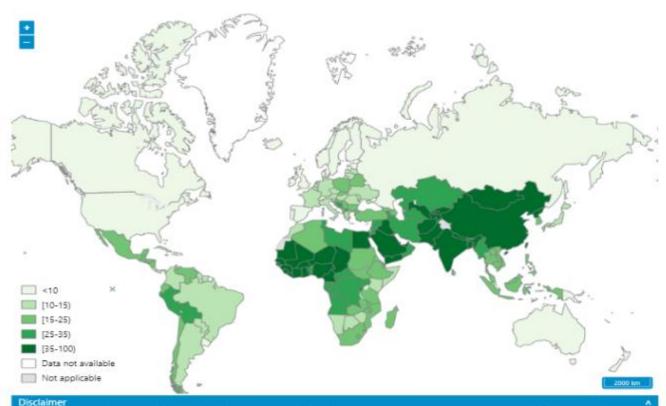
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Asia-Pacific Regional Action Programme on Air Pollution (RAPAP)

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PM_{2.5} Concentration



The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country,



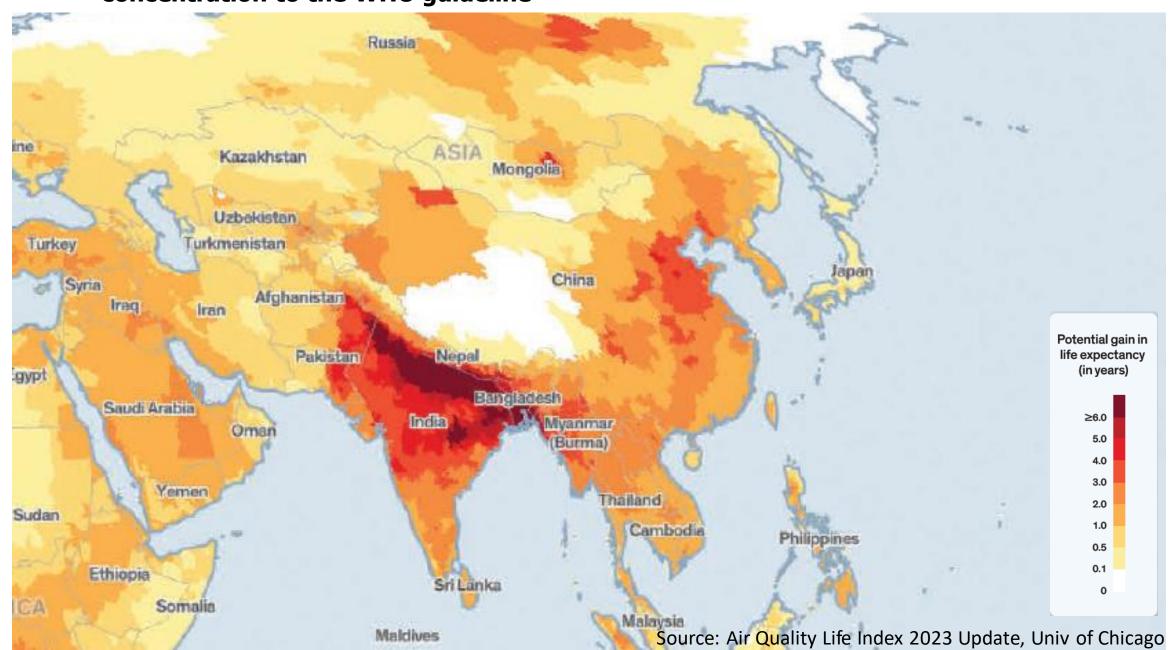
Asia-Pacific Regional Context of Air Pollution

- High level of air pollution concentration and premature death
- Increasing awareness and commitment

Compliance rate of settlements with the WHO air quality guidelines and annual PM targets



Potential gain in life expectancy from permanently reducing PM2.5 from 2021 concentration to the WHO guideline



Multilateral cooperation on air pollution in Asia and the Pacific

North-East Asia Clean Air Partnership (NEACAP)
(all 6 NEA countries)

Acid Deposition Monitoring Network in East Asia (EANET)
(13 countries in East Asia, excl. DPRK)

ASEAN Agreement on Transboundary Haze Pollution (Haze Agreement) (10 ASEAN countries)

- Diverse subregional & multistakeholder cooperation mechanisms
- However, most face significant constraints like limited geographical & institutional mandate, insufficient technical & financial capacity

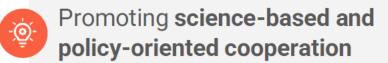
Malé Declaration on Control and Prevention of Air Pollution and its Likely Transboundary Effects for South Asia (Malé Declaration)
(8 member countries)

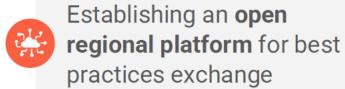
Asia-Pacific Regional Action Programme on Air Pollution

- Negotiated and adopted under auspices of ESCAP as the only regional legislative organ in the Asia-Pacific
- RAPAP represents collective aspiration and consensus among countries in the region to combat air pollution
- Adopted at ESCAP's 7th Committee on Environment and Development in 2022
- Endorsed by member States through resolution 79/6 at the 79th Commission Session in 2023

Asia-Pacific Regional Action Programme on Air Pollution

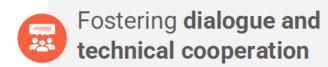
Objectives







Identifying technical and financial resources for multilateral and cooperative action



Action areas



Improving existing Strengthening national air quality capacity for air standards and pollution sectoral air quality inventories and management sharing data and good practices policies



Air quality monitoring and data sharing

> Sharing solutions and best practices and encouraging engagement of multilateral and multistakeholder platforms



Best practices exchange



Capacity building



Commitment to multilateral cooperation

Supporting national air quality policies and regulations, and building technical capacities for data management, sectoral policies and clean technologies including through leveraging partnerships

Strengthening existing platforms, engaging national experts in regional scientific and technical activities, and facilitating highlevel dialogues and engagement of stakeholders and scientific institutions

RAPAP Platform (under development)

- RAPAP provision: Para 6(b) "To establish an **open regional platform** for the exchange of information and best practices on air pollution challenges and solutions, as may be deemed necessary and appropriate by members and associate members of ESCAP"
- Online regional platform to support partnerships and coordination among existing multilateral, subregional and multistakeholder cooperation mechanisms
- Provide repository of collaborative work at regional and multilateral levels
- Catalyze joint capacity building projects on clean air



Enhanced capabilities to adopt innovative technologies for city air pollution control in select countries of the Asia-Pacific

Asian and Pacific Centre for Transfer of Technology

(ESCAP-APCTT)

Project objective: Strengthened policies to facilitate adoption of innovative technologies for controlling air pollution in the Asia-Pacific

Main achievements

01

Nearly 600 city officials and national policy makers in 3 cities have enhanced awareness on air pollution as well as technology and policy options available for air pollution control

04

Exposure to advanced technology and policy strategies on air pollution in the **Republic of Korea** to 10 city officials and national policy makers from 3 cities

02

Compendium of Air
Pollution Control
Technology available for
countries to identify
and/or select appropriate
technologies

03

Contextualized analysis
of city-level air pollution
technology needs and
gaps for 3 cities provides
a direction for
technological way
forward

05

Contextualized

assessment of gaps and
next steps to strengthen
City Action Plans and
policy frameworks in the
3 cities

06

Operational learnings from project shared through **Regional Workshop** - 21 Dec 2023 and **knowledge products** to help scale up actions across Asia- Pacific region.



Thailand Stakeholder Consultation



Study Tour on innovative technologies for air pollution control to the Republic of Korea

Key findings from city level assessments

	Key Concerns	Critical Technologies	Critical Policy Areas
Bangkok	 Transport related pollution Industrial Emissions Agri Waste burning Road Dust Construction Dust Street Food and Home Cooking Air Shed effect Cross Border Effect 	 Diesel Particulate Filter Electric Vehicles Remote sensors - vehicles Low-cost sensors Low Emission Zones Continuous Emission Monitoring Systems (CEMS) for Industries Apps to monitor Agri waste burning Cleaner Cooking Fuels 	 Retire old vehicles; Incentives, Infra for EV Move from Diesel to EV – Govt./ Pub. Trans. Subsidize public transport. Control Agri waste burning / cleaner cooking fuels Alternate use for straw Tech to monitor Agri burning Self Monitoring, CEMS – Industries Put in place higher emission norms Closer monitoring of PM2.5
Gurugram	 Transport related pollution Power Plants , DG Sets Industrial Emissions Waste collection, waste burning Road and Construction Dust Agri Waste burning Brick Kilns Air Shed effect Cross Border Pollution 	 Airshed Approach Diesel Particulate Filters Electric Vehicles; Public E-transport Remote sensors - vehicles Low-cost sensors Intelligent traffic management systems CEMS for Industries Water fogging – construction Dust Collection Machines/Tech Solid Waste Disposal 	 Cleaner Fuels, Retire old vehicles, Higher Norms Strengthen EV, Pub. Trans. Stop Agri Waste burning Strict Monitoring of polluting industries Higher Emission Norms for industries Enhance Green Cover Enforce Dust control and collection Road Sweeping systems Dust control in construction sites
Dhaka	 Transport related pollution Brick Kilns Industrial Emissions Biomass for cooking Agri Waste burning Road and Construction Dust Air Shed effect Cross Border Pollution 	 Continuous Air Monitoring Stations (CAMS) Diesel Particulate Filters Electric Vehicles; Public E-transport Remote sensors - vehicles Low-cost sensors CEMS for Industries Water fogging – construction Anti-smog guns 	 Cleaner Fuels, Retire old vehicles, Higher Norms Strengthen EV, Public Transport Stop Agri Waste burning; Cleaner Cooking Fuels Higher Emission Norms, monitoring for industries Move Brick Kilns to Zig Zag Technology Enhance Green Cover Enforce Dust control and collection Road Sweeping systems Dust control in construction sites Source Apportionment Studies; Promote Solar Technologies

Key Knowledge Products





Azian and Pacific Cuatro for Transfer of Technology

Assessment Report

City-level Action Plan of Bangkok,

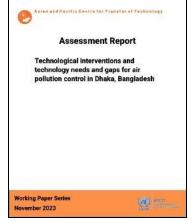
Thailand and the Strengths and

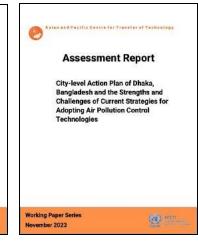
Adopting Air Pollution Control

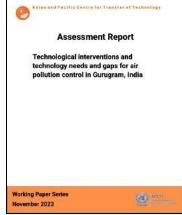
Technologies

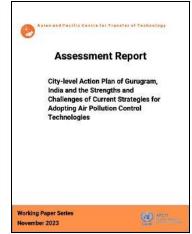
November 2023

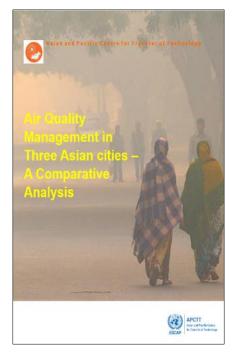
Challenges of Current Strategies for











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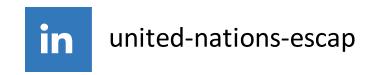












For more information, please visit the ESCAP Environment and Development Division webpage https://www.unescap.org/our-work/environment-development or contact us at: varmaa@un.org