



# Nordic Unavailability Collection System

Business Processes and Expected Changes



# Background

## Ongoing Tendering Process for NUCS

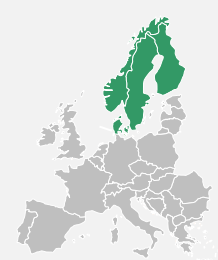


- NUCS platform (website) is currently undergoing a tendering process (legal requirement)
- The developments necessary for FB outage publication on the NUCS platform cannot be completed by the current vendor until the tendering freeze period
- Tendering freeze period and new vendor selection timeline lasts until the Y-1 go-live date: Oct 2025
- Go-Live Target for FB outage publications on NUCS is first half of 2026

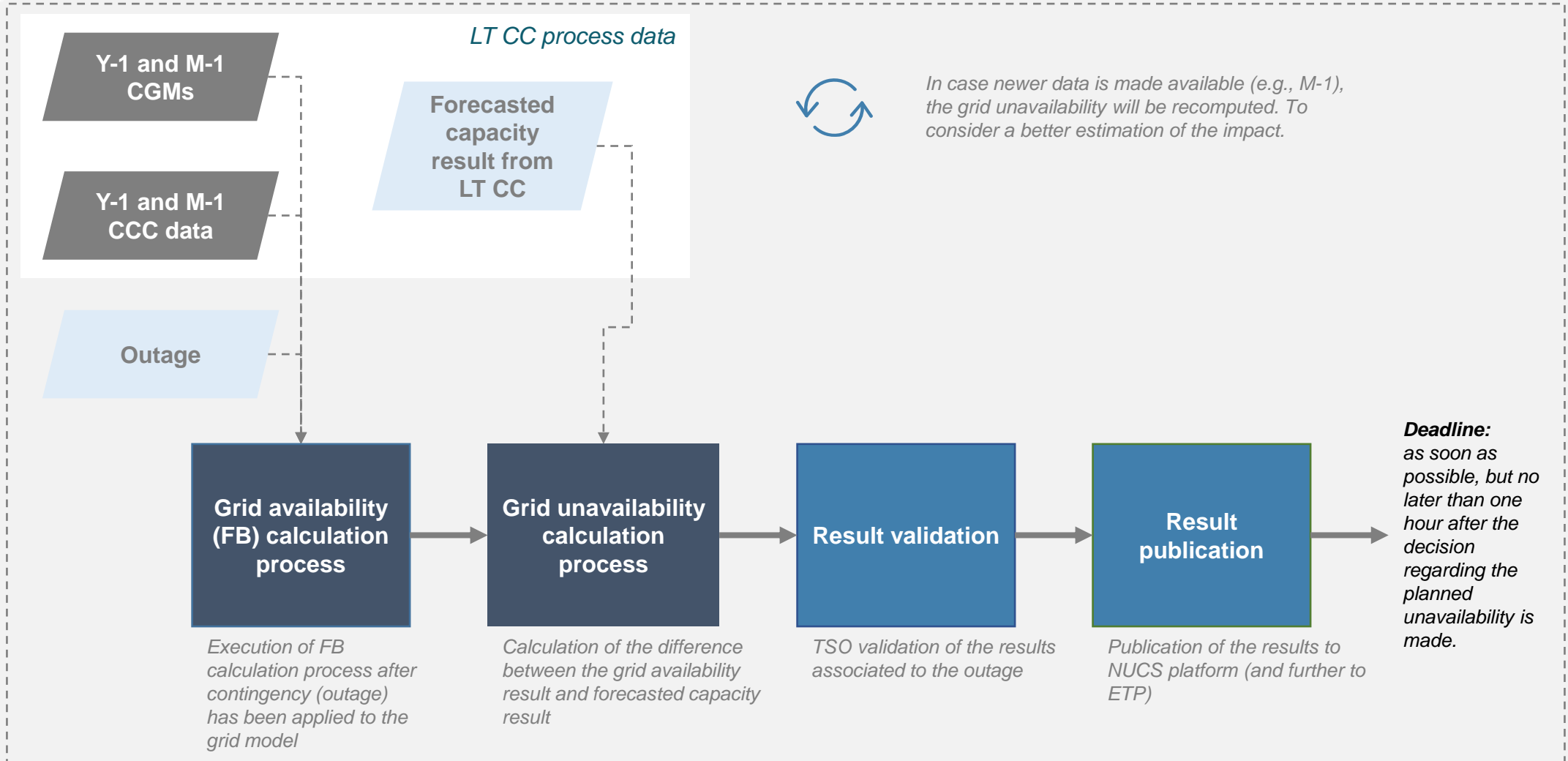
## Nordic TSOs remain committed to maximize value creation



- **Focusing on value creation towards market participants:** ensuring quality and accessibility of flow-based data associated with outages
  - Developing handbook for new publication format
  - Downloadable flow-based domains in accessible format that can be used as input constraints in market models
  - Further FB domains that quantify the combined impact of simultaneously occurring outages



# High-level business process illustration for NUCS





# NUCS Ambitions for FB Publications

## Summary of expected changes on NUCS

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### UMM page: Coexistence of NTC and FB Publications

- Individual FB impact of planned transmission unavailability
- NTC publications remain for:
  - Initial impact estimates of outages until FB calculations are available
  - Unplanned outages

### Forecasted Net Positions

- Forecasted Net Positions:
  - Net position forecasts for W-1, M-1 and Y-1 for each bidding zone
  - Replacing Forecasted Transfer Capacities dashboards
  - The combined impacts of overlapping outages are quantified here



# NTC and FB UMM: Individual Impacts of Outages

Proposal is still under alignment and subject to changes before publication of handbook

**Filters**

**Event Start/Stop Range**

From: 30.03.2025

To: 06.03.2026

**Publication Date/Time**

Publication Date/Time Range

From:

To:

**Bidding Zone**

Area | Border

Select All

Denmark (DK)

Finland (FI)

Norway (NO)

Sweden (SE)

Show more filters

Type of Event	Affected Asset or Unit	Fuel Type	Bidding Zone	Event Start (CET)	Event Stop (CET)	Available Capacity [MW]	Unavailable Capacity [MW]	Publication Date/Time (CET)	Publisher
Transmission unavailability	COBRACable		DK1 > NL NL > DK1	06.05.2025 06:00	07.05.2025 17:00	0	700	11.03.2025 10:07	Energinet
Production unavailability	Kobbelv	Hydro Water Reservoir	NO4	28.03.2025 08:00	04.04.2025 15:00	0	300	11.03.2025 07:41	ENTSO-E
Transmission unavailability	Skogssäter-Kilanda		SE2 > SE3 SE3 > SE4 ...	14.07.2025 06:00	16.07.2025 18:00	5700 3500 ...	1600 2700 ...	11.03.2025 07:40	Svenska Kraftnät

Bidding Zone	Interval start (CET)	Interval Stop (CET)	Installed Capacity [MW]	Available Capacity [MW]	Unavailable Capacity [MW]
SE2 > SE3	14.07.2025 06:00 (CET)	16.07.2025 18:00 (CET)	7300	5700	1600
SE3 > SE4	14.07.2025 06:00 (CET)	16.07.2025 18:00 (CET)	6200	3500	2700
SE3 > DK1	14.07.2025 06:00 (CET)	16.07.2025 18:00 (CET)	715	100	615
NO1 > SE3	14.07.2025 06:00 (CET)	16.07.2025 18:00 (CET)	2145	100	2045

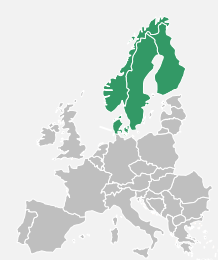
Event Start	Event Stop	Event Status	Message ID
14.07.2025 06:00	16.07.2025 18:00	Active	NU_Axx9K8DszDSFmbYixGLIXw_001
Affected Assets or Unit	Affected Assets or Unit EIC Code	Market Participant	Market Participant Code
Skogssäter-Kilanda	46TAC000000180Q	Svenska Kraftnät	10X1001A1001A418
Type of Unavailability	Reason Code	Version	Unit of measurement
Unplanned (NTC impact)	Foreseen Maintenance	1	MW
Reason for The Unavailability	Remarks		
Renewal of FLS S7-8 Skogssäter (OT15)-Kilanda, preparatory work			

Impact type

Net position (FB)

Capacity (NTC)

\* Including version control (not presented on this figure): NTC impact is always a first estimation of the impact, a FB impact can be published later on for the same outage, which constitutes the second version



# NTC and **FB** UMM: Individual Impacts of Outages

Proposal is still under alignment and subject to changes before publication of handbook

**Impact type**

Net position (FB)

Capacity (NTC)

**Filters**

**Event Start/Stop Range**

From: 30.03.2025

To: 06.03.2026

**Publication Date/Time**

Publication Date/Time Range

From:

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**Bidding Zone**

Area | Border

Select All

Denmark (DK)

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Norway (NO)

Sweden (SE)

Show more filters

Type of Event	Affected Asset or Unit	Fuel Type	Bidding Zone	Event Start (CET)	Event Stop (CET)	Available Capacity [MW]	Unavailable Capacity [MW]	Publication Date/Time (CET)	Publisher
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Transmission unavailability	Skogssäter-Kilanda		SE3 export SE2 import ...	14.07.2025 06:00	16.07.2025 18:00	4000 600 ...	1000 200 ...	11.03.2025 07:40	Svenska Kraftnät

Bidding Zone	Interval start (CET)	Interval Stop (CET)	Maximum net position [MW]	Available net position [MW]	Unavailable net position [MW]
SE3 export	14.07.2025 06:00 (CET)	16.07.2025 18:00 (CET)	5000	4000	1000
SE2 import	14.07.2025 06:00 (CET)	16.07.2025 18:00 (CET)	800	600	200
...			...	...	...

Event Start	Event Stop	Event Status	Message ID
14.07.2025 06:00	16.07.2025 18:00	Active	NU_Axx9K8DszDSFmbYixGLJxw_001
Affected Assets or Unit	Affected Assets or Unit EIC Code	Market Participant	Market Participant Code
Skogssäter-Kilanda	46TAC0000000180Q	Svenska Kraftnät	10X1001A1001A418
Type of Unavailability	Reason Code	Version	Unit of measurement
Planned (FB impact)	Foreseen Maintenance	1	MW
Reason for The Unavailability	Remarks		
Renewal of FL5 S7-8 Skogssäter (CT15)-Kilanda, preparatory work			

Download FB domain

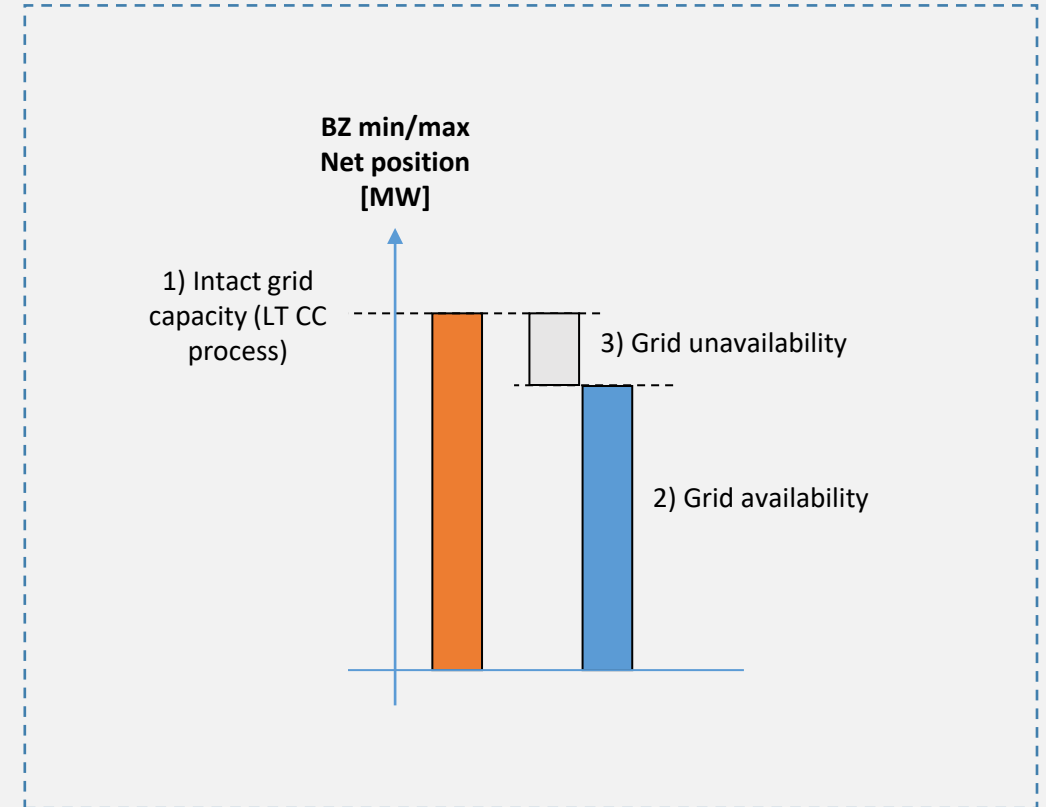
Actions



# NTC and FB UMM: Individual Impacts of Outages

## FB Impact of Planned Transmission Unavailability

- Y-1 or M-1 LT FB domains are recomputed by applying the given outage in the grid model → individual impact
- Outage-adjusted FB domain will be downloadable for each UMM
  - In similar format as published on [JAO PuTo](#) today for day-ahead
- Publication of min/max net positions of impacted BZs
  - Intact grid net positions (from LT CC process)
  - Grid availability (min/max net positions in outage-adjusted FB domain)
  - Grid unavailability (difference between the above two)

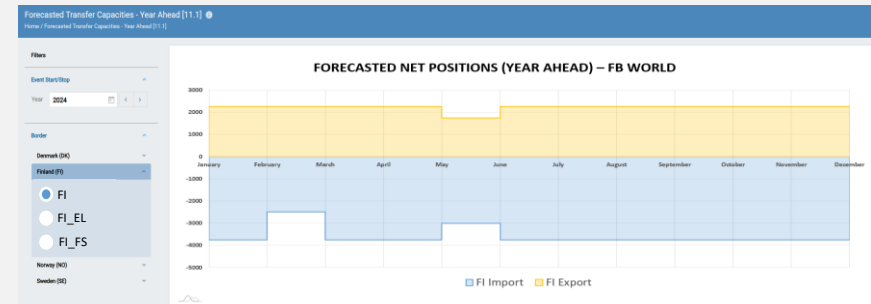
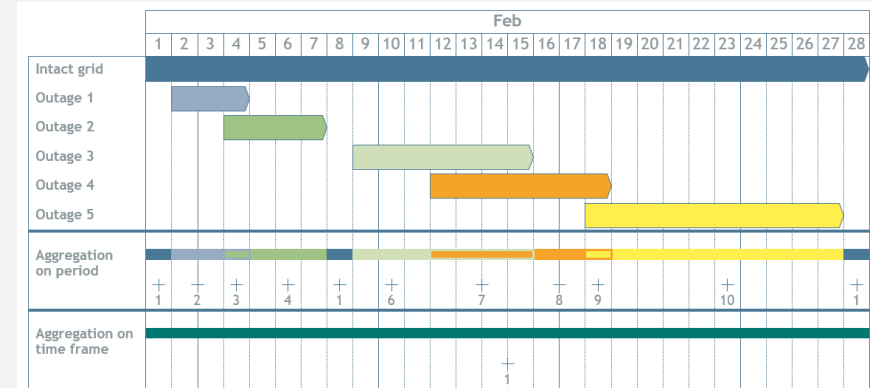




# Forecasted Net Positions

## Net Position Forecasts considering Overlapping Outages

- Net position forecasts for W-1, M-1 and Y-1 for each bidding zone
- Replacing Forecasted Transfer Capacities dashboards
- The combined impacts of overlapping outages are quantified here
  - FB domain for each unique combinations of outages
  - Domains for these combinations will be downloadable as well
- Proposal is still under alignment and subject to changes before publication of handbook







# Next steps

01

## Continuing development on Nordic TSOs side

- Ensuring that results are ready for publication
- Readiness to integrate with NUCS platform as soon as the new vendor is ready to develop

02

## Writing MP handbook for new publication format

03

## Continuing tendering process for the NUCS platform