

EU low carbon strategy and research needs from the LCS-RNet

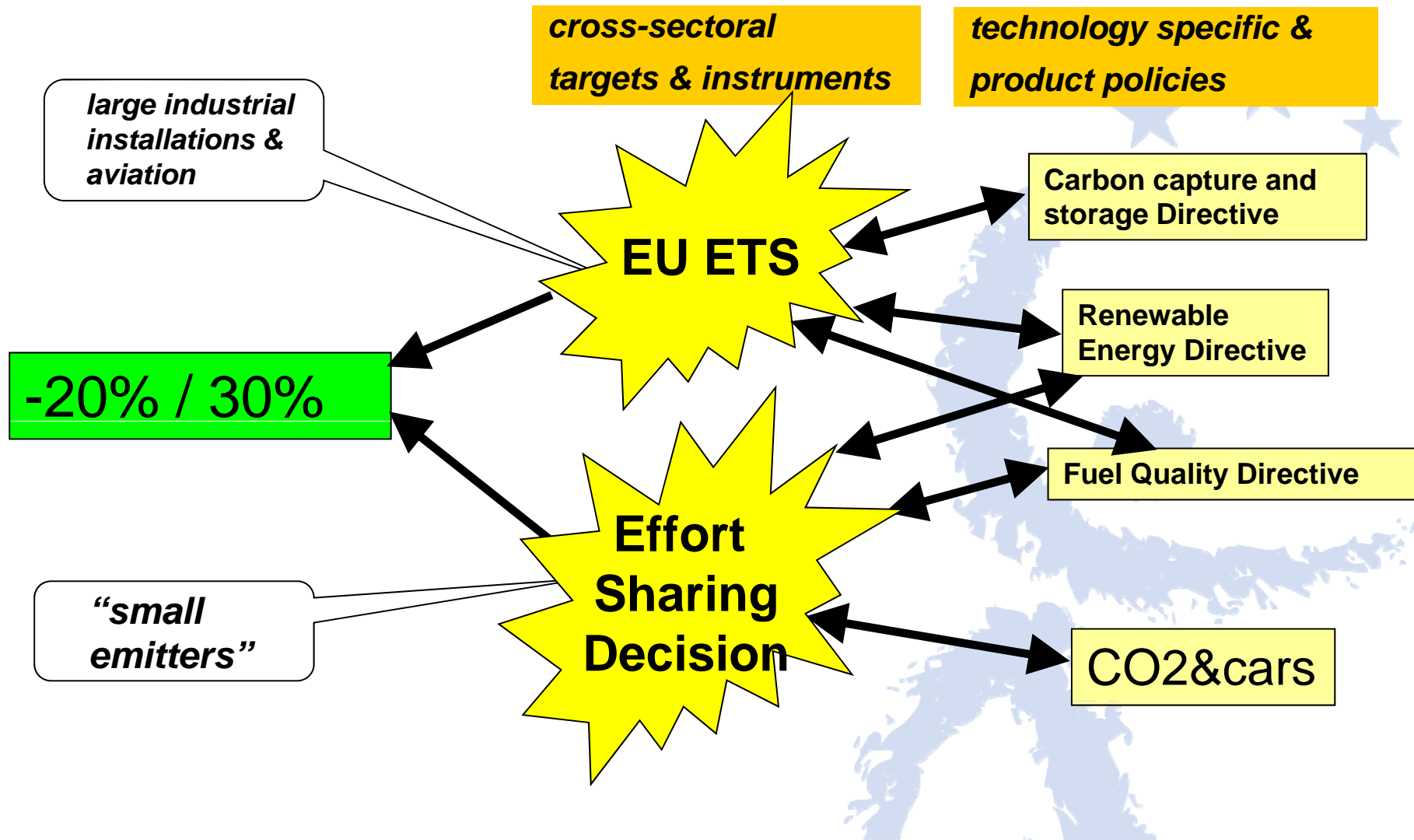
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- ★ **EU first large region adhering to 2°C target**
- ★ **Copenhagen Accord recognises 2°C target on a global scale, making explicit reference to IPCC**
- ★ **European Council has set targets for EU**
 - ↪ March 2007: -20(30)% GHG/ 20% RES/ +20% EEff. 2020
 - ↪ October 2009: -80-95% by 2050 compared to 1990
 - ↪ Consistent with IPCC recommendations
- ★ **Climate and Energy Package 2009 puts policies and measures in place to reach 2020 targets**
 - ↪ E.g. EU Emissions Trading builds on economic research
 - ↪ Impact assessment draws on latest research JRC+others

The Climate and Energy Package at a glance



★ Ongoing work on 2050 low carbon strategy

- ↪ Roadmapping how to reach EU long term targets
- ↪ also key element of Europe 2020 strategy flagship
- ↪ Publication of roadmap(s) planned for early 2011
- ↪ Stakeholder consultation to be launched soon

★ Builds on and needs research inputs, e.g.

- ↪ (combination of) options which are technically, economically and socially feasible
- ↪ type of actions and policies (and their combination) that are effective and efficient in reducing emissions

★ **Need for more policy-oriented research**

- ↪ with stronger socio-economic component
- ↪ which takes the governance set-ups into account
- ↪ LCS-RNet as important initiative

★ **Key examples for research topics:**

- ↪ Link between deforestation, agriculture and mitigation
- ↪ Mitigation options and policies on a regional scale
- ↪ Gradual development of a global carbon market

★ **Deforestation, agriculture and land use in general will become a hot policy issue**

↪ Need for better understanding of the complex mitigation options involved in land use, land use change and forestry

★ **A lot of methodological issues still open, not sufficiently covered in policy assessments yet**

↪ Accounting and monitoring of emissions (LULUCF),

↪ type of policies, costs and relation to carbon market,

↪ Interaction with increased demand for biomass, other agricultural needs, other activities and biodiversity

Research needs: Gradual development of a global carbon market

- ★ **Need to inform policy makers better on efficient and realistic policies and their impacts**
 - ↪ Policies that provide a real or implicit price of carbon could create incentives, and their interactions with other policies
 - ↪ for producers and consumers to significantly invest in low-GHG products, technologies and processes.
- ★ **Emissions trading systems contribute to a global carbon market, but its structure and evolution needs better understanding**
 - ↪ Research often assumes perfect carbon markets
 - ↪ Analysis of more realistic intermediate stages needed
 - ↪ inform the policy debate e.g. how to move gradually towards a cap and trade system in many countries

- ★ **Informs the policy debate (e.g. further development of global and EU effort sharing)**
- ★ **Improve the link from top-down approach to bottom-up approaches and policies**
 - ↪ e.g. what would global or regional ambition levels mean in terms of specific policies at the national scale
 - ↪ need to better understand and compare differences between models and ways of their combination
 - ↪ Better assessment of cost and benefits of policies