Joint Workshop hosted by the International Energy Agency and the International Partnership for Energy Efficiency Cooperation

Global Energy Efficiency Benchmarking, and Low Energy Buildings and the Role for Smart Management Systems

18 September, 2019

9 Rue de la Fédération, 75015, Paris, France

Introduction

This joint workshop, hosted by the International Energy Agency (IEA) and the International Partnership for Energy Efficiency Cooperation (IPEEC) has been organised as two sessions:

The first session will feature an update on the G20 Global Energy Efficiency Benchmarking initiative. As part of its 2019 G20 Presidency, the Government of Japan sought to highlight the benefits of benchmarking to drive improvements in energy efficiency, and the IEA provided support to illustrate how benchmarks could be developed for energy-intensive industries, as well as within the transport and building end-use sectors. This work was highlighted in the G20 Karuizawa action plan, and the IEA continues to support Japan in promoting the value of benchmarking activities and analyses to encourage greater international collaboration on data gathering. This session will gather input from IEA member countries, as well as G20 countries, to inform this initiative going forward. Links will also be made to other G20 initiatives such as Energy End-Use Data and Energy Efficiency Metrics (EEUDEEM) under the G20 Energy Efficiency Leading Programme (EELP) coordinated by IPEEC.

The second session aims to explore the steps needed to optimise the energy consumption of buildings while providing safe and healthy environments for people working, studying or in their home. The buildings sector has been a priority for IEA and G20 economies. Sustained efforts to improve energy efficiency in this sector are being conducted by several international initiatives, including the Global Alliance for Buildings and Construction (Global ABC) that was launched by the Government of France at COP21 in Paris, as well as the Buildings Energy Efficiency Task Group (BEET) under the EELP. The workshop session will draw in particular on elements of the Global ABC Roadmaps, which aim to support increased action towards a low energy, resilient and low emission buildings and construction sector. The role of building design and building operation will be discussed, as well as the increasing role of smart controls in their ability to both reduce buildings' energy consumption and prepare them interact with the energy supply system now and in the future.

AGENDA

9:00-9:30 Arrival and registrations	
09:30 - 09:40	**Welcome and opening remarks** Brian Motherway, Head of Energy Efficiency Division, IEA
Session 1: Global Energy Efficiency Benchmarking	
09:40 - 09:55	**Introduction** Energy efficiency and benchmarking analysis for G20 countries and beyond, Brian Motherway, Head of Energy Efficiency Division, IEA
09:55 - 10:45	**Global Experience** Overview of the IEA's global energy data collection efforts, Roberta Quadrelli, Head of Section, Energy Data Centre, IEA Challenges and opportunities for improving data collection efforts for key industry sectors, Peter Levi, Energy Analyst (Industry), IEA Industrial energy efficiency benchmarking in Japan, Masaomi Koyama, Director for International Affairs Office, and Hiroya Gorai, Deputy Director of Energy Efficiency Division, Japan Ministry of Economy, Trade and Industry (METI)
10:45 – 11:00 Break	
11:00 - 11:50	**Exploring the value of benchmarking, its challenges and future opportunities** Facilitated discussion to explore the value to policy makers in having more reliable, comparable benchmarks, the challenges to gathering and analysing the data, and how to proceed.
11:50 - 12:00	**Wrap-up and next steps** Hiroya Gorai, Deputy Director of Energy Efficiency Division, Japan Ministry of Economy, Trade and Industry (METI) Kathleen Gaffney, Senior Programme Manager, Energy Efficiency Division, IEA
12:00 – 13:30 Lunch	
Session 2: Low Energy Buildings and the Role of Smart Management Systems	
13:30 - 13:45	**Opening remarks** *Tracing the path to low-emission, efficient buildings and construction* Benoît Lebot, Executive Director, IPEEC Yves-Laurent Sapoval, Senior Advisor for the Directorate for Housing, Urban Development, and Landscapes for France

13:45 - 15:00	**Panel 1 – Building Design** *Exploring how building design can reduce the amount of energy a building requires to operate and maintain comfortable and healthy indoor environments* Moderator: Oliver Rapf, Executive Director, BPIE Speakers: • Victoria Burrows, Director of Advancing Net Zero, World Green Building Council • Mirjam Howell Macchi, Programme Officer, SDC Global Programme Climate Change and Environment • Camille Sifferlen, Project Manager, Passive House Institute • Phil Armitage, Senior Partner, Max Fordham • Bertrand Lasternas, Associate Director – Energy Manager, School of Design and Environment National University of Singapore (live presentation from Singapore)
15:00 – 15:30	**Break**
15:30 - 16:30	**Panel 2 – Buildings in Operation** *Exploring how policy tools can encourage the efficient operation of buildings and their systems* Moderator: Victoria Burrows, Director of Advancing Net Zero, World Green Building Council Speakers: • Oliver Rapf, Executive Director, BPIE • Cedric Borel, Executive Director & Amanda Garcia, Project Manager City and Sustainable Buildings, French Institute for Buildings Efficiency • Nicole Thomas, Counsellor - Energy and Environment, Australian Government • João Queiroz Krause, Programa Nacional de Conservação de Energia Elétrica – Procel, Eletrobras
16:30 - 17:30	**Panel 3 – Smart Management Systems** *Exploring how smart controls and connected devices can reduce energy use while offering enhanced flexibility and occupant comfort* Moderator: Melanie Slade, IEA Speakers: • Alexander Fitzsimmons, Deputy Assistant Secretary for Energy Efficiency (Acting), Chief of Staff, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy • Paul Waide, European Commission (consultant), Smart Readiness Indicator for Buildings • Ömer Ünal, Manager – Energy, Arcelik • Clémentine Hardy, Director, DEEPKI
17:30 - 17:45	**Wrap-up and next steps** Benoît Lebot, Executive Director, IPEEC Yves-Laurent Sapoval, Senior Advisor for the Directorate for Housing, Urban Development, and Landscapes for France
17:45	**Workshop close**