

Outline

- (1) EU context and background
- (2) Low Carbon Economy Roadmap 2050 (CLIMA)
- (3) Approach to the Energy Roadmap 2050 what we're aiming for

(1) EU context and background

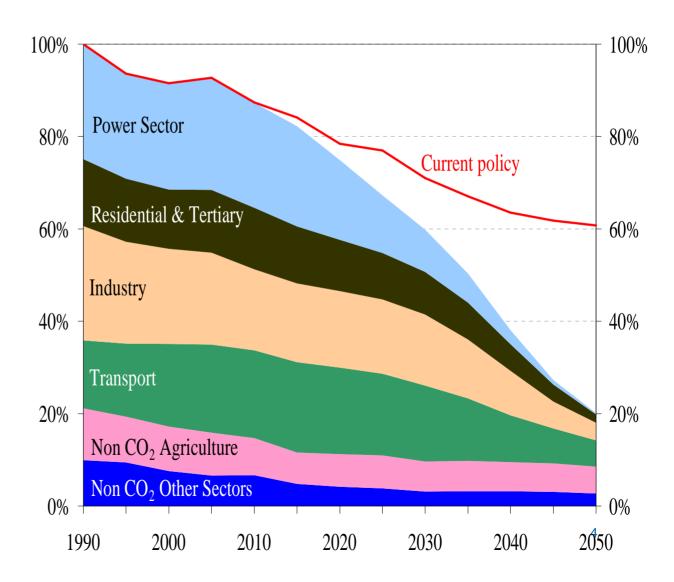
- European Council commits to GHG emissions reductions to 80-95% below 1990 levels by 2050 (Oct 2009)
- European Energy Summit (4 February 2011) confirms energy at top of political agenda
- European Council endorses key points in Commission's Energy 2020 strategy – "Europeanisation" of energy policy (Feb 2011):
 - » completion of internal market
 - » external coordination
 - » cooperation on both 2020 and 2050 goals
- Looks forward to elaboration of a low-carbon 2050 strategy a framework for longer-term action in energy and related sectors
- Will keep developments under regular review

(2) Low-Carbon Economy Roadmap (8 Mar 2011)

Basis of scenarios 80% domestic reduction in 2050

Efficient pathway:

- -25% in 2020
- -40% in 2030
- -60% in 2040



(2) Low carbon Economy Roadmap - sectoral milestones

GHG reductions compared to 1990	2005	2030	2050
Power (CO ₂)	-7%	-54 to -68%	-93 to -99%
Industry (CO ₂)	-20%	-34 to -40%	-83 to -87%
Transport (incl. CO2 aviation, excl. maritime)	+30%	+20 to -9%	-54 to -67%
Residential and services (CO ₂)	-12%	-37 to -53%	-88 to-91%
Agriculture (non-CO ₂)	-20%	-36 to -37%	-42 to -49%
Other non-CO ₂ emissions	-30%	-72 to -73%	-70 to -78%

(3) Energy Roadmap 2050 - concept

- Sectoral roadmaps more depth on global and EU context, dynamics in the sector, interplay of decarbonisation and other objectives
- Energy Council Energy Roadmap 2050 should illustrate possible future fuel mixes and policy measures required to get there
- Scope not just power sector
- Scenario analysis
- Purpose is not to choose one scenario but to apply long term perspective to EU energy policy

(3) Energy Roadmap 2050 - focus

- Focus on getting the best out of Europe/ "cost of non-Europe" in transition to low-carbon energy system
- Encourage better understanding of implications for markets and of choices made by Member States
- Establish long term perspective across the energy policy agenda
- Signal for investors, significant investmennt needed

(3) Energy Roadmap 2050 – first policy implications

Some policy actions make sense in a broad range of scenarios, including:

- RTD and innovation
- Energy efficiency
- Pan-European energy network
- Fully functioning internal energy market

(3) Energy Roadmap 2050 - preparation

- Public consultation, other stakeholder contributions
- On going review stakeholder scenarios and position papers
- Advisory Group independent experts (report)
- Discussions in Informal Energy Council, 2-3
 May 2011 and Energy Council 10 June 2011
- DGs for Energy, July, focus on technology
- Impact Assessment scenarios
- Planned adoption: November
- Priority of Danish Presidency

(3) Energy Roadmap 2050 – information

http://ec.europa.eu/energy/strategies/2011/ro
 admap 2050 en.htm - see "Energy Roadmap 2050 - State of Play"

Thank you for your kind attention