

## And Next Time You're In The Market For A New Vehicle...

Try to purchase the most fuel-efficient car that meets your needs. By doing this you will reduce the environmental impact of your vehicle and save on your annual fuel bill.

Choose a vehicle that fits your everyday needs in terms of size and power. Remember, when you buy something bigger for the extra size or that extra power 'just in case,' you wind up paying for it every time you fill.

### MAINTENANCE TIPS

(cars/two-wheelers / bus and truck fleet owners):



Keep up with your vehicle's maintenance schedule.



Use recommended grade of lubricating oil.



Perform a monthly maintenance check that includes:

- (a) Checking your tyre pressure
- (b) Checking for fluid levels and for leaks
- (c) Checking under your hood for cracked or split spark plug wires, radiator hoses, or loose clamps and corrosion around the battery terminal
- (d) Testing brakes and keeping wheels aligned



Shri. Narendra Modi  
Hon'ble Prime Minister, India

# Think sustainable, Act responsible.



Ministry of Petroleum & Natural Gas



Petroleum Conservation Research Association

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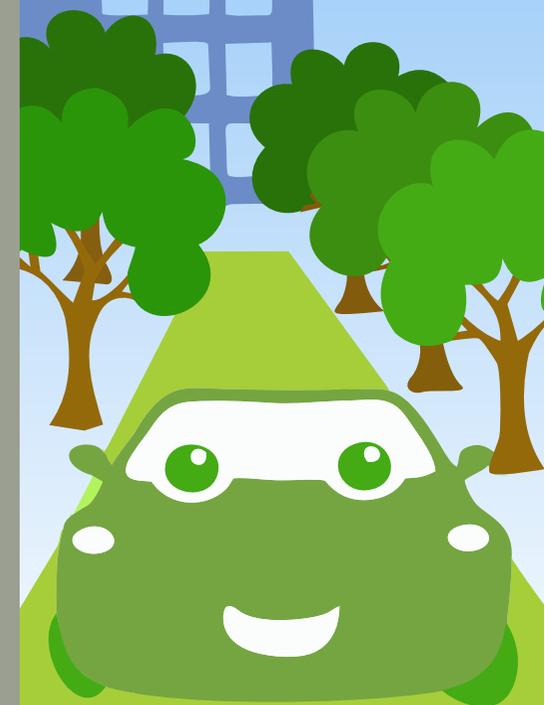
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# PCRA

Petroleum Conservation Research Association  
Ministry of Petroleum & Natural Gas, Govt. of India

## Climate Change And On Road Transportation



**Ladies and Gentlemen,  
Namaste!**

### CLIMATE CHANGE AND ON ROAD TRANSPORTATION:

- **Domestic Automobile Sales** have registered a steady growth each year over the last six years (the number of registered vehicles on Indian roads has increased from 2.14 cr. in 1991 to 18.24 cr. in 2013). This trend clearly indicates a complimentary increase in the consumption of oil and gas. The socio-economic implication of using fuel in the transport sector becomes extremely significant for India.
- **Socially significant** because of its negative impact on the environment, due to burning more fossil fuel. Studies have proved it beyond doubt that climate change is unequivocal, and human activities, particularly emissions of carbon dioxide, are very likely to be the dominant cause.
- **Climatic Changes** are observed in all geographical regions:
  - the atmosphere and oceans are warming,
  - the extent and volume of snow and ice are diminishing,
  - sea levels are rising and weather patterns are changing.
- **Economically significant** because of the massive import bill the country has to bear on crude oil and other petroleum products.



Category	2011-12	2012-13	2013-14	2014-15	2015-16
Passenger Vehicles	26.3	26.7	25	26	27.9
Commercial Vehicles	8	7.9	6.3	6.1	6.9
Three Wheelers	5.1	5.3	4.8	5.3	5.3
Two Wheelers	134	137	148	159	165
Grand Total	174	178	184	197	205

Category	%
Passenger Vehicles	14
Commercial Vehicles	3
Three Wheelers	3
Two Wheelers	80
Grand Total	100

Source - SIAM | \*All figures in lacs

### Impact Of Past Emissions

- Computer models of the climate changes used by the IPCC (**UN Intergovernmental Panel on Climate Change**) indicate that if the current greenhouse gas emission scenarios continue over the 21st century, impacts by the end of this century are projected to include a global average temperature rise from 2.6–4.8 degrees Celsius (°C) higher than present, and sea levels 0.45–0.82 metres higher than present.
- Roads, rail and airports near the coast will become more vulnerable to flooding and erosion as a result of sea-level rise and extreme weather events, as will ports.
- Ongoing sea level rises have already submerged several low-lying islands in the Sundarbans in West Bengal, displacing thousands of people.
- Around seven million people are projected to be displaced due to, among other factors, submersion of parts of Mumbai and Chennai, if global temperatures were to rise by a mere 2 °C.
- If severe climate changes occur, Bangladesh will lose land along the coast line.

## PCRA INITIATIVES TOWARDS CLEANER FUELS IN TRANSPORT SECTOR

**NOW, IT IS YOUR TURN TO BE AN ECO-DRIVER  
(CAR AND TWO WHEELER DRIVERS)**



Turn off the engine at long red light.



Drive Safely At Moderate Speeds And Avoid Aggressive Starts And Stops.



Use 'car-pool'



Lighten your load when possible and avoid lugging around extra weight.



Reduce your use of power-consuming features (i.e., air conditioning) to reduce the extra load on the engine.



Plan your route/ plan your trips.



Maximize use of top gear for better mileage.



Use clutch pedal only to shift gears.



Walking and cycling and rapid transit/public transport combined with improved land use can bring great health benefits.



Drive in correct gear for fuel efficiency.