Promoting Sustainable and Cleaner Mobility

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New Vehicle Registrations 1968-2017

Start of exponential growth, esp. motor cycles and station wagons

Source: KNBS Annual Surveys 1970,..,2018
Newly imported vehicles in Uganda

Figure 2: The Age Trend of Imported Vehicles

Nairobi

UN environment
Motorcycle challenge

New registrations of motorcycles vis-à-vis vehicles in Kenya
Inadequate Infrastructure

- Lack of adequate public transport
- Inadequate walking and cycling facilities
Solutions exist in the sub-region


Renewable Fuels (2010 (5%), 2011 (2%))

Lead in Gasoline (1972, 1990)

Benzene in Gasoline (1999)


On-Board Diagnostic Systems

Light duty vehicles GHGs 2011-16

Off-road diesel engines Air Pollutants Tier 2b 2006 and beyond

Off-road diesel engines Air Pollutants Tier 4

Heavy-Duty Vehicles GHGs 2016+ CGL

Light, medium & heavy-duty vehicles + sulfur in gas Air Pollutants Tier 3 2017 and beyond CGL

Light-Duty Vehicles GHGs 2017 and beyond CGL

Large off-road engines Air Pollutants CGL

Small off-road engines Air Pollutants Phase II 2005 and beyond

Motorcycles and light, medium and heavy-duty vehicles Air Pollutants Tier 2 2004 and beyond

Marine SI engines, snowmobiles, ATV, dirt bikes Air Pollutants

Ships SulfurDiesel Emission Control area Tier 3

Heavy-Duty Vehicles

**This regulatory agenda does not include Fuels, or stationary reciprocating engines, which are addressed under different programs.**
Why Regulate Fuels and Transportation?

Canada’s 2010 NOx Emissions Profile

- Transportation: 51%
- Oil & Gas: 22%
- Electricity: 9%
- Other: 17%


SEI/ICCT Study links these excess NOx emissions to 38,000 premature deaths worldwide in 2015—mostly in the European Union, China, and India.

More stringent tailpipe emission standards could prevent 174,000 premature deaths annually by 2040.
Regulations are Delivering Improved Air Quality for Canadians

Nitrogen Oxides (NOx) and Volatile Organic Compounds (VOC) emissions from on- and off-road vehicles and engines

Total Particulate Matter (TPM) and Sulphur Oxides (SOx) emissions from on- and off-road vehicles and engines
Intergrated approach to Low Emission Transport

- Ultra low sulphur fuels
- Vehicle emission standards
- Soot free public transport
- Fuel economy vehicles
- Electric Mobility
- NMT policies and infrastructure
UNEP Mobility Programs

- **Share the Road (StR):** Promoting walking and cycling infrastructure

- **Global Fuel Economy Initiative (GFEI):** Supporting fuel efficient vehicle policies

- **Electric Mobility:** Leapfrogging to electric motorcycles, cars and buses

- **Partnership for Clean Fuels and Vehicles (PCFV):** Reducing vehicle emissions through cleaner fuels and vehicles

- **Climate and Clean Air Coalition (CCAC):** Reducing short-lived climate pollutants in transport
Thank you

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