



Creating industries that matter

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Future-proof industries are based on renewable energy



The Innovation Park, Augsburg, Germany



Siemens Mobility

Hydro is pioneering the green aluminium transition, powered by renewable energy



How and where matters

40% of all aluminium produced in the EU/EEA is produced in Norway

-4.7 Million tons of CO₂ emissions have been cut through comprehensive climate policies in Norway 1990-2023

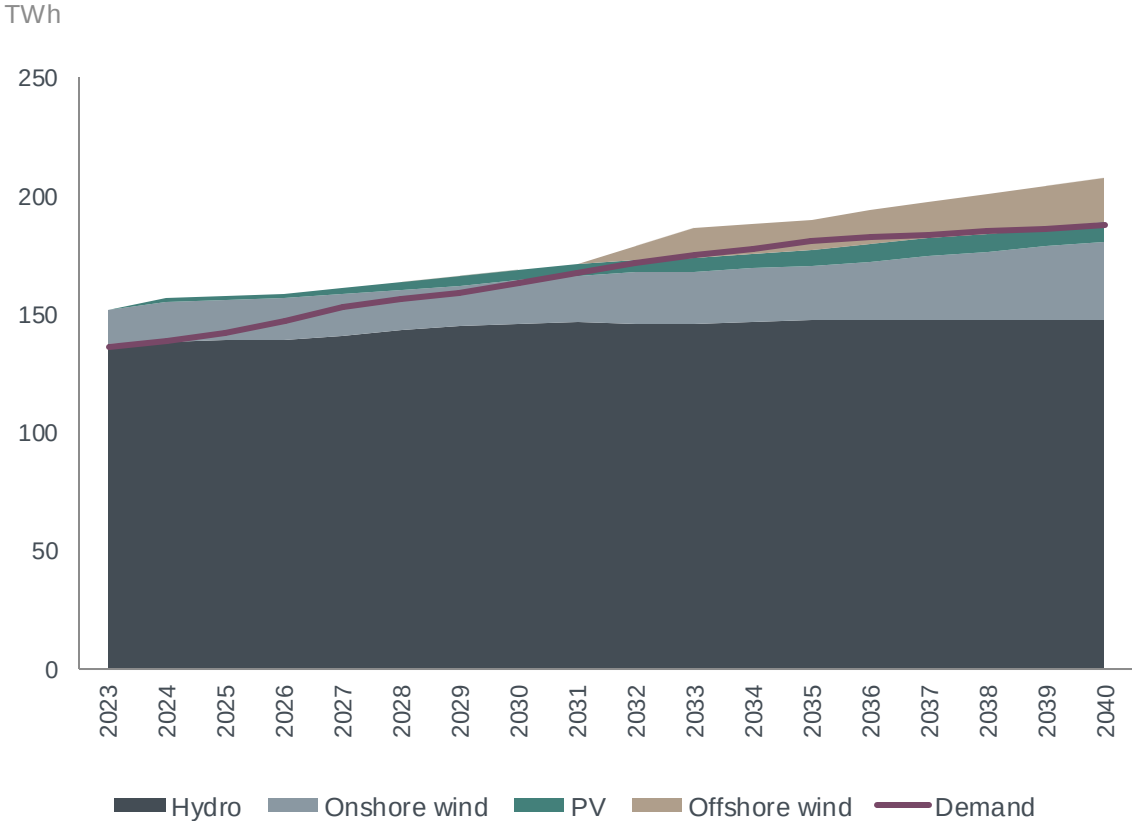
+ 5.2 Million tons of global CO₂ emissions increase if Hydro Sunndal was replaced with coal-based production

+ 16 Million tons of global CO₂ emissions increase if all Norwegian aluminium plants were replaced with coal-based production

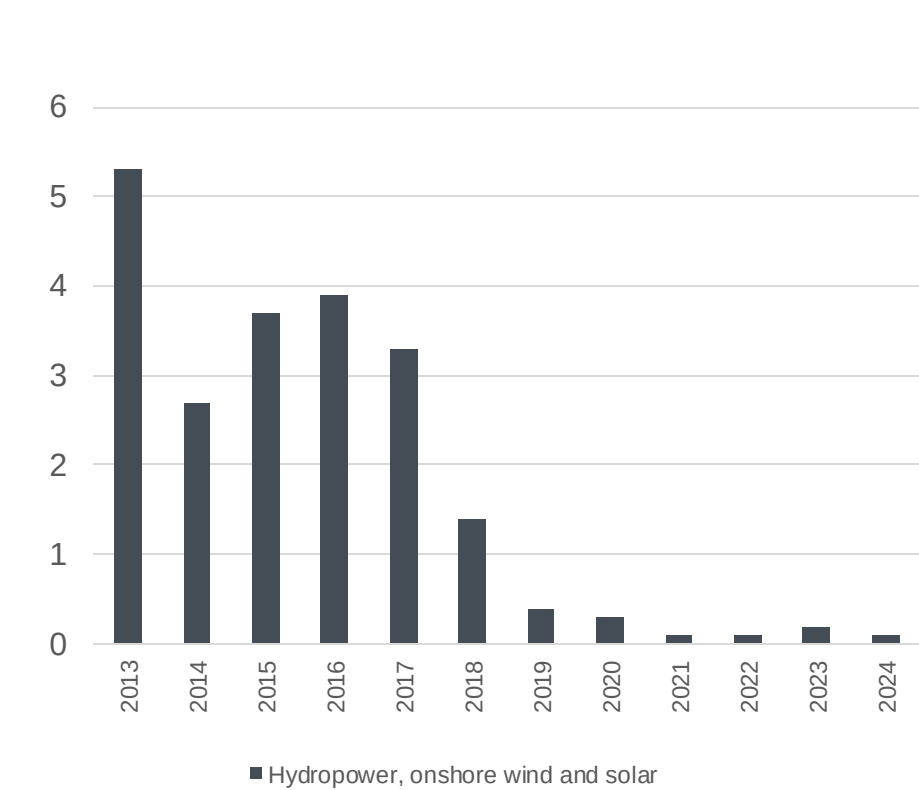
The big question: Should Norway aim to remain a leading industrial power?



Norwegian Power balance



New Power concessions Norway
TWh



Hydro's ambitions for power and industry development in Norway



Increased pace in decarbonization

Investments in new technology, energy efficiency, increased recycling



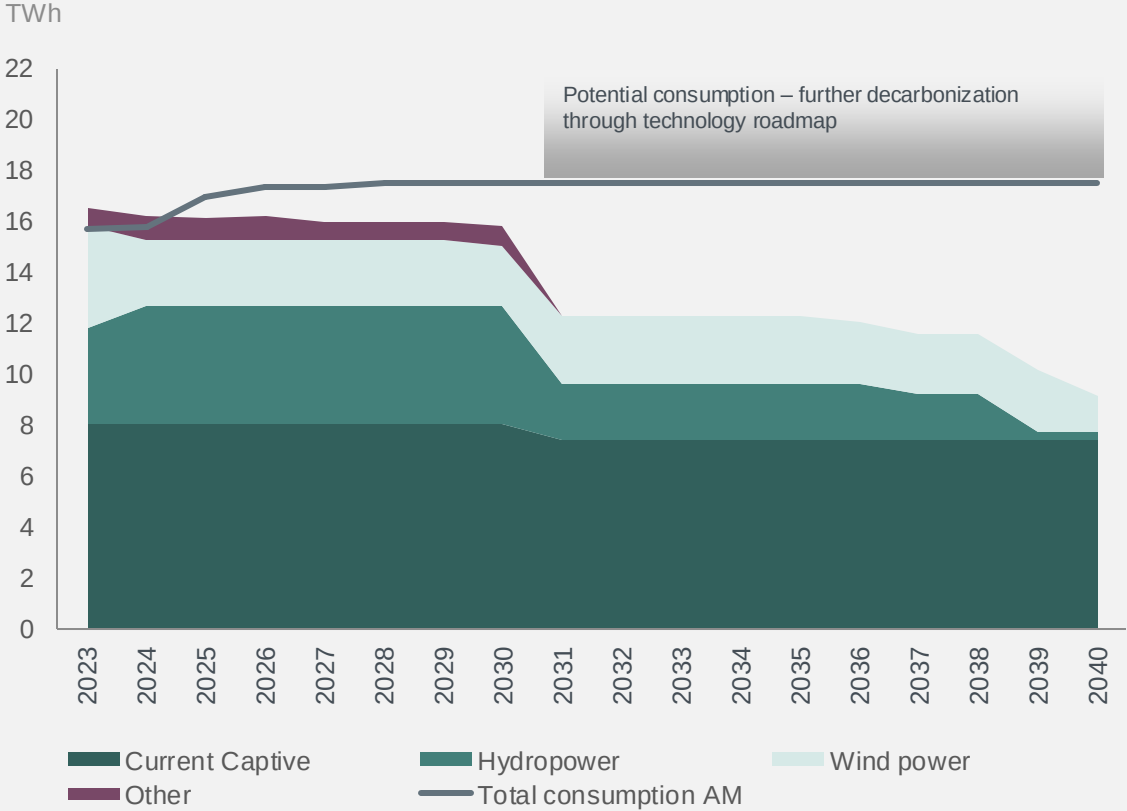
Increased pace in power development

19 hydropower and onshore wind projects, energy efficiency measures

Active sourcing agenda

Gap to fill from 2030

Sourcing to Hydro's Norwegian smelters*

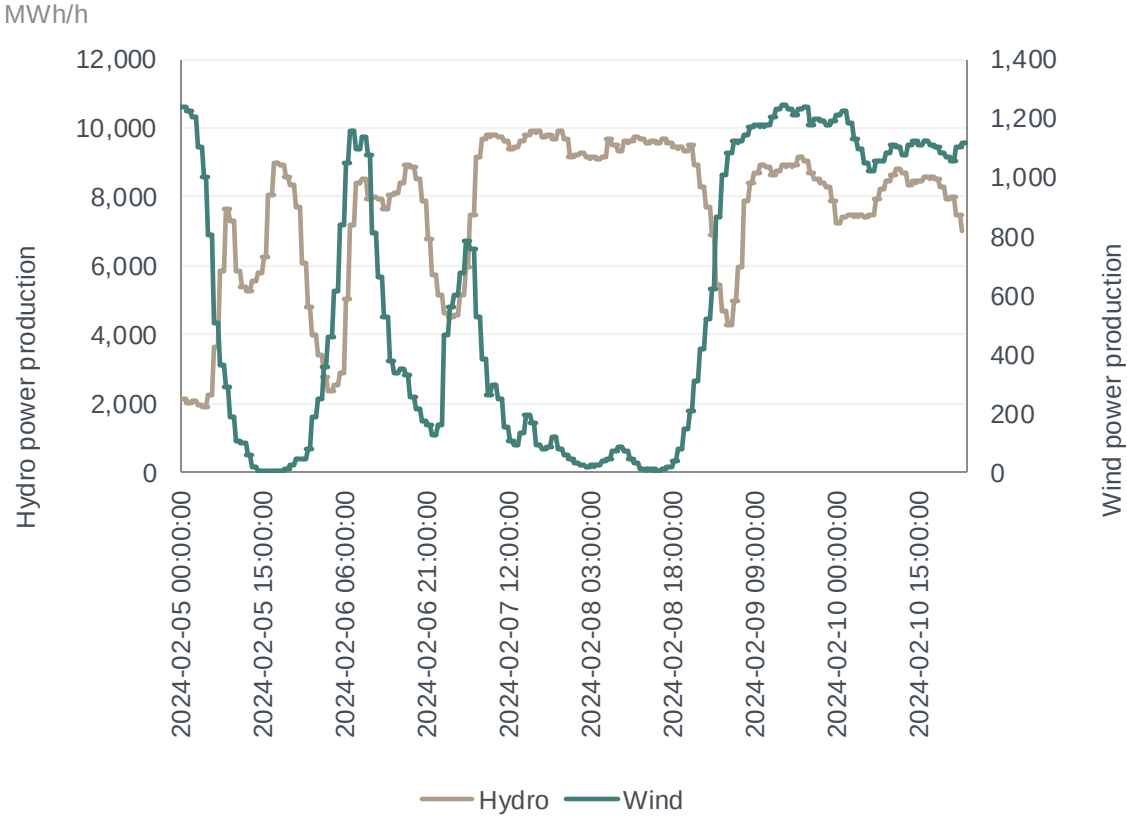


*App. 8 TWh equity power annually

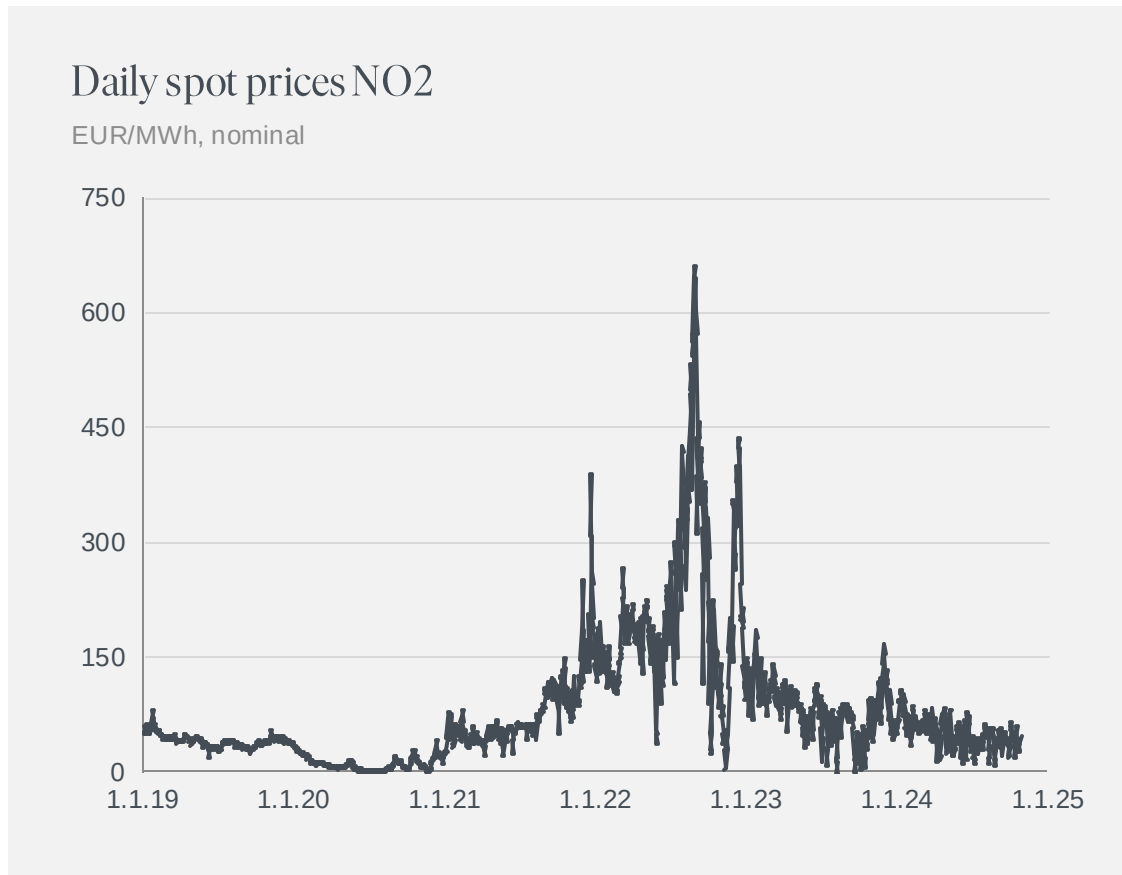


Wind and hydropower interplay is key in the future energy system

Hourly power production by source in price area NO2, Week 6 2024



Volatility increases the need and value of flexibility



Source: Nord Pool

Norwegian hydropower adds flexibility at lower costs than alternatives, with lower degree of cannibalization

Pumped storage hydropower: Opportunity to shift energy production between hours and seasons

Commercial opportunities analyzing, optimizing and acting on hydropower and onshore wind interplay



Several routes to secure power at competitive prices



Upgrading and expanding hydropower assets

Røldal-Suldal
Illvatn



Developing wind and solar projects including JVs

Wind power projects close to smelters
Hydro Rein JV



Sourcing from external suppliers

10 TWh long-term contract portfolio
Significant player in the PPA market



Powering the green aluminium transition

- 1** | Renewable power operations and energy management are at the core of Hydro's industrial activities across geographies
- 2** | Seizing attractive opportunities in developing flexible hydropower in Norway, as well as new onshore wind and solar projects in the Nordics and Brazil
- 3** | Capturing synergies between Hydro's Aluminium business, Hydro Energy and Hydro Rein





Hydro

Industries that matter