



# Jamaica Automobile Association

## Fleets Managed

- JAA Response Units
- JNBS Fleet
- NEM Insurance Company

### JNBS Fleet Composition (Avg. 3 Years Old)

- 110 Passenger Cars / Small SUV
- 14 Light Duty vehicles
- 3 2 Stroke Motorcycles.

### Usage

- Business Class
- Personal
- Administrative

# Impacts

## Impacts - Estimating your emissions

→ Your annual emissions are estimated below

The yearly emissions of JNBS Fleet			Air Pollution (in tonnes/yr)					Climate Change (in tonnes/yr)
	Numbers	km/year	CO	VOC	NOx	SOx	PM10	CO2
Petrol - without catalyst	0	0	0.0	0.0	0.0	0.0	0.0	0
Petrol - with 3-way catalyst	110	2,426,376	43.7	1.9	2.8	0.1	0.0	485
Diesel - with PM filter	1	7,000	0.0	0.0	0.0	0.0	0.0	1
Light duty - pre Euro	14	326,572	1.2	0.6	0.5	0.1	0.1	102
Motorcycles with 4-stroke engines	0	0	0.0	0.0	0.0	0.0	0.0	0
Motorcycles with 2-stroke engines	3	42,000	1.2	0.6	0.0	0.0	0.0	4
<b>Total</b>	<b>128</b>	<b>2,801,948</b>	<b>46.0</b>	<b>3.1</b>	<b>3.4</b>	<b>0.2</b>	<b>0.1</b>	<b>582</b>

- The Passenger vehicles are contributing most to my emissions. They are petrol units with catalyst.
- PM<sub>10</sub> - Low
- Potential Premature death -- Very low

# Reduction Targets

- Air pollutant reduction -----20%
- CO<sub>2</sub> emissions reduction-----10%
- Fuel savings-----10%

This reduction targets will be adopted by the company as these are the “**Low Hanging Fruits**”

# Possible Actions

- Driver Attitude modification
- Eco Driving
- Better maintenance policy
- Using cleaner fuels –Biodiesel, Bio Ethanol.
- Changing Diesel vehicles

## Actions not included

Changing all older and high mileage vehicles to new vehicles.

# Possible Strategies

- Driver education programs
- Driver Incentive Programs
- Penalties for breeches
- Using GPS to monitor driving habits

## Challenges

- The major challenge will lack of funding for purchase of cleaner fuels.
  - Driver resistance