



## 7. Data publication in EPR and after go-live

Nordic CCM Stakeholder Meeting  
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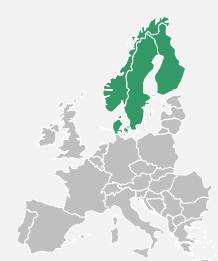
# Data publication in EPR

- During the EPR TSOs publishes data:
  - At JAO website: <https://test-publicationtool.jao.eu/nordic/home>
  - At Nordic RCC: <https://nordic-rcc.net/flow-based/simulation-results/>
- At JAO:
  - Calculated Flow-based parameters
  - Details: [Publication Handbook](#)
- At Nordic RCC:
  - EPR data and reports related to market simulations
  - Details: [External Parallel Run Handbook \(nordic-rcc.net\)](#)



# Data Publication after go-live

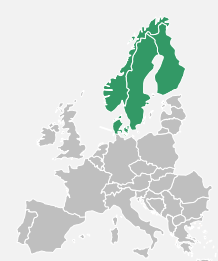
- Nordic Transparency Group (NTG) and FB project has commonly evaluated data published for FB and identified what data and where to publish after FB go-live
- Nordic TSOs has agreed to use **Transparency Platform (TP)** as a **primary place for data publication**, however TP is on development phase for FB data publication and therefore JAO will do publication for interim period after go-live
- In addition, JAO will keep data from EPR available after go-live



# Data Publication after go-live, flow-based parameters

Information that is either obligated by Transparency regulation or Capacity calculation methodology will be published on Transparency platform

Source	Subcategory	Data item
Transparency regulation, DDD	Constraint identifier	Constraint identifier
Transparency regulation, DDD	TSO(s) which introduced the CNEC. Normally only one TSO but may be two for cross-border CNECs.	TSO name(s)
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	CNEC Asset name
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	CNEC Type
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	CNEC Location
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	CNEC EIC code
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	Contingency Asset name
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	Contingency Type
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	Contingency Location
Transparency regulation, DDD	The transmission asset name, type, location and EIC code of the critical network element (CNE) and, when applicable, of the contingency	Contingency EIC code
Transparency regulation, DDD	In and Out bidding zones, indicating the direction of the energy flow on the CNE and on the contingency, respectively	In and Out BZs, direction of the energy flow on the C
Transparency regulation, DDD	Power transfer distribution factor (PTDF) per bidding zone	PTDF per bidding zone
Transparency regulation, DDD	Remaining physical margin available for allocation (RAM) in MW	RAM
Transparency regulation, DDD	Maximum allowable power flow (Fmax) in MW	Fmax
Transparency regulation, DDD	Reference flow (Fref) in MW, may be positive or negative	Fref
Transparency regulation, DDD	Flow reliability margin (FRM) in MW	FRM
Transparency regulation, DDD	Maximum admissible current (Imax) in Ampere	Imax
Transparency regulation, DDD	Flows resulting from previously allocated cross-zonal capacities (Faac) in MW	FAAC
Transparency regulation, DDD	Individual value adjustment resulting from TSO validation process (IVA) in MW	IVA
Transparency regulation, DDD	Flow for increasing the RAM due to remedial action (FRA) in MW	FRA
Transparency regulation, DDD	The linear approximation of a flow in the reference net position in a situation without any cross-zonal exchanges (FO) in MW	FO
Transparency regulation, DDD	Adjustment of minimum RAM (AMR) in MW	AMR
Capacity Calculation Methodology	i. maximum and minimum possible net position of each bidding zone;	Min Net Position
Capacity Calculation Methodology	i. maximum and minimum possible net position of each bidding zone;	Max Net Position
Capacity Calculation Methodology	ii. maximum possible bilateral exchanges on all Nordic bidding zone borders;	MaxBex (Max possible bilateral exchanges on all B
Capacity Calculation Methodology	iii. names of CNECs (with geographical names of substations where relevant and separately for CNE and contingency) and combined dynamic constraints of the final FB parameters and the TSO defining them;	Combined dynamic constraints of the final FB para
Capacity Calculation Methodology	iii. names of CNECs (with geographical names of substations where relevant and separately for CNE and contingency) and combined dynamic constraints of the final FB parameters and the TSO defining them;	TSO defining constraints



# Data Publication after go-live, flow-based parameters

Information that is either obligated by Transparency regulation or Capacity calculation methodology will be published

- On Transparency platform if supported by TP
- Elements below are looking for place for publication, requires Change Request to TP

Source	Subcategory	Data item
Capacity Calculation Methodology	v. for each CNEC of the final FB parameters, the method for determining in accordance with Article 4(3);	Imax method
Capacity Calculation Methodology	vi. detailed breakdown of for each CNEC of the final FB parameters	U
Capacity Calculation Methodology	viii. information about the individual validation reductions	The identification of the CNEC
Capacity Calculation Methodology	viii. information about the individual validation reductions	TSO invoking the reduction
Capacity Calculation Methodology	viii. information about the individual validation reductions	The volume of reduction ( )
Capacity Calculation Methodology	viii. information about the individual validation reductions	The detailed reason(s) for reduction, including the operational security limit(s) that would have been violated without reductions, and under which circumstances they would have been violated;
Capacity Calculation Methodology	x. the forecast information contained in the CGM	Vertical load for each Nordic bidding zone and each TSO
Capacity Calculation Methodology	x. the forecast information contained in the CGM	Production for each Nordic bidding zone and each TSO
Capacity Calculation Methodology	x. the forecast information contained in the CGM	For each Nordic bidding zone and each TSO
Capacity Calculation Methodology	x. the forecast information contained in the CGM	Reference net positions of all bidding zones in the synchronous area Nordic and
Capacity Calculation Methodology	x. the forecast information contained in the CGM	Reference exchanges for all HVDC network elements within the synchronous area Nordic
Capacity Calculation Methodology	x. the forecast information contained in the CGM	Reference exchanges for all HVDC network elements between the synchronous area Nordic and other synchronous areas.



# Data Publication after go-live, flow-based parameters

Information that is not mandatory to publish, not supported by TP, but will be published after go-live

- Long term solution not yet confirmed

Flowbased Domain Test data.Full Disclaimer														Dov				
SEARCH ▾																		
CR on TP or other place							TP: CNE or PTC							CR on TP or other place				
Information on the CNE							Information on the Contingency							Detailed Breakdown				
Date	Status	Bidding Zone From	Bidding Zone To	Substation From	Substation To	Type	Name	EIC	Status	Substation From	Substation To	Imax method	Non-redundant	Significant	RAM	Min Flow	Max Flow	U
2023-10-17 00:00:00	OK	DK2	DK2	TEG	MRP	CNE	400KV LINE C_GØR-SÅN	10T-DK-SE-000063	NK	GØR	SÅN	TATL	✗	✓	338	-219	254	139
2023-10-17 00:00:00	OK	DK2	DK2	TEG	MRP	CNE	400KV LINE C_HVE-SÅN	10T-DK-SE-000055	NK	HVE	SÅN	TATL	✗	✓	337	-210	244	139
2023-10-17 00:00:00	OK	DK2	DK2			CNE	400KV LINE C_HVE-SÅN		NK				✗	✓	245	-233	200	136
2023-10-17 00:00:00	OK	DK2	DK2			CNE	400KV LINE C_GØR-SÅN		NK				✗	✓	244	-243	210	136
2023-10-17 00:00:00	OK	DK2	DK2			CNE	400KV LINE C_HVE-SÅN		NK				✗	✓	269	-220	257	136
2023-10-17 00:00:00	OK	DK2	DK2	ISH 132kV	ISH 400kV	CNE	400KV LINE C_BJS-ISH	45T0000000000055M	NK	BJS	ISH	TATL	✗	✓	677	-271	114	423

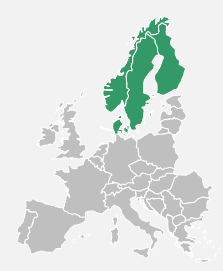


# Data Publication after go-live, flow-based parameters

Data not published on JAO during EPR, but is to published after go-live on NUCS:

- Related to remedial actions

Capacity Calculation Methodology	ix. for each RA taken into account in day-ahead and intraday calculation	Type of RA
Capacity Calculation Methodology	ix. for each RA taken into account in day-ahead and intraday calculation	Location of RA
Capacity Calculation Methodology	ix. for each RA taken into account in day-ahead and intraday calculation	Whether the RA was curative or preventive
Capacity Calculation Methodology	ix. for each RA taken into account in day-ahead and intraday calculation	If the RA was curative, a list of CNEC identifiers des
Capacity Calculation Methodology	ix. for each RA taken into account in day-ahead and intraday calculation	Minimum <i>FRA</i>



# Data Publication after go-live, results

- During EPR, calculation results are published on NRCC page
- After go-live following mandatory data is published on TP

Source	Data item	Regulatory requirement	Responsible for publication	Data ownership	Publication (today and/o before go-live)	Platform(s)
Transparency regulation, DDD	CI per BZ	Yes	JAO	TSO	Go-live	NRCC
Capacity Calculation Methodology	For each MTU the ATC values for all BZ borders in Nordic CCR calculated pursuant to Article 20;	Yes	XBID	TSO	ERP & Go-live	NRCC
EPR results	SDAC Net position	Yes	NEMOs	NEMOs	ERP & Go-live	NRCC
EPR results	Border F_AAC	Yes	NRCC	TSO	ERP & Go-live	NRCC
EPR results	Prices	Yes	NEMOs	NEMOs	ERP & Go-live	NRCC
EPR results	Scheduled exchange	Yes	TSO	TSO	ERP & Go-live	NRCC





# Data Publication after go-live, results

- During EPR following non-mandatory data is published on NRCC
- After go-live Shadow prices and FAAC\_FB+F0 might be published on NUCS

Source	Subcategory	Data item	Regulator	Responsible for	Data ownership	Publication (today)	Platform(s)	Platform(s) after go-live
EPR results	FB MC	Buy volume	No	NEMOs	NEMOs	ERP & Go-live	NRCC	
EPR results	FB MC	Sell volume	No	NEMOs	NEMOs	ERP & Go-live	NRCC	
EPR results	FB MC	Price Spread	No	TSO	NEMOs	ERP & Go-live	NRCC	Nice to have
EPR results		EPR substitution log	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	Flag identifying if a CNEC/combined dynamic constraint is considered by the SDAC algorithm	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	RAM defined by neighbouring non-Nordic TSOs (RAM_External)	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	Harmonized RAM value between RAM_External and RAM_FB, i.e. RAM_aligned	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	FB MC induced 'physical' flow on CNEC/dynamic constraint, i.e. FAAC_FB	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	NTC MC induced 'physical' flow on CNEC/dynamic constraint, i.e. FAAC_NTC	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	Shadow price per CNEC/combined dynamic constraint	No	TSO	NEMOs	ERP & Go-live	NRCC	NUCS?
EPR results	GC_matrix	FAAC_FB + F0	No	TSO	TSO	ERP & Go-live	NRCC	NUCS?
EPR results	GC_matrix	FAAC_NTC + F0	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	Percentage, i.e. Load_FB = FAAC_FB/RAM_Aligned	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	GC_matrix	Loading percentage, i.e. Load_NTC = FAAC_NTC/RAM_Aligned	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	EPR market report Appendix	Domain validation outcome: invalid IGMs, IVA provision, final FB domain acceptance ratio	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results	EPR market report Appendix	SEW info, in graphical format	No	TSO	TSO	ERP & Go-live	NRCC	Nice to have
EPR results		ATCE ID graphical report	No	TSO	TSO, NEMOs	ERP & Go-live	NRCC	No need



**Thank you!**

**ENERGINET**



**FINGRID**

**Statnett**