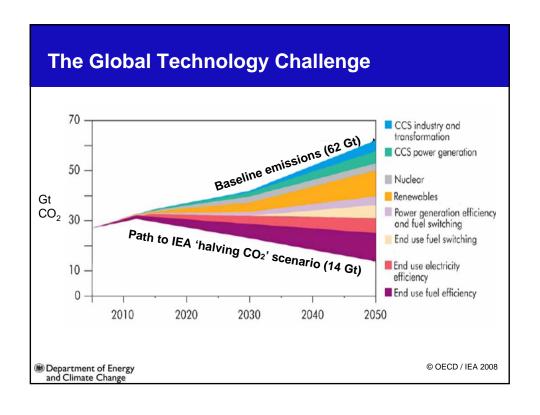
## The Energy Innovation Challenge Willy Rickett Director General, Energy Group

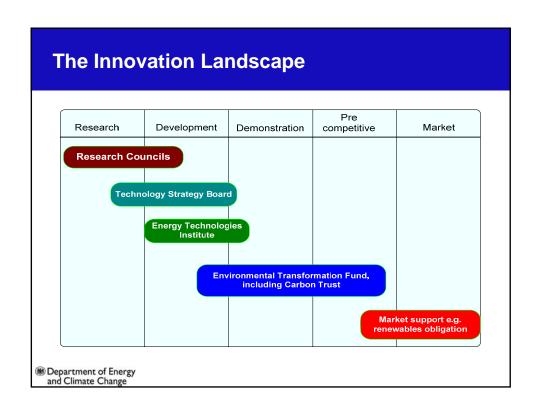
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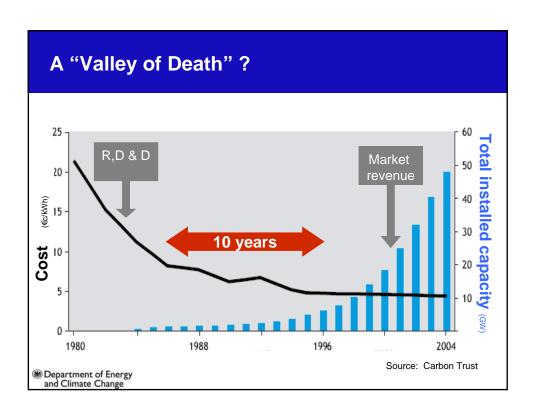


# Power Renewables, nuclear, Carbon Capture Storage and Networks Transport Electricity & biofuels for road, shipping, aviation and electricity Heat Biomass, heat pumps and electricity Electricity Energy Efficiency Vehicles, appliances, new buildings and old buildings

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### **Drivers of Change** "Push" "Pull" **Environmental Transformation Fund** Market tightness Carbon Capture Storage Stable policy regime Demonstration Project EU Emissions Trading Scheme **Nuclear facilitation** (ETS) Supply chain & Skills initiatives Renewable Electricity Obligation Research Council and Energy Renewable Transport Fuel Obligation Technology Institute Funding Proposed Renewable Heat Incentive Feed In Tariff for Microgeneration Department of Energy and Climate Change





### The Government role

- Leadership and influence in global & EU climate change policy

   and leading by example.
- Funding for research, development and demonstration of technology advances
- Removing barriers to deployment, e.g. planning issues, grid development...
- Consistent policy framework that recognises need for long term sustainability and security of supply.
- Provide supportive environment for business e.g. skilled workforce

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### Some issues

- Will energy demand for heat and transport shift to electricity and what does that mean for innovation policy?
- Are we overlooking transformational technologies such as smart grids, electricity storage, future biofuels and PV?
- Have we got the balance right between push and pull?
- Does our innovation landscape work in terms of measures and bodies?
- Is there a valley of death and, if so, what's the remedy?
- What more can DECC do to join up supply side and demand side, and energy & climate change innovation?
- What are the priorities for international collaboration?

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