



Working paper No. EFV-04-08
(GRPE Informal Group on EFV,
4th Meeting, 22/23 April 2009)

IEA work on Improving Energy Efficiency in Transport

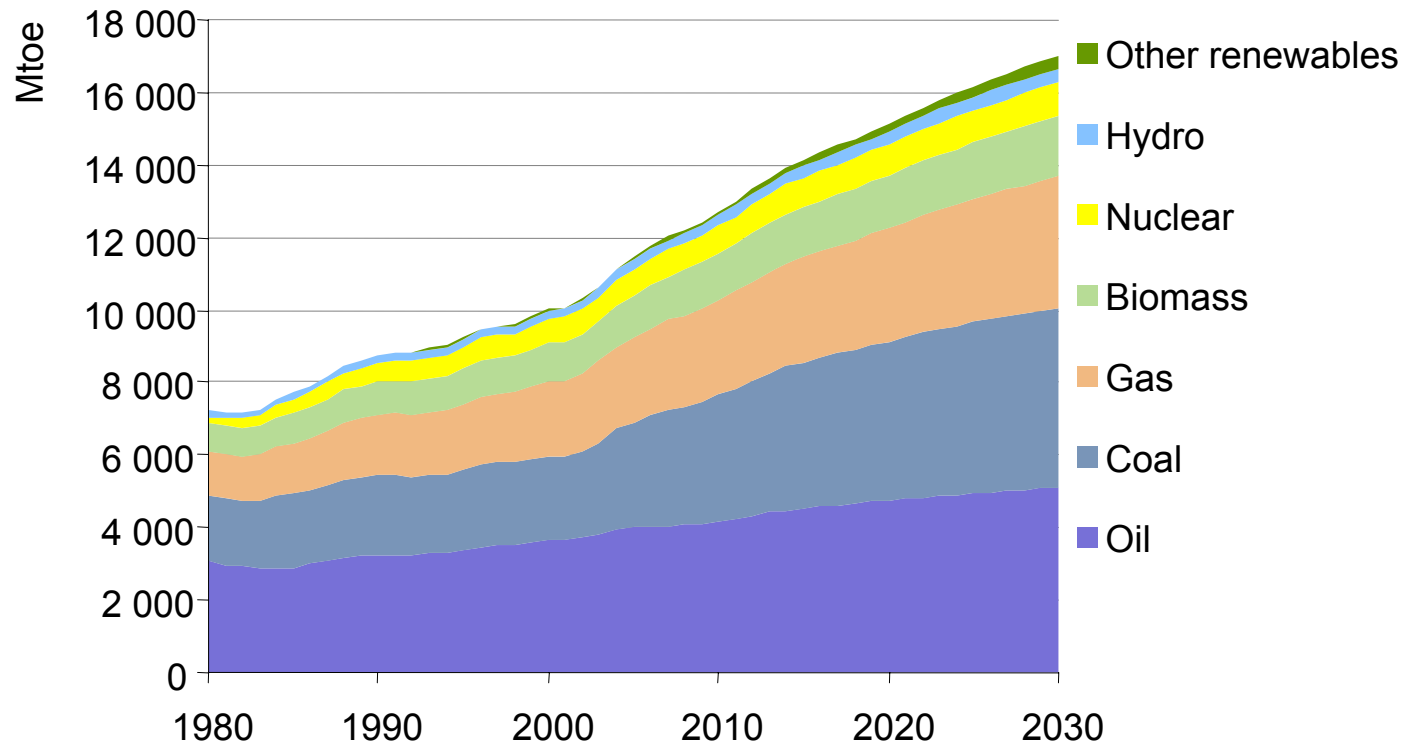
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4th informal group meeting Environmentally Friendly Vehicles (EFV),
22-23 April 2009

Slide 1



World primary energy demand in the Reference Scenario

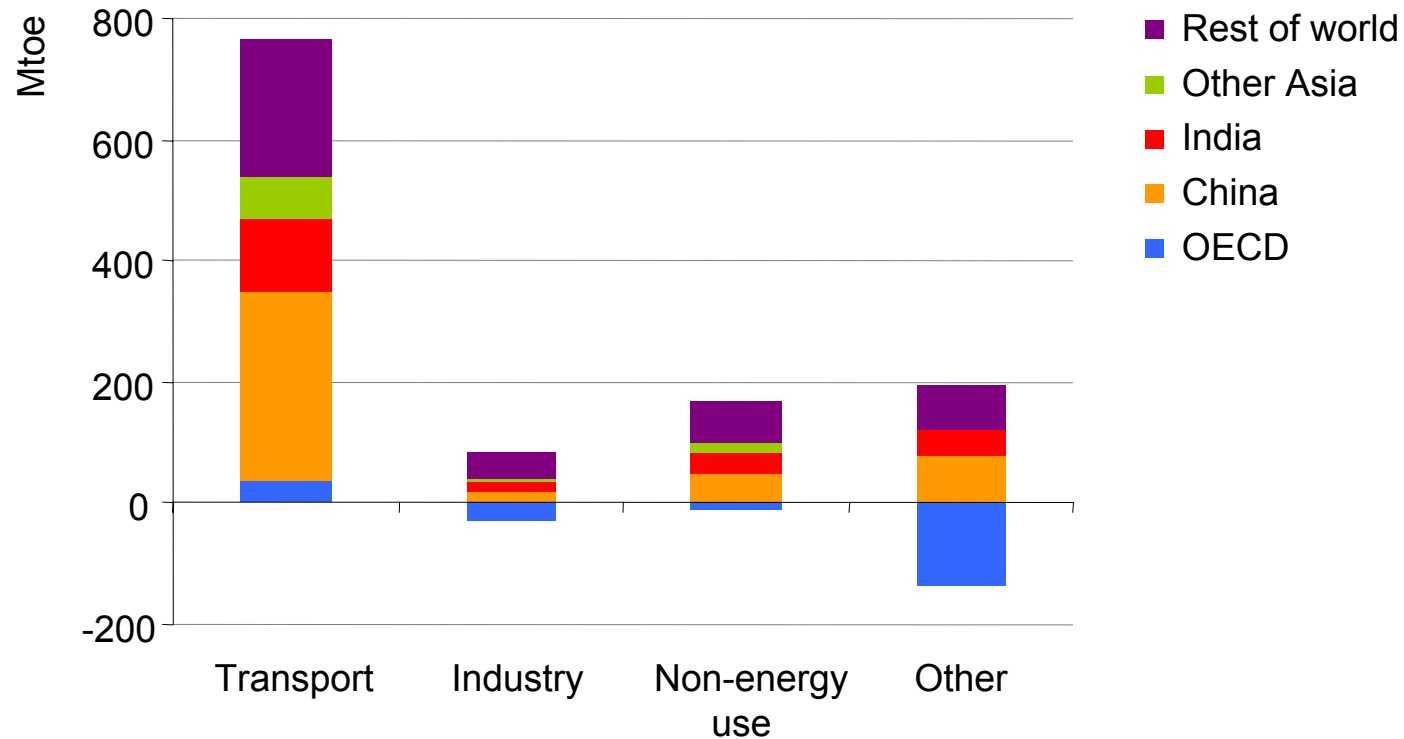


World energy demand expands by 45% between now and 2030 – an average rate of increase of 1.6% per year – with coal accounting for more than a third of the overall rise

Slide 2



WEO 2008 Reference Scenario: Incremental oil demand, 2006-2030

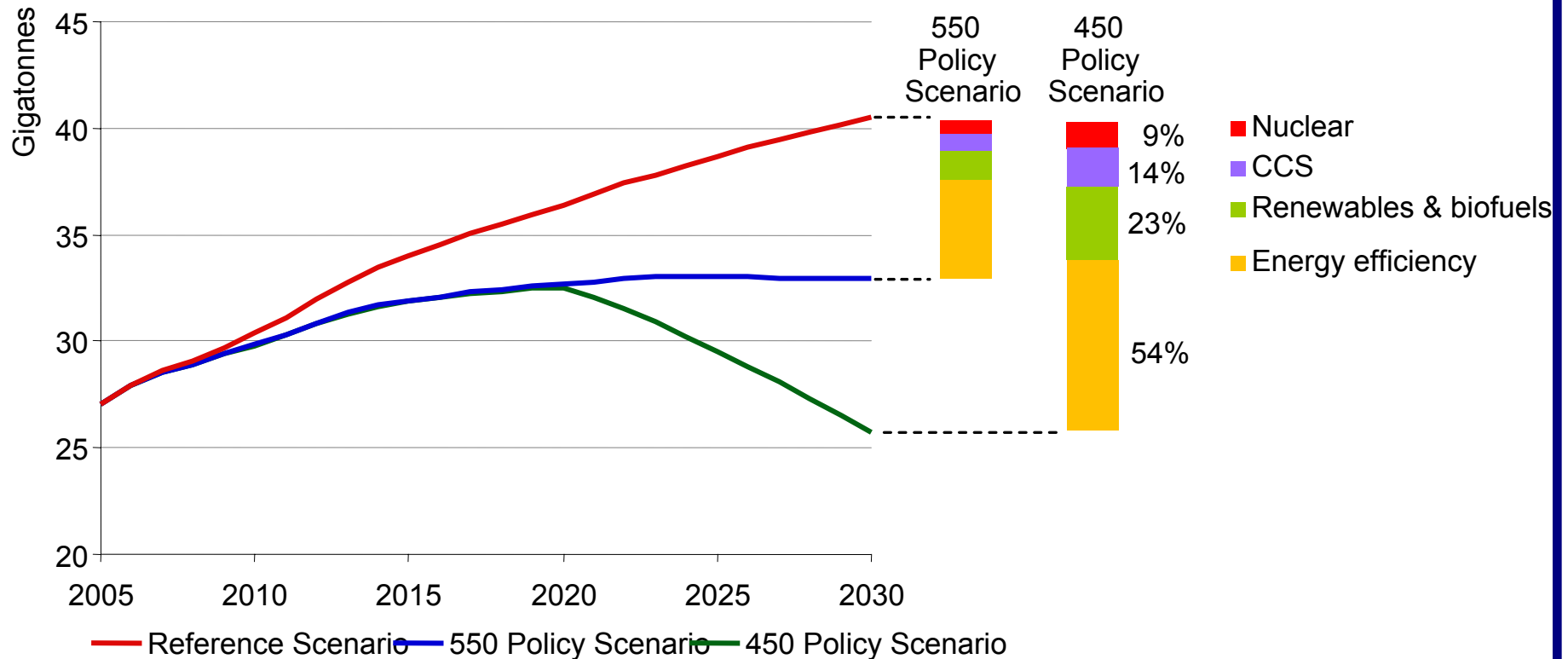


Around three-quarters of the projected increase in oil demand comes from transportation

Slide 3



Reductions in energy-related CO₂ emissions in the climate-policy scenarios



While technological progress is needed to achieve some emissions reductions, efficiency gains and deployment of existing low-carbon energy accounts for most of the savings



IEA Work on Vehicle Efficiency Policy (1)

- 25 Energy Efficiency Policy Recommendations by IEA (2008)
 - ◆ IEA recommends action on:
 - Fuel-efficient tyres
 - Mandatory fuel efficiency standards for light-duty vehicles
 - Fuel economy of heavy-duty vehicles
 - Eco-driving

- Information papers:
 - ◆ Fuel-Efficient Road Vehicle Non-Engine Components - Potential Savings and Policy Recommendations (2007)
 - ◆ Review of International Policies for Vehicle Fuel Efficiency (2008).



IEA Work on Vehicle Efficiency Policy (2)

- Workshops, within a wide range of advisory and promotional tasks designed to help countries to understand and implement the policy recommendations.
 - ◆ Three workshops on vehicle components:
 - Energy Efficient Tyres: Improving the On-Road Performance of Motor Vehicles, Paris, November, 2005.
 - Energy Efficiency Through Better Car Components, Paris, June, 2006.
 - Cooling Cars with Less Fuel, Paris, October, 2006.
 - ◆ An international workshop on Fuel Efficiency Policies for Heavy-Duty Vehicles, Paris, June 2007.
 - ◆ Workshop on Ecodriving, Paris, November 2007.

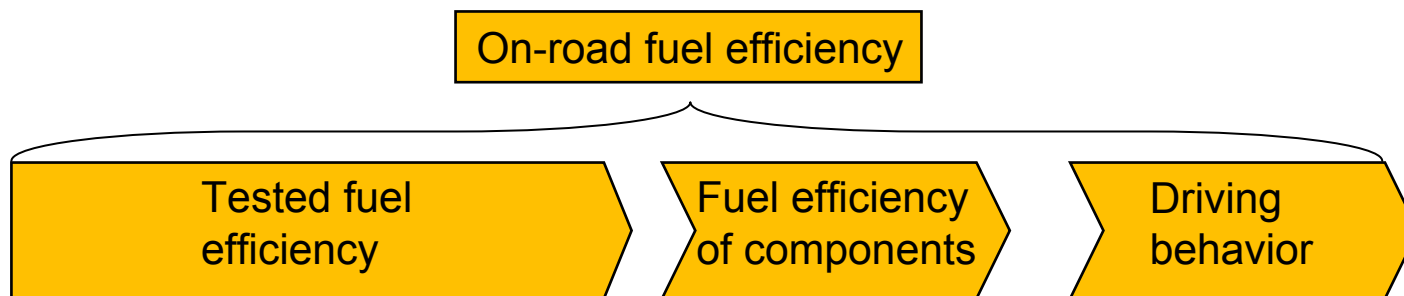


IEA Work on Vehicle Efficiency Policy (3)

- Forthcoming publication on transport policies and technologies (to be published in mid 2009).

Objective: Identify policies and measures to improve on-road fuel efficiency. The contents will cover:

- ◆ All transport modes such as road, rail, marine and air
- ◆ Various energy sources such as fossil fuels, biofuels, hydrogen and electricity
- ◆ Technologies to improve energy efficiency
- ◆ Policies to foster technology improvement and shift markets more energy efficient



Slide 7



Global Fuel Economy Initiative

- IEA and its partners launched the “Global Fuel Economy Initiative” on 4 March, 2009 in Geneva.

Partners:

- ◆ OECD International Transport Forum
 - ◆ UN Environment Program
 - ◆ FIA Foundation
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- This initiative features four key elements:
 - ◆ Data development and analysis of fuel economy potentials by country, region
 - ◆ Support for national and regional policy-making efforts
 - ◆ Cooperation with stakeholders (e.g. vehicle manufacturers)
 - ◆ Information campaigns around the world to educate consumers, stakeholders



Conclusions

- Without policy interventions, CO₂ emissions and energy use in many countries will increase significantly by 2050
- A number of effective policies and efficient technologies for CO₂ reduction are already in place
- It is important to share and implement these “Best Practices” worldwide
- EFV would help reduction of CO₂ emissions and energy use through promotion of fuel efficient vehicles



References

Papers:

- **25 Energy Efficiency Policy Recommendations by IEA**
http://www.iea.org/G8/2008/G8_EE_recommendations.pdf
- **Fuel-Efficient Road Vehicle Non-Engine Components**
http://www.iea.org/Textbase/publications/free_new_Desc.asp?PUBS_ID=1977
- **Review of International Policies for Vehicle Fuel Efficiency**
http://www.iea.org/Textbase/Publications/free_new_Desc.asp?PUBS_ID=2049

Workshops:

- **Energy Efficiency Through Better Car Components**
http://www.iea.org/Textbase/Papers/2008/cd_energy_efficiency_policy/5-Transport/5-vehicle_efficiency.pdf
- **Cooling Cars with Less Fuel**
http://www.iea.org/textbase/work/workshopdetail.asp?WS_ID=247
- **Energy Efficient Tyres: Improving the On-Road Performance of Motor Vehicles**
http://www.iea.org/Textbase/work/workshopdetail.asp?WS_ID=227
- **An international workshop on Fuel Efficiency Policies for Heavy-Duty Vehicles**
http://www.iea.org/textbase/work/workshopdetail.asp?WS_ID=306
- **Workshop on Ecodriving**
<http://www.internationaltransportforum.org/Proceedings/ecodriving/ecodriving07.html>