

ASIA CLEAN ENERGY FORUM 2019

PARTNERING FOR IMPACT

17-21 June 2019 | Manila



Deep Dive Workshop

Friday, 21 June 2019, 09:00 a.m. – 5:30 p.m.

Auditorium C

The Future of Cooling: Promoting Sustainable Cooling through Technology and Policy Innovation



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Background

Cooling is essential to the way we live our lives, and it is not just about keeping ourselves comfortable. While heatwaves kill 12,000 people per year today, a number that is set to rise to 255,000 by 2050, wasted vaccines due to broken cold chains cause millions of preventable deaths every year. Cold chains also play a vital part in the phenomenal volume of food waste, depriving millions of an adequate nutritional diet. Space cooling in buildings alone could be responsible for over 2000 MtCO₂ by 2050, which does not include the rest of the cold chain, or the indirect emissions from food wastage and leaked F-gases. And more than a billion people still lack access to cooling for their basic needs.

For many cooling technologies the carbon mitigation potential from energy efficiency is even greater than the phase down of these harmful refrigerants. Hence, the focus of the Kigali Amendment to the Montreal Protocol beyond F-gas phase down, to encourage the greater uptake of energy efficiency.

As well as finding alternative, cleaner, refrigerants and technologies, a host of crosscutting activities will be essential to ensure that cooling is clean, affordable and accessible to all.

Objective

DDW Objective:

The aim is to bring together representatives from governments, the private sector, financial institutions and international organisations to discuss the challenges and opportunities of sustainable cooling in the context of the Sustainable Development Goals and the Kigali Amendment.

Benefits to ADB:

As requested by the ADB, the IEA and co-organisers will contribute to the Asia Clean Energy Forum through developing a Deep Dive Workshop on Sustainable Cooling.

Benefits to ACEF Participants:

During the event, participants will have the opportunity to learn from experts, exchange ideas and strengthen collaboration with organizations and partners interested in taking action.

Agenda

(indicate duration; exact times to follow)	Session 1: Cooling for a Healthy and Resilient Future Moderator: Toru Kubo, Asian Development Bank
09:00 – 09:05	Introduction to the Session – Toru Kubo
09:05 – 09:15	Audience poll/questions
09:15 – 09:30	Topic: Access to Affordable, Sustainable Cooling Presenter: Clotilde Rossi di Schio, Sustainable Energy for All
09:30 – 09:45	Topic: Setting the Scene – The Future of Cooling Presenter: Kevin Lane, International Energy Agency
09:45 – 10:00	Topic: Efficient, Clean Cooling – Huge Opportunities and Challenges Ahead Presenter: Hu Min, Kigali Cooling Efficiency Program
10:00 – 10:30	Q&A Session
10:30 – 11:00	Coffee break & Networking
	Session 2: Policy and Regulatory Aspects of the Cooling Challenge Moderator: Denise Andres, GIZ
11:00 – 11:05	Introduction to the Session – Denise Andres
11:05 – 11:20	Topic: Unlocking the potential of District Cooling Presenter: Peter Lundberg, Asia Pacific Urban Energy Association (APUEA)
11:20 – 11:35	Topic: Key developments and challenges in energy performance standards and labelling programmes – including a look into price and efficiency Presenter: Kevin Lane, IEA
11:35 – 11:50	Topic: National RAC Strategy Presenter: Isagani Soriano, Department of Energy, Philippines, Department of Energy, Philippines
11:50 – 12:30	Q&A Session
12:30 – 14:00	Lunch

Session 3: Market Transformation

Moderator: Kevin Lane, IEA

- 14:00 – 14:05 **Introduction to the Session** – Kevin Lane
- 14:05 – 14:15 Audience poll/questions
- 14:10 – 14:25 **Topic: Market Research on Demand for Cooling among MSME/SME Clients**
Presenter: Nicola Armacost, Arc Finance
- 14:25 – 14:40 **Topic: Market Trends and Drivers in the Cooling Industry**
Presenter: Lee Wai Kok, Daikin
- 14:40 – 15:00 **Q&A Session**
Session 4: Scaling-up Efficient Clean Cooling: What is Needed and How to Finance it?
Moderator: Peter Warren, UK Government
- 15:00 – 15:15 **Topic: Financing and Innovation for Cooling**
Presenter: Peter Warren, Department for Business, Energy & Industrial Strategy, UK Government
- 15:15 – 15:30 **Topic: Lessons Learned from Financing Sustainable Cooling**
Presenter: Denise Andres, GIZ
- 15:30 – 16:00 Coffee break & Networking
- 16:00 – 16:15 **Topic: ESCO Model - Innovative Financing of Cooling Systems**
Presenter: Alexander Ablaza, Asia-Pacific ESCO Industry Alliance
- 16:15 – 16:30 **Topic: Sustainable Cooling Initiative**
Presenter: Johannes Heister, World Bank
- 16:30 – 17:00 Q&A Session
- 17:00 – 17:30 **Summary, Priority Actions and Q&A**
This session aims to summarise the key points of the workshop and provide participants with a list of priority actions and next steps.
- 17:30 **Meeting Close**

About the Organizers

International Energy Agency - The IEA works to ensure reliable, affordable and clean energy for its 30 member countries and beyond. Our mission is guided by four main areas of focus: energy security, economic development, environmental awareness and engagement worldwide.

Department for Business, Energy & Industrial Strategy, UK Government - BEIS is the UK Government department responsible for business, industrial strategy, science, research and innovation, energy and clean growth, and climate change. This includes managing the UK's international climate finance for supporting climate change mitigation in developing countries and leading the UK's representation in climate change negotiations.

GIZ - for more than 20 years, GIZ has assisted various countries in transitioning to energy-efficient and climate friendly refrigeration and air conditioning technologies through policy advice, technology transfer and capacity building.

Sustainable Energy for All - As a global platform, Sustainable Energy for All helps leaders go further, faster – together. How do we do that? We marshal the evidence. We benchmark progress. We amplify the voices of the energy poor. We tell stories of success. And we connect stakeholders to each other – and to solutions. To secure affordable, reliable, clean energy for all by 2030, progress must be accelerated, and interim goals met between now and 2020.

Kigali Cooling Efficiency Program - K-CEP engages with countries willing to ambitiously and quickly integrate energy efficiency into solutions to meet the cooling challenge. Partnerships with these countries will help accelerate national and corporate energy efficiency cooling policies, standards, and programs with the potential to reduce emissions and contribute to sustainable development.