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<tr>
<th>Time</th>
<th>Session 1.A Lighting</th>
<th>Session 1.B Financing</th>
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<tr>
<td>11:00 - 11:30</td>
<td>Coffee break</td>
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Thursday, 12 March
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<tr>
<th>Time</th>
<th>Session 2.A Buildings 1</th>
<th>Session 2.B Cities 1</th>
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| 11:30-13:00  | *Chair:* ERANET Project EPC4SES - first results *Christiana Panteli, Cleopa GmbH, Germany*  
Artificial intelligence for smartness of the efficient and predictive building *Consiglia Mocerino, Sapienza University of Rome, Italy*  
The impact of the new measures on Building Automation and Controls Systems in the revised Energy Performance of Buildings Directive *Peter Hug & Simone Alessandri, European Building Automation and Controls Association (eu.bac), Belgium* | *Chair:* Towards climate-neutral districts with the Service and Advice Center for Energetic Neighborhood Development *David Uong, Berliner Energieagentur GmbH, Germany*  
Development of a bottom-up scenario model for energy city development in the building sector *Daniel Fischer, University of Innsbruck, Austria*  
Development of an urban energy atlas as a tool to support energy retrofitting strategies *Valeria Todeschi, Politecnico di Torino, Italy* |

**13:00-14:00 Lunch break**

**14:00-15:30 Session 3.A Buildings 2**  
*Chair:*  
Development and Application of an Algorithmic Tool Kit to minimise Performance Gaps in Existing Buildings *Lukas Lauss, Technische Universität München, & Jan Mehnert, Technische Universität Braunschweig, Germany*  
BREEAM vs post occupancy data – Benefits and challenges of certification in low carbon schools *Paula Morgensten, BAM Construct UK Ltd, United Kingdom*  
Calibrating a building energy performance simulation model to evaluate the demand-side flexibility potential in an office building *Hermano Bernardo INESC Coimbra, Portugal*  

**Session 3.B Cities 2**  
*Chair:*  
Stuttgart Region’s Climate Strategy – Comprehensive planning for Mitigation and Adaptation *Silvia Weidenbacher, Verband Region Stuttgart, Germany*  
The last achievements of the Covenant of Mayors *Albana Kona, European Commission, Joint Research Centre, Italy*  
Analysis of configurations to integrate commercial high-temperature heat pumps in low-temperature district heating networks *Joan Carles Bruno, Universitat Rovira i Virgili, Spain* |

**15:30-16:00 Coffee break**
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<th>Time</th>
<th>Session 4.A Buildings 3</th>
<th>Session 4.B ESCO 1</th>
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| 16:00-17:30 | **Chair:** Policy instruments for supporting residential building renovation and renewable energy systems at district level **Erwin Mlecnik, TU Delft, The Netherlands**
  
  Boosting energy retrofits in condominiums - Approach and experiences of the European ACER project **Jonas Geissler, Municipal Energy Agency Frankfurt, Germany**
  
  Planning for Carbon Neutral: Australian Case Study **Grace Foo, DeltaQ Pty Ltd, Australia** | **Chair:** Latest developments in the ESCOs market in Germany **Sabrina Strehlke, BAFA, Germany**
  
  Achieving EU’s new climate and energy goals: the impact of ESCOs and EPCs **Volker Dragon, eu.esco, Belgium**
  
  The Global ESCO Network **Søren Lütken, Copenhagen Centre on Energy Efficiency, Denmark** |
## Friday, 13 March

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<tr>
<th>Time</th>
<th>Session 5.A Buildings 4</th>
<th>Session 5.B ESCO 2</th>
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| 09:30-11:00| **Chair:** Data-driven analysis of building use  
*Manuel Weber, Munich University of Applied Sciences, Germany*  
Reliable energy savings of Passive Houses as mandatory basis for NZEB  
*Oliver Ottinger, Passive House Institute, Darmstadt, Germany*  
Room Systems as a Service Platform for Smart Buildings  
*Risto Kosonen, Aalto University, Finland*  | **Chair:** Guaranteed Savings for an Advanced Music Conservatory  
*Joan Vidal, Honeywell Building Solutions, Spain*  
Energy Savings Performance Contracting Project  
Studentensiedlung Ludwig Frank by Studierendenwerk Mannheim AöR  
*Michael Pietzner, E1 Energiemanagement GmbH, Germany*  
Innovative business model to promote high energy efficient Air Conditioners (ACs) through demand aggregation and bulk procurement at an affordable cost  
*Anant Shukla, Energy Efficiency Services Limited, India* |
| 11:00-11:30| Coffee break                                                                          |                                                                                       |
### Session 6.A Buildings 5
**Chair:**

Improving energy efficiency in commercial buildings and smart communities

- **Sustainable Renovation of Heritage Buildings through Implementation of IPD Elements: A Case Study**
  
  Bani feriel Brahmi, AVFM Laboratory, University of Constantine 3, Algeria

- **Uncertainty and Sensitivity Analysis of Operational Faults in Air Handling Units and Unexpected User Behavior for Energy Efficiency and Thermal Comfort**
  
  Lukas Lauss & Andreas Meier, Technische Universität München, Germany

- **Water source heat pump and PV installation to reduce CO2 emissions in drinking water treatment stations**

  Javier Llorente, CENER, Spain

**Session 6.B ESCO 3**

**Chair:**

- **Latest developments of the ESCO in the EU**
  
  Paolo Bertoldi, European Commission, Joint Research Centre, Italy

- **The Eurostat guide on EPC accounting**
  
  Laurent Bender, European Investment Bank

- **Energy service market evaluation by bayesian belief network: case of Turkey**

  Sermin Onaygil, Istanbul Technical University, Turkey

**Time:**

- **11:30-13:00**

- **13:00-14:00** Lunch break

**14:00-15:30**

### Session 7.A Data Centre

**Chair:**

- **Large scale experiments of two data center cooling approaches for Northern European regions**

  Jonas Gustafsson, RISE Research Institutes of Sweden, Sweden

- **Heat Recovery from Data Centres - Challenges and Opportunities**

  Peter Radgen, University of Stuttgart, Germany

- **Wide Area Network Planning for Internet Services**

  Eric Kumar, Carnegie Mellon University in Pittsburgh, USA

### Session 7.B Cities 3

**Chair:**

- **Looking Back to Move Forward: Lessons from Analyzing the Past Community-Wide Energy Use of US Urban Areas**

  Stefan Samarripas, American Council for an Energy Efficient Economy, USA

- **The Journey from Breakthrough Energy and Climate Planning to Sustained Implementation at Sheridan College**

  Peter Garforth, Garforth International LLC, USA

- **Decarbonising the heat sector of a city like Frankfurt**

  Paul Fay, Energiereferat, Germany
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<td>15:30-16:00</td>
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<td>Energy-related Indicators for the Evaluation of Sustainability Performance of Urban Context</td>
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<td><em>Chiara Genta, Politecnico di Torino and Università di Torino, Italy</em></td>
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<td>City of Brampton - Embedding Climate and Energy Planning in its 2040 Vision</td>
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<td><em>Peter Garforth, Garforth International LLC, USA</em></td>
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<td>Development of sustainable energy and action plans in districts</td>
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<td><em>Miguel Morcillo, Climate Alliance, Germany</em></td>
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