

The **Oekoenergie-Cluster (OEC)** is the network of companies active in renewable energy and energy efficiency in Upper Austria, one of the nine Austrian regions. The network includes 160 companies which employ more than 7,300 people and achieve an annual turnover of 1.8 billion Euro. The cluster is managed by the O.Oe. Energiesparverband, the energy agency of Upper Austria, with support by the regional government of Upper Austria. Thanks to a comprehensive energy action plan, renewable energy covers 34 % 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



New ETA TWIN combined boiler

ETA improved its combined pellet and logwood boiler. The new ETA TWIN comes with

- a large fuel chamber (for ½ m logs)
- a speed controlled draught fan
- a pellet burner with rotary grate
- lambda control and several other new features

OEC-Link: [ETA Heiztechnik GmbH](#)



ÖkoFEN electricity generating pellet boiler for homes

ÖkoFEN is busily working on the development of an electricity-generating pellet boiler for private homes for serial production. The small CHP plant works with a stirling engine integrated in the pellet heating system. It delivers 1 kW of electrical energy and can cover the majority of the daily electricity consumption in a household. The stirling engine has low noise and emission levels and is CO₂-neutral when operated with biomass.

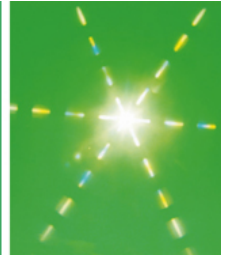
OEC-Link: [ÖkoFEN Pelletsheizung](#)



Sunlumo: One World Solar Collector

Sunlumo has finalised its concept for its "One World Solar Collector". The innovative product is made of 100 % plastics. It can be produced cost-effectively, it is very light-weight, easy to mount and recyclable. Sunlumo is inviting investors to get involved in the implementation of this research and development work. In cooperation with a leading European mechanical engineering company, they are granting licenses for the production.

OEC-Link: [Sunlumo Technology GmbH](#)



Pauat: Energy efficient refurbishment

Pauat, an innovative architectural company, renovated a townhouse which they are now using as their new office. The energy autonomous building meets the passive building standard, has 18 m² vacuum tube collectors, 3 x 4,7 kWp photovoltaics and ground water use for cooling. The project was supported by the regional government of Upper Austria.

OEC-Link: [Pauat Architekten ZT GmbH](#)



GHE opens modern turbine production hall

Global Hydro Energy, a manufacturer of turbines for small hydro power plants, celebrated the opening of their new production hall and customer center. They invested 6.5 Mio. Euro. In addition to the enlargement of the production site, GHE also upgraded their machinery. The export share of GHE is 85 %.

OEC-Link: [GLOBAL HYDRO ENERGY GmbH](#)



New Hoval BioLyt (110 – 150 kW)

Hoval expanded their product range and presented the boiler series BioLyt in an enlarged power range (110 – 150 kW). With its very limited space requirements, the BioLyt is sure to find space in any plant room. The boiler body, trim and controls are delivered separately and mounted on site in a few steps.

OEC-Link: [Hoval GmbH](#)



Gilles: Heating control via mobile phone & touchscreen

Gilles developed a new feature for their pellet and wood chip heating systems: the "Touch mobile". Using a smartphone or a touch-pad it is possible to control and monitor heating systems from 12.5 to 320 kW. It also allows programming and updating of the heating system with USB-sticks. In case of disturbances or failures, the user (and if so wished also the service provider) is automatically notified.

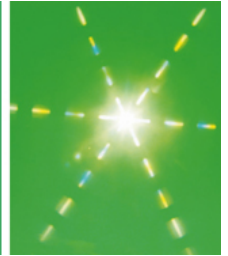
OEC-Link: [Gilles Energie- und Umwelttechnik GmbH & Co KG](#)



NEURA: Multi-functional air source heat pump

NEURA presented the new NDA@NANO air source heat pump as a multi-functional device which can be used for heating and cooling. It does not require much space and it is possible to set it up as a split installation or a compact hook-up unit in the garden. Together with investor CPE, Neura is planning the enlargement of their production site in Regau.

OEC-Link: [Neura Electronics GmbH](#)



Guntamatic enlarges production facilities

Guntamatic Heiztechnik has implemented the next step in improving its production site: enlarging the fully automated sheet metal manufacturing and combining it with a driverless transport system, Guntamatic continues to ensure high quality production. Guntamatic biomass boilers and buffer cylinders are manufactured in Peuerbach, Upper Austria, and distributed all over Europe.

OEC-Link: [GUNTAMATIC Heiztechnik GmbH](#)



Windhager presents new range of heat storage tanks

Windhager, a manufacturer of boilers and storage systems, presents its new range of heat storage tanks. The AccuWIN series comes in different designs:

- classic heat storage tank AccuWIN (825, 1,000 and 1,500 l)
- solar heat storage tank AccuWIN Solar (825 and 1,000 l)
- combined storage with integrated freshwater module AccuWIN Aqua (800 and 1,000 l)

Innovative charging and connecting technologies allow for a more efficient use of solar energy. Additionally, the storage tanks allow for cascade use to increase their performance.

OEC-Link: [Windhager Zentralheizung GmbH](#)

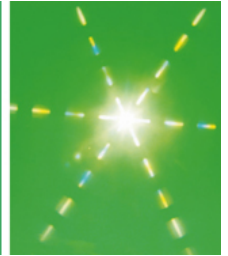
International activities of the OEC



International delegations in Upper Austria

In 2011, Upper Austria was again a hotspot for professional visitors interested in sustainable energy market development: 17 international business delegations from 4 continents - many European countries, but also from the USA, South Africa and Japan – visited Upper Austria and the OEC in 2011 to learn more about the region's activities in the fields of renewable energy and energy efficiency. The OEC organised seminars and site-visits for more than 200 visitors focussing on biomass heating, low or zero energy buildings and other topics of interest.

OEC-Link: [OEC website](#)



World Sustainable Energy Days 29 Feb – 02 March 2012

The World Sustainable Energy Days, one of the largest annual conferences in this field in Europe held annually in Wels/Upper Austria, offer a unique combination of events on sustainable energy:

- [European Pellet Conference](#), 29 Feb – 01 March
- [Nearly Zero Energy Buildings Conference](#), 01-02 March
- [Conference WSED next!](#), 29 February
- [Conference Energy Efficiency Watch](#), 01 March
- [Conference Biomass Partnerships](#), 01 March
- [B2B-Meetings](#), 01 March
- [Technical site-visits](#), 28 February & 01 March
- [Trade show "Energiesparmesse"](#), 29 February – 04 March

Online registration and more details at www.wsed.at



Gasokol goes to Brazil



Sao Paulo is Gasokol's first destination for distributing their solar collectors in South America. 10 thermosiphon collectors "heatPipe INOX 110" were recently delivered to Brazil. Gasokol will use this first step in the South American market and expand in cooperation with local partners. The thermosiphon system produces hot water requiring very little outside energy. Systems are easy to install.

OEC-Link: [GASOKOL GmbH](#)

Fronius activities in the USA



Fronius presented their comprehensive product ranges of grid-connected inverters, system monitoring and the Fronius service partner programme at the Solar Power International in Dallas, the largest conference and exhibition on solar energy in the USA. All products and services offered in the USA are especially adjusted to the needs of the US market.

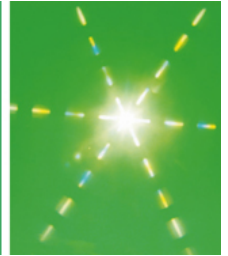
OEC-Link: [Fronius International GmbH](#)

A Hargassner boiler for Tokyo



Hargassner sold its first wood chip heating boiler to Japan. The 100 kW boiler heats a sports facility in a park in the Tokyo district of Shinagawa and is combined with a solar biomass drying facility. Hargassner exports more than 60 % of their products to more than 20 countries worldwide. Most important export markets for Hargassner are Germany, France, Italy and Switzerland, but also include for example New Zealand.

OEC-Link: [Hargassner GmbH](#)



CONA: Solar drying of fruits in Uzbekistan

CONA Solar Austria is a manufacturer of solar air collectors used for drying fruits, herbs or biomass. So far they have installed solar drying facilities on 4 continents which are used for drying more than 100 different products. Now CONA is taking its first steps in Central Asia: 460 m² CONA solar air collectors are providing energy for the drying of organic fruits, mainly distributed in Europe. Due to its modular design, the dimensioning of such a facility is very flexible.

OEC-Link: [CONA Entwicklungs- und Handelsgesellschaft mbH](#)



Heliopan energy facades in Australia

Kreuzroither manufactures and distributes energy façade systems. Together with a distribution partner, they presented their Heliopan energy facade system at the Clean Energy Week in Melbourne. At Australia's largest solar event more than 130 exhibitors with more than 2,000 international delegates participated.

OEC-Link: [Kreuzroither Metallbau GmbH](#)



Large SOLARFOCUS woodchip boiler in UK

Solarfocus system partner "Oxford Renewables" installed a 120 kW woodchip heating boiler in "Braziers Park" in County Oxfordshire, Great Britain. Two cascade woodchip boilers (2 x 60 kW) together with a 3,000 l buffer storage provide heat for the main and two subsidiary buildings. Solarfocus' products dispose of the Microgeneration Certification Scheme (MCS), the ETL certificate (Energy Technology List) and fulfil the requirements of the Clean Air Act.

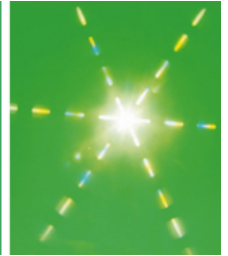
OEC-Link: [SOLARFOCUS GmbH](#)



Ing. Aigner: 2 biomass heating plants in Slovakia

Ing. Aigner Wasser-Wärme-Umwelt-GmbH, a biomass contracting specialist, constructs 2 biomass heating plants in Slovakia. The district heating system in Presov is enlarged by installing a 8 MW wood chip heating facility including a hot water boiler. In Nove Zamky, the existing district heating (83 MW installed capacity) is extended by a 6 MW wood chip heating system.

OEC-Link: [Ing. Aigner Wasser-Wärme-Umwelt-GmbH](#)



Review: Internat. Training Seminar "Biomass Heating"

18 participants from four continents (from Japan, South Africa, Canada, the USA and several EU countries) attended a 3-day international training seminar in Linz/Austria which provided information and know-how on local market development and technologies for automatic biomass heating, based on the experience in Austria. It focussed on small- and mid-scale projects, fuelled by wood pellets and wood chips. The next international training seminar on biomass heating is scheduled for September 2012.

OEC-Link: [Int. Training Seminar Biomass Heating](#)



Review: Cluster Manager Days in Upper Austria

The OEC successfully organised Cluster Manager Days in Linz/Austria as a part of the Europe Innova project "Eco-Innovation Cluster Partnership for Internationalisation and Growth (EcoCluP)". 15 cluster managers with a strong environmental portfolio from Europe and Canada met to discuss practical issues in workshops and strategic exchange sessions. The Cluster Manager Days were a good opportunity to meet peers and exchange experiences in the field of eco-innovative business.

OEC-Link: [Cluster Manager Days](#)

News from Upper Austria



Online OEC database of products and services

The Oekoenergie-Cluster (OEC) is Upper Austria's network of green energy and energy efficiency businesses. On the website of the OEC a database of all products and services of these partner companies is available. By simply clicking on a topic, the database provides a list of all businesses offering the specific product or service.

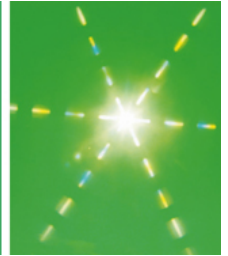
OEC-Link: [OEC partner & product search](#)



Sustainable energy strategies for Upper Austrian Municipalities (E-GEM)

The Upper Austrian E-GEM programme supports municipalities in decreasing their energy costs and protecting the climate and environment. More than 200 of the 444 Upper Austrian municipalities already participate in the programme. In the 2011 E-GEM networking event, more than 200 participants learnt about energy contracting possibilities for municipalities, energy-efficient public buildings and new technologies in street lighting.

Link: [E-GEM](#) (in German)



Regional programme: PV for schools

A new regional programme in Upper Austria supports the installation of photovoltaic systems in schools by subsidising up to 75 % (max. 3 kW) of the costs. Only 6 months after the programme launch, more than 280 schools have registered. The programme also includes a range of additional measures: boxes for PV training, training seminars for teachers, events and a comprehensive database on electricity production and school activities.

Link: www.pv-schule.at (in German)



Solar Process Heat (So-Pro) – EU project successfully completed

In the framework of Intelligent Energy Europe (IEE) the O.Oe. Energiesparverband coordinated the project "Solar Process Heat".

- 6 European Regions were part of the project
- 9 pilot projects were supported
- 173 persons were trained in solar process heat
- checklists and guidelines for interested companies were set up

Link: www.solar-process-heat.eu



Review: OEC Women – Green Jobs for Women

A networking event "OEC Women – Green Jobs for Women" for female entrepreneurs, managers and students was successfully organised. Among the 75 participants were students from 8 universities and 20 different fields of study as well as entrepreneurs and managers presenting their businesses and own professional careers. The event aimed at establishing contacts, giving an overview of the industry and exchange career opportunities and strategies. Keynote speaker and moderator of the event was Hanne May, editor-in-chief of "neue energie / new energy".

OEC-Link: [OEC Women – Green Jobs for Women](#) (in German)



Review: OEC annual assembly & 10-year-award

At the occasion of the annual OEC assembly, partners who joined the network more than 10 years ago, received an award. The OEC is proud of the developments in the last 11 years:

- So far, more than 160 partner companies have joined the network.
- In 2011, the OEC partner companies employed more than 7,300 people and achieved a total turnover of more than 1.8 billion Euros.
- The OEC partner companies are successfully exporting to 70 countries worldwide.

OEC-Link: [OEC Cluster Profile \(pdf\)](#)