

Guidance Framework for Better Air Quality in Asian Cities

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Strengthening the Interface between Atmospheric Science and Policy in Asia

ISAP 2015 Lunch Session

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Outline



- About Clean Air Asia
- Clean Air Asia's main policy engagement platform at the regional level
 - Governmental Meetings on Urban Air Quality in Asia
- Long-term Vision on Urban Air Quality in Asia and the Guidance Framework for Better Air Quality in Asian Cities
- Reflecting science into policy through the Guidance Framework
 - Development and review process
 - Content
- Guidance Framework finalization, launch and implementation

About Clean Air Asia



Clean Air Asia is an international NGO based in the Global South that promotes better air quality and livable cities by translating knowledge to policies and actions that enable Asia's 1,000+ cities to reduce air pollution and greenhouse gas emissions from transport, energy, other sectors.

Clean Air Asia offers its partners:

- Actionable guidance for administrators and policymakers
- High-level expertise in air quality management
- An ethos of partnerships, collaboration, and cooperation as key drivers for meaningful and lasting change

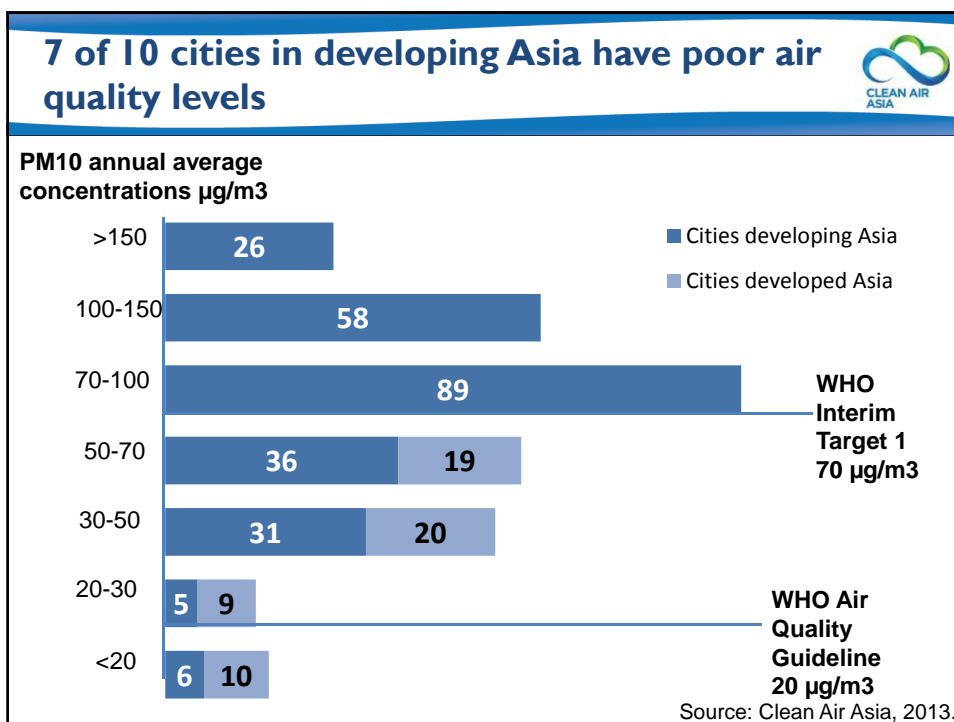
Air Quality and Climate Change

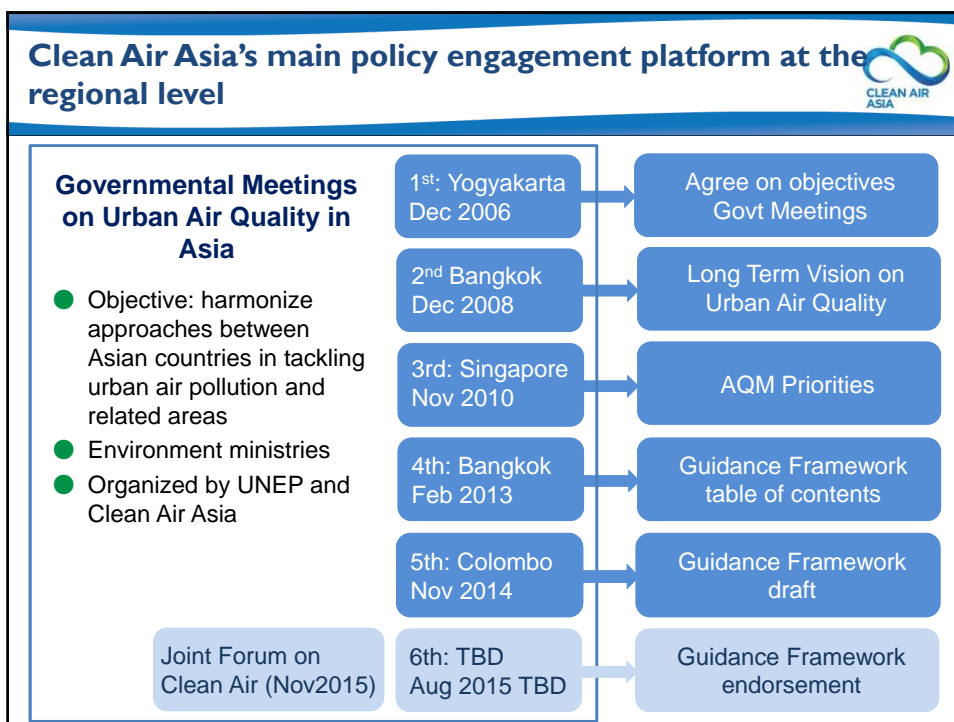
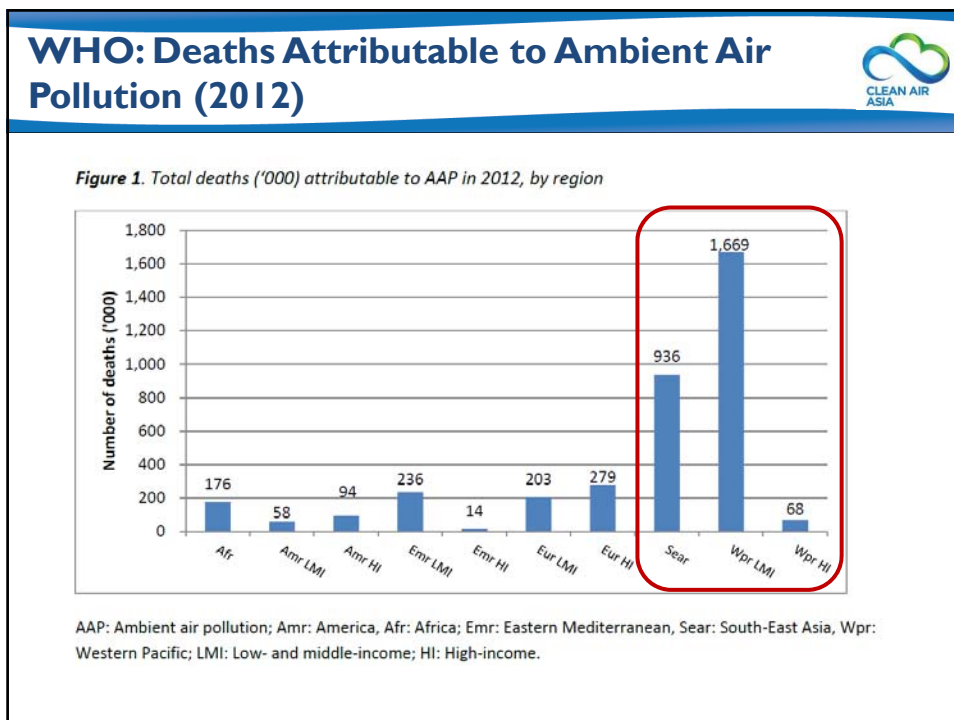
Low Emissions Urban Development

Clean Fuels and Vehicles


Green Freight and Logistics

Clean Air Asia was established as the premier air quality network for Asia by the Asian Development Bank, World Bank and USAID in 2001, and operates since 2007 as an independent non-profit organization.

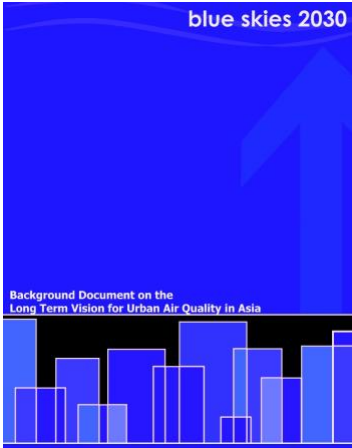




Long Term Vision on Urban Air Quality in Asia



- Why
 - help Asian cities to better understand requirements for future urban air quality management strategies
- Vision
 - Healthy people in healthy cities, which put emphasis on prevention of air pollution and which implement effective and appropriate strategies for the abatement of air pollution




Background Document on the Long Term Vision for Urban Air Quality in Asia

http://cleanairinitiative.org/portal/sites/default/files/documents/LTV_UAQM_Final.pdf

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Main recommendations from Fourth Governmental Meeting



- Agreed to develop **Guidance Framework** on Urban Air Quality in Asia which will provide guidance in implementing Long-Term Vision for Urban Air Quality in Asia
- Guidance Framework will also strengthen the capacity of governments in urban air quality management
- Participants (environment ministries) identified priority areas and needs of Asian countries to be considered in the development of the Guidance Framework

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Guidance Framework for implementation of the Long-Term Vision on Urban Air Quality in Asia



Objective

- to provide an authoritative Guidance Framework to implement the Long-Term Vision for Urban Air Quality in Asia by strengthening the capacity of governments in the management of air pollution

Target audience

- Primary target audience: policy and decision makers at the national and local levels responsible for improving urban AQ
- Also provides information and recommendations to other relevant stakeholders in AQM, including development organizations, the private sector, non-government organizations and other civil society groups, media, and the academe to support in improving AQ.

Reflecting Science into Policy through Guidance Framework Development and Review Process




- Engaging various experts and practitioners on air quality management in Asia and internationally
- Review process by experts and governments through the Governmental Meeting on Urban Air Quality in Asia and through proposed Joint Forum for Atmospheric Issues in Asia and the Pacific

Guidance Framework for Better Air Quality in Asia Overview of Authors	
1 AAQ standards and monitoring systems <ul style="list-style-type: none"> Lead Author: May Ajero Co-Authors: <ul style="list-style-type: none"> WHO WPRO Prashant Gargava, CPCB Jiro Sato, ACAP 	2 Emissions inventories, source apportionment and modeling <ul style="list-style-type: none"> Lead Author: He Kebin, Tsinghua University Co-Authors: <ul style="list-style-type: none"> Tomonori Takeuchi, ACAP Dollaris Suhadi, Swisscontact Indonesia Yuan Zibing, Hong Kong UST Prashant Gargava, CPCB Sarath Guttikunda, UrbanEmissions.info
3 Health and other impacts <ul style="list-style-type: none"> Lead Author: Dieter Schwela, SEI Co-authors: <ul style="list-style-type: none"> WHO WPRO Zhang Shiqiu, Peking University Wei Wan, Clean Air Asia 	4 Clean air plans, policies and measures <ul style="list-style-type: none"> Lead Author: Dollaris Suhadi, Swisscontact Indonesia Co-authors: <ul style="list-style-type: none"> Jean Rosete, DENR-EMB Prashant Gargava, CPCB Wei Wan, Clean Air Asia
5 Communicating AQ, health and co- benefits <ul style="list-style-type: none"> Lead Author: Gary Haq, SEI Co-Authors: <ul style="list-style-type: none"> May Ajero WHO WPRO Eric Zusman and Katsuya Kasai IGES 	6 Governance, including compliance and enforcement, budgeting and financing and institutional frameworks <ul style="list-style-type: none"> Lead Author: Jean Rosete, DENR-EMB Co-Authors: <ul style="list-style-type: none"> Kaye Patdu, Clean Air Asia Dollaris Suhadi, Swisscontact Indonesia Fu Lu, Clean Air Asia Eric Zusman and Katsuya Kasai IGES

Reflecting Science into Policy through Guidance Framework Content (I)	
<ul style="list-style-type: none"> Communicating the science into language which is understood by and applicable to policymakers/decision makers 	
Guidance Areas	Priority Areas of Concern
Guidance Area 1: Ambient AQ standards and monitoring systems	Setting and strengthening national AAQ standards and improving AQMt systems
Guidance Area 2: EI, source apportionment and AQ modeling	Developing and updating EI, source apportionment, AQ modeling
Guidance Area 3: Health and other impacts	Linking AQ levels and emissions data with health impacts and their social and economic cost (including the link with climate change)
Guidance Area 4: Communicating air quality, health and co-benefits	Developing, implementing and evaluating the effectiveness of clean air plans, policies and measures (including co-benefits with climate change)
Guidance Area 5: Clean air plans, policies and measures	Communicating AQ, health and co-benefits information to government, other organizations and the public
Guidance Area 6: Governance	Governance, including compliance and enforcement, financing and institutional frameworks

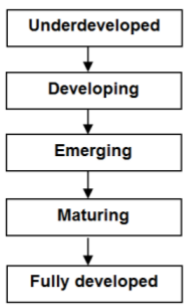
Reflecting Science into Policy through Guidance Framework

Content (2)



- Communicating the science into language which is understood by and applicable to policymakers/decision makers

Roadmap




Implementing the Roadmap

To go from underdeveloped to fully developed, steps undertaken may fall under the following general considerations:

- Management processes – pertains to management capacities, resources, and institutional arrangements (regulations, policies) that aid in decision-making
- Technical processes – involves scientific knowledge and technical skills, tools and equipment that are relevant to the implementation of identified measures
- General considerations – identify factors (e.g. resources needed, stakeholder involvement) that facilitate and may potentially hinder attainment of goals and/or effective implementation
- Other recommendations – guidance to address issues, either through management or technical processes, or both.

Each includes a **roadmap** which serves as a recommended guide to show progress in implementation of measures for each guidance area. Concrete **indicators** per stage are provided to gauge level of improvement. **Recommendations** on implementing roadmap are provided. **Case studies** illustrates specific actions and successful efforts taken by cities or countries to improve aspects of AQM relevant to each guidance area.

Guidance Framework for implementation of the Long-Term Vision on Urban Air Quality in Asia



Main Steps

- Nov 2014: Presentation of draft Guidance Framework (GF) at 5th Governmental Meeting on Urban Air Quality in Asia
- Dec 2014 – Mar 2015: Review by environment ministries and experts
- Mar – Aug 2015: GF revision and finalization
- Nov 2015: Presentation of GF at Joint Forum on Clean Air in Asia for endorsement
- Aug 2016: Updates on Guidance Framework implementation at 6th Governmental Meeting on Urban Air Quality

Guidance Framework implementation is complemented by

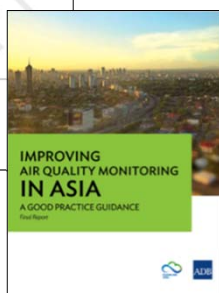
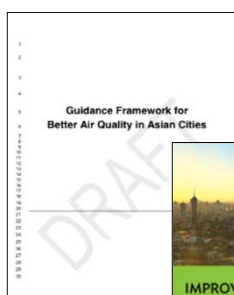
- Implementation support to develop, implement local action plans for improving AQ
- Facilitation for regional collaboration
- Capacity building and development
- Technical support for PM2.5 monitoring
- Communication and awareness raising

Key message



- It is important to have a science-based and participatory approach in air quality management, especially in identifying effective policy interventions
- Importance of having a **platform/avenue** for policy engagement
 - Communicate recent advances in addressing air pollution
 - Secure support for policy action
- **Experts group** to provide technical advice and guidance
- **Communicating the science** into language which is understood by and applicable to policymakers/decision makers

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Clean Air Asia Country Networks

China • India • Indonesia • Nepal • Pakistan • Philippines • Sri Lanka • Vietnam

Clean Air Asia Center Members



250 Clean Air Asia Partnership Members

- Cities
- Environment ministries and government agencies
- Development agencies and foundations
- Non-government organizations
- Academic and research institutions
- Private sector companies and associations

Donors in 2013

Asian Development Bank • AECOM • China Road Transportation Association (CRTA) • Civic Exchange • Climate and Clean Air Coalition (CCAC) • ClimateWorks Foundation • DHL/KEA/UPS • Energy Foundation • Fredskorpset Norway • Fu Tak lam Foundation • German International Cooperation (GIZ) • Institute for Global Environmental Strategies (IGES) • Institute for Transport Policy Studies • Institute for Transportation and Development Policy • MAHA • Pilipinas Shell • Rockefeller Brothers Fund • Shakti Foundation • Shell Foundation • Sida • UNCRD • United Nations Environment Program Partnership for Clean Fuels and Vehicles (UNEP PCFV) • UNEP DTIE • UN Habitat • USAID CEnergy • World Bank