



European Energy Efficiency Conference 2024

ENERGY EFFICIENCY NOW – FAST, SMART, RESILIENT!

7 – 8 March 2024, Wels, Austria

Conferences:

- Energy Efficiency Policy Conference
- Industrial Energy Efficiency Conference
- Smart E-Mobility Conference
- Young Energy Efficiency Researchers Conference
- Workshop "Cities and regions"








www.wsed.at












European Energy Efficiency Conference 2024

Energy Efficiency now – fast, smart, resilient!

Programme overview

- 
Energy Efficiency Policy Conference
 New Energy Efficiency Directive • REPower EU & Green Deal • EE Markets & Finance • Energy Communities • Energy Efficiency Watch
- 
Young Energy Efficiency Researchers Conference Presenting the work of young energy researchers • Best Young Energy Efficiency Researcher Award
- 
Industrial Energy Efficiency Conference
 Pathways to net-zero industries • Policy updates • Clean energy technologies & flexibility • Green hydrogen • Case studies
- 
Smart E-Mobility Conference
 Technology, policy and market updates • Bi-directional & fast charging • Battery innovations • Case studies
- 
Workshop "Cities and regions – drivers for climate neutrality"
 Best practice examples of a wide range of energy transition investments with different financing solutions
- 
Poster Presentation Displaying energy projects, innovations and EU project results to international experts
- 
Tradeshow Leading tradeshow (Energiesparmesse-Webuild) on energy and buildings • Austrian & international companies present product innovations • 2023: 78,000 visitors

Timetable World Sustainable Energy Days	Tuesday 5 March	Wednesday 6 March	Thursday 7 March	Friday 8 March
 European Pellet Conference				
 European Energy Efficiency Conference				
 Energy Efficiency Policy Conference				
 Industrial Energy Efficiency Conference				
 Workshop "Cities and regions"				
 Young Energy Researchers Conference				
 Smart E-Mobility Conference				
 Tradeshow				
 Poster Presentation				

The new Energy Efficiency Directive

No time like now for energy efficiency! Price fluctuations, geopolitical instabilities and the climate crisis make the role of energy efficiency in the energy transformation evident. New EU targets require a strong push for energy efficiency in all sectors.

The 2024 Energy Efficiency Conference will show how to realise the high policy ambitions and how to strengthen energy efficiency demand and markets.

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 March 2024

HOW to join?

Mark your calendar and register today!
(www.wsed.at)

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 %. 60 % of all space heating and 33 % of the primary energy in Upper Austria already come from renewables.

With the World Sustainable Energy Days, Upper Austria - a leader in the energy transition - is the meeting place for sustainable energy.

Europe has set itself the ambitious target of becoming the first climate-neutral continent. We present and discuss solutions to practically implement the energy transition quickly. With energy efficiency and renewable energy, we will ensure competitiveness and decrease energy costs!

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



NEW 2024

- New Energy Efficiency Directive
- Towards net-zero
- Local and regional energy transition

Energy Efficiency Policy Conference

7 March 2024



7 March | 09.00

Energy efficiency policies in choppy waters

No time like now for energy efficiency! Price fluctuations, geopolitical instabilities and the climate crisis make the role of energy efficiency in the energy transformation evident. This session presents the ambitious new European energy efficiency legislation and how we can deliver!

- **Opening and welcome**
- **The revised Energy Efficiency Directive**
Claudia Canevari, European Commission, DG Energy
- **UN energy efficiency initiatives - opportunities to bridge the gap**
Nadejda Khamrakulova, United Nations Economic Commission for Europe
- **Active efficiency - energy efficiency goes digital**
Vincent Barnes, Alliance to Save Energy, USA
- **Best Young Energy Efficiency Researcher Award**
- **Energy efficiency policies in Austria**
Jürgen Schneider, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology, Austria
- **Results of the European Energy Efficiency Watch Survey**
Christiane Egger, OÖ Energiesparverband, Austria

7 March | 11.15

How the energy transition can work - examples from different sectors

A strong push for energy efficiency in all sectors is critical. This session highlights different initiatives which empower energy consumers and support key policy areas on their shift to sustainable energy.

- **Clean energy transition projects supporting key policy areas**
Anette Jahn, European Commission, CINEA
- **Our planet is not renewable, but energy is**
Leonhard Schitter, Energie AG, Austria
- **Decarbonising district heating**
Pauline Lucas, Euroheat & Power
- **Energy Communities - next level**
Gerhard Dell, OÖ Energiesparverband, Austria
- **Tackling energy and mobility poverty for an inclusive green transition**
João Pedro Gouveia, NOVA School of Science and Technology, Portugal
- **The impacts of energy labels and ecodesign - latest results**
Leo Wierda, VHK, The Netherlands

Chairperson: Jan Geiss, Eufores

13.00 Lunch break

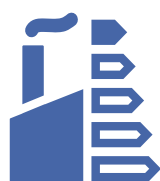


This conference is organised in the context of the LIFE project "Energy Efficiency Watch 5":
www.energy-efficiency-watch.org



Industrial Energy Efficiency Conference

7 March 2024



7 March | 14.00

Policies and programmes to transform industry

Decarbonising industry is one of the main challenges in the energy transition. This session features the key topics of this transformation from competitiveness to digitalisation and innovation.

- **Opening and welcome**
- **European energy transition policies for competitiveness, digitalisation and innovation**
Vincent Berrutto, European Commission, DG Energy
- **Innovative renewable solutions for industry**
Roland Roesch, International Renewable Energy Agency
- **The new "transformation of industry" initiative**
Arno Gattinger, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology, Austria



7 March | 15.30

Pathways to net-zero industries

Fast-tracking the industrial decarbonisation is key! This session presents innovations to accelerate and upscale energy efficient and sustainable transformation pathways.

- **Energy systems of the "ultra-efficient factory"**
Alexander Sauer, University of Stuttgart/Fraunhofer IPA, Germany
- **Upscaling hydrogen systems manufacturing**
Ulrike Beyer, Fraunhofer IWU, Germany
- **Hydrogen supply solutions for industrial sites**
Thomas Kienberger, Montanuniversität Leoben, Austria
- **From energy data to successful CO₂ management**
Jens Strüker, University of Bayreuth/Fraunhofer Blockchain Lab, Germany

7 March | 17.00

Best practice examples

Inspiring examples from Austria and other countries show how decarbonising industrial sites can be successfully tackled.

- **Large-scale heat pumps and PV instead of natural gas**
Franz Baischer, B&R Industrial Automation
- **A fossil-free industrial site**
Katrin Helmberger, Fronius International
- **Solutions for industry from the innovation network NEFI**
Wolfgang Hribernik, Austrian Institute of Technology
- **Energy efficient compressed air solutions for industry**
Francisco Puente, ESCAN, Spain
- **The "Solarise at work" employee programme**
Brian Keane, SmartPower, USA

18.00 Conference end

19.00 Evening programme



Smart E-Mobility Conference

8 March 2024



8 March | 08.45

E-Mobility – next level!

The major role of e-mobility in achieving climate targets is obvious. This session presents policies and innovation that drive e-mobility to the next level.

- **Opening and welcome**
Markus Achleitner, Regional Minister for Economy and Energy, Upper Austria
- **Update on EU e-mobility policies**
Kai Tullius, European Commission, DG MOVE
- **More than 600,000 charging points in Europe - the electric future is here!**
János Ungár, AVERE
- **E-mobility technology trends**
Susanne Koblitz, Independent Expert EV Charging Technology, Germany
- **Increasing manufacturing capacity to electrify passenger vehicles**
Daniel Wohl, Havard Business School, USA
- **Sustainable e-mobility solutions worldwide**
Rohan Shailesh Modi, GIZ, Germany
- **Flexible energy systems for the integration of EVs**
Roger Valdés, Catalonia Institute for Energy Research, Spain



8 March | 11.15

Smart charging and more

This session provides an update on the latest R&D developments and solutions around smart charging – from bi-directional to automated – and battery integration.

- **Bi-directional charging - where are we?**
Daniel Stetter, Fraunhofer IAO, Germany
- **Scaling-up smart charging and vehicle-to-grid**
Marisca Zweistra, Elaad, The Netherlands
- **Matrix charging – a new standard for automated EV charging**
Hermann Stockinger, Easelink, Austria
- **Battery integrated fast charging solutions**
Christoph Ebersdorfer, XCharge, Germany
- **Advanced light weight materials for electric vehicles**
Emre Elmas, Farplas, Turkey

13.00 Conference end



Workshop "Cities and regions – drivers for climate neutrality"



6 March 2024 | 14.00

This workshop is targeted at regional and local energy agencies as well as representatives of cities and regions. It presents best practice examples of a wide range of energy transition investments with different financing solutions, and provides a platform for inspiration and exchange for this community.

- **Welcome and opening**
- **EU policies supporting the local and regional energy transition**
Claudia Canevari, European Commission, DG Energy
- **Clean energy transition projects for the local and regional level**
Anette Jahn, European Commission, CINEA
- **Local and regional energy agencies leading the energy transition**
Seamus Hoyne, Technological University of the Shannon, Ireland
- **From learning to action in cities and regions**
Giulia Pizzini, IEECP, The Netherlands

Best Practice Examples

- **Boosting energy communities**
Christiane Egger, OÖ Energiesparverband, Austria
- **Developing PV for a sunny future**
Julije Domac, REGEA, Croatia
- **Financing public investments through ELENA and contracting**
Vlasta Krmelj, Energap/Mayor of Selnica ob Dravi, Slovenia
- **Gearing up sustainable mobility**
Alicia Villazan Cabero, Valladolid City Council, Spain

- **How intracting can work for your city or region**
Sandrine Deterney, City of Albertville, France
- **Top Condomini: 40% less energy for 3,000 public and private homes**
Claudia Carani, AESS, Italy
- **Boosting building renovation – an OSS success story**
Raphaëlle Viénot, AREC-Occitanie, France
- **Cities and regions – catalysers for the industrial energy transition**
Rickard Waern, West Sweden Energy Agency, Sweden
- **The Mazovian Renovation Wave project**
Bartosz Dubiński, Mazovia Energy Agency, Poland
- **Revolving funds: reinvesting savings in new sustainable energy projects**
Jaroslav Klusák, SEMMO, Czech Republic

Networking for energy agencies and regional and local authorities

The workshop is held in the context of the ManagEnergy Initiative and the H2020 Project Prospect+.



Young Energy Efficiency Researchers Conference

5 March 2024



5 March | 9.00

This conference presents the work and achievements of young energy efficiency researchers from all over the world.

- **Opening and welcome**
Gerhard Dell / Christiane Egger, ÖÖ
Energiesparverband
- **Climate change impacts on heating and cooling energy demands of buildings**
Essam Elnagar, Building Performance Institute Europe, Belgium
- **Innovative approaches to thermal comfort and automated lighting**
Christian Weiglein, Center for Applied Energy Research, Germany
- **A novel control method for energy-efficient, grid-interactive buildings**
Rui Tang, University College London, UK
- **Why not net zero energy buildings?**
László Zsolt Gergely, Budapest University of Technology, Hungary
- **A novel approach to energy efficiency in data centre cooling**
Zhichu Wang / Cheng Zeng, University of Hull, UK
- **Energy-efficient indoor climate control with plants**
Elias Wolfrath, Center for Applied Energy Research, Germany



- **Optimised demand side management in networks of multi-energy prosumers**
Costanza Saletti, University of Parma, Italy
 - **Enhancing PV efficiency through thin object shade analysis**
Matthew Axisa, University of Malta
 - **Underwater performance of photovoltaic systems for aquatic applications**
Sally Raduk, University of Agriculture and Technology, Kenya
 - **System efficiency factors for space-based solar radiofrequency microwave power beaming**
Anthony Peters, United States Navy, USA
 - **Photoelectrochemical cells: solar water splitting and green hydrogen production**
Sofia Gonçalves / João Freitas, University of Porto, Portugal
 - **Hydrogen-based microgrid solutions for a green energy future**
Mary Esther Ascheri, Fraunhofer IWU, Germany
 - **A green hydrogen route for electromobility in Brazil**
Milena Marques, Federal University of Vicosa, Brazil
 - **Management of electric vehicles for energy flexibility under uncertainty**
Antoni Bosch Pons, IREC, Spain
 - **Improvements of LiFePO₄ batteries and supercapacitors**
Stefania Volante, University of Pisa, Italy
 - **Enhancing energy efficiency in battery cell factories**
Jonas Finn Kutschmann, Fraunhofer FFB, Germany
 - **Exploring the determinants of success in the renewable energy transition**
Mohamed Wael Ben Khaled, Université Côte-d'Azur, France
 - **Strategic supply reduction in renewable energy**
Christoph Kretschmer, Universität Bayreuth, Germany
 - **Legislative developments for disruptive technologies and storage in the EU**
Ella Jollands, e7, Austria / Silvia Cesa-Bianchi, Twenty Communications, France
 - **Energy communities alleviating energy poverty in the Netherlands**
Jordan Young, Wageningen University & Research, The Netherlands
- 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 (population 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 %.

60 % of all space heating and 33 % of the primary energy in Upper Austria already come from renewables.

- 33 % of the primary energy is supplied by renewables
- 39 % reduction of greenhouse gas emissions in the buildings sector
- 2.8 billion Euro invested annually in renewable energy 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)

www.energyleaders.eu



The tradeshow – energy efficiency product innovations in real life!

Visit a major tradeshow on renewable energy and energy efficiency ("Webuild-Energiesparmesse")! The tradeshow (78,000 visitors in 2023) is held in parallel to the conference.

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

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.

Practical information

Conference venue

Stadthalle Wels, Pollheimerstrasse 1, 4600 Wels, Austria

Conference fees

All fees include entrance to the tradeshow, lunches / dinners and conference documentation.
All fees plus 10 % VAT

- 350 Euro for the European Energy Efficiency Conference (7 - 8 March)
- 120 Euro each for the conferences:
Industry (7 March); E-Mobility (8 March)
- 60 Euro each for the conferences: Policy (7 March); Workshop "Cities and regions" (6 March); Young Energy Researchers (5 March)
- 390 Euro for all WSED conferences (5 - 8 March)
- for student fees see www.wsed.at

Conference languages

Simultaneous translation in English and German



European Energy Efficiency Conference 2024

Date
7 – 8 March 2024

Venue
Stadthalle Wels, Pollheimerstrasse 1
4600 Wels, Austria

Organiser and conference office
ÖÖ Energiesparverband
Tel. +43/732/7720-14386
office@esv.or.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, etc.
 - by car: A1 and A25 motorways
 - by air: airports in Linz (17 km from Wels), Vienna (222 km), Salzburg (110 km), Munich (247 km)



Funding by the region of Upper Austria

 Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

