



Transport Sector - Greenhouse Gas Emissions 2007

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Presentation Outline

- **Summary Statement**
- **Methodology Approach**
- **Energy Use and CO₂e Emissions 2007**
- **Comparison between 2007 and 1994 (base year)**

 **Energy**

 **Emissions**



Summary Statement

- **Transportation sector has emitted 142 Mt of CO₂e emissions in 2007 up from 80 Mt in 1994 (base year)**
- **Emitted 7.5% of the total national CO₂e emissions in 2007 (as against 6.4% in 1994)**
- **Road transport emitted 87% of total transport sector emissions in 2007**
- **Transportation sector is the 4th largest emitter of GHG emissions in India in 2007 (Electricity > Industry > Agriculture > Transport)**



Methodology Approach

Inventory has been generated using fuel-based (top-down) approach in 2 steps

→ Apportionment of Fossil Fuels used in transportation sector (specifically for Road Transportation)

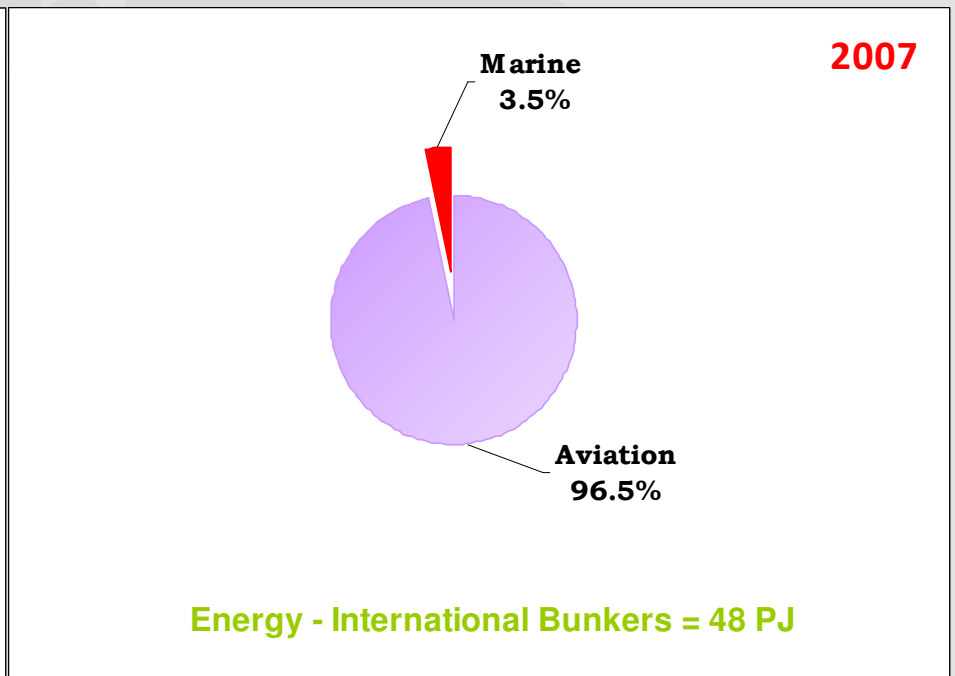
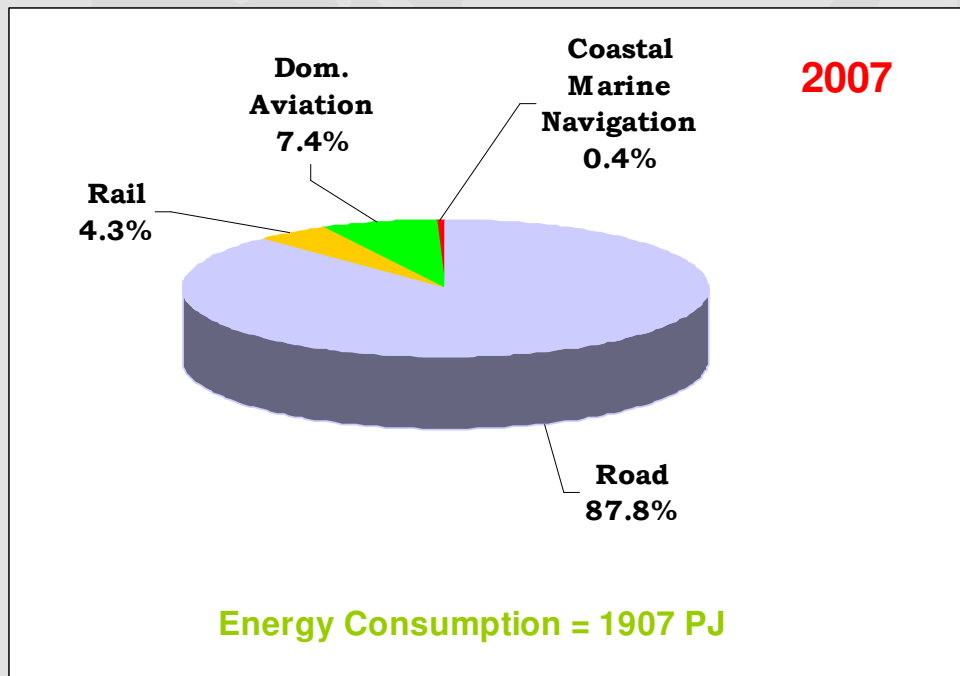
Based on information from Fuel Consumption Surveys and inference from the paper by Singh et al., 2008

→ GHG Emission Inventory for Transportation Sector

National GHG emission inventory has been generated as per IPCC guidelines



Transport: Energy Consumption 2007

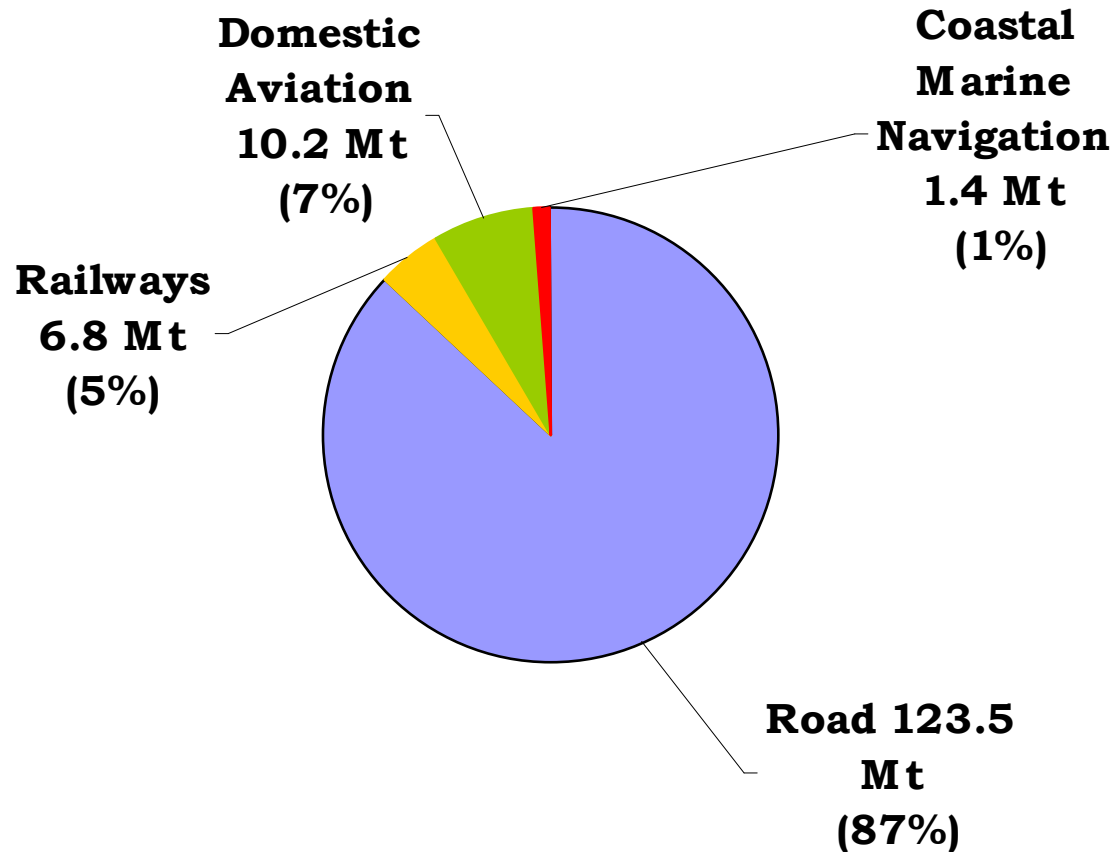


Fuel energy for **international marine and aviation bunkers** has not been included in the national totals but has been estimated for information



Mode-wise CO₂e Emissions 2007

2007

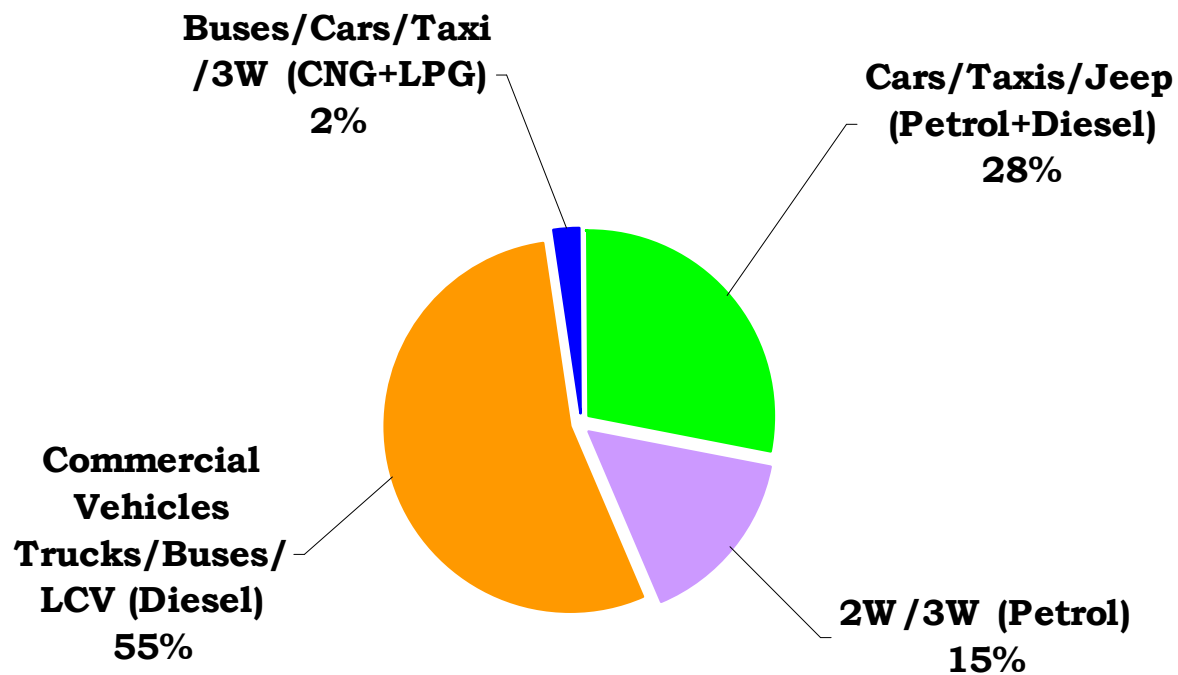


Total Emissions = 142 Mt



Road Transport: CO₂e Emissions by Vehicle Types 2007

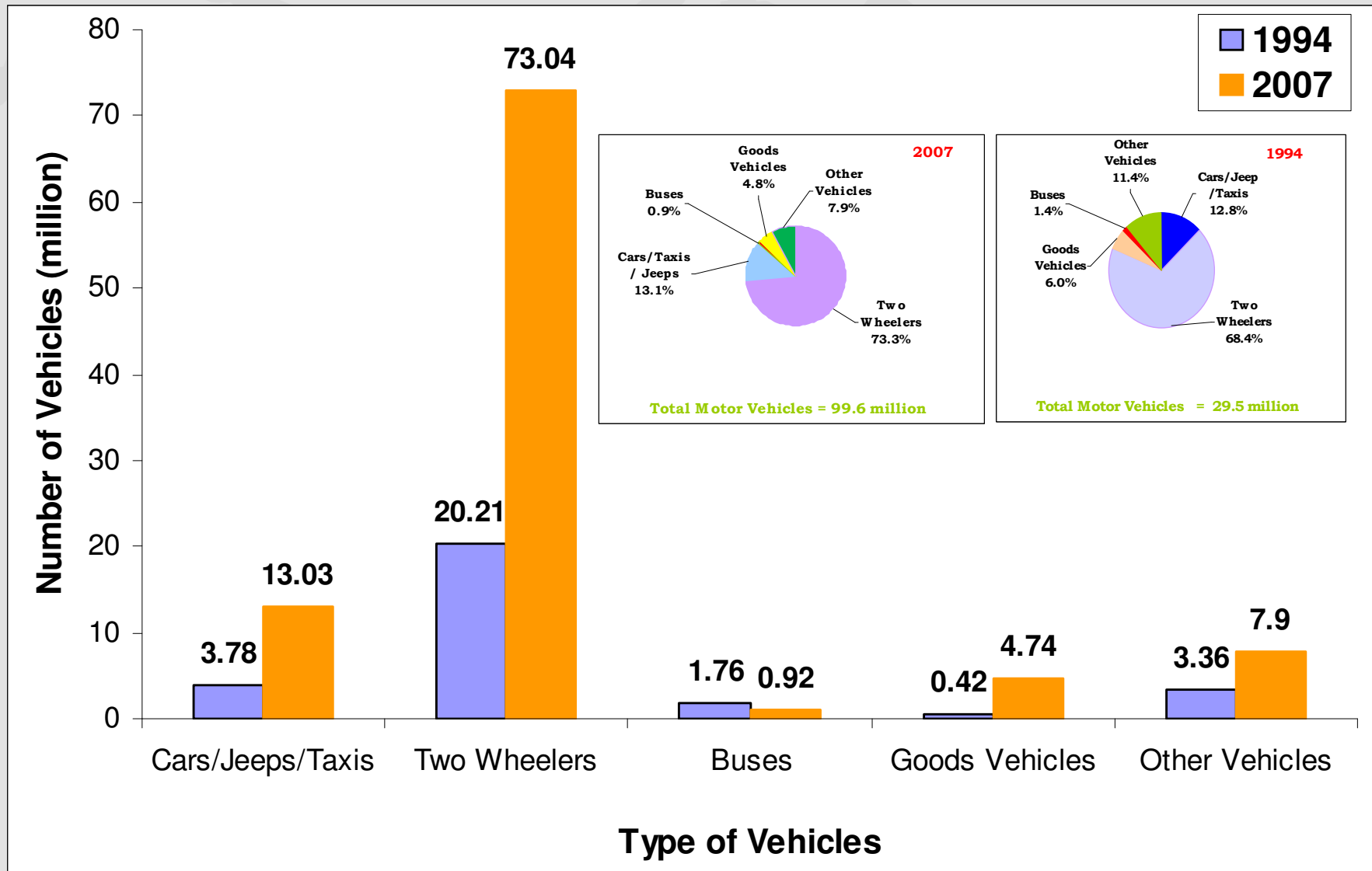
2007



Road Transport Emissions = 123.5 Mt

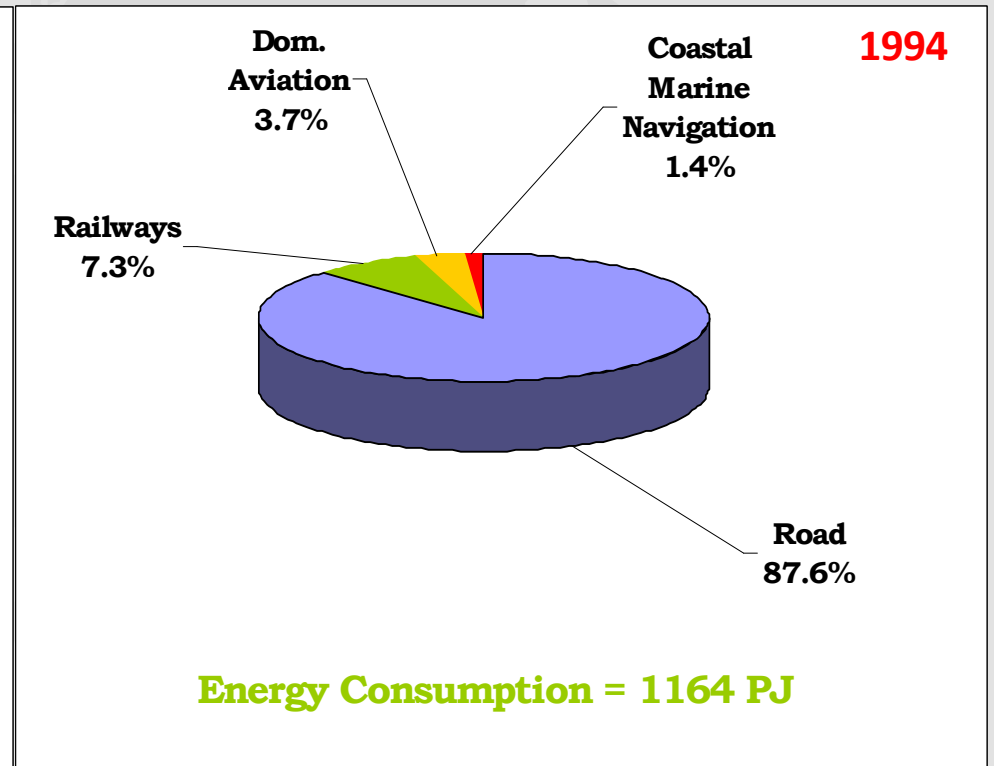
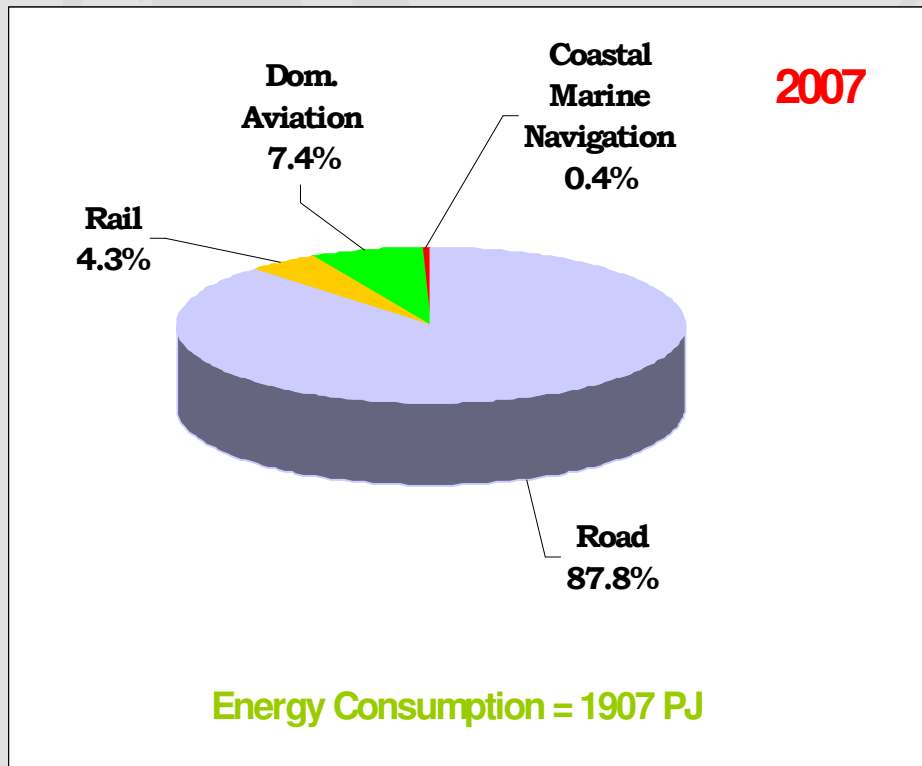


Motor Vehicles: 2007 versus 1994



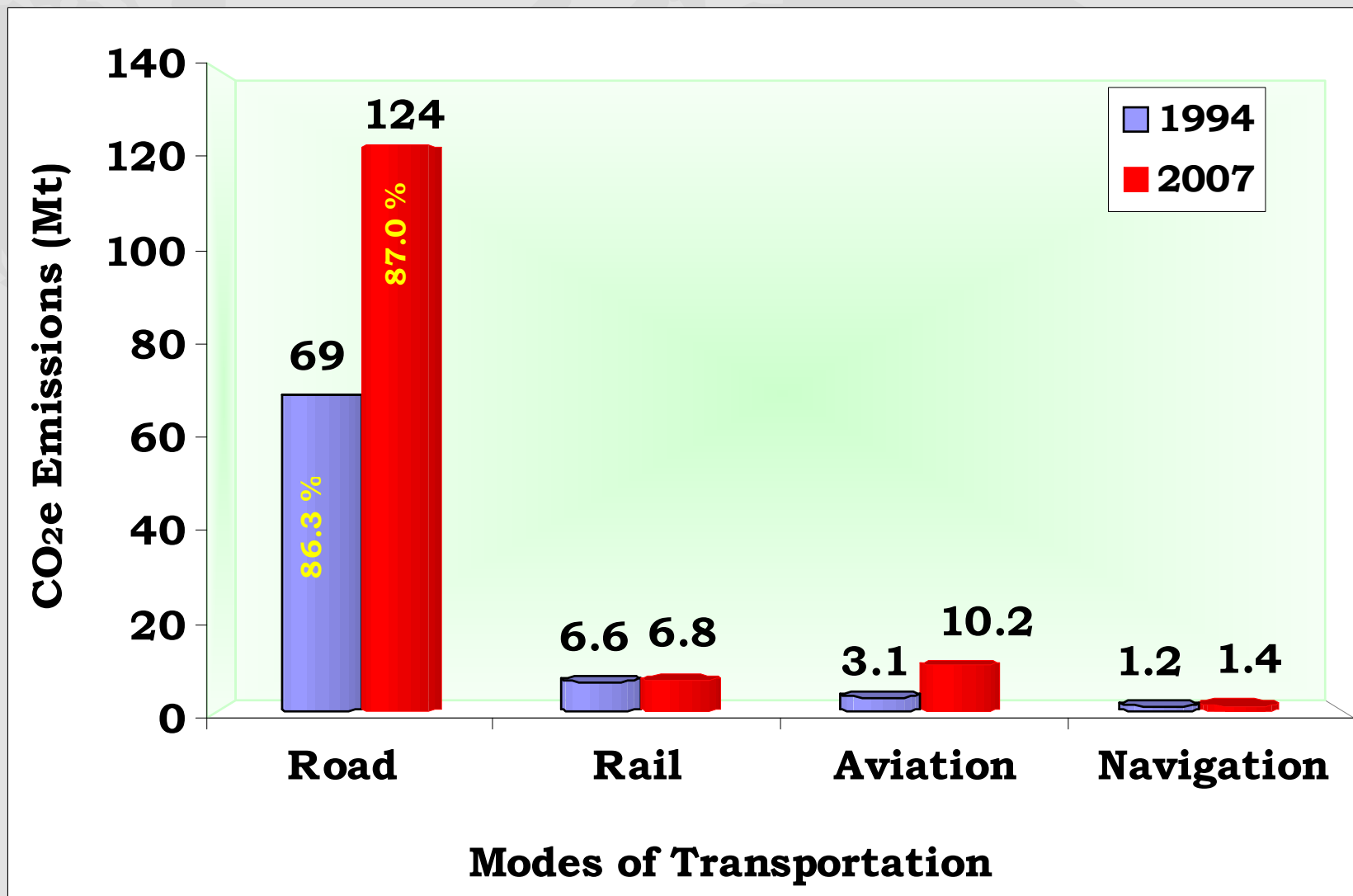


Transport: Energy Consumption 2007 versus 1994





Transport: CO₂e Emissions 2007 versus 1994





Thank You