

TRANSPORT SECTOR AND THE ENVIRONMENT

1. Background

2. UNEP activities related to the transport sector

3. The way forward







2030

2040

2050

2020

- Global light duty vehicle fleet set to triple by 2050
- Road transport will see higher growth than shipping and aviation sectors
- Almost 2/3 of all vehicle fleet growth will be in non-OECD countries: few have fuel efficiency strategies

Source: WBCSD 2005/ IEA 2008

2010

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2000

1. Background

140000 120000 (numbers of vehicles 000) 100000 **OECD** nations have too many cars. The growth is below 5 % per year 80000 **Developing countries** 60000 are adding vehicles as high as 10-30 % per year 40000 20000 0 France Calada 13031 11311 AUSTAIR RUSSIR Chillo India ઝ toles t. Spain

In 2004, the total number of registered vehicles in Asia was about 300 million, but by 2035 there will be over 1.2 billion vehicles on the road.

Vehicle growth in developing countries

1. Background

Energy Consumption by Sector

Transport sector is the fastest growing energy-use sector



Source: EIA Annual Energy Outlook, 2008

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Outlook for Transport Emissions



CO₂ Emissions in Asia – Road Transport



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Source: 2008. ADB, CAI-Asia, and Segment Y Ltd

Asia: Sulphur Levels in Fuels



Environmental impacts of transport sector

" An estimated 487,000 premature deaths in Asia occur each year due to outdoor air pollution"- WHO estimate





Environmental impacts of transport sector

Trends of Air Pollutants in Asian Cities, 1993-2007 (in µg/m³)



2. UNEP Activities in the transport sector

UNEP activities are focused on the following areas:

- Improvement of urban planning to promote intermobility
- Promote alternative fuels
- Promote Energy efficiency
- Promote partnership and networking

Examples:

- Global Fuel Economy Initiative (GFEI)
- Partnership for Clean Fuels and Vehicles (PCFV)
- Partnership with Bangkok Metropolitan Administration



The Global Fuel Economy Initiative (GFEI)

The Global Fuel Economy Initiative (GFEI): Launched on March 4 2009 at the Geneva Motor Show

- 50% improvement in fuel economy across the global light duty vehicle fleet by 2050, hence '50x50 campaign'
- Current: Global fleet average 8L/100km
- Goal: Global fleet average 4L/100km (25km/L)









GLOBAL FUEL ECONOMY INITIATIVE

www.50by50campaign.org



Four Key Elements of the GFEI:





Partnership for Clean Fuels and Vehicles



Issues for Cleaner Fuels and Vehicles in Asia

- Urban Air Quality continues to be an important problem and mobile sources are an important part of the problem;
- Asian countries do not all have medium term fuel quality strategies;
- Capacity to regulate fuels is under-developed in several countries, especially those which lack medium term strategies;



Link the expertise of oil industry to produce high quality transportation fuel to complement ongoing efforts by different stakeholders to improve air quality management in Asia



Partnership with Bangkok Metropolitan Administration (BMA)

In May, UNEP established partnership with BMA on Climate. Under this partnership, clean vehicles will be promoted in Thailand through a public-private partnership.

This will be done through:

- Assessments,
- Demonstration projects and policy recommendations.

Currently, assessments are being carried out.



3. The way forward

UNEP could partner MEET in the following areas:

- 1. Improvement of Fuel Efficiency in the transport sector.
- 2. Capacity building for implementation of fuel efficient technologies in the developing countries
- 3. Assessment of the impacts on transport sector on the environment
- 4. Promote international cooperation to facilitate information sharing and technology transfer