



Nordic Capacity Calculation Methodology Project (Nordic CCM)

Nordic CCM

External Parallel Run Market Report
Appendix for Week 19 of 2024



Appendix

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Domain validation

Energy Delivery Day:	Mon. 6.5.	Tue. 7.5.	Wed. 8.5.	Thu. 9.5.	Fri. 10.5	Sat. 11.5	Sun. 12.5.
Invalid/missing IGMs	0	4	0	0	1	0	0
Substituted IGMs	0	0	0	0	0	0	0
Invalid CGMs	0	0	0	0	0	0	0
FB domain back-up	0	0	0	0	0	0	0
IVA provision	1	2	0	0	1	0	0
Final domain acceptance (1 TSO =25%)	100%	100%	100%	100%	100%	100%	100%

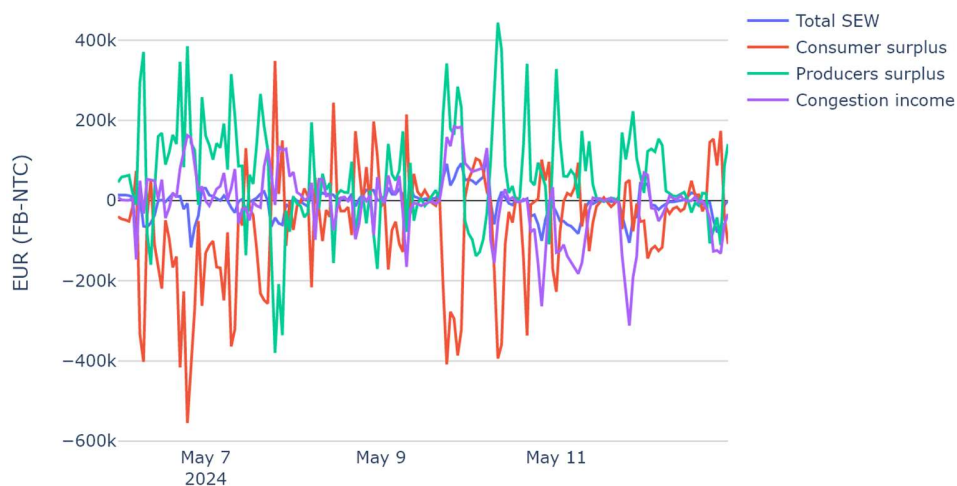


Socio Economic Welfare

For the socio-economic welfare graphs, the contribution from interconnectors out of the Nordic CCR is not included. Thus, the values for the congestion income are only from the Nordic internal bidding zones, and not from the contributions on the Hansa/Baltic borders. This includes the country specific socio-economic welfare graphs.

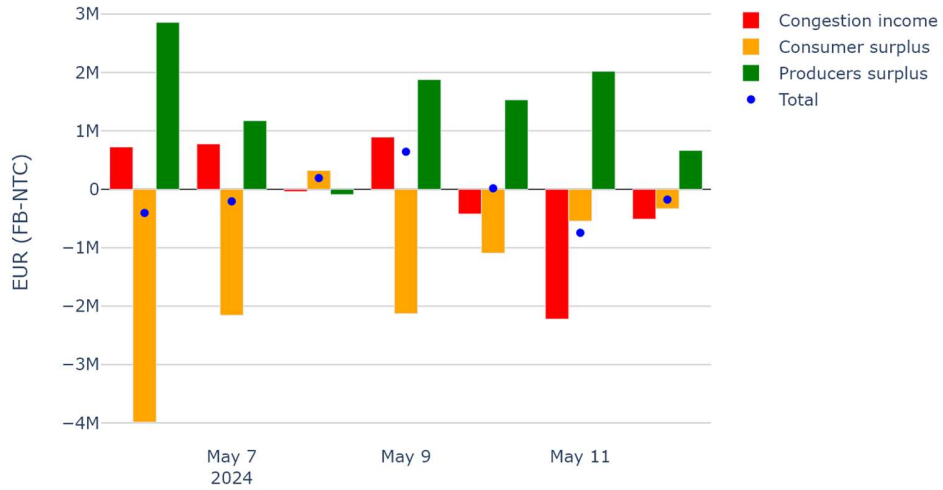
Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

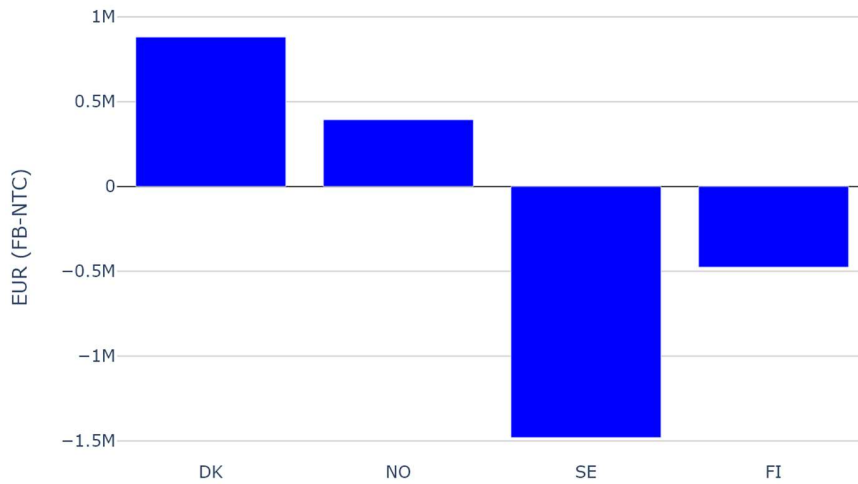




Nordics socio-economic welfare per stakeholder and day

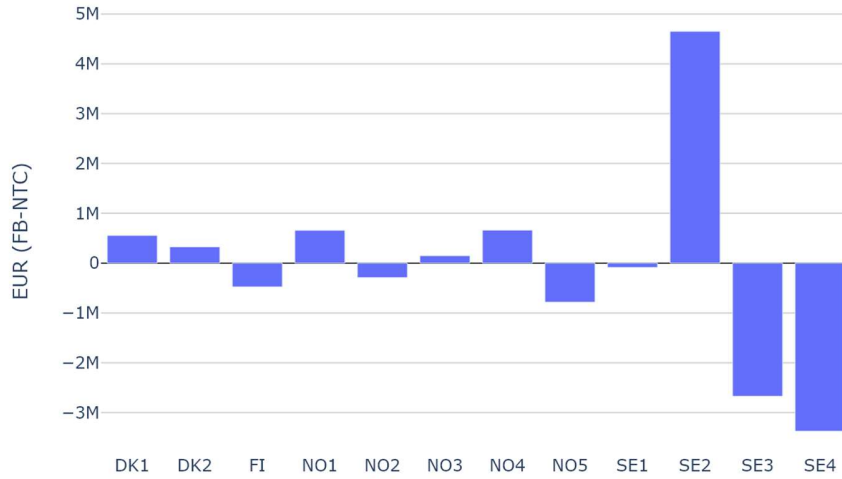


Total Nordic socio-economic welfare per country



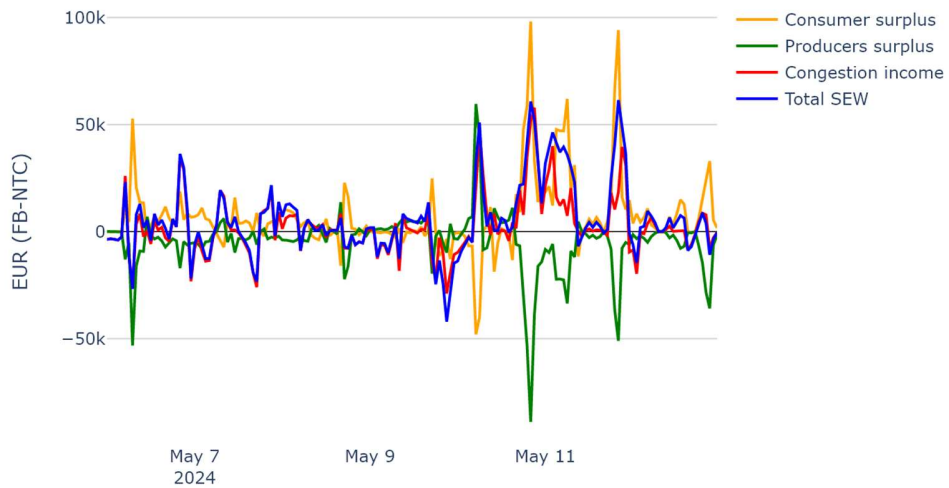


Socio economic welfaregain FB-NTC per BZ - Total_sew



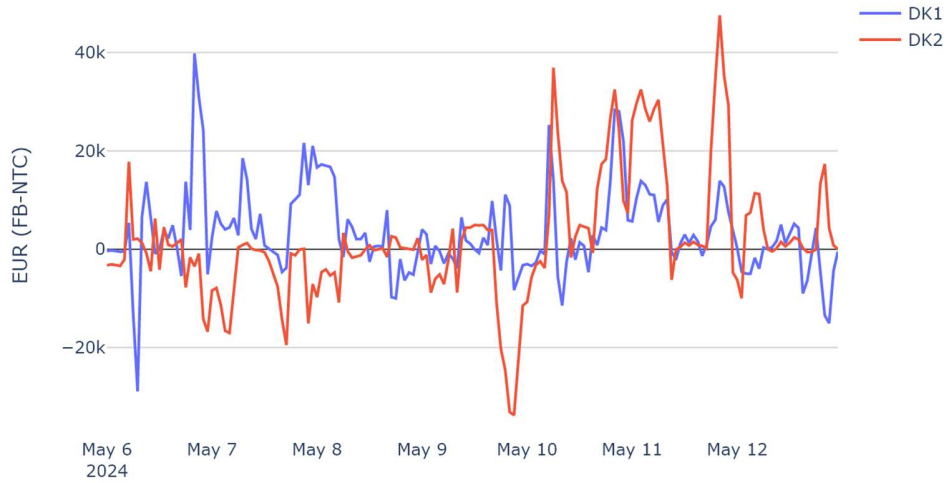
Denmark

DK, socio-economic welfare per stakeholder and country

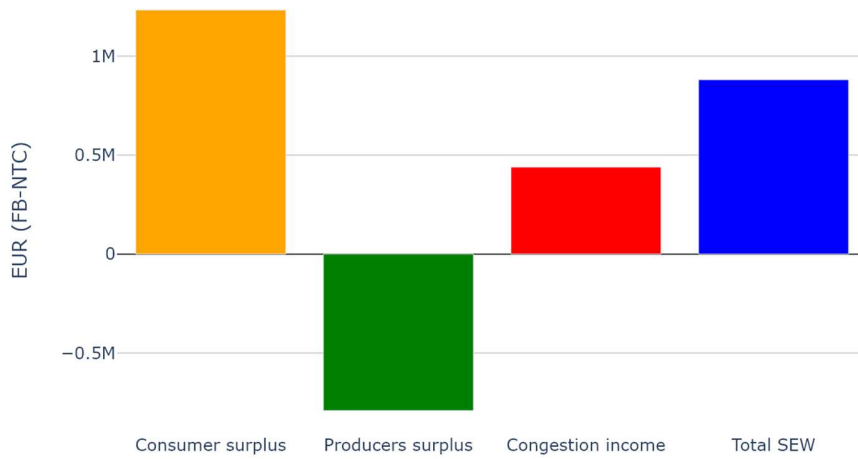




Total socio economic welfaregain FB-NTC per BZ in DK



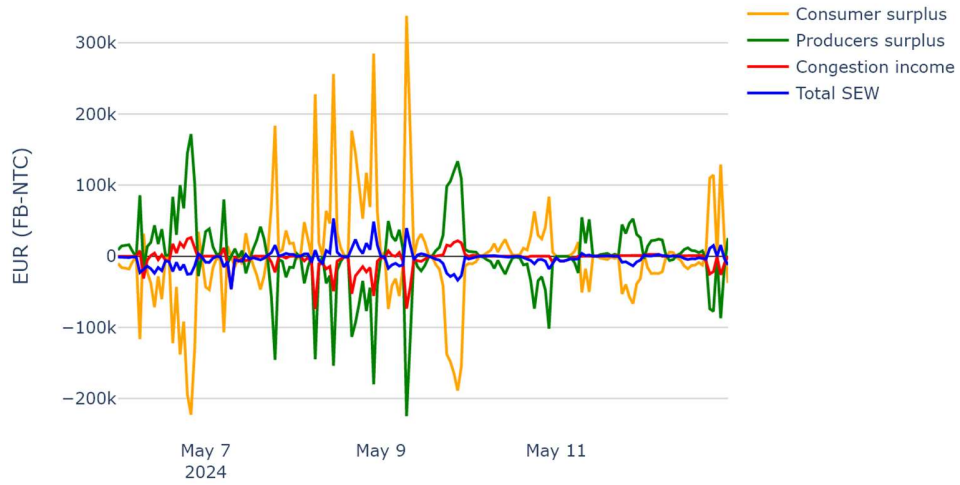
DK, socio-economic welfare per stakeholder and country



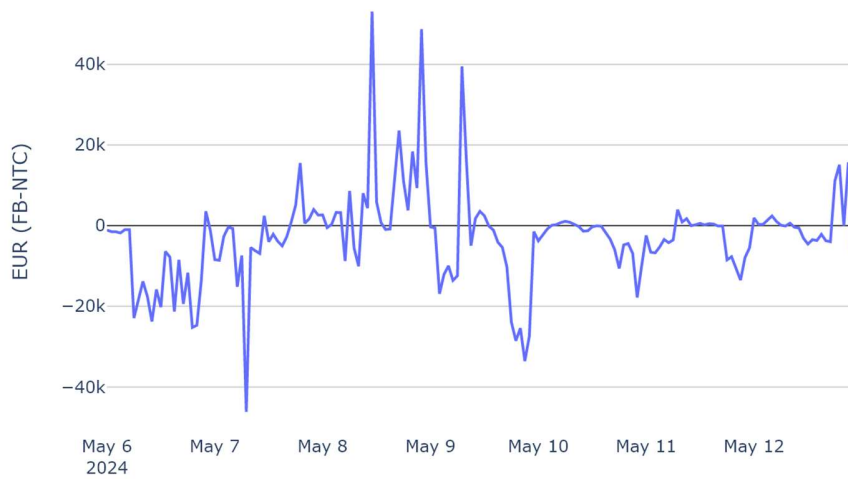


Finland

FI, socio-economic welfare per stakeholder and country

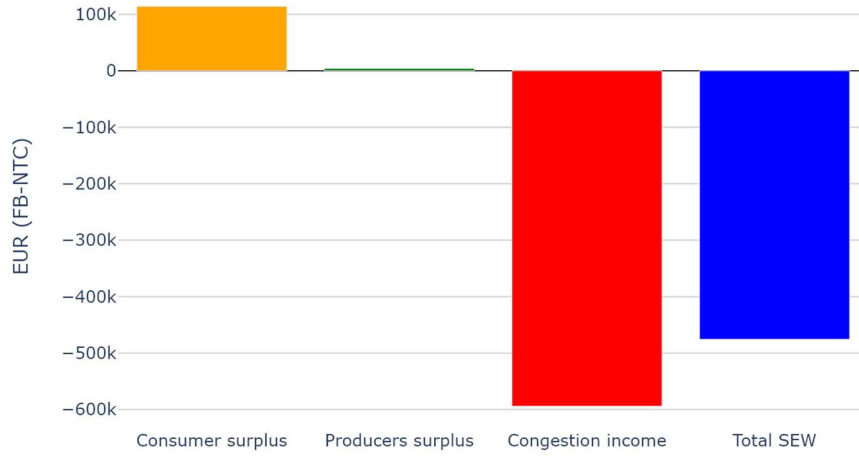


Total socio economic welfaregain FB-NTC per BZ in FI



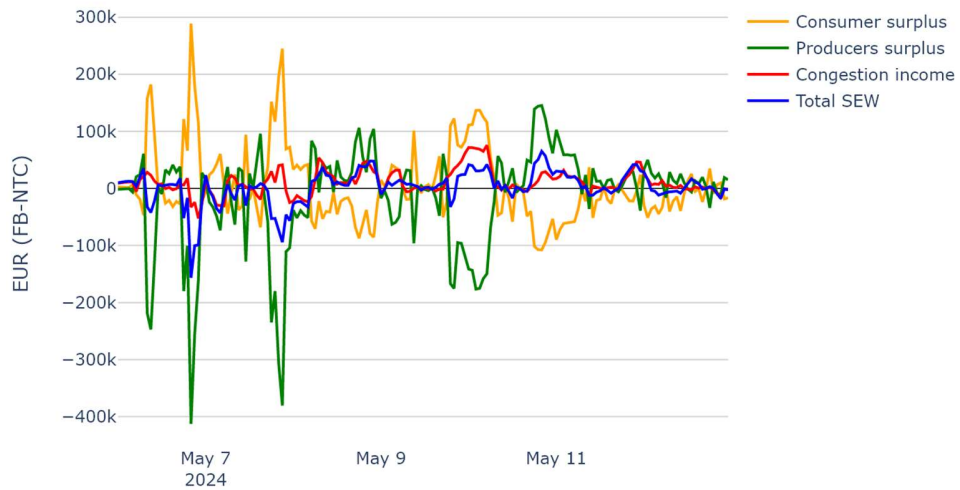


FI, socio-economic welfare per stakeholder and country



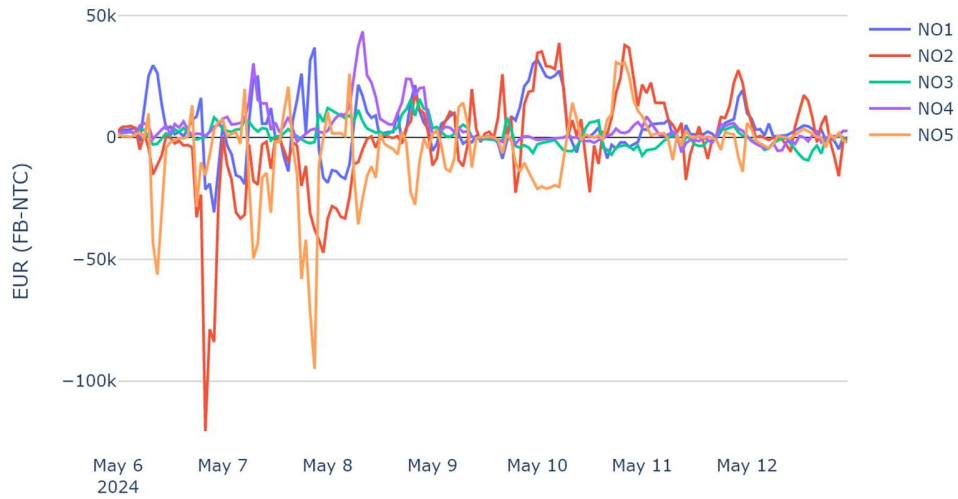
Norway

NO, socio-economic welfare per stakeholder and country

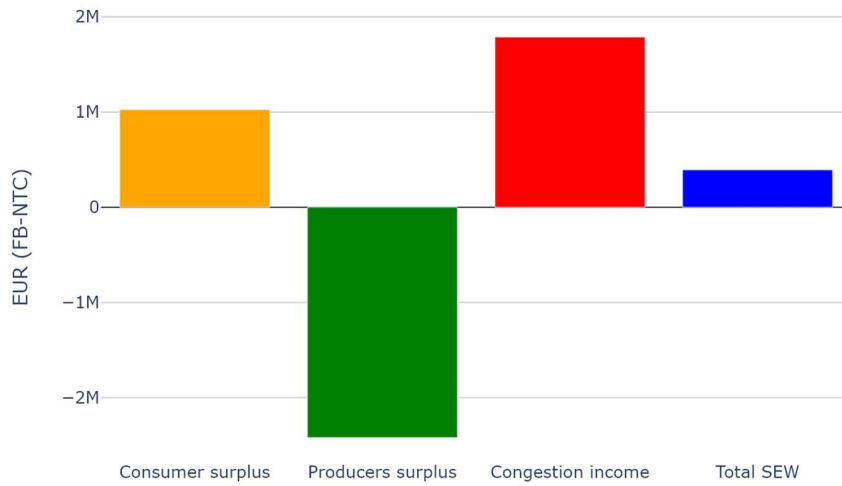




Total socio economic welfaregain FB-NTC per BZ in NO



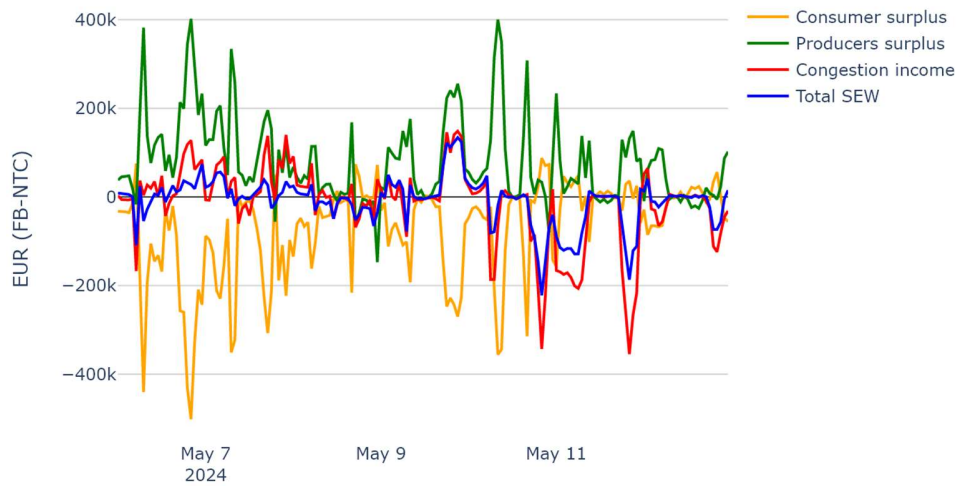
NO, socio-economic welfare per stakeholder and country



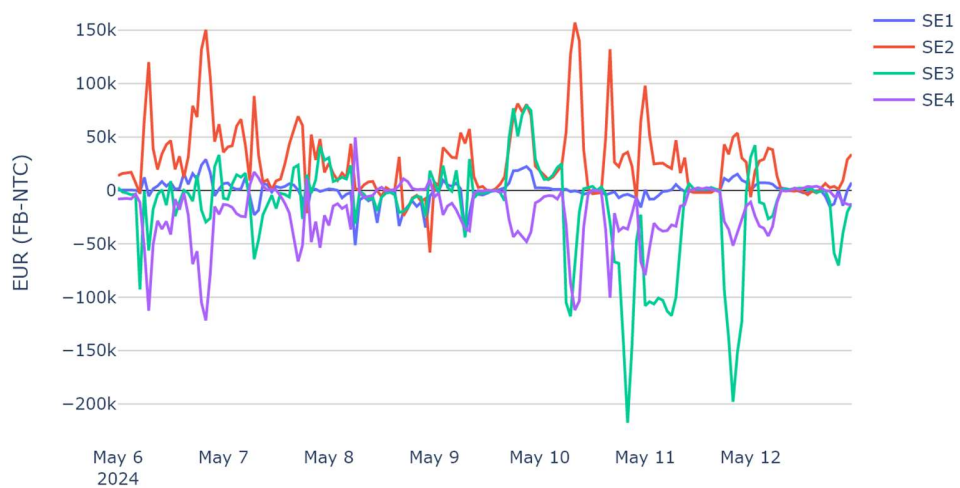


Sweden

SE, socio-economic welfare per stakeholder and country

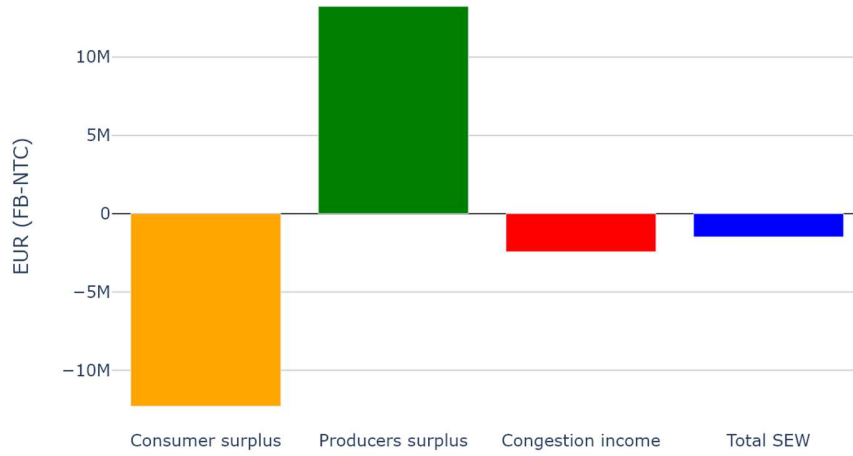


Total socio economic welfaregain FB-NTC per BZ in SE





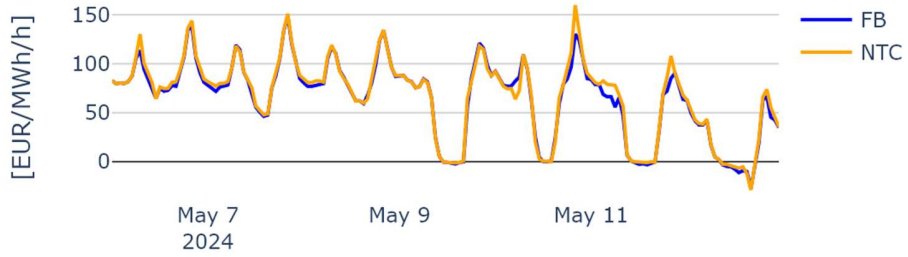
SE, socio-economic welfare per stakeholder and country



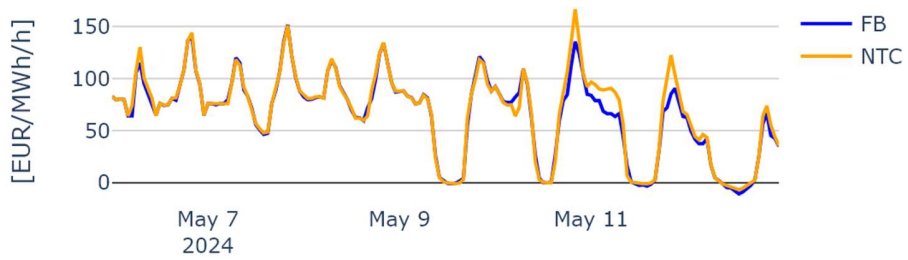


Prices

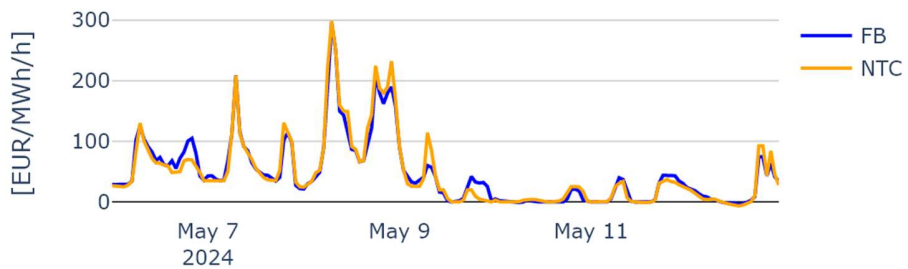
DK1 price



DK2 price

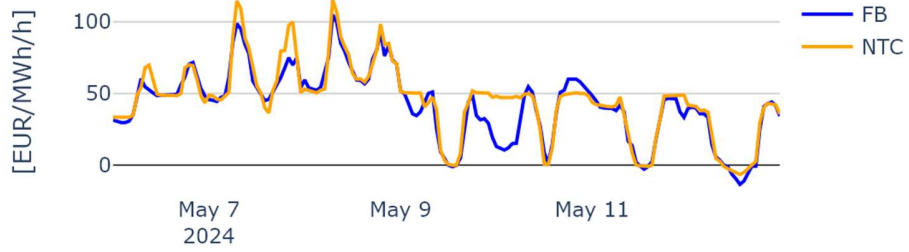


FI price

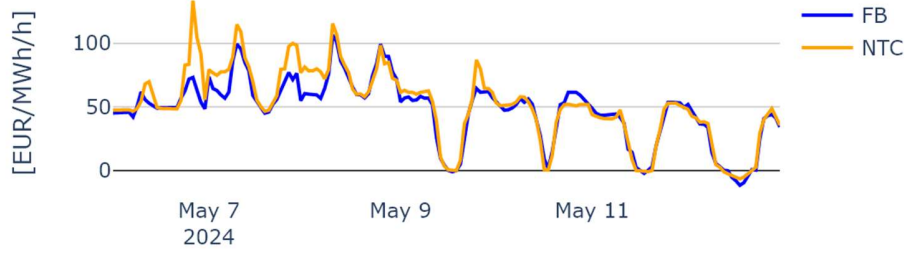




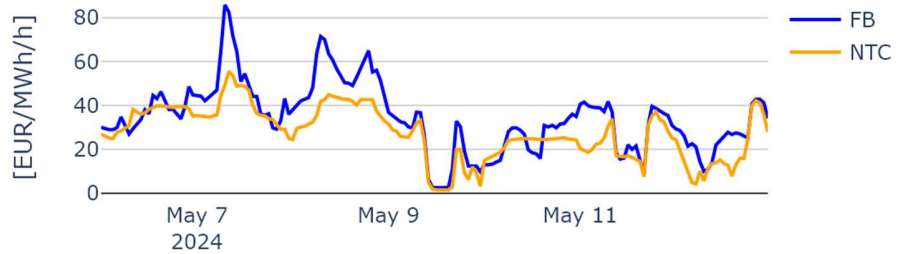
NO1 price



NO2 price

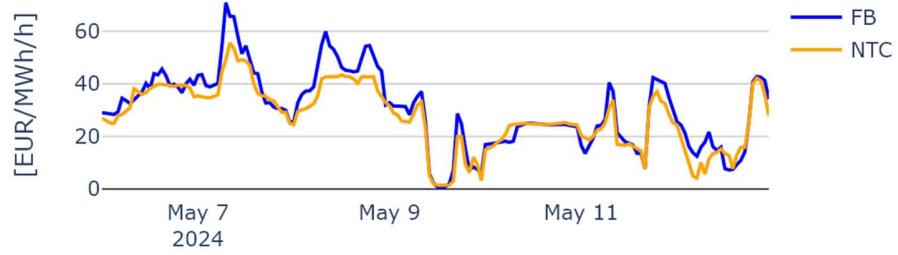


NO3 price

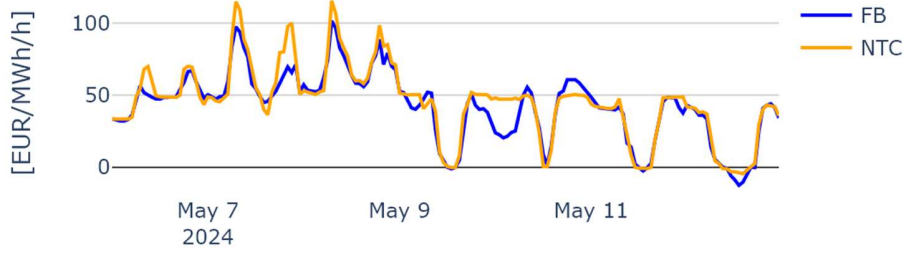




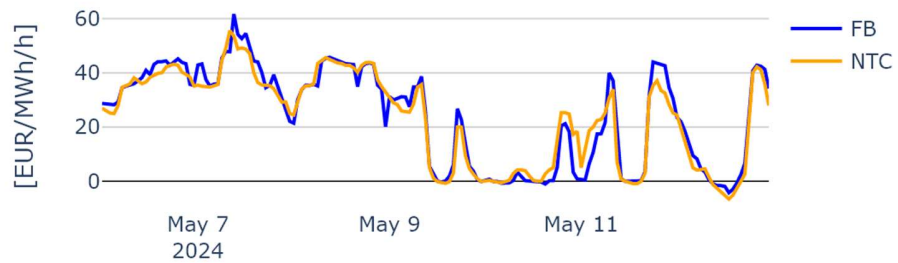
NO4 price



NO5 price

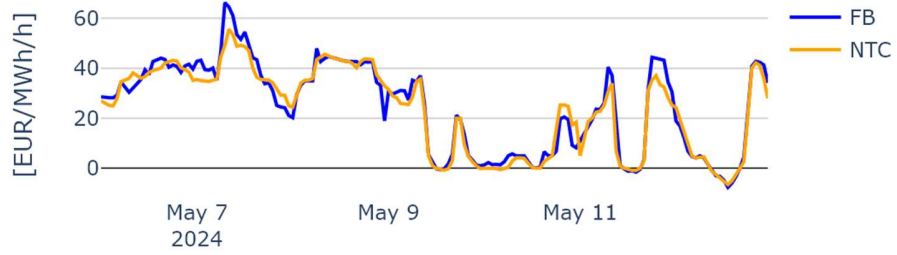


SE1 price

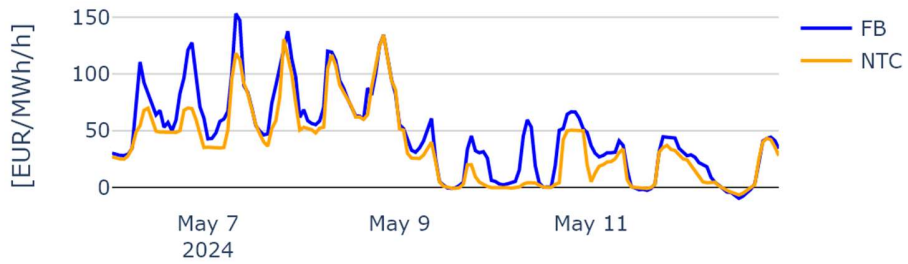




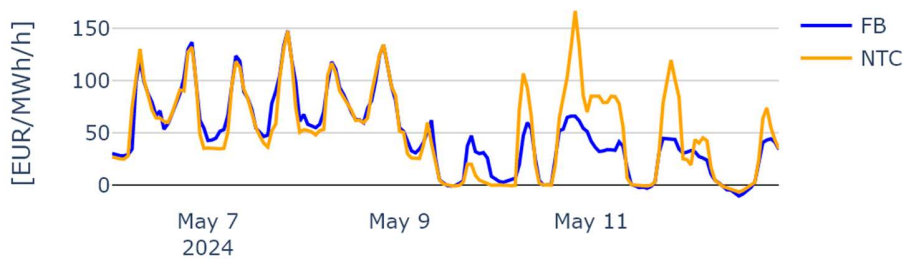
SE2 price



SE3 price



SE4 price

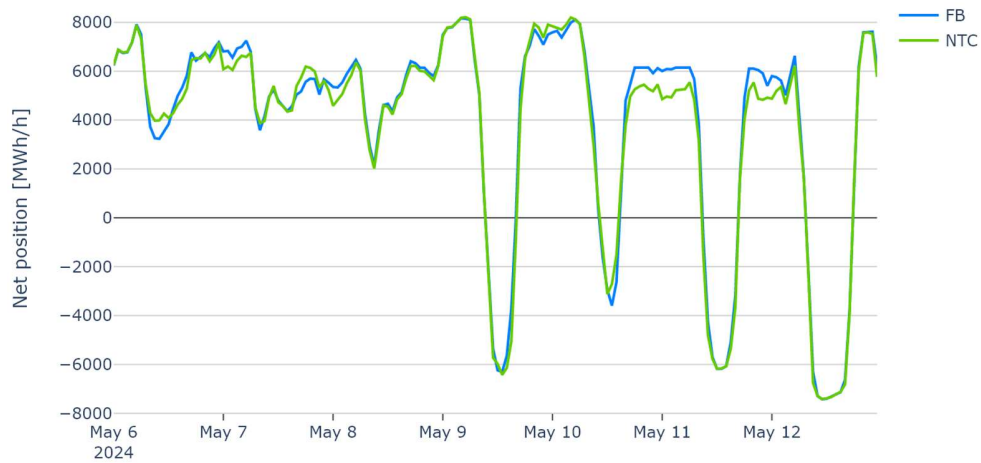




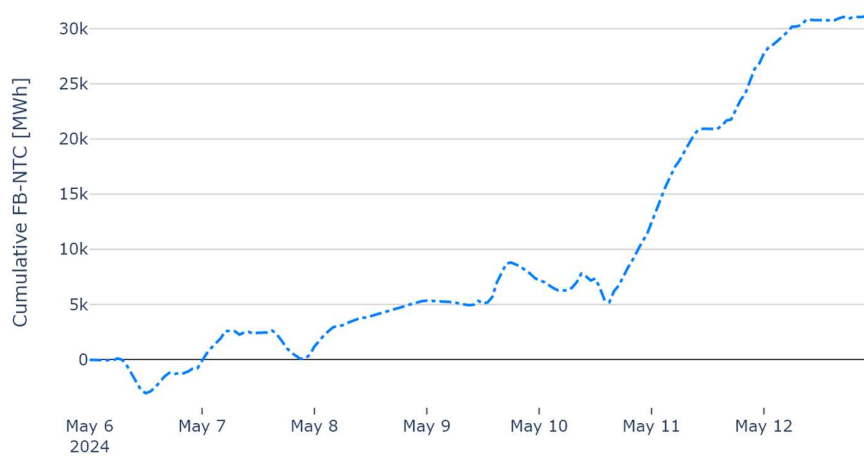
Net positions

Nordics

Total Net Position Nordics

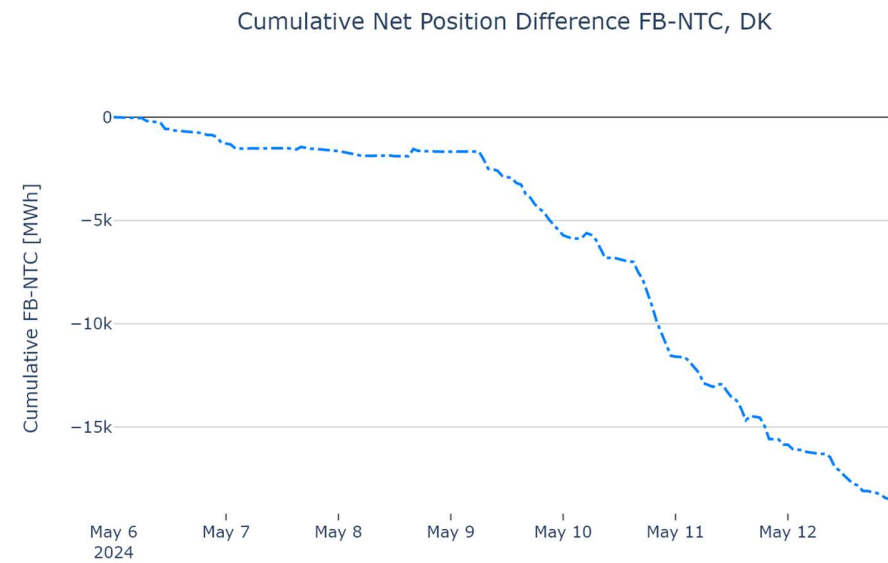
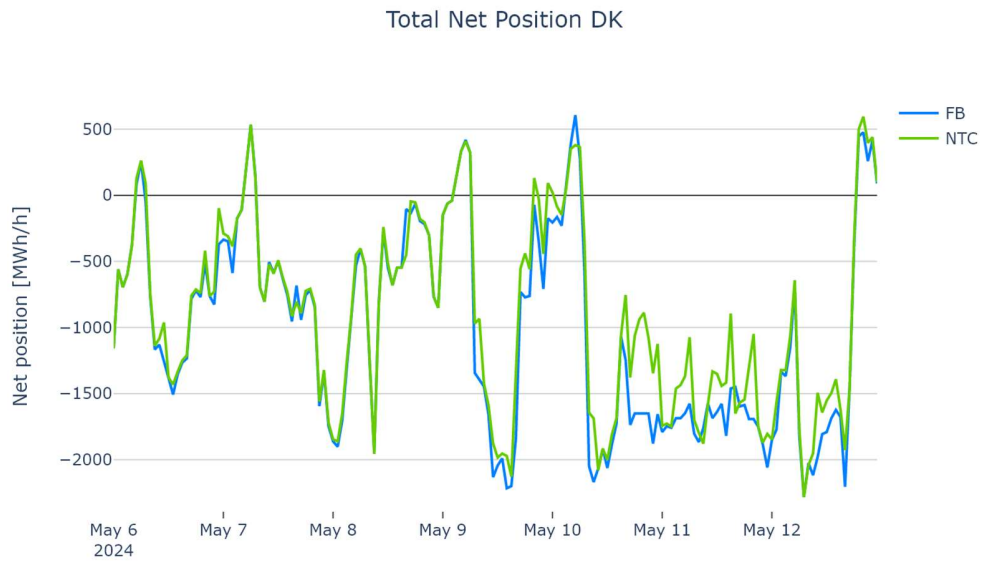


Cumulative Net Position Difference FB-NTC, Nordics



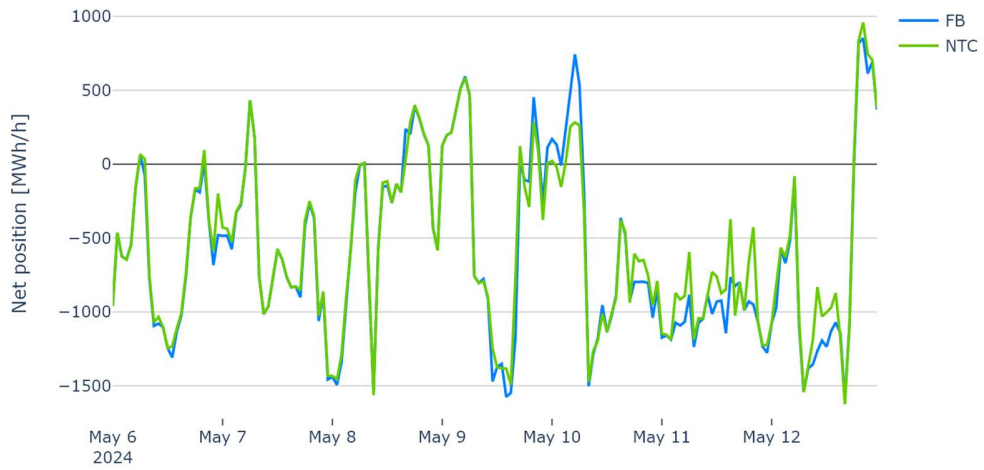


Denmark





Net Position DK1

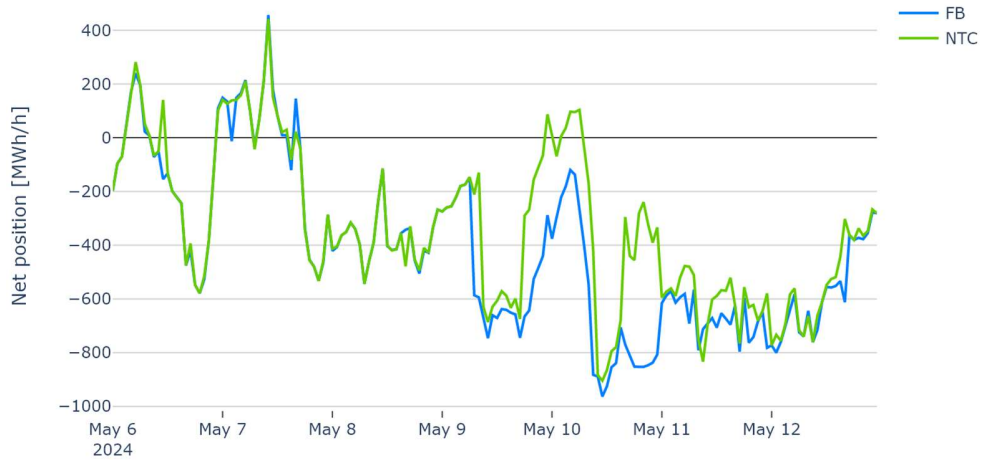


Cumulative Net Position Difference FB-NTC, DK1

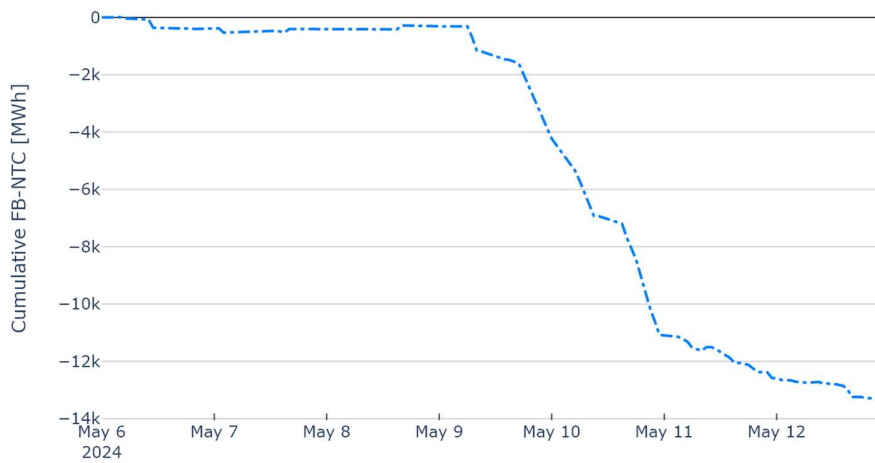




Net Position DK2



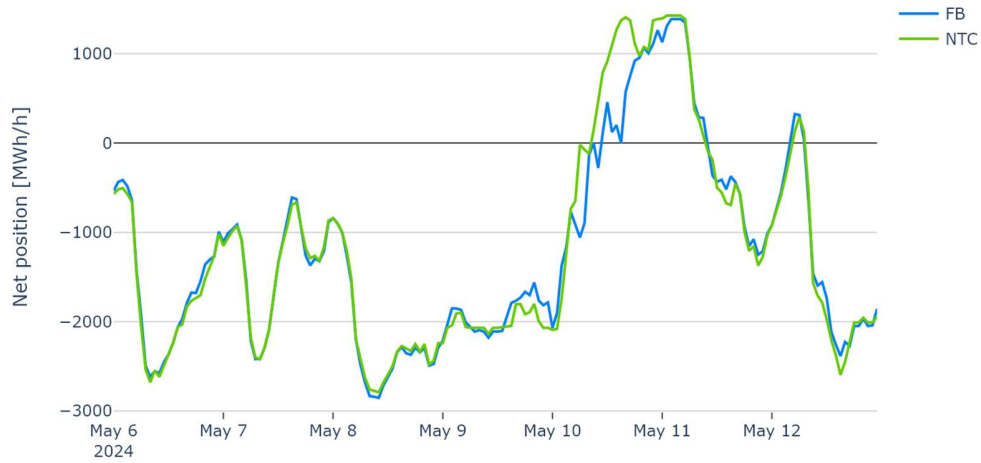
Cumulative Net Position Difference FB-NTC, DK2



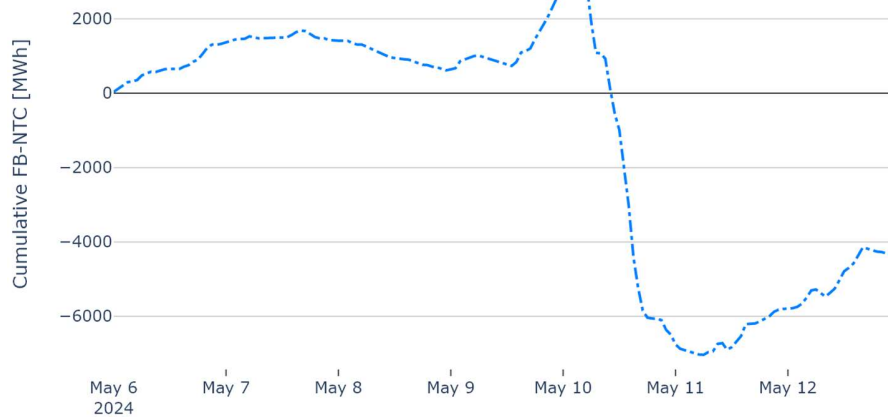


Finland

Total Net Position FI



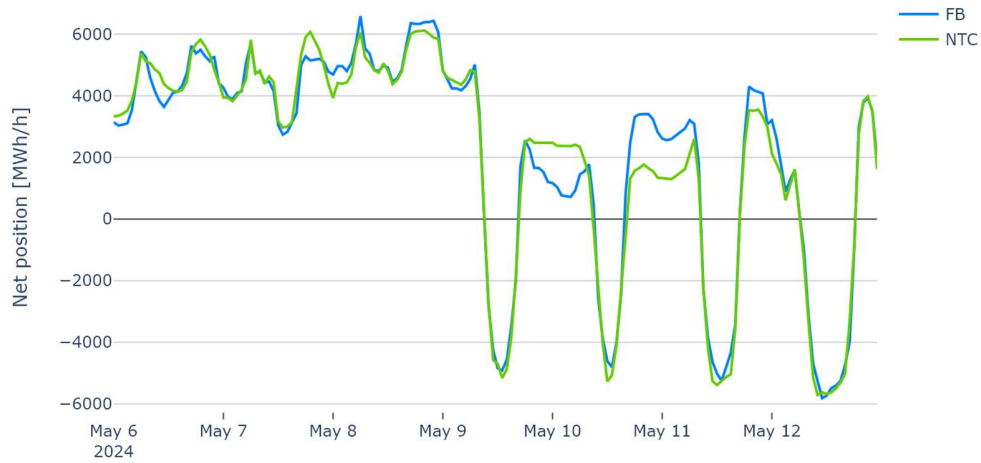
Cumulative Net Position Difference FB-NTC, FI



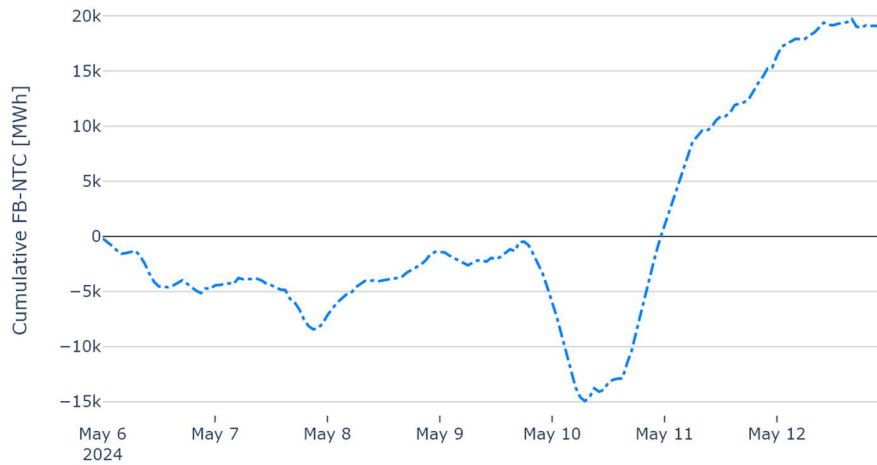


Norway

Total Net Position NO

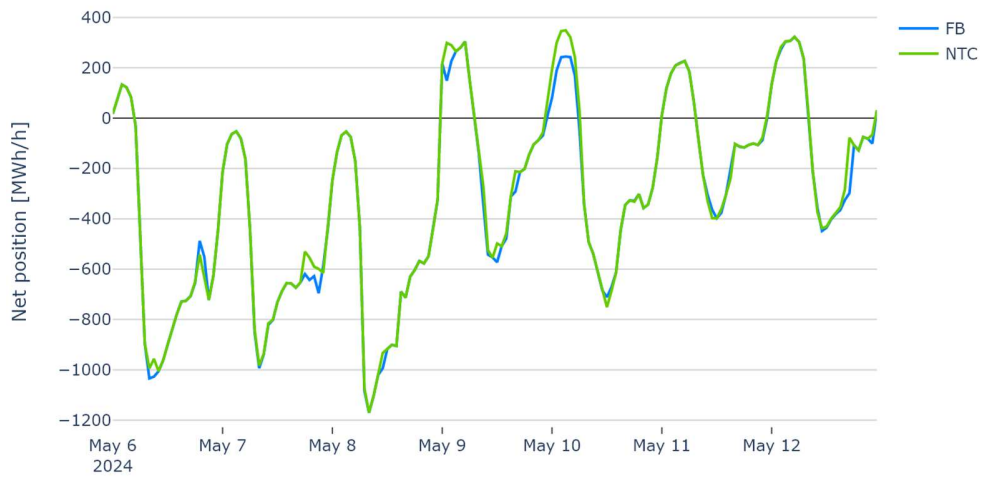


Cumulative Net Position Difference FB-NTC, NO





Net Position NO1

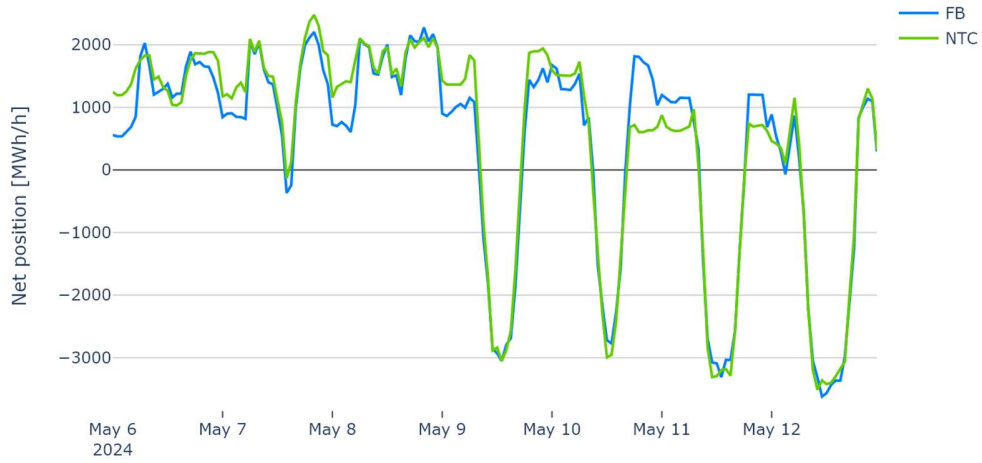


Cumulative Net Position Difference FB-NTC, NO1





Net Position NO2

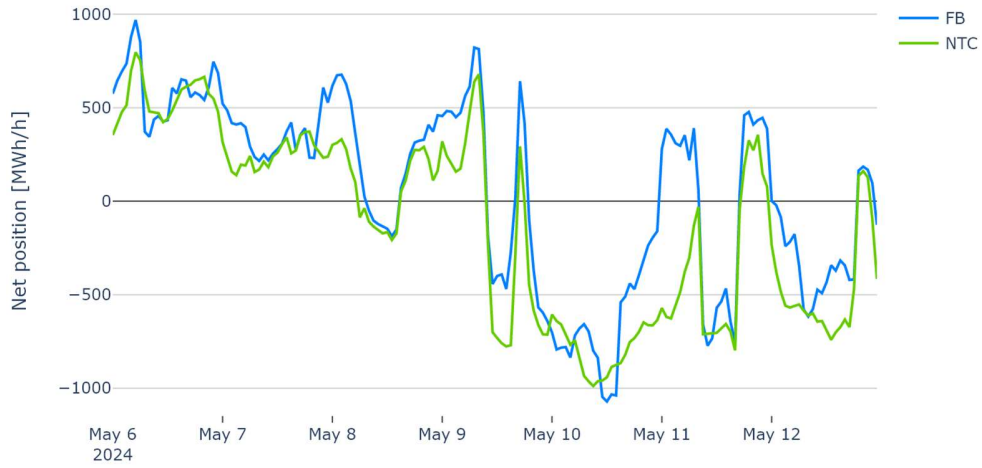


Cumulative Net Position Difference FB-NTC, NO2

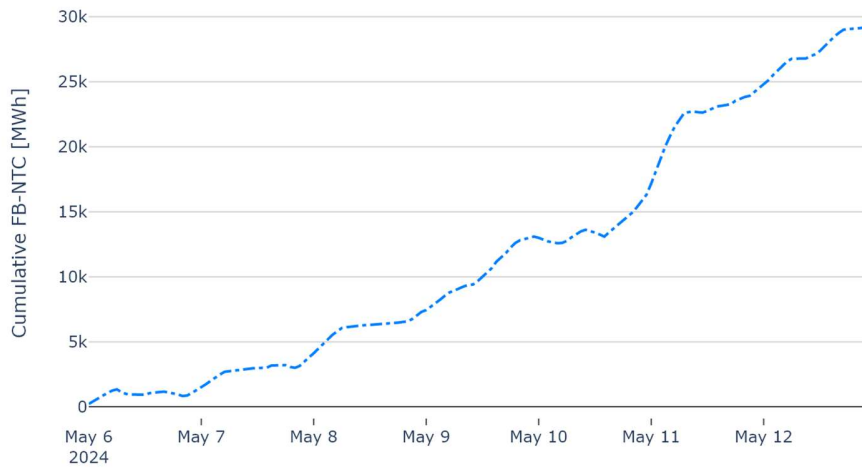




Net Position NO3

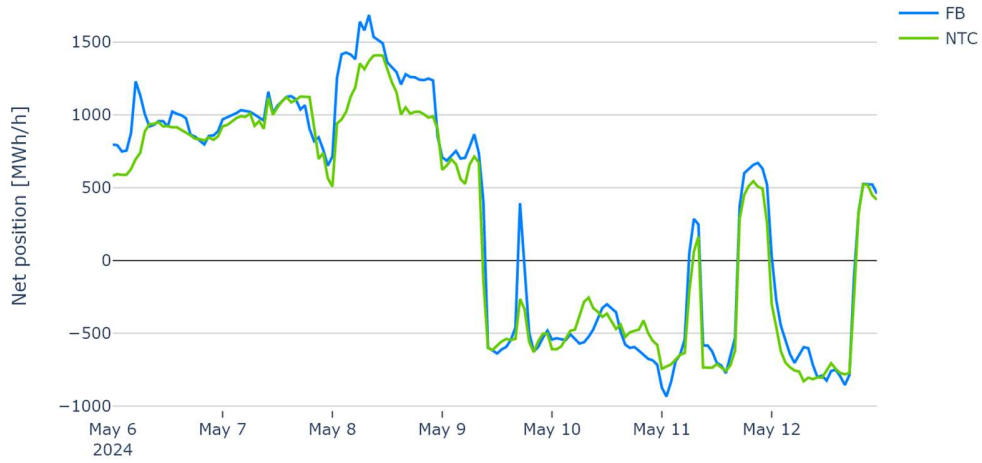


Cumulative Net Position Difference FB-NTC, NO3





Net Position NO4

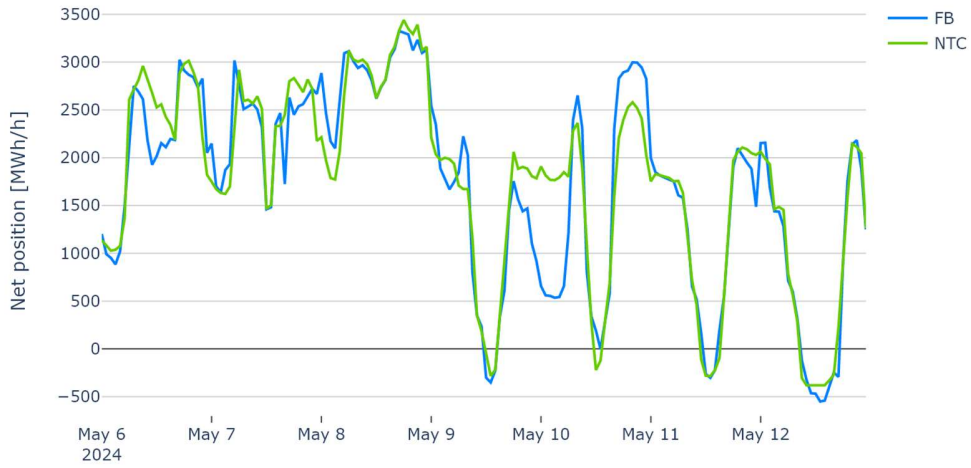


Cumulative Net Position Difference FB-NTC, NO4

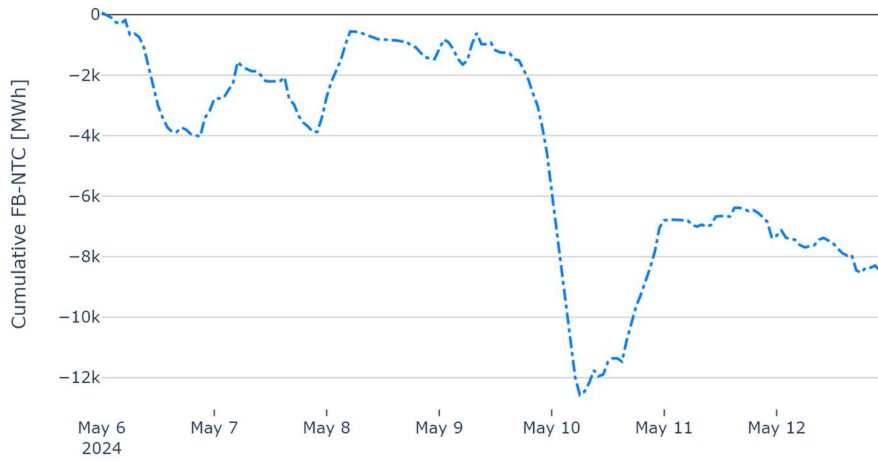




Net Position NO5



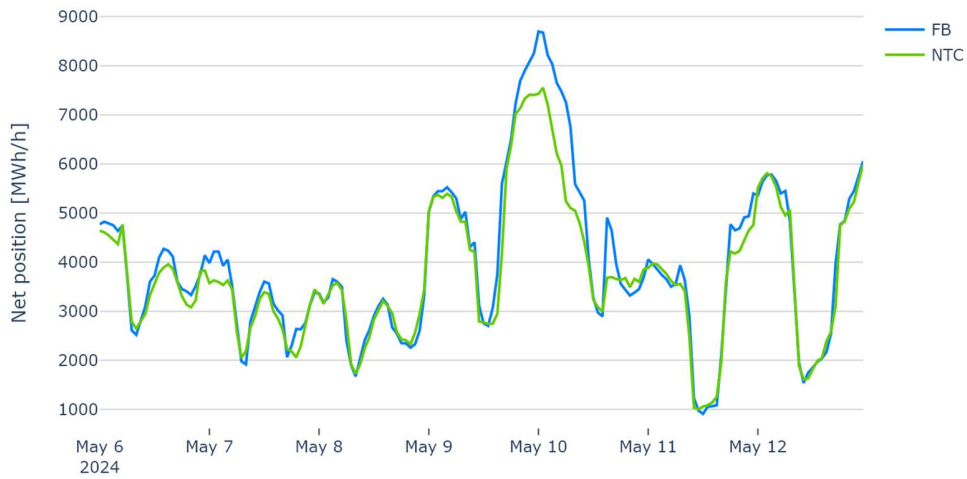
Cumulative Net Position Difference FB-NTC, NO5



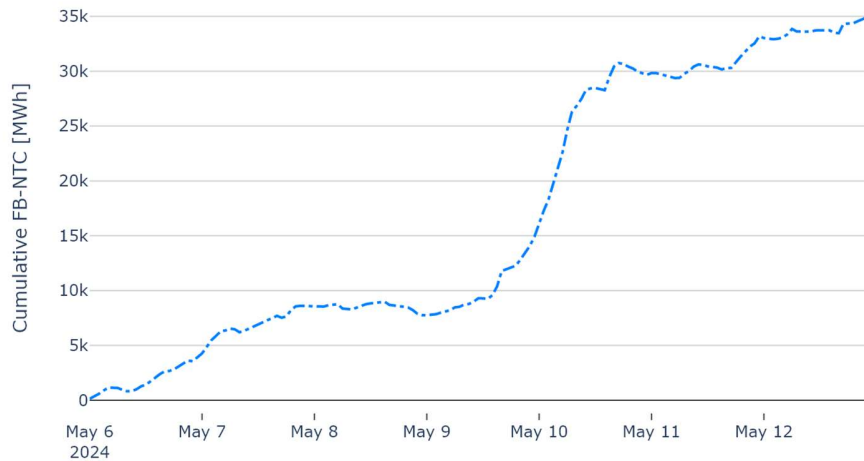


Sweden

Total Net Position SE

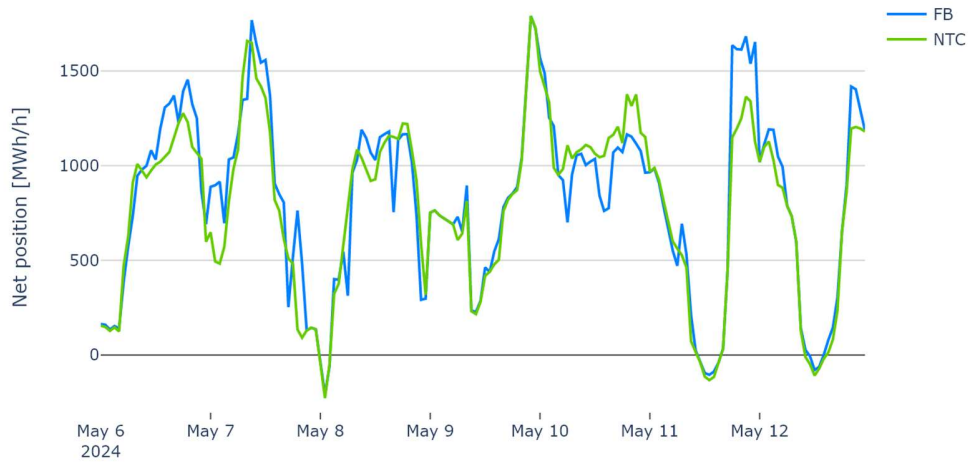


Cumulative Net Position Difference FB-NTC, SE



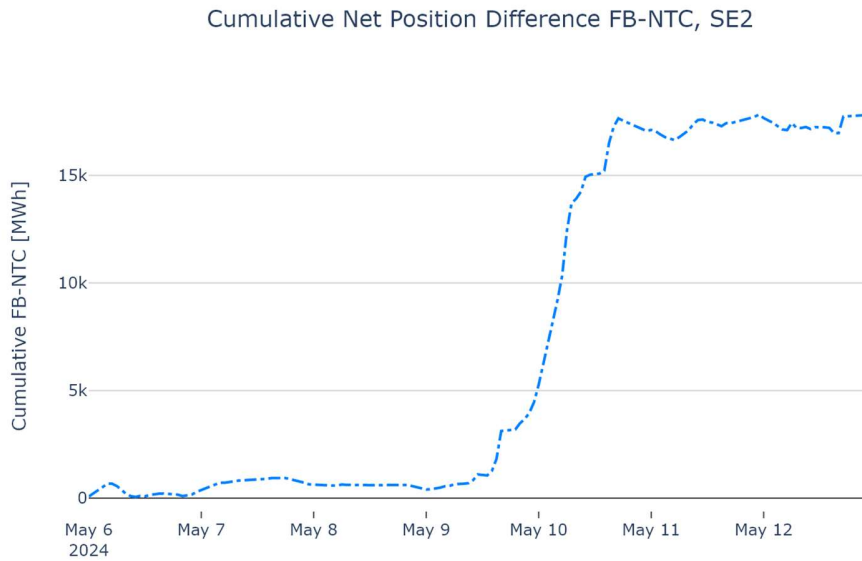
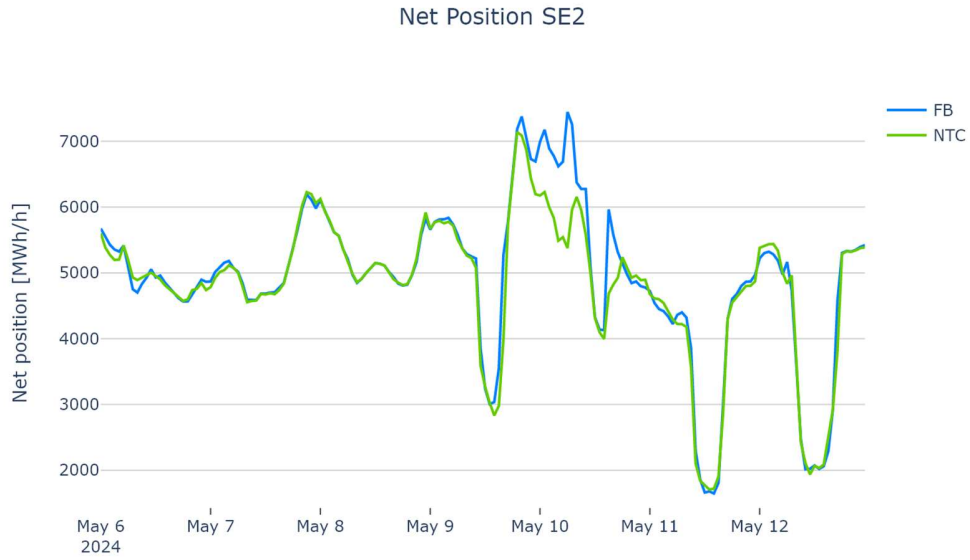


Net Position SE1



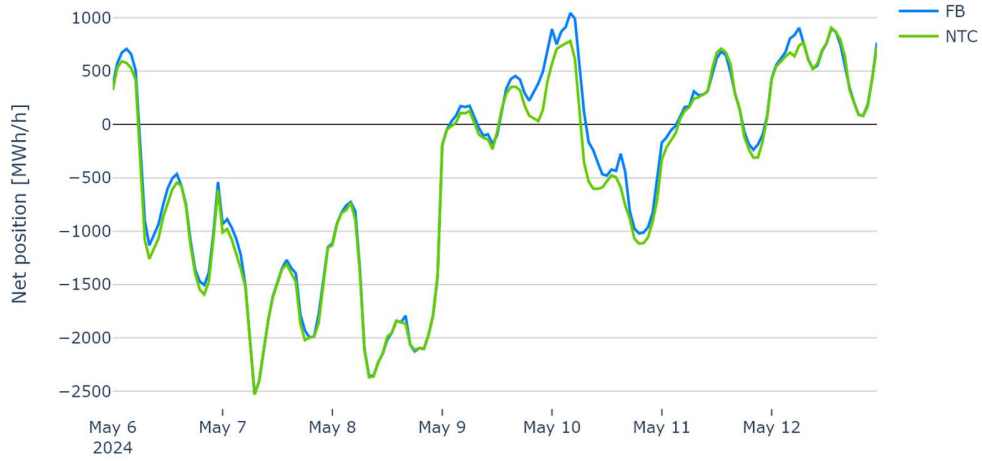
Cumulative Net Position Difference FB-NTC, SE1



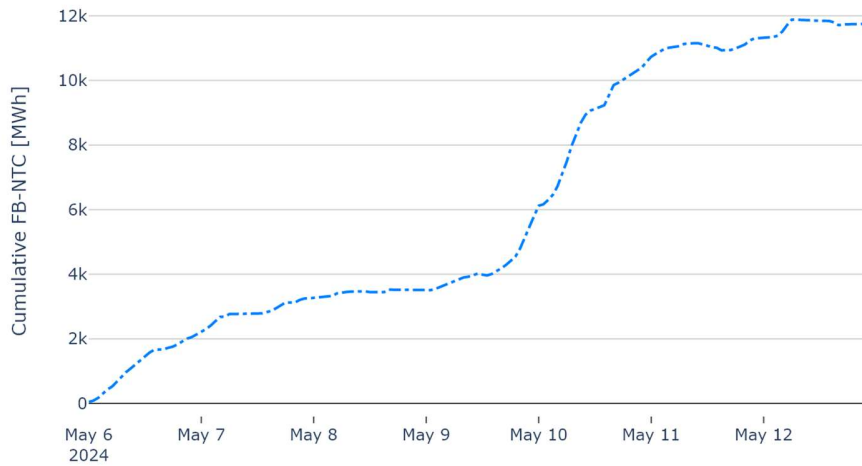


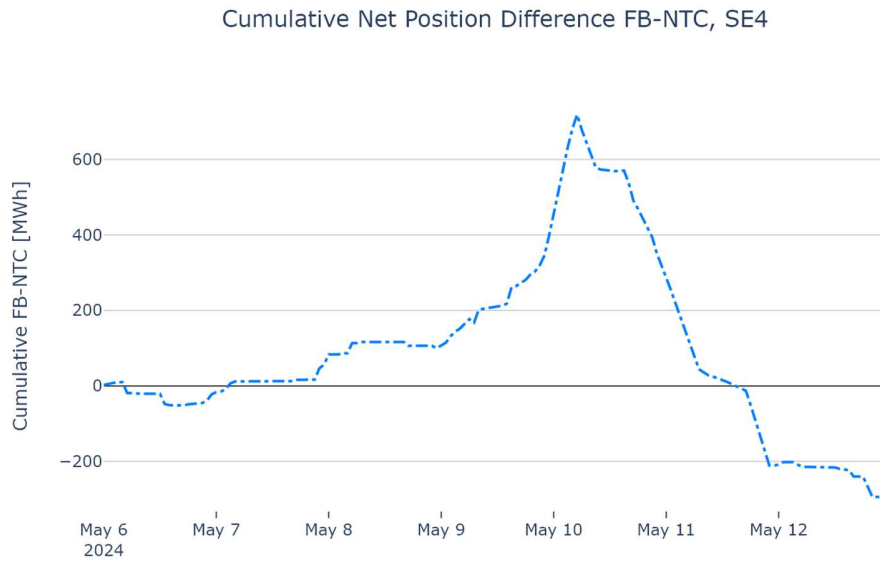
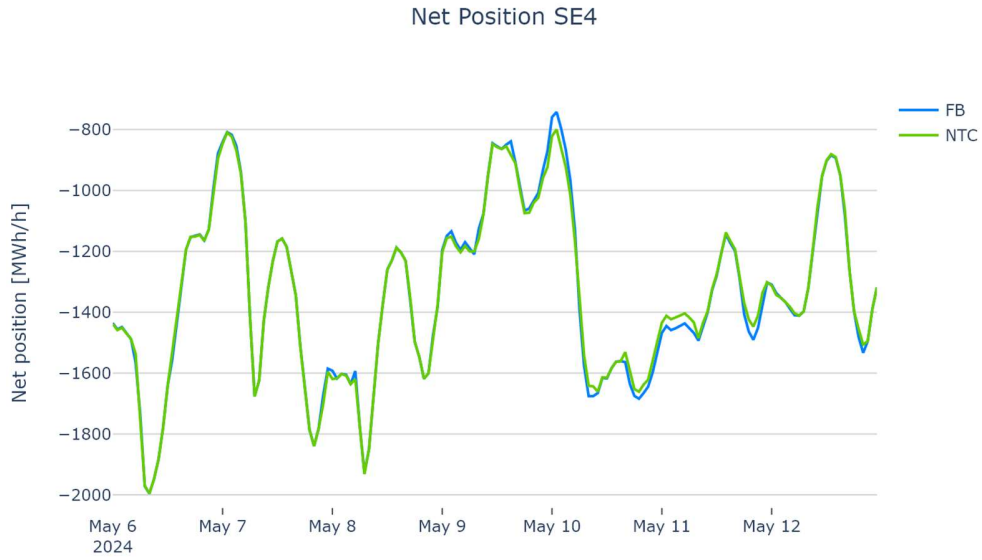


Net Position SE3



Cumulative Net Position Difference FB-NTC, SE3



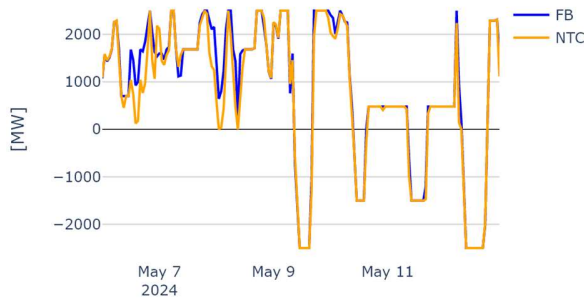




Border flow

The flows present here, both in FB and NTC, represent the physical flow on the lines and are calculated as the product of the NP and the PTDF matrix. When comparing the NTC-results in this report with those present in the DA market there will be a difference as the DA flows are calculated without the use of PTDF matrixes and therefore the flow from DA will not yield the same result.

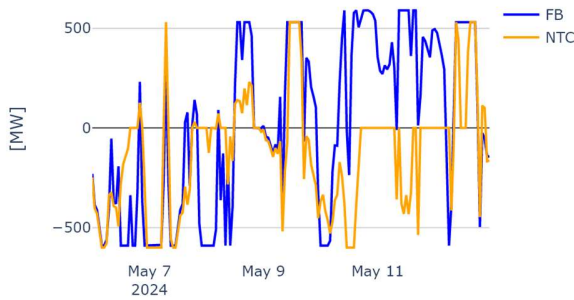
DK1 > DE/LU Physical Flow



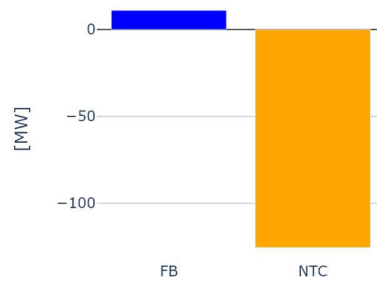
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow



DK1 > DK2 Average flow on border





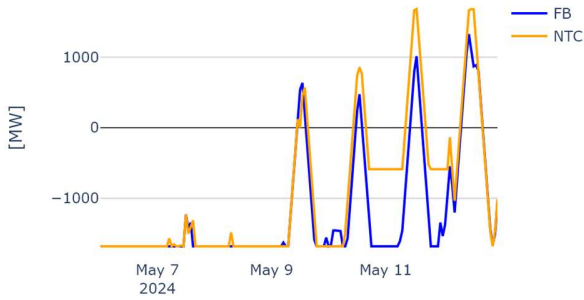
DK1 > NL Physical Flow



DK1 > NL Average flow on border



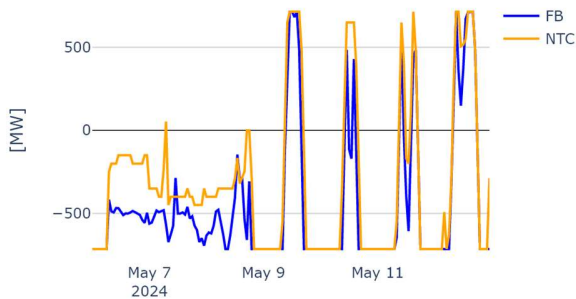
DK1 > NO2 Physical Flow



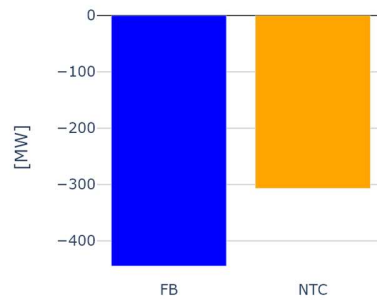
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

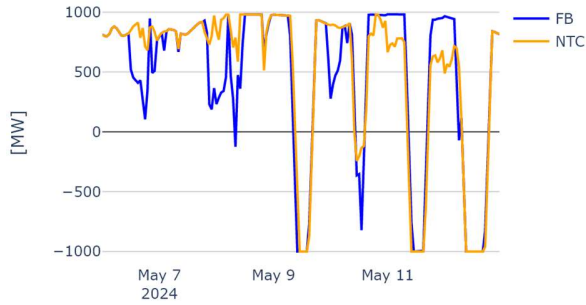


DK1 > SE3 Average flow on border





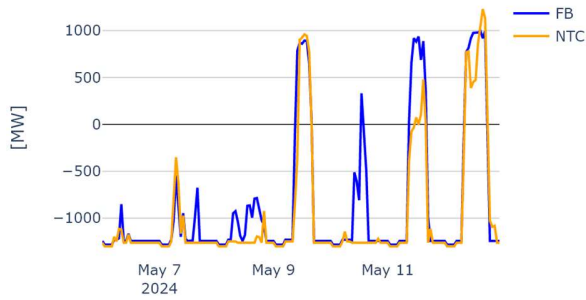
DK2 > DE/LU Physical Flow



DK2 > DE/LU Average flow on border



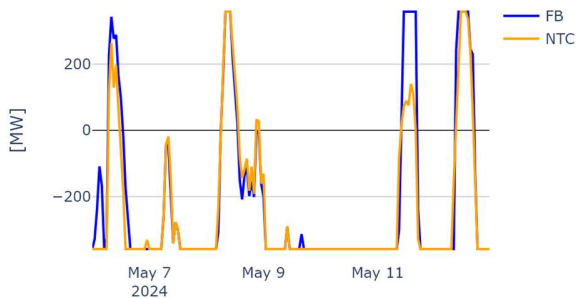
DK2 > SE4 Physical Flow



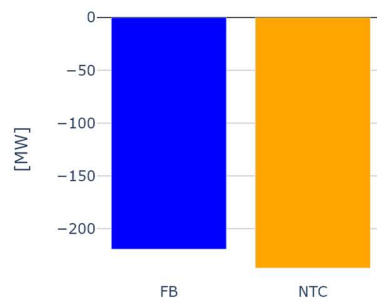
DK2 > SE4 Average flow on border



EE > FI Physical Flow

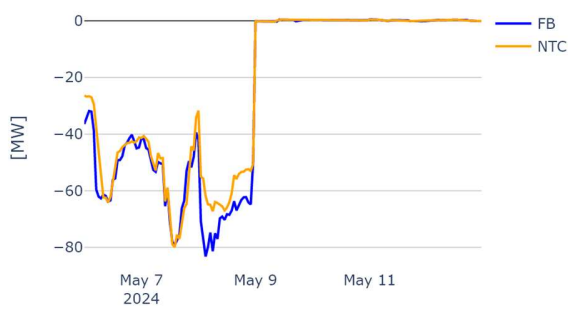


EE > FI Average flow on border

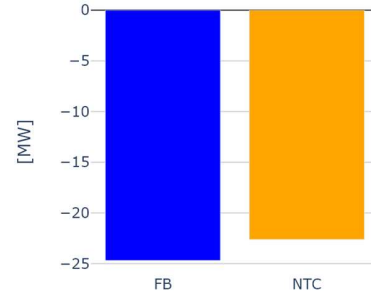




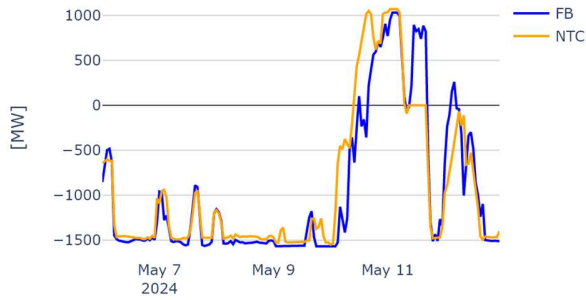
FI > NO4 Physical Flow



FI > NO4 Average flow on border



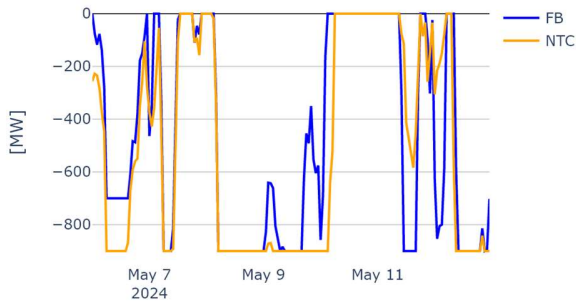
FI > SE1 Physical Flow



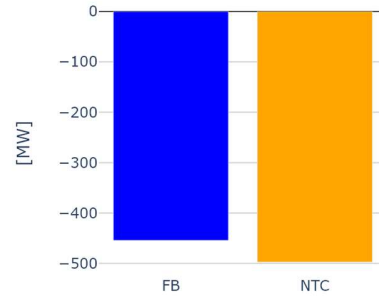
FI > SE1 Average flow on border



FI > SE3 Physical Flow

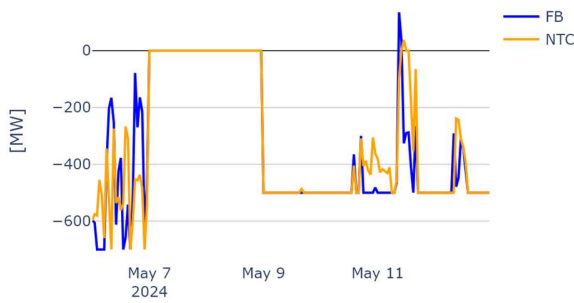


FI > SE3 Average flow on border

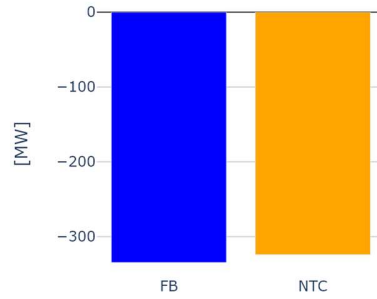




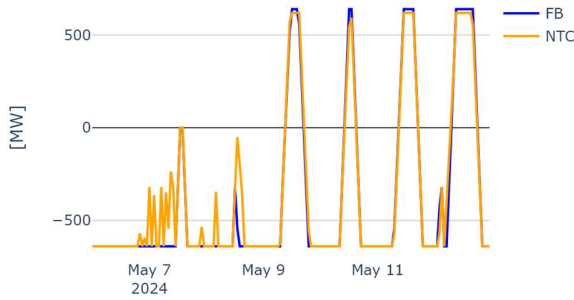
LT > SE4 Physical Flow



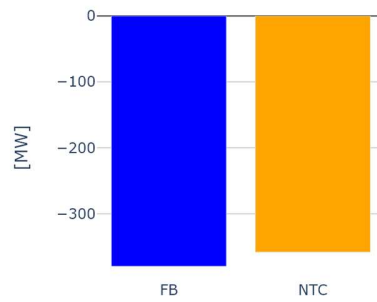
LT > SE4 Average flow on border



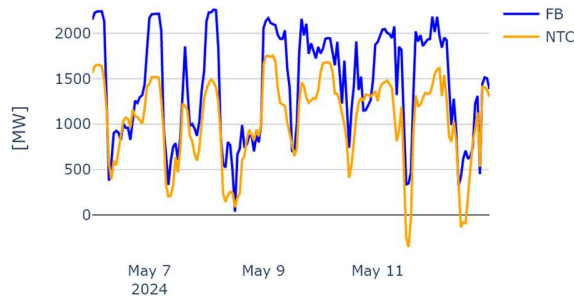
NL > NO2 Physical Flow



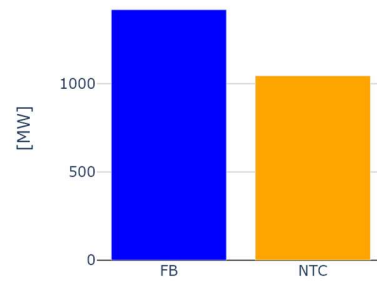
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

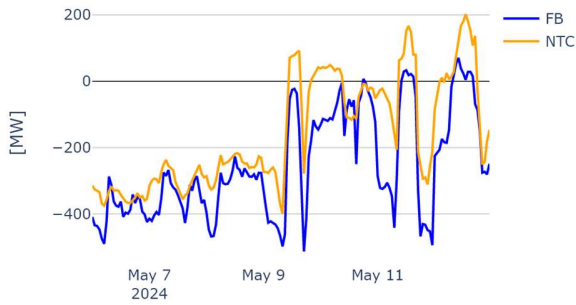


NO1 > NO2 Average flow on border

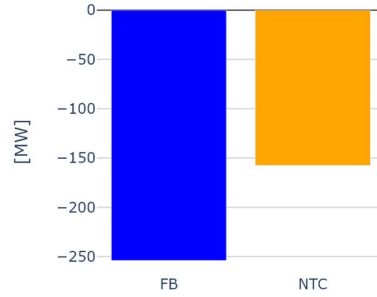




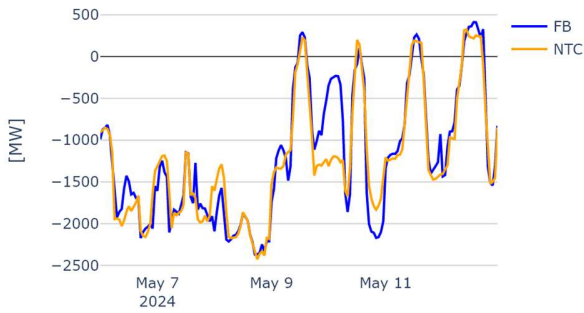
NO1 > NO3 Physical Flow



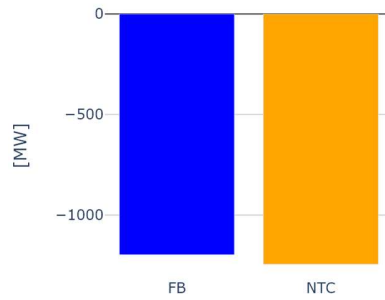
NO1 > NO3 Average flow on border



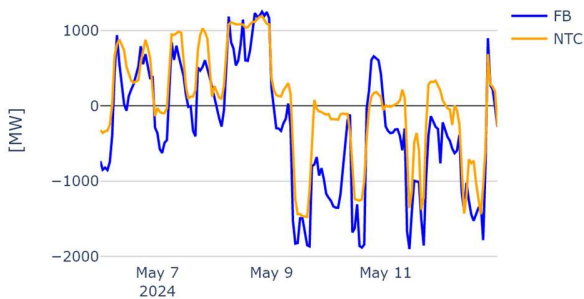
NO1 > NO5 Physical Flow



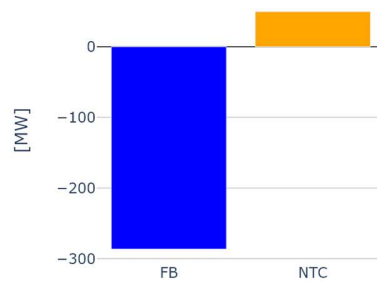
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow

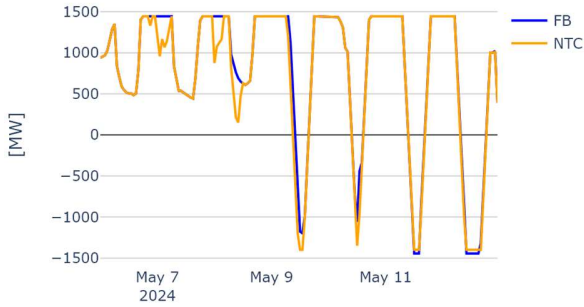


NO1 > SE3 Average flow on border





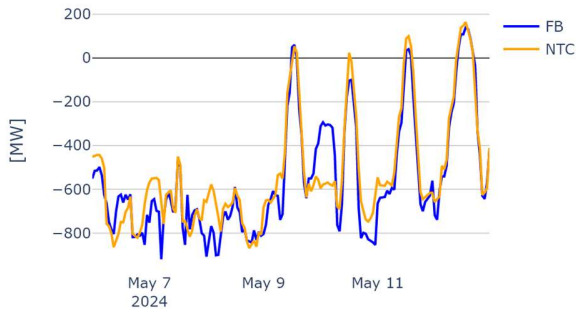
NO2 > DE/LU Physical Flow



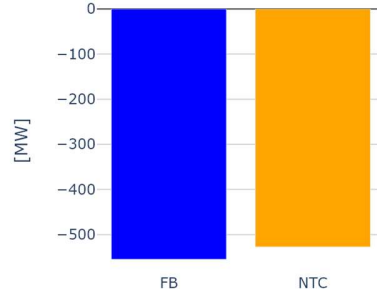
NO2 > DE/LU Average flow on border



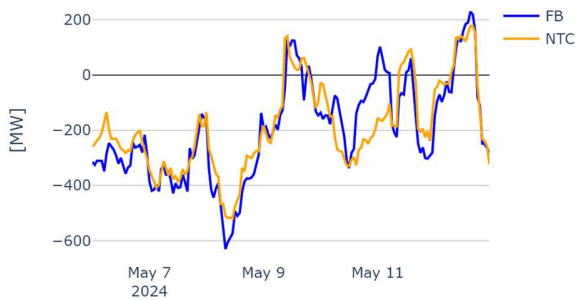
NO2 > NO5 Physical Flow



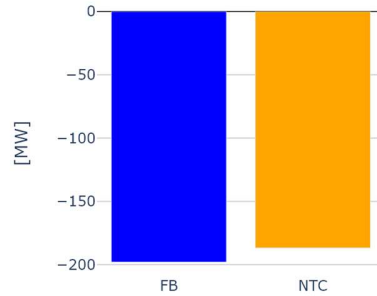
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

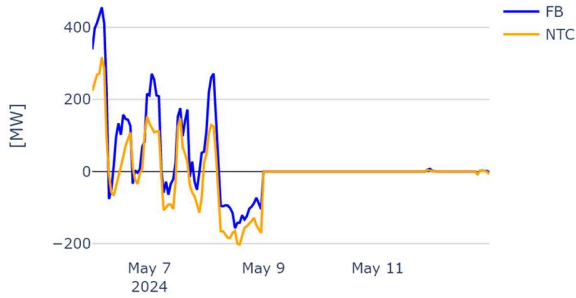


NO3 > NO4 Average flow on border

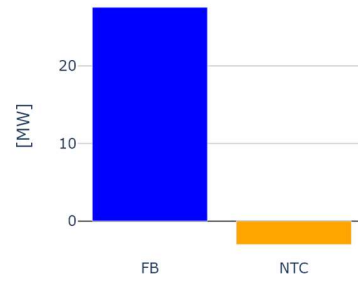




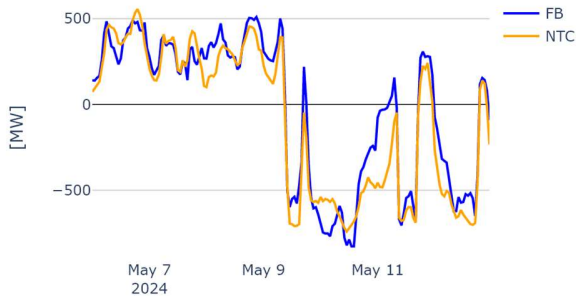
NO3 > NO5 Physical Flow



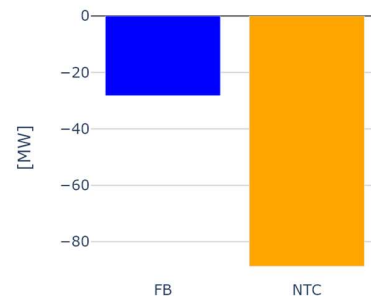
NO3 > NO5 Average flow on border



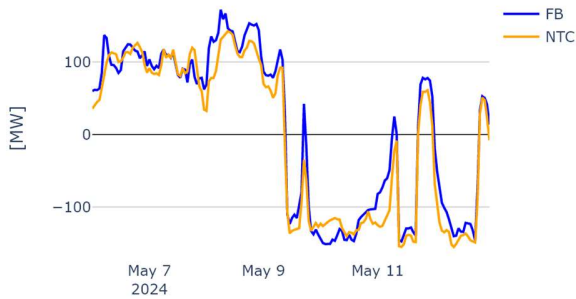
NO3 > SE2 Physical Flow



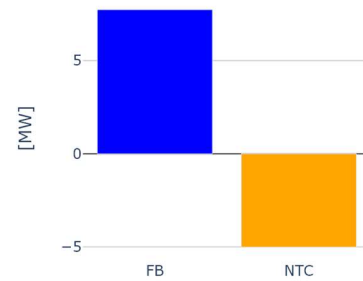
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

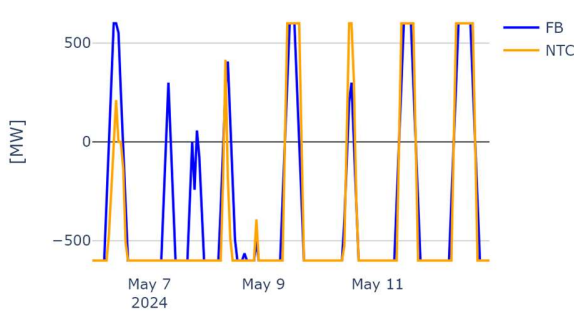


NO4 > SE2 Average flow on border

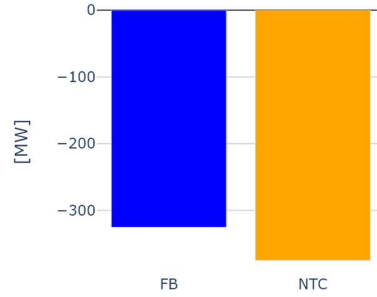




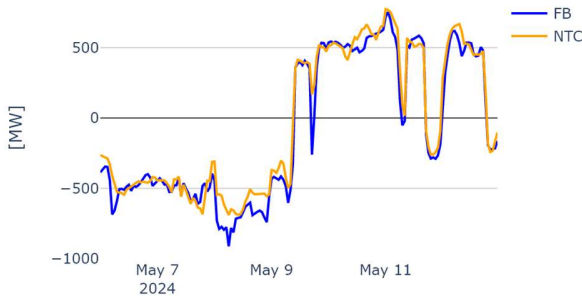
PL > SE4 Physical Flow



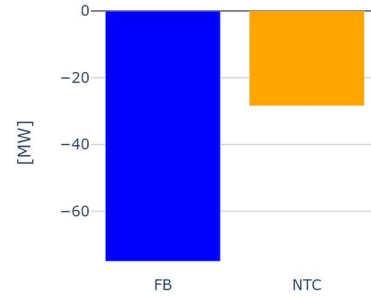
PL > SE4 Average flow on border



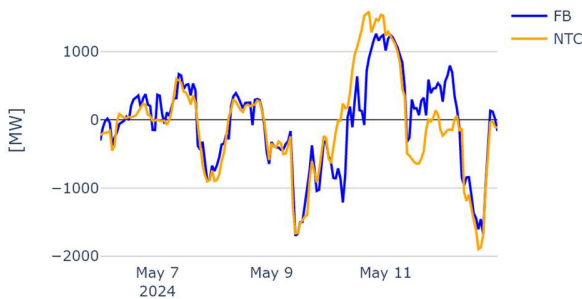
SE1 > NO4 Physical Flow



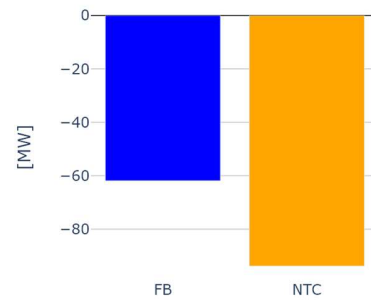
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow

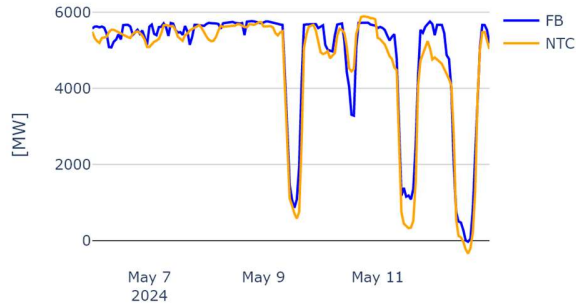


SE1 > SE2 Average flow on border





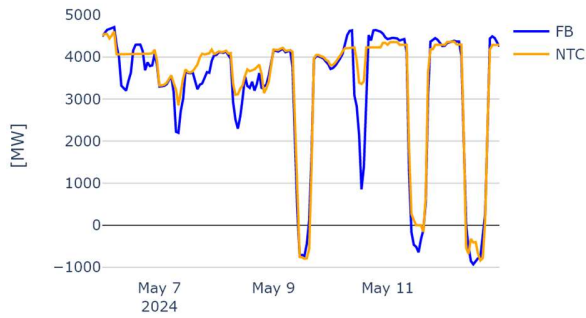
SE2 > SE3 Physical Flow



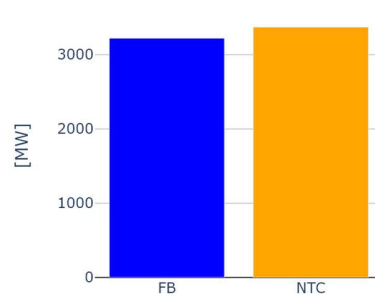
SE2 > SE3 Average flow on border



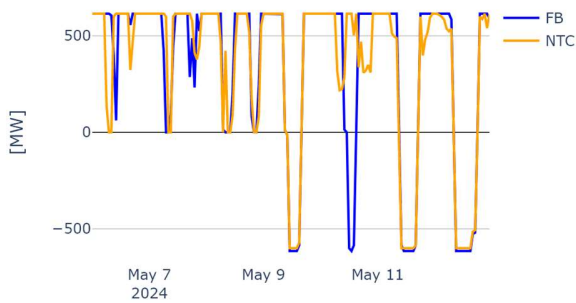
SE3 > SE4 Physical Flow



SE3 > SE4 Average flow on border



SE4 > DE/LU Physical Flow



SE4 > DE/LU Average flow on border





Flows per border (FB)

Values are rounded to the nearest integer.

Border	Congestion Income (total)	Avg. Price Spread
DK1 > DE/LU	2419785	8
DK1 > DK2	66727	1
DK1 > NL	897729	9
DK1 > NO2	4827870	19
DK1 > SE3	2233467	19
DK2 > DE/LU	1351319	9
DK2 > SE4	3904040	18
EE > FI	2194199	36
FI > NO4	198818	24
FI > SE1	5850983	23
FI > SE3	1207573	7
LT > SE4	1973540	24
NL > NO2	2731429	28
NO1 > NO2	1710846	5
NO1 > NO3	482678	12
NO1 > NO5	71970	0
NO1 > SE3	1245605	9
NO2 > DE/LU	5646869	29
NO2 > NO5	480945	5
NO3 > NO4	85228	1
NO3 > NO5	6300	0
NO3 > SE2	360259	3
NO4 > SE2	71049	3
PL > SE4	2708111	27
SE1 > NO4	313363	4
SE1 > SE2	108403	0
SE2 > SE3	21300360	23
SE3 > SE4	601041	1
SE4 > DE/LU	2628413	27



Non-Intuitive flows (FB)

Values are rounded to the nearest integer.

Border	Pct. of non-intuitive flows	Negative congestion income	Avg. price spread for non-intuitive flows
DK1 > DE/LU	0	0	0
DK1 > DK2	22	-30212	-2
DK1 > NL	6	-1525	0
DK1 > NO2	11	-61909	-7
DK1 > SE3	18	-73729	-5
DK2 > DE/LU	7	-1393	0
DK2 > SE4	17	-28788	-1
EE > FI	4	-117	0
FI > NO4	18	-1487	-7
FI > SE1	11	-2123	0
FI > SE3	17	-109816	-10
LT > SE4	3	-1121	-1
NL > NO2	1	-83	-1
NO1 > NO2	2	-903	0
NO1 > NO3	8	-5916	-6
NO1 > NO5	45	-172617	-3
NO1 > SE3	17	-63768	-5
NO2 > DE/LU	3	-13821	-10
NO2 > NO5	9	-545	0
NO3 > NO4	38	-56983	-6
NO3 > NO5	38	-38628	-17
NO3 > SE2	40	-206973	-9
NO4 > SE2	40	-30321	-4
PL > SE4	13	-480278	-50
SE1 > NO4	34	-164228	-5
SE1 > SE2	42	-60821	-2
SE2 > SE3	13	-15129	-1
SE3 > SE4	35	-468006	-3
SE4 > DE/LU	4	-409	-4