



# Why should we focus on technologies?

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## How much fuel is consumed?

- Almost 60% of oil is consumed in transport sector.
- HDVs are responsible for 30% of the fuel use in this sector
- Trucks are responsible for 80% of the HDV fuel use.



## Trend in freight transport so far

- Trucks are much more energy intensive than rail or shipping.
- The share of trucking in overall freight haulage for the IEA countries has increased between 1990 and 2004.
- However, aggregate freight energy intensity has declined during the same period



## Contributing factors to the decline

- Improvements in technical fuel efficiency
- Changes in driver behaviour
- Higher load factors
- Increased share of large long-haul freight haulage



## **In order to continue this trend**

- **Improving technical fuel efficiency would be a necessary condition.**
- **Promotion of eco-driving would be the other important policy instruments...to be dealt with at the next workshop to be held in November.**



## Policy interventions needed

- commercial operators are said to be more conscious of fuel costs than private drivers, therefore, policy intervention is not needed in this area because the market ensures optimum fuel efficiency.
- Japanese intervened by introducing standards.
- The European Climate Change Programme (ECCP2) found options for further reduction may indeed exist.



## Appropriate policy wanted

- Deployment of such technologies could be accelerated by appropriate policy instruments.
- Policy instruments introduced without thorough consideration of technologies itself as well as its fuel saving potential could be harmful.
- For the introduction of such policies, innovative future technologies and their fuel saving potential should be properly understood.



## Conclusion

- Large share of fuel used in transport is consumed by HDVs
- Improving technical fuel efficiency would be the necessary condition to realize future fuel saving.
- The deployment of such technologies could be accelerated by appropriate policy instrument.
- For the introduction of such policies, innovative future technologies and their fuel saving potential should be properly understood.



**Thank you for your attention!**

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