





Concept Note

Symposium on Integrated Management of Air Pollution to Respond to Climate Change

September 4, 2025 Conference Room 301, Kintex 2, Ilsan, Republic of Korea

Background

Air pollution and climate change are closely interconnected, sharing common sources and mitigation pathways. Actions to reduce air pollutants can - contribute significantly to climate change mitigation - particularly when focused on upstream and systemic solutions such as clean energy transitions and sustainable transport. However, certain end-of-pipe measures may have unintended consequences, including increased energy use or the removal of cooling aerosols like sulfur, which could unmask against warming.

Recognizing the importance of designing integrated strategies that maximize cobenefits while minimizing trade-offs, the Symposium will bring together policy makers, scientists, international organizations, and technical experts to promote holistic approaches that respond to both air pollution and climate change challenges.

The Symposium is jointly organized by the United Nations ESCAP Subregional Office for East and North-East Asia, in its capacity as the secretariat of the North-East Asian Subregional Programme for Environmental Cooperation (NEASPEC), and the National Air Emission Inventory and Research Center (NAIR) of the Republic of Korea, which serves as a Technical Centre for the North-East Asia Clean Air Partnership (NEACAP) - a flagship programme under NEASPEC. This event aims to strengthen international cooperation, share national experiences, and explore innovative, evidence-based solutions for integrated environmental management.

Objectives

• Emphasize the co-benefits of integrated air pollution control and climate change mitigation, while recognizing potential unintended impacts of certain

- technologies or strategies.
- Share scientific knowledge and policy experiences related to short lived climate pollutants (SLCPs) including black carbon-, and wildfire-related air pollution.
- Promote international cooperation, technological innovation, and interdisciplinary approaches for sustainable air quality and climate strategies.
- Facilitate dialogue on policy packages that utilize the synergies across air quality, health, and climate goals in a mutually reinforcing manner.

Organizers

- United Nations ESCAP Subregional Office for North-East Asia
- National Air Emission Inventory and Research Center (NAIR), Ministry of Environment, Republic of Korea

Expected Outcomes

- Enhanced understanding of integrated approaches targeting both air pollution and climate change.
- Shared national experiences on wildfire management and SLCP reduction.
- Strengthened partnership among participating countries, international organizations, and research institutions.
- Practical recommendations for advancing integrated air quality and climate strategies at national and regional levels.

Proposed Sessions

Session 1: Linkage between Climate Change and Air Pollution

This session will explore the complex interlinkages between climate change and air pollution, emphasizing the importance of integrated management approaches that account for both synergies and trade-offs. International organizations and leading experts will present recent findings on how air pollution control measures can support climate goals. The session will promote a systems-thinking approach and discuss the implications of designing effective and balanced policy packages.

Session 2: National Responses to Air Pollution from Climate-Driven Events

This session will introduce national efforts to manage air pollution stemming from climate change-related events, such as wildfires, dust storms, and extreme weather incidents. Case studies will be shared by countries experiencing severe impacts, highlighting wildfire smoke management, black carbon mitigation, and broader

approaches to controlling air pollution exacerbated by climate extremes.

Session 3: Innovative Approaches and Multi-stakeholder Cooperation for Integrated Management of Climate Change and Air Pollution

This session will highlight forward-looking approaches to integrating air quality and climate policies. Discussion will feature co-benefits approaches, digital technologies, and policy innovations enabled through international and multi-stakeholder cooperation. The session will promote actionable strategies for coordinated governance, inclusive policy development, and sustainable international collaboration to address shared air and climate challenges.

Provisional Programme

Time	Programme
09:00-09:30	Registration
09:30-09:50	 Opening and congratulatory remarks: Mr. Heun-jin Oh, Head, National Air Emission Inventory and Research Center, Republic of Korea Mr. Ganbold Baasanjav, Head, UNESCAP East and North-East Asia Office Mr. Ki-moon Ban, Chairman, Ban Ki-moon Foundation for a Better Future (Video message)
9:50-11:20	 Session 1. Linkage between Climate Change and Air Pollution Mr. Sangmin Nam, Director, Environment and Development Division, UNESCAP Mr. Sang-wook Yeh, Professor, Hanyang University Ms. Wei Wan, Acting China Director, Clean Air Asia Q & A
11:20-11:40	Break
11:40-13:00	 Session 2. National Responses to Air Pollution from Climate-Driven Events Ms. Seungmin Lee, Korea Environnent Institute Ms. Gantuya Ganbat, Assistant Professor, German-Mongolian Institute for Resources and Technology, Mongolia Mr. Philippe Ciais, Research Director, Laboratoire des Sciences du Climat et de l'Environnement (LSCE), France (online) Mr. Israr Albar, Deputy Director, Directorate of Forest Fire Management, Ministry of Forestry, Indonesia (online)

	Q & A
13:00-15:00	Lunch
	Session 3. Innovative Approaches and Multi-stakeholder Cooperation for Integrated Management of Climate Change and Air Pollution
	Mr. Jung-hun Woo, Professor, Seoul National University
	Mr. Eric Zusman, Senior Policy Researcher/Area Leader, Institute for Global Environmental Strategies (IGES) (online)
15:00-16:30	Ms. Lara Aleluia Reis, Scientist, Euro-Mediterranean Center on Climate Change (CMCC) (online)
	Ms. Kessinee Unapumnuk, Environmentalist, Senior Professional
	Level, Air Quality and Noise Management Division, Pollution Control
	Department, Thailand
	Q & A
	Closing Remarks
	Mr. Juhong, Kang, Director General of Office for Clean Air, Office for
	Government Policy Coordination
16:30-17:00	Ms. Gantuya Ganbat, Chair of the Science and Policy Committee of
	NEACAP and Assistant Professor, German-Mongolian Institute for
	Resources and Technology, Mongolia