



World Sustainable Energy Days 2019

27 February - 1 March 2019

These were the World Sustainable Energy Days 2019

"Energy efficiency first" and "global leadership in renewables" are at the core of Europe's commitment to a clean energy transition. The World Sustainable Energy Days (WSED), one of Europe's largest annual conferences in this field, addressed policies, innovation and business in specialised conferences and interactive events. It connected people from business, the public sector and research and empowered them to embrace the change. More than 660 experts from 60 countries attended the World Sustainable Energy Days 2019, which took place from 27 February – 1 March in Wels/Austria, and visited the dedicated conferences, technical site visits and the tradeshow.



The conference programme

The **WSED 2019** focussed on energy efficiency and renewable energy as key elements for boosting economic competitiveness and the potential of using the clean energy transition to the benefit of all citizens through **specialised conferences**:

- European Pellet Conference
- Young Energy Researchers Conference
- European Energy Efficiency Conference
- Energy Efficiency Policy Conference
- Innovation Workshops Energy and Buildings
- Industrial Energy Efficiency Conference
- Smart E-Mobility Conference

Networking was a focal point of the interactive events: the "Energiesparmesse" (a major tradeshow on renewable energy and energy efficiency), the site visits ("Pellets & Wood Chips" and "Energy Efficiency") and the poster presentation.





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European Pellet Conference

Biomass is a cornerstone for the success of the clean energy transition in Europe and globally. Pellets are a clean, CO₂ neutral and convenient fuel with growing market shares worldwide. The European Pellet Conference 2019 in Wels/Austria was once again the meeting place for the global pellet community. It presented the latest technology trends, updates on policies, legislation and standardisation, news from research and innovation, an outlook on the developments of European and global markets, pilot projects and innovative business models. The event permitted experts to exchange experience and develop new business contacts. With more than 400 participants every year, the European Pellet Conference in Wels is the largest annual pellet event in the world.



The European Pellet Conference 2019 started on Wednesday with the plenary session "What's next for pellets", which showed the impact of the Clean Energy Package on the pellet industry. Afterwards a "Leadership Panel" took place, where decision makers from along the pellet supply chain discussed how the role of pellets in the energy transition can be strengthened.

Other highlights of the pellets conference were the "Pellet Innovation Panorama", which presented current pellet solutions, products and services, the session "What's new on European and global pellet markets" and two technical workshops on clean combustion.





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Site Visits "Pellets & Wood Chips"

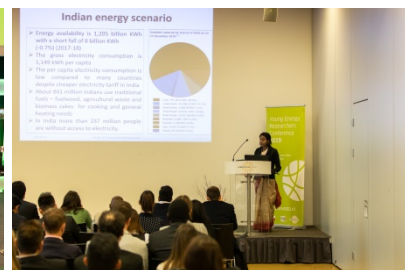
On Tuesday, prior to the European Pellet Conference, a full-day field-trip on "Pellets & Wood Chips" took place. Four stops were on the programme: a biomass boiler manufacturer, a pellet heating container solution for a wood retailer, an ESCO-operated biomass heating for an educational centre and a biomass district heating system. The participants welcomed the opportunity to gain first-hand information and to discuss specific questions on-site with the project operators.



Young Energy Researchers Conference



In the context of a call for papers, young researchers from all over the world were invited to submit their work in the fields of biomass and energy efficiency. Nearly 90 papers were submitted from over 36 countries. A scientific committee selected papers for oral and poster presentation. The papers were presented in two sessions: biomass and energy efficiency.



The Best Young Energy Researcher Awards were a highlight of the Young Energy Researchers Conference. The awards were presented to:

- Best Young Biomass Researcher: Rita Sturmlechner, for the paper "Real-life emissions of domestic wood heating appliances" and
- Best Young Energy Efficiency Researcher: Colin Nolden for the paper "The role of entrepreneurs in assetising energy efficiency and carbon emission reduction property rights"



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European Energy Efficiency Conference

The Clean Energy Package is changing Europe's energy markets. This requires strong policies, competitive businesses, technology innovation and investments. The European Energy Efficiency Conference addressed policies, innovation and business in specialised conferences and interactive events.

In two days, the European Energy Efficiency Conference offered delegates:

- 5 dedicated conferences
- technical visits to innovative energy efficiency projects
- a major tradeshow on building efficiency and renewable energy with more than 100,000 visitors and 1,600 exhibiting companies

The event addressed a range of topics in this field. It gave an update on the Clean Energy Package, had focus on industrial energy efficiency and presented innovations in building and energy and smart e-mobility. Experts from all over the world discussed latest research results and successful energy efficiency policies and programmes and presented innovative best practice examples.



The following events were part of the European Energy Efficiency Conference:

- Energy Efficiency Policy Conference
- Industrial Energy Efficiency Conference
- Innovation Workshops Energy and Buildings
- Young Energy Efficiency Researchers Conference
- Smart E-Mobility Conference
- Technical Site Visits: Energy Efficiency





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Energy Efficiency Policy Conference

The Energy Efficiency Policy Conference took place on Thursday, 28 February, and started with the session "What's next for energy efficiency?", which presented information on the implementation and effects of the "energy efficiency first" concept. The connection between climate protection and a thriving economy was discussed in the following Efficiency Expert Forum. The energy transition offers many opportunities for new products and services. A variety of them were presented in the session "Energy Efficiency Lab: Tomorrow's solutions".



Industrial Energy Efficiency Conference

The Industrial Energy Efficiency Conference on Thursday afternoon showed how the energy transition in industry can succeed and which innovations and policies are needed. The session "Financing and implementing energy efficiency in industry" presented real-life examples on how investments in industrial energy efficiency are possible and economically viable. The following session "Voices for industrial energy efficiency" showcased a variety of energy efficiency and renewable energy projects in industry.





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Smart E-Mobility Conference



The international Smart E-Mobility Conference offered insights into current market developments and the economic impacts of the e-mobility trend. An "Innovation Session: batteries and charging" presented amongst others research results in solid state batteries and direct solar high-speed charging. In addition, successful business models and innovative e-mobility projects were presented in the session "Rethinking e-mobility: creating new business", which provided valuable insights from the user's perspective.



Innovation Workshops Energy & Buildings



The "Innovation Workshops Energy & Buildings" on Thursday afternoon was dedicated to new research results on energy-efficient and sustainable buildings and offered six parallel workshops:

- Higher energy efficiency and lower business risks - Reducing the energy performance gap in buildings
- Energy efficiency for urban regeneration
- EU projects supporting EPBD implementation
- Energy-efficient buildings with reused materials
- Thermal energy storage: save today, use tomorrow!
- Geothermal heat pumps and thermally activated buildings



The Workshops were organised in the context of the H2020 projects MOEEBIUS, BuildHeat, CREATE, HYBUILD, SCORES, TESSE2B, THERMOSS, SUNHORIZON, RE4, VEPP, INNOWEE, GREENINSTRUCT, FISSAC, HybridGeotabs, ALDREN, CEN-CE and EPB Center.



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Technical Site Visits: Energy Efficiency



The World Sustainable Energy Days came to an end with the excursion "Site Visits: Energy Efficiency", an afternoon trip to energy efficiency projects in the surrounding area. A window manufacturer and a training centre, which underwent a deep refurbishment in 2016, were visited. The excursion offered an excellent opportunity to learn more about energy efficient technologies, buildings and projects in practice.



Further programme elements of the World Sustainable Energy Days 2019

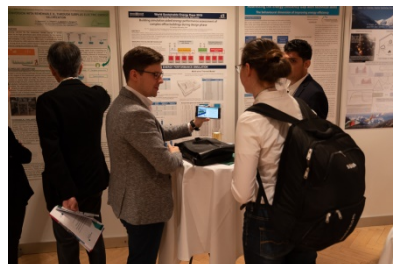
Workshop Horizon2020



The workshop was organised in cooperation with the network of Energy National Contact Points (NCPs, www.c-energy2020.eu) and provided valuable information about the Horizon2020 programme, especially for young energy researchers.

Poster presentation

A poster presentation was organised as an integrated part of the WSED. Over 60 companies and organisations took this opportunity to showcase their energy efficiency and renewable energy projects. Part of the poster presentation was dedicated to Young Energy Researchers.





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E-car delegation from the Netherlands

A delegation from the Netherlands drove to the World Sustainable Energy Days 2019 with alternative fuel vehicles. The trip was organised by Hansa Green Tour.



Voting

An interactive element, "the voting", was an integrated part of the conference procedure. During the sessions, the audience was invited to answer questions regarding their behaviours and opinions on various conference topics. The results of the voting can be found on the conference website www.wsed.at



Energiesparmesse - A leading European sustainable energy tradeshow

The "Energiesparmesse", a leading tradeshow on energy efficiency and renewable energy with nearly 100,000 visitors (including over 30,000 professional visitors) and 1,600 exhibiting companies took place in parallel to the World Sustainable Energy Days.



The OÖ Energiesparverband presented its comprehensive services at a large exhibition stand in Hall 20 where energy advisers were available to offer advice and information on energy efficiency and renewable energy sources. In addition, two special exhibitions were presented in cooperation with the Messe Wels and the region of Upper Austria: "LED – Innovative Lighting" and "E-Mobility & Smart Homes". Another special exhibition was dedicated to building materials.

