programmes for different target groups, ranging from producers of sustainable energy technologies to those in charge of planning and installing them to those responsible for their use and maintenance.

In 2009, there were 5,326 participants in 28 training courses and 12 information events.