



Rappresentanza Permanente d'Italia  
presso le Organizzazioni Internazionali a Parigi

CONCEPT AND PROGRAMME

***The role of sustainable cooling technologies in the fight against climate change***

Friday 10<sup>th</sup> December 2021, from 11.30 to 1.00 (Paris Time)

The themes of the fight against climate change and the energy transition are increasingly at the centre of the global agenda and consequently of our national commitments.

A large fraction of the world's energy demand is attributed to the air conditioning of buildings, as evidenced by the fact that peak consumption tends to occur more and more in the summer months. The share due to refrigeration is also steadily increasing and is expected to double over the next 20 years.

The efficiency of cooling and heating systems and related technologies will play an increasingly decisive role in the panorama of the fight against climate change. In order to achieve the decarbonisation targets for 2050, the use of renewable energies also in the air conditioning of buildings will be an essential factor, as shown by the IRENA reports published on this subject and the studies developed by the IIR on Solar Cooling.

Moreover, refrigeration is fundamental for the preservation of pharmaceutical products, as has recently emerged with regard to the preservation of vaccines for COVID-19, but also for the preservation of food, in particular in developing countries.

The production segment of the cold chain represents an excellence of the Italian production offer, which allows our country to hold the world leadership in the field of refrigeration technologies. The Italian competitive capacity is based on innovation and sustainability of the technologies developed.

The relevance of technology transfer, innovation and new technologies therefore have a direct impact on climate and production.

IIR and IRENA discuss how new cooling technologies, focusing on renewable energies, can minimise the environmental impact of cooling by increasing the efficiency of systems.

At the same time, knowledge transfer, research and innovation are a determining factor in the development of industrial activities and Italian leadership in the refrigeration sector.

Link to the registration form

[https://meetoecd1.zoom.us/webinar/register/WN\\_7xyjY6tZSJG2JexnrBMrtA](https://meetoecd1.zoom.us/webinar/register/WN_7xyjY6tZSJG2JexnrBMrtA)

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### ***11.30 - 11.40 Welcome***

Amb. Antonio Bernardini, Permanent Representative of Italy to the International Organizations, Paris

### ***11.40 -12.00 Energy efficiency and cooling/heating technologies in the context of combating climate change***

Didier Coulomb, Director General, The International Institute of Refrigeration IIR  
*Refrigeration at the heart of a sustainable development (10 min)*

Rabia Ferroukhi, Director of the Knowledge, Policy and Finance Centre (KPFC) IRENA  
*The impact of heating and cooling in the global energy mix (10 min)*

### ***12.00 -12.35 The wide spectrum of Refrigeration between food security and new technologies***

Antonio Achille, CIHEAM Bari  
*Valorization of Energy production in the Food and Medical-Pharmaceutical contexts (10 min)*

Fabio Polonara, Full Professor of Engineering, *Politecnica* University of Marche  
*The role of refrigeration in the time of ecological transition (10 min)*

Renato Lazzarin, Full Professor of Engineering University of Padua  
*The use of renewables in refrigeration: new technological frontiers (15 min)*

### ***12.35-12.50 The Italian industrial leadership in refrigeration technologies***

Francesco Mastrapasqua President of ASSOCOLD, Italian Association of Refrigeration Technologies  
*Italian excellence in the refrigeration sector (10 min)*

Biagio Lamanna Carel, Knowledge Center Manager  
*The role of research and innovation in the refrigeration industry (10 min)*

### ***Debate***

***Moderator: Daniela Dirceo, Journalist, Editor, 24oreGroup***