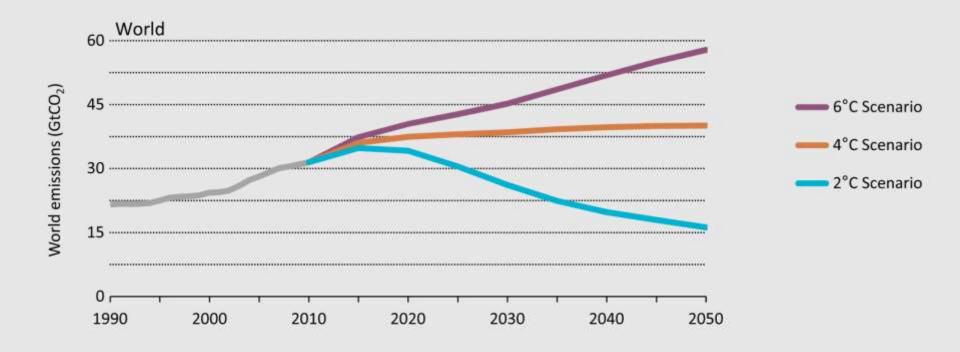
Nordic Energy Technology Perspectives

Pathways to a Carbon-Neutral Energy Future





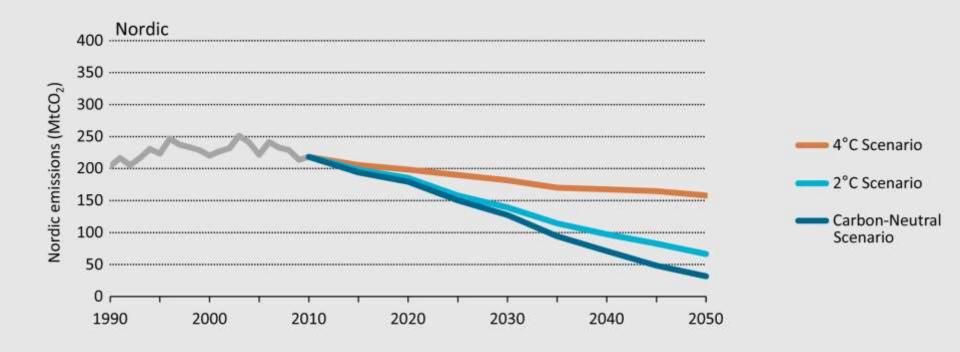
Global energy-related CO₂ emissions







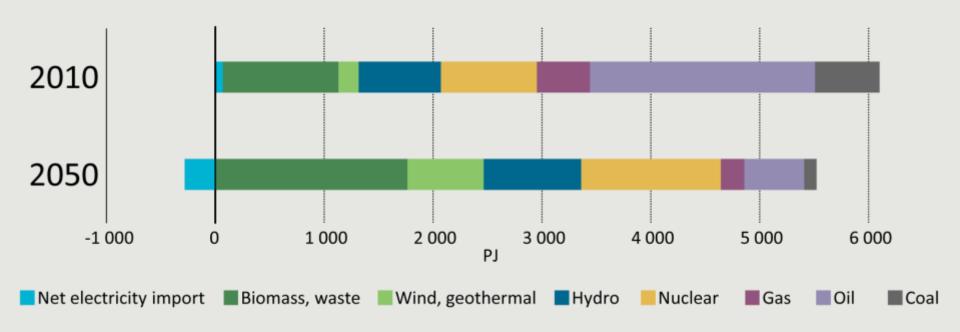
Nordic energy-related CO₂ emissions







Nordic total primary energy supply



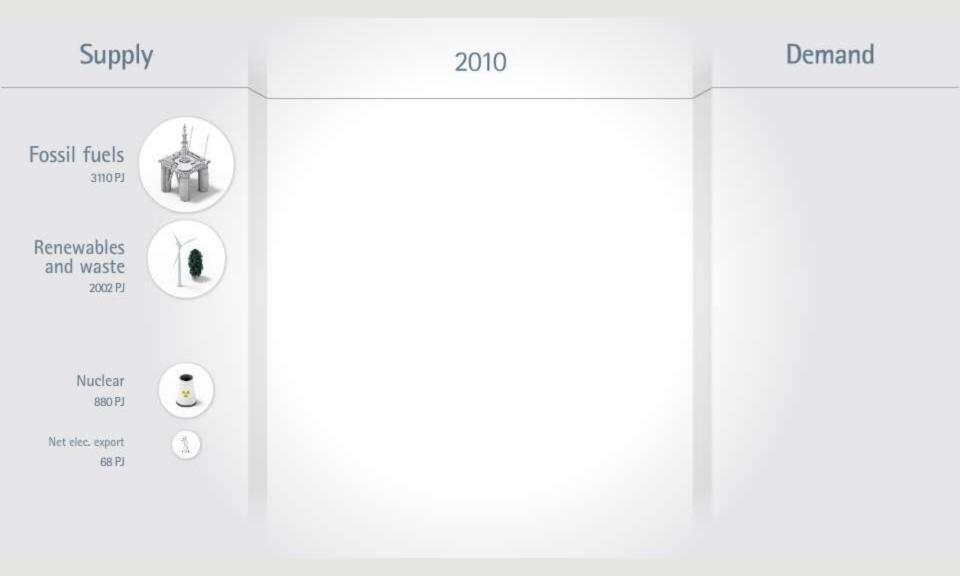






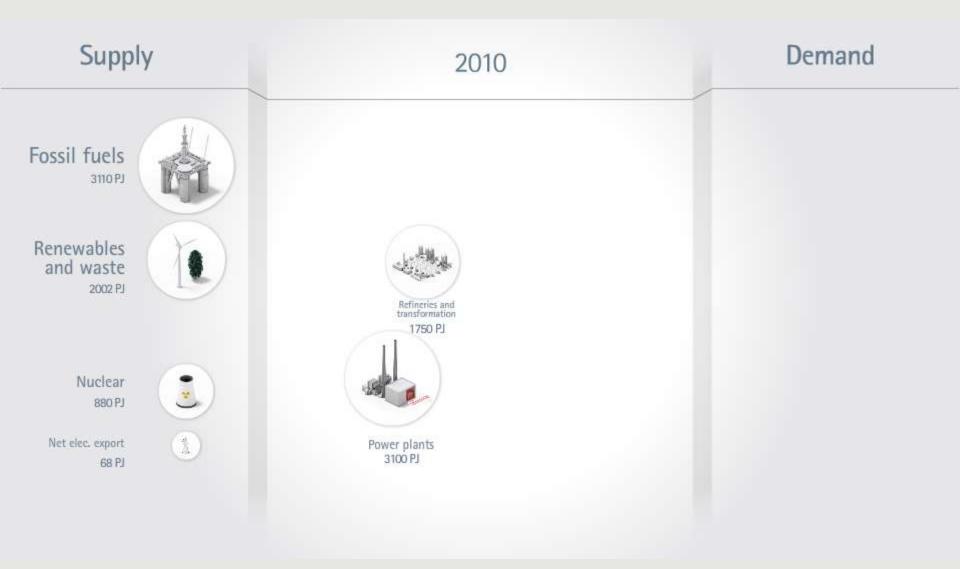






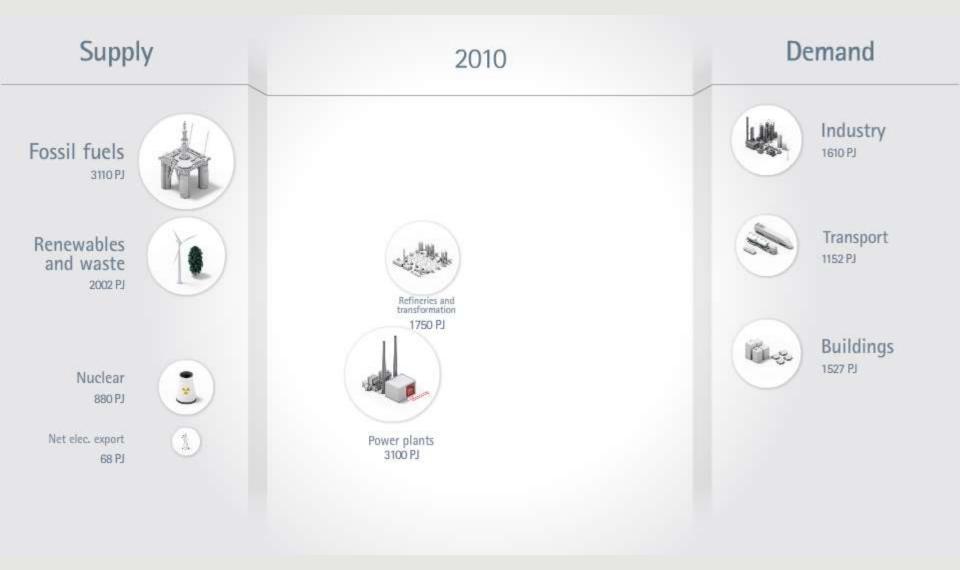






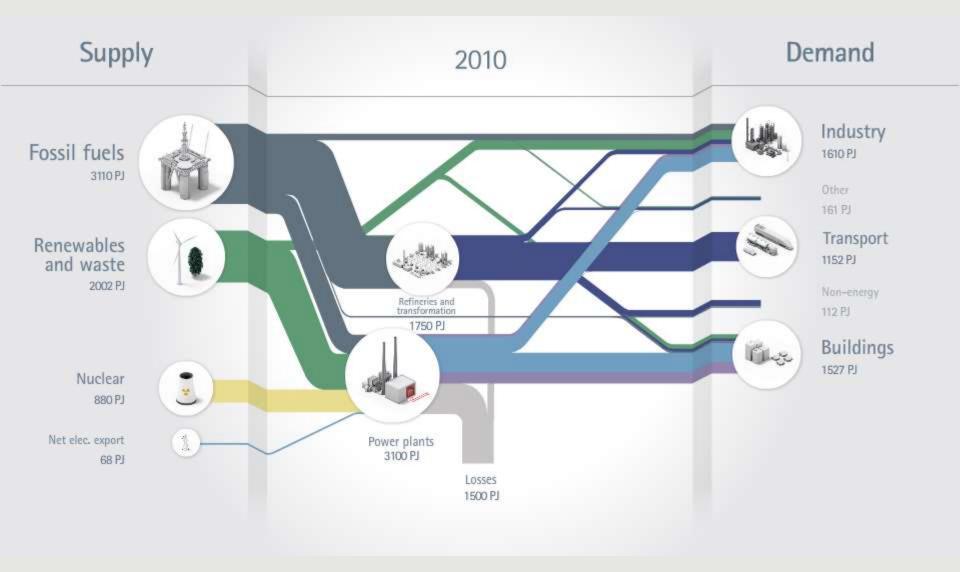






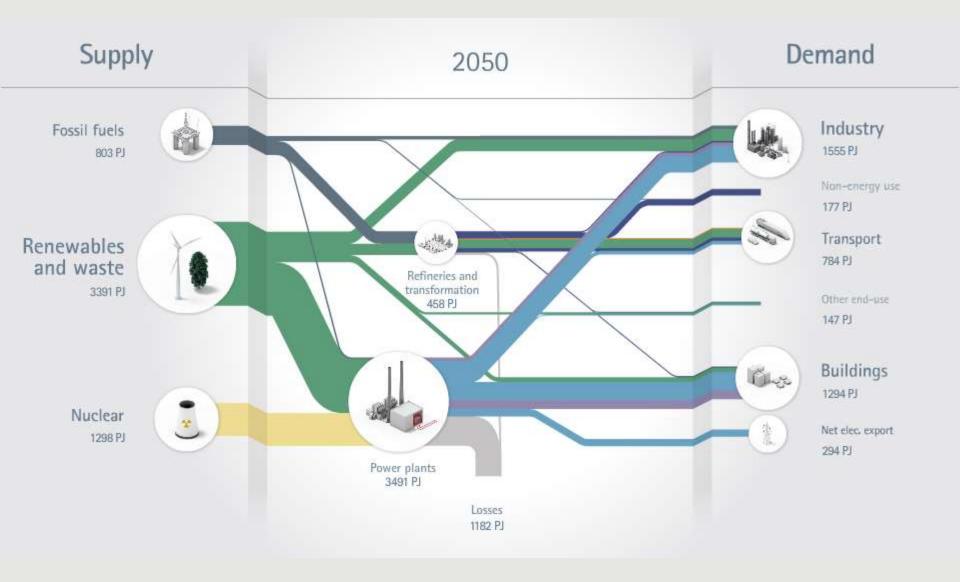








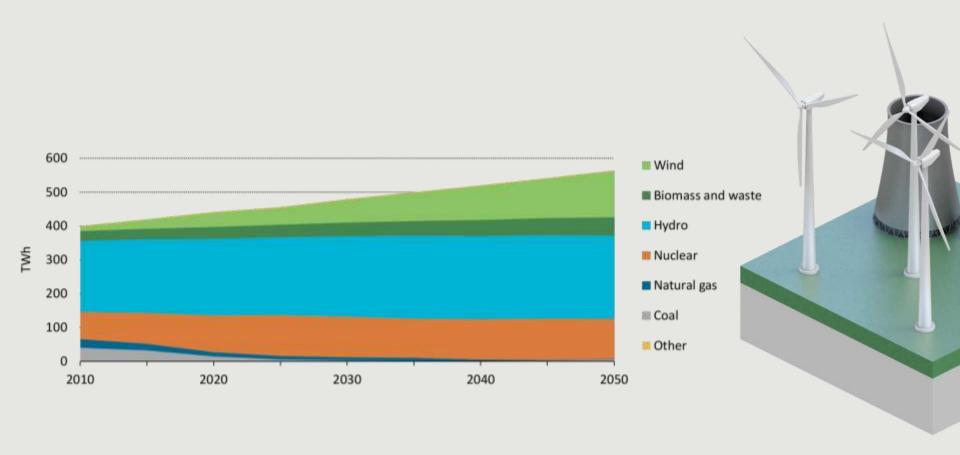






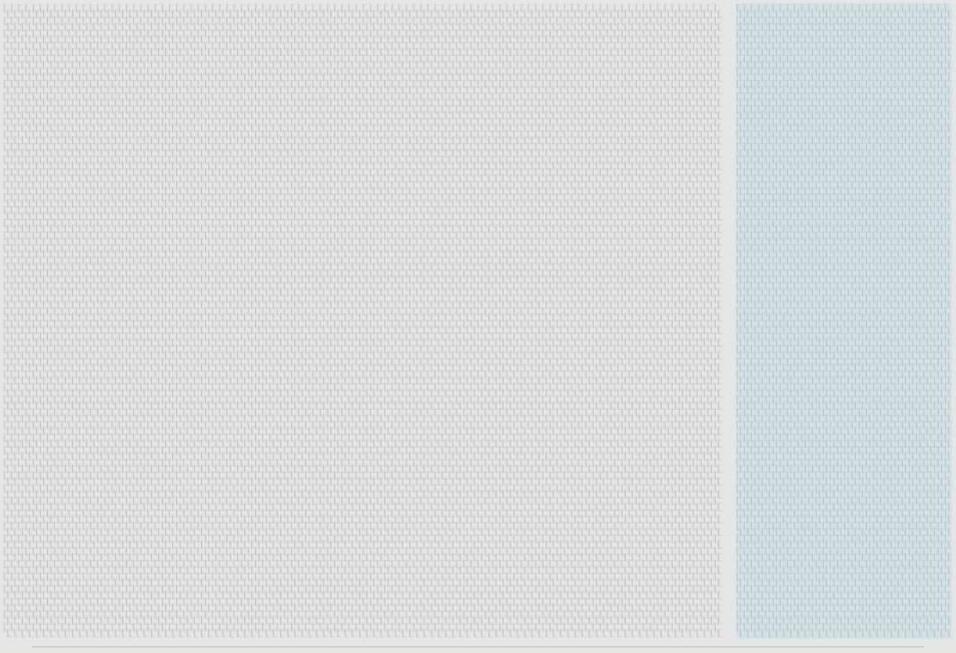


Nordic electricity generation





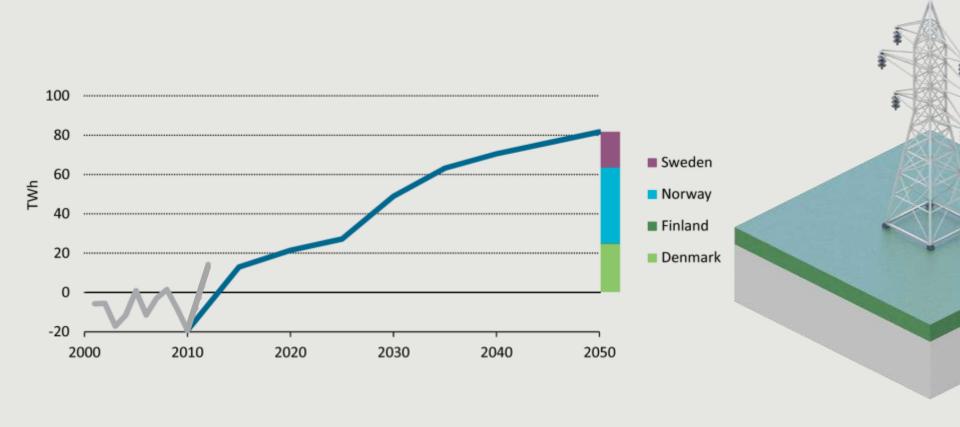








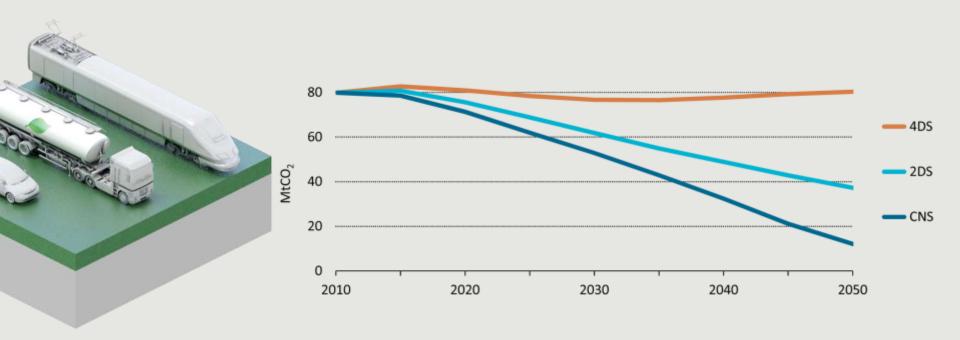
Nordic net electricity export







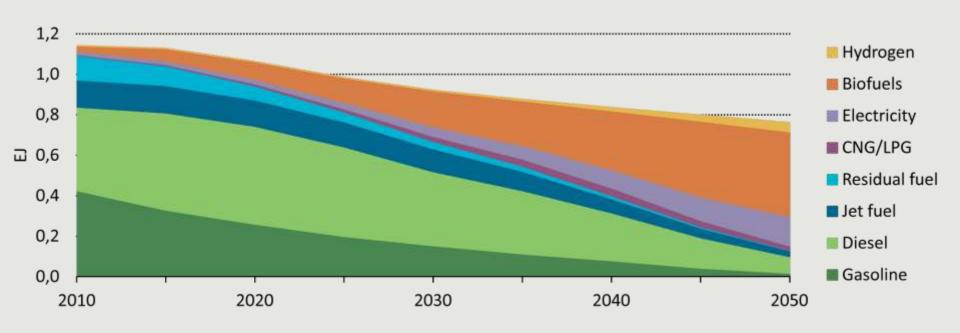
Nordic CO₂ emissions from transport







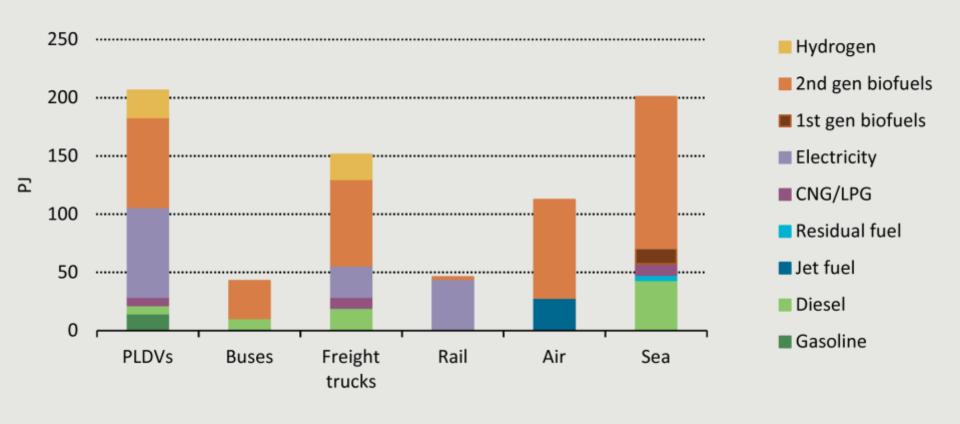
Nordic energy use in transport







2050 energy use in transport







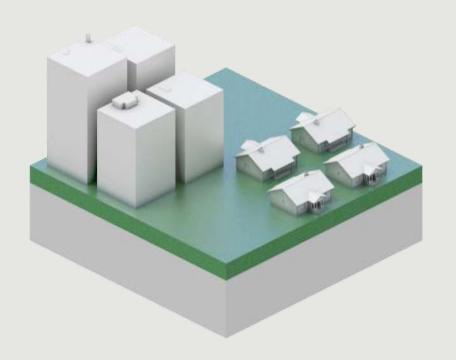
EV share of total Nordic car sales

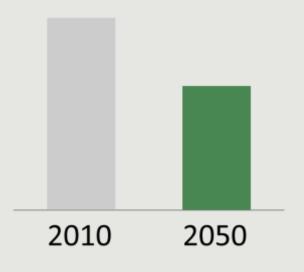






Buildings: Energy efficiency improvements



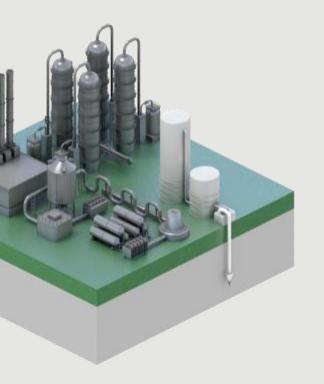


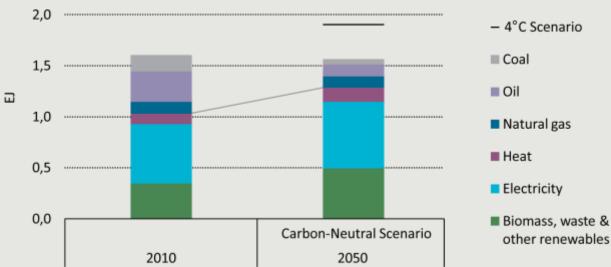
35% drop in residential energy use per m²





Final energy consumption in Nordic industry



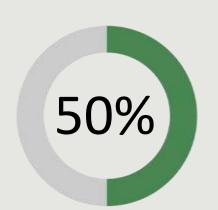




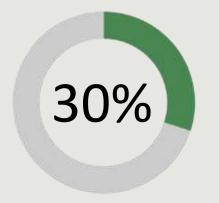


CCS utilisation in industry in 2050





of cement plants

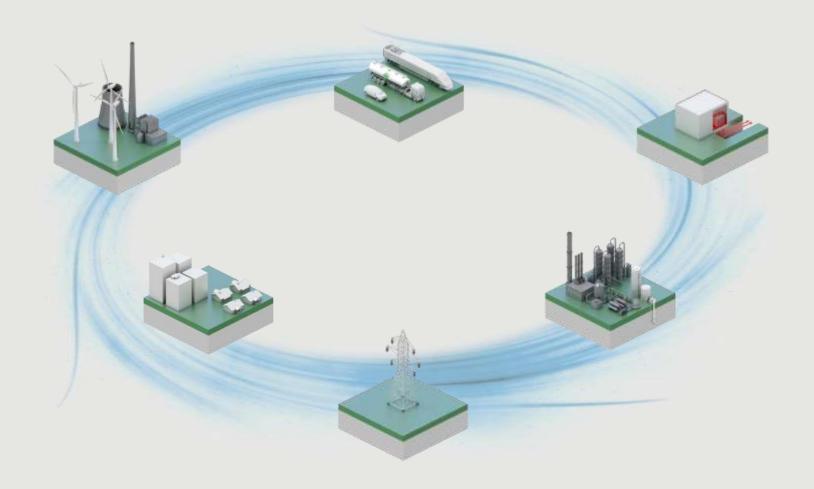


of iron & steel, chemical plants





System integration

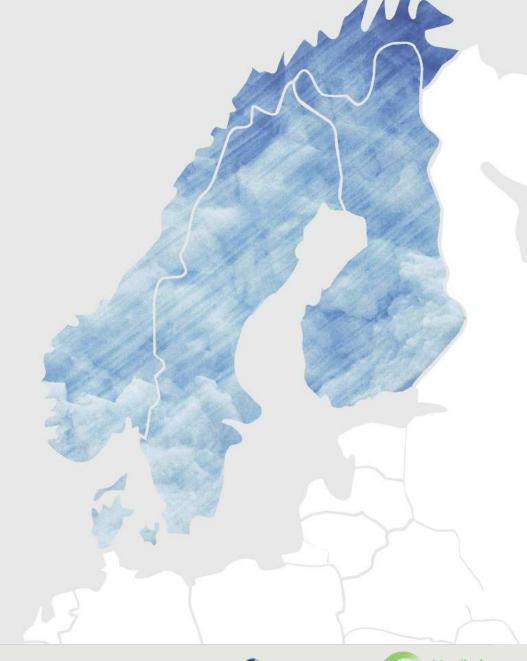








Nordic technology cooperation









Smartgrids

- Visibility and social acceptance
- Facilitator or stumbling block

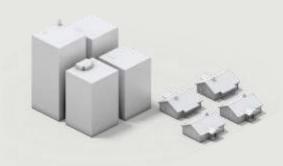


Bioenergy

- Net import sustainability
- Advanced biofuel RD&D



- Critical for industry
- Nordic cooperation



Buildings

- Energy efficiency renovation
- Integration with other sectors



Transport

- Modal shifts
- Technology ramp up



Industry

- Industrial ecology
- Integration with other sectors



