

Roadmap for moving to a low carbon economy in 2050

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1: Climate change challenge

★ Global climate objective: max. 2°C temperature increase

 * "Reaching the EU objective, in the context of necessary reductions according to the IPCC by developed countries as a group, of reducing greenhouse gas emissions by 80-95% by 2050 compared to 1990" (European Council, Feb 2011)

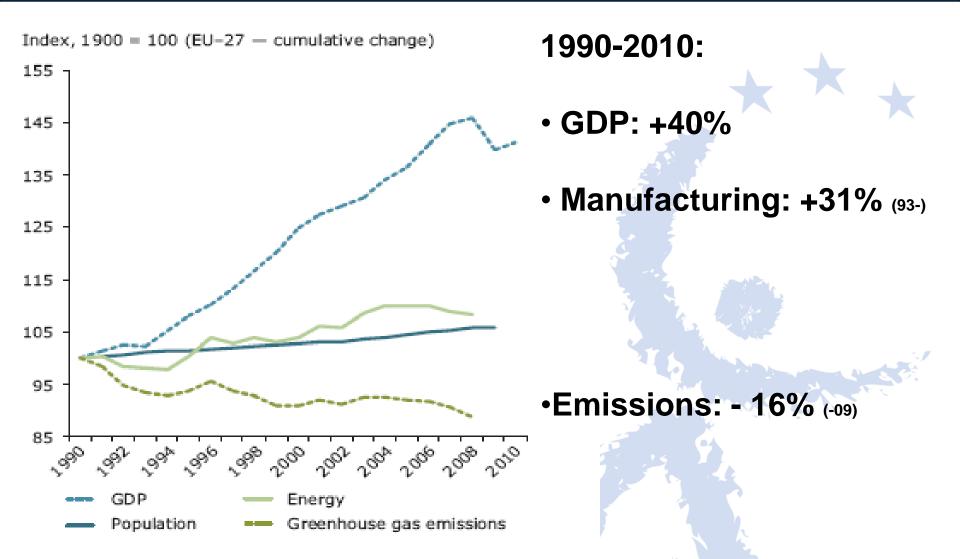
★ Key scenarios analysed:

- Is Global action − in line with 2°C
- Fragmented action based on Copenhagen pledges of over 80 countries, but not sufficient for 2°C (ca. 4°C in 2100)
- ✤ Reference over 4°C in 2100

★ Synergies with competitiveness & energy security



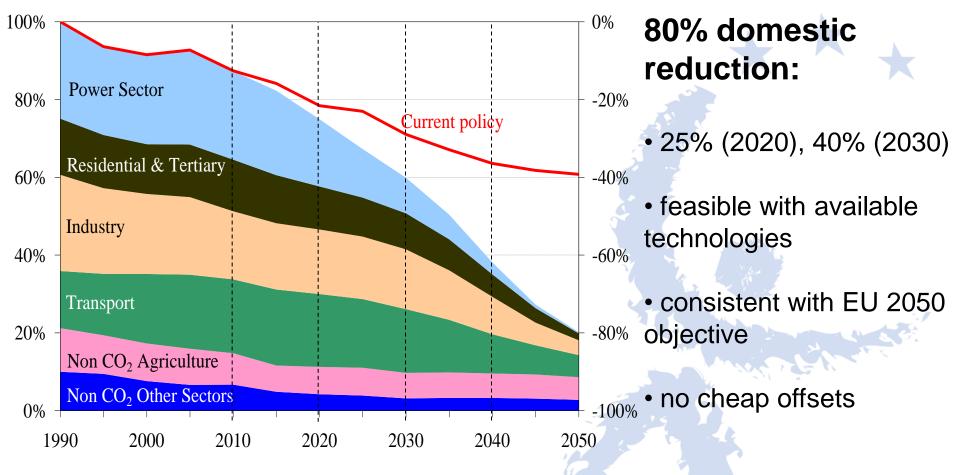
2: GHG emissions: Where are we now?





3: Cost-effective transition

Energy for a Changing World



Source: PRIMES + GAINS, global action, effective technology scenario



4: Costs and benefits for the EU

 ★ Additional investment: € 270 billion annually 2010-2050, or 1.5% of GDP on top of current 19%

But:

- **★** Significant increase in domestic investments
- Increased valued added for wide range of manufacturing industries
- ★ Fuel cost savings (€ 175-320 billion annually over 40 years) which would otherwise largely flow out
- ***** Net job creation: 1.5 million in 2020
- ★ Air quality and health benefits: € 27 billion in 2030 and € 88 billion in 2050