European Energy Efficiency Conference 2022

7 - 8 April 2022
Wels, Austria

HYBRID EVENT

2022:
Energy efficiency – full speed ahead!

Conferences:
- Energy Efficiency Policy Conference
- Industrial Energy Efficiency Conference
- Smart E-Mobility Conference
- Young Energy Efficiency Researchers Conference
- Innovation Workshops

www.wsed.at
Programme overview

**Energy Efficiency Policy Conference**
Fit for 55 • New EU Directives • EE Markets • Energy Efficiency Watch

**Industrial Energy Efficiency Conference**
More decarbonisation, better business: “Twin Transition” • Innovation

**Innovation Workshops**
New research results on buildings and technologies

**Young Energy Efficiency Researchers Conference**
Presenting the work of young energy researchers • Best Young Energy Efficiency Researcher Award

**Smart E-Mobility Conference**
Mass rollout: Infrastructure • Technology trends • Business models

**Poster Presentation**
Displaying energy projects, products and EU project results to international experts

**Tradeshow**
Leading tradeshow (Webuild-Energiesparmesse) • Energy efficiency and renewable product innovations in real life

With the World Sustainable Energy Days, Upper Austria is the meeting place for the energy transition. Europe has set itself the ambitious target of becoming the first climate-neutral continent. We present and discuss solutions to practically implement the Green Deal. With highly-efficient and renewable energy systems, we will achieve economic growth, create new jobs and make the energy transition happen!

Markus Achleitner, Regional Minister for Economy and Energy, Upper Austria

---

**Timetable**

<table>
<thead>
<tr>
<th>Event</th>
<th>On-site Event</th>
<th>Online Event</th>
<th>Tuesday 5 April</th>
<th>Wednesday 6 April</th>
<th>Thursday 7 April</th>
<th>Friday 8 April</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Pellet Conference</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>European Energy Efficiency Conference</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Efficiency Policy Conference</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industrial Energy Efficiency Conference</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smart E-Mobility Conference</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young Energy Researchers Conference</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Innovation Workshops</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poster Presentation</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tradeshow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

NEW in 2022

- Fit for 55
- Speeding up efficiency
- The new EU directives
- Energy Communities
- Meet2Talk
FIT FOR 55:
Energy Efficiency – full speed ahead!
The new "Fit for 55" package aims to put the EU on track towards climate neutrality. Energy accounts for 75% of GHG emissions. Speeding up energy efficiency is critical!

In 2022, the European Energy Efficiency Conference presents the farreaching transformation of policies, technologies and markets for achieving climate neutrality. Find out how to raise the pace of change, how we can increase acceptance, trigger investments, and get things moving - full speed! The event offers delegates a comprehensive package of 5 conferences.

WHO attends the event?
Over 400 experts from more than 50 countries each year! A wide range of actors engaged in the energy transition:
- technology and equipment companies, energy companies, service providers, planners, developers, financing sector etc.
- the energy efficiency research community
- representatives from public bodies (e.g. EU institutions, national, regional and local governments, energy agencies)

WHEN does it take place?
7 - 8 April 2022

HOW to join?
Mark your calendar and register today! (www.wsed.at)

This "special edition" of our annual conference will be held as a hybrid event: You can participate onsite (following COVID rules in place at the time of the event) or connect digitally from anywhere in the world. Registered participants will receive detailed information prior to the conference.

WHERE does it happen?
In Wels/Austria. The region of Upper Austria is an ideal location for this conference: Through significant increases in energy efficiency and renewable energy, GHG emissions from buildings were reduced by 39% in 10 years. 60% of all space heating and 31% of the primary energy in Upper Austria already come from renewables.

2022: Energy efficiency – full speed ahead!
Fast tracking energy efficiency: Fit for 55

The new “Fit for 55” package aims to put the EU on track towards climate neutrality. Energy accounts for 75% of GHG emissions. Speeding up the energy transition is critical! Gain insights into this new and far-reaching policy framework and how it supports energy efficiency. We present how to increase acceptance, trigger investments and get things moving – full speed!

- Opening and welcome
  Markus Achleitner, Regional Minister for Economy and Energy, Upper Austria

- “Fit for 55” with energy efficiency
  Claudia Canevari, European Commission, DG Energy

- Energy efficiency progress on the path to the Paris targets
  Kevin Lane, International Energy Agency

- Best Young Energy Efficiency Researcher Award

- The Austrian renewable heat strategy – a key element of the energy transition
  Jürgen Schneider, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology, Austria

- Narratives for the energy transition: a global perspective
  Miranda Schreurs, Technical University of Munich, Germany
Stepping up energy efficiency investments offers great opportunities for both the energy transition and a positive economic development. Well-designed Recovery Plans lead the way forward in using clean energy as an agent for economic revival. We present how to make clean energy investments happen at national and regional levels in Europe and beyond.

**Sustainable energy investments in national Recovery Plans**
Nadine Müller / Marius Lungu, European Commission, Recovery and Resilience Task Force

**Energy Leader Upper Austria**
Gerhard Dell, OÖ Energiesparverband, Austria

**Business leadership for a climate neutral economy**
Martin Porter, Cambridge Institute for Sustainability Leadership (CISL), United Kingdom

**A spotlight on the energy transition in the Gulf countries**
Andrea Di Gregorio, Ras Al Khaimah, United Arab Emirates

**Engaging and empowering citizens**
Citizens are at the heart of the energy transition. They also show an increased interest in taking an active part in energy markets. We take a closer look at the key role they play and present the policy framework and opportunities for engaging and empowering them for energy efficiency.

**Empowering consumers for the energy transition**
Charles Esser, Council of European Energy Regulators (CEER)

**Cooperatives enabling citizen-based energy investments**
Sem Oxenaar, REScoop.eu, Belgium

**"Centrales Villageoises" – citizen-owned energy companies**
Patrick Biard, Auvergne-Rhône-Alpes Energie Environnement, France

**Chairperson:** Jan Geiss, Eufores

**13.00 Lunch break**

This conference is organised in the context of the H2020 “Energy Efficiency Watch 4” project: www.energy-efficiency-watch.org
Driving the industrial energy transition

A step change in the industrial energy transition is a key factor both for economic competitiveness and the overall energy transition. Sustainable energy solutions support industrial companies’ in doing “better business” instead of “business as usual”. The session focuses on key developments in this sector.

- Making the transformation of industrial regions happen
  Manfred Fischedick, Wuppertal Institute, Germany

- The role of hydrogen in industry’s transition
  Christopher Hebling, Fraunhofer Institute for Solar Energy Systems ISE, Germany

- Accelerating the industrial energy transition
  Gerhard Dell / Christiane Egger,
  OÖ Energiesparverband, Austria

- Climate neutral industrial processes: technology solutions
  Àngels Orduña Cao, A.SPIRE, Belgium
7 April | 16.00

**Energy flexibility for a clean and digital transformation**

Increasing energy flexibility, digitalisation and innovations in storage technologies offer interesting new solutions for industry. They enable companies participation in energy markets, support their decarbonisation ambitions and impact positively their overall competitiveness. We show how!

- **Flexible energy markets – what is in it for industry?**
  Alfons Haber, e-control, Austria

- **Digitalisation as a booster for energy flexible factories**
  Alexander Sauer, University of Stuttgart, Germany

- **Industrial Microgrids: an innovative energy exchange platform**
  Gerald Steinmaurer, University of Applied Sciences Upper Austria, Austria

- **The industrial energy transition needs storage solutions**
  Dirk Uwe Sauer, RWTH Aachen University, Germany

7 April | 17.00

**Striving for climate neutrality: examples worth replicating**

Ever more companies are tackling their energy transition full on with motivation and innovative solutions! Hear about success stories and best practice examples worth replicating.

- **The "Future Energy Plant" at Smurfit Kappa Nettingsdorf**
  Günter Leitgeb, Smurfit Kappa Nettingsdorf, Austria

- **Renewable energy options for industrial process heat**
  Keith Lovegrove, IPT Renewables, Australia

- **Biomass and heat pumps – examples for process heat**
  Thomas Führer, STIWA / Markus Brychta, Peneder Gruppe, Austria

18.00 Conference end

19.00 Evening programme
Navigating electric mobility

This session presents the policy framework and markets that are powering up the e-mobility sector. It shows how they enable the establishment of the mobility solutions of the future, now! Leading experts offer updates on policies, technologies and markets.

- Opening and welcome
  Gerhard Dell, OÖ Energiesparverband, Austria

- European policies for e-mobility and charging infrastructure
  Kai Tullius, European Commission, DG Move

- The uptake of e-mobility in Europe: status-quo and outlook
  Marie Rajon Bernard, International Council on Clean Transportation (ICCT)

- Battery-electric vehicles for everyone by 2030
  Christian Hochfeld, Agora Transport Transformation, Germany

- Electric vehicles and renewable energy: a perfect match
  Dolf Gielen, International Renewable Energy Agency (IRENA)

- Electric heavy duty trucks
  Harm Weken, FIER Automotive, The Netherlands
Innovation session: business models and charging solutions

Innovative business models and cutting-edge charging solutions are driving e-mobility forward. We show how these innovations enable the large-scale rollout of e-mobility.

- **100 % fossil free Volvo Group vehicles**
  Niklas Andersson, Volvo Group, Sweden

- **A paradigm shift in charging solutions**
  Lars Frieg, Elli, Volkswagen Group, Germany

- **Increasing deployment of Megawatt Charging Systems (MCS)**
  Johan Peeters, ABB EV Charging Infrastructure, The Netherlands

- **Intelligent and climate neutral charging solutions**
  Gerhard Wimmer, KEBA Energy Automation, Austria

- **Charging infrastructure for company fleets: use cases**
  Christoph Leitinger, Energie AG Oberösterreich, Austria

- **Emil – smart charging solution for companies**
  Michael Schubert, Fronius International, Austria

- **Shifting gears: fully emission-free SAP fleet by 2025**
  Jürgen Rennar, SAP, Germany

13.00 Conference end
Two workshops present latest results from EU funded projects in the fields of buildings and innovative technologies.

**Renewable heating & cooling in the residential sector**

Organised in the context of the H2020 project REPLACE

- **Welcome and introduction**
  - Herbert Tretter, Austrian Energy Agency, Austria
  - Dominik Rutz, WIP Renewable Energies, Germany

- **The role of residential heating in the “Fit for 55” Package**
  Ana Sin Bagüés, European Commission, CINEA

- **REPLACE in a nutshell**
  Gašper Stegnar, Jožef Stefan Institute - Energy Efficiency Centre, Slovenia

- **Renewable heating & cooling options: real-life stories**
  Benedetta Di Costanzo, WIP Renewable Energies, Germany

- **The REPLACE heating system calculator**
  Herbert Tretter, Austrian Energy Agency, Austria

- **Roundtable: Challenges and drivers for renewable heating & cooling in South-Eastern and Central Europe**
  - Marin Petrović, Enova Consultants and Engineers, Bosnia and Herzegovina
  - Dražen Balić, Energy Institute Hrvoje Požar (EIHP), Croatia
  - Angel Nikolaev, Black Sea Energy Research Centre (BSERC), Bulgaria
  - Emilija Mihajloska, SDEWES Centre, Macedonia
  - Karina Knaus, Austrian Energy Agency, Austria
  - Ana Sin Bagüés, European Commission, CINEA
  Chairperson: Stefan Drexlmeier, Energiewende Oberland, Germany

- **Wrap-up and recommendations**
  Francisco Puente Salve, Escaño Energy Consulting, Spain

Chairperson: Karina Knaus, Austrian Energy Agency, Austria
8. April | 13.30 – 15.30

**EnerMaps: Open-access energy data management**

Organised in the context of the H2020 project EnerMaps

- **Welcome**
  Jakob Rager, CREM, Switzerland

- **The EnerMaps project**
  Jakob Rager, CREM, Switzerland

- **The EnerMaps Gateway**
  Giulia Conforto, e-think, Austria

- **The EnerMaps Data Visualisation Tool and Calculation Modules**
  - Marcus Hummel, e-think, Austria
  - Eric Wilczynski, EURAC, Italy

**Chairperson:** Jakob Rager, CREM, Switzerland
This conference presents the work and achievements of young energy efficiency researchers from all over the world.

- **Opening and welcome**
  Gerhard Dell / Christiane Egger, OÖ Energiesparverband

- **The energy transition needs young people!**
  Nikolas Reschen, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology, Austria

- **Promoting energy efficiency programme equity through collaborative governance**
  Alexis Washburn, Massachusetts Department of Energy Resources, USA

- **Recovering waste heat from the London underground: sizing the opportunity**
  Henrique Lagoeiro / Matt Wegner, London South Bank University, UK

- **Canadian carbon pricing: effects on emissions and employment**
  Olivia Chen, Paris School of Economics, France

- **Assessment tool for energy communities**
  Diana Neves, Instituto Superior Tecnico Universidad de Lisboa, Portugal

- **Estimating price premium of high energy-efficient appliances**
  Elena López-Bernabé, Basque Centre for Climate Change, Spain

- **Decarbonising steel: energy efficiency and green premium mitigation**
  Alli Devlin, University of Oxford, UK

- **Electrification of heat generation in industry: technologies, integration and barriers**
  Frédéric Bless, OST Fachhochschule Ostschweiz / Matthias Speich, ZHAW Zurich University of Applied Sciences, Switzerland

- **Behaviour of Li-ion on the surface of Ti3C2-T Mxene**
  Konstantina Papadopoulou, Coventry University, UK

- **Bio-based phase change materials for thermal energy storage: a review**
  Ecem Sen, Ege University, Turkey

- **Unlocking the renovation wave: the European Central Bank’s green discount rate**
  Uuriintuya Batsaikhan / Stanislas Jourdan / Adua Dalla Costa, Positive Money Europe, Belgium
Brazilian policies for climate-neutral buildings
Veronica Martins Gnecco, Federal University of Santa Catarina, Brazil / Luka Pajek, University of Ljubljana, Slovenia

Accelerating energy-efficiency renovation of single-family houses
Hanna Westling, Anthesis Group, Sweden

Modelling the impact of climate change on residential heating demand in Belgium
Essam Elnagar, University of Liege, Belgium

 Improved indoor climate with energy-efficient micro-environment systems
Weixin Zhao, Aalto University, Finland

Influence of climate change on energy performance and indoor temperatures
Bartosz Witkowski, Wroclaw University of Science and Technology, Poland

A simulation tool for self-sufficient buildings
Andrii Zakovorotnyi, Lucerne University of Applied Sciences and Arts, Switzerland

Analysis of smart building solutions for operational efficiency
Norbert Harmathy, Budapest University of Technology and Economics, Hungary

Optimising building energy efficiency and comfort: a simulation
Ayush Kamalia / Pedro Correa de Melo, Politecnico di Milano, Italy

Form follows “the human”? 
Balázs Fürtön / Baláz Nagy, Budapest University of Technology and Economics, Hungary

Chairperson: Gerald Steinmaurer, University of Applied Sciences Upper Austria

13.00 Lunch break
Upper Austria - a leader in the clean energy transition

Upper Austria, one of Austria’s nine regions with a population of 1.5 million, is a leader in the clean energy transition. This makes it an ideal location for this conference. Through significant increases in energy efficiency and renewable energy, greenhouse gas emissions from buildings were reduced by 39% in 10 years.

60% of all space heating and 31% of the primary energy in Upper Austria already come from renewables.

- 31% of the primary energy is supplied by renewables
- 39% reduction of greenhouse gas emissions in the buildings sector in the last decade
- 2.8 billion Euro invested annually in renewable energies and energy efficiency

The audience – the whole energy transition sector!

Each year, the European Energy Efficiency Conference attracts over 400 experts from more than 50 countries including:

- a wide range of business actors engaged in the energy transition: technology and equipment companies, energy companies, service providers, planners, developers, financing community etc.
- the energy efficiency research community
- representatives from public bodies (e.g. EU institutions, national, regional and local governments, energy agencies)

The conference organiser
OÖ Energiesparverband

The OÖ Energiesparverband (ESV) is the energy agency of Upper Austria. The agency, which was established by the regional government, drives the energy transition by promoting energy efficiency, renewables and e-mobility. It provides comprehensive services to households, businesses of all sizes and municipalities. It also supports energy technology companies in the context of the Cleantech-Cluster.

www.energyleaders.eu
The tradeshow – energy efficiency product innovations in real life!

Visit a major tradeshow on renewable energy and energy efficiency ("Webuild-Energiespar-messe")! The tradeshow is held in parallel to the conference (subject to the Covid situation).

Austrian companies present their latest product innovations. Seize the opportunity to network in-person, on the tradeshow floor!

Practical information

Hybrid Event:
- On-site participation: following COVID rules in place at the time of the event. Registered participants will receive detailed guidance prior to the event.
- Online participation from anywhere in the world

Conference venue
Stadthalle Wels, Pollheimerstrasse 1, 4600 Wels, Austria

Conference fees
All fees include conference documentation.
All fees plus 10 % VAT
- 30 Euro for the European Energy Efficiency Conference, 7 - 8 April (on-site and online)
- 20 Euro each for the conferences: Policy (7 April); Industry (7 April); E-Mobility (8 April) (on-site and online)
- 70 Euro for all WSED events (on-site and online)
- Free online participation in the Young Energy Efficiency Researchers Conference and the Innovation Workshops
- Students can apply for free participation to office@esv.or.at

Conference languages
Simultaneous translation in English and German

Photos: OÖ Energiesparverband, iStock
European Energy Efficiency Conference 2022

7 - 8 April 2022
Wels, Austria

Conference office
OÖ Energiesparverband
Landstrasse 45, 4020 Linz, Austria
Tel. +43/732/7720-14386
office@esv.or.at, www.esv-en.at, www.wsed.at

Registration
Online at www.wsed.at

How to reach Wels?
- by railway: direct connections from Vienna and Vienna airport, Linz, Salzburg, Munich, Paris, Brussels, etc.
- by road: A1 and A25 motorways
- by air: airports in Linz (17 km from Wels), Vienna (222 km), Salzburg (110 km), Munich (247 km)

Conference location

400 participants
50 countries
40 speakers

Printed on 100 % recycled paper