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AiCARR-ASHRAE GROUP

BUILDING DECARBONIZATION AND FUTURE CLIMATE: A MOVING TARGET

January 16th 2023, 2.30 p.m.

Politecnico di Milano Campus Bovisa

Building 25 | Department of Energy

Sala Consiglio | Via Lambruschini 4, Milan



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INDUSTRIAL MEMBERS



The word "decarbonization" is now a focal point in the consideration of possible energy scenarios and strategies. The attention given to the goals of energy efficiency, the large use of renewable sources, and Zero Energy Building, has led to a central focus on the decarbonization options and processes.

The expression "decarbonization" today refers to all measures through which our society reduces its carbon footprint, primarily its greenhouse gas emissions, in order to limit, in a Life Cycle Analysis perspective, its impact on the climate. The built environment and the HVAC sector have a big role to play. The timely and important topic of reducing carbon emissions from buildings implies to discuss how to change the design, construction, ownership, and operation of facilities. The integrated and holistic approach to built environment decarbonization should analyze and combine all the aspects exploring how both new and existing buildings should be configured to use energy with due consideration to the GHG emissions implications.

The scope of this seminar is to present information on the different approaches and to promote discussion and idea exchanges in a worldwide perspective, examining the following aspects:

- operational and embodied emissions of CO₂ and GHG;
- European decarbonization policies and Directives;
- American positions;
- decarbonization of buildings and circular economy.

AGENDA

2.30 p.m. **Attendees registration**

3.00 p.m. **Welcome addresses and seminar opening**

Farooq Mehboob, *ASHRAE President*

Filippo Busato, *AiCARR President*

Luke Leung, *ASHRAE Officer (Member of ASHRAE Board of Directors)*

Cesare M. Joppolo, *AAGroup Executive Committee Member – AiCARR Ex President - Politecnico di Milano*

Chair: Cesare M. Joppolo

3.15 p.m. **European decarbonisation: strategies, political and economic perspective**

Livio de Santoli, *AiCARR Ex President - Università La Sapienza, Roma*

3.45 p.m. **How the Buildings industry can ACT together on climate**

Clay Nesler, *Johnson Controls (retired), Milwaukee*

4.15 p.m. **Embodied or Operational—Which one is higher in the whole life carbon modeling?**

Luke Leung, *SOM, Chicago*

4.45 p.m. **The decarbonization of buildings within a circular economy perspective: zero-carbon materials or zero-energy systems?**

Umberto Berardi, *Toronto Metropolitan University/Politecnico di Bari*

5.15 p.m. **Q & A**

5.30 p.m. **Seminar closing and networking cocktail**

CONTACTS

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Seminar will be in Hybrid mode and in English

To participate to the webinar, please register **by January 14th, 2023** at:
www.aicarr.org or www.ashrae.org

An attendance certificate will be sent under request sending an e-mail to
gabriellalichinchi@aicarr.org