

The Challenge of Air Quality Management In India

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**CLEAN AIR
ASIA**



Clean Air Asia Programs

**AIR QUALITY
AND CLIMATE
CHANGE**



**LOW
EMISSIONS
URBAN
DEVELOPMENT**

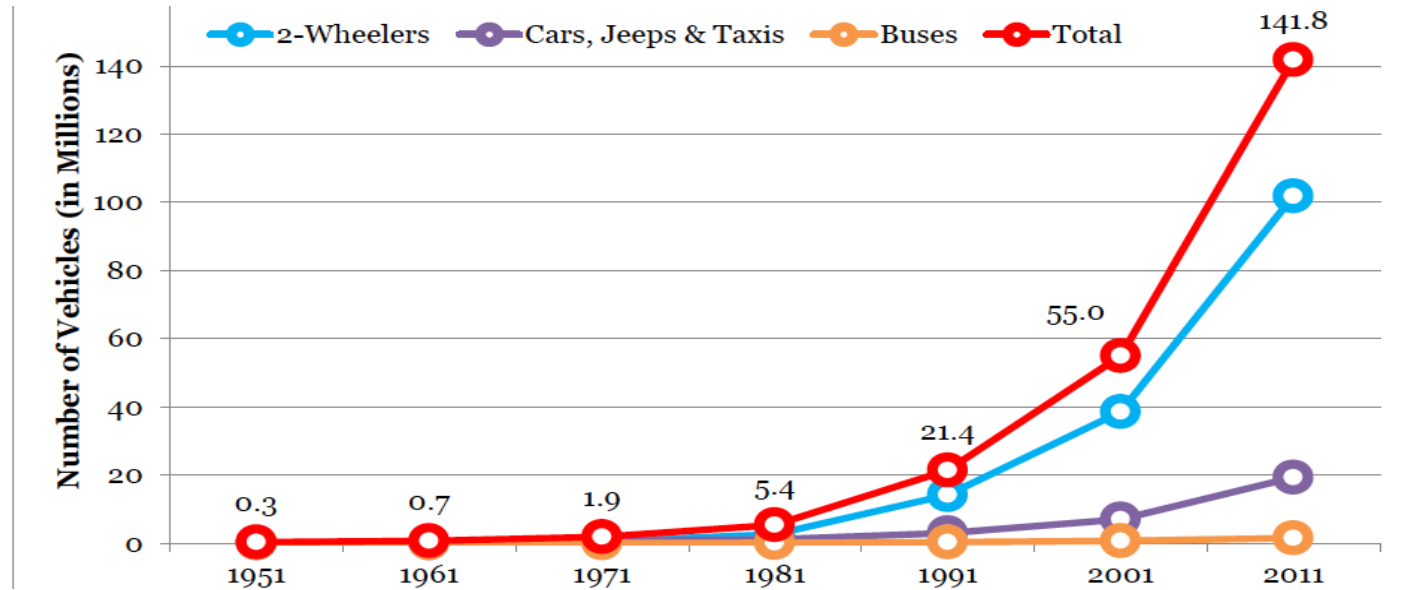


**CLEAN FUELS
AND VEHICLES**



**GREEN FREIGHT
AND LOGISTICS**

Urban India's Appetite for Cars



The World's Cheapest Car – Nano from Tata Motors



According to research by CRISIL in 2015, there were 4.2 million buyers for used cars



There are about 6.45 million vehicles in Delhi alone, a city of 18 million people (Delhi Government - Transport Department)

Rising Numbers

- In 1951, there were five Indian cities with a population greater than one million and 42 cities with a population greater than 0.1 million, much of India effectively lived in villages.
- In 2011, there were 468 cities with population above 0.1 million and 53 cities with population greater than 1 million

Source: IIHS RF Paper on Urban Transport



Government Efforts

1. Adopted best international norms for vehicular emissions- compressed natural gas as a clean fuel for its public transport fleet.
2. Odd and Even - where even/odd numbered cars run on even/odd numbered days
3. Efficient examples of Public Transport Systems (Delhi metro, BRTS-Ahmedabad)



Cultural/ Social Practices



- Removing traditional heating/ cooking methods
- Burning of stubble in agricultural states/ waste in other areas
- Large scale bursting of firecrackers in festivals

Energy Needs

- 1/5th of Indian population do not have access to electricity and 2/3rd do not have access to clean cooking fuel
- India is rapidly urbanizing. Government of India has committed itself to expand manufacturing growth through initiatives such as the “Make in India” campaign, which will require massive growth in energy.
- Current government’s commitment to Renewables is reflected by setting up a new Ministry for New and Renewable resources,

• Source: World Energy Outlook, 2015





- India announced its own Air Quality Index (AQI) as a first step towards ensuring cleaner air in 2015.
- Non-availability of open source data

Not *Just* Air Pollution



- We need to discuss air pollution in relation to lifestyle change, technology change, climate change and behavioral change!
- Talking Air Quality
 - Who looks at the Monitors?
 - Are we aware of what we are doing to our health?
 - Monitors, Purifiers and Masks? Do people realize the need?
 - Individual Action



For more information: www.cleanairasia.org



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TOYOTA

261 Clean Air Asia Partnership Members

- Cities
- Environment ministries and government agencies
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Clean Air Asia Country Networks

Indonesia . Malaysia . Nepal . Pakistan
Philippines . Sri Lanka . Vietnam