Wind: Policy Incentives, Technology Deployment

*From Roadmaps to Implementation*

Experts’ Group on R&D Priority Setting

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97% of the projected increase in emissions between now & 2030 comes from non-OECD countries – three-quarters from China, India & the Middle East alone.

Reductions in energy-related CO2 emissions in IEA scenarios

Technological progress is important... but **efficiency gains** and deployment of **existing** low-carbon technologies account for most of the savings.

In the 450 Policy Scenario, the power sector undergoes a dramatic change – with renewables, CCS, and nuclear each playing a crucial role.

Wind and RES in global electricity (450 ppm Scenario)

Renewables would account for 40% of global electricity in 2030

Wind alone would provide 9%

Principles of Good Policy Design

- Address non-economic barriers
- Predictable and transparent
- Transitional
- Tailored to suit technology maturity
- System friendly
Technology and market development and deployment

*Energy Technology Perspectives 2008* included initial work on identifying technology milestones to 2050 for portfolio of 17 technologies

*Empowering Variable Renewables - Options for Flexible Electricity Systems*: new work on measures to meet the variability challenge

Wind roadmap

Some key priorities for wind technology:
- Wind resource and forecasting
- System integration
- Deep offshore
Thank You

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