

## Day 2 Main Conference | 16 November 2023 | Thursday

### Ambition to Action: Clean air for Health and the Climate

#### AGENDA AT A GLANCE

<b>09:00 – 10:30</b> OPENING REMARKS AND OPENING PLENARY: SECTORS WORKING TOGETHER TO ACHIEVE CLEAN AIR FOR HEALTH AND THE CLIMATE				
<b>10:30 – 11:00</b> COFFEE BREAK & NETWORKING				
<b>11:00 – 12:30</b> PLENARY SESSION: CITIES' FORUM: CLEAN AIR AND CLIMATE SOLUTIONS FROM CITIES, FOR CITIES				
<b>12:30 – 14:00</b> LUNCH				
<b>14:00 – 15:30</b> BREAKOUT SESSIONS:				
<b>Track 1</b> URBAN DEVELOPMENT AND TRANSPORT	<b>Track 2</b> INDUSTRY AND ENERGY	<b>Track 3</b> AGRICULTURE, WASTE, HOUSEHOLD ENERGY AND OTHER SOURCES	<b>Track 4</b> SPOTLIGHT 1	<b>Track 5</b> REGIONAL COOPERATION FOR CLEAN AIR
Green Ports and Shipping Development in Asia: Status (Part 1) <i>(Clean Air Asia)</i>	Air Quality Monitoring Systems: Increasing data coverage and ensuring reliability <i>(Clean Air Asia, EANET, NILU, UNESCAP)</i>	The Climate Imperative: Integrating SLCPs in Public Policy <i>(Global Methane Hub, CCAQ)</i>	Financing Clean Air Action through Climate and Other Funds (Part 1) <i>(ADB, Clean Air Asia)</i>	Science-based Policy Making and Action for Clean Air: Asia experience sharing and exchange (part 1) <i>(Peking University, Clean Air Asia)</i>
<b>15:30 – 16:00</b> COFFEE BREAK & NETWORKING				
<b>16:00 – 17:30</b> BREAK OUT SESSIONS:				
Green Ports and Shipping Development in Asia: Opportunities and Solutions (Part 2) <i>(Clean Air Asia)</i>	From Data to Solutions: How cities use monitoring data to plan and implement solutions <i>(Clean Air Asia, Ricardo, ADB)</i>	Clean Cooking and Heating Solutions <i>(USEPA, Clean Cooking Alliance, CCAQ)</i>	Financing Clean Air Action through Climate and Other Funds (Part 2) <i>(ADB, Clean Air Asia)</i>	Science-based Policy Making and Action for Clean Air: Asia experience sharing and exchange (part 2) <i>(Peking University, Clean Air Asia)</i>
<b>18:00 – 20:00</b> WELCOME COCKTAILS				

## DAY 2 MAIN CONFERENCE | PLENARY SESSIONS

Main Auditorium

### 09:00 – 10:30 - OPENING PLENARY

#### KEYNOTE PRESENTATION

**Bruno Carrasco**, *Director General, Climate Change and Sustainable Development Department, Asian Development Bank*

Action on air pollution to protect human rights

**Dr. David Boyd**, *UN Special Rapporteur on human rights and environment, Associate Professor at University of British Columbia (Virtual)*

#### PANEL DISCUSSION: Sectors Working Together to Achieve Clean Air for Health and the Climate

Sectoral actions are key to fighting air pollution, climate change and sustainable development goals. This panel discussion will elaborate on the proven as well as the most promising solutions in the energy, transportation, industry, urban development, agriculture, household energy, and waste sectors to achieve clean air, health, climate and sustainable development goals; and how sectors can work together to achieve optimal results.

Moderator: **Glynda Bathan-Baterina**, *Clean Air Asia*

Panelists:

- **Manoj Sharma**, *Director, Water and Urban Development Sector Office, Asian Development Bank*
- **Hadika Jamshaid**, *Climate Change Expert, Ministry of Climate Change, Pakistan*
- **Dr. Tran Dai Nghia**, *Director, Department of Natural Resources and Environmental Economics Studies, and Head of Climate Change Research Group, Institute of Policy and Strategy for Agriculture & Rural Development (IPSARD), Vietnam*
- **Anobha Gurung**, *Director, Nepal Research, Evidence and Learning, Clean Cooking Alliance*
- **Mark Kasman**, *Director, Office of International Affairs, Office of International and Tribal Affairs, US Environmental Protection Agency*

### 11:00 -12:30 - PANEL DISCUSSION

#### INTRODUCTION

**Dr. Fu Lu**, *China Director, Clean AirAsia*

**FIRESIDE CHAT:** With special focus on the importance of developing clean air roadmaps/plans as a systematic approach for acting and role of decision-makers in initiating momentum and sustaining commitment.

Moderator: **Milag Ballesteros**, *Regional Director for East, Southeast Asia and Oceania, C40*

Panelists:

- **Hon. Joy Belmonte**, *Mayor, Quezon City Government, Philippines*
- **Hon. Jeevan Khatri**, *Mayor, Changuarayan Municipality, Kathmandu Valley, Nepal*
- **Decky Priambodo Koesrindartono**, *Head of Planning Agency, Tangerang City, Indonesia*

#### PANEL DISCUSSION: CITIES FORUM: Clean Air and Climate Solutions from Cities, for Cities

To learn from city representatives the key milestones, challenges and opportunities of their cities in their efforts to clean the air and adopt low-carbon solutions; and their recommendations for other cities that want to combat air pollution.

Moderator: **Dr. Archana Walia**, *India Director, Clean Air Asia*

Panelists:

- **Xie Jinkai**, *Deputy Director of the Air Division, Beijing's Municipal Ecology and Environmental Bureau*
- **Luu Thanh Chi**, *Deputy Director, Hanoi Environmental Protection Agency, Vietnam*
- **Hoang Thu Hong**, *Head of the Propaganda Department, Hanoi Women's Association, Hanoi, Vietnam*
- **Davit Aslanishvili**, *Project Manager, Tbilisi Transport and Urban Development Agency, (TUDA), Tbilisi, Georgia*
- **Dr. K. S. Jayachandran**, *Special Secretary, Environment Department, Delhi Secretariat and Member Secretary, Delhi Pollution Control Board, India (Virtual)*

## TRACK 1- URBAN DEVELOPMENT AND TRANSPORT

# Accelerating Green Ports and Shipping Development in Asia

Day 2 - (Part 1 – 14:00-15:30)

Auditorium 1

### BACKGROUND

Today's ports and shipping sectors face enormous challenges and opportunities. With the adoption of the IMO's 2023 revised GHG strategy and the EU's Fit for 55, the shipping sector must accelerate decarbonization by transitioning from fossil fuels to zero emission fuels, and ports, which serve as important transportation hubs that provide shipping services and facilitate global trade, must secure supply of zero emission fuels and can provide incentives to ship operators with good environmental performance.

Asia, the world's leading maritime cargo handling centre, accounted for 42% of exports and 64% of imports (UNCTAD, Review of Maritime Transport 2022), and possessed 50 of the top one hundred container ports. As a result, Asia is one of the most critical regions that need to take action to minimize environmental impacts from the port and shipping sectors, while supporting global shipping to achieve net-zero GHG emissions by 2050.

Many studies, policies, and industry initiatives are currently underway to promote the adoption and commercialization of zero-emission fuels, with some countries taking the lead in exploring the pathways, such as the Maritime Singapore Green Initiative, the green shipping corridor between the San Pedro Bay Port Complex and Singapore, and the green shipping corridor between the Port of Los Angeles and the Port of Shanghai. It is critical to enable information sharing and stakeholder discussion among Asian countries to foster Asia's decarbonization efforts.

This session discusses the status of green ports and maritime development in Asian countries, as well as the most recent regulatory and decarbonization endeavours. Built on that, this session will discuss the solutions in Asia and create space for regional cooperation.

### OBJECTIVE

The session aims to highlight opportunities for Asian countries to decarbonize ports and shipping. Participants will have the opportunity to:

- Gain an understanding of existing policies and efforts in Asia to reduce emissions from ports and shipping,
- Discuss the challenges and opportunities for Asian countries under the 2023 IMO GHGs Strategy and the EU's fit for 55.
- Learn about renewable energy fuels and green shipping corridor development,
- Investigate cooperation potentials in Asia.

### SESSION ORGANIZER

Clean Air Asia

### PROGRAMME

#### *Part 1: Green Ports and Shipping Development in Asia: Status*

#### OPENING

Moderator: **Dr. Lu Fu**, China Director, Clean Air Asia

#### PRESENTATION

- Asia: An Inside Look into Green Ports and Shipping Development in Asia  
**Raymund Abad**, Sustainable Transport Lead, Clean Air Asia

#### PITCH DECK - State of Play in Asian Countries:

- Thailand: **Mayuree Deeroop**, Port Authority of Thailand
- Sri Lanka: **Lakshi Wasantha**, Sri Lanka Ports
- South Korea: **Ki-hoon Kim**, Carbon Neutral Business Department, Busan Port Authority
- Vietnam: **Giang Hoang Hong**, Viet Nam Maritime Administration
- China: **Renjie Wang**, Transport Planning and Research Institute, Ministry of Transport of PRC
- Philippines: **Nino Biscocho**, Port Operations and Services Department, Philippine Ports Authority
- Indonesia: **Marwanto Santoso**, Center for Sustainable Transportation Management, MOT

#### ROUNDTABLE DISCUSSION

Panelists: **Above Speakers**

#### PART 1 CLOSING

## TRACK 2 – INDUSTRY AND ENERGY

# Air Quality Monitoring Systems: Increasing data coverage and ensuring reliability

Day 2 - (14:00 -15:30)

Auditorium 2

### BACKGROUND

Effective air quality management requires access to accurate air pollution measurements that inform compliance and impact assessments, as well as policy development and implementation. Different techniques and technologies may be employed but the key principles remain the same (i.e., the data collected matches the air quality monitoring objectives, meets the target data coverage, and demonstrates accuracy and reliability).

The fast pace of technological advances and policy developments requires constant capacity building on air quality monitoring. Clean Air Asia recognizes the need for opportunities to share the latest information on air quality monitoring techniques and approaches, from ground-based (reference-grade and low-cost) to remote sensing monitoring. The strengths, challenges, limitations, and applications of each monitoring system type will be discussed in this session, highlighting how the various approaches contribute to the development of effective policies and actions in addressing air pollution challenges.

### OBJECTIVES

This session aims to highlight how different air quality monitoring systems are set-up, operated, and maintained, and how they complement air quality management efforts.

It will provide an overview of the latest development in this field and give participants an opportunity to discuss with global experts monitoring techniques and technologies and their implications on air quality management in different regions. The sharing of knowledge, experiences, and lessons learned are envisioned to foster collaboration among experts in the field, contributing to the development of strategies to tackle the air pollution issue in the region.

### SESSION ORGANIZER

Clean Air Asia

### PROGRAMME

#### OPENING REMARKS:

**Everlyn Tamayo**, *Air Quality and Climate Change Science Lead*, Clean Air Asia

#### PRESENTATION

- Monitoring Black Carbon & Ultrafine Particles: Importance, guidelines, quality assurance and capacity building  
**Dr. Alfred Wiedensohler**, *Director*, European Center for Aerosol Calibration and Characterization
- Satellite-based data analysis and modelling  
**Dr. Leonor Tarrason**, *Research Director for Environmental Solutions*, Norwegian Institute for Air Research (NILU)
- Low-cost monitoring in Hanoi, Vietnam  
**Dr. Akie Yuba**, *Atmospheric Research Department*, Asia Center for AirAa Pollution Research (ACAP)
- Robust air quality monitoring in China  
**Fu Qingyan**, *Deputy Director*, Shanghai Academy of Environmental Sciences

#### PANEL DISCUSSION

Moderator: **Everlyn Tamayo**, *Air Quality and Climate Change Science Lead*, Clean Air Asia

Panelists: **All previous speakers**

**TRACK 3 - AGRICULTURE, WASTE, HOUSEHOLD ENERGY AND OTHER SOURCES**

**The Climate Imperative: Addressing Short Lived Climate Pollutants in Public Policy**

Day 2 - (14:00 –15:30)

Auditorium 3

**BACKGROUND**

Short-Lived Climate Pollutants (SLCPs) such as methane, black carbon, tropospheric ozone, and hydrofluorocarbons have contributed to up to 45% of net warming to date and have significant impacts on human health and the environment. Moreover, the 2022 Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) highlighted the imperative to slash methane emissions by 2030 which has a global warming potential 80 times greater than carbon dioxide over a 20- year period. However, historically, SLCPs including methane have not been adequately addressed in policy making at the national and subnational level. By incorporating SLCPs mitigation in subnational plans (state and local climate action plans) and national policies (NDCs, carbon neutrality targets), governments can accelerate implementation of climate targets to stay on a pathway to 1.5C; attract greater investment to scale up action; and deliver immediate socio-economic benefits to our communities and enhance our food and agriculture systems.

To rise up to this imperative, this session brings together the experience and expertise of actors across subnational governments, civil society organizations and others that are working on integrating SLCPs in policy making across key economic sectors. The session will also discuss the opportunities and challenges that come from ambition to implementation of these policies, and the role climate finance can play in unlocking solutions to slash SLCPs in our lifetimes for the people and the planet.

**OBJECTIVE**

- (i) Understand the importance and benefits of SLCP mitigation on climate, health and the environment
- (ii) Learn about the opportunities and challenges of integrating SLCPs in public policy
- (iii) Understand how climate finance can unlock fast action on SLCP to collectively meet our 1.5C aligned climate goals and maintain thriving communities and ecosystems.

**SESSION ORGANIZERS**

Global Methane Hub, CCAC

**PROGRAMME**

**KEYNOTE PRESENTATION**

**Heather Adair Rohani**, *Acting Lead*, Air Quality and Health, World Health Organization

**PANEL DISCUSSION**

Moderator: **Manjot Ahluwalia**, *Regional Lead*, Global Methane Hub

Panelists:

- **Erni Pelita Fitratunnisa**, *Head*, Pollution and Environment Degradation Control Division, Jakarta Environment Agency
- **Vivek Chandran**, *Director*, Climate Insights, Shakti Sustainable Energy Foundation
- **Anna Song**, Methane Solutions for Our Climate, South Korea
- **Akshat Patni**, *State Coordinator*, IGSD

**CLOSING REMARKS: Martina Otto**, *Head of Secretariat*, Climate and Clean Air Coalition

TRACK 4 - SPOTLIGHT 1

## Financing Clean Air Action through Climate Funds and Other Funds - Part 1

Day 2 - (14:00 –15:30)

Auditorium 4

### OBJECTIVE

This session will be a deep dive into the available resources to finance clean air and climate solutions. Panelists will share the key criteria for accessing funds from their respective organizations and unpack the financing challenges and present ways to address them.

### SESSION ORGANIZERS

Asian Development Bank, Clean Air Asia

### PROGRAMME

#### MODERATOR

**Karma Yangzom**, *Principal Environment Specialist*, Asian Development Bank

#### OPENING

**Warren Evans**, *Special Senior Advisor*, Climate Change, Office of the President, Asian Development Bank

#### PRESENTATIONS

- **Yu Kamei**, *Director, International Cooperation Office, Environmental Management Bureau, Ministry of the Environment, Japan*
- **Marcus Mayr**, *Climate Change Urban Sector Senior Specialist, Green Climate Fund [virtual]*
- **Sojung You**, *International Cooperation Specialist, Air Quality Policy Division, Ministry of the Environment, Korea- [virtual]*
- **Jasmine Bourne**, *Economic Counsellor, British Embassy Manila*
- **Tatsuya Yanase**, *JFJCM, Asian Development Bank*

#### OPEN FORUM

#### CLOSING REMARKS

TRACK 5 – REGIONAL COOPERATION FOR CLEAN AIR

## Science-based policy making and action for clean air: Asia experience sharing and exchange – Part 1

Day 2 - (14:00-15:30)

Multi-Function Hall 3

### BACKGROUND

Atmospheric chemistry research has been growing rapidly in the People's Republic of China (PRC) in the past decades, the better understanding of sources and emission inventories, atmospheric chemical processes, interactions of air pollution with meteorology, weather and climate, and health effects has provided robust scientific support to highly successful air pollution control policies in PRC.

PRC has achieved significant improvements in overall air quality while undergoing rapid developments in terms of national economy, industrialization, and urbanization. In 2013-2021, PRC's overall annual average PM<sub>2.5</sub> and SO<sub>2</sub> concentrations have fallen by approximately 56% and 78%, respectively. Significant improvements in air quality have resulted in substantial health benefits, including increased life expectancy, reduced premature death related with air pollution, and savings in medical expenditures.

We believe the developing and low-income Asian countries that are heavily affected by air pollution can benefit from these research advances, science-based policies and experiences in air quality management.

This session will be a joint event effort of Peking University and Clean Air Asia, supported by projects, including Basic Research on the Causes and Response Mechanisms of Atmospheric Complex Pollution in China (NNSF), China Air Report: 10-Year Special Issue (Clean Air Asia), Health Effects Assessment of China's Air Quality Improvement (Clean Air Asia and PKU), and Monsoon Asia Integrated Study for Sustainability (Future Earth and PKU)

### OBJECTIVE

The session aims to inspire more countries and cities in Asia to move toward cleaner air and green transition and identify opportunities for research and practice training, exchange and collaboration. The session will discuss the following:

- Sources and emission inventories
- Atmospheric chemical processes
- Interactions of air pollution with meteorology, weather and climate
- Health effects
- Key progress in policies

### SESSION ORGANIZERS

Peking University, Clean Air Asia, with support from NNSF, MAIRS-FE

### PROGRAMME

#### *Part 1: Science Advances and Application*

#### OPENING REMARKS

**Shiqiu Zhang**, *Professor*, College of Environmental Sciences and Engineering, Peking University; *Member, Board of Trustee*, Clean Air Asia

**KEYNOTE PRESENTATION:** *How to Build a Scientific Base for Clean Air Policy in PRC: Program on the Causes and Mechanisms to Address PRC's Composite Air Pollution*

**Tong Zhu**, *Academician/Professor*, Chinese Academy of Sciences, College of Environmental Sciences and Engineering, Peking University

#### PRESENTATIONS

- Multi-resolution emission inventory for PRC and applications in policy  
**Qiang Zhang**, *Professor/Deputy Director*, Department of Earth System Science, Tsinghua University
- Atmospheric chemical processes: monitoring, modeling and data assimilation  
**Zifa Wang**, *Professor/Director*, Key Laboratory of Atmospheric Boundary Layer Physics and Atmospheric Chemistry, Institute of Atmospheric Physics, Chinese Academy of Sciences
- Interactions of air pollution with meteorology, weather and climate in Asia  
**Aijun Ding/ Wei Nie**, *Professor*, School of Atmospheric Sciences, Nanjing University\*

#### ASIAN DIALOGUE

Facilitator: **Shiqiu Zhang**, *Professor*, College of Environmental Sciences and Engineering, Peking University; *Member, Board of Trustees*, Clean Air Asia

Participants: **All previous speakers**

Panelists:

- **Nguyen Thi Kim Oanh**, *Professor*, Asian Institute of Technology, Thailand
- **Puji Lestari**, *Professor*, Institute of Technology Bandung, Indonesia
- **Mukesh Sharma**, *Professor*, India Institute of Technology (IIT) Kanpur, India

## TRACK 1- URBAN DEVELOPMENT AND TRANSPORT

# Accelerating Green Ports and Shipping Development in Asia – Part 2

Day 2 – (16:00-17:30)

Auditorium 1

### BACKGROUND

Today's ports and shipping sectors face enormous challenges and opportunities. With the adoption of the IMO's 2023 revised GHG strategy and the EU's Fit for 55, the shipping sector must accelerate decarbonization by transitioning from fossil fuels to zero emission fuels, and ports, which serve as important transportation hubs that provide shipping services and facilitate global trade, must secure supply of zero emission fuels and can provide incentives to ship operators with good environmental performance.

Asia, the world's leading maritime cargo handling center, accounted for 42% of exports and 64% of imports (UNCTAD, Review of Maritime Transport 2022), and possessed 50 of the top one hundred container ports. As a result, Asia is one of the most critical regions that needs to take action to minimize environmental impacts from the port and shipping sectors, while supporting global shipping to achieve net-zero GHG emissions by 2050.

Many studies, policies, and industry initiatives are currently underway to promote the adoption and commercialization of zero-emission fuels, with some countries taking the lead in exploring the pathways, such as the Maritime Singapore Green Initiative, the green shipping corridor between the San Pedro Bay Port Complex and Singapore, and the green shipping corridor between the Port of Los Angeles and the Port of Shanghai. It is critical to enable information sharing and stakeholder discussion among Asian countries in order to foster Asia's decarbonization efforts.

This session discusses the status of green ports and maritime development in Asian countries, as well as the most recent regulatory and decarbonization endeavors. Built on that, this session will discuss the solutions in Asia and create space for regional cooperation.

### OBJECTIVE

The session aims to highlight opportunities for Asian countries to decarbonize ports and shipping. Participants will have the opportunity to:

- Gain an understanding of existing policies and efforts in Asia to reduce emissions from ports and shipping
- Discuss the challenges and opportunities for Asian countries under the 2023 IMO GHGs Strategy and the EU's fit for 55.
- Learn about renewable energy fuels and green shipping corridor development
- Investigate cooperation potentials in Asia

### SESSION ORGANIZER

Clean Air Asia

### PROGRAMME

#### MODERATOR

**Bert Fabian**, *Coordinator, Secretariat for EANET, UNEP*

**RECAP PART 1:** *The Moderator highlights key points from the presentations/speeches and wraps up part one.*

#### PRESENTATIONS

- Tightening GHG Regulations for International Shipping: How can Port Operators and Ship Operators Work Together  
**Huihui Cheng**, *Transport Program Manager, Clean Air Asia*
- Green Energy Transition in Ports and Shipping Sector: Opportunities and Challenges  
**Ninan Biju Oommen**, *Senior Port & Maritime Transport Specialist, The World Bank*
- Feasibility and Approach to Green Shipping Strategies  
**Shane Balani**, *Director for Research & Projects, Global Centre for Maritime Decarbonisation*

**STAKEHOLDER DIALOGUE:** *How can Asia countries collaborate to accelerate decarbonization?*

- **Ninan Biju Oommen**, *Senior Port & Maritime Transport Specialist, The World Bank*
- **Shane Balani**, *Director of Research & Projects, Global Centre for Maritime Decarbonisation*
- **Chris Chatterton**, *COO, Methanol Institute*
- **Ahila Karan**, *Senior Decarbonisation Analyst, Lloyd's Register (remotely, TBC)*
- **Freda Fung**, *Consultant, Climate Works Foundation*

#### Q&A and CLOSING



TRACK 2 - INDUSTRY & ENERGY

## From Data to Solutions: How cities use monitoring data to plan and implement solutions

Day 2 - (16:00 –17:30)

Auditorium 2

### OBJECTIVE

This event will bring together national policy makers, regulatory authorities, public health specialists, NGOs, and ADB project officers to discuss how cities can use monitoring data to plan and implement air quality solutions.

The sessions will provide case studies and knowledge sharing on topics including data strategies in low-income countries, using sensors to identify pollution hotspots, and opportunities for public engagement using data from monitoring stations. Furthermore, lessons learned on how to maximize the use of data in the planning and implementation of policies will be highlighted.

### SESSION ORGANIZERS

Asian Development Bank, Clean Air Asia, Ricardo

### PROGRAMME

#### OPENING

**Srinivas Sampath**, *Director*, Emerging Business Areas- Asia Pacific Water and Urban Development Sector Office, Asian Development Bank

#### EVENT OVERVIEW

**Tom Buckland**, *Associate Director*, Ricardo

#### PRESENTATIONS

- Clean Air Fund and Breathe Cities Data Strategy  
**Sean Maguire**, *Director of Strategic Partnerships*, CAF
- Public engagement & hotspot identification  
**Jo Green**, *Associate Director*, Ricardo
- Case study on ensuring data to action at the city level: The Quezon City Air Quality Management Project  
**Ms. Dang Espita-Casanova** Program Manager, Clean Air Asia

#### PANEL DISCUSSION

Moderator: **Tom Buckland**, Ricardo

Panelists: **All Previous Speakers**

#### FOLLOW UP SURVEY

#### CLOSING

TRACK 3 - AGRICULTURE, WASTE, HOUSEHOLD ENERGY AND OTHER SOURCES

## Clean Cooking and Heating Solutions

Day 2 - (16:00 –17:30)

Auditorium 3

### BACKGROUND

Cooking and heating in homes in Asia and throughout the world are a significant contributor to ambient air pollution (20% globally, significantly higher in Asian cities depending on region and season), CO<sub>2</sub> emissions (an estimated 2% of global emissions), are the largest controllable source of Black Carbon, result in an estimated 3.2 million premature deaths annually, and have significant gender inequity and livelihood impacts.

### OBJECTIVES

This session aims to inform the audience about recently published information showing the significant contribution of household air pollution to ambient air pollution and the importance of reducing these emissions to achieve Clean Air goals in Asia and elsewhere; highlight clean cooking and heating implementation activities in China and Nepal; present research results on why energy access is not enough for choosing clean cooking fuels and what determines coal consumption in two central Asian countries; discuss recent developments on how household energy projects can demonstrate a clear and important Black Carbon mitigation benefit and an initiative to develop robust cooking and carbon methodologies to inject confidence into this market; and the activities of the Clean Cooking and Carbon Consortium to work with country governments on their Nationally Determined Contribution implementation activities

### SESSION ORGANIZERS:

US Environmental Protection Agency (US EPA), Clean Cooking Alliance, Climate and Clean Air Coalition

### PROGRAMME

#### OPENING REMARKS:

**John Mitchell**, US EPA

#### BRIEF REMARKS:

**Martina Otto**, CCAC

#### PRESENTATION

- Household Air Pollution to Ambient Air Pollution  
**Dr. Sourangsu Chowdhury**, Center for International Climate Research (CICERO)
- Gender Impacts, Clean Cooking and Carbon Consortium (4C) Initiatives and USG Activities  
**Olivia Brinks**, US EPA
- Importance of Black Carbon Mitigation and Development of New Cooking and Carbon Methodology  
**Dr. Michael Johnson**, Berkeley Air Monitoring Group
- Accelerating Action on Household Air Pollution in PRC  
**Guofeng Shen**, *Professor*, Peking University
- Accelerating Action on Household Energy in Nepal  
**Dr. Anobha Gurung**, Clean Cooking Alliance
- Research Results on Cooking and Heating in Central Asia  
**Dr. Dina Azhgaliyeva**, Asian Development Bank

#### CLOSING:

**John Mitchell**, US EPA

TRACK 4 - SPOTLIGHT 1

## Financing Clean Air Action through Climate Funds and Other Funds – Part 2

Day 2 - (16:00 –17:30)

Auditorium 4

### OBJECTIVES

Following the deep dive into the available resources to finance clean air and climate solutions in Part 1, in this ‘matchmaking’ session, government representatives will present clean air project proposals that need financing and challenges in securing financing. Financiers then will respond and give advice, including on how to address these challenges from the perspectives of their respective organizations.

### SESSION ORGANIZERS

Asian Development Bank, Clean Air Asia

### PROGRAMME

#### OPENING

**Erdenetuya Darinchuluun**, *Director's Advisor*, Asian Development Bank

#### PRESENTATION

- **Ziaul Haque**, *Director*, Department of Environment, Bangladesh
- **Timur Abylaev**, *Deputy Director*, Bishkek City Development Agency and Investment Attraction, Kyrgyzstan
- **Anujin Ganbold**, *Foreign Affairs Specialist*, National Committee for Environmental Pollution Reduction Mongolia

#### FIRST ROUND OF FEEDBACK FROM PANEL OF FINANCIERS

- **Sojung You**, Republic of Korea
- **Jasmine Bourne**, British Embassy Manila
- **Joy Amor Bailey**, Urban Resilience Trust Fund\*
- **Yu Kamei and Yumi Yasuda**, MOEJ
- **Tatsuya Yanase**, JFJCM
- **Marcus Mayr**, Green Climate Fund
- **Husni Mubarak**, *Senior Program Associate, The Global Energy Transition Initiative (an initiative funded by Bloomberg Philanthropies)*, Climateworks Foundation

#### PRESENTATION (continued)

- City 1 from TA9608 City Clean Air Action Plans:  
**Hon. Romeo Salda**, *Mayor*, La Trinidad Municipality
- City 2 from TA9608 City Clean Air Action Plans:  
**Ngo Nguyen Ngoc Thanh**, *Vice Director*, Ho Chi Minh Environmental Protection Agency\*

#### SECOND ROUND OF FEEDBACK FROM PANEL OF FINANCIERS (Same as Round 1)

#### CLOSING REMARKS:

**Erdenetuya Darinchuluun**, Asian Development Bank

TRACK 5 – REGIONAL COOPERATION FOR CLEAN AIR  
**Science-based policy making and action for clean air: Asia  
experience sharing and exchange – Part 2**

Day 2 - (16:00-17:30)

Multi-Function Hall 3

#### BACKGROUND

Atmospheric chemistry research has been growing rapidly in the People's Republic of China (PRC) in the past decades, the better understanding of sources and emission inventories, atmospheric chemical processes, interactions of air pollution with meteorology, weather and climate, and health effects has provided robust scientific support to highly successful air pollution control policies in China.

PRC has achieved significant improvements in overall air quality while undergoing rapid developments in terms of national economy, industrialization, and urbanization. In 2013-2021, PRC's overall annual average PM<sub>2.5</sub> and SO<sub>2</sub> concentrations have fallen by approximately 56% and 78%, respectively. Significant improvements in air quality have resulted in substantial health benefits, including increased life expectancy, reduced premature death related with air pollution, and savings in medical expenditures.

We believe the developing and low-income Asian countries that are heavily affected by air pollution can benefit from these research advances, science-based policies and experiences in air quality management.

This session will be a joint event effort of Peking University and Clean Air Asia, supported by projects, including Basic Research on the Causes and Response Mechanisms of Atmospheric Complex Pollution in China (NNSF), China Air Report: 10-Year Special Issue (Clean Air Asia), Health Effects Assessment of China's Air Quality Improvement (Clean Air Asia and PKU), and Monsoon Asia Integrated Study for Sustainability (Future Earth and PKU)

#### OBJECTIVE

The session aims to inspire more countries and cities in Asia to move toward cleaner air and green transition and identify opportunities for research and practice training, exchange and collaboration. The session will discuss the following:

- Sources and emission inventories
- Atmospheric chemical processes
- Interactions of air pollution with meteorology, weather and climate
- Health effects
- Key progress in policies

#### SESSION ORGANIZERS

Peking University, Clean Air Asia, with support from NNSF, MAIRS-FE

#### Part 2: Action for Clean Air

#### RECAP AND OVERVIEW

**Dr. Lu Fu**, *China Director*, Clean Air Asia

#### PRESENTATION

- National Clean Air Actions and Experiences Sharing  
**Jingnan Hu**, *Director, Institute of Atmospheric Environment, Chinese Research Academy of Environmental Sciences*
- Municipal Clean Air Actions and Experiences Sharing  
**Xiangchao Xu**, *Director, Policy Research Division, Beijing Municipal Bureau of Ecology and Environment*
- Health Effects of Air Pollution: PRC Progress and Regional Challenges in Asia  
**Tao Xue**, *Associate Professor, Peking University*
- China's 10-Year Path Toward Cleaner Air: An Asian Perspective  
**Wei Wan**, *China Program Director, Clean Air Asia*

#### ASIAN DIALOGUE

Facilitator: **Dr. Lu Fu**, *China Director*, Clean Air Asia

Participants: **All Previous Speakers**

Panelists:

- **Dr. Sakda Tridech**, *Director of Air Quality and Noise Innovation Sub-division, Pollution Control Department, Thailand (Virtual\*)*
- **Erni Pelita Fitratunnisa**, *Head, Environmental Pollution Division, Jakarta, Indonesia\**
- **Raphael de Leon**, *Officer, Bataan Province Government, Philippines*

#### OPEN FORUM

#### CLOSING REMARKS

**Dr. Lu Fu**, *Clean Air Asia*