



7th Annual Global Conference on Energy Efficiency

Efficient Cooling for Global Development: Addressing Energy and Food Security, Building Climate Resilient Communities

KEY TAKEAWAYS

- As global temperatures rise, delivering effective cooling systems to protect people is increasingly urgent and it is no longer just an environmental issue. **Today, lack of access to cooling directly impacts food security and safety, health and productivity of vulnerable populations, and energy security.**
- **3 key figures:** 3 billion more air conditioners will be installed by 2050, 1 billion people today do not have access to the cooling they need, 100 gigatonnes of CO2 equivalent emissions will be avoided if we solve the cooling challenge sustainably.
- The number of health problems caused by extreme heat is increasing every year: **people are not able to function normally under extremely high temperatures and without access to solutions to achieve thermal comfort.** Recent extreme heat episodes in India, China and Europe illustrate the challenge ahead.



H.E. Jeppe Kofod, Minister of Foreign Affairs of Denmark



Fatih Birol, Executive Director, IEA



Christine Egan, CEO, CLASP



- The **lack of effective refrigeration** directly results in the **loss of 526 million tons of food production, or 12 % of the global total.** This is **enough to feed an estimated 1 billion people in a world where currently 811 million people are hungry** and 3 billion are unable to afford a healthy diet.
- During the **Covid 19 crisis, storage of vaccines, which had to be kept at low temperatures to be effective, shed light to the challenge of cold chain.** The overall effectiveness of immunization was considerably slowed down due to lack and unequal distribution of access to cold chain. This makes access to cooling an issue of **social, health and climate justice.**
- But cooling devices consume a lot of energy, which puts a strain on power grids and increases emissions in countries that still rely on fossil fuels. This **vicious circle must be broken.**

Wednesday, 8 June 2022
11:30 am - 12:30 pm CEST
Alsik Hotel, Sønderborg, Denmark



KEY TAKEAWAYS



Kan Pharidh, Ambassador to Denmark & UK, Cambodia

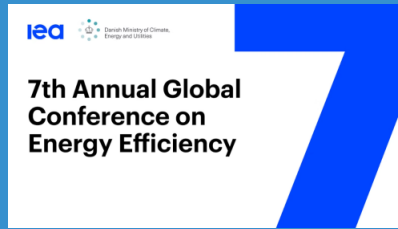


Omnia El Omrani, Youth Representative, Egypt



Jürgen Fischer, President, Danfoss Climate Solutions

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- Efficient, climate-friendly cooling can be an effective **multi-purpose tool** to provide concrete responses to the food, energy, climate and health crises. We need to adopt a **holistic approach**, and bring down our energy consumption and emissions from cooling.
- We have all the tools to drive down cooling emissions, but action needs to be accelerated. We have to replace **high GWP refrigerants**, ensure **super-efficient appliances** are accessible and affordable to those that need them, **optimize use of equipment at system level**, **educate communities and train technicians** to install sustainable cooling equipment.
- Governments must put pressure on manufacturers to speed up the process. **Cooling is the blind spot in energy policymaking**. We need to make sure that each country has the right norms and standards and that these standards are implemented.
- **Private companies voluntarily taking the lead are important** in emerging economies, especially in absence of set regulations binding countries to use the most efficient equipment. But those that are lagging must be encouraged to accelerate action.
- The climate benefit of sustainable cooling is considerable. If countries committed to investing in and reducing emissions from **lighting, air conditioning, refrigeration and electric motors** using only the most efficient equipment available, we would save the equivalent of US emissions each year.
- We still **lack talent and gender in the cooling industry, which hinders progress in**. We need to attract talent and make new generations aware that the sustainable cooling sector is one of the major solutions to global warming in the coming years.
- People do not realize how close 2030 is: it is only 295 weeks away. Both companies and countries need to stop talking about long-term goals. We have a small window of opportunity to solve the cooling challenge: **the time is now to maximize ambition and take action**.

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