

ASIA CLEAN ENERGY FORUM 2019

PARTNERING FOR IMPACT

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Deep Dive Workshop

Low-Carbon Buildings for Thriving Livable Cities



WORLD
RESOURCES
INSTITUTE



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Background

Cities are already responsible for 70% of global energy-related greenhouse gas emissions and 65% of global energy demand; they could easily account for more than three-quarters of electricity use by 2030. Cities in emerging economies, where 95% of population growth to 2030 and beyond will occur, will account for the majority (70%) of global growth in energy use through 2030. For instance, according to 2018 Global Status Report, the energy needed for cooling buildings will triple by 2050 – a growth equivalent to the current electricity demand in the US and Germany combined.

Yet, cities can also become climate-solvers. Since 75% of the urban infrastructure that will exist by mid-century hasn't been built yet, there is huge opportunity to shape more energy and resource-efficient cities to avoid the worst effects of climate change at the same time to make our cities more livable. Increasingly, it became evident that potentials of low-carbon buildings are critical in decarbonizing cities. Passive building design, energy efficient and clean energy-based cooling, distributed energy systems, green and sustainable building materials, building insulation enhancement, water saving through smart facet and rainwater re-use in buildings, and other measures that enable zero-emission buildings demonstrated significant benefits, thus, drawn tremendous attention.

Objective

This DDW aims to unlock the above-mentioned potentials and mainstream low-carbon buildings while making our cities more livable. It will focus on the challenges and innovative solutions to achieve livable, inclusive, and sustainable cities through promoting low-carbon buildings. Key messages and success stories

will be shared. The DDW also aims to stimulate partnership development and DMCs commitments to promoting low-carbon buildings, which can contribute to global climate events including UN Secretary General's Climate Summit.

DMC participants will be exposed to not only technical knowledge, but also to actual project experiences that other DMCs are already implementing. For other ACEF participants, the DDW will offer great network and partnership building on the subject topics and areas.

Indicative Agenda

9.00 a.m. – 9.15 a.m.	Opening Remarks Amy Leung, Director General, East Asia Regional Department, ADB Kaveh Zahedi, Deputy Executive Secretary for Sustainable Development, UNESCAP
9.15 a.m. – 9:30 a.m.	Topic: UNEP program on Cities Clean & Efficient Cooling By Mark Radka, Chief Energy and Climate Branch, UNEP DTIE
9.30a.m. – 9.45 a.m.	Topic: Decentralized Solutions for Cities and Territories By Michael Schack, Director, Engie
9:45 a.m. – 10:00 a.m.	Topic: Optimize, Electrify, Decarbonize Buildings: The 3 Steps to Thriving, Zero-Carbon Cities By Emma Stewart, World Resource Institute
10:00 a.m. – 10:15 a.m.	Topic: UK government-IFC program on Market Accelerator for Green Construction (MAGC) using EDGE By Peter Warran & Gabrielle Drinkwater, BEIS, UK Government
10:15 a.m. – 10:30 a.m.	Topic: Exploring Financing Products for Green Buildings in the PRC By Chun Xia-Bauer, Wuppertal Institute & Yong Wu, China Association of Building Energy Efficiency
Coffee Break 11:00 a.m. – 12:15 a.m.	Panel Discussion Moderator: Na Won Kim, ADB Mayor Bina J Acharya, City of Rajkot, Gujarat, India Mayor Meng Fanli, Qingdao, the PRC Yong Wu, Director, China Association of Building Energy Efficiency Michael Schack, Director, Engie Emma Stewarts, WRI
12:15 a.m. – 12:30 a.m.	Closing Remarks

Indicative List of Speakers

Kaveh Zahedi, Deputy Executive Secretary for Sustainable Development, UNESCAP

Bina J Acharya, Mayor, City of Rajkot, Gujarat, India

Michael Schack, Director, Decentralized Solutions for Cities and Territories, Engie

Meng Fanli, Mayor of Qingdao City, the People's Republic of China

Peter Warren, Senior Policy Advisor and Senior Climate Finance Investment Lead

International Climate Finance, Department of Business, Energy, and Industrial Strategy, UK Government

Gabrielle Drinkwater, Climate Leadership in Cities (CLIC) programme, Department of Business, Energy, and Industrial Strategy, UK Government

Chun Xia-Bauer, Project Coordinator, Division of Energy, Transport and Climate Policy, Wuppertal Institute

Emma Stewart, Director of Urban Efficiency & Climate & Director of Urban Finance, World Resources Institute

Yong Wu, Director, China Association of Building Energy Efficiency

About the Organizers

About UN Environment:

The United Nations Environment Programme (UN Environment) is the leading global environmental authority that sets the global environmental agenda, promotes the coherent implementation of the environmental dimension of sustainable development within the United Nations system, and serves as an authoritative advocate for the global environment. Our mission is to provide leadership and encourage partnership in caring for the environment by inspiring, informing, and enabling nations and peoples to improve their quality of life without compromising that of future generations.

About World Resource Institute:

WRI is a global research organization that spans more than 50 countries, with offices in the United States, China, India, Brazil, Indonesia and more. Our more than 700 experts and staff work closely with leaders to turn big ideas into action to sustain our natural resources—the foundation of economic opportunity and human well-being. Our work focuses on six critical issues at the intersection of environment and development: climate, energy, food, forests, water, and cities and transport.

About Wuppertal Institute:

The Wuppertal Institute undertakes research and develops models, strategies and instruments for transitions to a sustainable development at local, national and international level. Sustainability research at the Wuppertal Institute focuses on the resources, climate and energy related challenges and their relation to economy and society. Special emphasis is put on analyzing and stimulating innovations that decouple economic growth and wealth from natural resource use."