



Nordic Capacity Calculation Methodology Project (Nordic CCM)

# Nordic CCM

External Parallel Run Market Report  
Appendix for Week 11 of 2024



# Appendix

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### Domain validation

Energy Delivery Day:	Mon. 11.3.	Tue. 12.3.	Wed. 13.3.	Thu. 14.3.	Fri. 15.3.	Sat. 16.3.	Sun. 17.3.
<b>Invalid/missing IGMs</b>	0	0	0	0	0	0	0
<b>Substituted IGMs</b>	0	0	0	0	0	0	0
<b>Invalid CGMs</b>	0	0	0	0	0	0	0
<b>FB domain back-up</b>	0	0	0	0	0	0	0
<b>FAV provision</b>	1	0	0	0	0	0	0
<b>Final domain acceptance (1 TSO =25%)</b>	100%	100%	100%	100%	100%	100%	100%

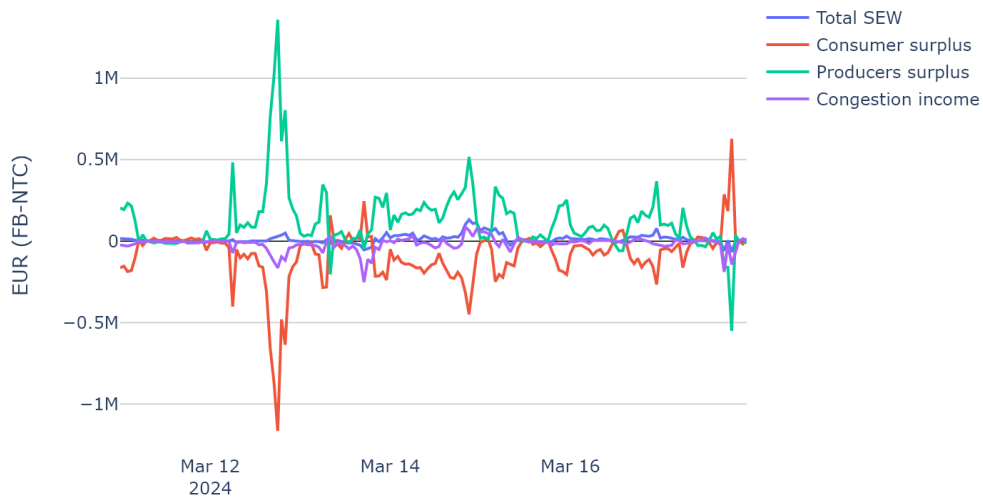


## Socio Economic Welfare

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.

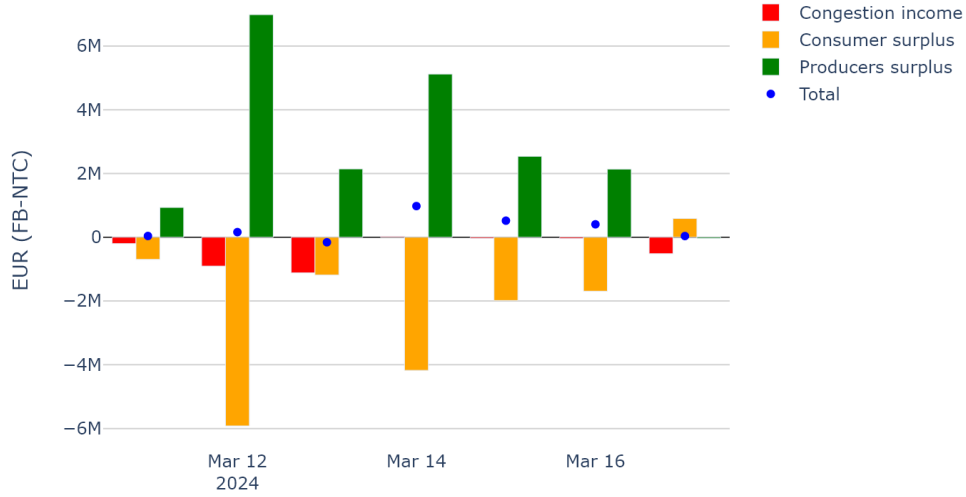
### Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

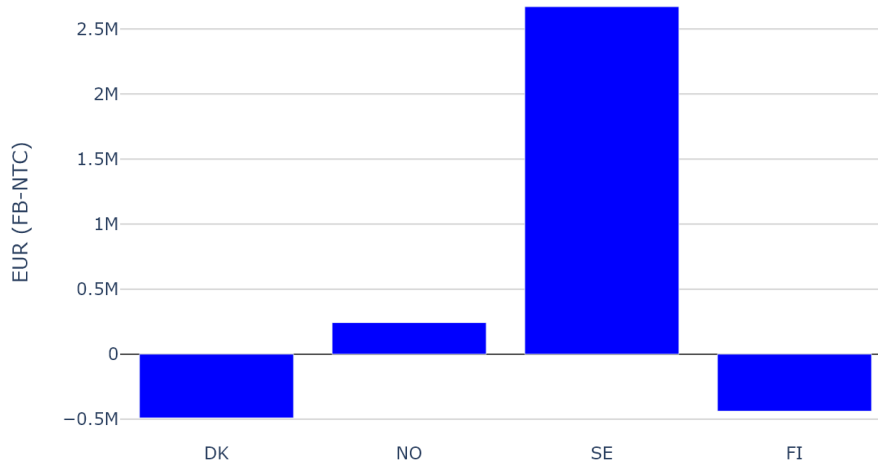




Nordics socio-economic welfare per stakeholder and day

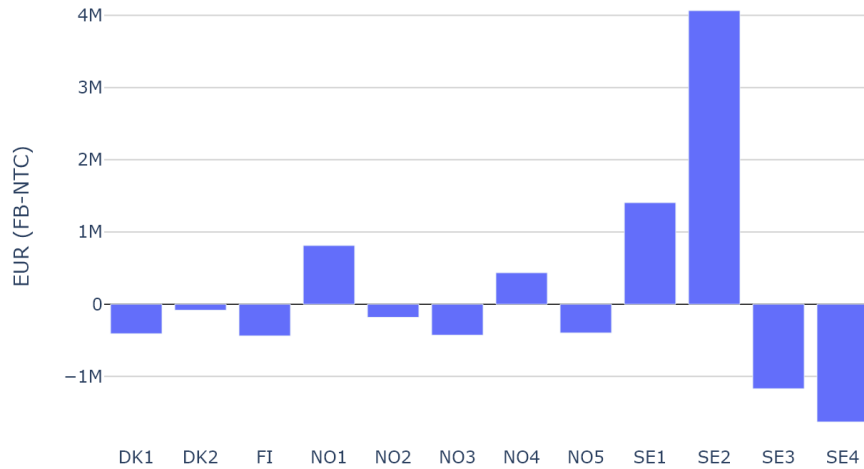


Total Nordic socio-economic welfare per country





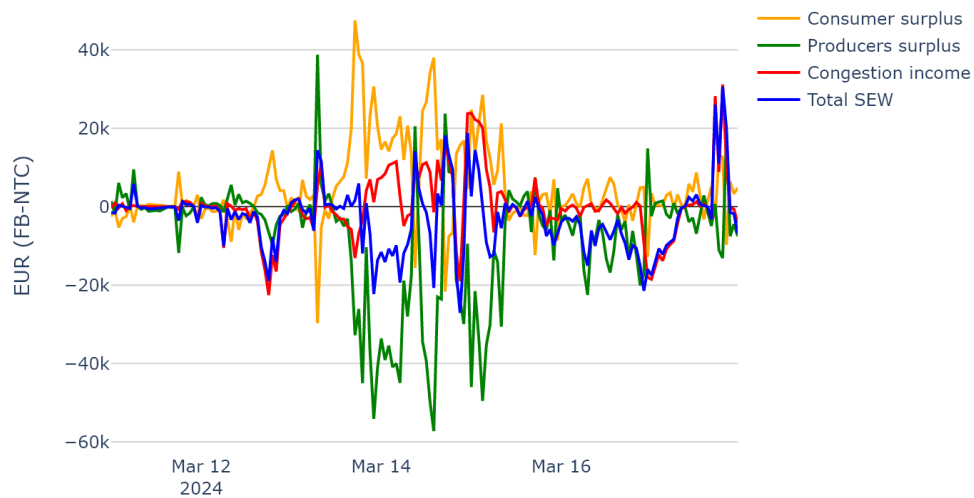
Socio economic welfaregain FB-NTC per BZ - Total\_sew



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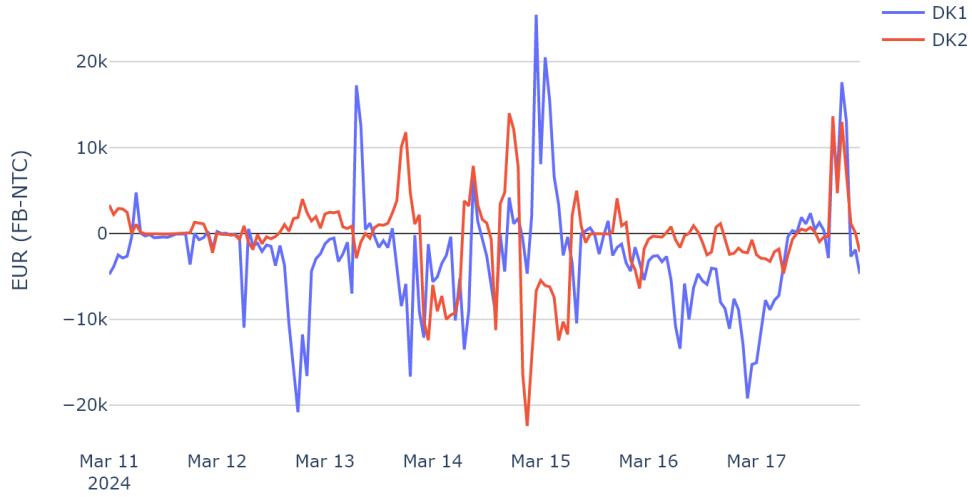
## Denmark

DK, socio-economic welfare per stakeholder and country

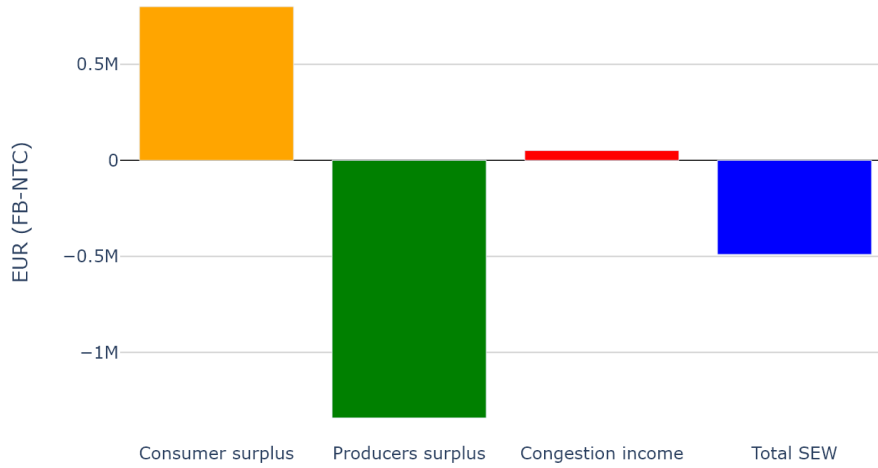




Total socio economic welfaregain FB-NTC per BZ in DK



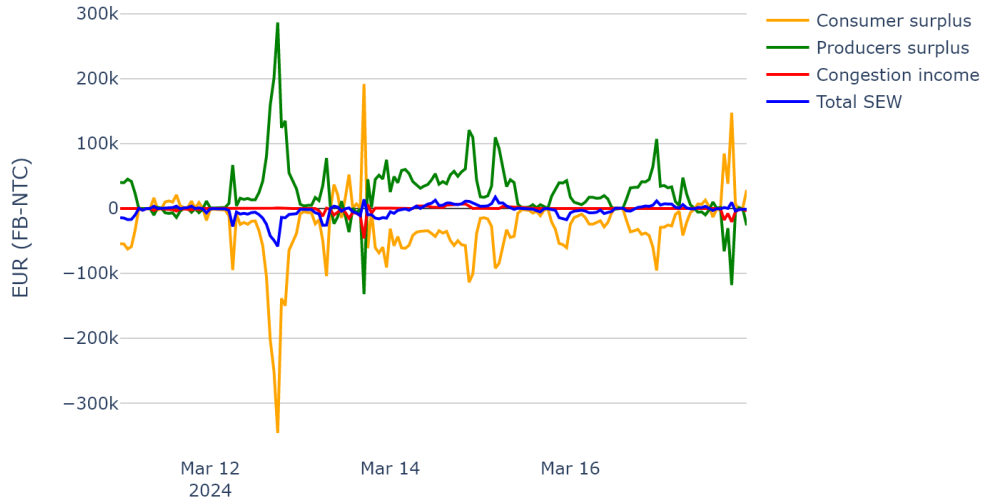
DK, socio-economic welfare per stakeholder and country



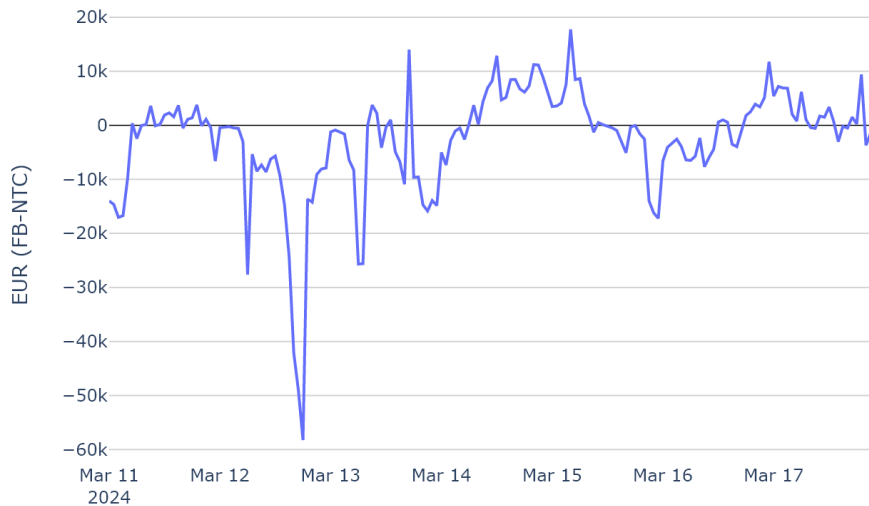


## Finland

FI, socio-economic welfare per stakeholder and country

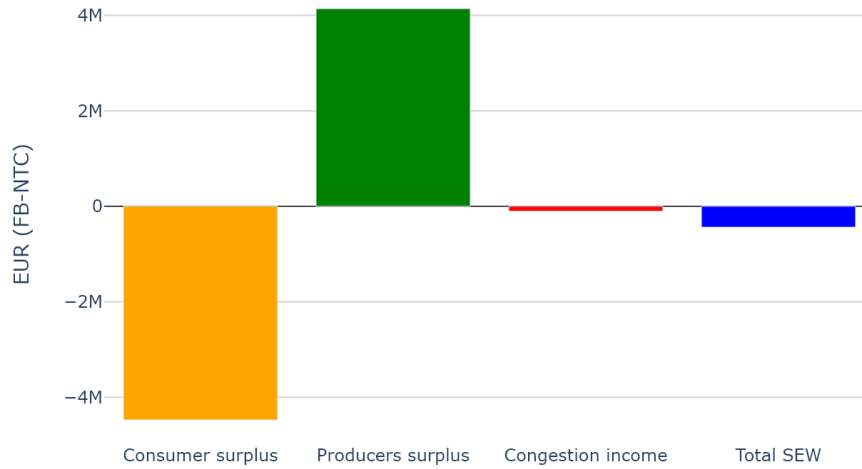


Total socio economic welfaregain FB-NTC per BZ in FI





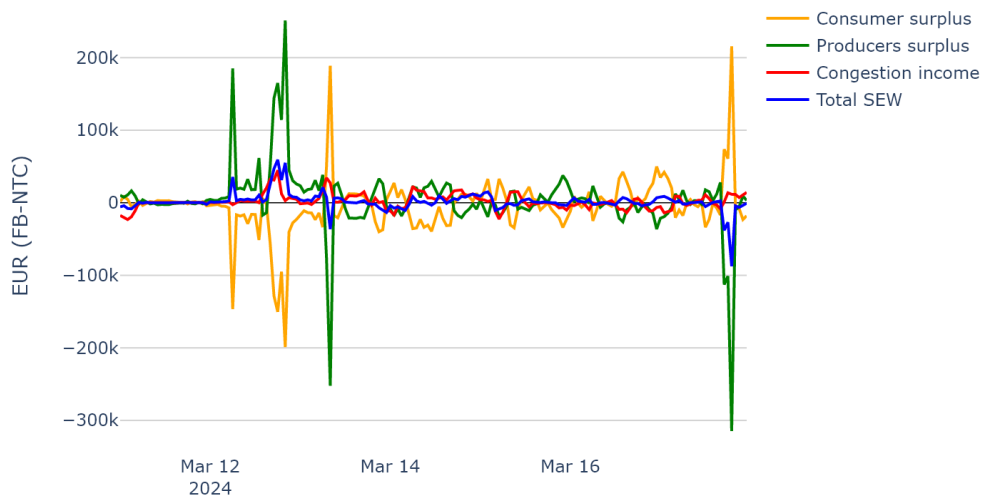
FI, socio-economic welfare per stakeholder and country



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## Norway

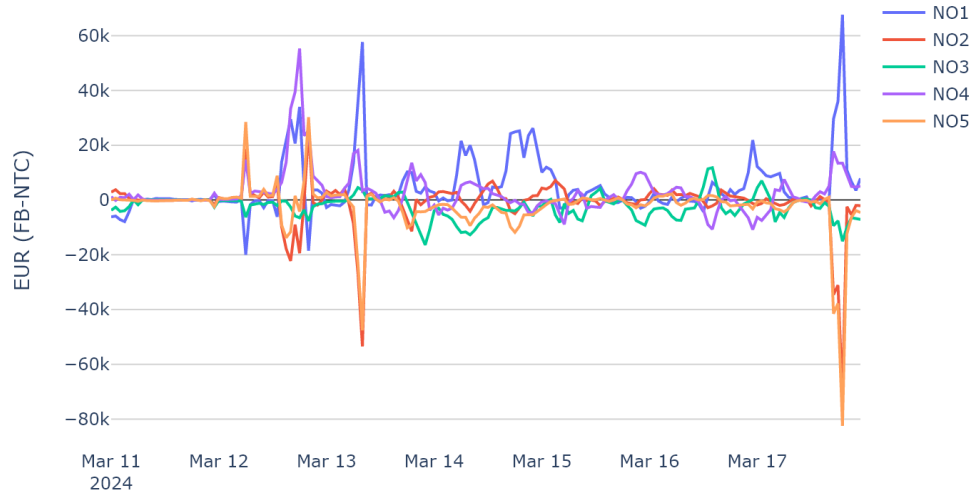
NO, socio-economic welfare per stakeholder and country



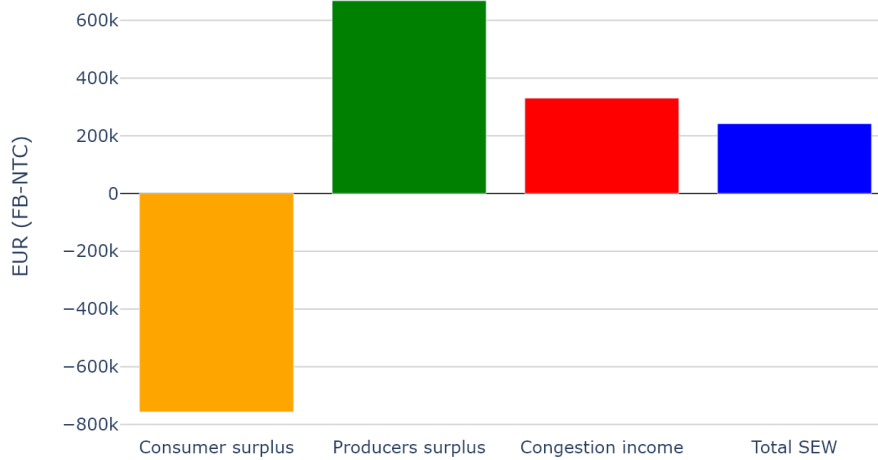




Total socio economic welfaregain FB-NTC per BZ in NO



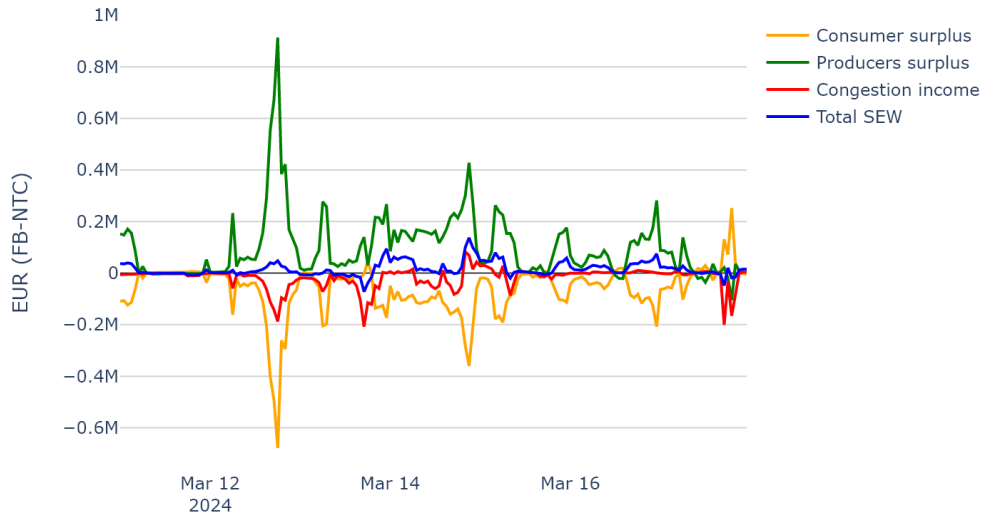
NO, socio-economic welfare per stakeholder and country



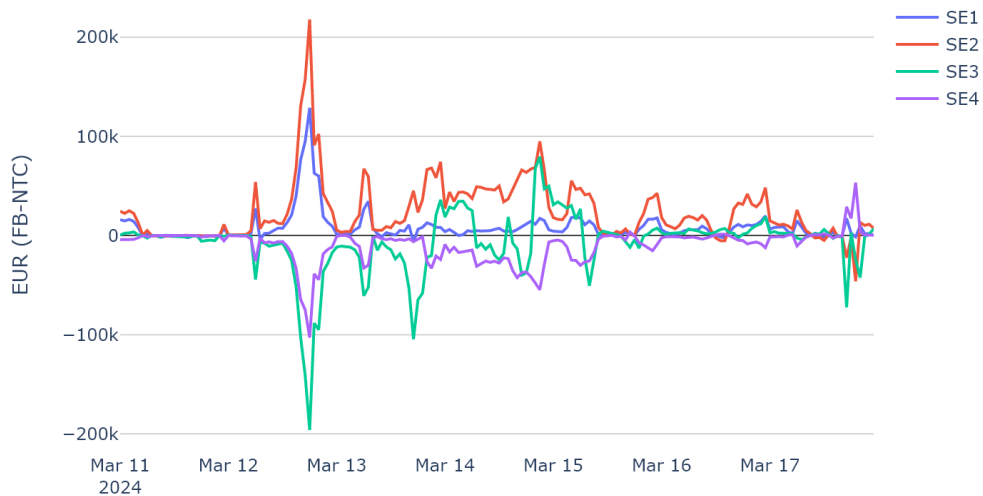


## Sweden

SE, socio-economic welfare per stakeholder and country

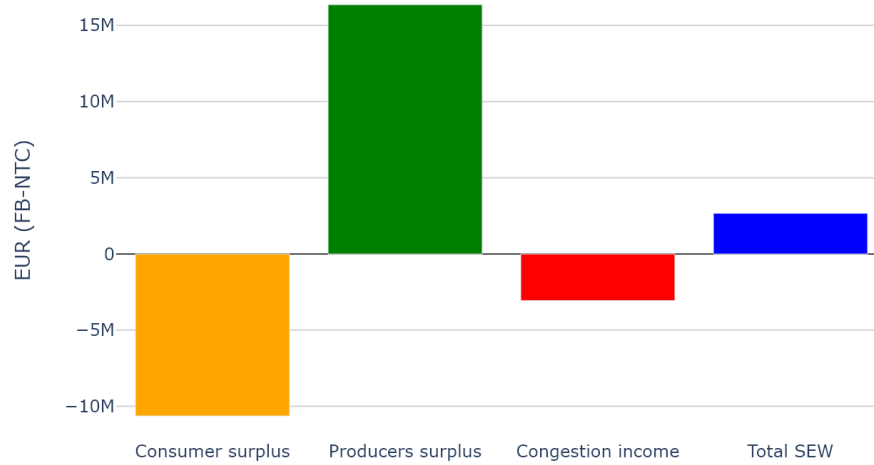


Total socio economic welfaregain FB-NTC per BZ in SE





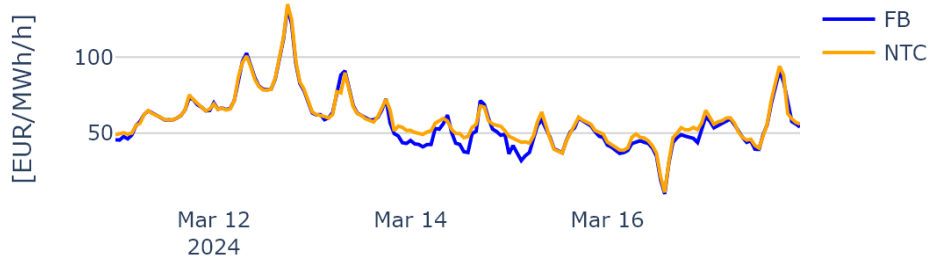
SE, socio-economic welfare per stakeholder and country



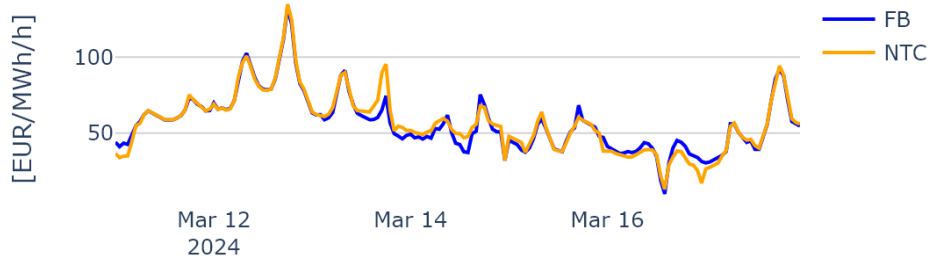


## Prices

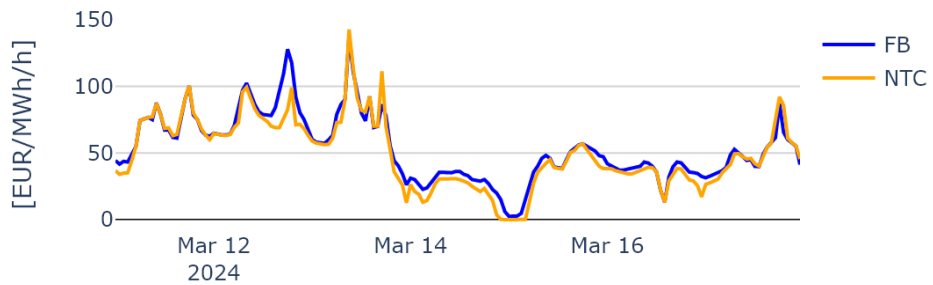
### DK1 price



### DK2 price

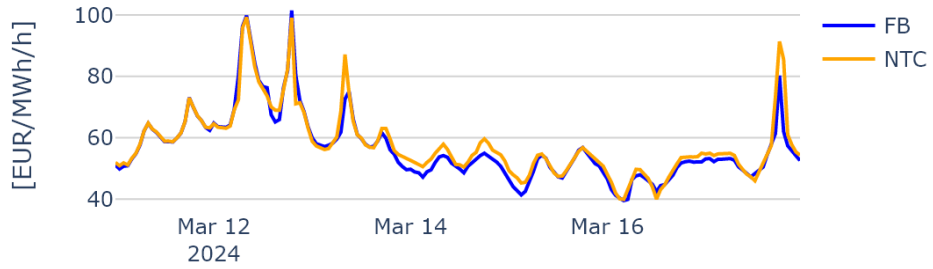


### FI price

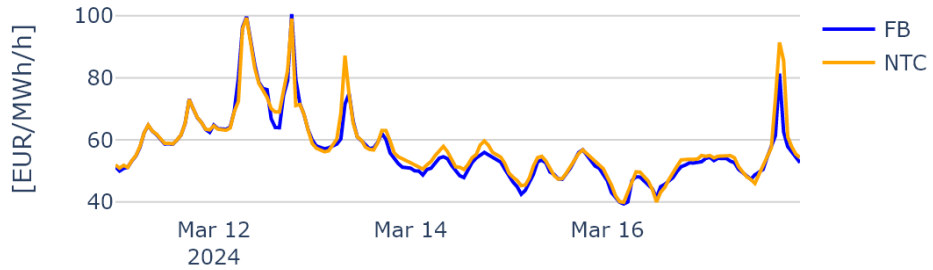




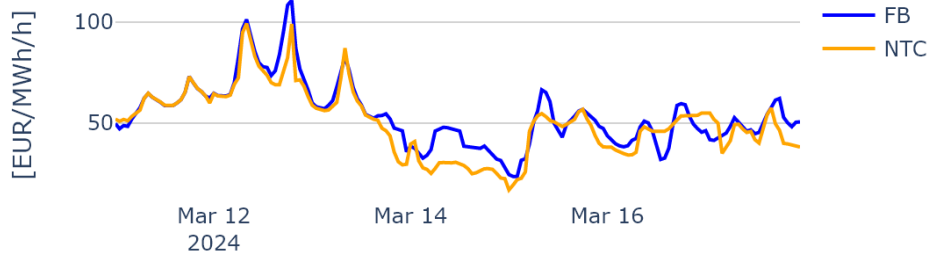
### NO1 price



### NO2 price

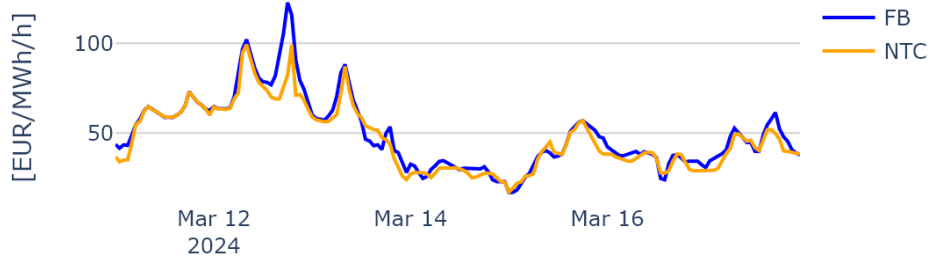


### NO3 price

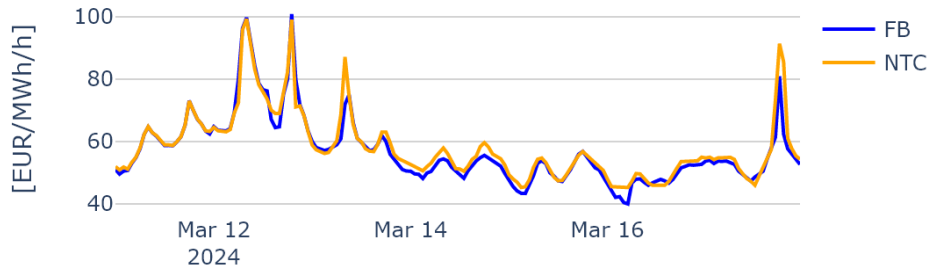




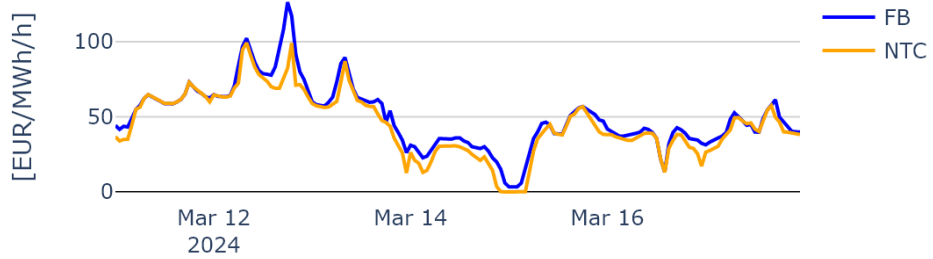
### NO4 price



### NO5 price

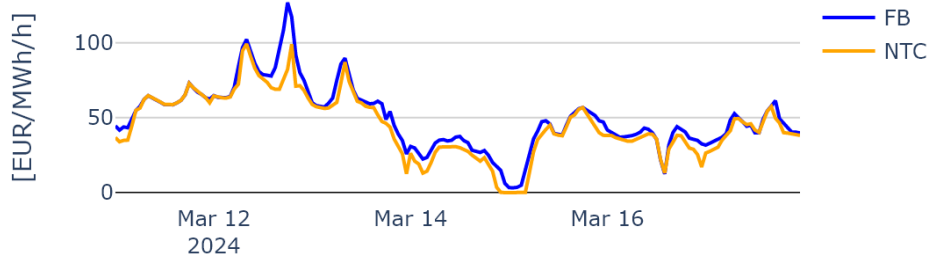


### SE1 price

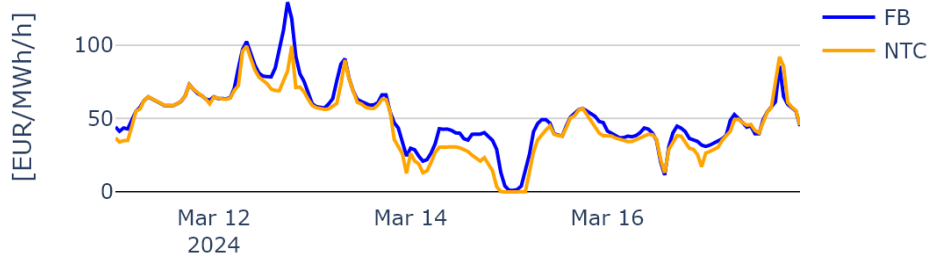




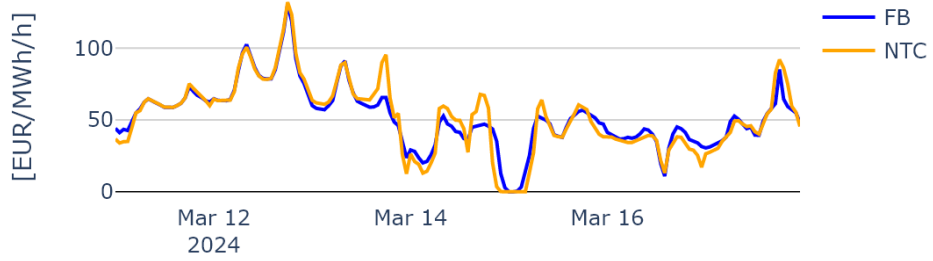
### SE2 price



### SE3 price



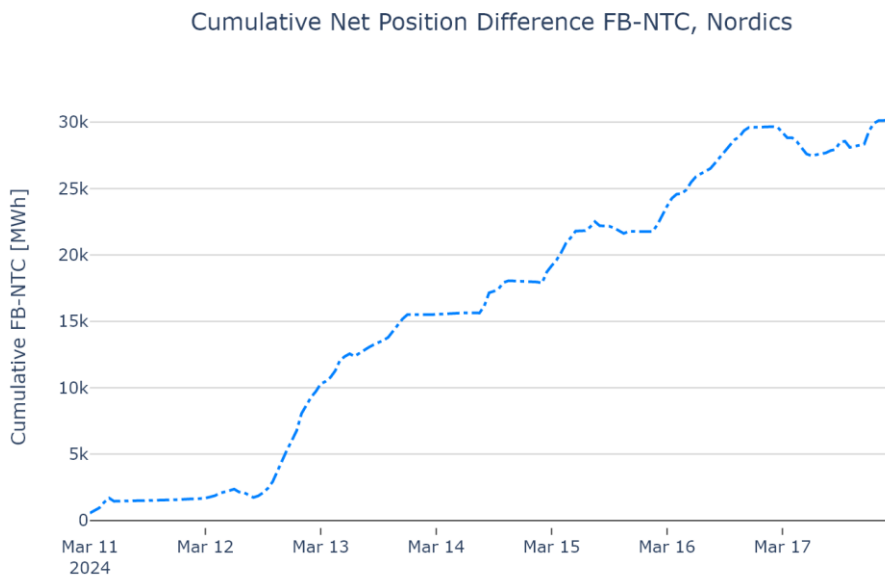
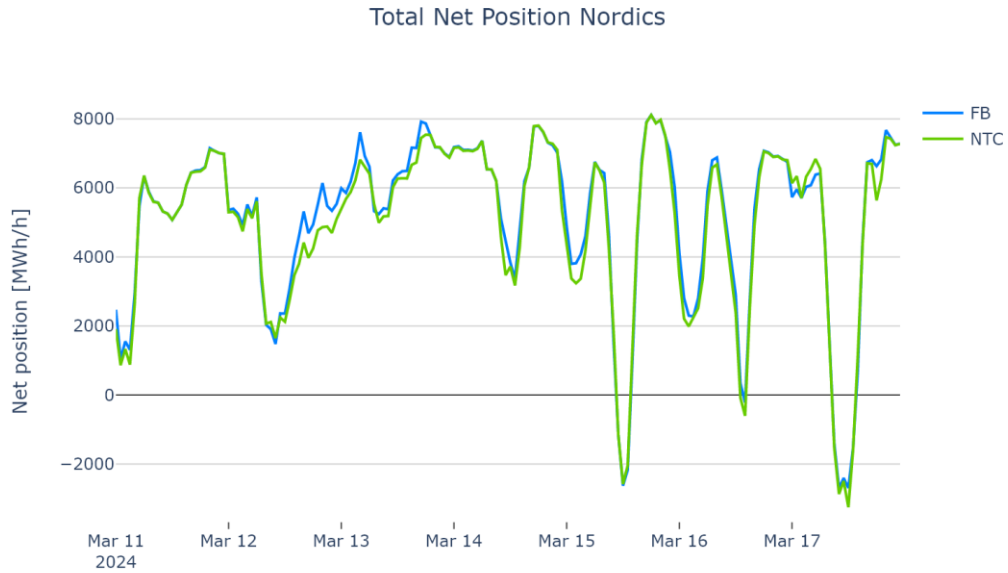
### SE4 price





## Net positions

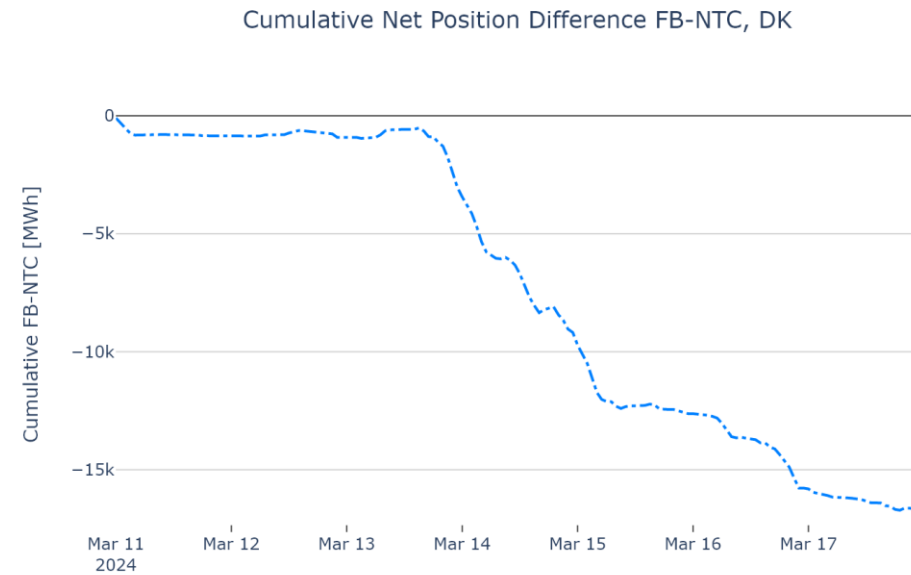
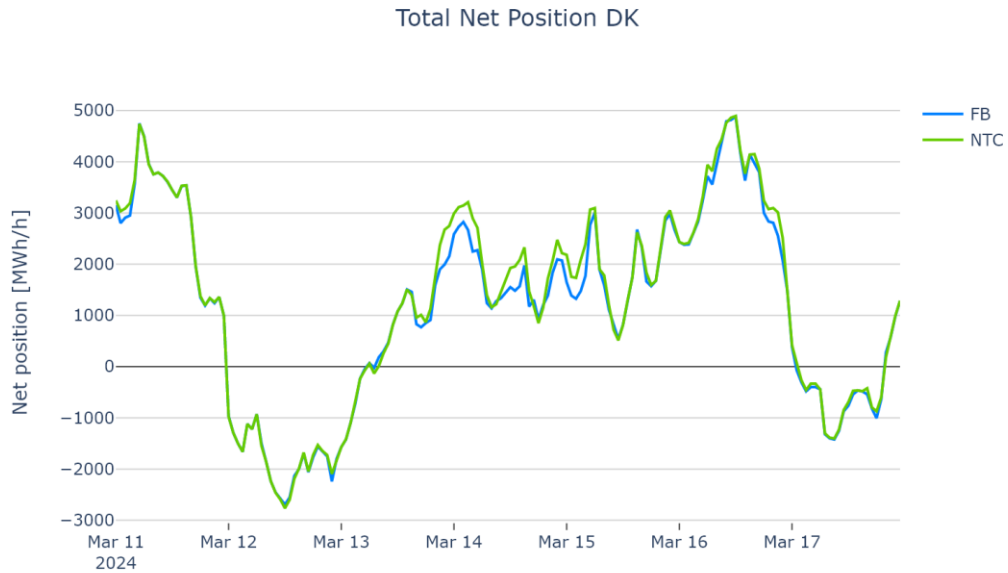
### Nordics





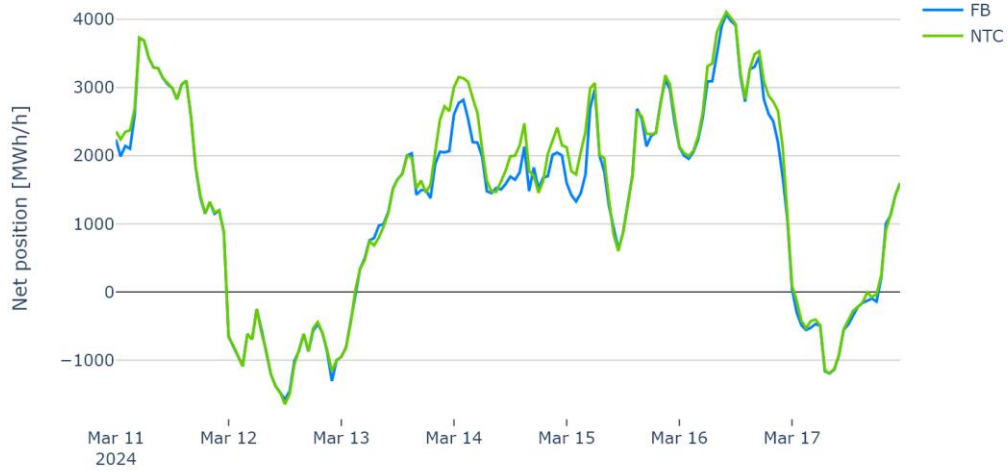


## Denmark

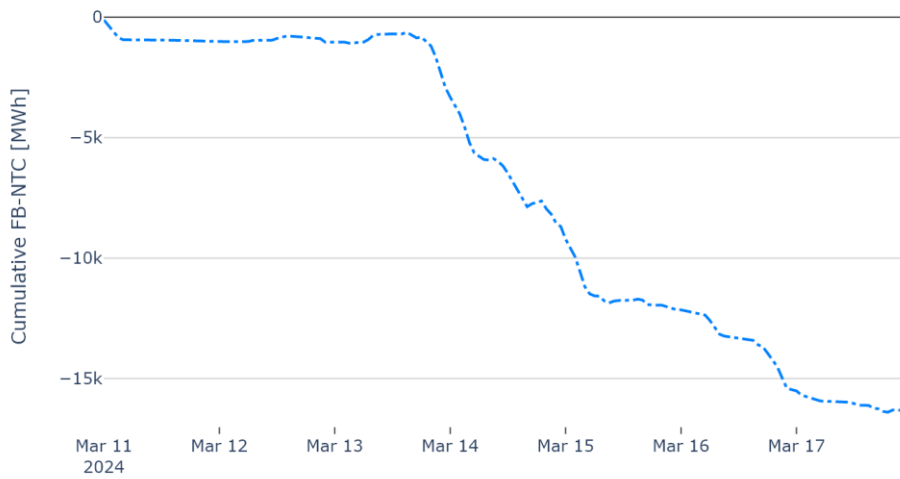




Net Position DK1

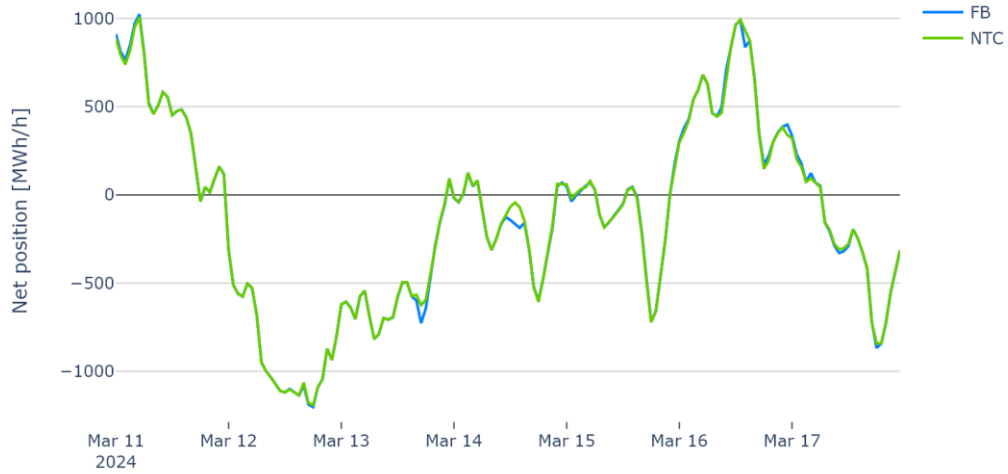


Cumulative Net Position Difference FB-NTC, DK1

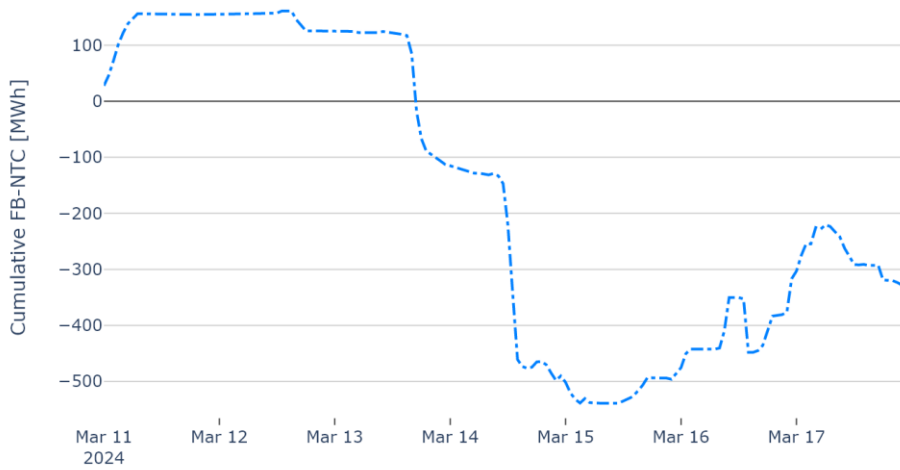




Net Position DK2



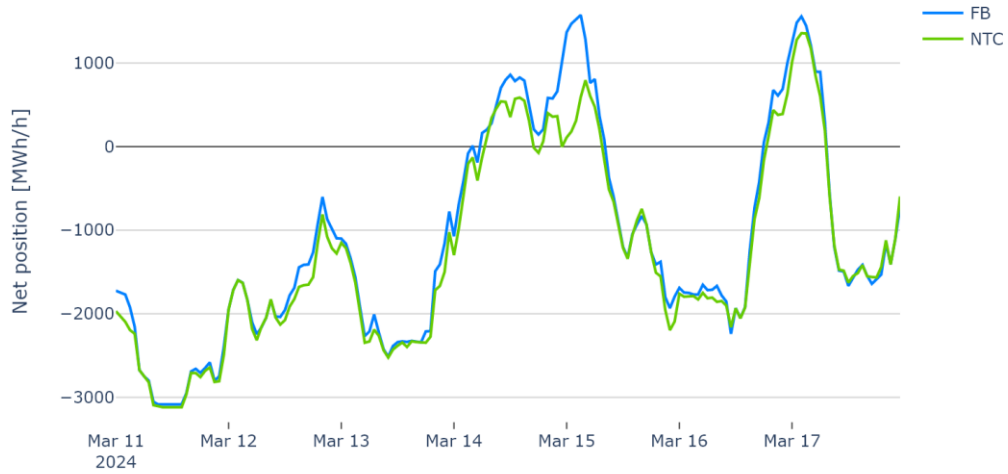
Cumulative Net Position Difference FB-NTC, DK2



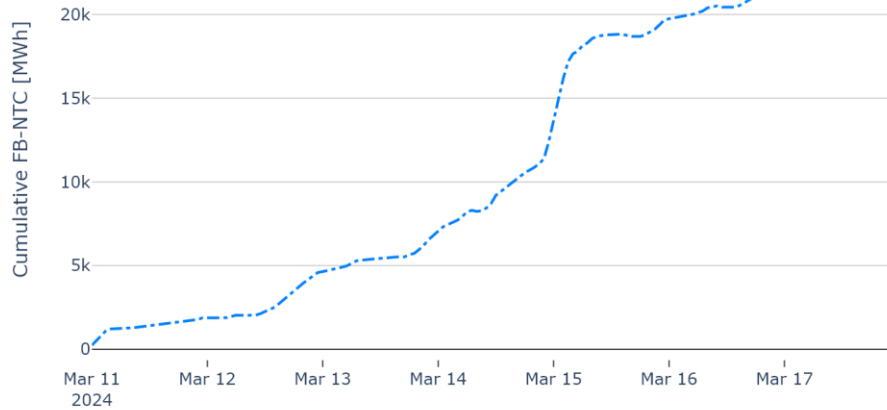


## Finland

Total Net Position FI

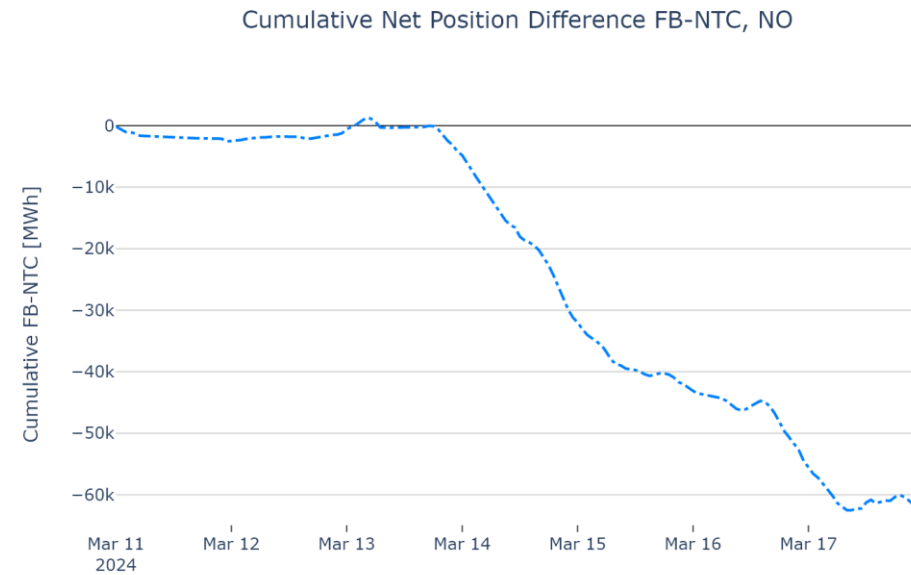
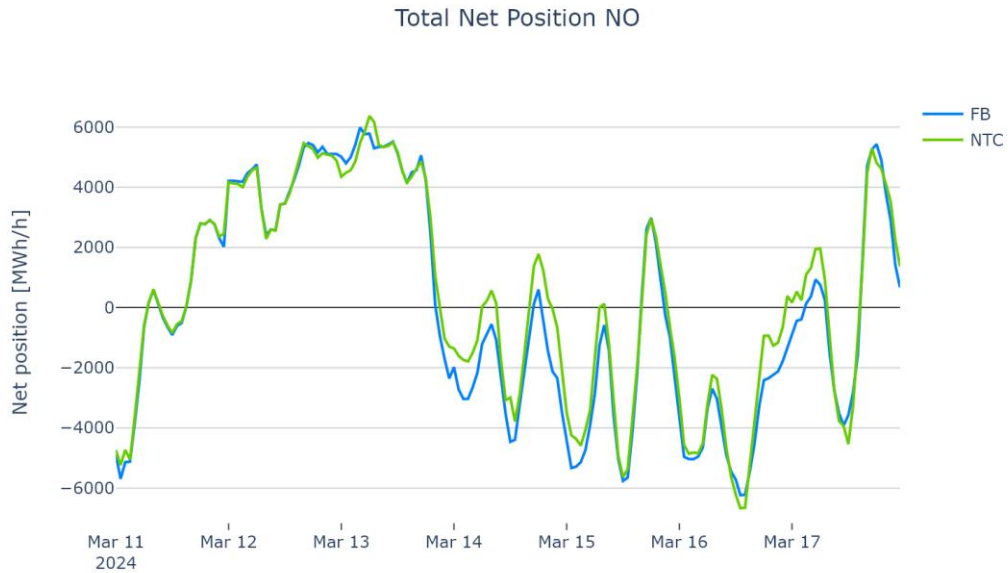


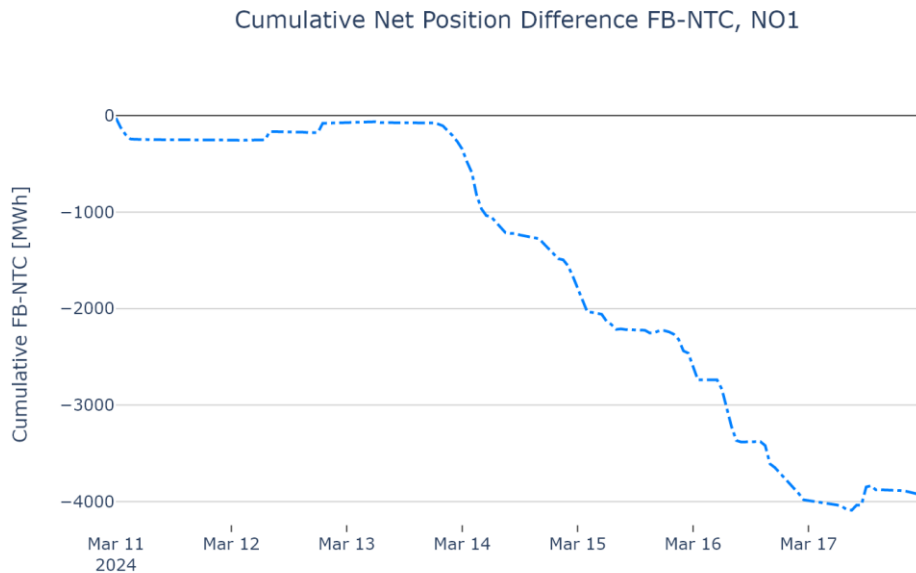
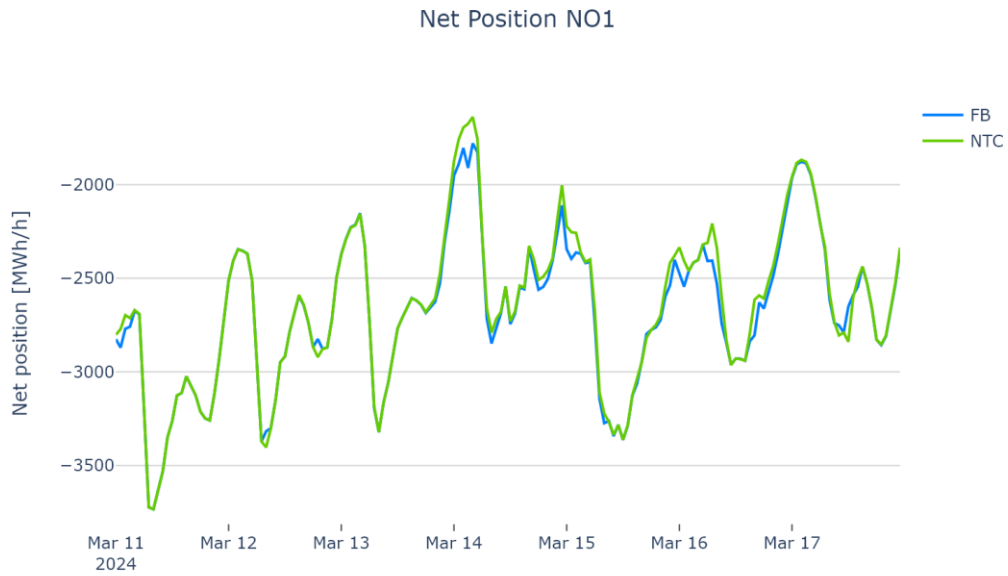
Cumulative Net Position Difference FB-NTC, FI





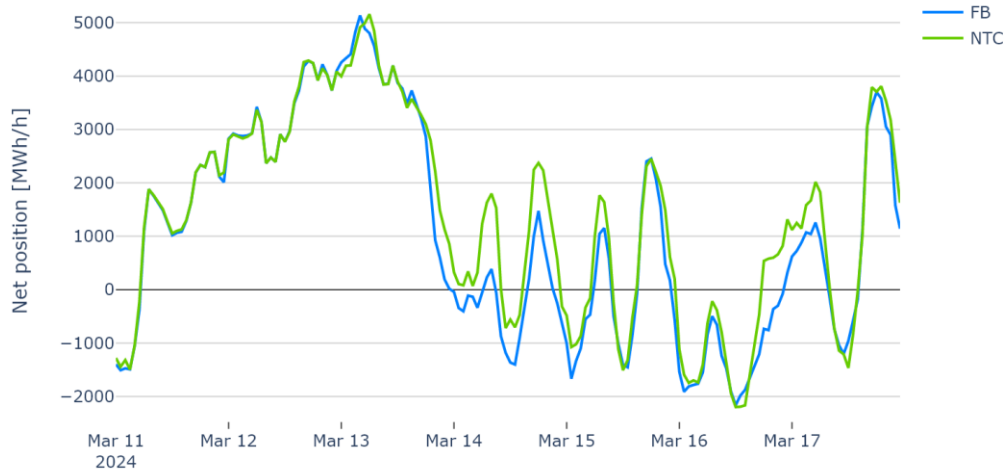
## Norway



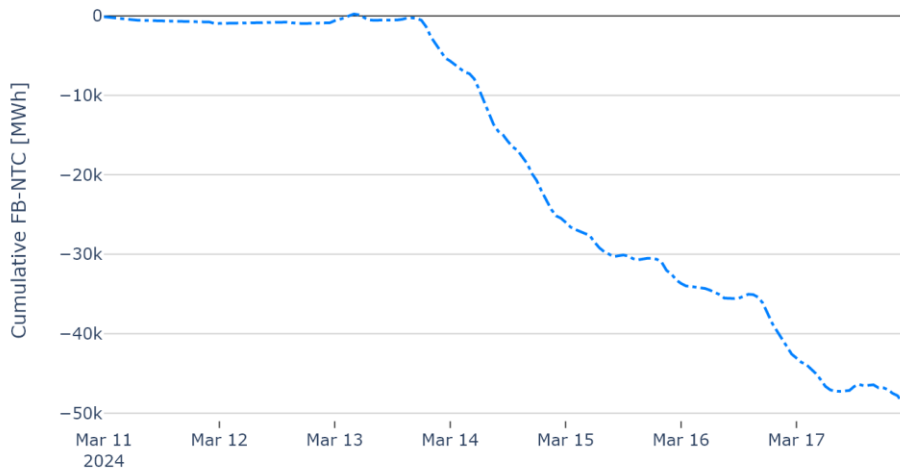


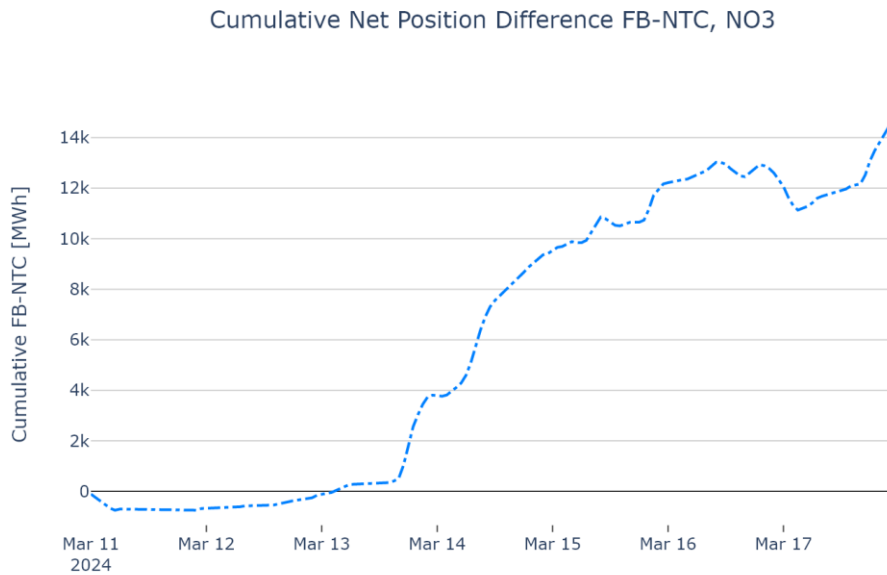
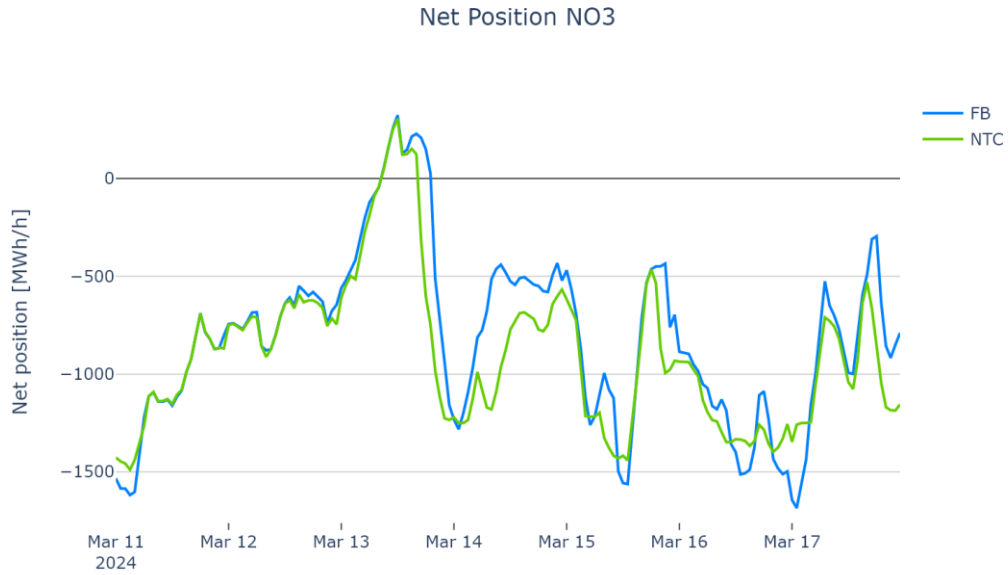


Net Position NO2



Cumulative Net Position Difference FB-NTC, NO2

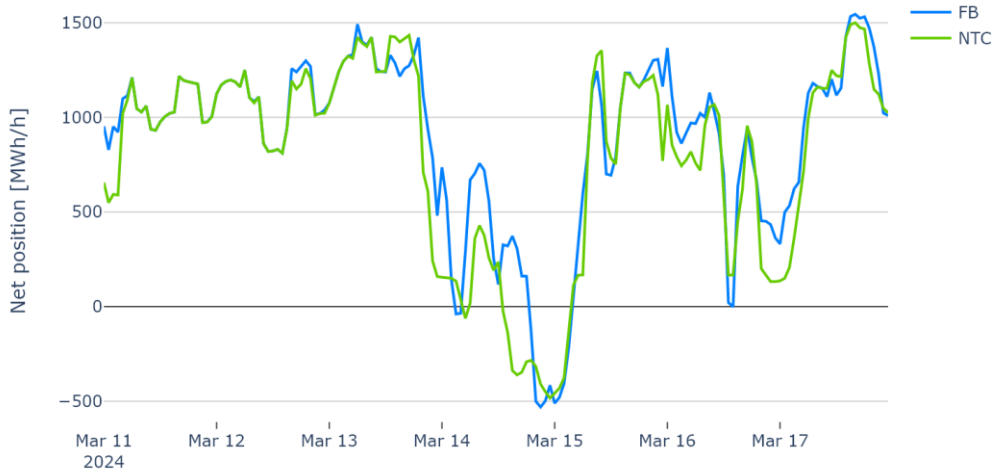




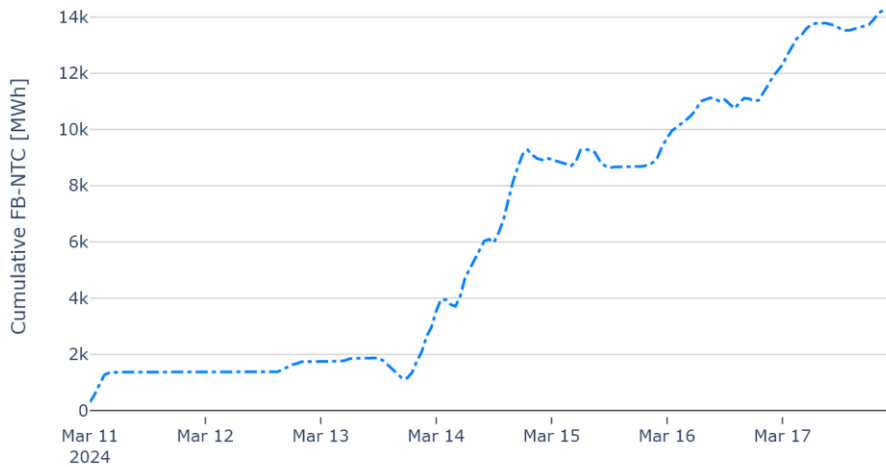


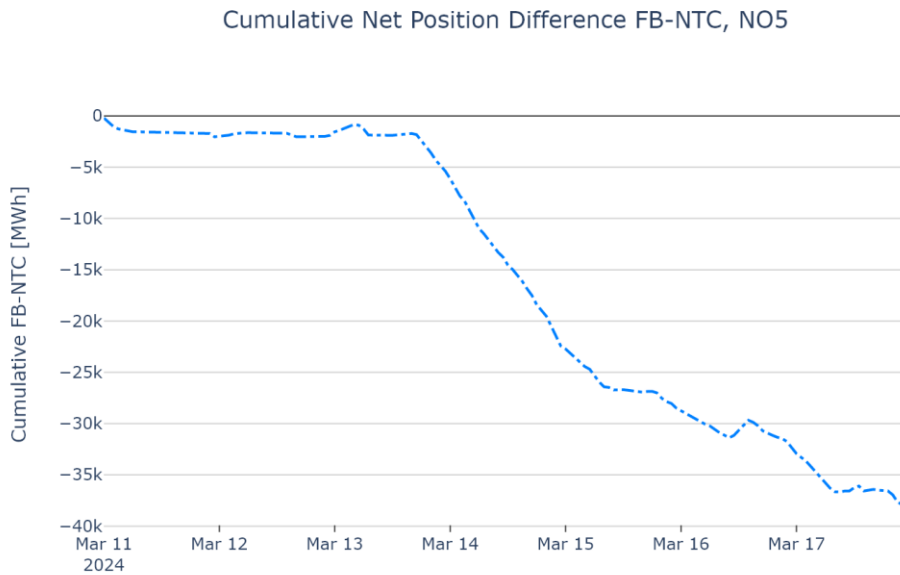
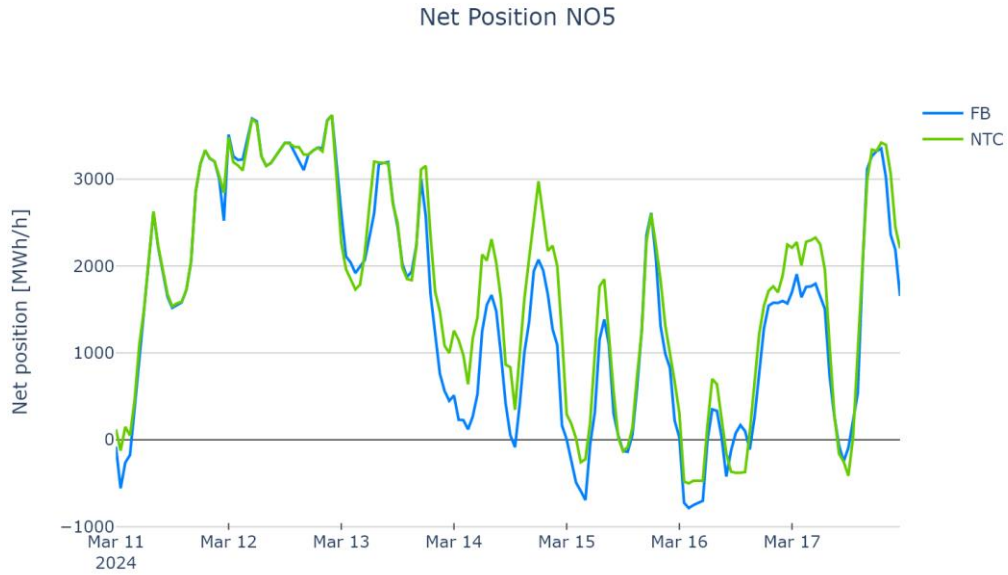


Net Position NO4



Cumulative Net Position Difference FB-NTC, NO4

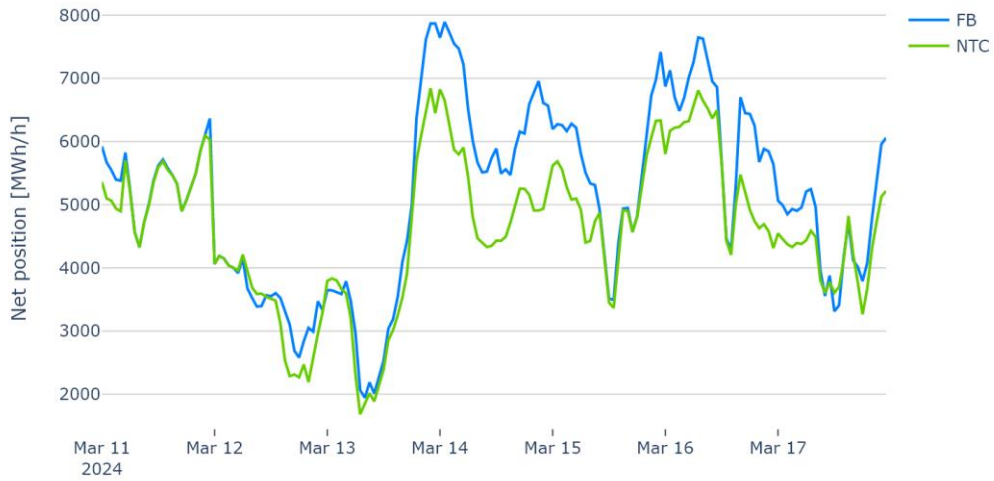




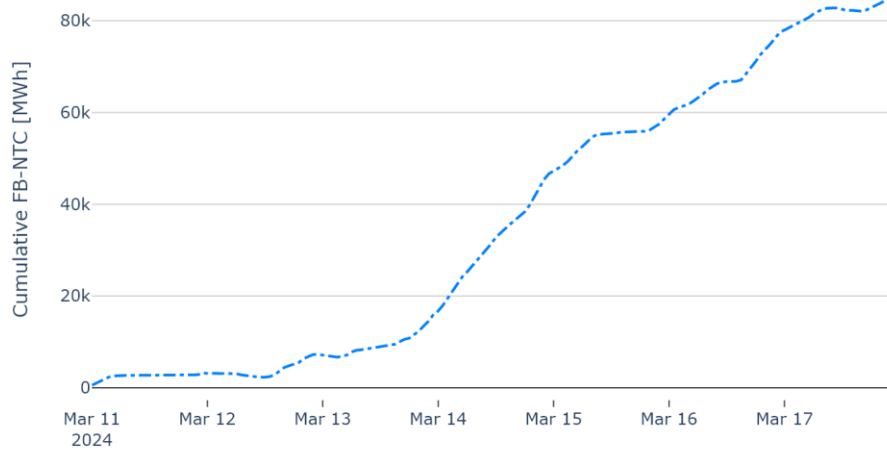


## Sweden

Total Net Position SE

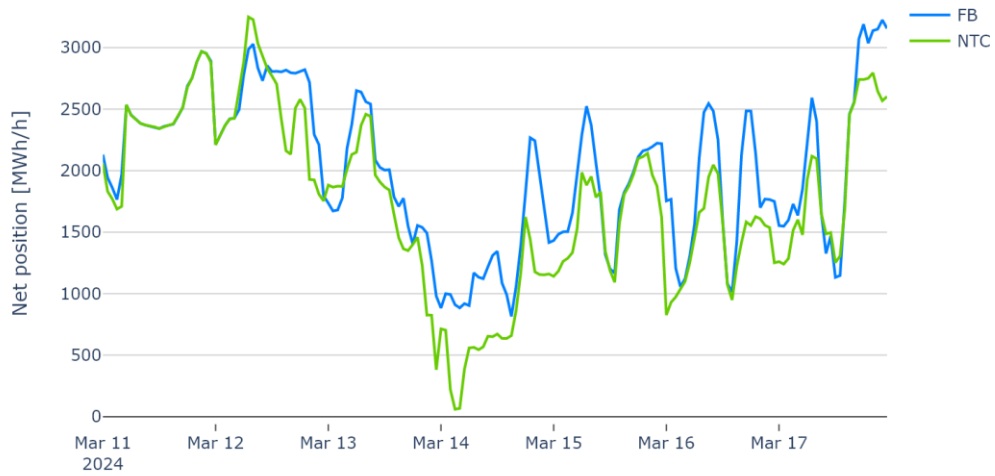


Cumulative Net Position Difference FB-NTC, SE

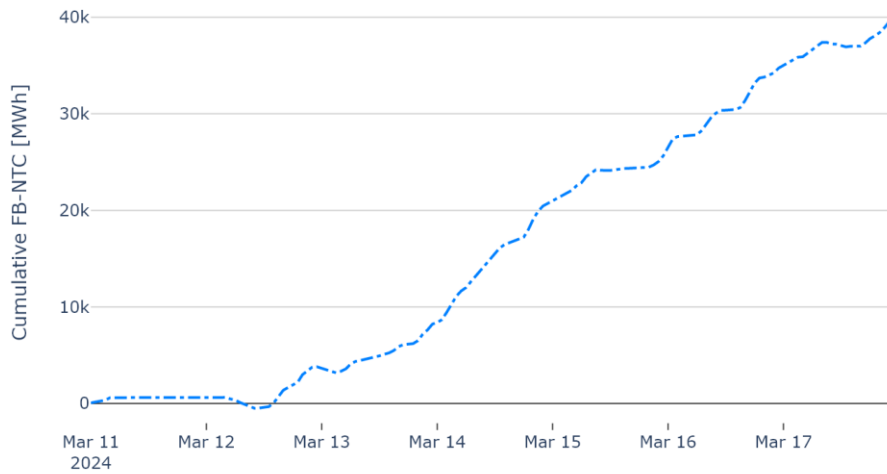


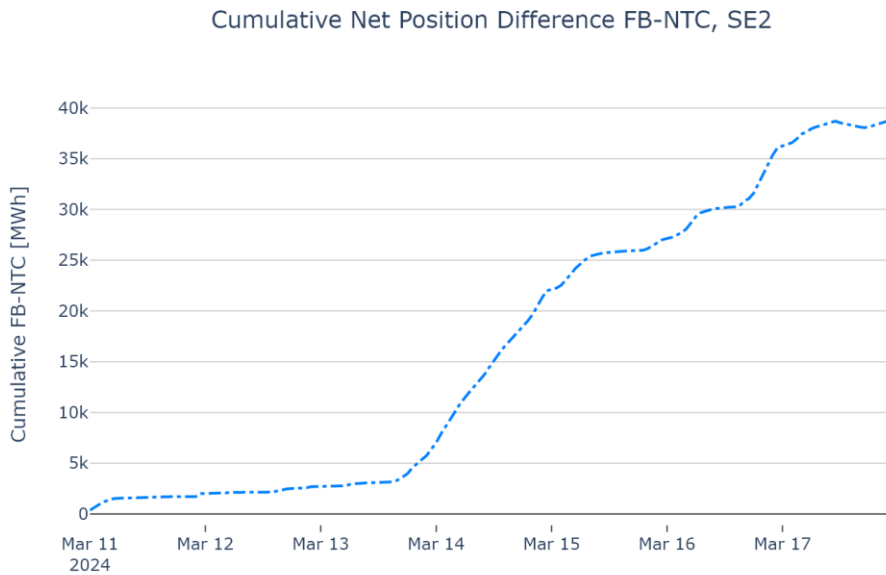
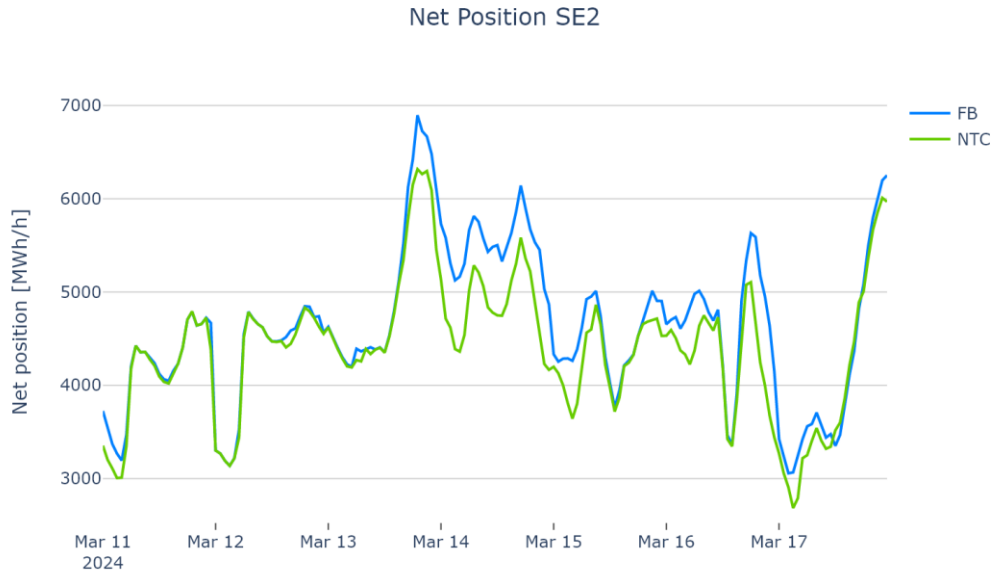


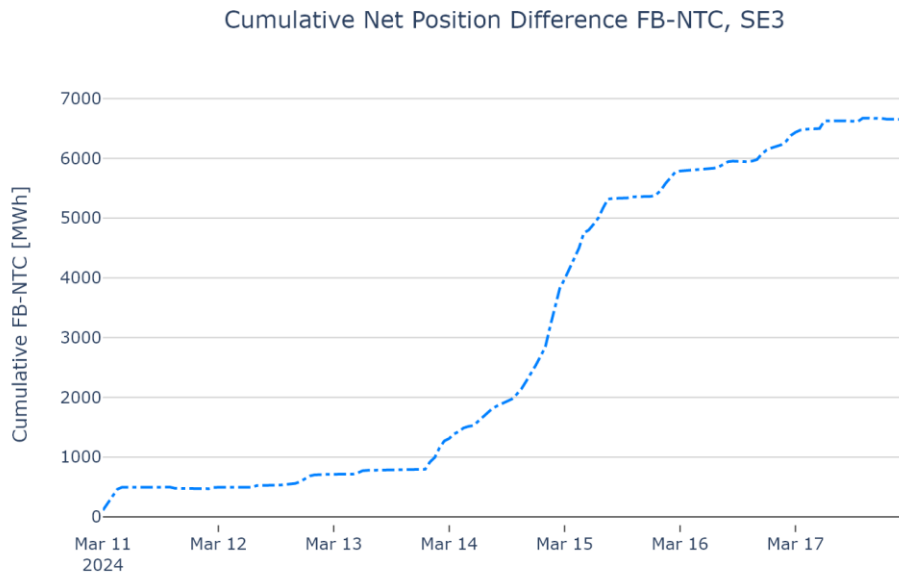
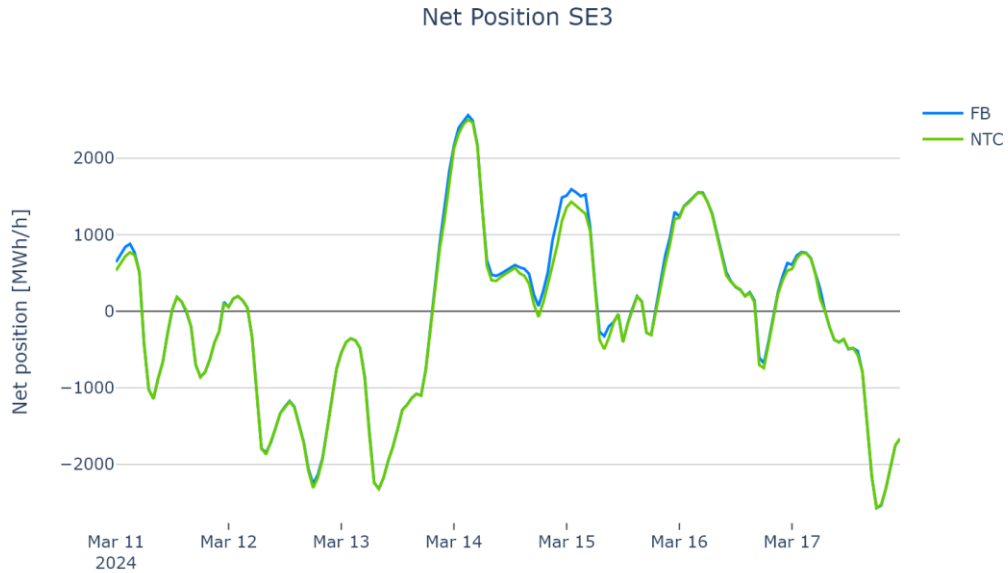
Net Position SE1



Cumulative Net Position Difference FB-NTC, SE1









Net Position SE4



Cumulative Net Position Difference FB-NTC, SE4

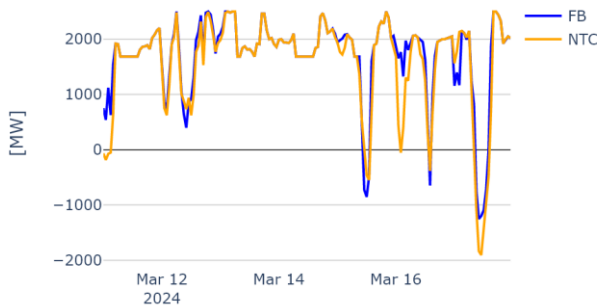




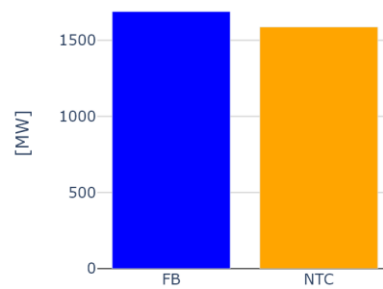
## Border flow

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.

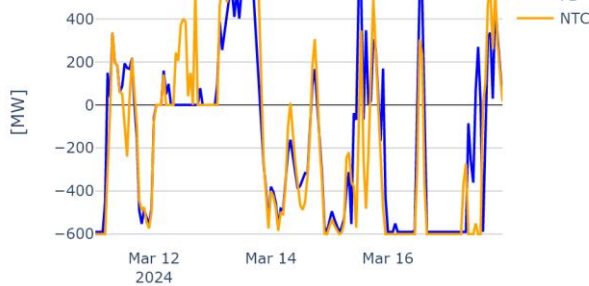
DK1 > DE/LU Physical Flow



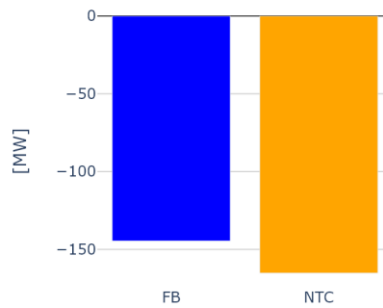
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow



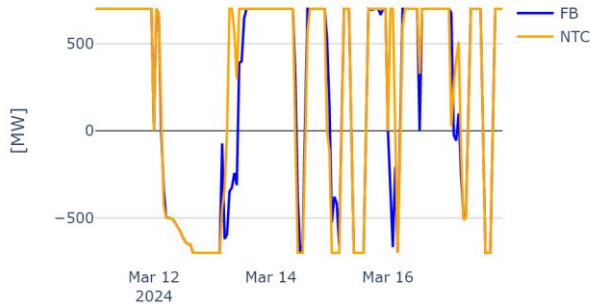
DK1 > DK2 Average flow on border



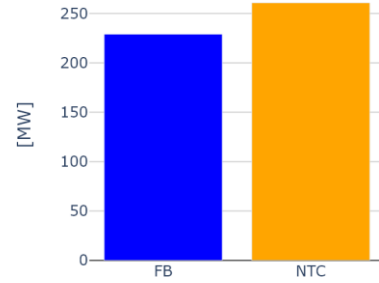




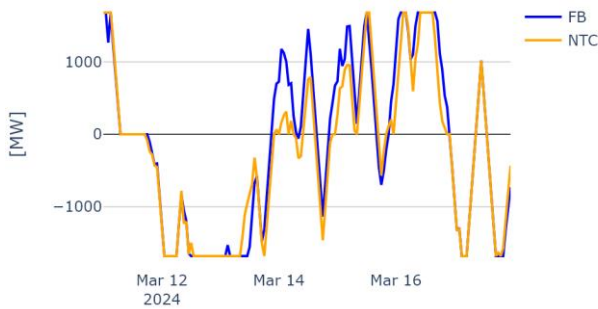
DK1 > NL Physical Flow



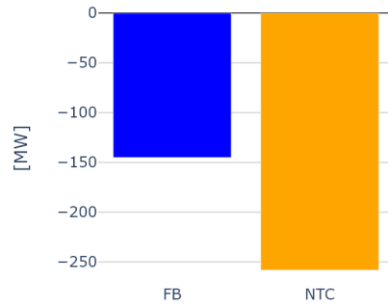
DK1 > NL Average flow on border



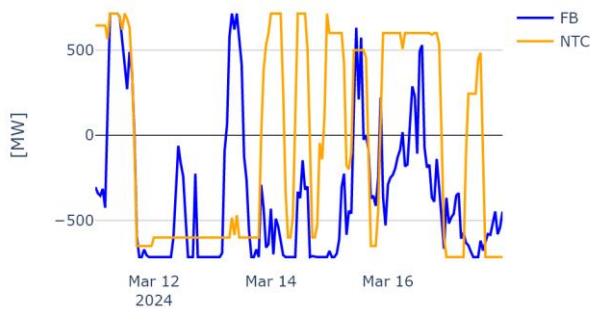
DK1 > NO2 Physical Flow



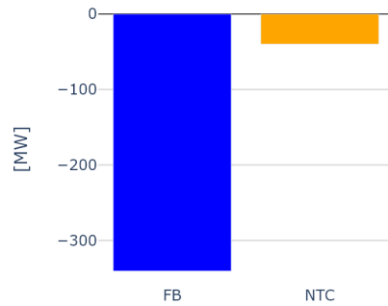
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

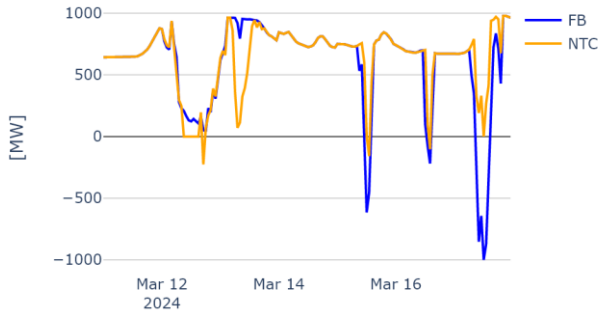


DK1 > SE3 Average flow on border

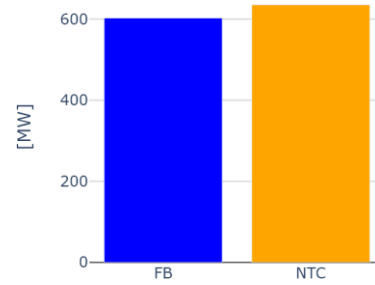




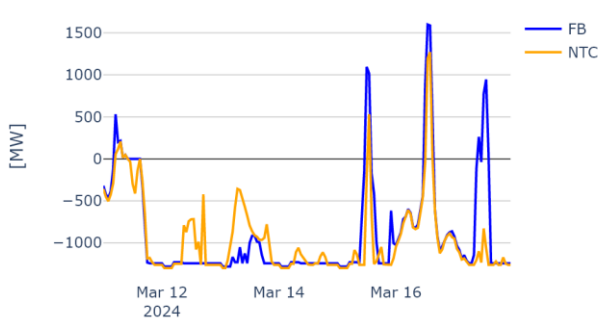
DK2 > DE/LU Physical Flow



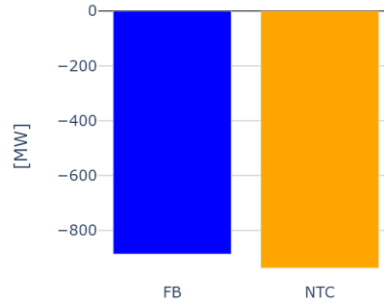
DK2 > DE/LU Average flow on border



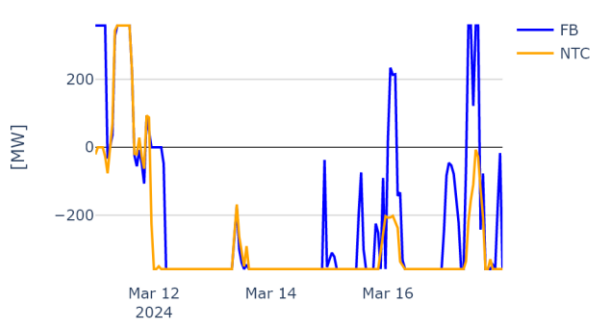
DK2 > SE4 Physical Flow



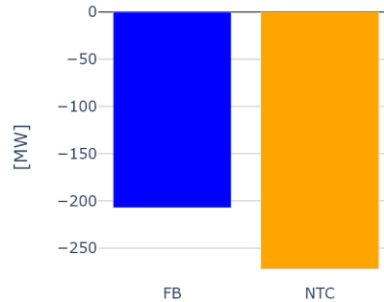
DK2 > SE4 Average flow on border



EE > FI Physical Flow

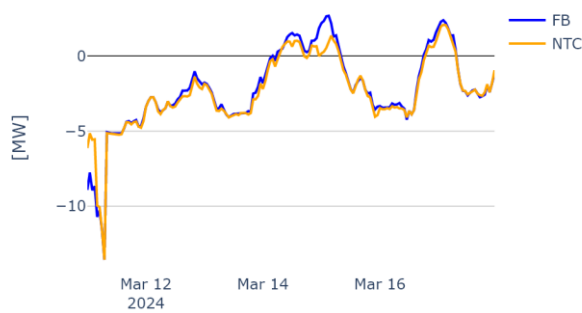


EE > FI Average flow on border

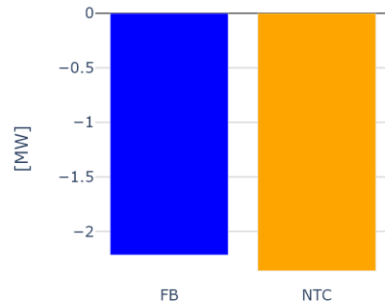




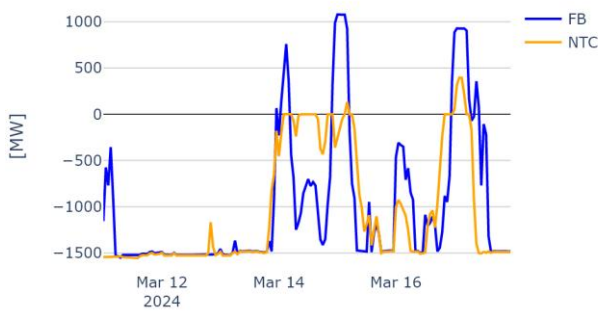
FI > NO4 Physical Flow



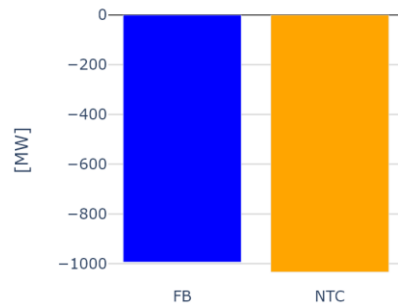
FI > NO4 Average flow on border



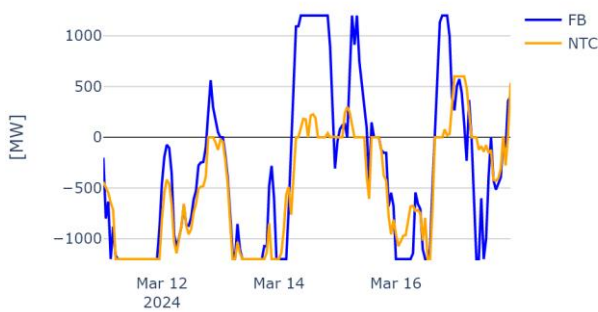
FI > SE1 Physical Flow



FI > SE1 Average flow on border



FI > SE3 Physical Flow

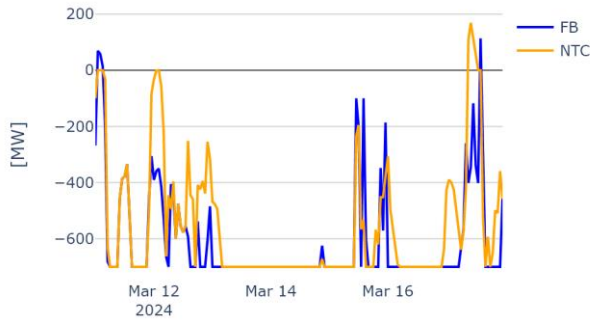


FI > SE3 Average flow on border

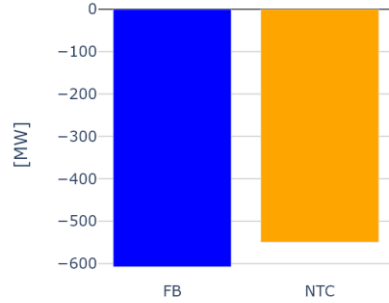




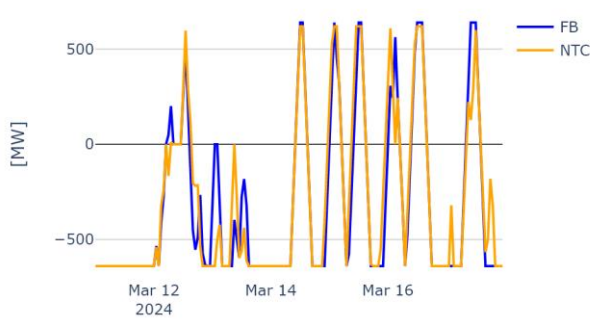
LT > SE4 Physical Flow



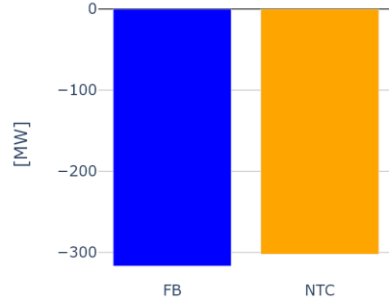
LT > SE4 Average flow on border



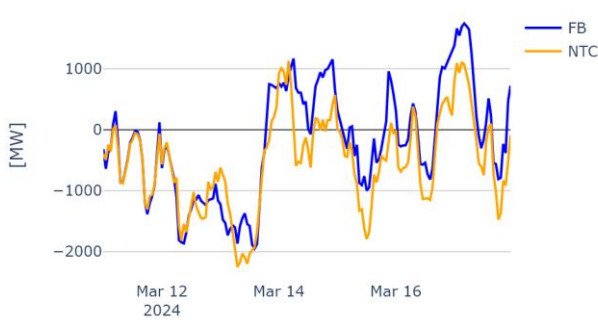
NL > NO2 Physical Flow



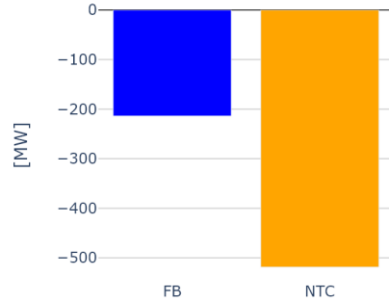
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

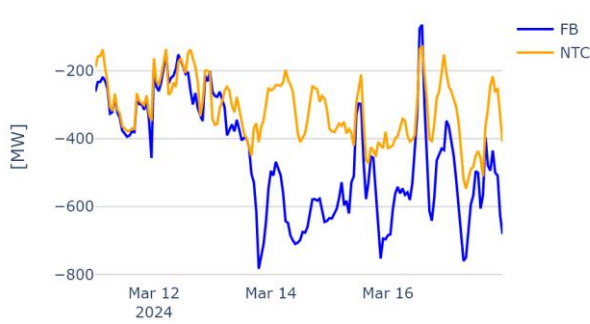


NO1 > NO2 Average flow on border

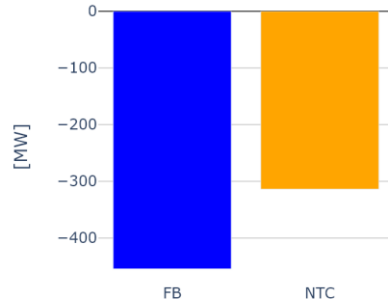




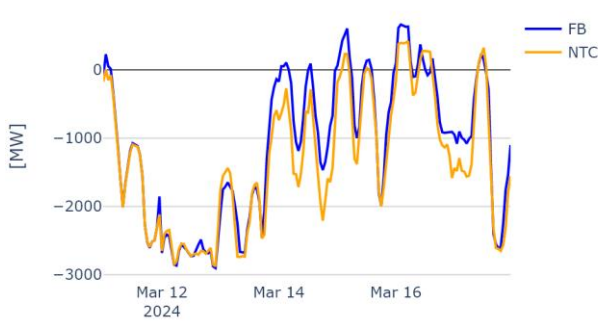
NO1 > NO3 Physical Flow



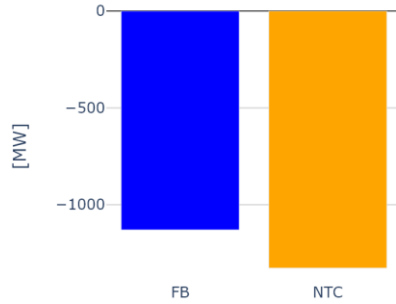
NO1 > NO3 Average flow on border



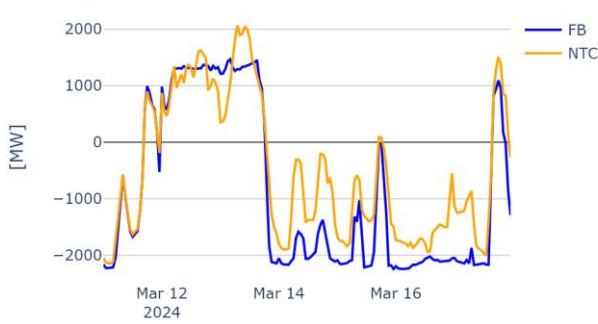
NO1 > NO5 Physical Flow



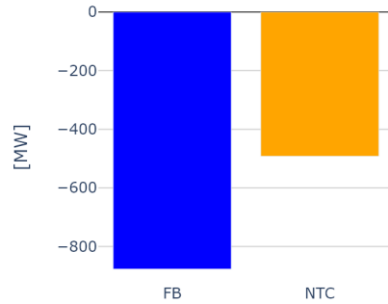
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow

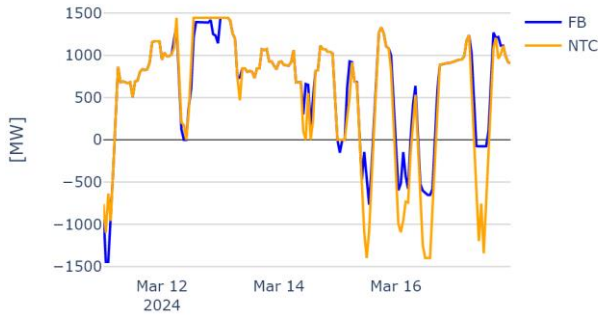


NO1 > SE3 Average flow on border





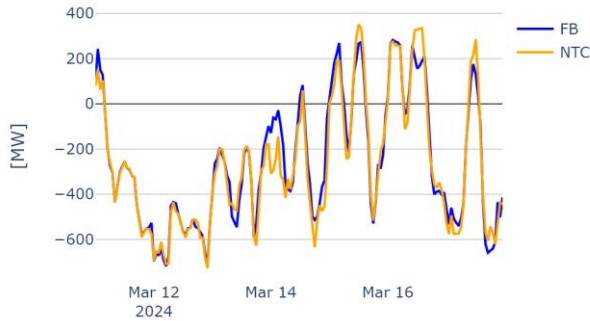
NO2 > DE/LU Physical Flow



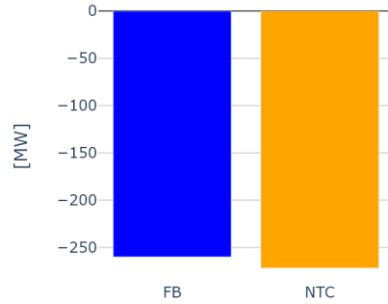
NO2 > DE/LU Average flow on border



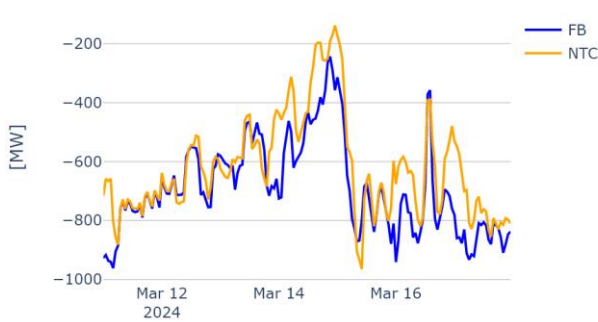
NO2 > NO5 Physical Flow



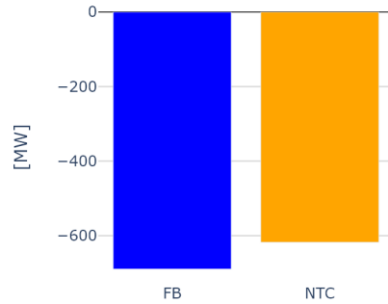
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

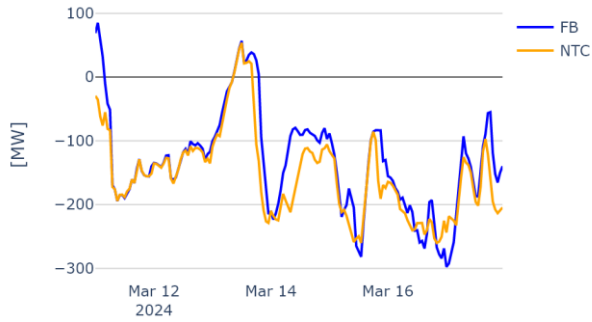


NO3 > NO4 Average flow on border

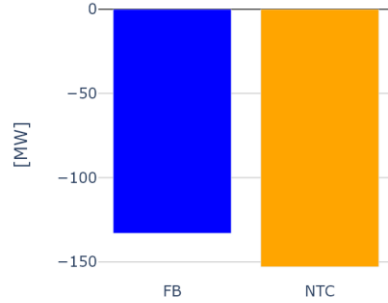




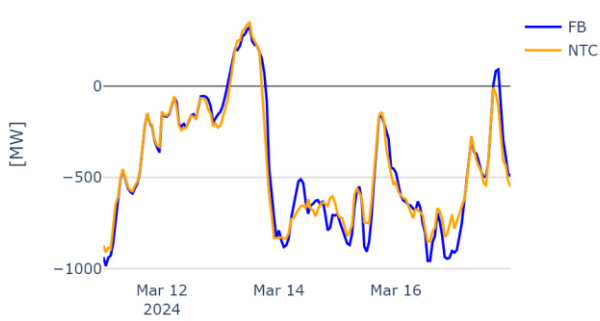
NO3 > NO5 Physical Flow



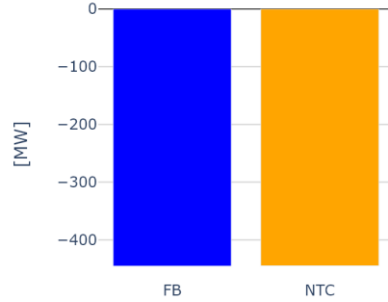
NO3 > NO5 Average flow on border



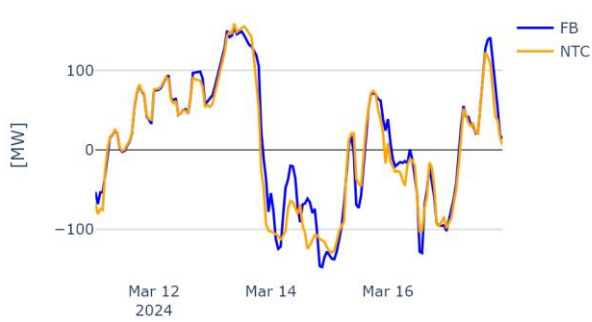
NO3 > SE2 Physical Flow



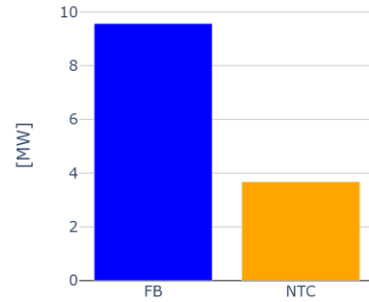
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

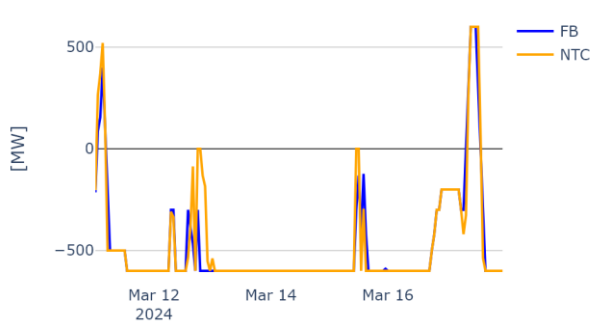


NO4 > SE2 Average flow on border

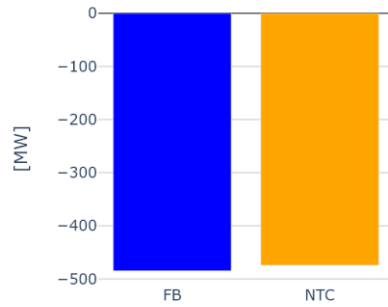




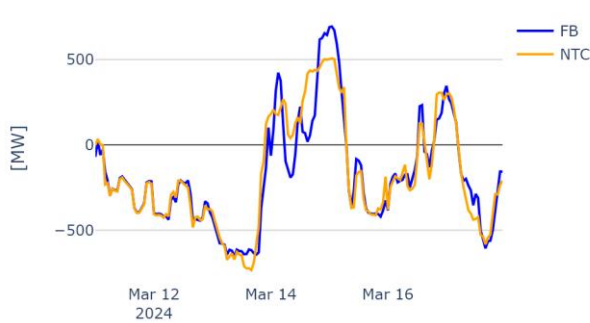
PL > SE4 Physical Flow



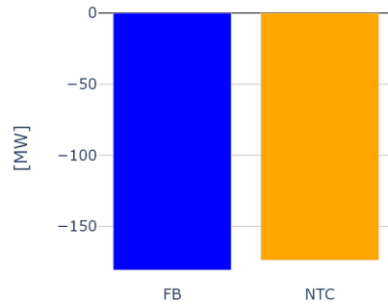
PL > SE4 Average flow on border



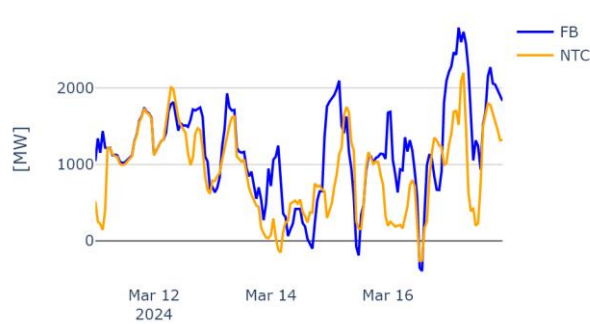
SE1 > NO4 Physical Flow



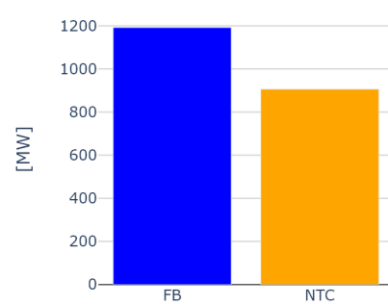
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow



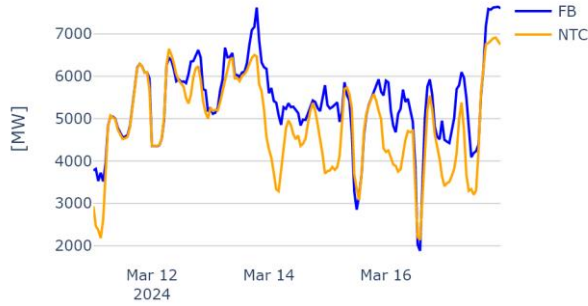
SE1 > SE2 Average flow on border







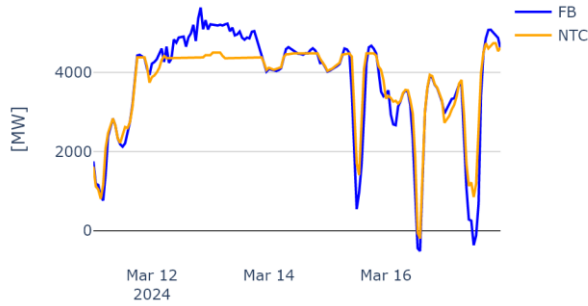
SE2 > SE3 Physical Flow



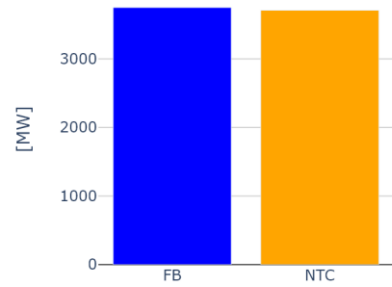
SE2 > SE3 Average flow on border



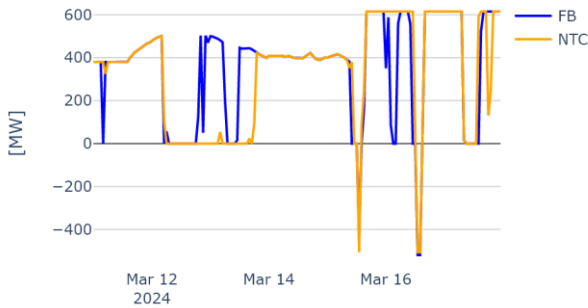
SE3 > SE4 Physical Flow



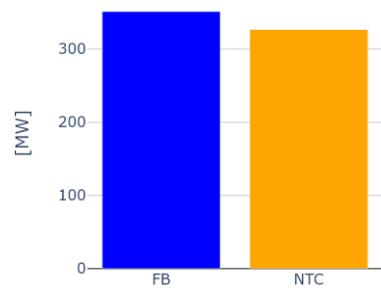
SE3 > SE4 Average flow on border



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	2881006	9
DK1 > DK2	127119	1
DK1 > NL	1123855	10
DK1 > NO2	980319	6
DK1 > SE3	616085	6
DK2 > DE/LU	1202464	10
DK2 > SE4	1021322	5
EE > FI	725485	12
FI > NO4	3351	5
FI > SE1	918441	4
FI > SE3	722065	4
LT > SE4	1506765	13
NL > NO2	876878	10
NO1 > NO2	51292	0
NO1 > NO3	271537	3
NO1 > NO5	16652	0
NO1 > SE3	2878193	9
NO2 > DE/LU	1576737	12
NO2 > NO5	3977	0
NO3 > NO4	533407	5
NO3 > NO5	-70087	-2
NO3 > SE2	634985	5
NO4 > SE2	28553	1
PL > SE4	2224572	24
SE1 > NO4	139085	2
SE1 > SE2	15197	0
SE2 > SE3	1688158	2
SE3 > SE4	396249	1
SE4 > DE/LU	1040725	14



## 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	15	-35928	-3
DK1 > NL	7	-11724	-3
DK1 > NO2	5	-10838	-3
DK1 > SE3	15	-3491	-1
DK2 > DE/LU	1	-4	0
DK2 > SE4	10	-1612	0
EE > FI	1	-13	0
FI > NO4	23	-116	-2
FI > SE1	2	-228	0
FI > SE3	21	-8742	-1
LT > SE4	9	-3856	0
NL > NO2	2	-2250	-1
NO1 > NO2	21	-9180	-1
NO1 > NO3	26	-92406	-5
NO1 > NO5	33	-19529	-1
NO1 > SE3	1	-734	-2
NO2 > DE/LU	2	-1483	-1
NO2 > NO5	27	-4294	0
NO3 > NO4	18	-58629	-3
NO3 > NO5	46	-101435	-9
NO3 > SE2	14	-10071	-4
NO4 > SE2	27	-5309	-2
PL > SE4	5	-2972	-1
SE1 > NO4	20	-9544	-1
SE1 > SE2	24	-16560	-1
SE2 > SE3	32	-193989	-1
SE3 > SE4	35	-87132	0
SE4 > DE/LU	1	-13	0