Detailed conference programme

Panel 1: Processes and technologies to meet future challenges
Panel leaders: *Meta Thurid Lotz, Fraunhofer ISI & Enrico Cagno, Politecnico di Milano*

Panel 2: Energy management and corporate culture
Panel leaders: *Erik Gudbjerg, Director at yourenergy & Rod Janssen, Energy in Demand and President, Energy Efficiency in Industrial Processes*

Panel 3: Drivers to change
Panel leaders: Ivana Rogulj, IEECP & Jorge Rodrigues de Almeida, RdA Climate Solutions

Programme day 1: Tuesday 30 January 2024

09.00–10.00 Coffee and registration

10.00–12.00 Opening plenary: Setting the scene for industrial decarbonisation

10.00–10.10 Opening and welcome addresses

Welcome address | *Nils Borg*, Executive Director
Moderator: *Arianna Vitali*, Coalition for Energy Savings

10.10–11.30 Keynotes

The need for doubling the global rate of energy efficiency improvement & trends in the IEA Energy Efficiency 2023 report | *Mine Isik*, Energy Efficiency and Inclusive Transitions at IEA (International Energy Agency), Paris.

What country is the EU champion on energy efficiency? The eceee & Odyssee-Mure 2023 scoreboard report | *Wolfgang Eichhammer,* Fraunhofer ISI and Odyssee-Mure

Challenges and opportunities for the chemical and life science industries | *Els Brouwers,* Essencia, the Belgian federation of the chemical industry and life sciences sector

The Risk of Decoupling Efficiency and Decarbonization. Market trends, challenges & opportunities | *Drew Turner*, Danfoss Climate Solutions, Sector Coupling.

11.30–12.00 Roundtable

12.00–13.00 Lunch and networking

13.00–14.30 Parallel panel sessions #1

Panel 1: Processes and technologies to meet future challenges Energizing the industry in a more sustainable way #1	**Panel 2: Energy management and corporate culture** ***Energy Audits***	**Panel 3: Drivers to change** ***Sectoral transitions (1)***
Calculating the investment needs in European industry for the 2030 energy efficiency targets. (Abstract #45) | *Iolanda Saviuc*, The Joint Research Centre of the European Commission, Italy. IN4climate.RR - Towards Climate Neutrality for the Industry in Germany's Rhenish Lignite Mining area (Abstract #67) | *Dirk Petersohn,*In4Climate.rr, Germany Techno-economic potential of flexible industrial processes in the context of the energy transition: Case study for a process chain of metal industry. (Abstract #27) | *Christian Schwotzer,* RWTH Aachen University, Germany. A techno-economic study of process heat decarbonisation pathways for the brewing industry. (Abstract #51) | *Samuel Birch*, University of Leeds, United Kingdom.	Empowering Industry: Transformative Strategies for Enhanced Energy Efficiency in Compressed Air Systems. (Abstract #54) | *Elvira Rakova*, Direktin, Italy. Accelerating Energy Efficiency in EU SMEs with Digital Energy Efficiency Checks. (Abstract #17) | *Martin Haagen*, eeaser GmbH, Germany. The importance of energy audits in promoting energy efficiency among SMEs: Results from industry interviews. (Abstract #44) | *Gatis Žogla*, Ekodoma Ltd., Latvia. Innovation and digital development within MSMEs in the Italian context. (Abstract #15) | *Francesca Meroni*, Italy.	Decarbonisation of the German Glass Industry. (Abstract #22) | *Peter Radgen*, University of Stuttgart, Institute for Enery Economics and Rational Energy Use (IER), Germany. Resource efficiency of EU clinker manufacturing - the role of country and community policy. (Abstract #16) | *Ana Morgado*, University of Cambridge, United Kingdom. Defining climate-friendly cement for green lead markets - Insights from stakeholder engagement in Germany. (Abstract #37) | *Meta Thurid Lotz*, Fraunhofer Institute for Systems and Innovation Research, Germany. Accelerating cement decarbonisation through better standards. (Abstract #57) | *Joren Verschaeve*, ECOS - Environmental Coalition on Standards, Belgium.

14.30–15.00 Coffee and networking

15.00–16.30 Parallel panel sessions #2

Panel 1: Processes and technologies to meet future challenges ***Energizing the industry in a more sustainable way #2***	**Panel 2: Energy management and corporate culture** ***Energy Management #1***	**Panel 3: Drivers to change** ***Sectoral transitions (2)***
Energy intensity analysis and development of energy performance indicators for the supply chain of External Thermal Insulation Composite Systems (ETICS) for buildings. (Abstract #33) | *Carlos Herce,* ENEA, Italy. The electrification of heat consumption in the paper industry: Two case studies on the implementation of high temperature heat pumps and thermoelectric storage. (Abstract #20) | *Giuseppe Bonforte*, Renovit, Italy. Decarbonisation of drying and cooking processes: application to 3 industrial cases. (Abstract #30) | *Léo Pasquier*, ALLICE, France. Heat pumps for simultaneous heating and cooling in the dairy sector. (Abstract #47) | *Beatrice Marchi*, University of Brescia, Italy.	Alignment of regulatory requirements with energy management practices. (Abstract #64) | *Liam McLaughlin*, GEN Europe, Ireland. Lessons from how California, the world's fifth largest economy, took Energy Management way beyond energy efficiency. (Abstract #23) | *Sergio Dias*, Sergio Dias Consulting, Spain. Can Carbon Neutrality drive Net Zero in industry? (Abstract #11) | *Ian Byrne*, IBECCS Ltd., United Kingdom.	Driving sustainable chemical production: Defining criteria for climate-friendly basic chemicals as a basis to establish green lead markets. (Abstract #28) | *Simon Bußmann*, Germany. Global trade of Direct Reduced Iron (DRI) as a Game Changer for a near-zero Global Steel Industry? - A scenario-based assessment of regionalized impacts. (Abstract #19) | *Süheyb Bilici*, Wuppertal Institute, Germany. A step towards decarbonization of steel industry: an open discussion on how to pave the way to consistent and meaningful energy performance indicators. (Abstract #49) | *Rashida Khalid*, University of Pavia, Italy. Legal obligations for industrial companies to plan their transformation (Abstract #69) | *Erwin Cornelis*, Senior Energy Policy Consultant, Belgium.

16.30–16.45 Short break

16.45-18.30 Workshops arranged by eceee with partners

Developing narratives to support energy efficiency in industry **Workshop within the EU-funded Energy Efficiency Watch 5 project:** The European Green Deal can only become a success if there is sufficient buy-in by stakeholders, voters, the general public. To ensure this, **convincing positive narratives** are needed which explain, why the **industrial transformation is a chance rather than a risk**, what's in for everyone and how it can be well managed. EEW5 aims at collecting narrative examples from different audiences, discussing working hypotheses, and developing key arguments for the ongoing debate. The outcome will be used to develop 10 exemplary narrative cases. The results will be presented to the European Commission. **Workshop leader:** *Daniel Becker*, Partner at Guidehouse, Member of EEW5 project team	**Industrial Resilience: Saving Energy in a Hurry** **Workshop on energy management in industry** While the overall focus of this industrial event is transitioning towards zero carbon in industry, there is also a need to look at our daily environment. The war in Ukraine, with the resulting collapse of natural gas imports from Russia together with the economic fallout from COVID, taught us there is a need to remain vigilant. In 2005, the IEA produced two valuable books – Saving Oil in a Hurry and Saving Electricity in a Hurry (revised in 2011) to deal with temporary shortfalls. T his workshop will look at some of the success cases that industry has had in dealing with the "low hanging fruit." It will also challenge the audience to come up with other low-cost measures that are often overlooked. The workshop will be led by the leaders from panel 2 on energy management Rod Janssen and Erik Gudbjerg. You know they always have their eyes open for finding that extra kilowatt-hour of savings. Please come with your own suggestions! It will be very informative – and entertaining. **Workshop leaders:** Rod Janssen and Erik Gudbjerg

19.00 Conference dinner (use historical entrance, see map)

Programme day 2: Wednesday 31January 2024

09.00–10.30 Plenary: Solutions that can move us forward

9.00–10.00 Keynotes

Moderator: Nils Borg, Executive Director eceee

Digitalisation to support EU's Green Deal Industrial Plan and circular economy ambitions | *Natalie Samovich, Entrepreneur in energy and digital transition*

Process industry toward zero carbon emission: how to combine economy with sustainability? | *Ludo Diels,* Process for Planets

Decarbonisation and electrification in an (unfair) competitive environment, case study | *Emmanuel Raskin,* HSE & Utilities Director at Citribel

Working with companies to decarbnise their operations | *Robin Bruninx*, Encon

10.00–10.30 Panel discussion

All keynote speakers

10.30–11.00 Coffee and networking

11.00–12.30 Parallel panel sessions #3

Panel 1: Processes and technologies to meet future challenges ***Decarbonising industrial value chains: Interplay of production and consumption***	**Panel 2: Energy management and corporate culture** ***Energy Management #2***	**Panel 3: Drivers to change** ***EU level industrial decarbonisation policies***
AIDRES - Advancing Industrial Decarbonisation by Assessing the Future Use of Renewable Energy in Industrial Processes. (Abstract #05) | *Joris Vallee*, VITO/Energy Ville, Belgium. Visualising Sustainability: A Framework for Assessing Resource Efficiency in Industrial Processes. (Abstract #06) | *Natanael Bolson,* University of Cambridge, United Kingdom. 2050 flat glass industry climate neutrality vision: the start of the journey. (Abstract #42) | *Iva Ganev*, Glass for Europe, Belgium. Sleeping Digital Twins: Exploring the appetite, benefits and challenges of whole-life performance modelling. (Abstract #36) | *Suzanne Wallace*, United Kingdom.	Energy manager: a fundamental driver for energy efficiency. (Abstract #41) | *Dario Di Santo,* Fire, Italy. Energize Your Future - the critical connection between energy management and business survival. (Abstract #58) | *An Beazar,* Enprove, Belgium. The implications of EN 17956 on industrial insulation. (Abstract #65) | *Stephan Reichinger*, Rockwool Technical Insulation. Cutting carbon loads in supply chain (transport and packaging). (Abstract #59) | *Matjaž Polak & Maja Tomazin,* DACH + BLX & Global System Knauf Insulation, Germany.	European policies for sustainable and efficient use of energy in industry. (Abstract #53) | *Eric Lecomte*, European Commission, Belgium. Whitepaper: The Role and Impact of Energy Efficiency in the Decarbonization of Industry. (Abstract #32) | *Herbert Zondag*, TNO EERA JP EEIP, The Netherlands. Towards circular, efficient and focused policies to drive the EU industrial decarbonisation. (Abstract #10) | *Stéphane Arditi*, EEB European Environmental Bureau, Belgium. Narratives for the energy transition (Abstract #70) | *Daniel Becker*, Guidehouse, Germany.

12.30–13.30 Lunch and networking

13.30–15.00 Parallel panel sessions #4

Panel 1: Processes and technologies to meet future challenges ***CCUS and its relevance for basic material industries***	**Panel 2: Energy management and corporate culture** ***Audits #2***	**Panel 3: Drivers to change** ***Industrial decarbonisation pathways***
Unlocking Tomorrow's Decarbonization Potential: A Techno-Economic Assessment of Carbon Capture Diffusion in the European Industrial Landscape. (Abstract #60) | *Leandra Scharnhorst*, Karlsruhe Institute of Technology (KIT) Institute for Industrial Production (IIP), Germany. Carbon capture, utilization and storage in the European Union. (Abstract #61) | *Guillermo Martinez Castilla*, European Commission, The Netherlands. Paris-compatibility of cement decarbonisation roadmaps on the global level and of major emitter countries. (Abstract #24) | *Georg Holtz*, Wuppertal Institut, Germany. Comparing FT-crude and methanol processing for production of synthetic fuels (kerosene, diesel, gasoline, naphtha). (Abstract #35) | *Natalia Pieton*, Germany.	Unlocking the potential: Accelerating the adoption of highly efficient motors in Europe's industries. (Abstract #63) | *Diedert Debusscher*, European Copper Institute, Belgium. A new approach to upgrade energy audit outcomes: the Audit2Action strategy within the AUDIT2MEASURE project. (Abstract #09) | *Simone Maggiore*, R.S.E. (Ricerca sul Sistema Energetico) S.p.A., Italy. Energy and data - how data analysis can contribute to reducing consumption at the scale of the SNCF. (Abstract #21) | *Antoine Hubert and Jack Suddaby,* AREP, France. Development of decarbonization strategies of industrial process heating applications - Experiences and case studies. (Abstract #03) | *Astrid Kuijers Hostrup*, Danish Technological Institute, Denmark.	IDRIC – Clustering to drive the global transition to net zero. (Abstract #25) | *Clare Howard*, Industrial Decarbonisation Research and Innovation Centre (IDRIC): Heriot-Watt University, United Kingdom. Increasing energy resilience, saving costs, and curbing emissions with systemic efficiency approaches. (Abstract #55) | *Stefan M. Büttner*, Fraunhofer IPA / University of Stuttgart, EEP – Institute for Energy Efficiency in Production, Germany. Policy instruments for the German industrial transformation – Method of and insights from the integrated projection report 2023. (Abstract #02) | *Matthias Rehfeldt*, Fraunhofer Institute for Systems and Innovation Research, Germany. Transformers – the forgotten opportunity: potentials and a tool to establish cost of ownership. (Abstract #68) | *Michael Scholand*, M2S2 Energy, UK.

15.00–15.30 Afternoon coffeebreak

15.30–17.00 Parallel panel sessions #5

Panel 1: Processes and technologies to meet future challenges ***Hydrogen: From system perspective to utilization***	**Panel 2: Energy management and corporate culture** ***Energy Smorgasbord***	**Panel 3: Drivers to change** ***New business models and financing***
The interplay of industry transition and the future European hydrogen system: A systems modeling study. (Abstract #52) | *Tobias Fleiter*, Fraunhofer Institute for Systems and Innovation Research, Germany. Electrification of the steel industry: Factors governing the geospatial distribution of a new generation of fossil-free steel plants in the EU. (Abstract #18) | *Alla Toktarova*, Chalmers University of Technology, Sweden. A plant-specific approach to model future hydrogen demands in energy-intensive industries. (Abstract #29) | *Marius Neuwirth*, Fraunhofer Institute for Systems and Innovation Research, Germany. Green hydrogen application in the energy-intensive industry: a feasibility study. (Abstract #01) | *Marco Pellegrini*, Department of Industrial Engineering - University of Bologna, Italy.	Insights from a Swedish Power Audit Program: Examining Load Management Readiness and Power Optimization Potential in Manufacturing SMEs. (Abstract #13) | *Simon Johnsson*, Linköping University, Sweden. The promise of industrial demand-side flexibility: results from a qualitative study. (Abstract #48) | *Sebastian Gölz*, Fraunhofer Institut für Solare Energiesysteme ISE, Germany. Evaluating Energy Efficiency Integration into Upstream Supply Chains: A Systematic Literature Review. (Abstract #08) | *Bruna Maria Xavier*, Linköping University, Sweden. Decarbonisation of container terminals — An organisational journey. (Abstract #14) | *Andrea Wiholm*, APM Terminals, Denmark.	Techno-Economic Analysis of the Impact of EU Net-Zero Industry on the Energy System. (Abstract #26) | *Khaled Al-Dabbas*, Fraunhofer Institute for Systems and Innovation Research, Germany. Comparison of Subsidy Schemes for the Decarbonization of Industry in the EU. (Abstract #38) | *Robin Blömer*, Fraunhofer ISI, Germany. Enhancing Energy Efficiency in SMEs with the Multiple Benefits: Insights and Best Practices from the DEESME Project. (Abstract #40) | *Ivan Sangiorgio*, IEECP, Italy. Designing green lead markets for decarbonising energy-intensive industries. (Abstract #34) | *Anna Leipprand*, Wuppertal Institute, Germany.

17.00 End of conference