

Asia Clean Blue Skies Program | Knowledge Sharing Event

## STRATEGIES FOR IMPLEMENTATION OF LOW EMISSION ZONES IN ASIA

Date and time:	<b>May 8 – 9, 2024</b> (Wednesday - Thursday); <b>9:30 – 16:00</b> (GMT +7)
In-person venue:	<b>Amari Bangkok Hotel, Bangkok, Thailand</b>
Online meeting room:	<a href="https://bit.ly/KSE_LEZinAsia">https://bit.ly/KSE_LEZinAsia</a>

### BACKGROUND

Rapid urbanization and population growth in the Asian region have led to a surge in vehicle fleets. In many cities, this has not been matched by investment in mitigation measures such as vehicle emission controls, cleaner fuels, and travel demand management systems. As a result, traffic-related emissions have led to elevated levels of air pollutants such as particulate matter, nitrogen oxides, and volatile organic compounds.

Traffic-related air pollution (TRAP) poses a significant threat to public health and the environment. These include health impacts such as increased rates of respiratory diseases, cardiovascular issues, and other health complications. Therefore, it is recognized that there is a need for swift and coordinated action in Asia. Implementing transport and urban air quality management measures like Low Emission Zones (LEZ) can help in improving air quality and fostering healthier, more equitable and more sustainable communities. Such initiatives will entail collaboration among governments, private sector, industries, and communities to address this critical issue.

The Asian Development Bank (ADB) aims to play a more active role and be a leader in air quality management (AQM) by scaling up investments and capacity building support to developing countries in Asia and the Pacific. Through the Asia Clean Blue Skies Program (ACBSP), several knowledge sharing events on AQM topics have been organized on behalf of ADB by Ricardo Energy and Environment, Clean Air Asia and Air Quality Consultants since 2022. In May 2022, a knowledge sharing event entitled *Opportunities for improving air quality through urban planning and transport solutions* was conducted which featured Berlin in Germany's experience in LEZ enforcement to address mobile emissions.

Furthermore, LEZs, as a tool in addressing emissions from the transport sector, garnered much interest throughout the Better Air Quality Conference in November 2023. Building on the outcomes of the previous events, this session moves on to focus on the most effective strategies and best practices for implementing LEZs in Asian cities.

### OBJECTIVE OF THE SESSION

The session aims to facilitate sharing of knowledge, experiences, and best practices on planning and implementation of LEZs in the diverse urban landscape of the Asian region. Esteemed experts will discuss practical strategies for designing, implementing, and monitoring LEZ in Asian cities. The workshop will consider practical and technical issues, engagement with key delivery partners and the wider community, and funding opportunities, challenges, experiences, and lessons learned by Asian

cities in implementing LEZs will be discussed through the event. In particular, the two-day hybrid learning event aims to achieve the following:

- To highlight the impacts of TRAP and the potential of LEZs in addressing it;
- To understand local context, strategies, and best practices of LEZ implementation in Asia;
- To identify challenges in LEZ implementation in Asia and opportunities for synergy with local transport actions and programs; and
- To apply lessons learned from the knowledge sharing event (KSE) towards planning for local LEZ implementation.

## TARGET PARTICIPANTS

This event will bring together all interested stakeholders to discuss challenges, best practices, and strategies associated with LEZs. The following participants are invited to the session:

- Government officials representing the national and local agencies on
  - Ministry of Natural Resources and Environment
  - Ministry of Energy
  - Ministry of Commerce
  - Ministry of Finance
  - Ministry of Transport
  - Ministry of Public Health
  - Department of Climate Change and Environment
  - Bangkok Metropolitan Administration
    - Department of Environment
    - Finance Department
    - Traffic and Transport Department
    - Department of Planning and Urban Development
    - Health Department
- Academic institutions
- Development and civil society organizations
- Transportation, environment, and climate experts
- International delegates endorsed by the ADB

## SESSION PROGRAM

DAY 1 AGENDA (GMT+7)		SPEAKER
9:30-9:40 (10 mins)	<b>Welcome Remarks</b>	<b>Mr. Pornphrom N.S. Vikitsreth</b> Adviser to Governor of Bangkok (Environmental Affairs), Bangkok Metropolitan Administration
9:40 – 9:50 (10 mins)	<b>Opening Remarks</b>	<b>Mr. Kanzo Nakai</b> Director, Transport Sector Office, ADB
9:50 – 9:55 (5 mins)	<b>Event Overview</b> <ul style="list-style-type: none"> <li>• Presentation of the workshop agenda</li> <li>• Introductory survey</li> </ul>	<b>Ms. Dana Babela</b> Senior Researcher Clean Air Asia

<b>DAY 1 AGENDA (GMT+7)</b>		<b>SPEAKER</b>
<b>9:55 – 10:15</b> (20 mins)	<b>Setting the scene</b> <ul style="list-style-type: none"> <li>Extent and impacts of Traffic-related air pollution (TRAP) in Asia</li> <li>Overview of solutions/strategies (ASI framework) to address TRAP (highlighting LEZs)</li> </ul>	<b>Dr. Raymund Abad</b> Sustainable Transport Lead Clean Air Asia
<b>10:15 – 10:40</b> (25 mins)	<b>Health impacts of traffic-related air pollution (TRAP)</b> <ul style="list-style-type: none"> <li>Discussion on the latest studies on the health effects of traffic-related air pollution and traffic policy measures</li> </ul>	<b>Dr. Hanna Boogaard</b> Consulting Principal Scientist, Health Effects Institute
<b>10:40 – 10:55</b> (15 mins)	<i>Coffee break</i>	
<b>10:55 – 11:40</b> (30 mins, 10 mins Q&A)	<b>Addressing transport emissions through Low Emission Zones</b> <ul style="list-style-type: none"> <li>Introduction on LEZs and related strategies</li> <li>Overview of existing policies and regulations</li> <li>Planning for LEZs, design/tailoring for regional context/needs</li> <li>Financial support measures (ex. retrofitting/vehicle replacement, scrappage)</li> <li>Co-benefits from implementation, synergies with other urban and transport actions/solutions</li> </ul>	<b>Ms. Yidan Chu</b> Researcher and co-coordinator of the Cities cluster, International Council on Clean Transportation (ICCT)
<b>11:40 – 11:50</b> (10 mins)	<b>Activity: Identifying local challenges</b>  What are the challenges or barriers that your city is encountering in planning for or implementing LEZs?	<b>Ms. Dana Babela</b> Senior Researcher Clean Air Asia
<b>11:50 – 12:00</b> (10 mins)	<b>Group Photo</b>	
<b>12:00 – 13:30</b> (1 hr 30 min)	<b>Lunch Break</b>	
<b>13:30 – 13:40</b> (10 mins)	<b>Video: London Experience on LEZ Implementation</b>	<b>Ms. Shirley Rodrigues</b> Deputy Mayor for Environment and Energy, London
<b>13:40 – 14:20</b> (30 mins, 10 mins Q&A)	<b>Monitoring and Evaluation</b> <ul style="list-style-type: none"> <li>Overview of tools/technology/processes for M&amp;E</li> <li>Enforcement mechanisms/tools</li> </ul>	<b>Ms. Joanne Green</b> Associate Director, Ricardo
<b>14:20 – 14:40</b> (15 mins, 5 mins Q&A)	<b>RAPAP: Asia Pacific Regional Action Programme on Air Pollution</b>	<b>Mr. Anshuman Varma</b> Economic Affairs Officer, Environment and Development Division, ESCAP
<b>14:40 – 14:55</b> (15 mins)	<i>Coffee break</i>	
<b>14:55 – 15:55</b>	<b>Activity Part 1: Visioning for LEZ</b>	Moderated by:

<b>DAY 1 AGENDA (GMT+7)</b>		<b>SPEAKER</b>
(60 mins)	<p>The goal of the activity is to give opportunity for participants to apply what they have learned in the KSE through designing of a proposal framework for LEZ implementation in their cities.</p> <p>Guide Question: Illustrate/describe how you envision an LEZ within your city. (30 mins for activity, 15 mins for breakout group sharing, 15 mins for sharing to the plenary)</p>	<p>Atty. Glynda Bathan-Baterina Ms. Dang Espita Casanova Ms. Dana Babela Clean Air Asia</p> <p>Ms. Joanne Green Ricardo</p>
<b>15:55-16:00</b> (5 min)	<b>Synthesis and wrap-up of Day 1</b> Summary of Day 1 and overview of Day 2	<b>Dang Espita Casanova</b> Program Manager Clean Air Asia

<b>DAY 2 AGENDA (GMT+7)</b>		<b>SPEAKER</b>
<b>9:30-9:40</b> (10 mins)	<b>Opening Remarks</b>	<b>Ms. Karma Yangzom</b> Air Quality Management Focal Point, ADB
<b>9:40 - 9:50</b> (10 mins)	<b>Day 2 Overview</b> • Recap of Day 1 and Presentation of the workshop agenda for Day 2	<b>Ms. Dana Babela</b> Senior Researcher Clean Air Asia
<b>9:50 - 10:20</b> (25 mins, 5 mins Q&A)	<b>Financing Low Emission Zones</b>	<b>Ms. Faela Sufa</b> Transport Specialist, ADB
<b>10:20 - 10:35</b> (15 mins)	<i>Coffee break</i>	
<b>10:35 - 10:55</b> (20 mins)	<b>Case Study: Pilot of the green truck corridor in the Beijing-Tianjin-Hebei region</b>	<b>Ms. Zhou Yufang</b> Energy Conservation and Pollution Reduction Center, Beijing Transport Research Institute
<b>10:55 - 11:15</b> (20 mins)	<b>Case Study: Low Emission Zone in Jakarta</b>	<b>Ms. Yayah Soleha</b> Head of Integration and Transport Development Section, Jakarta Transportation Agency
<b>11:15 - 11:35</b> (20 mins)	<b>Case Study: Bangkok</b>	<b>Dr. Ittipol Pawarmart</b> Head of Automotive Emission Laboratory, Air Quality and Noise Management Division, Pollution Control Department (PCD), Ministry of Natural Resources and Environment
<b>11:35 - 11:55</b> (20 mins)	<b>Q&amp;A for Case Study Presentations</b>	<b>Ms. Joanne Green</b> Associate Director Ricardo

DAY 2 AGENDA (GMT+7)		SPEAKER
11:55 – 12:00 (5 mins)	<b>Group Photo</b>	
12:00 – 13:30 (90 mins)	<b>Lunchbreak</b>	
13:30 – 13:35 (5 mins)	<b>City Presentations: Introduction of Speakers</b>	<b>Ms. Dana Babela</b> Senior Researcher Clean Air Asia
13:35 – 14:00 (25 mins)	<b>City Presentation: Hanoi, Vietnam</b>	<b>Ms. Thuy Le Thanh</b> Head of Project Management and Communication, Hanoi Environmental Protection Agency
14:00 – 14:25 (25 mins)	<b>City Presentation: Pasig, Philippines</b>	<b>Atty. Diego Luis Santiago</b> Deputy City Administrator City Government of Pasig
14:25 -14:40 (15 mins)	<b>Moderated Panel Discussion</b> The panel discussion aims to provide the audience an opportunity to ask questions and the panel can further elaborate on the topics presented.  (Questions from live audience) (other cities and experts will be able to provide comments/suggestions for improvement of the project ideas)	<b>Atty. Glynda Bathan-Baterina</b> Deputy Executive Director, Clean Air Asia
14:40 – 14:55 (15 mins)	<i>Coffee Break</i>	
14:55 – 15:40 (45 mins)	<b>Activity Part 2: Synergies for LEZ Implementation</b> Guide Question: 1. Identify priority location within your city (area, corridor, street, zone) and briefly discuss why it should be prioritized for LEZ implementation. 2. Identify any existing efforts of your city that can be linked with LEZ implementation.  (30 mins activity, 15 mins group sharing)	Moderated by:  Atty. Glynda Bathan-Baterina Ms. Dang Espita Casanova Ms. Dana Babela Clean Air Asia  Ms. Joanne Green Ricardo
15:45 -15:50 (5 mins)	<b>Audience Evaluation</b> Google Form (Evaluation)	<b>Ms. Dana Babela</b> Clean Air Asia
15:50 -16:00 (10 mins)	<b>Closing</b> Synthesis and next steps	<b>Ms. Yoko Watanabe</b> Director, Environment Group, Climate Change and Sustainable Development Department, ADB

Session Moderator: Ms. Dana Babela, Clean Air Asia