



# IEA EBC ExCo – Technical Day

Celebrating 50 years of Energy in Buildings and Communities

4 November 2026 · Palazzo Steri – Sala delle Capriate, Università degli Studi di Palermo

08:30 – 09:00 *Registration*

## 09:00 – 09:30 Institutional Welcome

Prof. Massimo Midiri – Rector, University of Palermo

Prof. Maurizio Cellura – Director, Centre for Sustainability and Ecological Transition, University of Palermo

Prof. Livan Fratini – Director, Department of Engineering, University of Palermo

Dr Giulia Monteleone – Director, Department of Energy Technologies and Renewable Sources, ENEA

Prof. Sara Rainieri – President, Italian National Association of Applied Thermodynamics and Heat Transfer (AssFTI)

## 09:30 – 09:40 Technical Day Introduction

Michele Zinzi, ENEA, Italy

## Technical Contributions

### 09:40 – 09:55 Energy and Buildings Research Activities at the Department of Engineering of the University of Palermo

Marco Beccali, University of Palermo, Italy

### 09:55 – 10:10 Decarbonisation of the Italian Building Stock and Local Specificities

Maurizio Cellura, University of Palermo, Italy

## Session A — Technologies and Methods for the Built Environment

Chair: Francesco Guarino

### 10:15 – 10:35 Life Cycle Assessment of Energy and Environmental Impacts of High-Resolution Electricity Generation Mixes in Net Zero Energy Buildings

Marina Mistretta, Mediterranean University of Reggio Calabria, Italy

### 10:35 – 10:55 IEA EBC Annex 88 on Actual Energy Performance of Heat Pumps in Buildings

Takao Sawachi, Building Research Institute, Japan

10:55 – 11:30 *Coffee Break*

### 11:30 – 11:50 Energy Poverty Definition and Drivers. From an International Overview to a Regional Case Study

Marilena De Simone, University of Calabria, Italy

Under the patronage of



**11:50 – 12:10 Smart Materials for Energy-Efficient, Sustainable Cooling and Dehumidification (Annex 92)**

Menghao Qin, Technical University of Denmark, Denmark

## **Session B — Energy in Communities and Cities**

*Chair: Constance Lancelle, Cerema, France*

**12:10 – 12:30 Positive Energy Districts: Lessons Learned and Results of Annex 83**

Francesco Guarino, University of Palermo, Italy

**12:30 – 12:50 Cooling Cities and Buildings without Harm. Questions and Answers from Three Consecutive EBC Annexes**

Peter Holzer, Institute of Building Research & Innovation, Austria

**12:50 – 13:10 Energy Efficiency and Security in Remote Mediterranean Areas**

Tiziana Susca, ENEA, Italy

**13:10 – 14:30 Lunch Break**

## **Celebrating EBC50 with Inspirational Lectures and Talks**

**14:30 – 14:35 EBC Overview**

Marco Citterio – formerly ENEA, past EBC ExCo Member, Italy

**14:35 – 14:45 EBC Overview**

Meli Stylianou – IEA EBC ExCo Chair, Natural Resources Canada, Canada

**14:45 – 17:20 Invited Lectures**

*Chairs: Daniël van Rijn, Netherlands Enterprise Agency, Netherlands & Marco Citterio, Italy*

**14:45 – 15:25 The Value and Power of Building Stock Data and Analysis**

Paul Ruyseveldt, University College London, United Kingdom

**15:25 – 16:05 From Energy Efficient to Resilient and Net Zero Energy Communities**

Ursula Eicker, Concordia University, Canada

**16:05 – 16:40 Coffee Break**

**16:40 – 17:20 Thermal Comfort: Past, Present, and Future**

Bjarne W. Olesen, Technical University of Denmark, Denmark

**17:20 – 18:05 Panel Discussion — Decarbonisation of the Urban Built Environment: The Role of the IEA EBC Programme**

Meli Stylianou – present EBC ExCo Chair, Natural Resources Canada, Canada

Andreas Eckmanns – past EBC ExCo Chair, Swiss Federal Office of Energy SFOE, Switzerland

Xudong Yang – elected EBC ExCo Chair, Tsinghua University, China

Moderator: Carlos Flores, NABERS, Australia

**18:05 – 18:10 Closing of the Day**

Maurizio Cellura, University of Palermo, Italy