Program Overview

Southeast Asia Air Quality (SEA-AQ) Community of Practice is an initiative funded by the U.S. Department of State, led by World Resources Institute (WRI).

SEA-AQ CoP was launched on June 1, 2023, during the Climate and Clean Air Conference 2023 at UNCC, Bangkok, connecting air quality practitioners, academics, and stakeholders, fostering collaboration through capacity-building activities and providing a platform for knowledge exchange.

The event gathered 32 participants from 8 SEA cities: Jakarta, Denpasar, Kuala Lumpur, Putra Jaya, Hanoi, Manila, Bataan, and Quezon City.

This project aims to “Establish Community of Practice in Southeast Asia countries by implementing sustained cross broader experience sharing of air quality management frameworks to address capacity gaps in the region as well as to address air quality challenges.”
Overview of Activities

Y1
- Assess needs and priorities at city, country and regional level
- Host Inaugural Meeting at Climate and Clean Air Conference, Bangkok

Y2
- Establish a sustainable experience sharing platform for air quality management in the region to include regular webinars and shared resources

Y3
- Policy Master Classes
- Science Shadow Fellows

Outcome

Outcome #1
Strengthen knowledge and technical capacity in monitoring, modeling, and other air quality management tools

Outcome #2
Foster cross-border experience sharing on best practices in clean air action planning

Digital Platform for Strengthening Communities of Practice

As we aim to foster collaboration, knowledge sharing, and skill development among professionals within an organization. Digital platforms contributed to increased engagement, and better collaboration among members.
We conducted surveys in various cities to assess the prioritization of needs at the regional level.
Climate and clean air action plans were identified as of high interest by most of the participants (81.3%) as well as data analysis, interpretation, & visualization (77.1%).

Challenge that the City is Facing

- Policy gaps in air quality management: 36 (73.5%)
- Technological capacity challenges: 29 (59.2%)
- Lack of monitoring and assessment: 30 (61.2%)
- Insufficient resources (human, budget, etc.): 32 (65.3%)
- Absence of emission inventory: 31 (63.3%)
- Limited funding (state and international budget): 29 (59.2%)
- Lack of transparency in data: 1 (2%)

Engaging Capacity Building Topics

- Air Quality Forecasting for Cities: 36
- Reference vs Hypothesised Monitoring Network: 26 (53.1%)
- Climate and Clean Air Action Plans: 37 (72.3%)
- Air Quality Data Analysis, Interpretation, and Visualization: 37 (72.5%)
- Use of Satellite Products to Identify and Quantify Emissions: 28 (57.1%)
- Evaluating Air Quality Impact Indicators to Assess Policy Interventions: 33 (67.3%)
- Waste, Climate, and Air Pollution: 28 (57.1%)
- Participatory Science in Emission Inventory: 26 (53.1%)
- Air Quality Incidental Quick Response: 25 (51%)
- Transboundary Haze Pollution: 27 (55.1%)
- Air Quality in Equity Lenses: 23 (46.9%)
- Formulating Clean Air Action Lessons from Low Emission Zones: 24 (49%)

Priority of Capacity Needs Support

- Policy and Clean Air Action Solution Formulation: 39 (79.6%)
- Data Analysis and Interpretation: 30 (61.2%)
- Air Quality Forecasting: 29 (59.2%)
- Air Quality Monitoring: 28 (57.1%)
- Emission Inventory: 32 (65.3%)
- Building Impact Indicator: 32 (65.3%)

All: 1 (2%)

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Join Our
SEA-AQ
Community of Practice
For more information:
bit.ly/SEAAQCOP