



**FME NTRANS**

**The energy crises**

**“Effects on the power market and the transformation of the power system”**

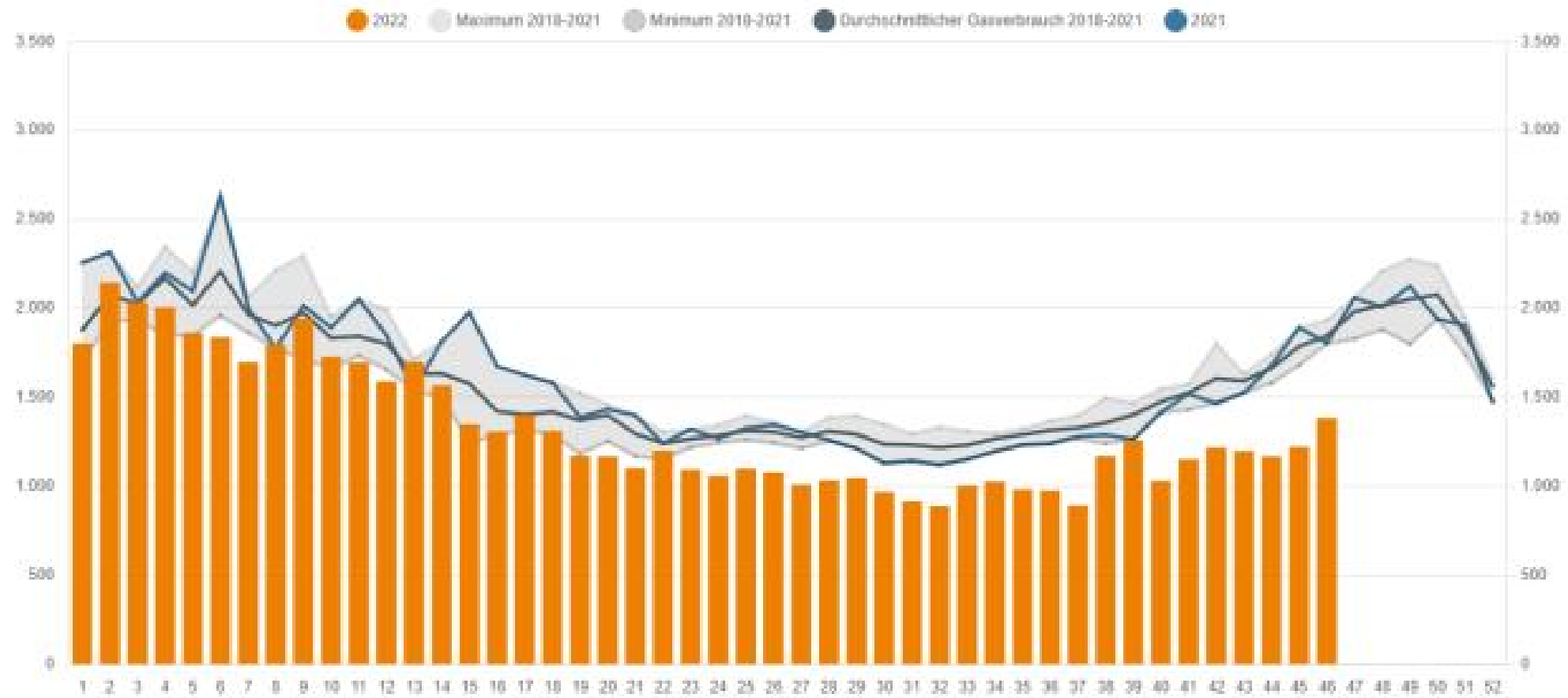
**Eviny Fornybar - Toril Christensen**

A photograph of Vladimir Putin sitting at a wooden desk in an office. He is wearing a dark suit, a white shirt, and a patterned tie. He is looking directly at the camera with a serious expression. Behind him are two Russian flags: the national flag on the left and the Presidential Standard on the right. On the desk in front of him are two yellow office telephones. The background wall is wood-paneled.

# Energy as a weapon Energy crises Consequences?

# Demand destruction

## 3.1 Gas consumption of industrial customers (weekly average) (GWh/day)



Tysk industri



# Power balance and power price

- NVE
  - Lower electricity prices with a strengthened power balance
- Statnett
  - Fear of weaker power balance
- NVE + Statnett
  - Weaker efficiency balance

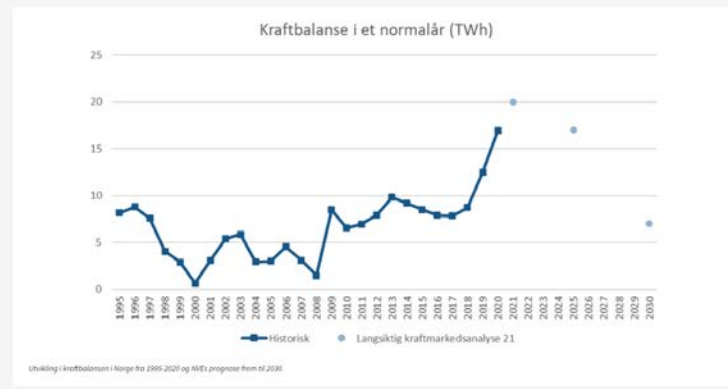


## Increased Consumption Results in a Negative Norwegian Energy Balance From 2027

The energy markets in Europe are in a very challenging situation, dominated by the war in Ukraine, high prices and limited supply. At the same time, Statnett's short-term market analysis for 2022-27 shows a significant expected increase in electricity consumption in the coming years, without a corresponding increase in power production. This means that Norway may have a net negative energy balance in 2027.

## Lavere kraftpriser med en styrket kraftbalanse

NVE har gjennomført en analyse av sammenhengen mellom kraftbalansen og kraftprisen i Sør-Norge for ulike værår. Vi finner en klar sammenheng mellom kraftbalanse og kraftpris.



## Norsk og nordisk effektbalanse fram mot 2030

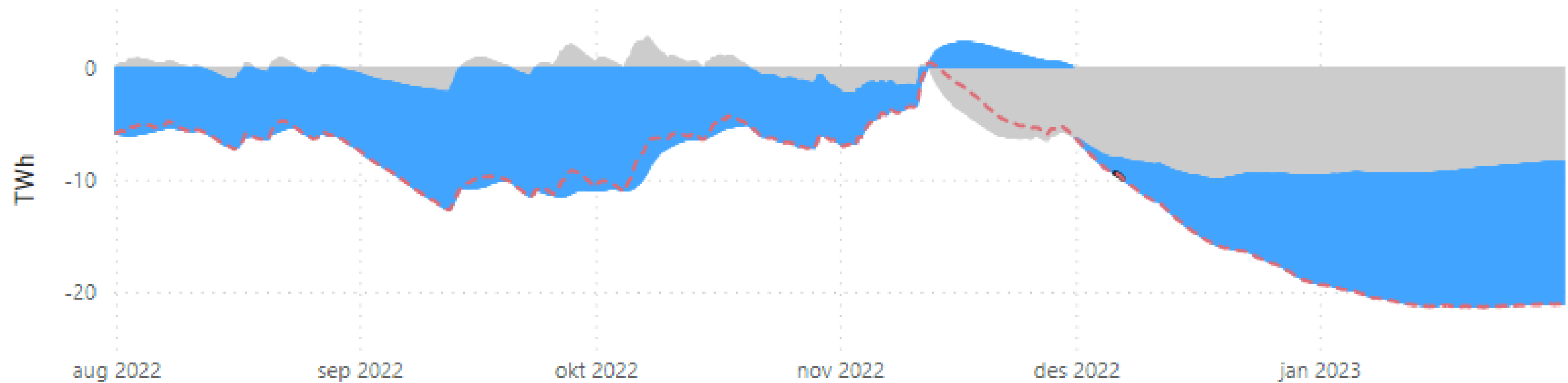
Magnus Buvik, Julien Cabrol, Dag Spilde, Ellen Skaansar, Aleksandra Roos, Åsa Grytli Tveten, Gerard Doorman (Statnett) og Ivar Daskeland (Statnett).



# More responsive hydrological balance

## Hydrologisk balanse

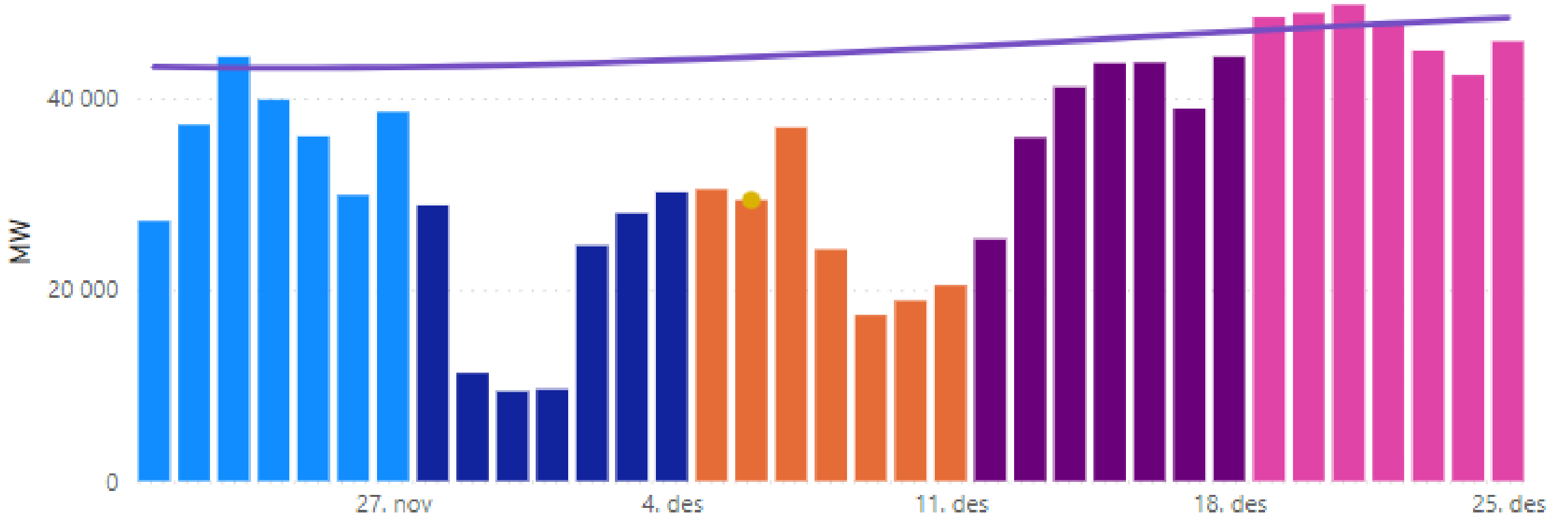
● Snø/grunn ● Vann ● Hydbal idag ● Hydbal



# Challenges with simultaneous lack of windpower

Vindkraftproduksjon, MW

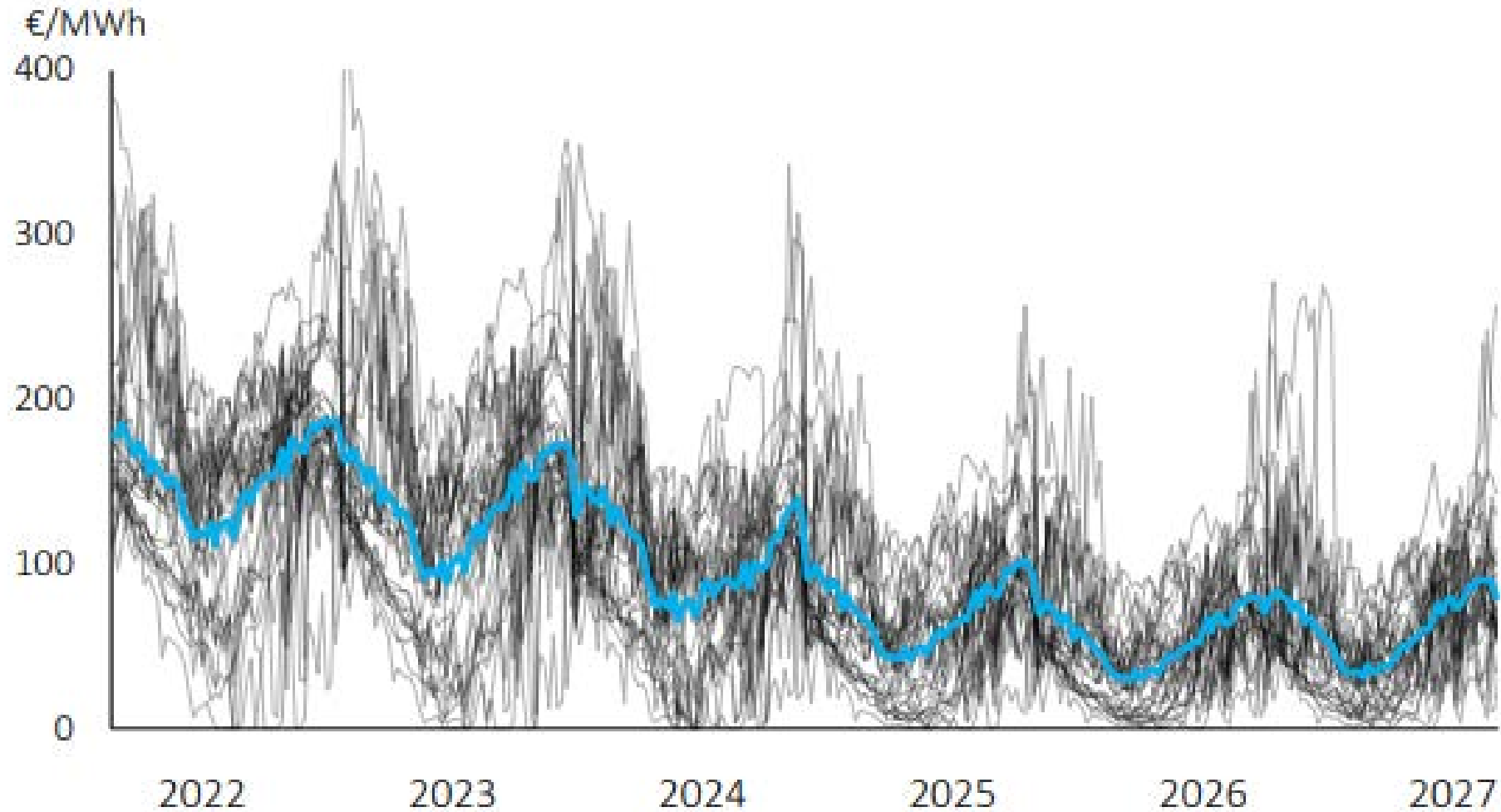
Uke ● 47 ● 48 ● 49 ● 50 ● 51 ● vind normal ● vind idag





# Increased volatility from increased weather dependancy

Simulert årlig sørnorsk snittpris mot 2027, med utfallsrom for vær





**Thank you for your attention!**