

## **International Conference on Innovation, Technology Transfer and Cooperation for Addressing Climate Change**

06 December 2022

United Nations Conference Centre (UNCC), Bangkok, Thailand and Online

*Organized by*

Asian and Pacific Centre for Transfer of Technology (APCTT) of the  
United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

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### **Background**

Technology plays a critical role in addressing the challenges of climate change through reducing greenhouse gas emissions and building resilience to the impacts. More than 50 percent of the population of Asia-Pacific live in cities and the region's urban population exceeded 2.3 billion in 2019, accounting for 54 percent of the overall global urban population.<sup>1</sup> In the Asia Pacific region, the projected urbanization rate is 64%. The region already contains 20 of the world's 33 megacities which will likely increase to 27 by the year 2030<sup>2</sup>. Cities in the Asia-Pacific therefore need to be the primary focus of the transition to climate technologies and resilience.

Cities and urban centers in the Asia-Pacific are now at the forefront of adopting smart city plans and implementing new technologies to manage city services. Digital and fourth industrial revolution (4IR) technologies are transforming the way cities are growing and being managed. However, there are challenges and limitations in large-scale use of such technologies in many cities of the region. Inclusive planning integrating emerging technologies at local, municipal and national level have become imperative for climate change mitigation and adaptation in cities. In this light, it is essential to create enabling policies and viable business models to promote innovations and transfer of technologies for building sustainable cities.

Developing capacities of city governments and sharing of good practices in transition to renewable energy for power and transportation, information and communication technology, and developing climate resilience through climate action plans is important. Multi-stakeholder partnerships between governments, civil society, and private sector organizations, and strengthened regional cooperation are critical to support sustainable urban development in the Asia-Pacific. This International Conference is envisaged to facilitate sharing of technical and institutional experiences on the complex policy and technology issues around urban climate resilience and sustainability and explore possible strategies and pathways to promote technology cooperation in the Asia-Pacific region.

### **Objectives**

- Explore and learn from good practices in scaling up innovative technologies on renewable energy, low carbon transport and disaster risk reduction including 4IR technologies for building sustainable cities.

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<sup>1</sup> <https://www.unescap.org/our-work/environment-development/urban-development>

<sup>2</sup> <https://www.adb.org/sites/default/files/publication/705086/100-climate-actions-cities-asia-pacific.pdf>

- Enhance knowledge on enabling policies and mechanisms to accelerate innovations for climate change mitigation and adaptation in cities.
- Provide policy recommendations to strengthen regional cooperation for adoption of technologies for climate change mitigation and adaptation in cities.

### Target Audience

Participants will include Government officials, city administrators, representatives of international organizations, R&D institutions and private sector, and other relevant stakeholders involved in urban governance, innovations and technologies related to climate change mitigation and adaptation.

## TENTATIVE PROGRAMME

**Date: 06 December 2022 | Time: 09:00 am–04:30 pm (Thailand Time GMT+7) Hybrid Mode**

**9:00-9:30 Registration**

Time	Agenda Item	Speaker
<b>9:30-10:00</b>	<b>Inaugural Session</b>	
	<b>Welcome address</b>	<b>Ms. Preeti Soni</b> Head, Asian and Pacific Centre for Transfer of Technology, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)
	<b>Opening Address</b>	<b>Assoc. Prof. Dr. Pasit Lorterapong</b> Deputy Permanent Secretary Ministry of Higher Education, Science, Research and Innovation (MHESI), Thailand
	<b>Special Address</b>	<b>H.E. Mr. Nagesh Singh</b> Ambassador Extraordinary and Plenipotentiary and Permanent Representative to ESCAP Embassy of India (TBC)
	<b>Special Address</b>	<b>Mr. Kaveh Zahedi</b> Deputy Executive Secretary of the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)
	<b>Group Photo</b>	
<b>10:00-10:15</b>	<b>Keynote address (online)</b>	<b>Mr. Daniele Violetti</b> Senior Director, Programmes Coordination, The United Nations Framework Convention on Climate Change (UNFCCC)

<b>10:15-12:15</b>	<b>Technical Session 1: Innovative applications of climate technologies in cities</b> This session will share case studies and examples of climate technology and their innovative applications in cities of Asia-Pacific. Key learnings from these examples and opportunities for their adoptions will also be discussed. Moderator: <b>Mr Jonathan Wong</b> , Chief, Technology and Innovation Section, Trade, Investment and Innovation Division, UNESCAP (TBC)	
<b>10:15-10:30</b>	Innovations and technology applications for clean and renewable energy transition in cities	<b>Professor Shobhakar Dhakal</b> Professor and Vice President for Academic Affairs, Department of Energy, Environment and Climate Change, Asian Institute of Technology (AIT), Thailand
<b>10:30-10:45</b>	Policy, regulations, and market front to support Rooftop solar deployment and adoption of energy-efficient appliances	<b>Mr. Neeraj Kuldeep</b> Senior Programme Lead Council on Energy, Environment and Water, India
<b>10:45-11:00</b>	Innovations and technology applications for low carbon urban transport and mobility	<b>Dr. Vũ Anh Tuấn (Associate Professor, Eng.)</b> Director, Vietnamese-German Transport Research Centre (VGTRC) Senior Lecturer (Mobility & Transport), Faculty of Engineering Vietnamese-German University (VGU), Viet Nam
<b>11:00-11:15</b>	<i>Open Discussion</i>	
<b>11:15-11:30</b>	<i>Coffee Break</i>	
<b>11:30-11:45</b>	Innovations and technology applications for disaster risk reduction and climate resilient infrastructure in cities	<b>Ms. Mary Jane Alvarez</b> Regional Program Manager, ICLEI Southeast Asia, Philippines
<b>11:45-12:00</b>	4IR technologies and applications for climate-resilient smart cities	<b>Ms. Atsuko Okuda</b> Regional Director for Asia and the Pacific (Thailand) International Telecommunication Union (ITU)
<b>12:00-12:15</b>	<i>Open Discussion</i>	
<b>12:15-13:15</b>	<i>Lunch Break</i>	
<b>13:15-15:10</b>	<b>Technical Session 2: Mechanisms to accelerate technology transfer, adoption and diffusion for climate resilient urban development</b> This session will discuss enabling policies, mechanisms and partnerships, with examples of their application, to facilitate innovation and transfer of climate technologies for climate smart and resilient cities in the Asia-Pacific region. Moderator: <b>Mr. Sangmin Nam</b> , Director, Environment and Development Division, UNESCAP	
<b>13:15-13:30</b>	Enabling policies for scaling-up adoption of climate technologies for resilient cities	<b>Dr. Hitesh Vaidya</b>

		Director, National Institute of Urban Affairs (NIUA), India
<b>13:30-13:45</b>	Financing and business models for enhancing access to climate technologies for cities	<b>Ms. Waraporn Hirunwatsiri</b> Senior Environmental Specialist, East Asia and Pacific, World Bank (Thailand) (TBC)
<b>13:45-14:00</b>	Intellectual property strategies for facilitating diffusion of climate technologies in cities	<b>Mr. Nirmalya Syam</b> Senior Program Officer, Health, Intellectual Property and Biodiversity Program, South Centre, Geneva, Switzerland
<b>14:00-14:15</b>	<i>Open Discussion</i>	
<b>14:15-14:30</b>	Technology cooperation for cross-border transfer of innovative climate technologies	<b>Ms. Clara Landeiro</b> Regional Manager, Asia-Pacific Climate Technology Centre & Network (CTCN)
<b>14:30-14:45</b>	Collaboration and networks to facilitate innovation and diffusion of climate technologies for cities	<b>Dr. Pakamas Thinphanga</b> Urban Climate Resilience Expert Project Director of EU-funded Urban Climate Governance, Thailand Environment Institute (TEI)
<b>14:45-15:00</b>	Innovative approaches for accelerating and up-scaling climate technology transfer, adoption and diffusion	<b>Dr. Ramanuj Banerjee,</b> Scientist F, DSIR, Ministry of Science & Technology, Government of India
<b>15:00-15:10</b>	<i>Open Discussion</i>	
<b>15:10-15:30</b>	<i>Coffee Break</i>	
<b>15:30-16:25</b>	<p><b>Technical Session 3: Panel Discussion - Strengthening regional cooperation for adoption of innovative technologies for climate resilient cities</b></p> <p>In this session, an eminent Panel comprising representatives from Member States will share experiences and examples of innovations and technology transfer of climate technologies for sustainable urbanization and deliberate on strategies to enhance regional cooperation in this regard.</p> <p><b>Moderator: Dr. Preeti Soni</b>, Head, APCTT-UNESCAP</p>	
	<p><b>Representative (s) of member States</b> (TBC) (5-7 minutes each)</p> <p><b>Bangladesh:</b> Dr. Md. Selim Reza, Deputy Secretary, Ministry of Science and Technology, Bangladesh</p> <p><b>China:</b> Mr. Xian Zhang, Division Director, The Administrative Center for China's Agenda 21, Ministry of Science and Technology, People's Republic of China</p> <p><b>India:</b> Mr. Surinder Pal Singh, Joint Secretary, DSIR, Ministry of Science and Technology, India</p> <p><b>Islamic Republic of Iran:</b> Dr. Seyed Moslem Mousavi Dorcheh, Department of Technology Studies, IROST, Iran</p> <p><b>Nepal:</b> Mr. Khagendra Bahadur Basnet, Director, Department of Industry, Nepal</p>	

	<p><b>Philippines:</b> Atty Marion Ivy D Decena, Director, DOST-Technology Application and Promotion Institute, Philippines</p> <p><b>Republic of Korea:</b> Dr. Eun Joo Kim, Principal Researcher, Science and Technology Policy Institute (STEPI), Republic of Korea</p> <p><b>Sri Lanka:</b> Prof. Sudarman Upali Adikary, Chairman, National Engineering Research and Development Centre, Sri Lanka</p> <p><b>Thailand:</b> Mrs. Nongnuch Chunbandhit, Director, International Cooperation Strategy Group, Office of the Permanent Secretary, Ministry of Higher Education, Science, Research and Innovation, Thailand</p> <p><b>Uzbekistan:</b> Mr. Olimjon Tuychiev, Director-General, National Office for Innovation Implementation and Technology Transfer under the Ministry of Innovative Development, Republic of Uzbekistan</p> <p><b>Representatives from Indonesia, Malaysia, Pakistan and Vietnam (tbc)</b></p>
16:25-16:30	Closing session