



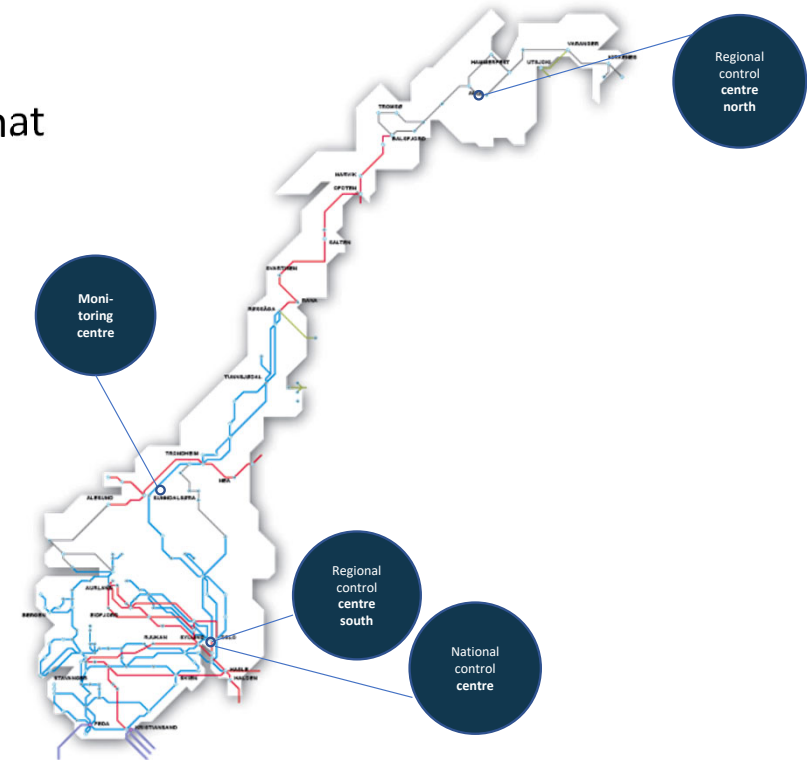
Facilitating Decarbonization

– Objective and Efficient Processing of Capacity Applications

15 November 2023, H2 Value Chain Conference, Halvor Lie, Customer and Grid connection

Statnett

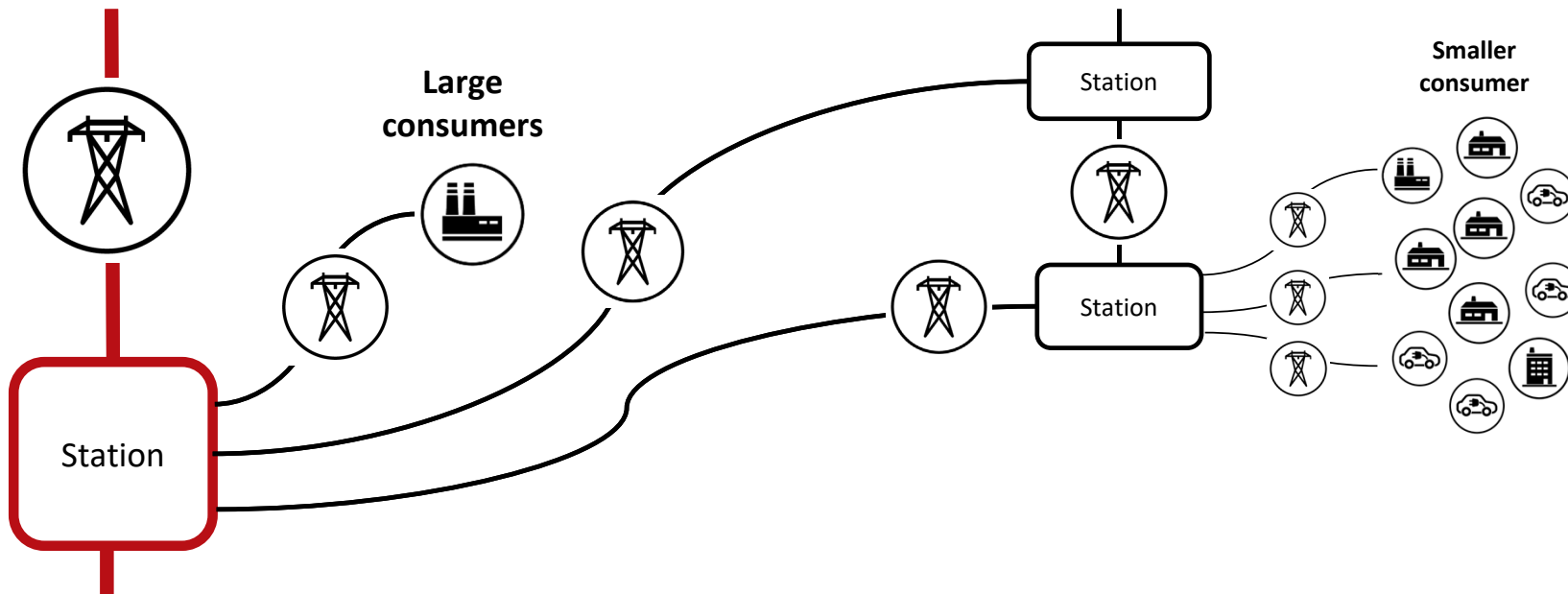
- The **one** transmission system operator (TSO) in Norway that operates:
 - **11,500** km of high-voltage power lines
 - **2,500** km of subsea and land cables
 - **170** substations
- National and Regional Control Centres with **continuously monitoring** to ensure stable power supply
- Responsible for **interconnectors** to Germany, United Kingdom, Denmark, Sweden, Finland, Denmark and the Netherlands



Grid structure in Norway – all marked players connected

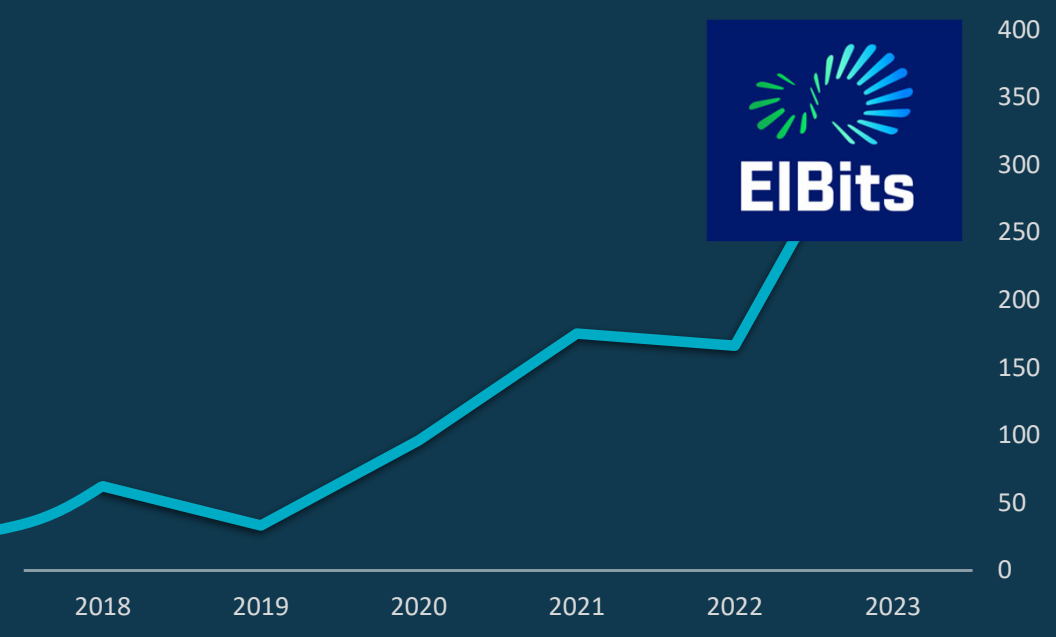
Statnett TSO

Regional DSO



Dramatic increase in demand

INQUIRIES received year by year*

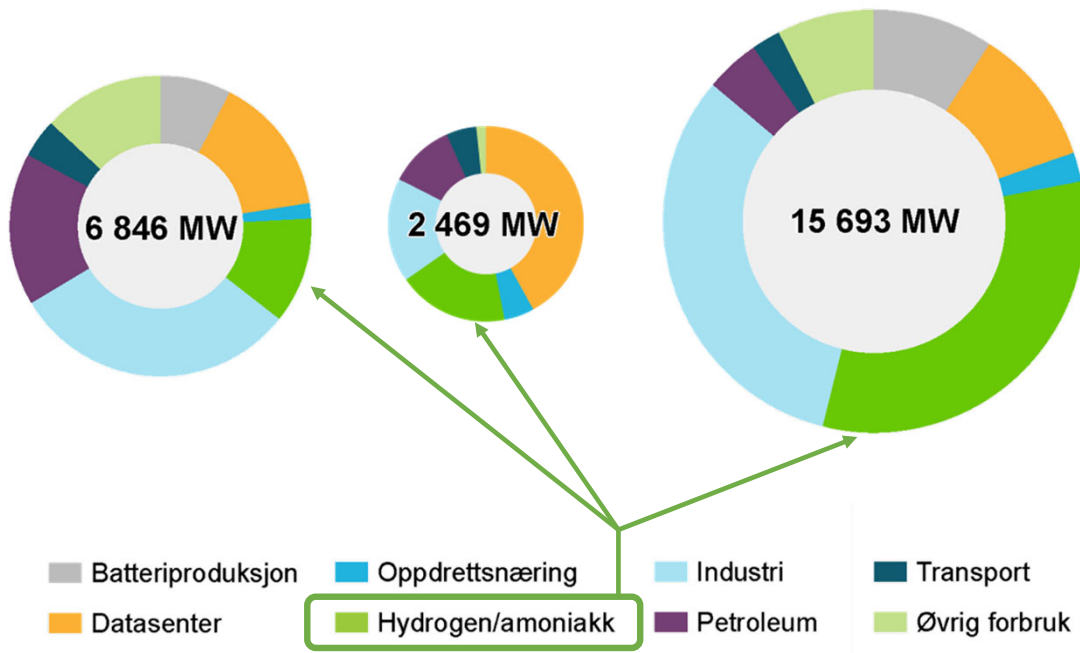


Capacity to the hydrogen industry

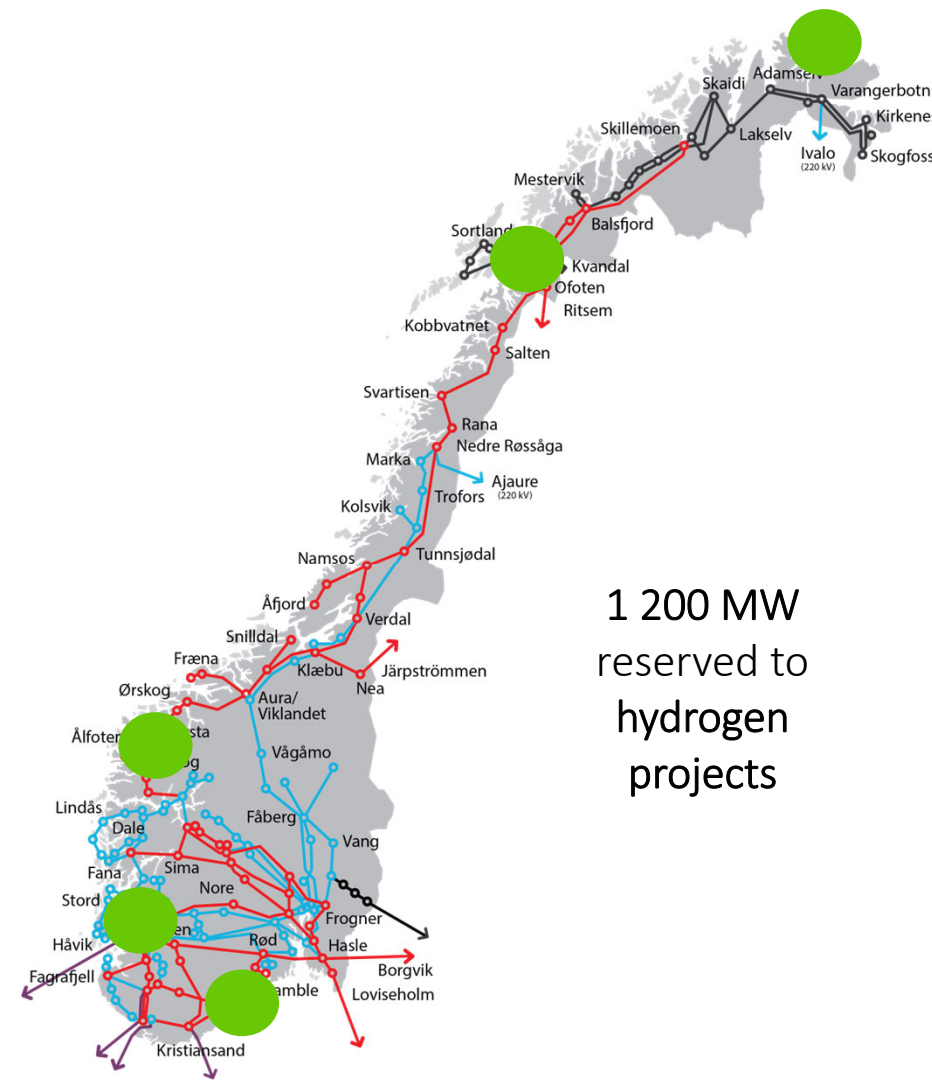
Reserved capacity

Capacity que

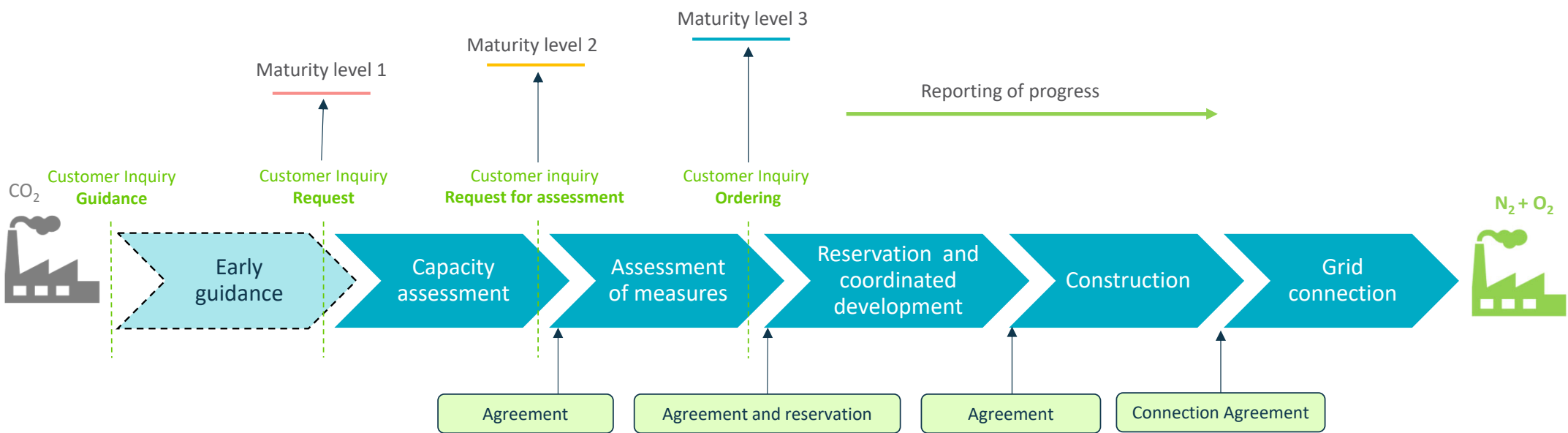
Other active project plans



numbers pr. oct. 23

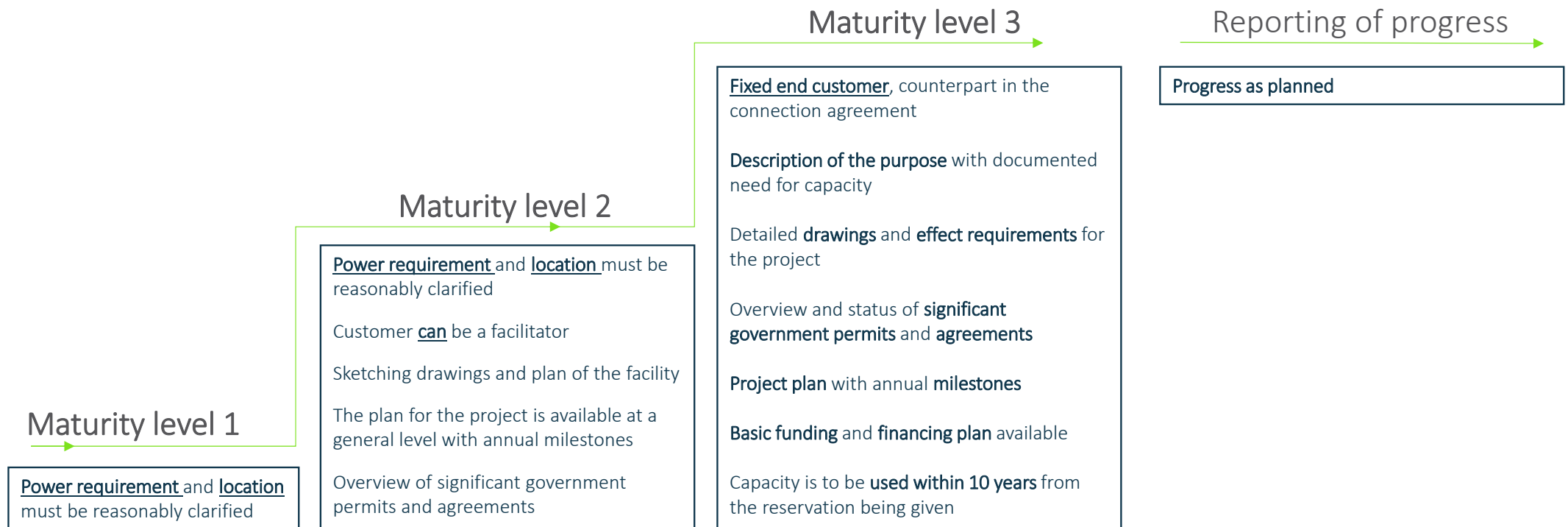


The Grid Connection Process



Details available at Statnett.no: [Tilgang til strømnettet / Statnett](#)

Increasing requirements for maturity towards reservation

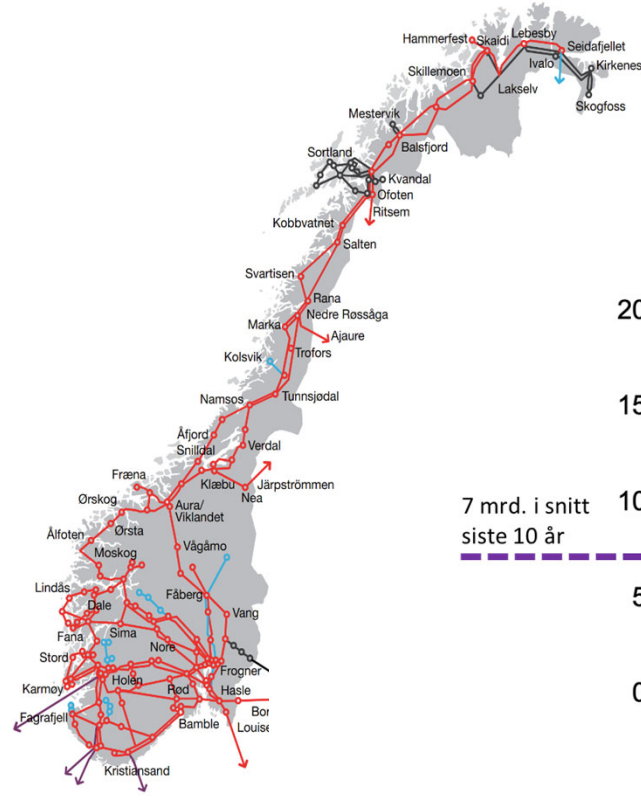


420 kV 300 kV 132 kV

Mellomlandsforbindelse HVDC

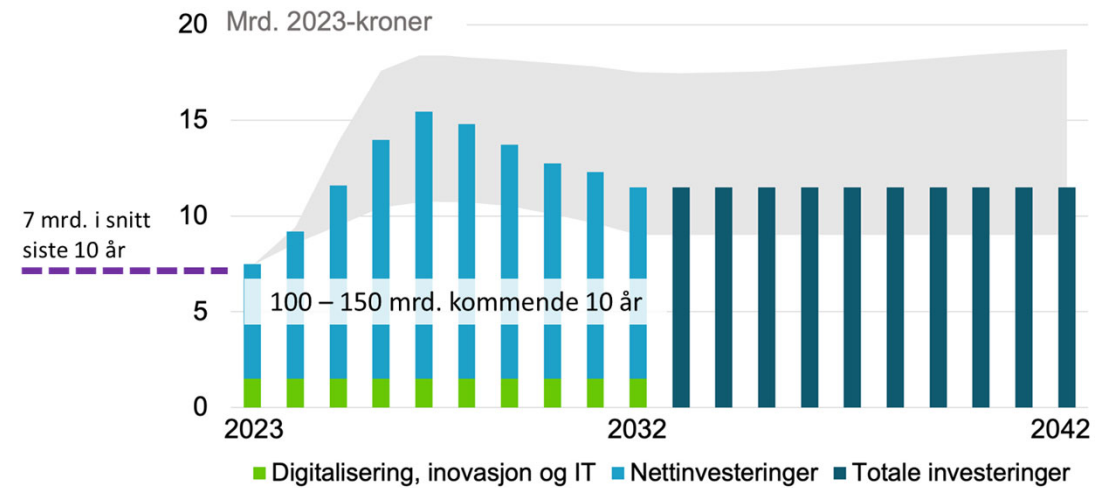


Today's grid



Target grid 2040

Building more grid, faster!
Twice the investment scope





Statnett

Systemutviklingsplan 2023

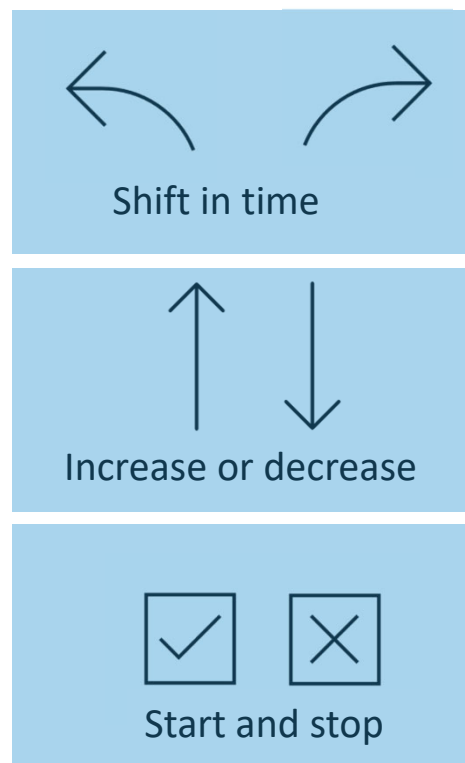
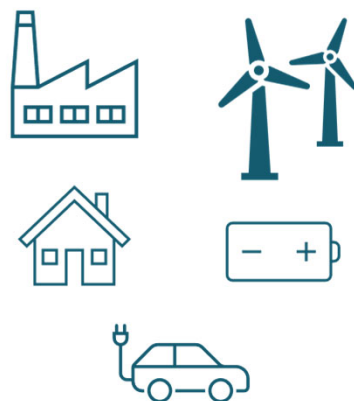
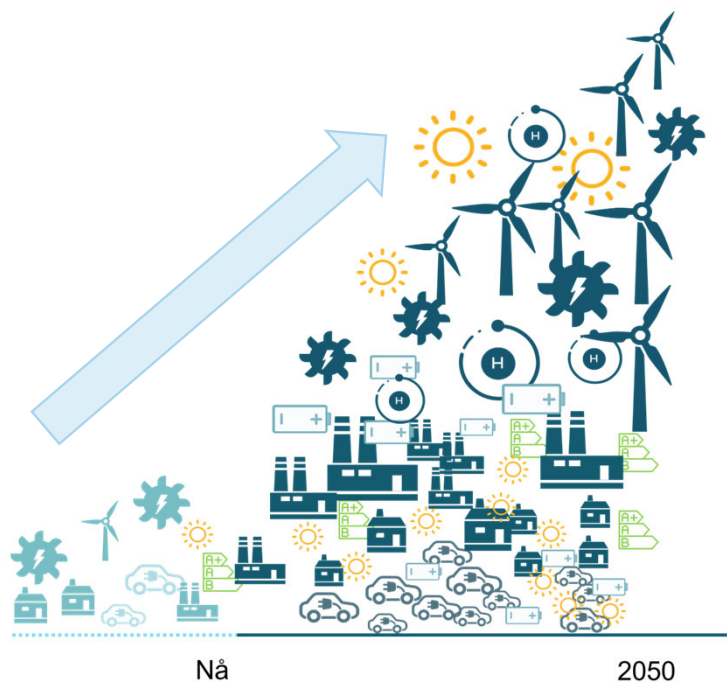
We will do our part of the job

1. Mer nett raskere
2. Økt kapasitet til kundene
3. Høyere utnyttelse av dagens kraftsystem
4. Automatisert systemdrift
5. Stabilitet i et kraftsystem i endring
6. Tilrettelegging for havvind

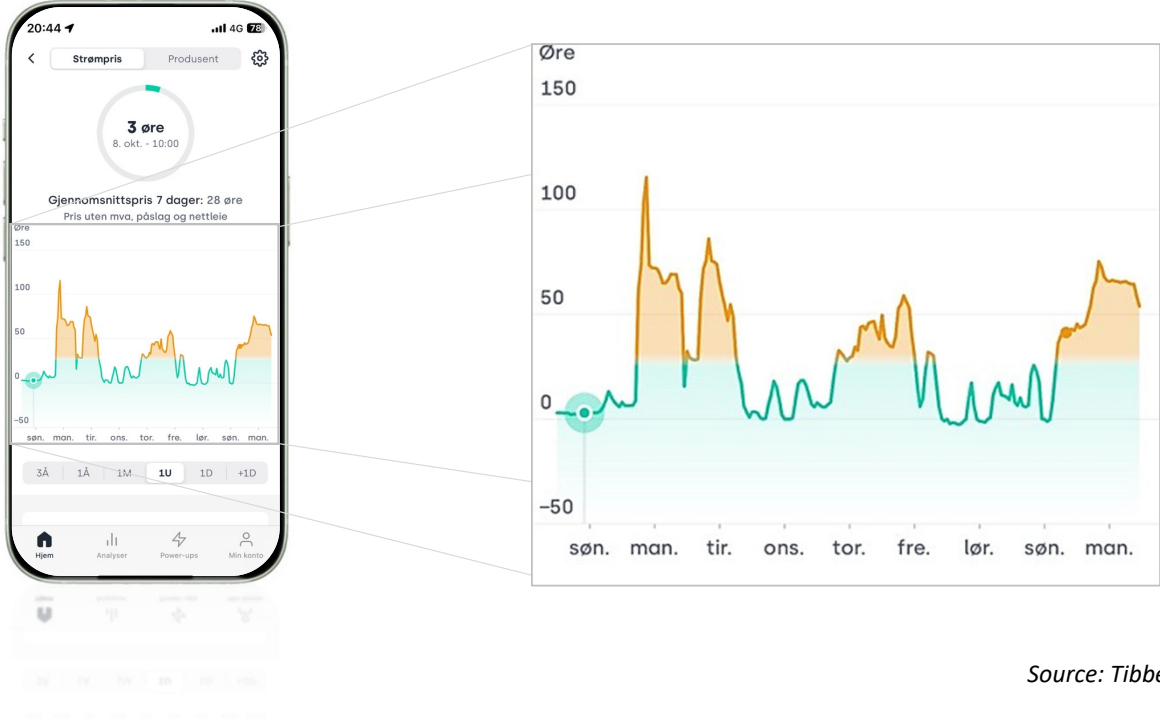
Everyone must contribute

7. Myndighetene må gi tydelig retning og gode rammer
8. Norge trenger mer kraftproduksjon
9. Mer av forbruket må bli fleksibelt
10. Kraftmarkedet gir viktige signaler

The need for flexibility and flexible market players is increasing



The power market is giving important signals



Source: Tibber

Statnett
Flexibilitet som kilde til verdiskaping og forretningsutvikling

September 2023

Thank you

1. Reservation to projects **first in line** with **sufficiently matured project**.
2. Uphold of reservation requires **progress**
3. Understand the power situation and build in as much **flexibility** as possible into the design of your industry plant

The screenshot shows the Statnett website with a navigation bar at the top containing the Statnett logo, a menu icon, 'SISTE NYTT' with a lightning bolt icon, and a search bar with 'SØK' and a magnifying glass icon. Below the navigation bar is a sub-header 'For allene i kraftbransjen / Nettpasietet til produksjon og forbruk'. The main heading is 'How to connect to the powergrid'. The content is organized into two columns. The left column lists six regional connection responsibilities, each with a small portrait photo of the responsible person. The right column provides the name and contact information (email and phone number) for each person. The contact information is underlined. The names of the contact persons are also listed vertically on the far right of the page.

Region	Contact Person	Email	Phone
Tilknytningsansvarlig Finnmark og Troms	Lars Erik Johansen	lars.erik.johansen@statnett.no	+47 23 90 34 41
Tilknytningsansvarlig Nordland	Ingvild Grøtterud Birkeland	ingvild.birkeland@statnett.no	+47 23 90 20 34
Tilknytningsansvarlig Trøndelag, Nordmøre og Romsdal	Christopher Aarnseth Ruud	christopher.ruud@statnett.no	+47 23 90 20 07
Tilknytningsansvarlig Sunnmøre, Sogn og Fjordane og Indre Sogn	Hans Olav Ween	hans.ween@statnett.no	+47 23 90 38 68
Tilknytningsansvarlig Rogaland, Haugalandet, Vestland til Sognefjorden	Runar Moseby	runar.moseby@statnett.no	+47 23 90 36 07
Tilknytningsansvarlig Agder, Indre Østlandet (Telemark, Vestfold, tidligere Buskerud)	Geir Kåsa	geir.kasa@statnett.no	+47 23 90 45 46
Tilknytningsansvarlig Øst (Oslo, Innlandet og tidligere Akershus og Østfold)	Heidi Hellesvik Ringstad	heidi.ringstad@statnett.no	+47 23 90 20 62