



NORDIC TSOS

Initiatives to increase transparency

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COMMON NORDIC REPORTS

The Nordic TSOs prepare several common Nordic reports, such as:

- Principles for determining the transfer capacities
- Quarterly capacity calculation reports



DATA

Data relating to the operation of the Nordic market and grid is available at Nord Pool, such as:

- Capacity reduction codes
 - UMMs



STAKEHOLDER INVOLVEMENT

Each TSO has several platforms and forums for stakeholder involvements - both on ad-hoc basis and as recurring conferences.





COMMON NORDIC REPORTS

The **principles for determining the transfer capacity document** describes the Nordic principles and procedures for the current capacity calculation and provides several practical calculation on the Nordic borders.

<https://www.nordpoolspot.com/globalassets/download-center/tso/principles-for-determining-the-transfer-capacities.pdf>

The **maximum net transfer capacity map** is available for all Nordic borders

<https://www.nordpoolgroup.com/globalassets/download-center/tso/max-ntc.pdf>

The quarterly report on **availability of transmission capacity in the Nordic** include an overview of the average capacity for the cross-border capacity and explanations of the reductions.

<https://energinet.dk/El/Data-om-energisystemet/Tilgaengelig-transmissionskapacitet>

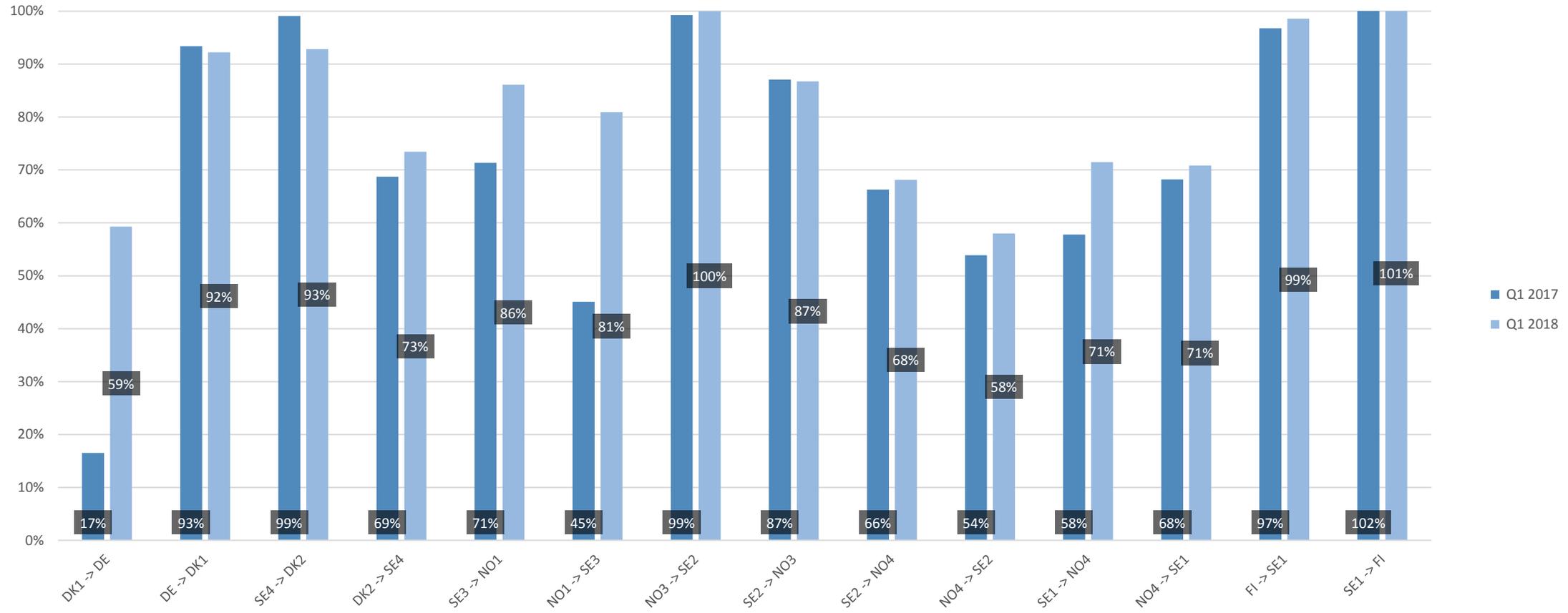
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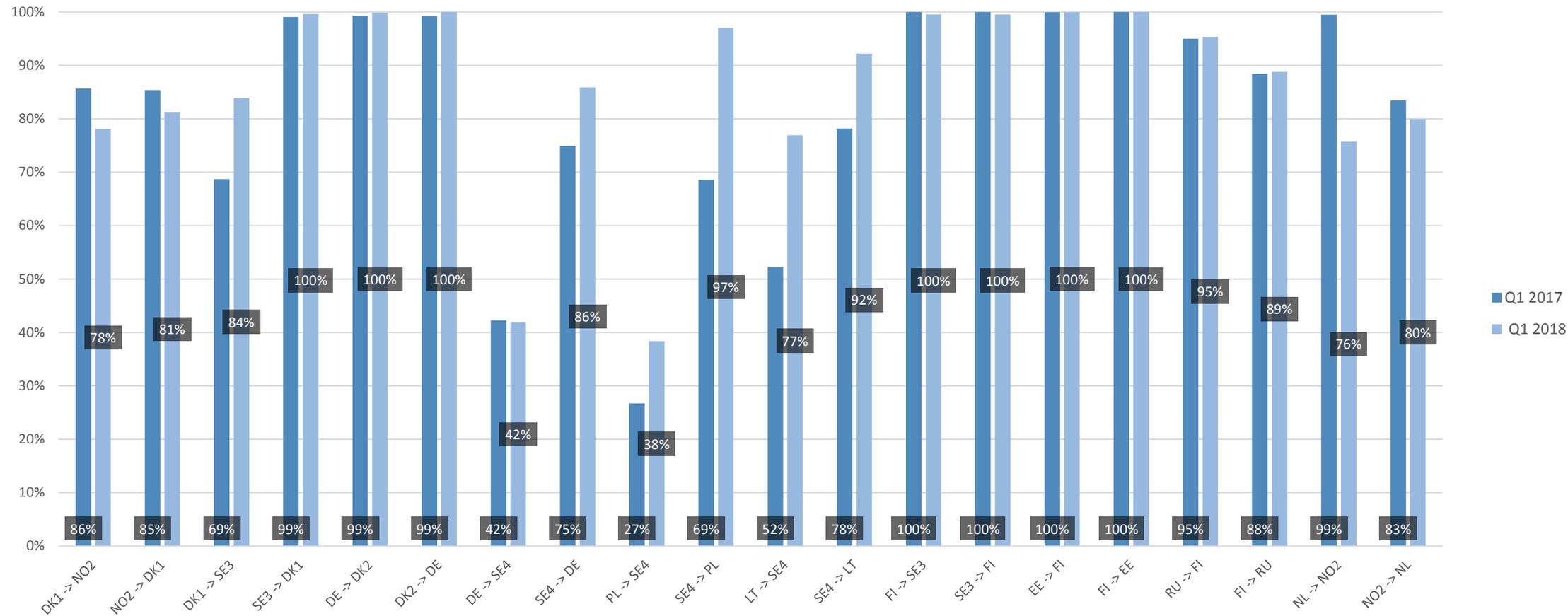
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AC-interconnectors - quarterly



DC-interconnectors - quarterly



Reasons for reduced* availabilities

* Availability below 75 %

Q1/2018

AC-interconnectors

- **DK1 -> DE**
 - The capacity has increased substantially compared to Q1 2017. The reason is mainly the countertrade agreement. However this is to a large extent a virtual increase in capacity, since a possible use of it is later countertraded in order to avoid breaches of N-1 security in Germany.
- **DK2 -> SE4**
 - Svenska kraftnät: The reason for reduction of capacity from Denmark (DK2) to Sweden (SE4) was congestion in the West Coast Corridor in Sweden.
 - Energinet: The reason for reducing capacity was single busbar operation in 132 Kv station Mörarp. Analysis has later shown that there is no longer a need to limit due to this operation. Full capacity released from February 10th 2018.
- **SE2 -> NO4**
 - Svenska kraftnät: Svk has not reduced the capacity
 - Statnett: Main reason for reduction is planned outage of 300 kV Tunnsjødal-Verdal in the Norwegian grid from week 3 to 7.
- **NO4 -> SE2**
 - Svenska kraftnät: Svk has not reduced the capacity
 - Statnett: Main reason for reduction is planned outage of 300 kV Tunnsjødal-Verdal in the Norwegian grid from week 3 to 7.
- **SE1 -> NO4**
 - Svenska kraftnät: Svk has not reduced the capacity
 - Statnett: Main reason for reduction is planned outage of 300 kV Tunnsjødal-Verdal in the Norwegian grid from week 3 to 7.
- **NO4 -> SE1**
 - Svenska kraftnät: Svk has not reduced the capacity
 - Statnett: Main reason for reduction is planned outage of 300 kV Tunnsjødal-Verdal in the Norwegian grid from week 3 to 7.

- **SE1 -> FI**
 - Reason for the ATC exceeding max NTC is the handling of transit flow from Norway via Finland to Sweden.

DC-interconnectors

- **DE -> SE4**
 - No capacity from March 22 because of cable fault. Other reductions because of congestion in the West Coast Corridor in Sweden and reduction set by TenneT.
- **PL -> SE4**
 - The main reason for reduction of capacity from Poland (PL) to Sweden (SE4) was reduction set by PSE. Capacity has also been reduced because of congestion in the West Coast Corridor in Sweden.



DATA

The **market data** on NordPool's website provides a wide range of relevant market data for free download, such as

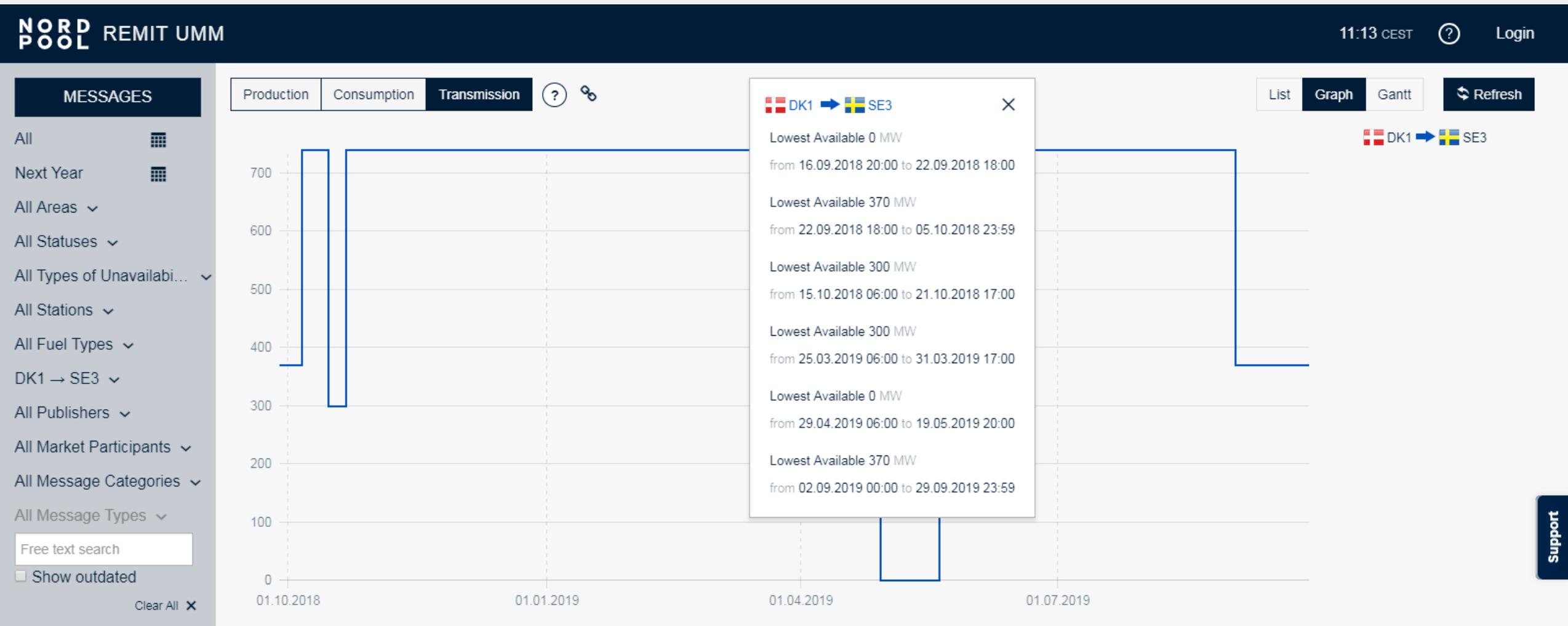
The **capacity reduction codes**, for each hour for the day-ahead market:

<https://www.nordpoolgroup.com/Market-data1/Dayahead/Capacities1/Capacity-Reduction-Codes/KEY/Norway1/?view=table>

All reductions in the Nordics are accompanied with a UMM at on Nordpool's website, which has several graphical options for a better overview.

<https://umm.nordpoolgroup.com/#/messages>

Screen dump from NordPool's UMM system, showing all planned reduction from DK1 to SE3 for the next year





STAKEHOLDER INVOLVEMENT

Each TSO has several platforms and forums for stakeholder involvements - both on ad-hoc basis and as annual conferences – and are specialized towards markets, operations etc.

Overview of market participant forums in Energinet:

<https://energinet.dk/El/Samarbejde-paa-elmarkedet#Dialogforum>

Overview of market participant forums in Svenska Kraftnät:

- ❖ Elmarknadsrådet: <https://www.svk.se/om-oss/organisation/rad/elmarknadsradet/>
- ❖ Planeringsrådet: <https://www.svk.se/om-oss/organisation/rad/planeringsradet/>
- ❖ Driftrådet: <https://www.svk.se/om-oss/organisation/rad/driftradet/>

- ❖ Swedish Interconnectors - Monitoring Report No

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Overview of market participant forums in Fingrid:

- ❖ Advisory committee: <https://www.fingrid.fi/en/pages/company/corporate-governance/committees/#advisory-committee>
- ❖ Grid committee: <https://www.fingrid.fi/en/pages/company/corporate-governance/committees/#grid-committee>
- ❖ Operations committee: <https://www.fingrid.fi/en/pages/company/corporate-governance/committees/#operations-committee>
- ❖ Market committee: <https://www.fingrid.fi/en/pages/company/corporate-governance/committees/#market-committee>



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Overview of market participant forums in Statnett:

<http://www.statnett.no/Kraftsystemet/Dialog-og-samarbeid-med-bransjen/>

The most relevant forums are:

- ❖ Systemoperatørforum
- ❖ Forum for systemtjenester
- ❖ Driftstekniske møter
- ❖ Regionale kundemøter
- ❖ Temamøter

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