



STRATEGIC RESILIENCE INVESTMENTS: CATALYSING PRE-HYDROGEN ECONOMIC GROWTH

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Hydrogen
is freedom

H₂ cluster
FINLAND

Selected past initiatives to increase energy and resources resilience

Japan Resource
diplomacy
1970-1980s

China Belt &
Road Initiative
2013

U.S. Energy
Dominance Council
2025



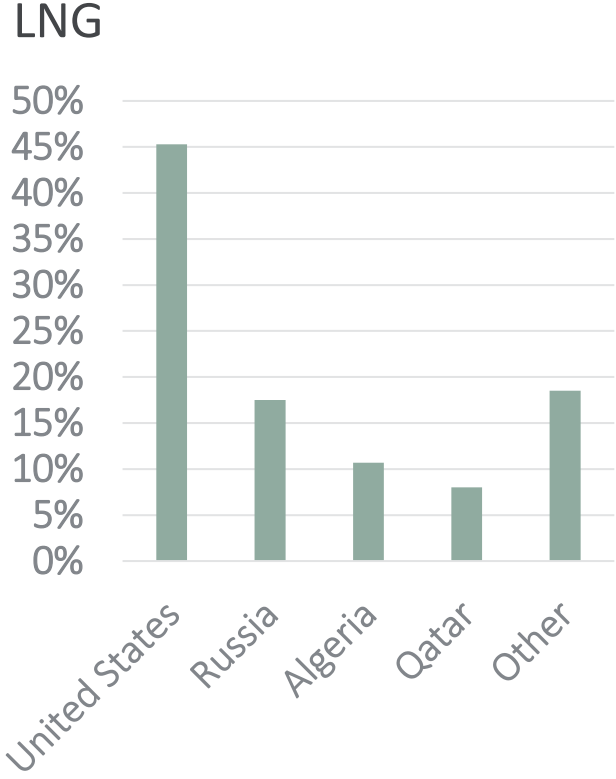
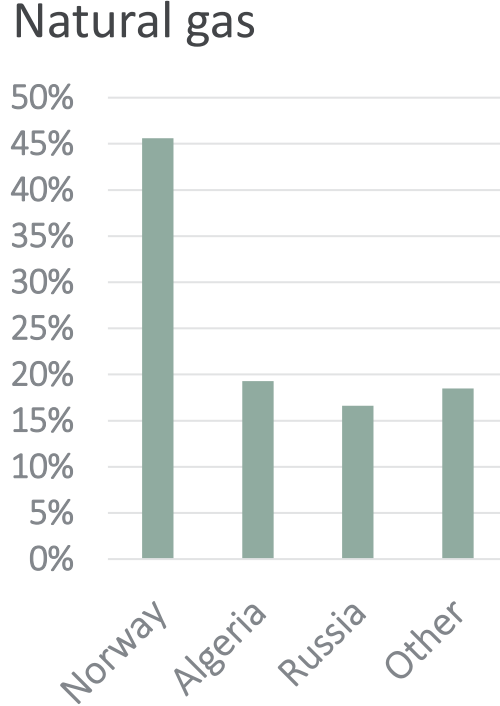
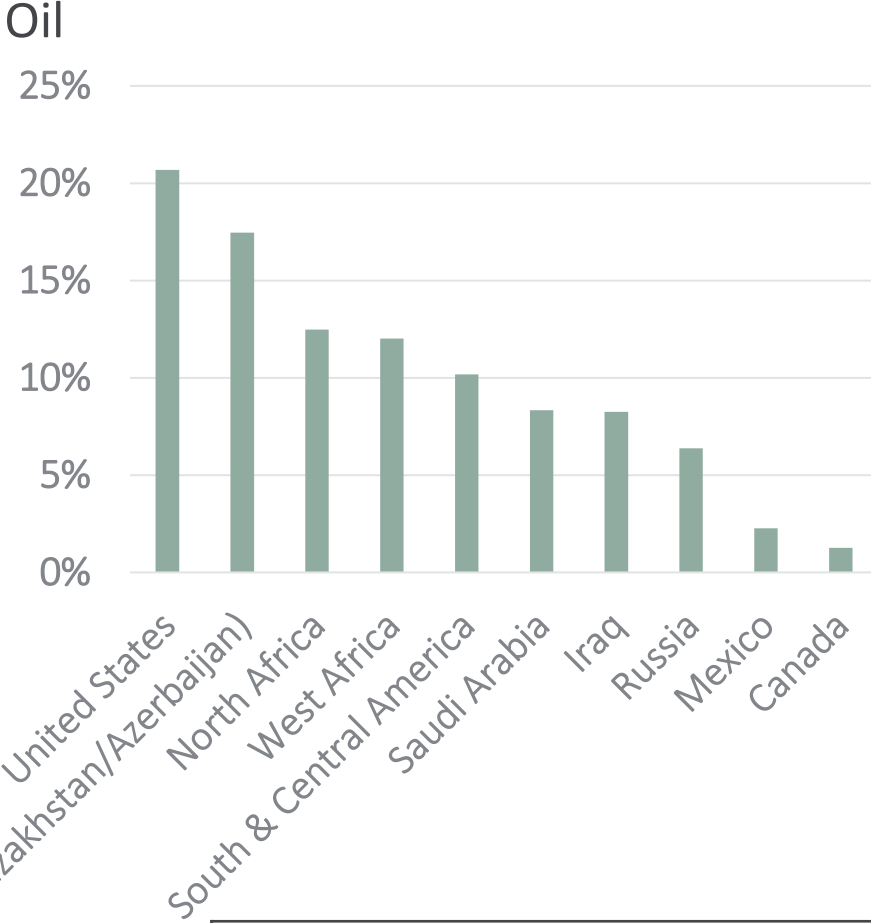
EUROPE'S ENERGY RESILIENCE – SELECTED HARD-TO-ABATE SECTORS



EU-27 energy imports and spend

- EU-27 has been importing 50-60 % of its energy
- Largely fossil fuels
- Total annual spend 375 bn €
 - (~ 2 % of GDP)

Majority of EU fossil energy imports exposed to long complex supply chains



Source: Eurostat: Imports of energy products to the EU (2024) and S&P Global approximations

State of play in decarbonization of hard to abate sectors

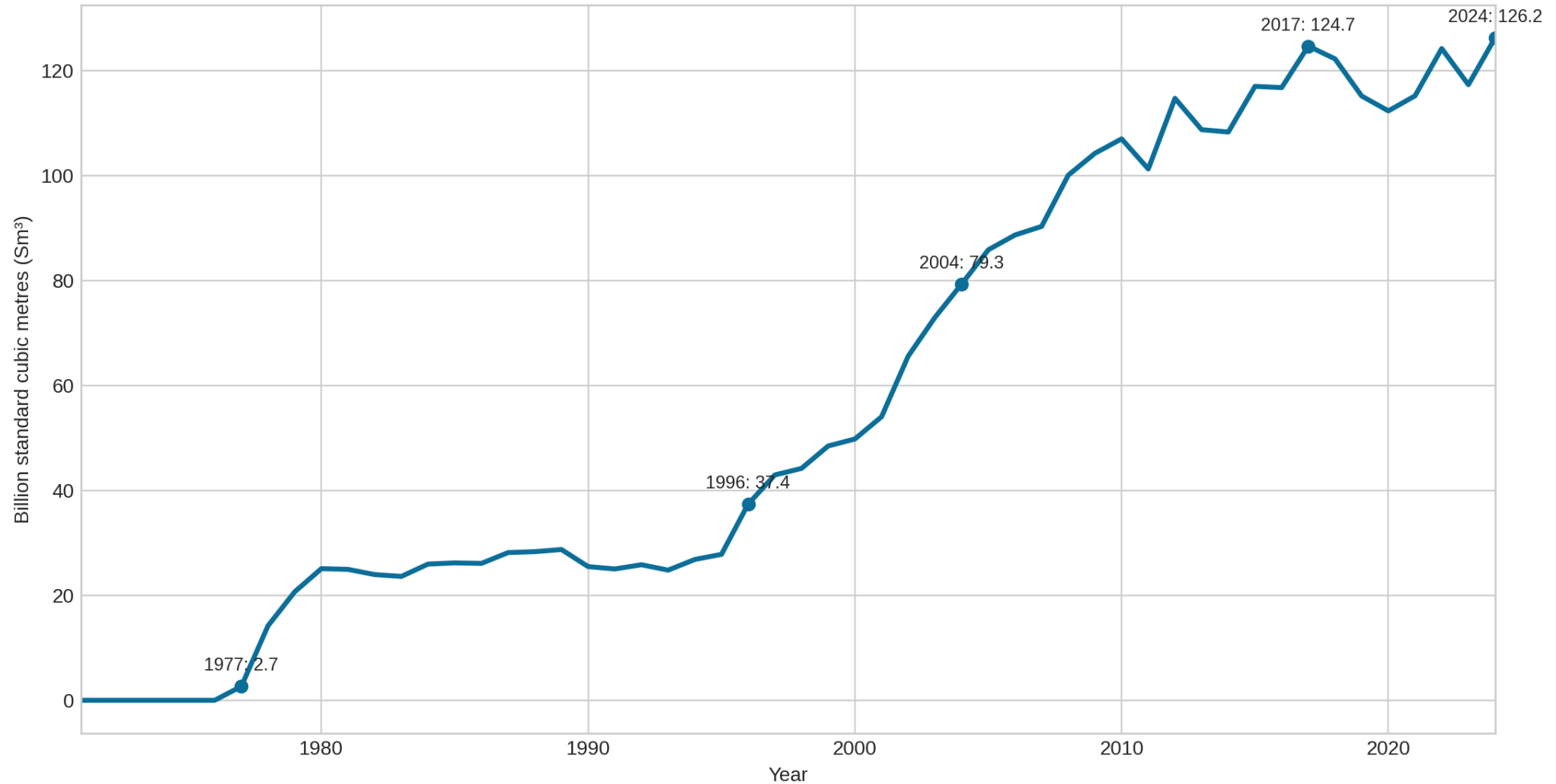


How to break the cycle of aspirations and form a cycle of impacts?



A STRATEGIC SHIFT IS POSSIBLE

Norway natural gas exports 1971-2024



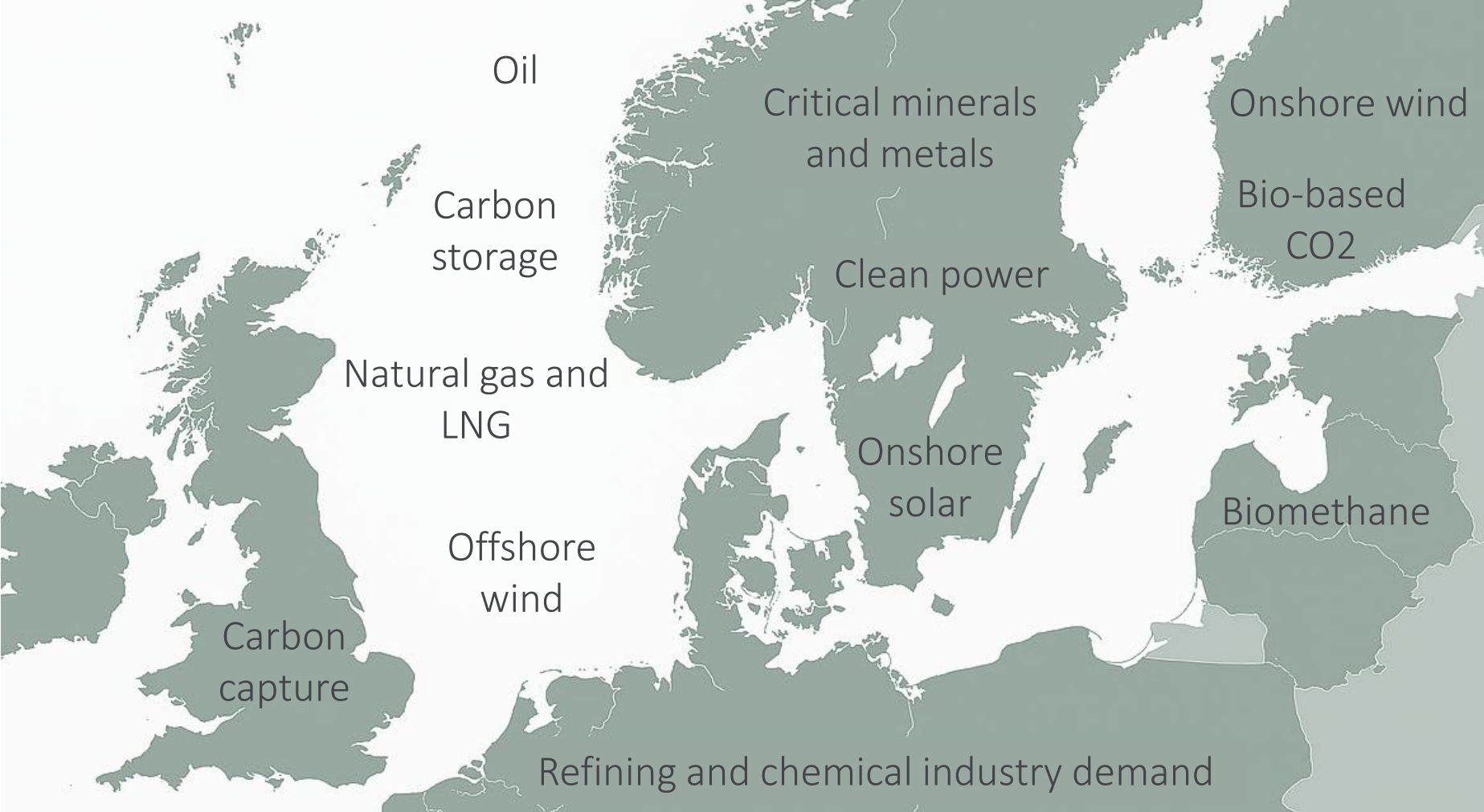
Norway natural gas exports (proxy: annual gas sales), 1971–2024

Source: Norwegian Offshore Directorate FactPages (Net gas, saleable). Nearly all Norwegian gas is exported (≈95% via pipelines, ≈5% as LNG).



HYDROGEN ECONOMY AS A SOURCE OF RESILIENCE

North Sea and Baltic Sea Regions are equipped for resilience



Hydrogen lead markets are key to resiliency

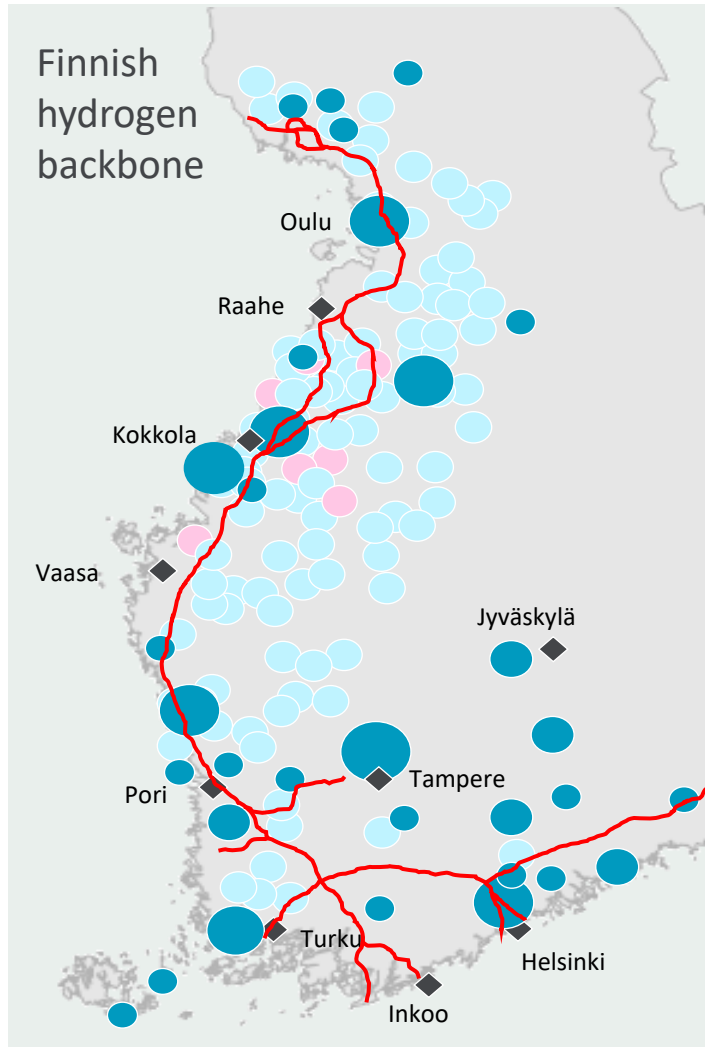


- Defence: fuels, materials, chemicals
- Public procurement: fuels, materials
- Health & safety: chemicals
- Food: chemicals
- Technologies: materials, chemicals

Approximated market sizes of selected EU-27 - examples:

- Defence sector energy demand (peace time):
~50 TWh / 7,5 bn € p.a. with 150 €/MWh
- Defence sector procurement 100-250 bn € p.a.

● RES projects ● H2 and derivative projects



Finland's Leading Sectors: Seizing New Opportunities

- 1.5 mtpa of H2 production potential indicated through Lols
- Front-runner P2X projects – fast track to key commodities creating resiliency
- Favourable economic and political environment to create win-win opportunities
- Opportunities for investments, offtakes, and partnerships across the ecosystem

Winning the global game

Fast track lead markets
offtake sub-sector by
sub-sector

Do it locally or
regionally – EU has
always developed
through lead initiatives

Cooperation

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