

ASIA CLEAN ENERGY FORUM 2019

PARTNERING FOR IMPACT

MANILA | 17–21 JUNE 2019



Deep Dive Workshop

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

Point of Contact:

Melanie SLADE, IEA, Melanie.SLADE@iea.org

Philipp Munzinger, GIZ, philipp.munzinger@giz.de

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
09:00 – 09:05	Moderator: Toru Kubu, Asian Development Bank
09:05 – 09:15	Introduction to the Session – Toru Kubu
09:15 – 09:35	Audience poll/questions
09:35 – 09:55	Topic: Access to Affordable, Sustainable Cooling Presenter: TBC, Sustainable Energy for All
09:55 – 10:15	Topic: Setting the Scene – The Future of Cooling Presenter(s) – people or organizations: Kevin Lane, International Energy Agency
10:15 – 10:30	Topic: Efficient, Clean Cooling – Huge Opportunities and Challenges Ahead
10:30 – 11:00	Presenter: Dan Hamza-Goodacre, Executive Director of the Kigali Cooling Efficiency Program
11:00 – 11:05	Panel Discussion (including questions from participants)
11:05 – 11:20	Coffee break & Networking
11:20 – 11:35	Session 2: Policy and Regulatory Aspects of the Cooling Challenge
11:35 – 11:50	Moderator: Denise Andres, GIZ
11:50 – 12:05	Introduction to the Session – Denise Andres
12:05 – 13:00	Topic: Cooling Cities and Buildings Presenter: Global Alliance on Buildings and Construction
13:00 – 14:00	Topic: Key developments and challenges in energy performance standards and labelling programmes – including a look into price and efficiency Presenter: TBC, LBNL
14:00 – 14:10	Topic: National RAC Strategy Presenter: TBC, Department of Energy Philippines
14:10 – 14:25	Topic: Non-Buildings Aspect of Cooling – The Cold Chain Presenter: Professor Toby Peters, Heriot-Watt University
14:25 – 14:40	Q&A Session (15 minutes). Group Activity
14:40 – 15:00	Lunch
	Session 3: Market Transformation
	Moderator: Kevin Lane, IEA
	Introduction to the Session – Kevin Lane
	Quiz
	Topic: Initiating industrial transformation Presenter: TBC, Multilateral Fund
	Topic: Market Trends and Drivers in the Cooling Industry Presenter: TBC, Shecco
	Topic: Opportunities and Challenges in Sustainable Innovation Presenter: TBC

15:00 – 15:30	Q&A Session. Guided Discussion from Moderator
15:30 – 16:00	Coffee break & Networking Session 4: Scaling-up Efficient Clean Cooling: What is Needed and How to Finance it? Moderator: Peter Warren, Department for Business, Energy & Industrial Strategy, UK Government
16:00 – 16:15	Topic: Financing and Innovation for Cooling Presenter: Peter Warren, Department for Business, Energy & Industrial Strategy, UK Government
16:15 – 16:30	Topic: Lessons learned from financing sustainable cooling Presenter: Denise Andres, GIZ
16:30 – 16:45	Topic: Cooling as a Service Presenter: Daniel Magallo, BASE
16:45 – 17:00	Topic: Sustainable Cooling Initiative Presenter: Johannes Heister, World Bank
17:00 – 17:10	Q&A Session.
17:10 – 17:30	Summary, Priority Actions and Q&A This session aims to summarize the key points of the workshop and provide participants with a list of priority actions and next steps.
17:30	Meeting Close – International Energy Agency

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.