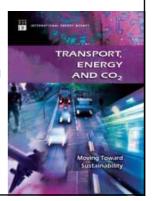






IEA's New Transport Publication

- Released 27 October, 2009
- Builds on ETP 2008, will feed into ETP 2010
- Transport analysis based on on-going development of IEA Mobility Model, supporting research
- Book features:
 - Indicator update and extension to more countries
 - Technology potential and cost updates
 - Fuel and Modal assessments (LDV, truck, aviation, shipping)
 - Detailed scenario analysis with regional detail – Baseline, High Baseline, Modal Shift, BLUE technology scenarios
 - Role of future technologies, modal shift
 - More regional detail than in ETP
 - Continuing development of CO2 mitigation cost analysis
 - Policy considerations



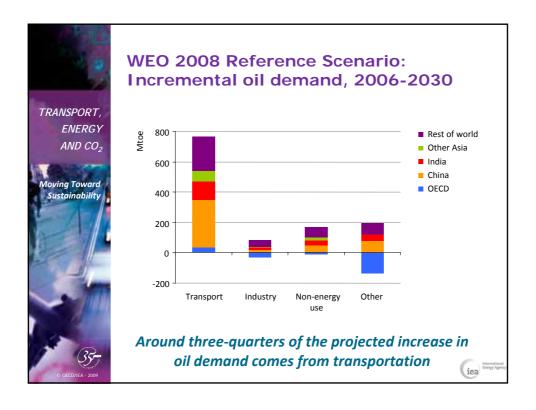


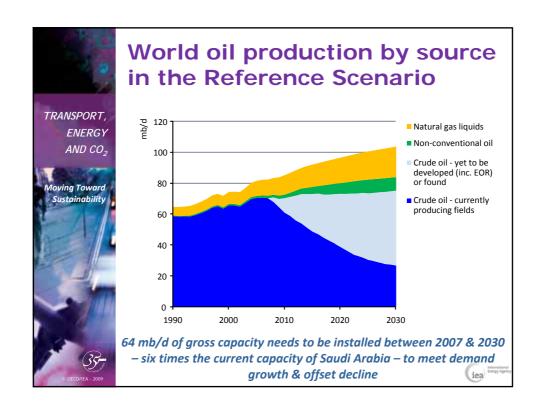


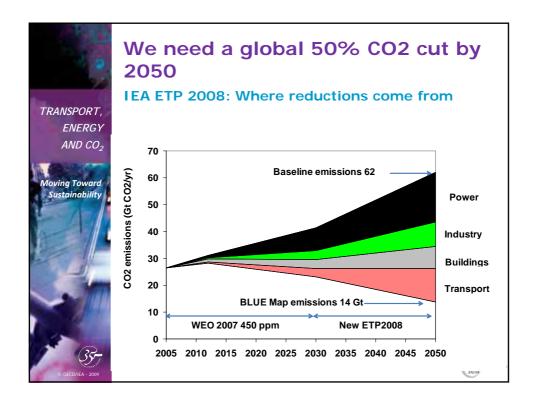
IEA Electric and Plug-in Hybrid Vehicle Roadmap published October 2009

www.iea.org







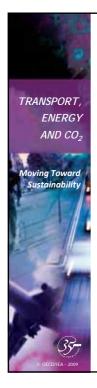




How do we get there? The IEA ETP BLUE Map approach

- 1. Integrated transport planning and investment
 - 25% reduction in growth of car use/air travel by 2050
 - Doubling of investment in and use of transit systems compared to baseline
 - Some motorised transport avoided (shorter trips, more walking/cycling, telematics)
- Achieve 50% reduction in new car fuel intensity by 2030 (doubling of MPG and KM/L)
 - From about 8 L/100km down to 4
 - Existing, commercial technologies
 - including hybrid vehicles, better components, light weighting
 - With fuel savings, net cost from a societal perspective will be low or even negative
 - Also 30-50% improvement potential for other modes (trucks, trains, ships, planes)

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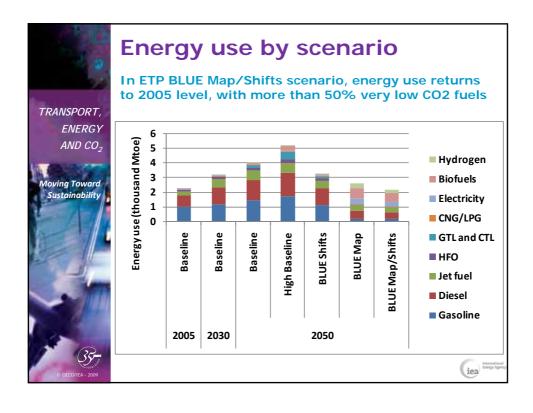


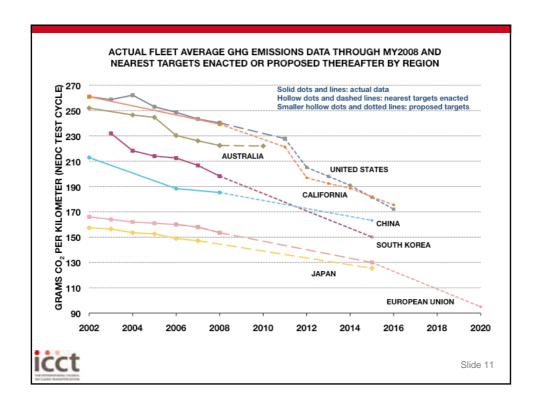
How do we get there? The IEA ETP BLUE Map approach

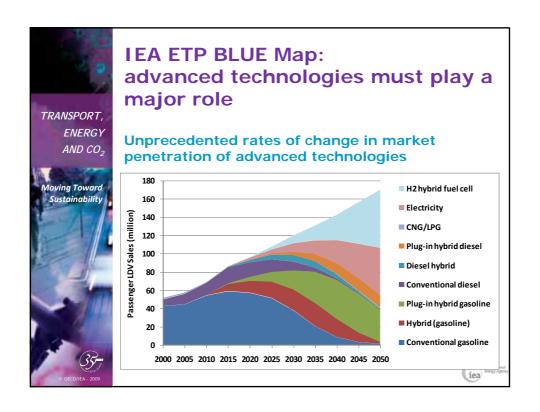
- 3. Widespread introduction of advanced technology vehicles by 2030, dominance by 2050
 - ETP BLUE Map: EVs/PHEVs reach sales of 7 million by 2020, 30 million by 2030
 - Fuel cell vehicles start ramp up after 2020
 - Battery costs are dropping, must reach USD 300/kWh by 2020
 - Plug-in hybrids (PHEV) are a promising transition strategy
 - Low GHG electricity/hydrogen must be widely available by 2030
- 4. Use of advanced biofuels
 - Reach 12% of transport fuel by 2030, 25% by 2050

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- Feedstocks from residues, wastes, dedicated lignocellulosic crops
- Must resolve land use change, soil carbon, ecosystem, food security issues









IEA work on vehicle efficiency Linked to the Global Fuel Economy Initiative (GFEI)

Launched on 4 March 2009 in Geneva by IEA, ITF, UNEP, and the

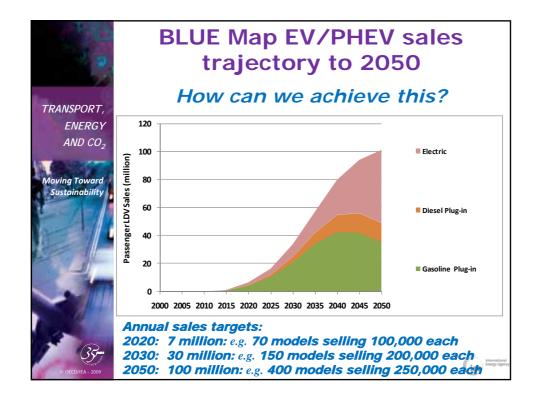






- GOAL: 50% reduction in fuel consumption per km of 2050 (for the vehicle stock) compared to 2005
- Roughly equivalent to an implementation of a 50% improvement by 2030 for new sales, worldwide (from about 8 L/100km down to 4)
- Four main activity areas:
 - Analysis of global fuel economy trends and potential
 - Outreach to governments, assistance in policy development
 - Outreach to stakeholders, dialogue to improve coordination
 - Information campaigns







Um, Policies?

- Clearly we will need strong policies both internationally and at national levels (and local!)
 - (cross sectoral) cap and trade yes, but time to implementation might be long
 - Carbon price yes, but \$50/tonne is only \$0.12/litre for gasoline
 - Bigger price changes can be achieved in many countries just by removing subsidies
- National measures should include:
 - Major increase in investments in the most efficient modes and related infrastructure
 - Fuel economy standards on all types of vehicles
 30-50% reductions in energy intensity by
 2050 seem possible for most
 - Advanced biofuels yes, but we should not push this too fast! Low carbon fuel standards can help
 - EVs/FCVs but relatively high cost and massive infrastructure investments and coordination will be needed – need to start now
- Local level integrated planning / land use/ modal shift policies (but national gov's can encourage) iea