France Low Carbon Strategy - Industry

Frédéric BRANGER
MTES/BMC
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France aims to be carbon neutral by 2050

- Carbon sink rather limited requires to strongly reduce emissions in all sectors
How to reach Net-Zero?

*Lessons from the scenario*

- **Decarbonized energy by 2050**
  - Biomass
  - Renewable Heat
  - Decarbonized Electricity

- **A strong decrease of energy intensity in all sectors**
  - Demand reduction (behaviours)
  - Energy Efficiency

- **A strong decrease of non-energy emissions**
  - Agriculture
  - Industrial Processes

- **Increase in carbon sinks**
  - Forest
  - Harvested Wood Products
  - Other Lands
  - CCS
Energy Balance in 2050

Ambitious targets on biomass, but lack of availability requires massive electrification (transports & industry)
Industry

Industrial Production

- Stable production of Energy Intensive Industries
- Ambitious hypotheses on recycling and circular economy
Energy efficiency and energy decarbonisation

- 25-30% of energy intensity depending on sectors + heat recovery (10-12 TWh)

- 70% of industry electrified in 2050 (then largely biogas and solid biomass)
Industry

Residual emissions
◆ Improvement of industrial processes (development of low-carbon cement)
◆ Strong decrease in fluorinated gases (18 MtCO2 2015 to 2 MtCO2 in 2050)

Competitiveness
◆ Trade measures discussed (trade agreements, mention of border carbon adjustments)
◆ Support for low-carbon innovation
Industry

Consommation d'énergie finale de l'industrie dans l'AMS

Emissions du secteur industrie
Thank you for your attention
QUESTIONS ?