

World Sustainable Energy Days 2017



1 - 3 March 2017
1. - 3. März 2017

WELS, AUSTRIA

CONFERENCES

European Energy Efficiency Conference

Energy Efficiency Services and Business

E-Mobility & Smart Buildings

European Research Conference: Buildings

European Nearly Zero Energy Buildings Conference

Energy Efficiency Watch Conference

European Pellet Conference

Young Researchers Conference

INTERACTIVE EVENTS

Tradeshaw

Cooperation Platform

Site Visits

Poster Presentation

KONFERENZEN

Europäische Energieeffizienz Konferenz

Energieeffizienz-Dienstleistungen

E-Mobilität & smarte Gebäude

Europäische Forschungskonferenz: Gebäude

Europäische Niedrigstenergie-Gebäudekonferenz

"Energy Efficiency Watch" Konferenz

Europäische Pelletskonferenz

Young Researchers Conference

INTERAKTIVE EVENTS

Energiesparmesse

Kooperationsplattform

Fachexkursionen

Poster-Präsentation

World Sustainable Energy Days 2017

The World Sustainable Energy Days, one of the largest annual conferences in this field in Europe, offer a unique combination of events on sustainable energy.

For more than 20 years, experts from all over the world have gathered in Upper Austria to attend the events. In 2016, more than 700 experts from 57 countries participated in the conference!

This global meeting place for the sustainable energy community includes:

- 8 conferences on energy efficiency, biomass and sustainable buildings
- 4 interactive events (a major tradeshow, cooperation platform, site visits and poster presentation)

The event offers up-to-date information on technologies, policies and markets and an excellent platform for new contacts and business opportunities.

You are warmly invited to the World Sustainable Energy Days 2017!

Die World Sustainable Energy Days, eine der größten jährlichen Konferenzen in diesem Bereich in Europa, bieten eine einzigartige Kombination von Veranstaltungen zum Thema nachhaltige Energie.

Seit über 20 Jahren versammeln sich einmal im Jahr Expert/innen aus der ganzen Welt in Oberösterreich. 2016 verzeichnete die Veranstaltung mehr als 700 Teilnehmer/innen aus 57 Ländern.

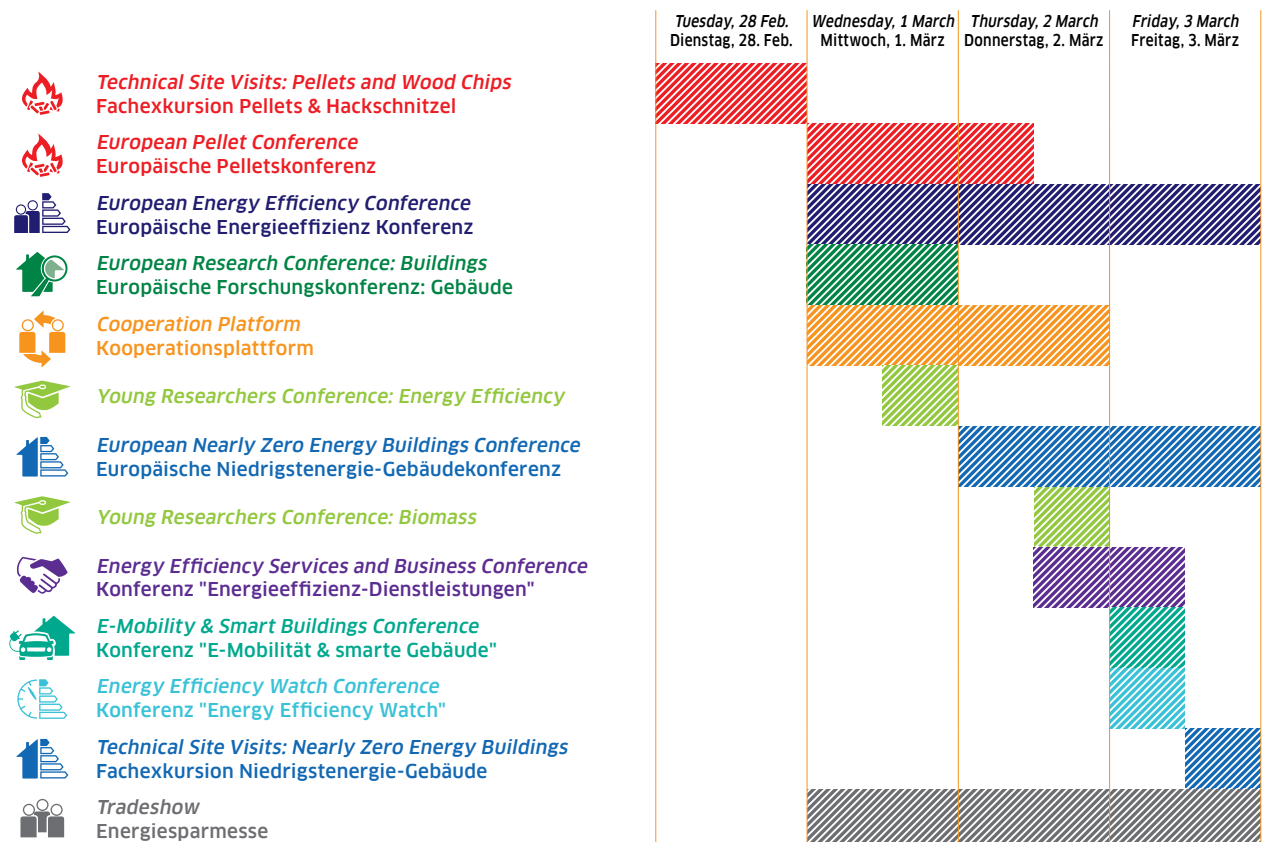
Das globale Branchentreffen rund um nachhaltige Energie bietet:

- 8 Konferenzen zu den Themen Energieeffizienz, Biomasse und nachhaltige Gebäude
- 4 interaktive Events (Fachmesse, Kooperationsplattform, Fachexkursionen und Poster-Präsentation)

Die Veranstaltung bietet topaktuelle Informationen über Technologien, Märkte und Strategien und eine exzellente Plattform für neue Kooperationen und Geschäftschancen.

Wir laden Sie sehr herzlich zu den World Sustainable Energy Days 2017 ein!

Timetable / Zeitplan World Sustainable Energy Days 2017



Programme / Programm



European Energy Efficiency Conference

Policies • Markets • Business models • Research & innovation • Technologies • Financing • Best practice solutions

Energy Efficiency Services and Business Conference

Financing and operational models • Energy Performance Contracting & other integrated services for buildings and industry

E-Mobility & Smart Buildings Conference

Market overview • Building integration, energy management, storage and charging solutions • Best practice examples

European Research Conference: Buildings

New research results on energy-efficient and sustainable buildings

European Nearly Zero Energy Buildings Conference

High efficiency buildings supplied by renewable energy: Technologies • Policies • Financing • Innovative energy services

Energy Efficiency Watch Conference

Update on the implementation of the EU energy efficiency policies • Policy examples

European Pellet Conference

The world's largest annual conference on pellets: Technologies • Markets • Policies • Financing

Young Researchers Conference: Biomass + Energy Efficiency

2 conferences presenting the work and achievements of young researchers, Best Young Researcher Awards

Tradeshow "Energiesparmesse"

Leading tradeshow on renewable energy and energy efficiency with 100,000 visitors and 1,600 exhibitors annually

Cooperation Platform

Finding new business partners in bilateral meetings (energy efficiency and biomass)

Technical Site Visits

Pellets & wood chips (28 February) • Nearly Zero Energy Buildings (3 March)

Poster Presentation

Offers the opportunity to present successful initiatives and projects on energy efficiency and renewable energy



Europäische Energieeffizienz Konferenz

Märkte • Geschäftsmodelle • Strategien • Forschung & Innovation • Technologien • Finanzierung • Best Practice Lösungen



Konferenz "Energieeffizienz-Dienstleistungen"

Finanzierungs- und Betreibermodelle • Contracting und andere Dienstleistungen für Gebäude und Industrie



Konferenz "E-Mobilität & smarte Gebäude"

Marktüberblick • Lösungen rund um Gebäudeintegration, Energiemanagement, Speicher und Ladestationen • Best Practice Beispiele



Europäische Forschungskonferenz: Gebäude

Neue Forschungsergebnisse rund um energieeffiziente und nachhaltige Gebäude



Europäische Niedrigstenergie-Gebäude Konferenz

Gebäude mit hohem Effizienzstandard, die mit erneuerbarer Energie versorgt werden: Technologien • Strategien • Finanzierung • Innovative Dienstleistungen



Konferenz "Energy Efficiency Watch"

Ein Update zur Umsetzung der EU Energieeffizienz-Politik • Beispiele für Energiestrategien



Europäische Pelletskonferenz

Die weltweit größte jährliche Konferenz zum Thema Pellets: Technologien • Märkte • Strategien • Finanzierung



Young Researchers Conference: Biomass + Energy Efficiency

2 Konferenzen zur Präsentation der Arbeiten junger Forscher/innen, Best Young Researcher Awards



Energiesparmesse

Führende Messe im Bereich erneuerbare Energie & Energieeffizienz mit 100.000 Besucher/innen & 1.600 Ausstellern jährlich



Kooperationsplattform

Neue Geschäftspartner/innen in bilateralen Meetings finden (Energieeffizienz & Biomasse)



Fachexkursionen

Pellets & Hackschnitzel (28. Februar) • Niedrigstenergie-Gebäude (3. März)



Poster-Präsentation

Die Poster-Präsentation bietet die Möglichkeit, erfolgreiche Ökoenergie- & Energieeffizienz-Projekte zu präsentieren.





Energy efficiency first: This new approach in European energy policies aims to boost growth in the EU economy, investments and job creation. The European Energy Efficiency Conference encompasses 6 different conferences and addresses policies, markets, business models, financing and research & innovation.

2 March

09.00 Energy efficiency policies and markets

Opening & welcome

- Michael Strugl, Regional Minister for Energy, Upper Austria
- Gerhard Dell, OÖ Energiesparverband, Austria

The new EU energy policy: clean energy for all Europeans

- Paul Hodson, European Commission, DG Energy

The IEA Energy Efficiency Market Report 2016

- Tyler Bryant, International Energy Agency

The energy transition in view of global megatrends

- Manfred Fishedick, Wuppertal Institute, Germany

Financing energy efficiency by the EIB

- Berna Bohrer-Topaloğlu, European Investment Bank

Energy efficiency – a key factor in global competitiveness

- Gerhard Dell, Energy Commissioner Upper Austria

India's energy efficiency programmes: another perspective ■ Nanda Kumar Janardhanan, Institute for Global Environmental Strategies, India

Innovation, jobs and profit

Making energy efficiency your business

- Harry Verhaar, Philips, The Netherlands

Pick the lowest hanging fruit

- Claus Bugge Garn, Rockwool International, Denmark

Construction SMEs – key players in energy efficiency

- Riccardo Viaggi, European Builders Confederation

13.00 Lunch break



Energieeffizienz zuerst: Diese Neuorientierung der europäischen Energiepolitik zielt darauf ab, Wirtschaft und Investitionen anzukurbeln und Arbeitsplätze zu schaffen. Die Europäische Energieeffizienz Konferenz umfasst 6 Konferenzen und behandelt Strategien, Märkte, Geschäftsmodelle, Finanzierung, Forschung & Innovation.

2. März

09.00 Energieeffizienz-Strategien und Märkte

Eröffnung & Begrüßung

- LR Dr. Michael Strugl, Energielandesrat Oberösterreich
- Dr. Gerhard Dell, OÖ Energiesparverband, Österreich

Nachhaltige Energie für alle EuropäerInnen: Die neue EU Politik

- Paul Hodson, MSc, Europäische Kommission, GD Energie

Der IEA "Energy Efficiency Market Report" 2016

- Tyler Bryant, MPP, Internationale Energieagentur

Die Energiewende im Kontext von Megatrends

- Univ. Prof. Dr. Manfred Fishedick, Wuppertal Institut, D

Europäische Finanzierung von Energie-Effizienzprojekten

- Berna Bohrer-Topaloğlu, Europäische Investitionsbank

Energieeffizienz als Standortfaktor im globalen Wettbewerb

- Dr. Gerhard Dell, Landesenergiebeauftragter Oberösterreich

Eine andere Perspektive: Energieeffizienz-Programme in Indien ■ Dr. Nanda Kumar Janardhanan, Institute for Global Environmental Strategies, Indien

Innovationen, Jobs und Gewinn

Energieeffizienz im Zentrum der Unternehmensstrategie

- Harry Verhaar, MSc., Philips, Niederlande

Priorität für die wirtschaftlichsten Energieeffizienz-Maßnahmen

- DI Claus Bugge Garn, Rockwool International, Dänemark

Bau-KMUs: zentrale Akteure der Energieeffizienz

- Riccardo Viaggi, MA, European Builders Confederation

13.00 Mittagspause



Energy Efficiency Services and Business Conference European Nearly Zero Energy Buildings Conference



Energy efficiency services are key for the transition of the building and industry sectors. The conference presents business models and financing approaches in Europe.

2 March

14.30 How to boost the energy efficiency services market

Smart financing for smart energy

- Anette Jahn, European Commission, EASME

Facilitating the ESCO market

- Christiane Egger, OÖ Energiesparverband, Austria

How ready is Europe for the "Smart Building Revolution"?

- Maarten De Groot, Buildings Performance Institute Europe

Scaling up deep energy renovation through innovation & industrialisation

- Erica Hope, European Climate Foundation, NL

Successful examples: Energy efficiency services and business models

Energy Performance Contracting (EPC) – the customer focus

- Volker Dragon, Siemens, Switzerland

Energy efficiency services for global industries

- Stefan Klepzig, Schneider Electric, Germany

The US Federal Energy Management Programme

- Nicolas Baker, U.S. Department of Energy, USA

EPC examples from Spain

- Elena González Sánchez, National Association of Energy Services Companies, Spain

EPC example for businesses

- Klaus Dorninger, Energie AG Oberösterreich Power Solutions, Austria

The "Picardie Pass Rénovation" programme

- Alice Morcrette, Picardie Public Office for Energy Efficiency, France

Superhomes – a systematic NZEB retrofit process

- Paul Kenny, Tipperary Energy Agency, Ireland

19.00 Evening Programme

Konferenz "Energieeffizienz-Dienstleistungen" Europäische Niedrigstenergie-Gebäude Konferenz



Energieeffizienz-Dienstleistungen kommt eine Schlüsselrolle bei der Veränderung von Gebäudesektor und Industrie zu. Die Konferenz präsentiert Geschäfts- und Finanzierungsmodelle in Europa.

2. März

14.30 Märkte für Energieeffizienz-Dienstleistungen ankurbeln

Innovative Finanzierung für smarte Energieprojekte

- Anette Jahn, Europäische Kommission, EASME

Entwicklung regionaler Contracting-Märkte

- Mag. Christiane Egger, OÖ Energiesparverband, Österreich

Ist Europa bereit für die "Smart Building Revolution"?

- Maarten De Groot, MA, Buildings Performance Institute Europe

Gebäudesanierungen im großen Stil durch Innovation und Industrialisierung

- Erica Hope, MA, European Climate Foundation, NL

Energieeffizienz-Dienstleistungen: erfolgreiche Beispiele

Energie-Contracting – der Kunde im Fokus

- Dipl.-Betriebswirt Volker Dragon, Siemens, Schweiz

Energieeffizienz-Dienstleistungen für die Großindustrie

- Stefan Klepzig, Schneider Electric, Deutschland

Das US Bundes-Energiemanagement Programm

- Nicolas Baker, MA, U.S. Department of Energy, USA

Energie-Contracting Beispiele aus Spanien

- Elena González Sánchez, MSc., National Association of Energy Services Companies, Spanien

Energie-Contracting für Unternehmen

- Klaus Dorninger, MBA, Energie AG Oberösterreich Power Solutions, Österreich

Das "Picardie Pass Rénovation" Programm

- Dr. Alice Morcrette, Picardie Public Office for Energy Efficiency, Frankreich

Superhomes – Gebäuderenovierung mit System

- Paul Kenny, BE CEng MIEI, Tipperary Energy Agency, Irland

19.00 Abendprogramm



E-Mobility & Smart Buildings Conference European Nearly Zero Energy Buildings Conference



3 March

09.00 Towards renewable e-mobility

The mobile disruption: How e-mobility changes our society

- Roel Swierenga, Hansa Green Tours, The Netherlands

Vehicle technologies: status quo and perspectives

- Matthias Busse, Fraunhofer-IFAM, Germany

How green and cost efficient are electric vehicles?

- Joeri van Mierlo, Vrije Universiteit Brussel/MOBI, Belgium

Showcase programme e-mobility Germany

- Bertram Harendt, Deutsches Dialog Institut, Germany

Lessons from the world leading e-mobility market

- Tormod Bergheim, Norsk elbilforening, Norway

Building, living and charging

New building standards for e-mobility

- Stefan Lösch, AktivPlus, Germany

Vehicles to buildings: electric cars as storage systems

- Cristina Corchero, Catalonia Institut for Research, Spain

24 hours of sun

- Martin Hackl, Fronius International, Austria

Commercial buildings: optimising renewables, e-mobility and storage

- Juan Fraga, Wynnertech, Spain

Experience from 25,000 charging stations

- Gerhard Wimmer, KEBA, Austria

13.00 End of the conference

13.30 - 17.45 Site Visit Nearly Zero Energy Buildings

Konferenz "E-Mobilität & smarte Gebäude" Europäische Niedrigstenergie-Gebäude Konferenz



3. März

09.00 E-Mobilität mit erneuerbarer Energie

Wie E-Mobilität unsere Gesellschaft verändert

- Roel Swierenga, MSc, Hansa Green Tours, Niederlande

Fahrzeugtechnik: Status quo und Perspektiven

- Prof. Dr.-Ing. Matthias Busse, Fraunhofer-IFAM, Deutschland

Wie umweltfreundlich und wirtschaftlich sind Elektrofahrzeuge?

- Prof. Dr. Joeri van Mierlo, Vrije Universiteit Brussel/MOBI, Belgien

Schaufenster-Programm Elektro-Mobilität Deutschland

- Dr. Bertram Harendt, Deutsches Dialog Institut, Deutschland

Erfahrungen vom führenden Land in Sachen E-Mobilität

- Tormod Bergheim, MoM, Norsk elbilforening, Norwegen

Bauen - Wohnen - Laden

Neue Haustechnikstandards für Elektro-Mobilität

- Dr. Stefan Lösch, AktivPlus, Deutschland

Elektroautos als Stromspeicher

- Dr. Cristina Corchero, Catalonia Institut for Research, Spanien

24 Stunden Sonne

- Ing. Martin Hackl, Fronius International, Österreich

Nicht-Wohngebäude: Optimierung von erneuerbarer Energie, E-Mobilität und Speichern

- Dipl.-Ing. Juan Fraga, Wynnertech, Spanien

Erfahrungen von 25.000 E-Auto-Ladestationen

- Gerhard Wimmer, KEBA, Österreich

13.00 Konferenzende

13.30 - 17.45 Fachexkursion Niedrigstenergie-Gebäude



European Energy Efficiency Watch Conference European Nearly Zero Energy Buildings Conference



3 March

09.00 Energy efficiency policy workshop (in English only)

Update on European building policies

- Paul Hodson, European Commission, DG Energy

Key policy conclusions from the European Energy Efficiency Watch project

- Nils Borg, eceee

Upskilling the construction sector to reach European energy targets

- Zoe Wildiers, European Commission, EASME

Implementing European Directives (EED, EPBD)

Financing energy efficiency in private housing

- Gabriella Azzolini, ENEA, Italy

Implementing energy audit programmes in Member States

- Anke Brems, DNV GL, The Netherlands

Smart meter rollout to end consumers

- Francisco Puente, ESCAN, Spain

Energy advice for deep retrofits

- Catrin Maby, Energy Advice Exchange, UK

A new approach to energy efficiency services

- Michael Körber, MPW, Germany

Energy use plans for cities and quarters

- Oliver Zadow, Landeshauptstadt München, Germany

Indoor environment quality requirements versus energy performance

- Jarek Kurnitski, Tallinn University, Estonia

The Energy Performance Buildings Standards

- Jaap Hogeling, ISSO, The Netherlands

13.00 End of the conference

13.30 - 17.45 Site Visit Nearly Zero Energy Buildings

The European Energy Efficiency Conference is organised as part of the IEE-project "Energy Efficiency Watch 3" (EEW3): www.energy-efficiency-watch.org

Die Europäische Energieeffizienz Konferenz findet im Rahmen des IEE-Projektes "Energy Efficiency Watch 3" (EEW3) statt: www.energy-efficiency-watch.org





1 March

09.00 Key research issues for buildings & energy (in English only)

Opening & welcome

- Christine Öhlinger, OÖ Energiesparverband, Austria

Building innovation for new energy systems

- Theodor Zillner, Federal Ministry for Transport, Innovation & Technology, Austria

Innovation in building materials and construction

- Klaus Peter Sedlbauer, Fraunhofer-IBP/Fraunhofer Allianz Bau, Germany

The "EeB PPP" programme: key instrument of European sustainable building research ■ Emmanuel Forest, European Construction Technology Platform

Building Energy Epidemiology: connecting buildings, energy and people

- Ian Hamilton, University College London, UK

The next generation of high efficiency buildings

- Hans-Peter Ebert, ZAE, Germany

Highlights from building and energy research

The Intelligent Energy Europe: disseminating building innovation

- Janna Schönfeld, European Commission, EASME

BUILDSMART: market-ready building solutions

- Roland Zinkernagel, City of Malmö, Sweden

NEED4B: selecting cost-effective technologies in the building design phase ■ María Izquierdo, CIRCE, Spain

INSPIRE: a new process for deep energy renovation

- Chiara Dipasquale, EURAC, Italy

Turning European shopping malls into beacons of energy efficiency ■ Matthias Haase, SINTEF, Norway

Composites from industrial waste - a novel and affordable building material ■ Martha Emilia Poisot, Universidad del Papaloapan, Mexico

Lunch break



14.00 Parallel Session (in English only)

Session 1: Young Researchers Conference: Energy Efficiency (see next page)

Session 2: Energy in Time (EiT)

Organised in the context of FP7 project Energy in Time

The EiT project: Filling the gap between actual and predicted consumption

- Belén Gómez-Urbarri, Acciona Infraestructuras, Spain

EiT integrated solutions for building control Data mining to improve building operation

Generating automatic operational plans

- Carlos Fernández, Universidad de Granada, Spain

Fault diagnosis and adaptive control of VAV dampers

- Tejaswinee Darure, Université de Lorraine, France

Implementing and analysing EiT solutions in four demo sites (Helsinki, Levi, Faro and Bucharest)

- Heikki Rostila, Caverion, Finland

Chairpersons: María Izquierdo, CIRCE & Belén Gómez-Urbarri, Acciona Infraestructuras

Session 3: Multifunctional ETFE modules

Organised in the context of FP7 project ETFE-MFM

Textile-based architecture

- Karsten Moritz, Taiyo Europe, Germany

Different active and passive building strategies

- Juan Ramón de las Cuevas, Acciona, Spain

Building-integrated PV in architectural textiles

- Ana Rosa Lagunas Alonso, Cener, Spain

Development & demonstration of flexible multifunctional ETFE modules ■ Armando Menendez, ITMA, Spain

Session 4: TRIBE - Gamification of energy efficiency

Organised in the context of Horizon 2020 project TRIBE

The TRIBE project - training behaviour towards energy efficiency: Play it! ■ Eduardo Cembrano, CIRCE, Spain

Measures and actions for energy efficiency in public buildings ■ David Zambrana, CIRCE, Spain

Achieving behavioural change via gamification

- Patrick Hart, University of Graz, Austria

ICT solutions for monitoring and control in public buildings ■ Raquel García, ACCIONA, Spain

Designing, implementing and playing - a game for behavioural change

- Erik Einebrant, The Interactive Institute, Sweden

Chairperson: Eduardo Cembrano Burgos, CIRCE

19.00 Evening programme

Young Researchers Conference: Energy Efficiency



A conference to present the work of young researchers in the field of energy efficiency (in English only)

1 March

14.00 Opening & welcome

Gerhard Dell/Christiane Egger, OÖ Energiesparverband

Cooling performance of phase change material systems

- Modar Yasin / Helmut Weinläder / Felix Klinker, ZAE Bayern, Germany

Building envelope optimisation towards overall energy performance improvements

- Norbert Harmathy, Budapest University of Technology, Hungary

Designing zero net energy residential buildings for different Iranian climate zones

- Ahmadreza Armaninia, Sharif University of Technology, Iran

Model predictive control for efficient house heating

- Pierre Vogler-Finck, Aalborg University, Denmark

Flink – a central management system for smart homes

- Almin Hasandic, International Burch University in Sarajevo, Bosnia and Herzegovina

Mathematical models for analysing the lighting system in a room with blinds

- Marek Balsky / Zuzana Panska / Jan Zalesak / Jiri Pavlousek, Czech Technical University in Prague, Czech Republic

Multiperiod model for the optimal production planning for technical gases

- David Fernández Linares / Laureano Jiménez, Universitat Rovira i Virgili, Spain; Rubén Folgado, Messer Ibérica de Gases, Spain

Improved desalination using solar multi-effect distillation in Mediterranean regions

- Roshan Chandwankar, University of Applied Sciences Upper Austria

Heat pipe heat exchanger for heat recovery applications

- Maksym Lozovyi, National Technical University of Ukraine

Heat recovery from sewage water: system design and analysis

- Danijela Kardaš, Faculty of Mechanical Engineering Banja Luka, Bosnia and Herzegovina

Methodology for quality checks for efficient buildings

- Magdalena Hajdukiewicz / Jamie Goggins / Marcus Keane, National University of Ireland Galway, Ireland

Mapping tools on energy efficiency in buildings for policy-making support

- Ksenia Petrichenko, Copenhagen Centre on Energy Efficiency, Denmark

The correlation between building marketability, energy efficiency and aesthetics

- Yusuf Cihat Aydin / Parham Ahranjani Mirzaei, University of Nottingham, UK

Mapping of energy efficiency indicators

- Aristeidis Tsakiris, Copenhagen Centre on Energy Efficiency, Denmark

Including environmental perspectives in slum rehabilitation in Mumbai, India

- Ashwini Bhosale / Yogesh Patil, Design Infinity Firm, India

Boosting the NZEB market transition

- Jonathan Volt, Building Performance Institute Europe

Energy efficient home refurbishment: survey on influencing factors

- Robert Baumhof / Thomas Decker / Klaus Menrad, Straubing Center of Science, Germany

Assessing the role of digital grids in empowering an energy efficient culture

- Shu Xian Toh, University of Coimbra, Portugal

Demand side infrastructure for energy security

- Filippos Anagnostopoulos / Dan Staniaszek, Building Performance Institute Europe

Chairperson:

Reinhold Priewasser, Johannes Kepler University, Austria



European Pellet Conference 2017 Europäische Pelletskonferenz 2017



1 March

09.00 Pellet policies and markets

Opening & welcome

- Michael Strugl, Regional Minister for Energy, Upper Austria
- Gerhard Dell, OÖ Energiesparverband, Austria

Bioenergy in the EU "Clean Energy Package"

- Giulio Volpi, European Commission, DG Energy

The European pellet market – status quo and outlook

- Gilles Gauthier, AEBIOM

Effective policy mechanisms for pellets in Europe

- Calliope Panoutsou, Imperial College Centre for Energy Policy & Technology, UK

Smart bioenergy – the role of pellets in the new energy system

- Volker Lenz, DBFZ (German Biomass Research Centre), Germany

Pellets for smart buildings

- Christiane Egger, OÖ Energiesparverband, Austria

The competitive position of biomass

- Ben Moxham, Enviva, USA

Communicating pellets through social media

- Linda Saulite, Vizeum, Latvia

Lunch break



1. März

09.00 Pelletsstrategien und -märkte

Eröffnung & Begrüßung

- LR Dr. Michael Strugl, Energielandesrat Oberösterreich
- Dr. Gerhard Dell, OÖ Energiesparverband, Österreich

Bioenergie im EU "Clean Energy Package"

- Giulio Volpi, MA, Europäische Kommission, GD Energie

Der europäische Pelletsmarkt – Status quo und Ausblick

- Gilles Gauthier, MSc, AEBIOM

Wirksame Strategien für Pellets in Europa

- Dr. Calliope Panoutsou, Imperial College Centre for Energy Policy & Technology, Großbritannien

Smart Bioenergy – die Rolle von Pellets im neuen Energiesystem

- Dr.-Ing. Volker Lenz, DBFZ (Deutsches Biomasseforschungszentrum), Deutschland

Smart Buildings & Pellets

- Mag. Christiane Egger, OÖ Energiesparverband, Österreich

Die Positionierung von Biomasse im Wettbewerb

- Ben Moxham, BA, Enviva, USA

Social Media Kommunikation zu Pellets

- Linda Saulite, MSc, MBA, Vizeum, Lettland

Mittagspause



European Pellet Conference 2017 Europäische Pelletskonferenz 2017



1 March

14.00 Biomass CHP – innovation from Upper Austria

- Ernst Höftberger, bioenergy2020+
- Stefan Ortner, ÖkoFEN
- Anton Hofer, Hargassner
- Wolfgang Aichinger, Fröling
- Hans-Jürgen Brandt, Frauscher Thermal Motors

World Pellet Business & Technology Forum

Challenges in pelletising different raw materials

- Werner Sitzmann, Amandus Kahl, Germany

Material changes during steam explosion of bark

- Peter Björklund, Valmet AB, Sweden

The range of the pellet quality class A1 – worldwide

- Hans Martin Behr, Deutsches Pelletinstitut, Germany

Pellets from scrubs

- Pablo Rodero Masdemont, Avebiom, Spain

Successful bioheat projects in educational and commercial buildings

- Mark Froling, Froling Energy, USA

Cost-benefit analysis of technologies to reduce fine dust

- Hubert Röder, Wissenschaftszentrum Straubing, Germany

The gamut of bioenergy: from first nations to the oil industry

- Jamie Stephen, TorchLight Bioresources, Canada

Pellet Business Cooperation Platform

19.00 Evening programme



1. März

14.00 Biomasse KWK – Innovationen aus Oberösterreich

- DI Dr. Ernst Höftberger, bioenergy2020+
- DI (FH) Stefan Ortner, ÖkoFEN
- Ing. Anton Hofer, Hargassner
- Prok. Ing. Wolfgang Aichinger, Fröling
- DI Hans-Jürgen Brandt, Frauscher Thermal Motors

World Pellet Business & Technology Forum

Herausforderungen bei der Pelletierung verschiedener Rohmaterialien

- Prof. Dr.-Ing. Werner Sitzmann, Amandus Kahl, Deutschland

Materialveränderungen von Rinde durch das Dampfexplosionsverfahren

- DI Peter Björklund, Valmet AB, Schweden

Die Bandbreite der A1 Pelletsqualität – weltweit

- Hans Martin Behr, Deutsches Pelletinstitut, Deutschland

Pellets aus Unterholz

- Pablo Rodero Masdemont, BSc, Avebiom, Spanien

Erfolgreiche Biomasse-Projekte in Ausbildungs- und Betriebsgebäuden

- Mark Froling, BA, Froling Energy, USA

Technologien zur Feinstaubreduktion: Kosten-Nutzen-Analyse

- Prof. Dr. Hubert Röder, Wissenschaftszentrum Straubing, Deutschland

Bioenergieprojekte – von den First Nations bis zur Ölindustrie

- Dr. Jamie Stephen, TorchLight Bioresources, Kanada

Pellet Business Cooperation Platform

19.00 Abendveranstaltung





2 March

09.30 New micro- and small-scale biomass CHP technologies (in English only)

Introduction ERA-NET project "Small-scale biomass based CHP"

- Ingwald Obernberger, BIOS Bioenergiesysteme, Austria

New micro-CHP technology for pellet stoves with a thermoelectric generator

- Gerhard Weiß, BIOS Bioenergiesysteme, Austria

New micro-CHP technology for small-scale pellet boilers with an Organic Rankine Cycle

- Paul Roßmann, Technologie- und Förderzentrum, Germany / Jürgen Fernengel, Orcan Energy, Germany

Small-scale CHP system based on a micro-gas turbine

Overall concept

- Sven Hermansson, SP Technical Research Institute of Sweden

Numerical modelling and experimental investigation of a high-temperature heat exchanger

- Pawel Bocian, Institute of Power Engineering, Thermal Processes Department, Poland

Ash related issues in indirectly-fired gas turbines with biomass fuels

- Marcus Öhman, Luleå University of Technology, Sweden

Discussion, conclusions and outlook

- Ingwald Obernberger, BIOS Bioenergiesysteme, Austria

This session is organised as part of the ERA-NET project: "Small-scale BM based CHP" in cooperation with BIOS: www.minibiochp.eu

12.30 End of the session



09.30 Pellet Market News Worldwide Updates and outlook on European and global markets (in English only)

Austria: initiatives to develop non-domestic use of pellets

- Christian Rakos, proPellets Austria

Germany: the energy transition in the heat market

- Martin Bentele, DEPV

UK: opportunities and threats

- Mark Lebus, LC Energy

Baltic countries: update on Baltic pellet production

- Didzis Palejs, Latvian Biomass Association

Norway: challenges of a small pellet market

- Martin Kristensen, Norsk Bioenergiforening

Canada: home market and export trends

- Gordon Murray, Wood Pellet Association of Canada

South Korea: outlook on price and demand

- Alan Seung-rok Lee, SY ENERGY Group

Japan: the dilemma of feed-in tariffs and heat markets

- Kenichiro Kojima, Pellet Club

Chile: markets and technologies

- Laura Azócar Ulloa, Universidad de La Frontera

Tasmania & Australia: challenges and experiences

- Mervyn Jones, Wood Pellets Tasmania

Chairperson:

Gordon Murray, Wood Pellet Association of Canada

13.00 End of the session



Young Researchers Conference: Biomass



A conference to present the work of young researchers in the field of biomass (in English only)

2 March

14.00 Opening and welcome

- Gerhard Dell / Christiane Egger, OÖ Energiesparverband

Retrofit of gas-fuelled boilers and engines with biomass gasifiers ■ Federica Carnicelli, European Institute for Energy Research, Germany

Technical potential of biomass-derived synthetic natural gas production in Ireland ■ Alessandro Singlitico / Jamie Goggins / Rory F.D. Monaghan, National University of Ireland Galway, Ireland

Investigation of real life operation of biomass room heating appliances ■ Marius Wöhler, University of Applied Forest Sciences Rottenburg, Germany

Design operability and retrofit analysis framework for biomass energy systems ■ Viknesh Andiappan Muragappan, Taylor's University Malaysia

Assessing the sustainability of agricultural biomass flows for bioenergy ■ Oludunsin Tunrayo Arodudu, Leibniz Centre for Agricultural Landscape Research, Germany

Design and installation of a household anaerobic digester ■ Omer Salim, Sudan University of Science & Technology, Sudan

Repeatability in particulate and gaseous emissions from pellet stoves ■ Rebecca Trojanowski, Brookhaven National Laboratory, USA

Reproduction of Fe/MgO and Co/Fe catalysts for the production of light alkenes ■ Jens Schneider, Deutsches Biomasseforschungszentrum, Germany

Catalytic activity and selectivity of noble metals for HDO of eugenol ■ Ana Bjelic, National Institute of Chemistry, Slovenia

Microalgae as a feedstock for bioenergy and carotenoids: a biorefinery approach

- Nadia Berrejeb / Issam Smaali, National Institute of Applied Sciences and Technology, Carthage University, Tunisia

Two strategies for sustainable biomass valorisation with ionic liquids

- Andre M. da Costa Lopes / Rafal Lukasik, National Laboratory for Energy and Geology, Portugal

Using heavy metal contaminated wastewater in bioethanol production

- Alica Bartošová / Lenka Blinová, Slovak University of Technology in Bratislava, Slovakia

Dynamic modelling of the thermal behaviour of a combined biomass-solar system

- Mohamed Krarouch, Cadi Ayad University, Morocco

Nutrient removal in willow biomass harvested in Northern New York

- Daniel De Souza, College of Environmental Sciences and Forestry, State University of New York, USA

Wood pellet export from Russia to its six main importing countries ■ Svetlana Proskurina, Lappeenranta University of Technology, Finland

Comparative analysis of biomass promotion measures of the EU and the Russian Federation

- Yana Palkina / Irina Malaykina / Anastasiya Kupriyanova, Saint-Petersburg State Economic University, Russia

A systems perspective on the shift to modern wood heating ■ Laura Edling, University of Vermont, USA

Chairperson: Walter Haslinger, bioenergy2020+, Austria



Interactive events



Tradeshow "Energiesparmesse"

The Energiesparmesse, a leading tradeshow on energy efficiency and renewable energy, is held in parallel with the conferences. This event attracts around 100,000 visitors and about 1,600 exhibiting companies annually.

- **Visiting days for professionals: 1 - 2 March**
- **Days for the general public: 3 - 5 March**
- **Opening times: 9.00 - 18.00**

Cooperation Platform

The Cooperation Platform offers companies and research organisations the opportunity to meet potential cooperation and business partners from all over the world in individually-planned meetings.

Site Visits

Excursions by bus to interesting sites in the surrounding area

- **Pellets & Wood Chips:**
Tuesday, 28 February, 8.30 - 19.00
- **NZEBs:**
Friday, 3 March, 13.30 - 17.45

Poster Presentation

The Poster Presentation offers the opportunity to display successful sustainable energy initiatives and projects implemented by your company or organisation. It is an opportunity to present results of EU projects to international experts.

Further information:
www.wsed.at/en/poster-presentation

Interaktive Events



Energiesparmesse

Die Energiesparmesse, die parallel zur Konferenz stattfindet, ist die führende Messe im Bereich Energieeffizienz und erneuerbare Energie mit mehr als 100.000 Besucher/innen und 1.600 Ausstellern jährlich.

- **Fachbesuchertage: 1. - 2. März**
- **Publikumstage: 3. - 5. März**
- **Öffnungszeiten: 9.00 - 18.00**



Kooperationsplattform

Die Kooperationsplattform bietet Unternehmen und Forschungseinrichtungen die Möglichkeit neue Kooperationspartner aus der ganzen Welt zu treffen. Die Meetings werden individuell geplant (nur in Englisch).



Fachexkursionen

Fachexkursionen mit dem Bus zu interessanten Anlagen in der Umgebung

- **Pellets & Hackschnitzel:**
Dienstag, 28. Februar, 8.30 - 19.00
- **Niedrigstenergie-Gebäude:**
Freitag, 3. März, 13.30 - 17.45



Poster-Präsentation

Bei der Poster-Präsentation haben Sie die Möglichkeit, erfolgreiche Projekte aus dem Bereich nachhaltige Energie zu präsentieren. Sie bietet auch die Gelegenheit, Ergebnisse aus EU-Projekten den internationalen Expert/innen vorzustellen.

Weitere Informationen:
www.wsed.at/poster-presentation



The conference organiser



The OÖ Energiesparverband

The OÖ Energiesparverband, the organiser of the World Sustainable Energy Days, is the energy agency of Upper Austria. Located in Linz/Austria, it was set up to promote energy efficiency, renewable energy sources and innovative energy technologies. Its main target groups are private households, companies and public bodies.

The OÖ Energiesparverband is also responsible for the management of the Oekoenergie-Cluster (www.oec-en.at), the network of 160 renewable energy and energy efficiency companies in Upper Austria. Together, the partner companies have more than 9,400 employees and a turnover of more than 2.3 billion Euro. Among the OEC companies are European market leaders in biomass boilers and energy efficiency technologies.

*Further information on the OÖ Energiesparverband and the Oekoenergie-Cluster at:
www.esv-en.at, www.oec-en.at*

Upper Austria

The region of Upper Austria is one of Austria's nine regions and has a population of 1.4 million. It is the leading industry region in Austria. In the field of renewable energy and energy efficiency, Upper Austria also plays a leading role. 36 % of the primary energy consumption in the region are produced from renewable energy sources (mostly biomass, hydro and solar). Energy is also a key issue for Upper Austria as a business location.



Der Konferenzveranstalter



Der OÖ Energiesparverband

Der OÖ Energiesparverband, der Veranstalter der World Sustainable Energy Days, ist eine Einrichtung des Landes Oberösterreich mit dem Ziel, Energieeffizienz und erneuerbare Energieträger zu fördern. Er ist die zentrale Anlaufstelle für Energieinformation und einer der größten Anbieter von Energieberatung in ganz Europa.

Der OÖ Energiesparverband ist auch für das Management des Oekoenergie-Clusters (www.oec.at) verantwortlich, dem Netzwerk der 160 Oekoenergie-Unternehmen Oberösterreichs. Gemeinsam beschäftigen die OEC-Partner über 9.400 Personen und erzielen einen Umsatz von über 2,3 Milliarden Euro. Zu den OEC-Partner-Unternehmen gehören die marktführenden Unternehmen im Bereich Biomasse-Kessel und Energieeffizienztechnologien.

Weitere Informationen über den OÖ Energiesparverband und den Oekoenergie-Cluster:
www.energiesparverband.at, www.oec.at

Oberösterreich

Oberösterreich, eines der neun österreichischen Bundesländer, ist eine Region mit 1,4 Millionen EinwohnerInnen und die führende Industrieregion Österreichs. Im Bereich der Energieeffizienz und der Nutzung erneuerbarer Energieträger nimmt OÖ eine Vorreiterrolle in Europa ein. 36 % des Energieverbrauchs werden in OÖ durch erneuerbare Energie (v. a. Biomasse, Wasserkraft und Solar) gedeckt. Das Energiethema ist auch wichtig für den Wirtschaftsstandort.



World Sustainable Energy Days 2017



Date 1 - 3 March 2017

Venue Stadthalle Wels, Pollheimerstrasse 1, 4600 Wels, Austria

Conference languages
English, German
(simultaneous interpretation)

Conference fees

- 410 € for all WSED conferences and the Site Visits (28 February - 3 March)
 - 330 € for all WSED conferences (1 - 3 March)
 - 300 € for the European Energy Efficiency Conference (1 - 3 March)
 - 205 € each for the Pellet Conference and the NZEB Conference
 - 100 € each for the following conferences: Young Researchers, Efficiency Watch, Energy Services, E-Mobility, Research
 - For student fees see www.wsed.at
- All fees plus 10 % VAT

Organisation and 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
ZVR171568947, ATU 39283707

Registration

Please register online at www.wsed.at

How to reach Wels?

- by railway: direct connections from Vienna, Linz, Salzburg, Munich, 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)



Datum 1. - 3. März 2017

Ort Stadthalle Wels, Pollheimerstraße 1, 4600 Wels, Österreich

Sprachen
Deutsch, Englisch
(Simultanübersetzung)

Konferenzbeiträge

- 410 € für alle WSED Konferenzen und die Fachexkursionen (28.2.-3.3.)
 - 330 € für alle WSED Konferenzen (1.-3.3.)
 - 300 € für die Europäische Energieeffizienz Konferenz (1.-3.3.)
 - 205 € je für die Pelletskonferenz und Niedrigstenergie-Gebäude
 - 100 € je für die folgenden Konferenzen: Young Researchers, Efficiency Watch, Energiedienstleistungen, E-Mobilität, Forschung
 - Tagungsbeiträge für Studierende unter: www.wsed.at/dt
- Alle Beiträge zzgl. 10 % MWSt.

Organisation und Tagungsbüro

OÖ Energiesparverband
Landstraße 45, 4020 Linz, Österreich
Tel. +43/732/7720-14386
office@esv.or.at,
www.esv.or.at, www.wsed.at/dt
ZVR171568947, ATU 39283707

Anmeldung

Bitte verwenden Sie die Online-Anmeldung auf: www.wsed.at/dt

Wie kommen Sie nach Wels?

- Bahn: direkt von Wien, Linz, Salzburg, München, etc.
- PKW: Autobahnen A1 & A25
- Flugzeug: Flughäfen Linz (17 km von Wels), Wien (222 km), Salzburg (110 km), München (247 km)



#WSED

WWW.WSED.AT



Co-funded by the Intelligent Energy Europe Programme of the European Union

