

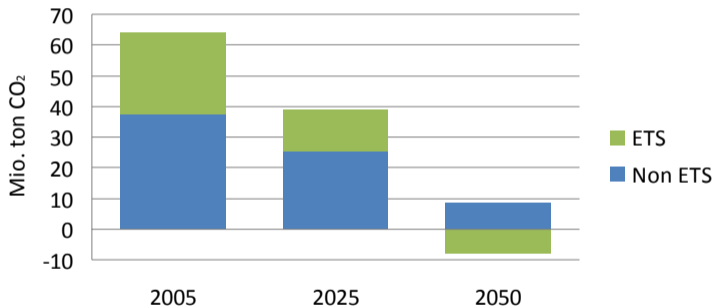


Can the vision be
realised on the market?

power to the people

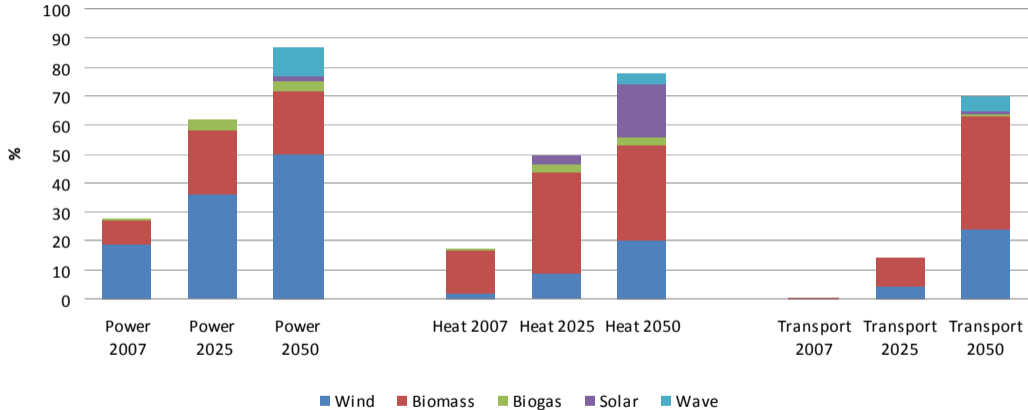
Lars Hansen, Danish Energy Association

Denmark CO₂-neutral in 2050



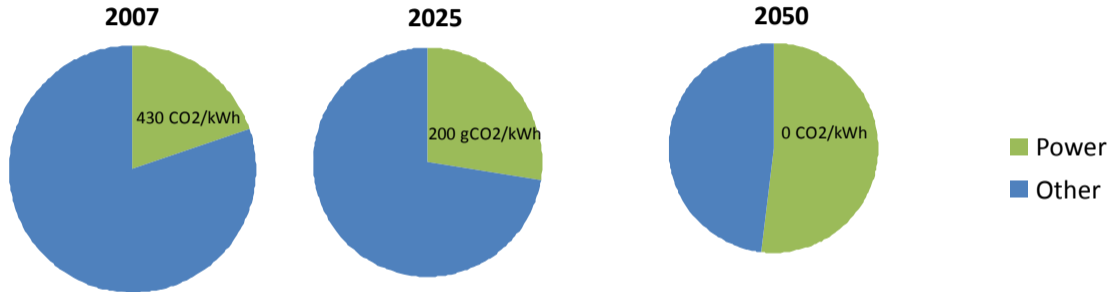
- Energy Efficiency
- Renewable Energy
- CCS

Renewable Energy



- The total share of renewables will increase to 40 percent in 2025 and 80 percent in 2050.

Power Carries the Solution



- We reduce energy consumption by energy efficiency.
- Share of electricity increases to more than 50 % in 2050.
- Heat and power are used as energy carriers.

- Wind
- Biomasse
- Carbon Capture and Storage
- Biogas
- Solar
- Wave
- Biofuels

- Replace oil and gas in heating
- Replace diesel and gasoline with biofuels and power
- Replace coal and use CCS in the power sector

- Capital Intensive
- Needs return of the investment higher than interest rate
- Long investment horizons
- High risk exposure
 - Political framework
 - Energy prices
 - Market design
 - Subsidies
 - National or international Framework

- Risk costs money
- Return on the investment has to include the risks
- Investments take time, planning, building ...

Three central elements

- A Clever distribution of tasks
- Legislation that promotes investments
- Cost efficient clean and safe energy

- 30% CO2 reduction target
- Expansion of ETS
- 20% Renewable target for transport
- Harmonising RE-support schemes
- EU infrastructure planning
- More money for R&D

- Three additional Off-shore wind farms
- Adjustment of support mechanism
- Flexible use of Biomass
- Infrastructure investments
- Change of energy taxes
- R&D