Monday 14th September  (All times CET) updated 21 August

9.30–11.00 OPENING PLENARY
PROGRAMME TO BE ANNOUNCED

12.00–13.30 (parallel session)
PANEL 1. Policies and programmes to drive transformation
Session I: Understanding what really needs to be done and sharing the necessary knowledge
1-072-20 IMPAWATT – Actions to improve the energy culture Konstantin Kulterer
1-124-20 No time to waste reinventing the wheel – introducing the concept of a pan-European interactive knowledge transfer platform for radical energy savings Cédric Jeanneret
1-138-20 What the industry needs from Energy Efficiency: Reflections on energy efficiency programs in food & beverage sector Adam Pawelas
1-151-20 Five steps to decarbonisation Presented by Rod Jansen

12.00–13.40 (parallel session)
PANEL 2. Sustainable production towards a circular economy
Session I: Circularity and decarbonisation of the cement & building sector
2-013-20 Overcoming the carbon lock-in: A techno-economic analysis of the Spanish cement sector Timo Gerres
2-074-20 Utilization of Industrial and Agricultural By-Products in Blended Cement Mortars – Creating an Effort of Circular Economy in Indian Cement Industry Navdeep Singh
2-137-20 Modeling circular economy action impacts in the building sector on the EU cement industry Matthias Rehfeldt
2-029-20 Roadmap for climate transition in the building and construction industry – a supply chain analysis including primary production of steel and cement Ida Karlsson
2-017-20 Working with sustainability in the insulation industry Soeren Nyborg Rasmussen

12.00–13.30 (parallel session)
PANEL 2. Sustainable production towards a circular economy
Session II: Geographical trigger for circularity and decarbonisation of industrial processes
2-037-20 Simulating geographically distributed production networks of a climate neutral European petrochemical industry Presented by Mathieu Saurat
2-133-20 Assessing the geographical aspects of regional Industrial symbiosis for european regions Reza Vahidzadeh
2-115-20 Business logics for bioeconomy collaborations Jon Williamsson
2-112-20 Methods and Practice to Conduct Agro-Industrial WaterEnergyNexus Assessments Ricardo Amon

12.00–13.30 (parallel session)
PANEL 4. Technology, processes and systems
Session I: Advanced heat pumps
4-003-20 Opportunities for applying high temperature heat pumps in industry Jonathan Jutsen & Jarrod Leak
4-001-20 Environmental impact of high temperature industrial heat pumps – from a global warming potential (GWP) perspective Tor-Martin Tveit
4-132-20 High temperature heat pumps for industrial processes – application and potential Veronika Wilk
4-156-20 Analysis of heat pump integration into drying process for decarbonization in industry Takenobu Kaida

14.00–15.30 (parallel session)
PANEL 1. Policies and programmes to drive transformation
Session II: Connecting with industry to be able to support them more effectively
1-089-20 Energy Efficiency Networks: roll out of a successful concept over the world Clemens Rohde
1-004-20 Shaping a sustainable industry: conclusions from round table meetings Erwin Cornelis
1-015-20 Ennshafen Case Study – Insights into real-life industrial energy cooperation development Matthias Linhart
1-114-20 Leaders in the Industrial Energy Transition Christiane Egger

14.00–15.30 (parallel session)
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14.00–15.30 (parallel session)
PANEL 3. Energy management – in real life
Session I
3-079-20 Understanding the impacts on the industrial operations from the adoption of energy efficiency measures: lessons learnt from Italian case studies Davide Accordini
3-048-20 Human Factors for Energy Management: Features, Fit and Field Study Kelly Smith
3-009-20 Non-Routine Adjustments - Towards Standardizing M&V Approach for Quantifying the Effects of Static Factors Shankar Earni

14.00–15.30 (parallel session)
PANEL 4. Technology, processes and systems
Session I: Advanced heat pumps
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13.30–14.00 Chat room/rest
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15.30–16.00 Chat room
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15.30–16.00 Chat room
Tuesday 15th September  (All times CET) updated 21 August

**9.30–11.00 Side event organised by the Swedish Energy Agency**

FROM GRAMS TO TONNES – Three Swedish initiatives on circular production and electric efficiency  (>> see programme page)

Oliver Johnson, Stockholm Environment Institute.  
Wargön Innovation: Scaling up sustainable material innovations focusing on textiles  
EcoSys: (electricity) efficient processes for mechanical paper pulp production units  
Discussion |
| 12.00–13.30 (parallel session) PANEL 1. Policies and programmes to drive transformation Session III: Taking the pulse of key industry programme approaches |
| 1-129-20 White certificates in industry: M&V, additionality and global outcomes in the Italian scheme Dario Di Santo |
| 1-140-20 Evaluating the Polish White Certificate Scheme Tadeusz Skoczowski |
| 1-025-20 Drawing Insights and Best Practices from Voluntary Energy Efficiency Agreements in Europe and the United States Andre de Fontaine |
| 1-049-20 Development of the Voluntary Agreements System in Ukraine Jakob Mau Pedersen |
| 13.30–14.00 Chat room/rest |

**12.00–13.30 (parallel session) PANEL 2. Sustainable production towards a circular economy Session III: Path for circularity and decarbonization of manufacturing processes**

| 2-125-20 A multi-region representation of an automotive manufacturing plant with the TIMES energy model Senatro Di Leo |
| 2-096-20 Adding Transparency to the Circular Flow of Batteries Sara Fallahi |
| 2-060-20 How to create an open market for second life e-mobility batteries in stationary energy storages Reinhard Ungerböck |
| 2-027-20 A novel business model to reduce energy consumption in industrial automation Elvira Rakova |
| 13.30–14.00 Chat room/rest |

**12.00–13.30 (parallel session) PANEL 3. Energy management – in real life Session II (session title TBD)**

| 3-144-20 Coaching – an effective model for energy efficiency in small and medium-sized industries Presented by Albin Carlen |
| 3-070-20 Establishing energy efficiency in SMEs – energy management to enhance energy efficiency in day-to-day business Werner König |
| 3-007-20 How do companies decide on non-strategic energy efficiency issues? An in-depth study of the decision making process. Joachim Globisch |
| 13.30–14.00 Chat room/rest |

**12.00–13.30 (parallel session) PANEL 4. Technology, processes and systems Session II: New technologies and process improvements**

| 4-126-20 Opportunities to significantly expand & scale electrification of industrial processes Edward Rightor |
| 4-108-20 Decarbonizing Swiss industrial sectors by process integration, electrification and traditional energy efficiency measures M. Jibran S. Zuberi |
| 4-014-20 Digital Technologies driving Efficiency in Electric Motor Driven Systems presented by Jazaer Dawody |
| 4-056-20 Ultra-Low Charge Ammonia Chillers for Energy Efficiency in Industrial Applications Anni Amarnath |
| 15.30–16.00 Chat room |
### Wednesday 16th September  (All times CET) updated 21 August

#### 9.30–11.45 Workshop arranged by IN4climate.NRW

IN4climate.NRW – creating innovations for a decarbonised industry  (>> see programme page)

**09.30** Opening: Prof. Dr. Stefan Lechtenböhmer, Wuppertal Institut

**09.40** IN4climate.NRW: Joining forces for a climate-neutral industrial sector. Dr. Michael Walter, IN4climate.NRW

**09.50** The importance of joining forces to reach the common goal – industry perspective. Christoph Reissfelder, HeidelbergCement and Dr. Hans-Jörg Weddige, thyssenkrupp

**10.20** Developing a climate-neutral industry – a joint task for industry and society – international agencies perspective. Rainer van Loon, EnergieAgentur.NRW, Klara Helstad, Swedish Energy Agency and Thomas Gourdon, ADEME

**10.45** Virtual panel discussion. All speakers

**11.30** Wrap up. Prof. Dr. Stefan Lechtenböhmer, Wuppertal Institut

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### 12.00–13.30 (parallel session)
**PANEL 4. Technology, processes and systems**

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<td>4-057-20 Requirements Engineering and Morphological Analysis of Additive Control Strategies for Flywheel Energy Storage Systems in Industrial Applications</td>
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<td>4-092-20 Double Transmission Double Expansion Technology as method for reducing energy losses associated with oversizing of industrial compressed air systems</td>
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<td>4-109-20 Assessing promising energy efficient technologies for industry still in R&amp;D – application of the EDUAR&amp;D methodology for the case of high temperature electrolyser</td>
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<td>4-155-20 Value chain-wide energy efficiency potentials of additive manufacturing with metals – some preliminary hypotheses</td>
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**13.30–14.00 Chat room/rest**

### 14.00–15.30 (parallel session)

**PANEL 3. Energy management – in real life**

<table>
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<tr>
<th>Session III (session title TBD)</th>
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<td>3-011-20 Integrating Energy Efficiency in investment process - Experience from Scania CV Green Field foundry Project</td>
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<td>3-081-20 Quantifying non-energy benefits for energy-intensive industry – A case study of heat recovery measures in a Swedish oil refinery</td>
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<td>3-157-20 Energy management in the Norwegian sawmill industry</td>
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<td>3-080-20 Identification of optimal measurement points for energy monitoring of industrial processes: the case of milk powder production</td>
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**15.30–16.00 Chat room**

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### 12.00–13.30 (parallel session)
**PANEL 5. Business models and finance in the age of digitalisation**

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<th>Session: Innovative financing</th>
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<td>5-044-20 EFFORCE: how blockchain technology can revolutionize energy efficiency investments</td>
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<td>5-059-20 Innovative approach to use standards in new business models blockchain ready</td>
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<td>5-069-20 Guaranteed and insured energy saving to boost EE investment by SMEs</td>
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<td>5-012-20 De-carbonisation, guaranteed: Realising affordable, equitable and long-term financing for industrial SME projects</td>
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**13.30–14.00 Chat room/rest**

### 14.00–15.30 (parallel session)
**PANEL 5. Business models and finance in the age of digitalisation – Session II: Providing support for financial institutions at the European Level**

| 5-100-20 The Energy Efficiency Financial Institutions Group (EEFIG) as a catalyst for deep decarbonization | Carsten Glenting |
| 5-106-20 EU Taxonomy on sustainable economic activities - assessing the impact on corporate and industrial energy efficiency investments | Bettina Dorendorf |
| 5-042-20 Designing and implementing a capacity building program dedicated to the financial community aiming to boosting energy efficiency investment in the industry | Apolline Abruzzi |

**15.30–16.00 Chat room**

### 12.00–13.30 (parallel session)
**PANEL 6. Deep decarbonisation of industry**

<table>
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<tr>
<th>Session I: The impact on the energy system and the need for infrastructure</th>
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<tr>
<td>6-098-20 Needs of electricity, hydrogen and carbon infrastructure for greenhouse gas neutral heavy industry clusters in the EU 2050</td>
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<tr>
<td>6-024-20 100% Renewable Energy for Austria’s Industry: Alternative Energy Sources and Infrastructure Requirements</td>
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<tr>
<td>6-095-20 The ZEROC project: towards zero CO2-emissions in the Norwegian and Swedish industry – process solutions including associated infrastructure</td>
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<tr>
<td>6-063-20 Electrification of primary steel production based on ΣIDERWIN process: simulation on the European power system in 2050</td>
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**13.30–14.00 Chat room/rest**

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### 14.00–15.30 (parallel session)
**PANEL 6. Deep decarbonisation of industry – Session II: The impact on the energy system and the need for infrastructure**

| 6-065-20 Meta-analysis of industry sector transformation strategies in German, European and global deep decarbonisation scenarios | Sascha Samadi |
| 6-141-20 Deep decarbonisation of the German industry via electricity or gas? A scenario-based comparison of pathways | Tobias Fiechter |
| 6-022-20 GHG neutral pathways for the German chemical industry | Florian Ausfelder |
| 6-043-20 Assessment of transition pathways for the Nigerian cement sector | Maria Yetano Roche |
Thursday 17th September (All times CET) updated 21 August

9.30–11.30 Side event organised by the EnR Industry Working Group Industrial energy audits & energy efficiency in Europe (>> see programme page)

10.30 Welcome and moderation

10.40 Energy audits in industry and Services: challenges and opportunities

10.50 Energy audits in Europe through the lens of the National Energy Agencies

11.05 Discussion and close of session (11.30)

12.00–13.30 (parallel session)

PANEL 4. Technology, processes and systems
Session IV: Scenarios, roadmaps and policies for decarbonisation

4-018-20 Evaluation of Hybrid Electric/Gas Steam Generation for a Chemical Plant under Future Energy Market Scenarios Holger Wertzema

4-036-20 White Certificate on electrical motor driven systems Marc Berthou

4-102-20 Analysis of energy efficiency improvement and carbon dioxide abatement potentials for Swiss Food and Beverage sector Navdeep Bhaddhade

13.30–14.00 Chat room/rest

14.00–15.30 (parallel session)

PANEL 4. Technology, processes and systems
Session V: Optimal use of excess process heat

4-008-20 Effects of process decarbonisation on future targets for excess heat delivery from an industrial process plant Pontus Bokinge

4-053-20 Efficient utilisation of industrial excess heat for carbon capture and district heating Maximilian Biemann

4-073-20 Industrial excess heat and district heating: potentials and costs for the EU-28 on the basis of network analysis Ali Aydemir

15.30–16.00 Chat room

12.00–13.30 (parallel session)

PANEL 5. Business models and finance in the age of digitalisation
Session III: Synergy through cooperation

5-032-20 Bridging the gap: A platform to connect small industrial efficiency projects with the capital markets Jürgen Fluch

5-143-20 Industrial Production Model Cyrielle Borde

5-159-20 How can we best create a synergy between existing electricity-intensive industry, existing materials and energy systems and future Gokhan Kırkılı\n
5-158-20 A New Model for Jointly Purchased Energy Services in Turkish Industrial Parks

13.30–14.00 Chat room/rest

12.00–13.30 (parallel session)

PANEL 6. Deep decarbonisation of industry
Session IV: How to design policies and what the challenges are

6-045-20 Impact of carbon prices on fuel switching in the iron and steel industry Chinenu M Nwachukwu

6-077-20 Towards a Policy Framework for a Hydrogen Future of German Industry Anna Leiprandt

6-082-20 A European industrial development policy for prosperity and zero emissions Lars J Nilsson

6-040-20 Electrify everything! Challenges and opportunities associated with increased electrification of industrial processes Johan Rootzén

13.30–14.00 Chat room/rest

12.00–13.30 (parallel session)

PANEL 5. Business models and finance in the age of digitalisation
Session IV: Increasing Demand for Financial Services

5-062-20 Components of chemical company Paris climate alignment Nate Aden

5-142-20 Risk Mitigation for Industrial Excess Heat Recovery projects Cyrielle Borde

5-146-20 Cooling as a Service: unlocking demand for clean and efficient cooling Dimitris Karamitoss

5-127-20 Financial Carbon Footprint: Calculating Financial Institutions’ Impact on Climate Change Presented by Jens Teubler

13.30–14.00 Chat room

14.00–15.30 (parallel session)

PANEL 6. Deep decarbonisation of industry
Session V: The key role of technologies and processes

6-134-20 Study of decarbonated processes for ammonia and steel production using green hydrogen from electrolysis Jean-Luc Hoxha

6-110-20 Hydrogen technologies for a CO2-neutral chemical industry Magnus Andersson

6-120-20 Net-zero industries Emrah Durusut

15.30–16.00 Chat room