Air Quality and Mobility Unit
UN Environment
Cleaner and More Efficient
Fuels and Vehicles
*Jamaica, Kingston*
Purpose is to underline the sense of urgency to act and to bring discussion on measures to combat *air pollution and climate change* from the transport sector.

To support *Jamaica* to move forward on implementing cleaner and more efficient fuels and vehicles regulations and to provide an opportunity for dialogue and decision-making on fuel quality (sulphur), vehicle emissions, cleaner vehicle technology and auto fuel economy.
Almost all vehicle fleet growth will take place in developing countries.

Vehicle fleet to triple by 2050 (from ~1 million to ~2.5+ billion)

90%+ of growth in non-OECD countries

Very few non-OECD countries have policies

Countries have to act now, while opportunities still exist, to leapfrog to cleaner, more energy-efficient transport and invest in non-motorized infrastructure and public transport.
Transport CO2 emissions will jump from 1/4 today to 1/3 by 2050 of energy related emissions – Increasing more rapidly than any other sector

Diesel engines are a major contributor to black carbon - a potent short lived climate pollutant

Air pollution causes more than 7 million deaths around the world each year (1 in 9 deaths worldwide)

- 80% of people in cities breath air outside WHO Guidelines
- 90% of deaths from outdoor air pollution occur in low – and middle- income countries
Support developing countries to reduce air pollution caused by vehicle emissions through the promotion of **unleaded** and **low sulfur fuels** and the adoption of **vehicle emissions standards** and **cleaner vehicle technologies**.
Diesel Sulphur Standards Worldwide
2005 - 2018

*Information is in parts per million (ppm)
Sulphur levels are maximum allowable as of July 2018. For additional details and comments per country, visit www.unep.org/psi.
Diesel Sulphur Standards - Caribbean
2014 → 2018
<table>
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<tr>
<th>Country</th>
<th>Diesel Sulphur</th>
<th>Petrol Sulphur</th>
<th>Vehicle Emission Standards</th>
<th>Refine</th>
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A global transition to Euro 6/IV vehicles & 10ppm fuels by 2030 would...

Reduce global vehicle PM emissions by 90% and total adverse health outcomes by 75% (from 2000 levels)

Despite a projected 150% increase in vehicle fleet growth

Combining low-sulfur fuels with the latest vehicle technology means:

- 500,000 fewer deaths by 2050
- 85% reduction in annual black carbon emissions from on-road vehicles in developing countries by 2050
- $18 trillion gains in health by 2050
- Ask your government to adopt the latest fuel vehicles standards
- Choose cleaner fuel at the pump
- Choose efficient, low emission cars, trucks, buses
Global Fuel Economy Initiative
Improve the energy efficiency of vehicles

• Key to address climate change
• Allows improved air quality by reducing conventional emissions and black carbon
• Leads to foreign exchange savings and reduced oil import bills
• Reduce fuel costs for consumers
• One of the best ways to reduce vulnerability to high oil prices and improve energy security
GFEI: Policy Progress 65 + countries
16 national projects in Latin America and the Caribbean

Argentina: Base Line, Labelling
Uruguay: Base Line
Belize, Costa Rica, El Salvador, Guatemala, Honduras, Panama: Base Lines
Chile: Base Line, Mandatory Labelling, CO2 Tax
Peru: Base Line
Dominican Republic, Jamaica: Base Lines
Colombia: Base Line
Brazil: Labelling
Paraguay: Base Line
Argentina: Base Line, Labelling
Uruguay: Base Line
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## Key
- **New GFEI country**
- **Policy proposals developed**
- **GFEI Baseline completed**
- **Policy Implemented**

### G20 (Transport group Participants: Australia, Brazil, Canada, China, the European Union, Germany, India, Italy, Japan, Mexico, Russia, United Kingdom and the United States.)

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GFEI in the Caribbean

2014 Caribbean sub regional event

**National projects:** Jamaica, Belize, Dominican Republic

Baselines, policy proposals, awareness raining, capacity building
UNEP’s Electric mobility program supports the shift from fossil fueled to electric vehicles

~ A global program with over 50 countries
~ Focus on transitional & developing countries
~ Together with regional partners, UN Environment supports the development of policy packages, the set-up of pilot projects as well as strategies to finance a shift towards electric mobility
~ The program focuses on regional replication and outreach
~ Establishing an industry partnership

Electric Light- Duty Vehicles
Electric Two & Three Wheelers
Electric Buses

UN Environment’s eMob Program focuses on the most promising electric mobility applications
GEF 7 Electric Mobility Programme

- First ever global Electric Mobility Programme
- Focused on the introduction of electric mobility in low and middle income countries
- Policy development, EV demonstration, business models and finance schemes as part of national electric mobility projects
- 20 to 25 countries with USD 40 to 50 million from GEF STAR and USD 300 million co-finance
- Lays the ground for large scale market introduction of electric mobility
- Includes Antigua & Barbuda and Chile from LAC

National Projects welcome to join by end January 2019
THANK YOU

Ariadne Baskin, ariadne.baskin@un.org
Air Quality and Mobility Unit
Programs and Initiatives

Partnership for Clean Fuels and Vehicles (PCFV)
https://www.unenvironment.org/explore-topics/transport/what-we-do/partnership-clean-fuels-and-vehicles

Global Fuel Economy Initiative (GFEI)
https://www.globalfueleconomy.org/

Climate and Clean Air Coalition (Heavy Duty Vehicles) (CCAC)

Electric Mobility Program (Emob)
https://www.unenvironment.org/explore-topics/transport/what-we-do/electric-mobility

Non Motorized Transport – Share the Road (StR)
https://www.unenvironment.org/explore-topics/transport/what-we-do/share-road

Air Quality
https://www.unenvironment.org/explore-topics/air/about-air