Accelerating Fuel Economy Policies in the ASEAN Region

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Urban Mobility India, 2015









**Clean Air Asia** is an international NGO 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 Programs





Air Quality and Low Emissions Climate Change Urban Development



Clean Fuels and Vehicles



Green Freight and Logistics

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
- Established in 2001 as the premier air quality network for Asia by ADB, World Bank, USAID
- Since 2007, Clean Air Asia is a UN recognized partnership of more than 250 organizations in Asia and worldwide and 8 country networks

## About Clean Air Asia





Mission: facilitate <u>large reductions in CO<sub>2</sub> emissions</u> and oil use through improvements in <u>automotive fuel</u> <u>economy</u> as per IPCC and G8 recommendations.



Key Drivers : Growing Population



UNEP

- Southeast Asia will be home to 785 million people in 2050, 8% of the world's population
- 4.9 million people are to be added each year







- The weighted average GDP per capita will increase almost 10-fold from 2005-2050
- 2005 = 1,469 USD , 2050 = 14,132 USD
- 3.91% annual growth rate (long term average)



Source: ITPS, CAA, 2014

# Projections : Growing Vehicle Fleets





- **515 million** vehicles in 2050
- 389 4-wheeled vehicles/1000 people
- 388 2 and 3-wheeled vehicles/1000 people
- 2.5 million cars will be added per year
- 5.3 million motorcycles will be added per year

Source: ITPS, CAA, 2014

In 2014, 3.1 passenger and commercial vehicles sold in ASEAN (excluding Cambodia, Lao, Myanmar), 11.2 million motorcycles (INO, MYS, PHL, THA) . Source – Asean Automotive Federation



# Road Transport Related CO2 Emissions

- Transport CO2
   emissions will increase
   by 4.6 -fold from 2005 2050
- 208 million tons CO2
   2005 → 956 million
   tons CO2 in 2050
- CO2 emissions per capita will increase to 1.32 tons/year from 0.37 in 2005.









CLEAN AIR ASIA



- One of the key objectives of the "ASEAN Economic Community" is to create a "single market and production base" within the region
- The national markets in ASEAN present varying stages of industry development
- Regional fuel economy discussions can lead towards synergies
  - Increasing regional market integration and removal of trade barriers.
  - Intensifying energy productivity and reducing energy demand.
  - Improving energy security, while reducing greenhouse gases emissions.



## Potential Benefits: Fuel Economy Policies



Impact potential 2012 – 2035 compared to BAU

## Indonesia, Thailand, Philippines, Vietnam



16%

446 b liters diesel 134 b liters gasoline

Source: GFEI and Clean Air Asia. 2010.. Improving Vehicle Fuel Economy in the ASEAN Region

26-27%

# National initiatives in the ASEAN Region







"Lack of a Harmonized Approach"



- Lack of standards and mutual recognition → technical barriers to trade (internally and also with global markets)
- The national markets in ASEAN present varying stages of industry development → need to be taken into account
- An ASEAN roadmap on fuel economy is needed in order to provide guidance for the policy options towards fuel economy improvements in the road transport sector. National governments in ASEAN can also learn from the experiences of other nations in Asia such as India.



BAQ Experts Group Meeting on Fuel Economy



*Better Air Quality Workshop* @ *Colombo, 2014* Experts Group Meeting on Fuel Economy in ASEAN

- A key outcome of the meeting is the formulation of <u>clear guidance</u> for governments to champion the agenda of fuel economy through formal regional channels, This becomes especially relevant as the post-2015 ASEAN Strategic Action Plan is being finalized for future adoption by ASEAN member countries.
- Another key outcome is to pursue a common <u>labeling policy</u> for passenger cars in member countries of the ASEAN region, which was proposed as a viable next step towards achieving a common set of guidelines for fuel economy measures in the region. This will also provide the necessary public engagement which can lead to a better understanding of the need to institute fuel economy policies and measures.





- Fuel economy is currently included in the discussions for the post-2015 ASEAN Strategic Transport Plan as a thematic area under sustainable transport
  - Establishment of an ASEAN expert group on fuel economy
  - Fuel economy roadmap formulation
  - Support for national efforts to improve vehicle fuel economy
- A proposal was also discussed under the ASEAN Center for Energy/ Energy Efficiency and Conservation Sub-sector Network for formulating a Roadmap on Fuel Economy in the Region





- ASEAN strongly positioned to become a major vehicle market in the future
- Championing the issue within the ASEAN structure is key
- Current situation is characterized by a diverse set of strategies relating to fuel economy improvements
- Intensified externalities and costs in the horizon
- Need to engage at a regional level a common regional roadmap for guiding national governments towards divergence towards a regional approach; knowledge transfer and experience sharing is essential



## For more information: www.cleanairasia.org



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