



Asia Pacific Clean Air Partnership (APCAP)



Kaye Patdu, Associate Programme Officer, UNEP
IBAQ Business Roundtable
16 November 2020

AIR POLLUTION: A SERIOUS HEALTH CRISIS IN ASIA PACIFIC

GLOBAL ESTIMATES

- Around 91% of the world's population lives in places with unhealthy air.
- Outdoor air pollution causes 4.2 million premature deaths, and 103.1 million DALYs* every year.
- Exposure to smoke from dirty cookstoves and fuels causes 3.8 million deaths, and 85.6 million DALYs every year.**

ASIA PACIFIC ESTIMATES

- About 4 billion people are exposed to poor air quality
- Over 4 million premature deaths in Asia Pacific and affecting those most vulnerable

* DALYs are the sum of life years lost due to premature mortality and years lived with disability adjusted for severity.

** Cohen AJ, Brauer M, Burnett RT. Estimates and 25-year trends of the global burden of disease attributable to ambient air pollution: An analysis of data from the Global burden of Diseases Study 2015. *Lancet* 2017; 389:1907-18.

AIR POLLUTION HURTS THE **ECONOMY**

Reduces people's ability to work and contributes to labor income and welfare losses.



Damages infrastructure,
cultural and historical
monuments



Affects vital national
income e.g. from
tourism

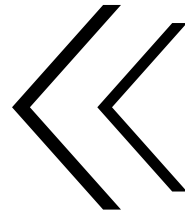


Reduces ability of
ecosystems to perform
functions such as
provision of food and
water security



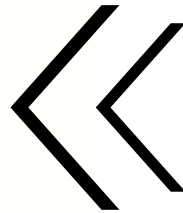
Costs for remediation,
restoration or
healthcare

ASIA PACIFIC CLEAN AIR PARTNERSHIP



CALL TO ACTION BY MEMBER STATES

For UN Environment to facilitate immediate and coordinated action to address air pollution and its impacts and prepare regional assessment reports on air quality issues.



URGENT ACTION NEEDED

Member states reiterated the urgent attention needed to address air pollution with a UNEA-3 Resolution: **Preventing and Reducing Air Pollution to Improve Air Quality Globally**



REPORT: **Air Pollution in Asia and the Pacific: Science-based Solutions**

The report identifies a solutions package with 25 cost-effective policy and technological measures and developed in collaboration between the United Nations Environment Programme, the Asia Pacific Clean Air Partnership, and the Climate and Clean Air Coalition.

AIR POLLUTION IN ASIA AND THE PACIFIC: SCIENCE-BASED SOLUTIONS



The 25 measures can be summarized in 3 clusters

01

ASIA-WIDE FULL APPLICATION OF CONVENTIONAL MEASURES

vehicles, power plants, and large- and small-scale industry

02

NEXT STAGE AIR QUALITY MEASURES THAT ARE NOT YET MAJOR COMPONENTS OF CLEAN AIR POLICIES

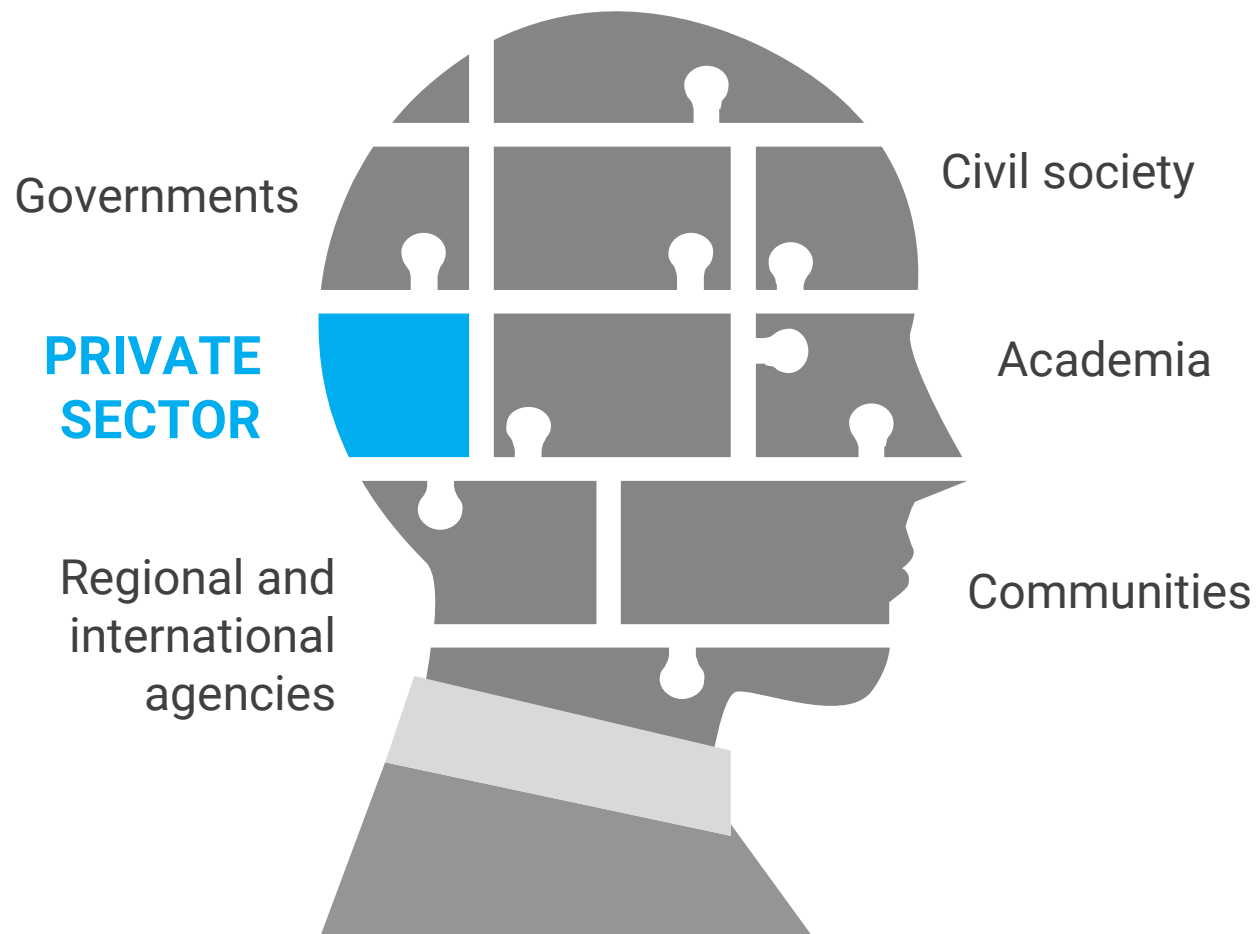
burning of agricultural and municipal solid waste, proper management of livestock manure

03

MEASURES WHICH CONTRIBUTE TO DEVELOPMENT PRIORITIES WITH AIR QUALITY BENEFITS

promoting use of electric vehicles, using renewable energy for electricity generation

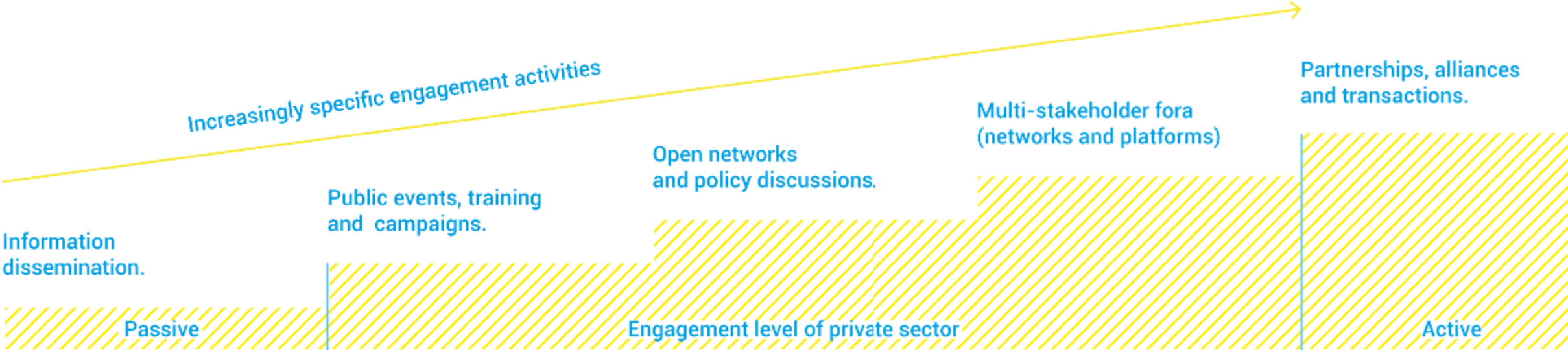
PARTNERING FOR SOLUTIONS



UNEP's Strategy for Private Sector Engagement Strategy

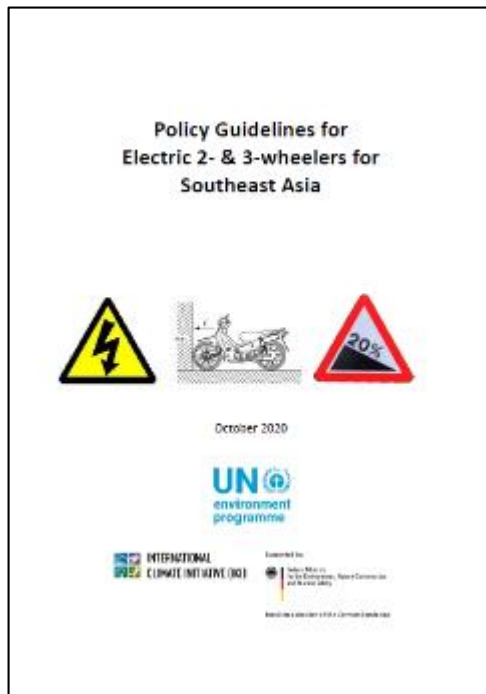
- **Pillar 1:** Impacts on SDGs and environmental goals
- **Pillar 2:** Transformative changes of industries and sectors
- **Pillar 3:** Innovation leading to solutions on sustainability
- **Pillar 4:** resources and income to scale up and accelerate momentum towards a sustainable future

STRATEGY FOR PRIVATE SECTOR ENGAGEMENT: **WAYS TO PARTNER**



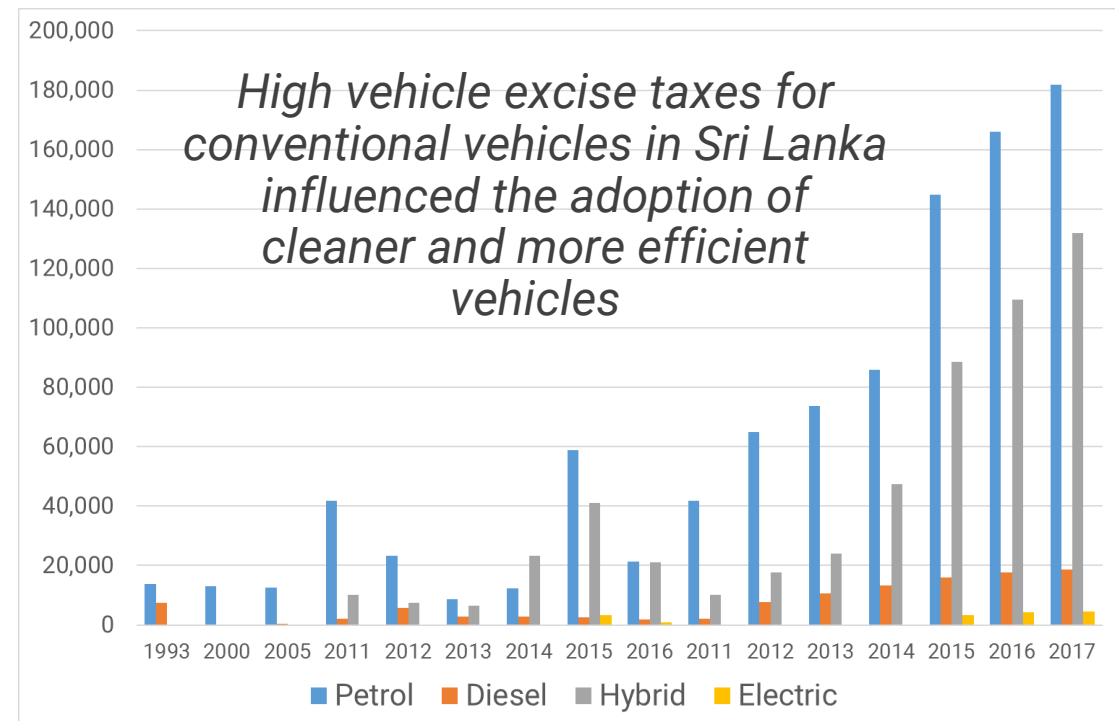
ELECTRIC MOBILITY: ADDRESSING **POLICY AND OTHER BARRIERS**

Integrated **EV specific policy measures** with Global Fuel Economy Initiative national activities supporting fuel economy policy development in 65+ countries



Dedicated EV policies:

- Tax breaks on registration, import & circulation tax
- Inclusion of EVs in regulatory measures
- Information campaigns
- Dedicated soft measures: parking policies,.



ELECTRIC MOBILITY: DEMONSTRATION PROJECTS (UNEP/BMU-IKI)

PHILIPPINES

- Supporting urban electric freight launched in Nov 2019 with PhilPost and Pasig City (with TAILG)
- Supporting more demonstration projects and setting up charging network in Pasig City with EC Solutions plus

VIETNAM

- Supporting standards and regulations and demonstration projects on electric 2-wheelers for personal use and for urban freight (with Honda)

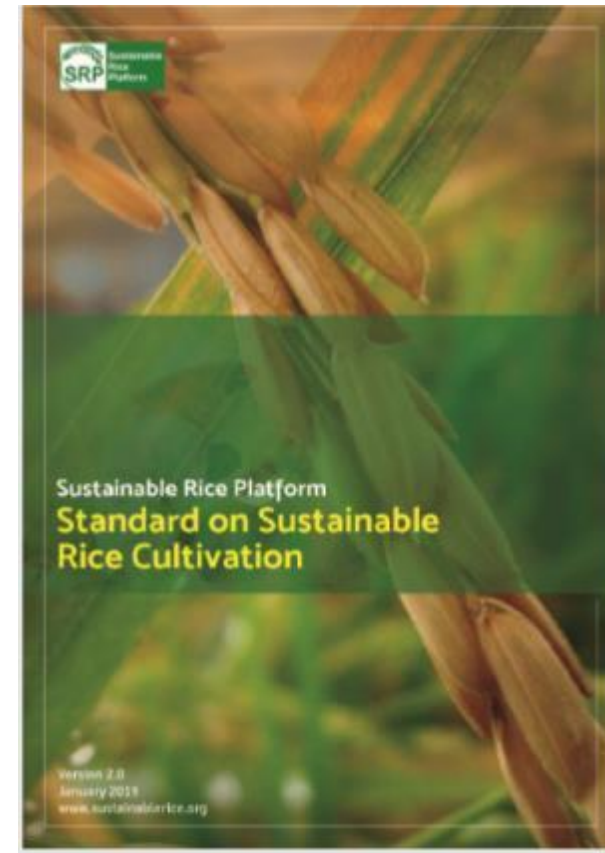
THAILAND

- Supporting development of standards and regulations on electric 2&3 wheelers
- Demonstration project to support electric motorcycle taxi/ electric motorcycle deliveries



PUBLIC PRIVATE PARTNERSHIP: SUSTAINABLE RICE PLATFORM

- World's first voluntary standard for rice sustainability
- Co-convened by International Rice Research Institute and UNEP.
- SRP's rice cultivation standard recommends 41 guidelines in rice cultivation covering farm management, water use, pest management, nutrient management, harvest and post-harvest practices, even labor practices.
- With nearly 100 partner institutions, SRP reached almost 700,000 farmers and was implemented in more than 319,000 hectares of riceland.



10% increase
in farmers' income



20% savings
in water use



50% reduction
in GHG emissions

PUBLIC PRIVATE PARTNERSHIP: AIR QUALITY MONITORING

- **Air quality monitoring:**
25 of 41 countries have official air quality monitoring stations, monitoring criteria pollutants.
- **Global Environment Monitoring System for Air (GEMS Air)** supports countries to provide quality assured data to keep the state of the world's air quality under continuous review, develops capacity of member states, provides information and services across the science-policy-public interface.

Low-cost Sensors: UNEP is working with WMO and other partners to develop guidelines on low-cost sensors

At the present time, partnerships includes



WORLD
METEOROLOGICAL
ORGANIZATION



World Health
Organization

UN HABITAT
FOR A BETTER URBAN FUTURE

<https://www.unenvironment.org/explore-topics/air/what-we-do/monitoring-air-quality/gems-air-strategic-plan>



ASIA PACIFIC CLEAN AIR PARTNERSHIP

OUTPUTS

1

Deliver **technical support** to 5 countries to develop an action plan to 25 clean air measures

2

Provide **regional platform** for knowledge sharing, and support implementation of 25 clean air measures through **outreach and partnerships**

3

Science-policy interface and science-based policies on air quality

MILESTONES (2020/2021)

1. Cambodia: National clean air plan finalized
2. Through leveraged funding, policy and technical support to APCAP countries: Vietnam, Myanmar, Thailand

1. Launch Clean Air Solutions Tracker
2. Feature 25 clean air measures in UNEP's reporting for UNEA air quality resolution
3. Successful delivery of Third APCAP Joint Forum
4. Outreach on 25 clean air measures – Clean Air Solutions Hub and Webinar Series
5. Engage new partners

1. Coordinate Science Panel Work Plan 2020-2021
2. Develop two issue briefs to contribute to implementation of 25 clean air solutions

POTENTIAL WAYS FOR ENGAGEMENT

INFORMATION SHARING THROUGH EVENTS, TRAINING AND CAMPAIGNS

- Through clean air solutions webinar series organized at least once each quarter
- Responding to technical advice by country partners (example air quality monitoring)

MULTI-STAKEHOLDER FORA (NETWORKS AND PLATFORMS)

- Through the Asia Pacific Clean Air Partnership Joint Forum – sharing best practices on solutions for clean air (proposed week of 7th September 2021)

DEMONSTRATION PROJECTS

- Demonstrate new technology with interested partners

Clean Air Solutions Webinar Series

- A Calculated Risk: Health and Economic Cost of Air Pollution in Thailand | 23 Sep 2019
- Asia Charged Up: Measuring the Benefits of Shifting to Electric Mobility | 3 Dec 2019
- Asia on Fire: Status, Impacts, and Solutions | 30 Mar 2020
- COVID and Air Quality: How to sustain air quality gains in Asia Pacific? | 7 Sep 2020
- Electric 2&3 wheelers for climate and clean air benefits in Asia Pacific | 15 Sep 2020
- Air quality data to drive stronger clean air action | 1 Oct 2020

THANK YOU!