Efforts towards Cleaner Buses in Africa

Jane Akumu, UN Environment
Efficient mass transport lacking
Introduction of motorcycles
Inadequate infrastructure
• Small particulates are responsible for an estimated 3.7 million premature deaths annually from outdoor air pollution.

• Heavy-duty trucks and buses currently account 80% + of PM2.5 emissions from on-road vehicles (ICCT 2013)

• Exposure highest 300 - 500 meters from roadway (HEI 2010)
Most African Cities planning BRTs

Nairobi: Annual travel time saved with BRT

- Time saved
- Value of time saved

Annual time saved (hours)

Years

Annual discounted value of time saved (2011 USD)
Diesel Sulphur 2005 and 2017

- 13 countries at 50 ppm & below
- More countries have lowered sulphur levels
- More cities at 50 ppm
Progress in Lowering Sulphur in Diesel in Africa

2002

2016

Planned 2017

* Information in parts per million (ppm)
Technology options: Overview

- Diesel
- LPG and CNG
- Hybrid
- Battery
- Trolley
- Capacitor
- Fuel cell
Good examples in the region

South Africa

Dar es Salaam

Lagos

Ethiopia
Cleaner fuels already available (50 ppm diesel fuels & CNG)
Commitment by cities to procure cleaner, soot-free buses

Next steps
Share the Road (StR)

Global Fuel Economy Initiative (GFEI)

Electric Mobility

Partnership for Clean Fuels and Vehicles (PCFV)

Climate and Clean Air Coalition (CCAC)
Standing behind this bus could be more dangerous than standing in front of it.

Diesel fumes can kill. Demand clean-fuel buses. Call 1-800-NICE-RIDE.

Jane Akumu

www.unep.org/transport

http://www.ccacoalition.org/