



Nordic Capacity Calculation Methodology Project (Nordic CCM)

# Nordic CCM

External Parallel Run Market Report  
Appendix for Week 12 of 2024



## Appendix

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### Domain validation

Energy Delivery Day:	Mon. 18.03	Tue. 19.03	Wed. 20.03	Thu. 21.03	Fri. 22.03	Sat. 23.03	Sun. 24.03
<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>IVA provision</b>	0	0	0	0	0	0	0
<b>Final domain acceptance (1 TSO =25%)</b>	100%	100%	100%	100%	100%	100%	100%

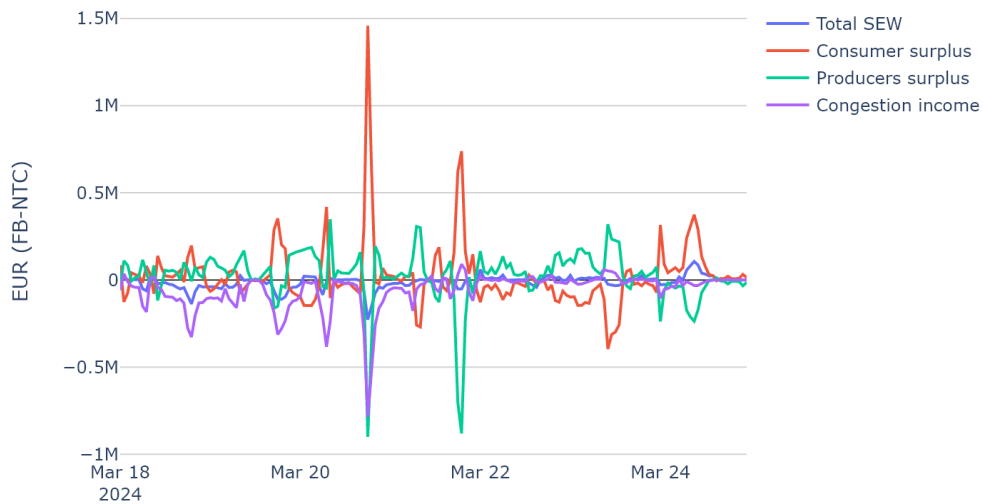


## Socio Economic Welfare

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.

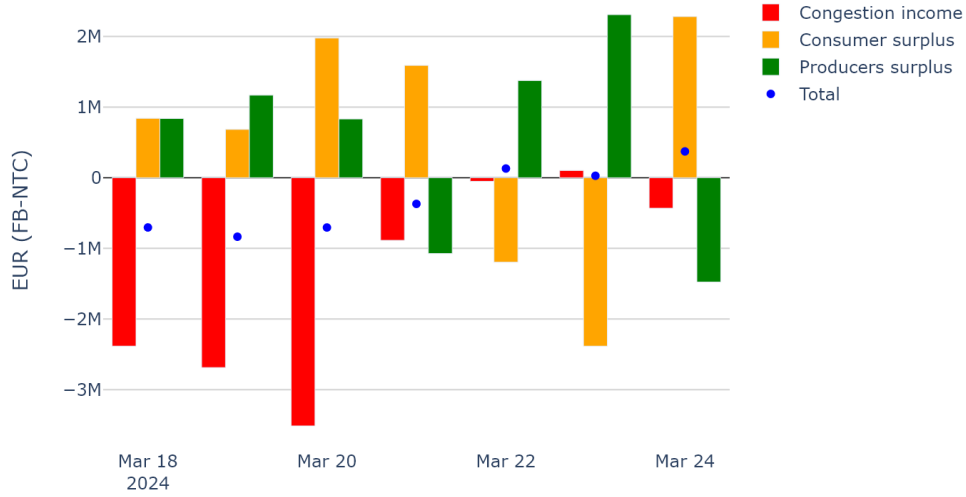
### Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

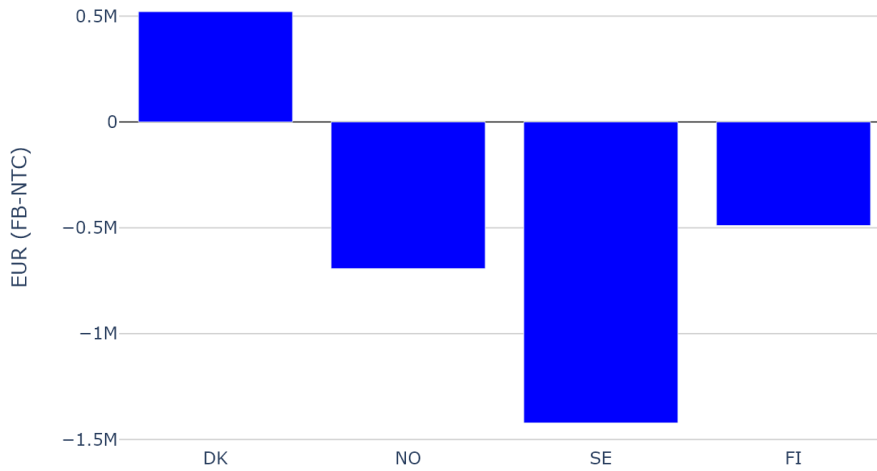




Nordics socio-economic welfare per stakeholder and day

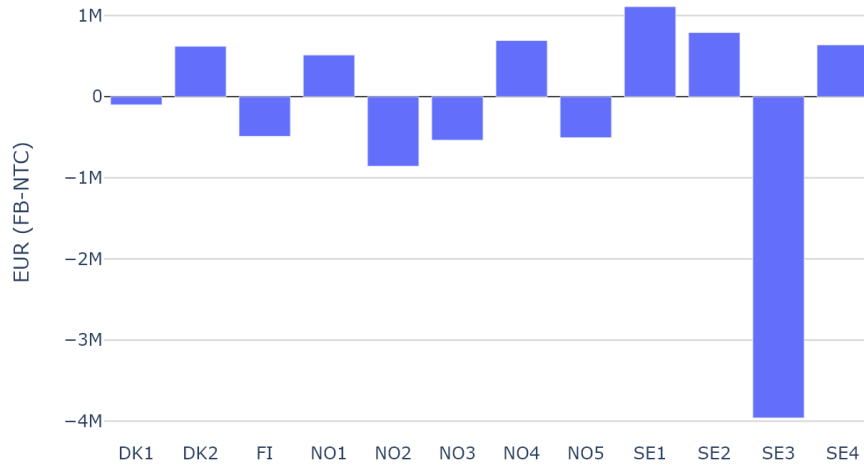


Total Nordic socio-economic welfare per country





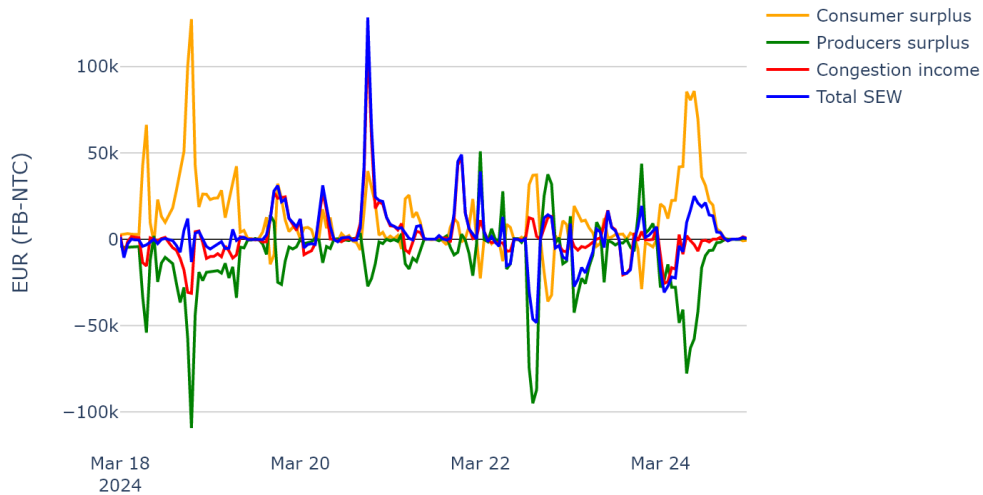
Socio economic welfaregain FB-NTC per BZ - Total\_sew



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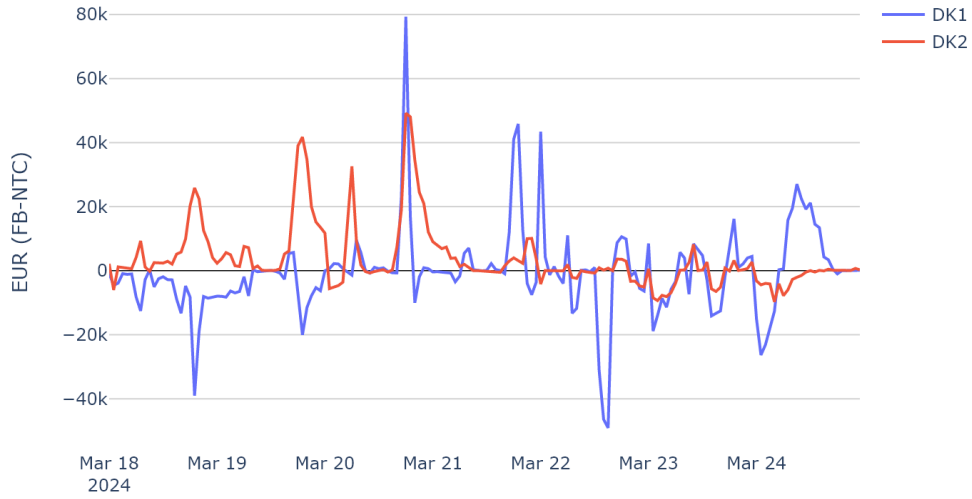
## Denmark

DK, socio-economic welfare per stakeholder and country

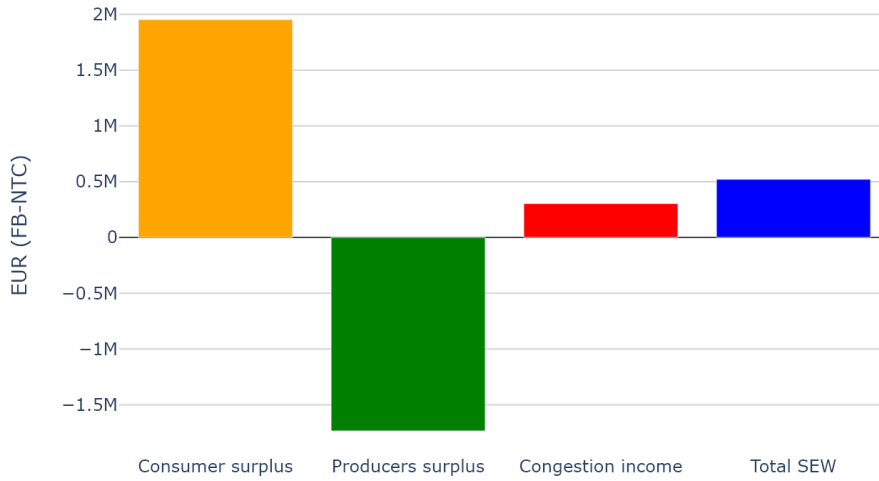




Total socio economic welfaregain FB-NTC per BZ in DK



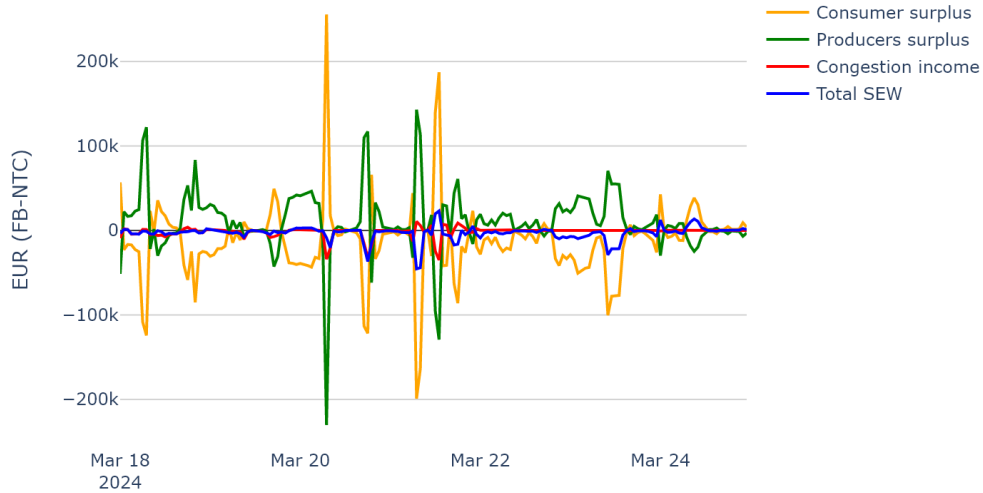
DK, socio-economic welfare per stakeholder and country



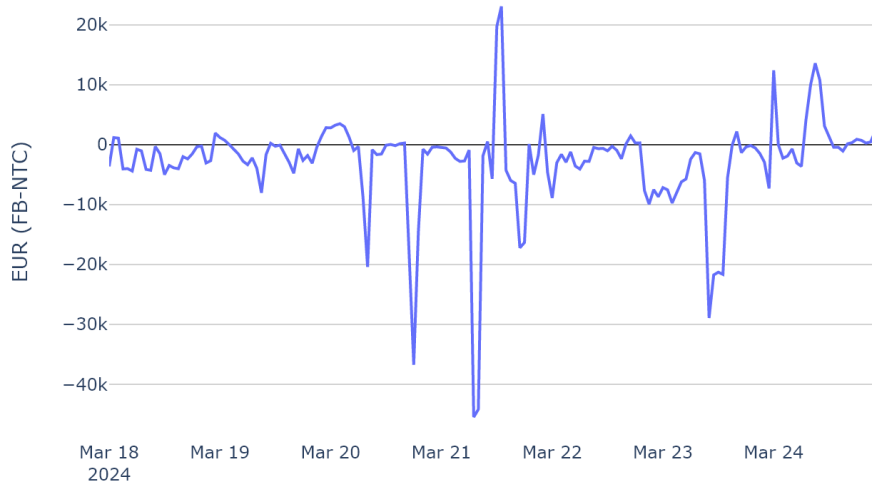


## Finland

FI, socio-economic welfare per stakeholder and country

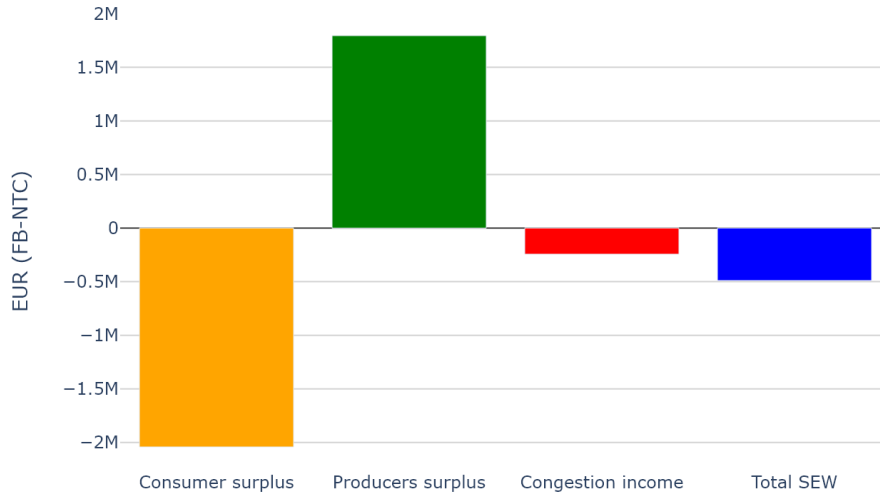


Total socio economic welfaregain FB-NTC per BZ in FI



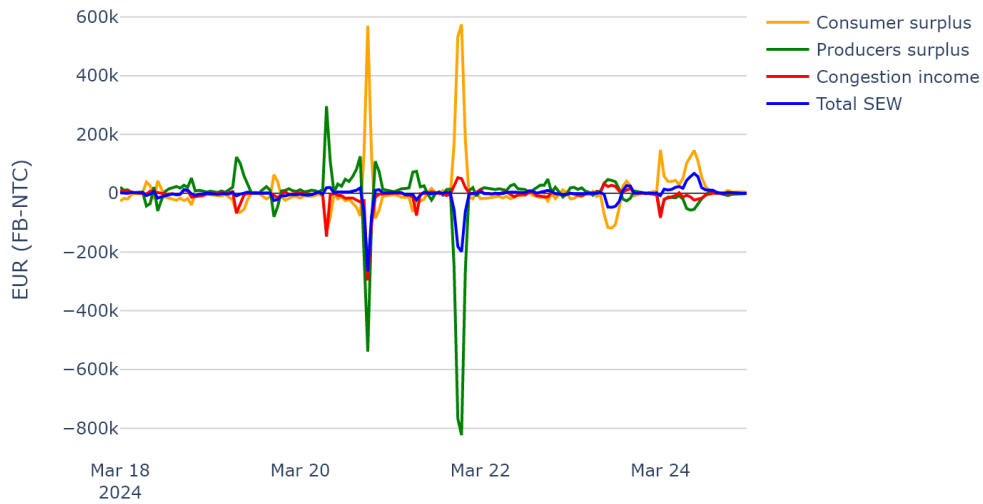


FI, socio-economic welfare per stakeholder and country



## Norway

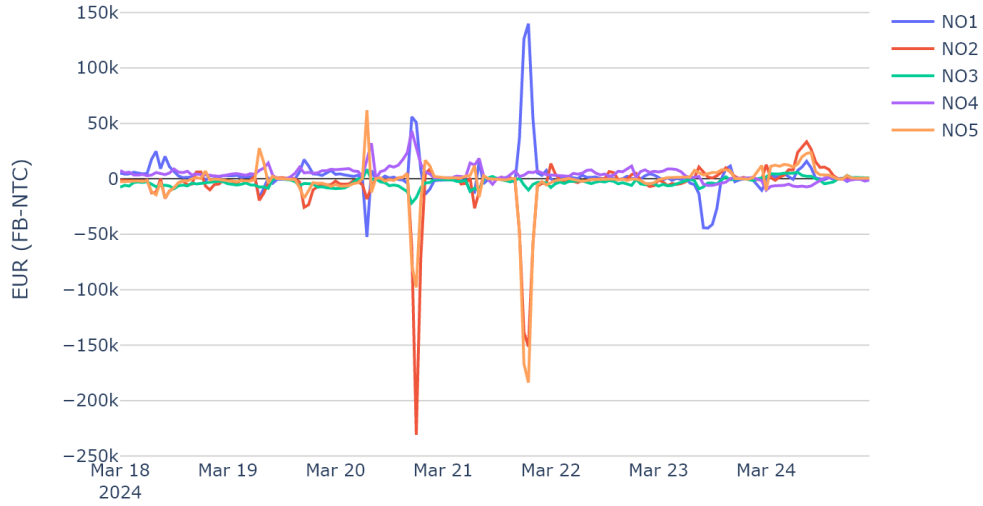
NO, socio-economic welfare per stakeholder and country



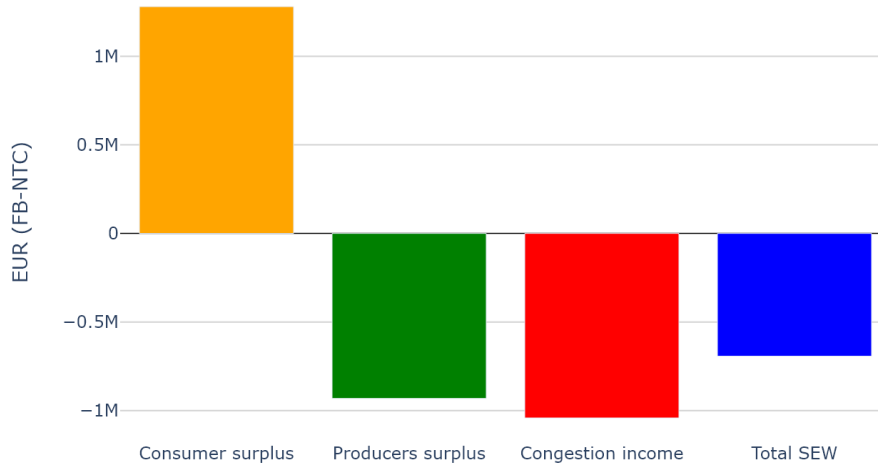




Total socio economic welfaregain FB-NTC per BZ in NO



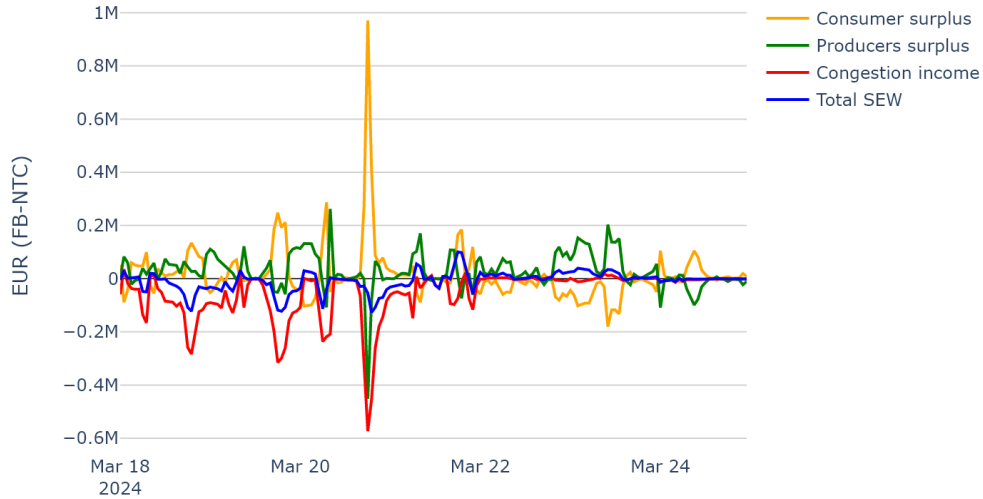
NO, socio-economic welfare per stakeholder and country



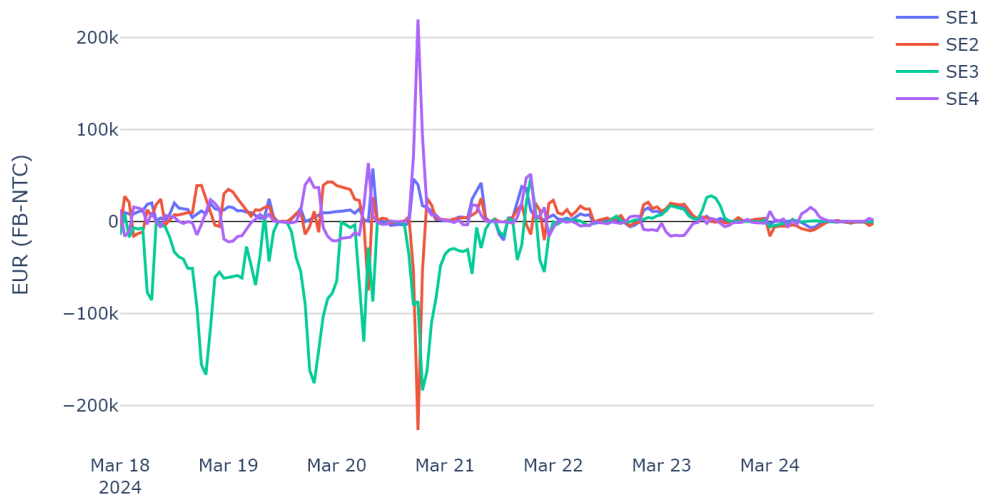


## Sweden

SE, socio-economic welfare per stakeholder and country

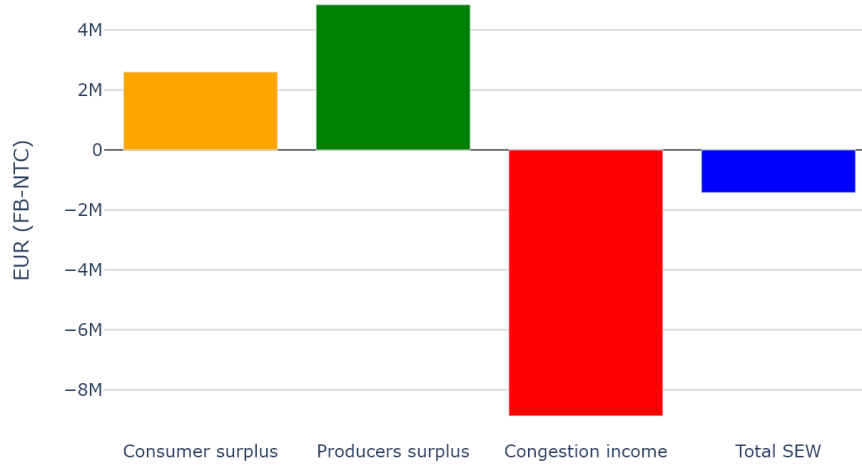


Total socio economic welfaregain FB-NTC per BZ in SE





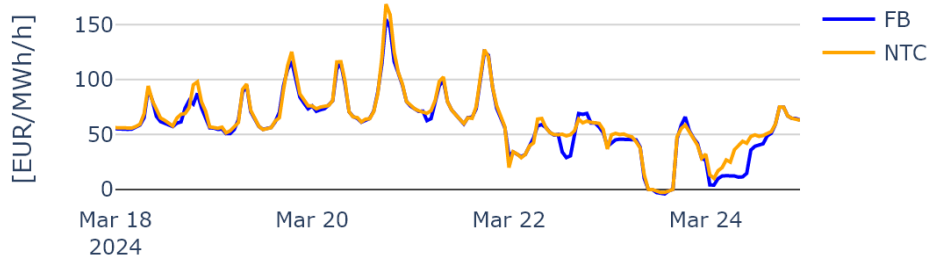
SE, socio-economic welfare per stakeholder and country



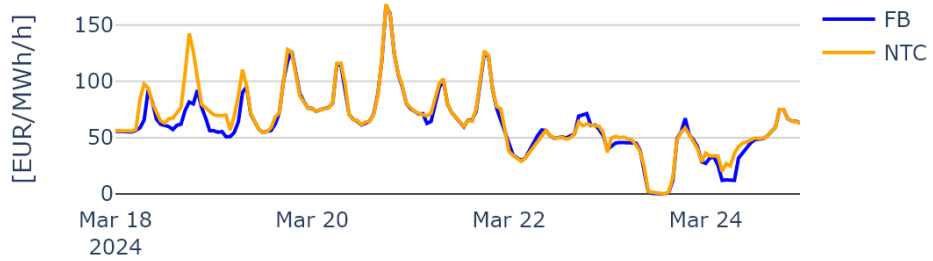


## Prices

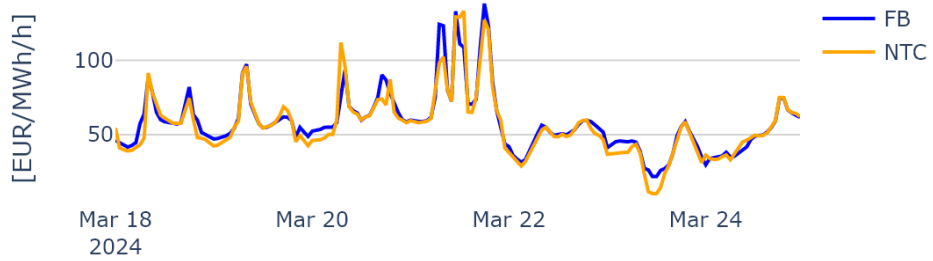
### DK1 price



### DK2 price

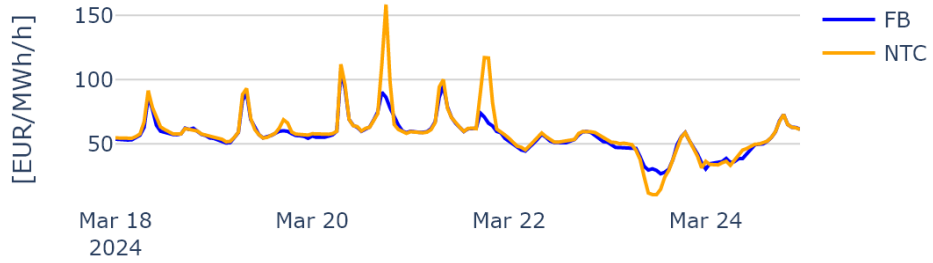


### FI price

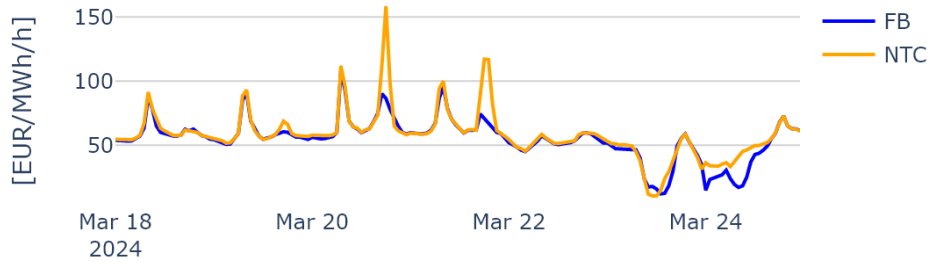




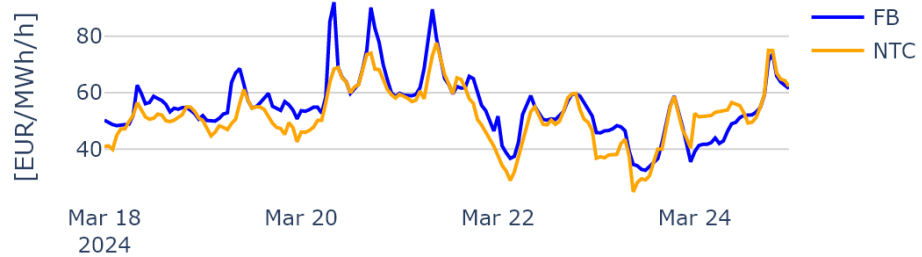
### NO1 price



### NO2 price

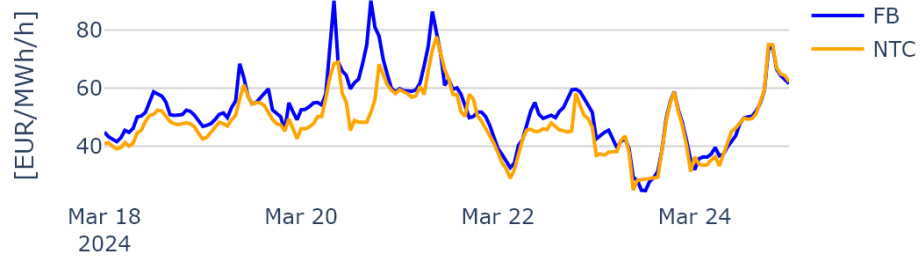


### NO3 price

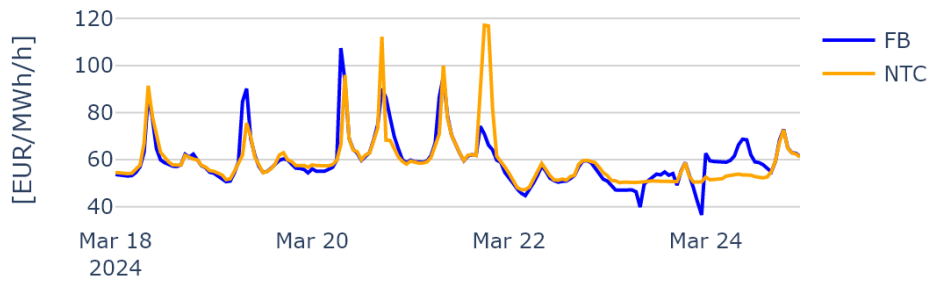




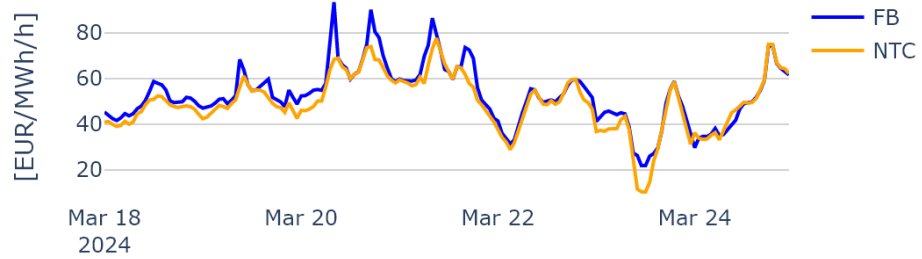
### NO4 price



### NO5 price

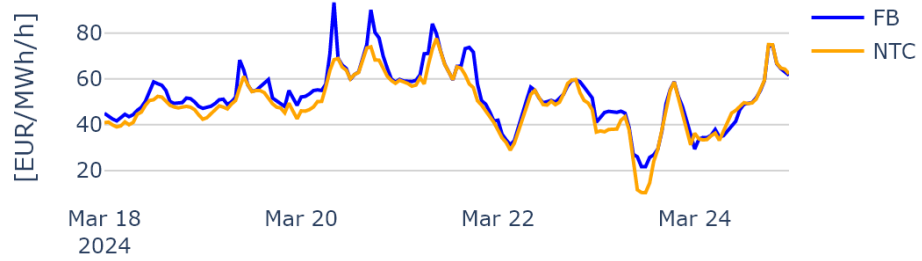


### SE1 price

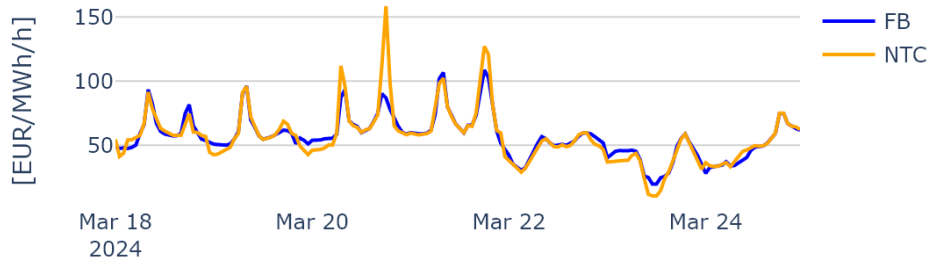




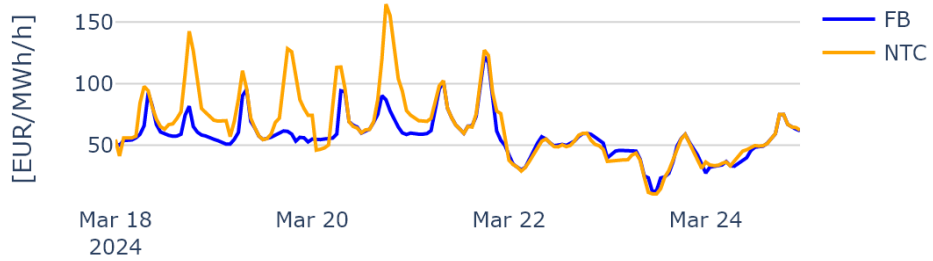
### SE2 price



### SE3 price



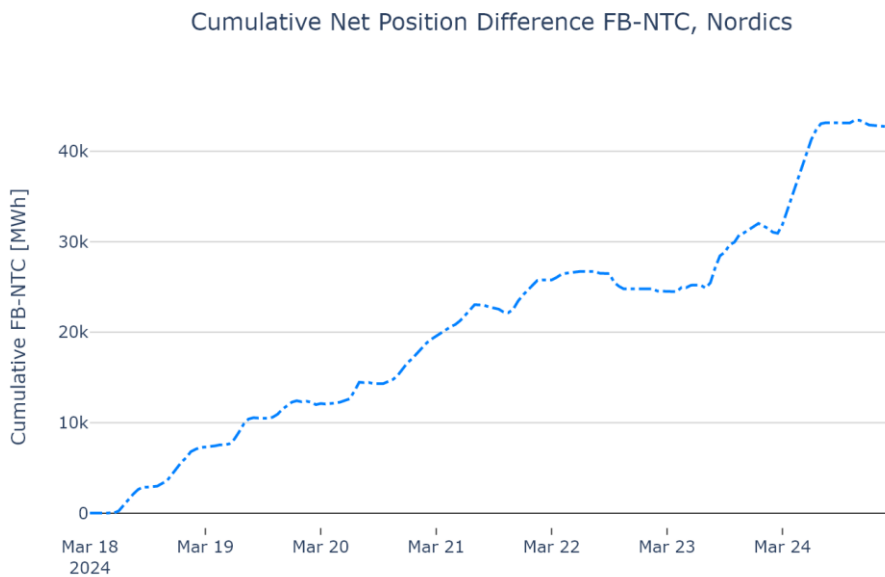
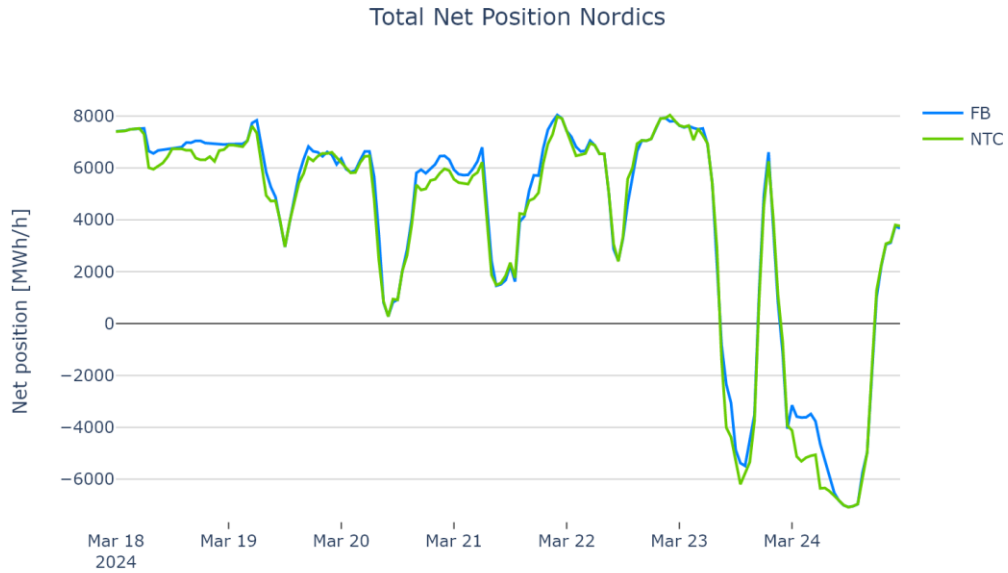
### SE4 price





## Net positions

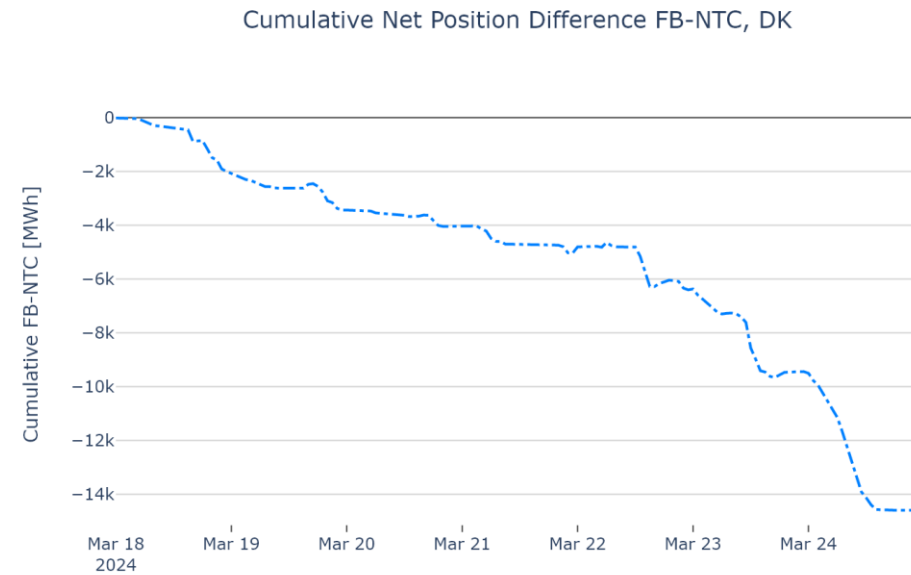
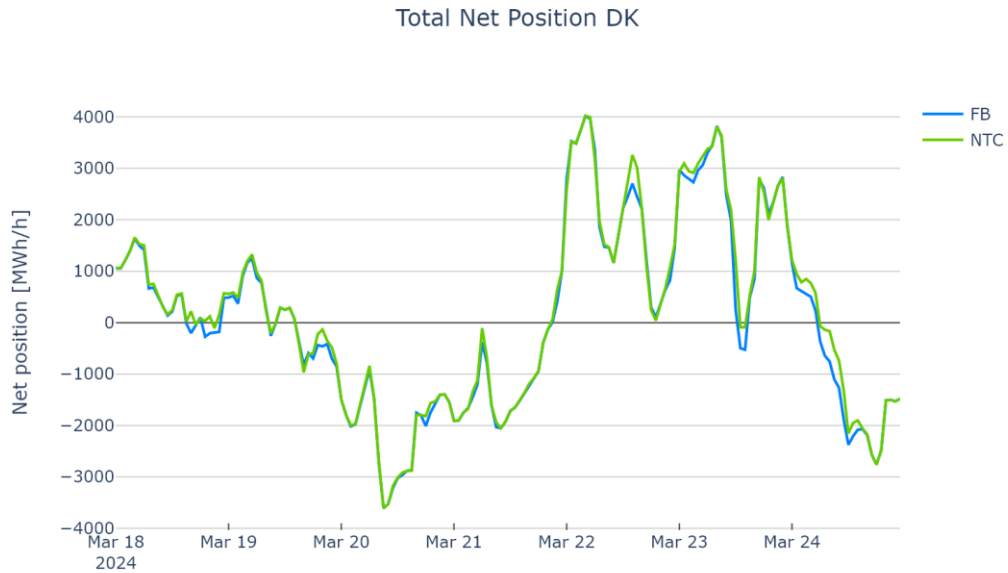
### Nordics





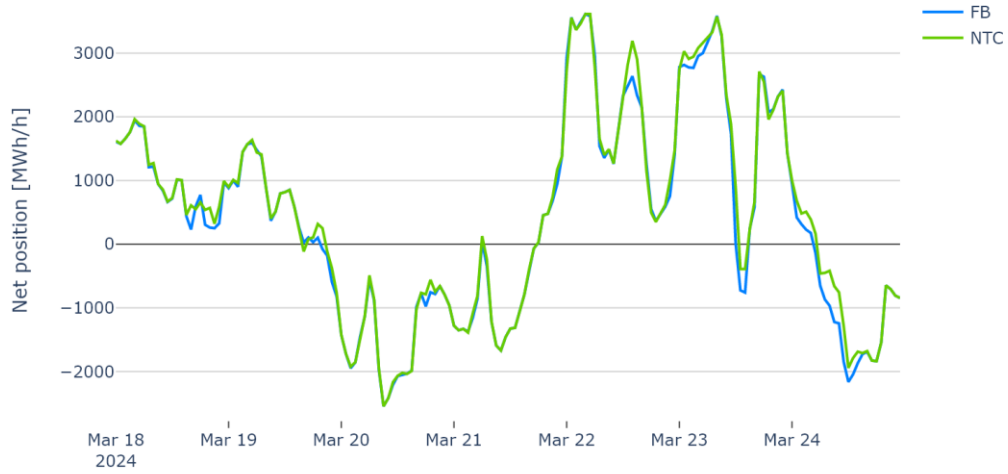


## Denmark



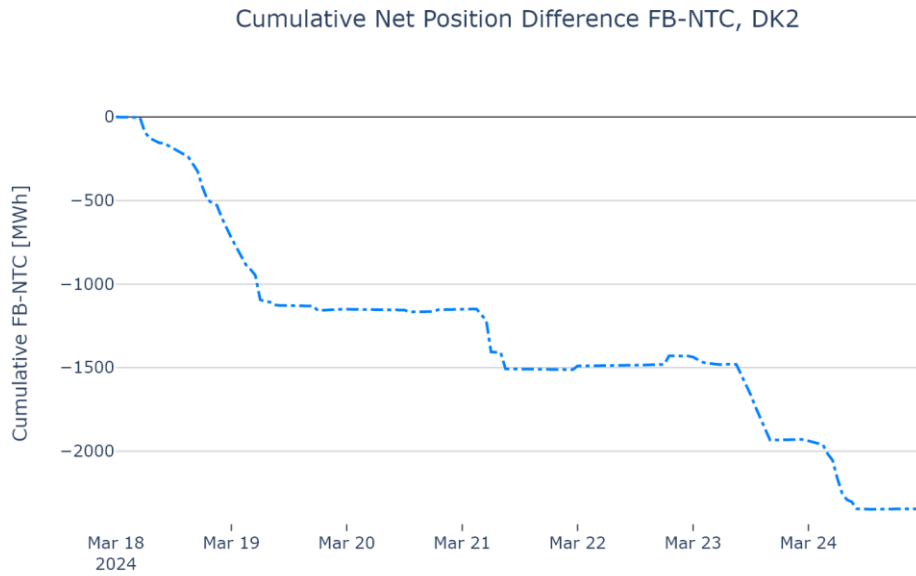
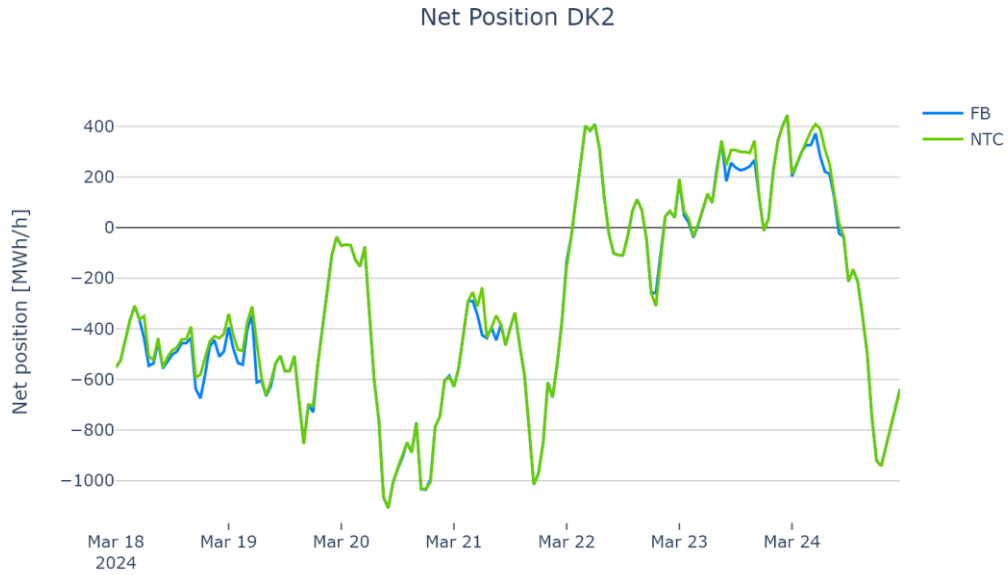


Net Position DK1



Cumulative Net Position Difference FB-NTC, DK1

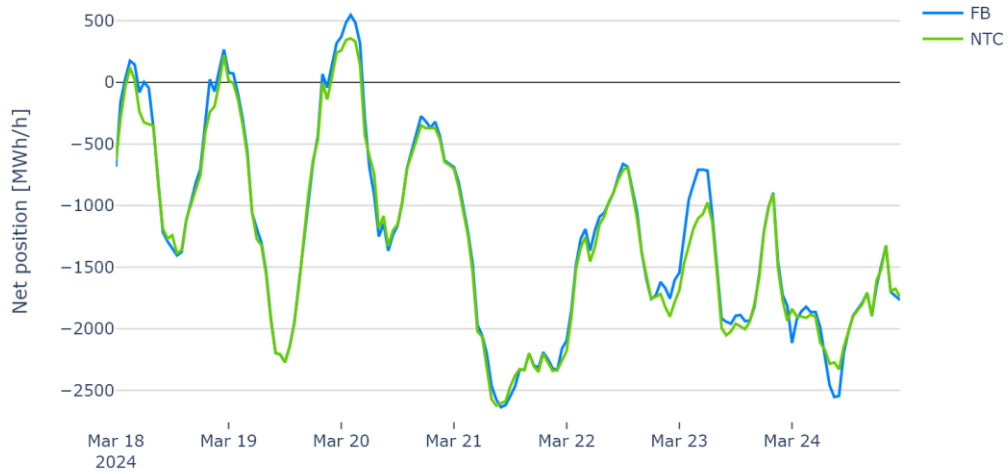






## Finland

Total Net Position FI

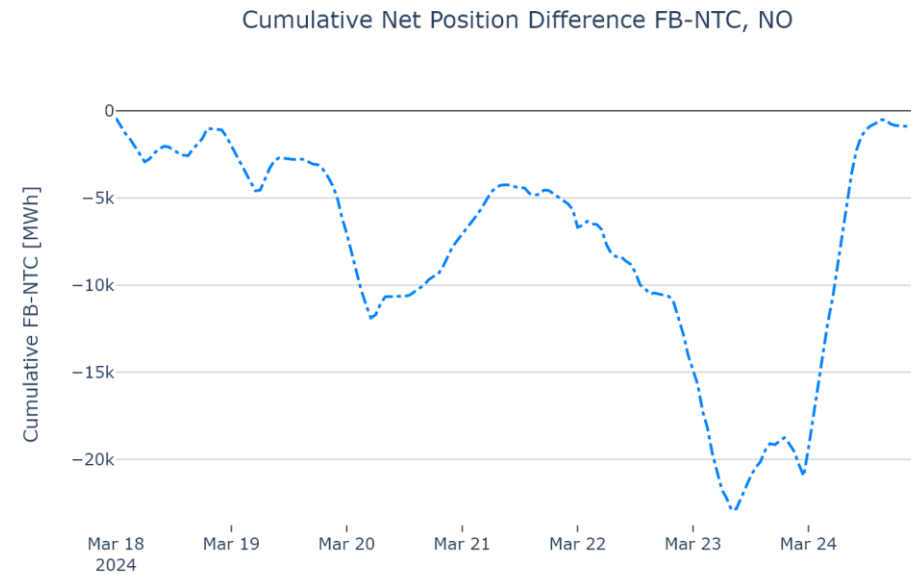
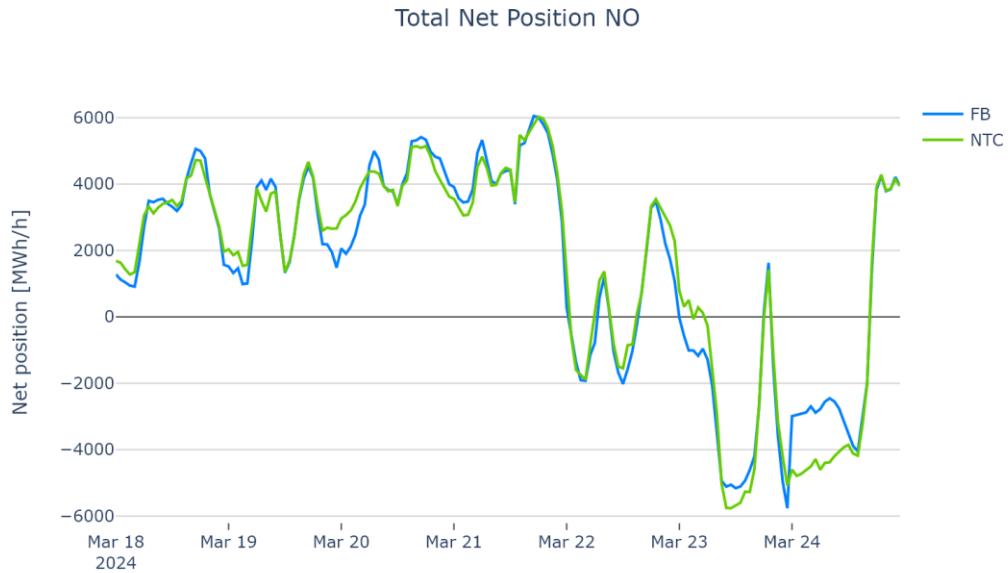


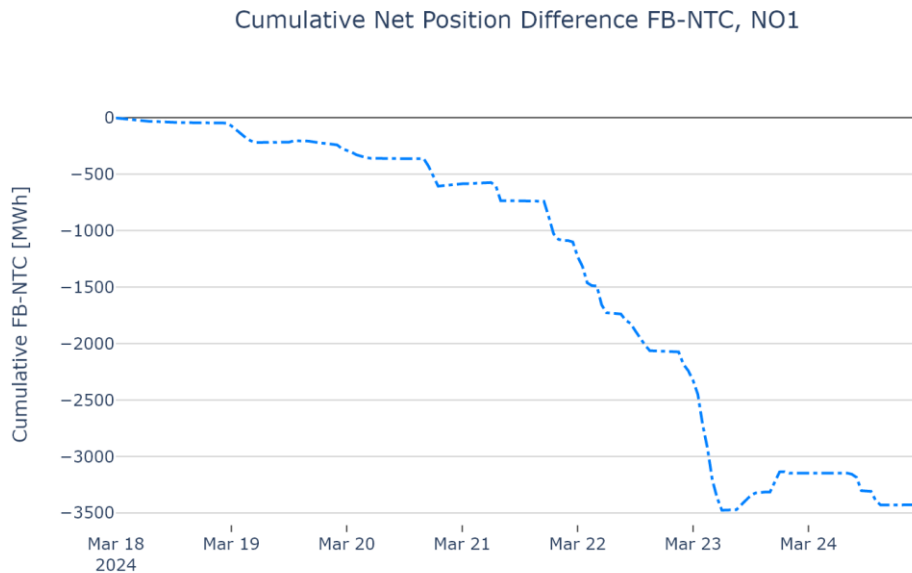
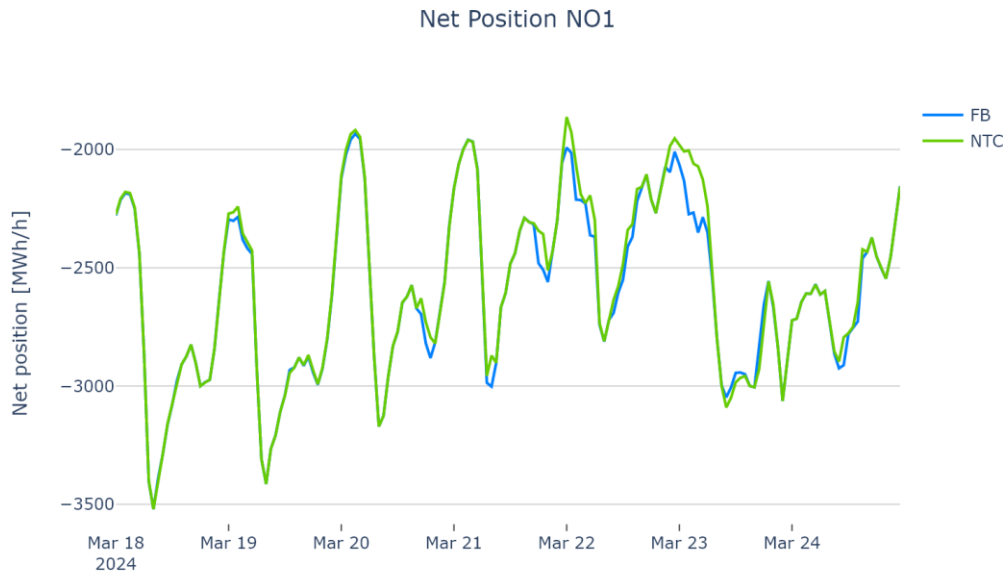
Cumulative Net Position Difference FB-NTC, FI





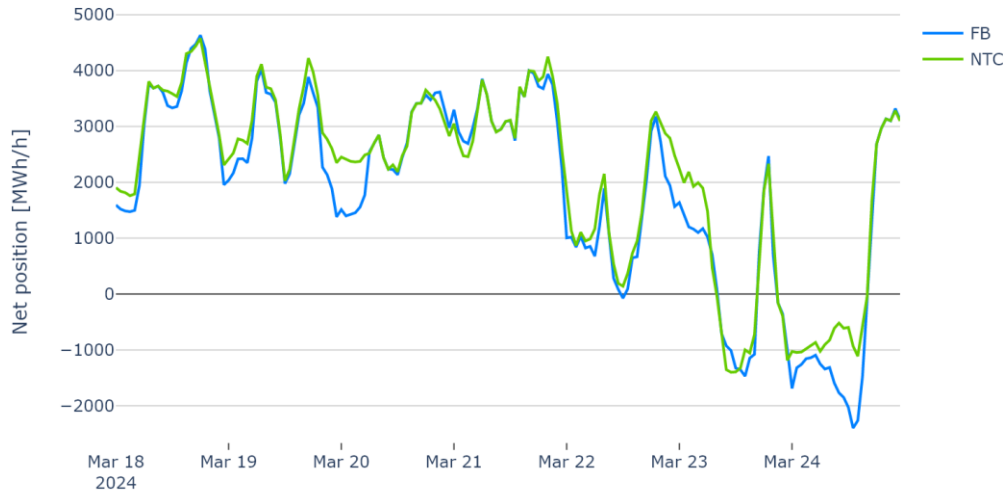
## Norway



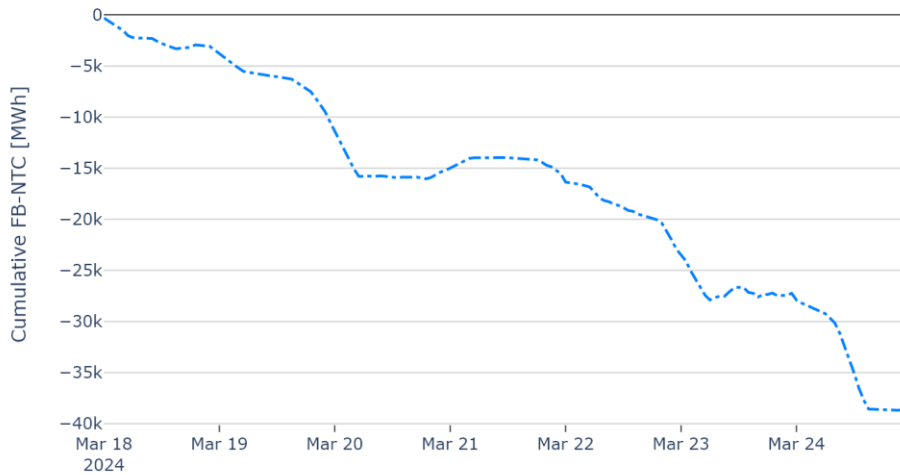


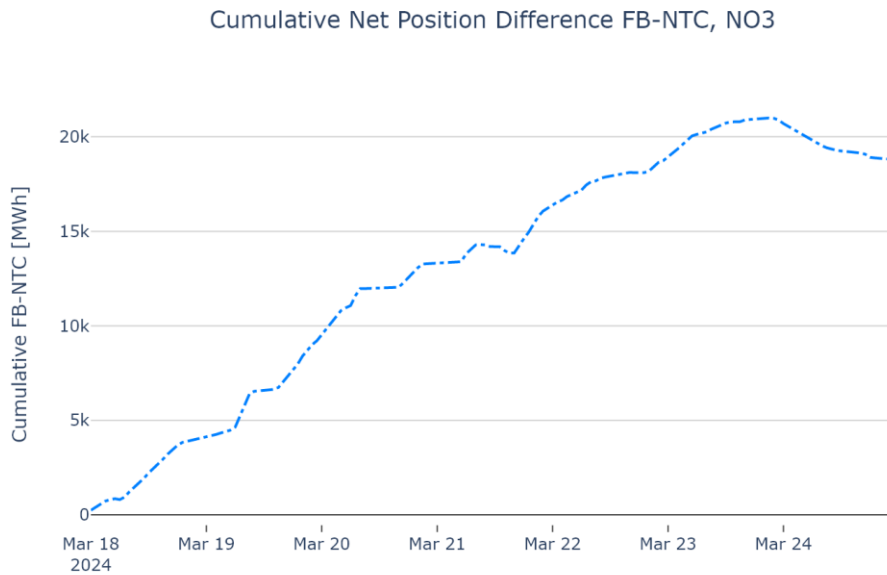
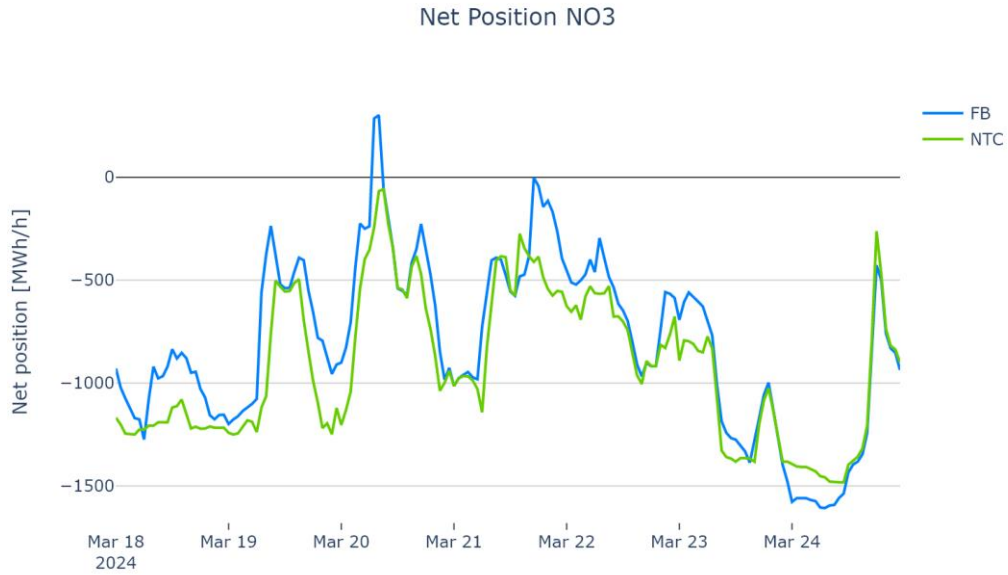


Net Position NO2



Cumulative Net Position Difference FB-NTC, NO2

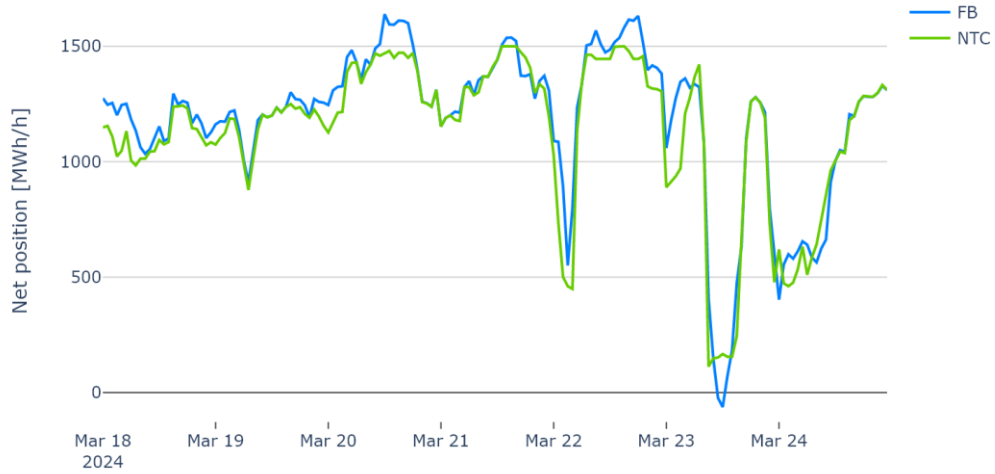




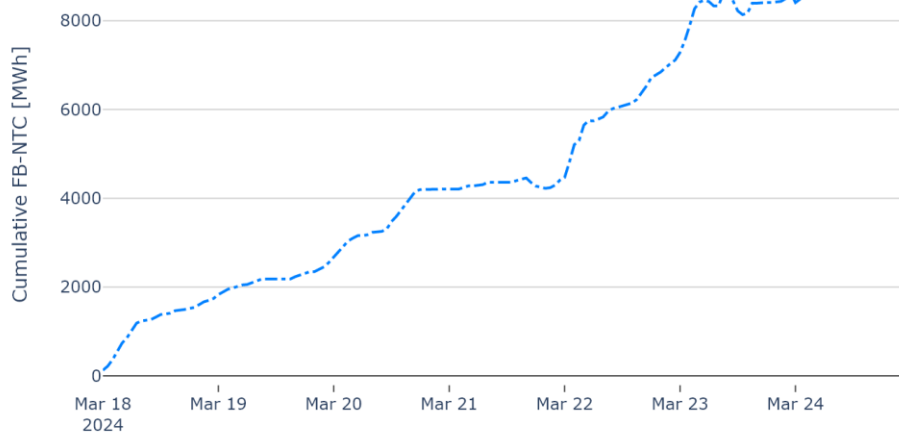


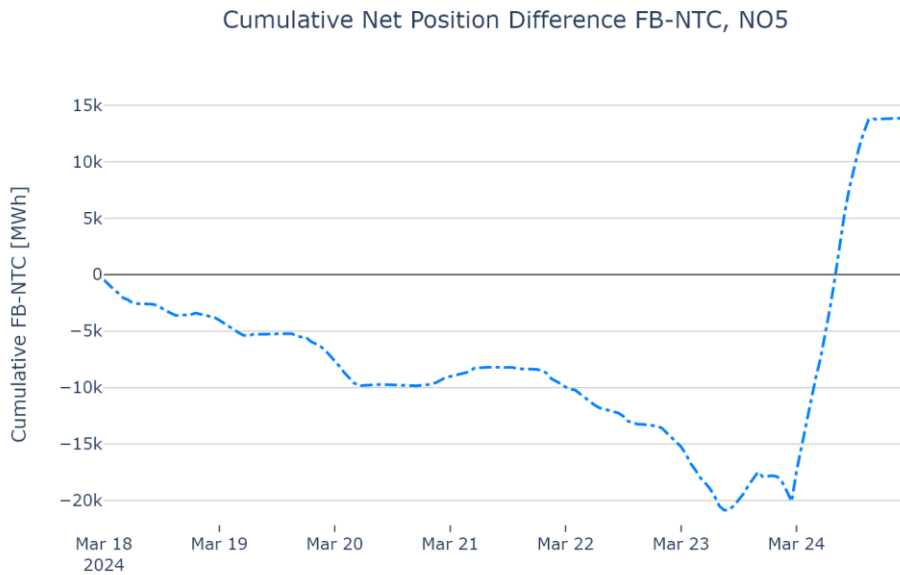
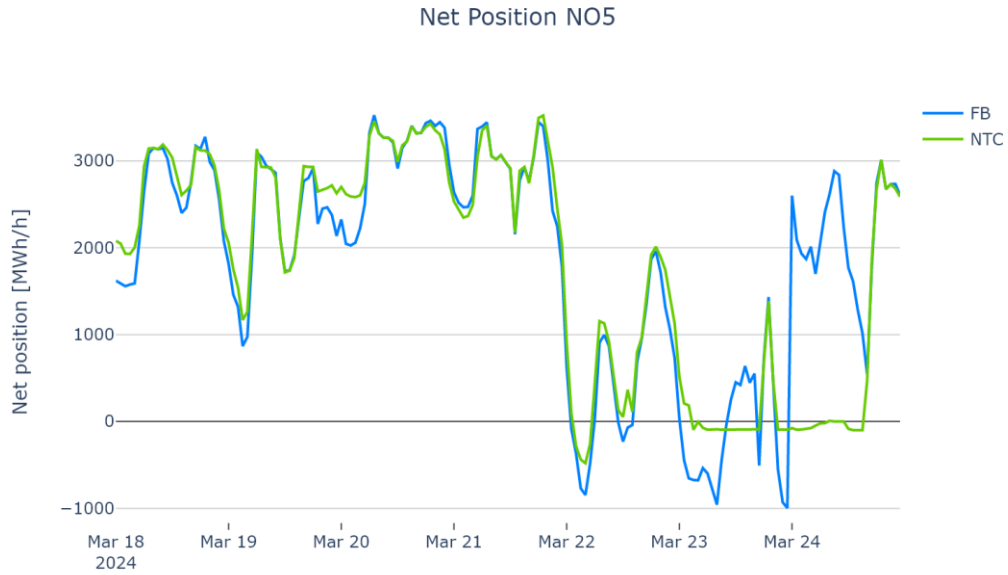


Net Position NO4



Cumulative Net Position Difference FB-NTC, NO4

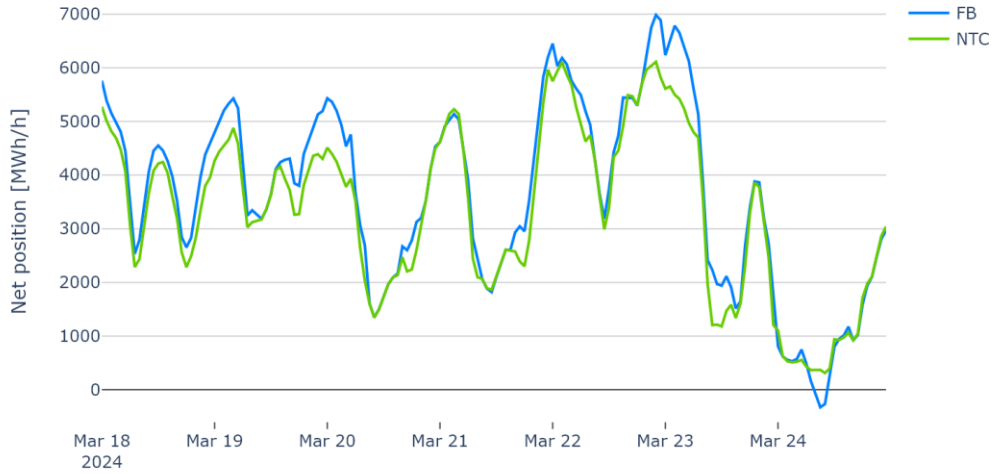




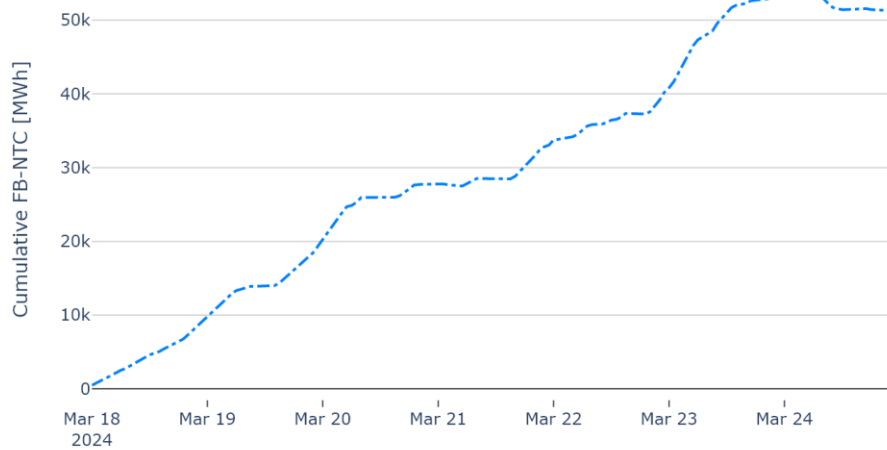


## Sweden

Total Net Position SE

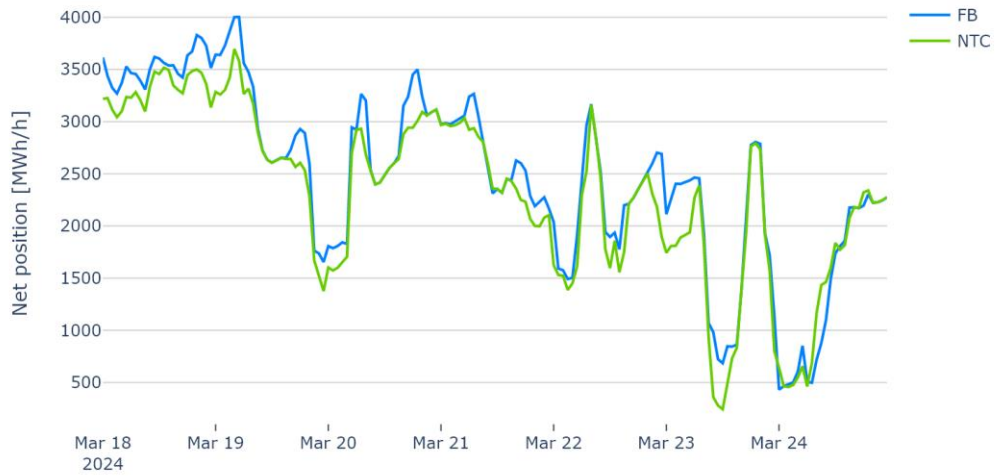


Cumulative Net Position Difference FB-NTC, SE

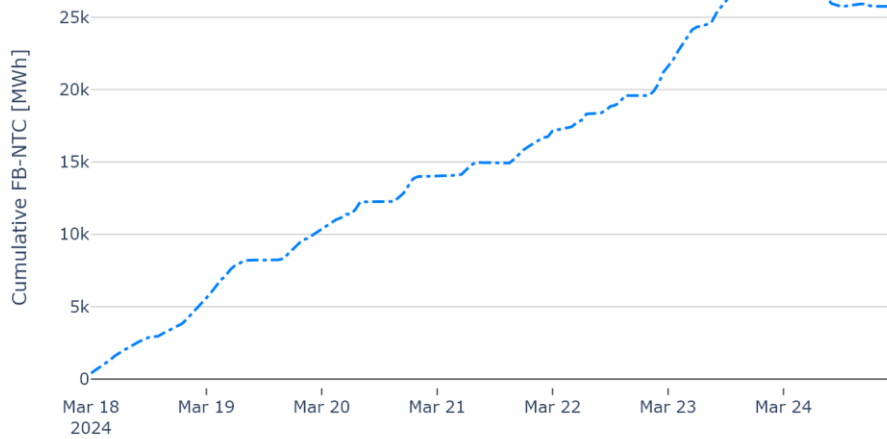


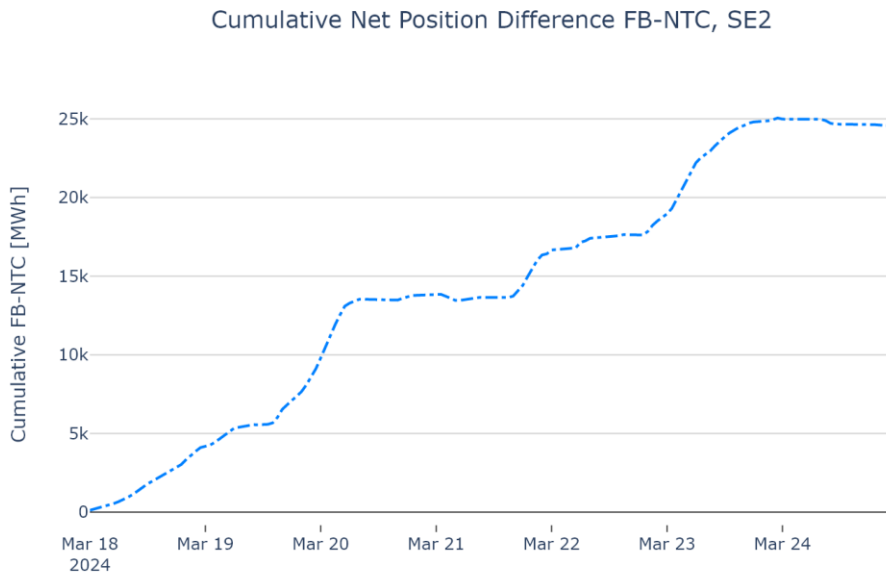
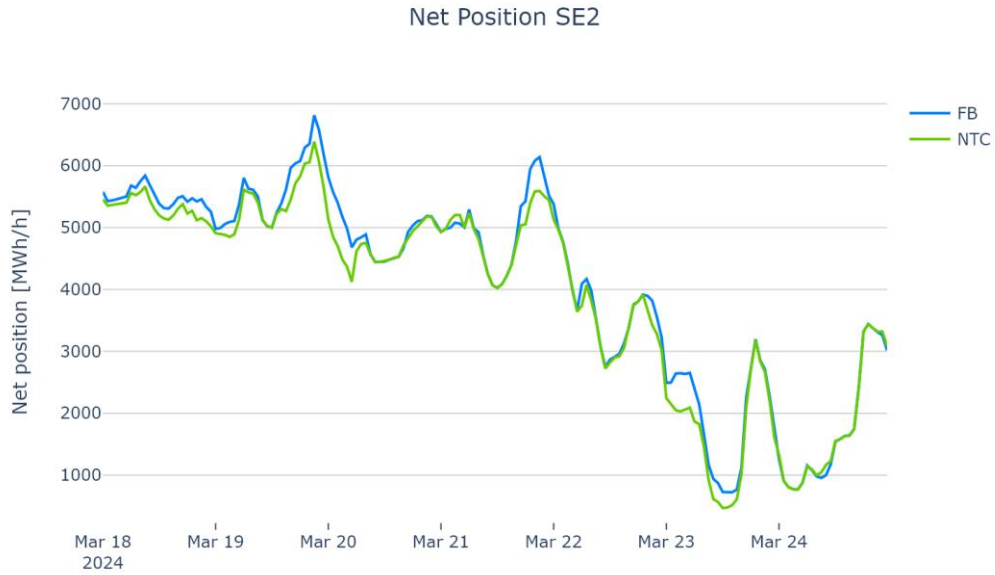


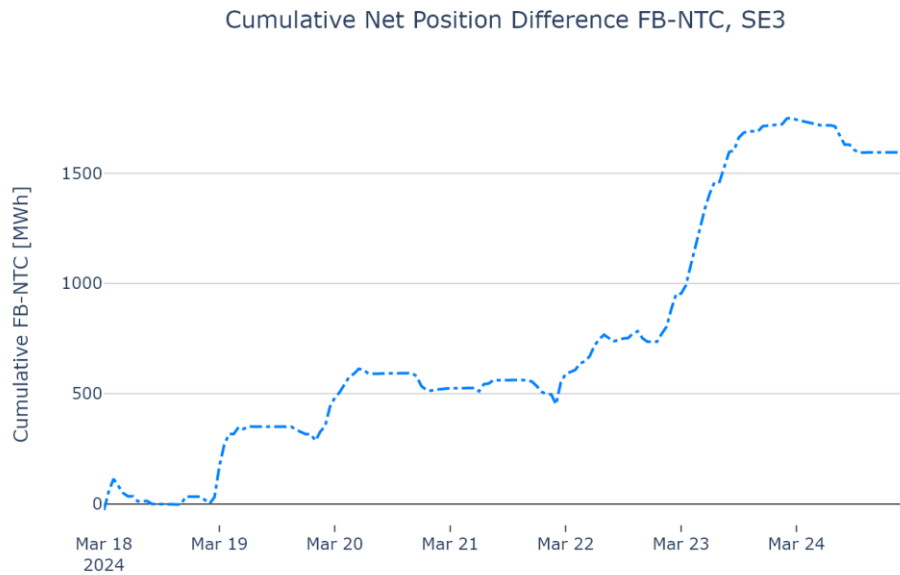
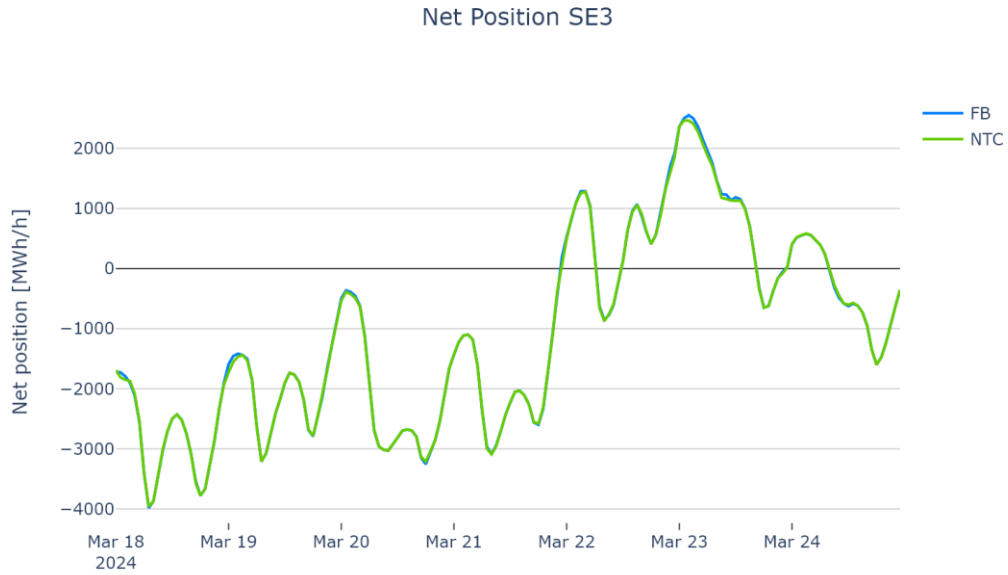
Net Position SE1

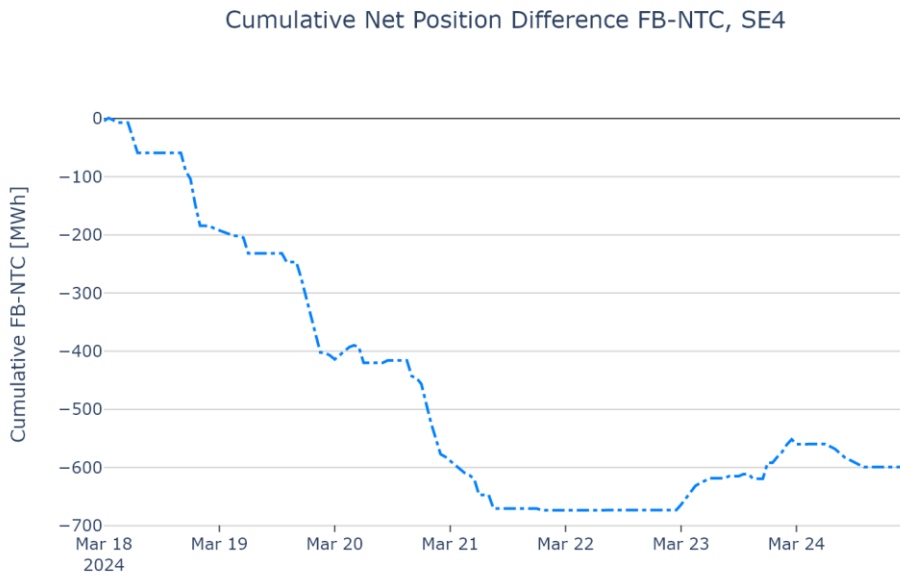
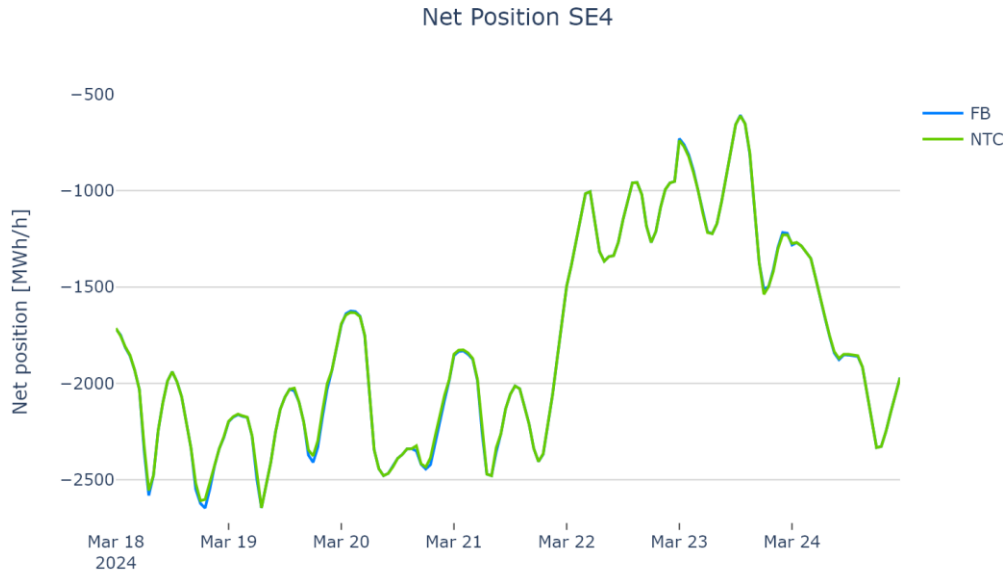


Cumulative Net Position Difference FB-NTC, SE1











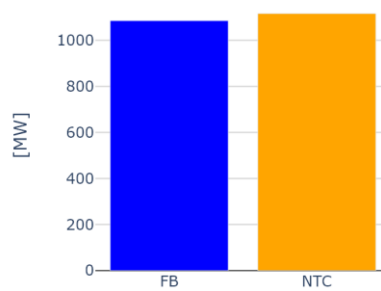
## Border flow

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.

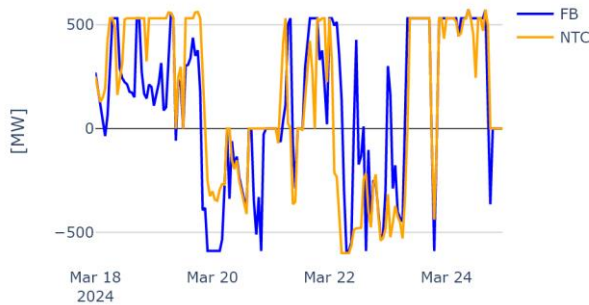
DK1 > DE/LU Physical Flow



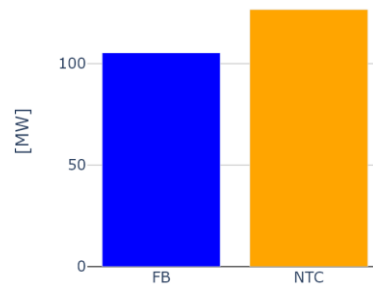
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow



DK1 > DK2 Average flow on border



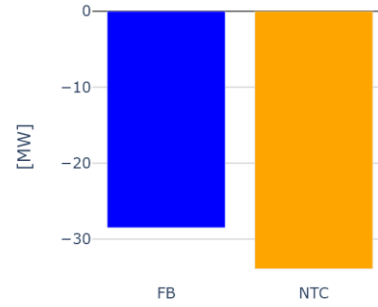




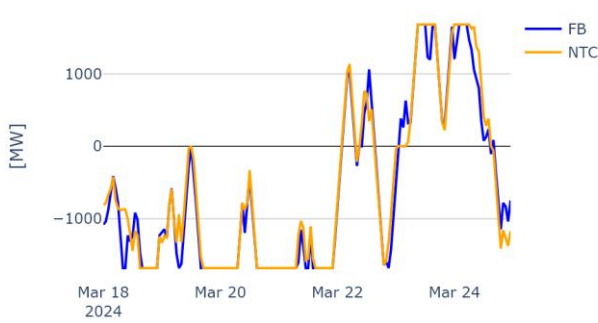
DK1 > NL Physical Flow



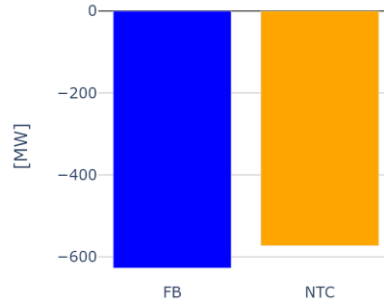
DK1 > NL Average flow on border



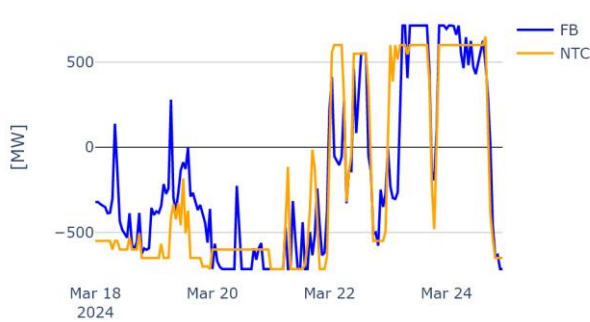
DK1 > NO2 Physical Flow



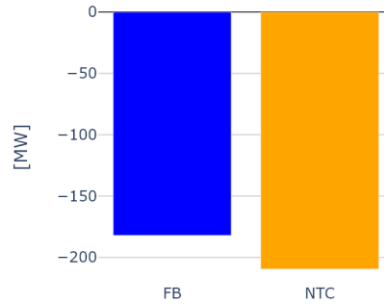
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

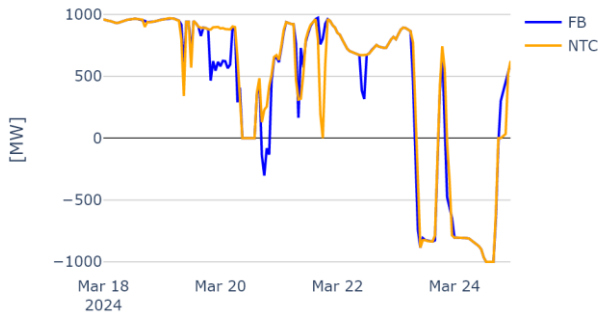


DK1 > SE3 Average flow on border

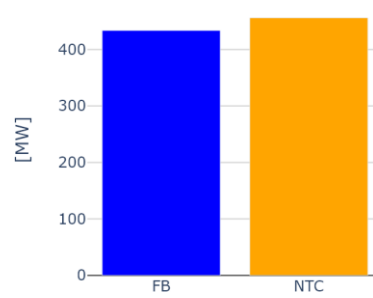




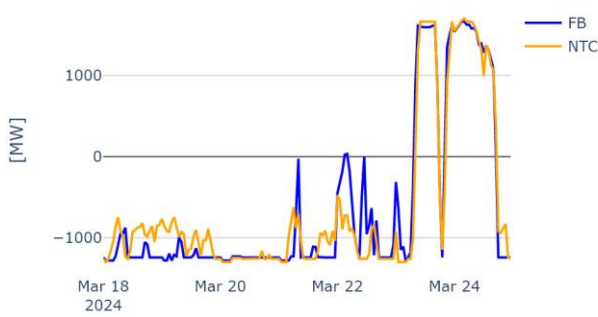
DK2 > DE/LU Physical Flow



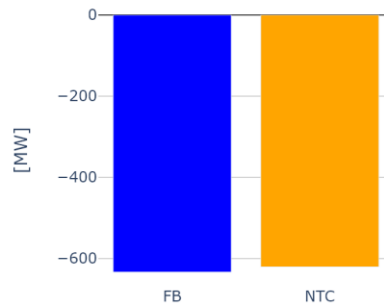
DK2 > DE/LU Average flow on border



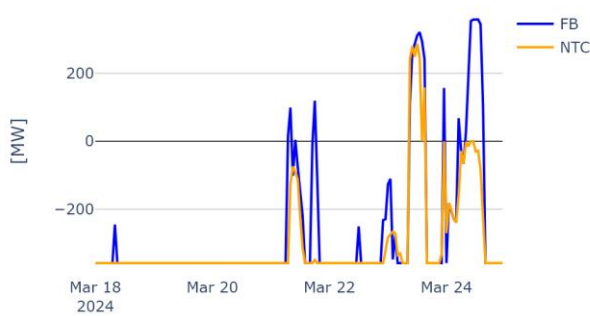
DK2 > SE4 Physical Flow



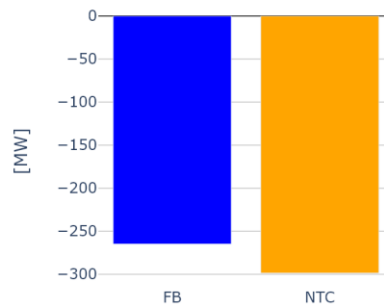
DK2 > SE4 Average flow on border



EE > FI Physical Flow

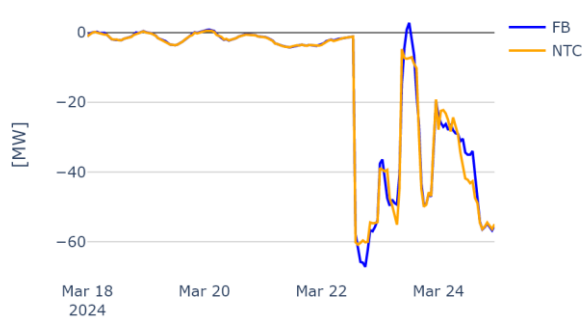


EE > FI Average flow on border

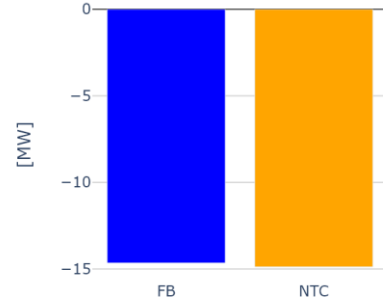




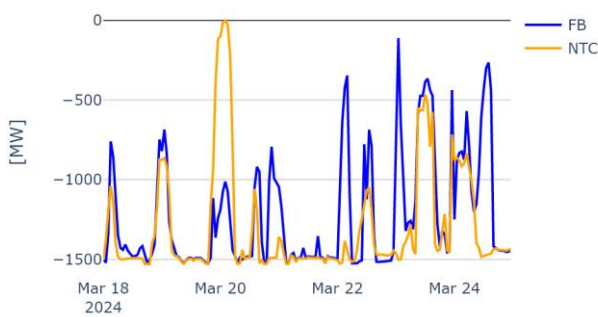
FI > NO4 Physical Flow



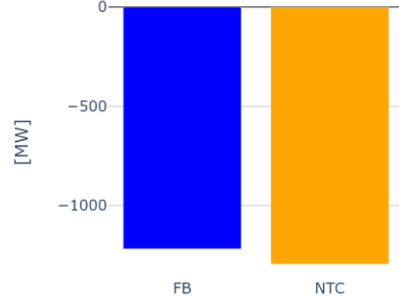
FI > NO4 Average flow on border



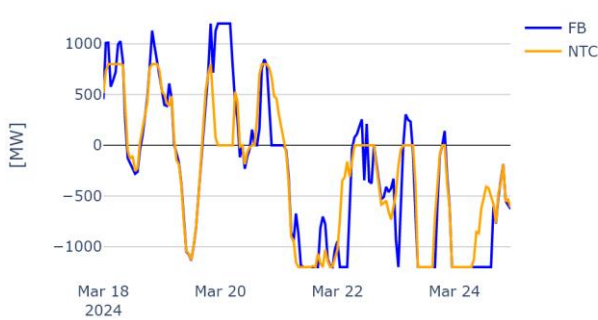
FI > SE1 Physical Flow



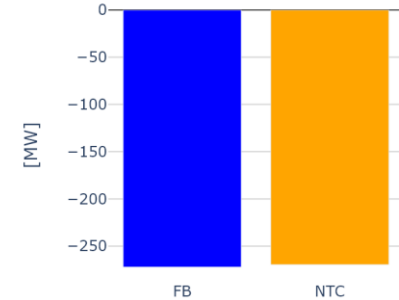
FI > SE1 Average flow on border



FI > SE3 Physical Flow

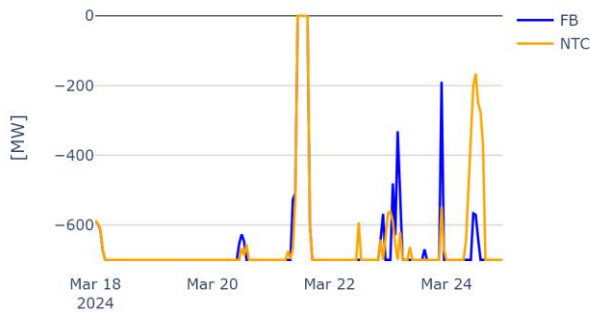


FI > SE3 Average flow on border

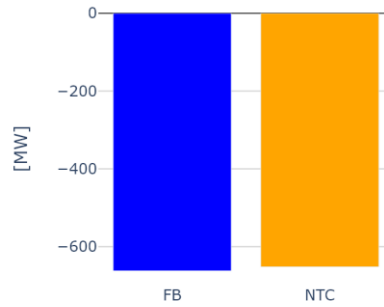




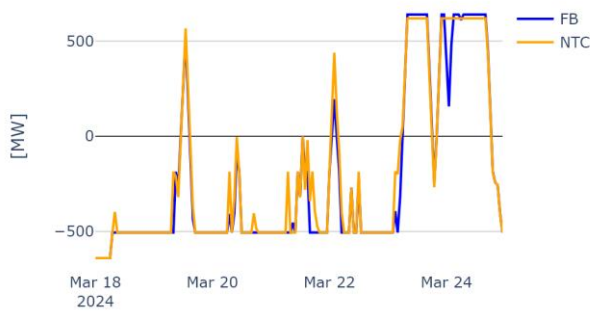
LT > SE4 Physical Flow



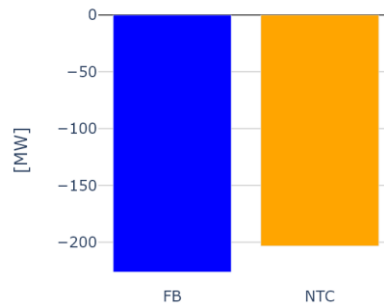
LT > SE4 Average flow on border



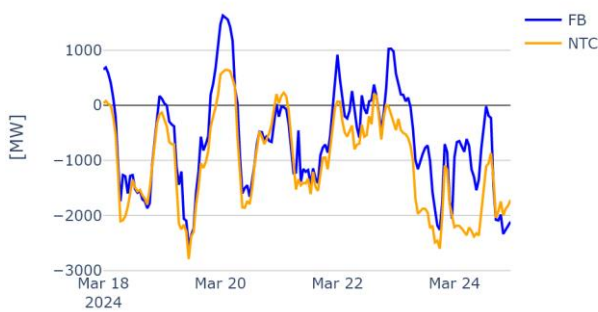
NL > NO2 Physical Flow



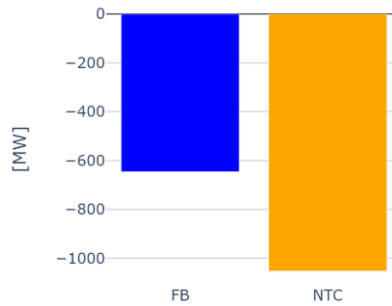
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

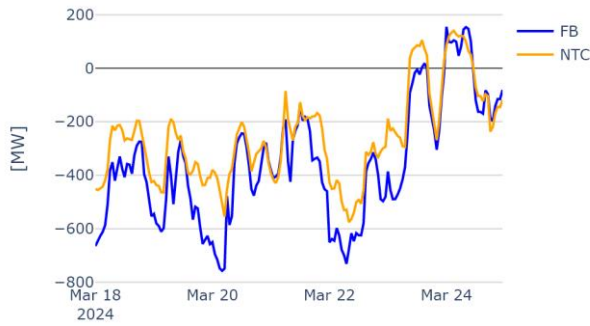


NO1 > NO2 Average flow on border

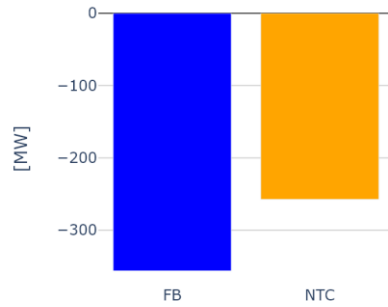




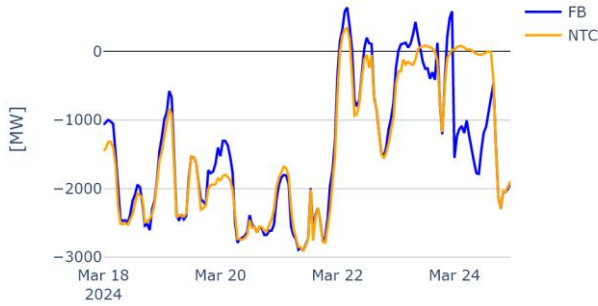
NO1 > NO3 Physical Flow



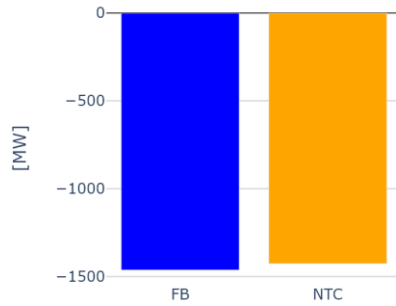
NO1 > NO3 Average flow on border



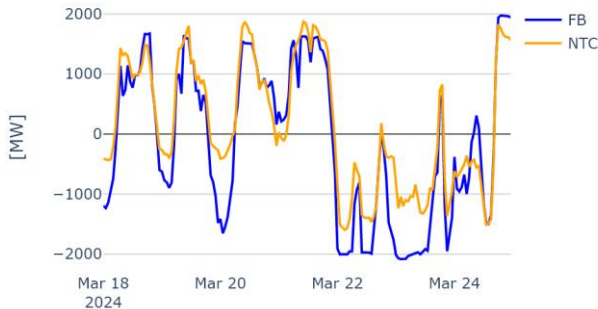
NO1 > NO5 Physical Flow



NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow



NO1 > SE3 Average flow on border





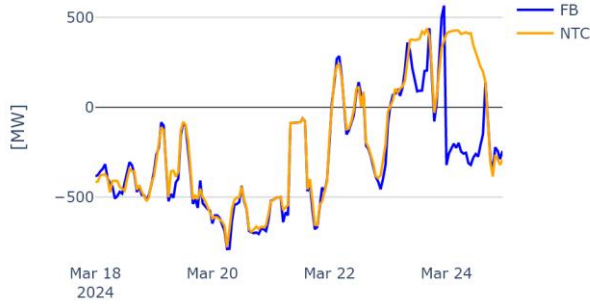
NO2 > DE/LU Physical Flow



NO2 > DE/LU Average flow on border



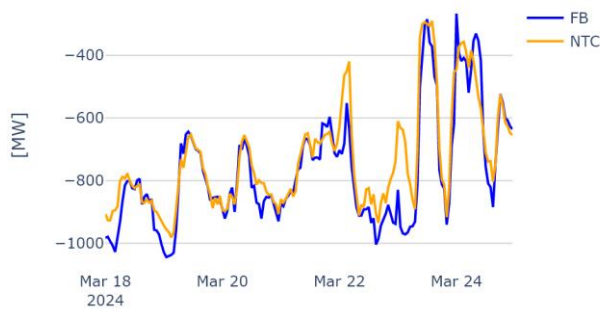
NO2 > NO5 Physical Flow



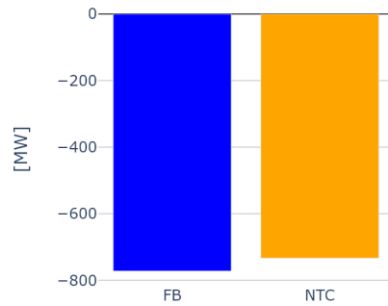
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

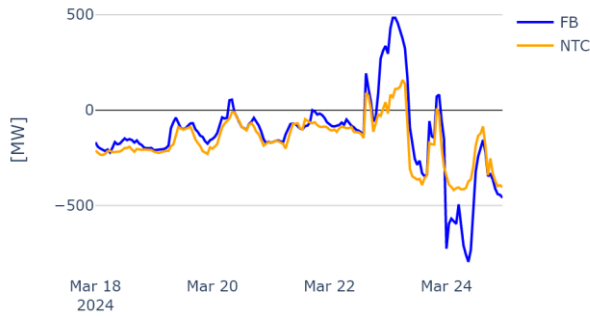


NO3 > NO4 Average flow on border

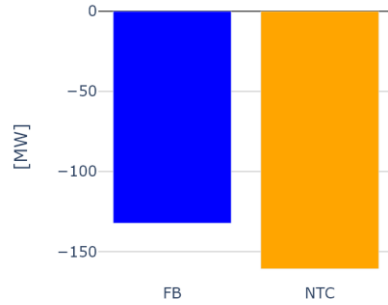




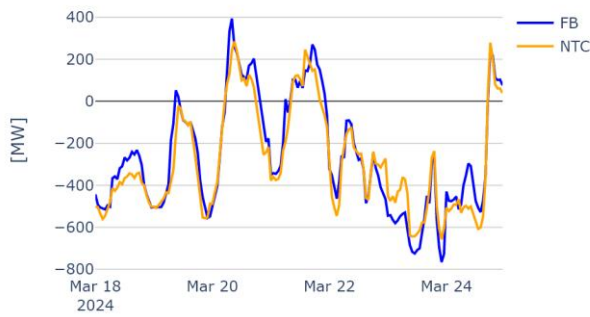
NO3 > NO5 Physical Flow



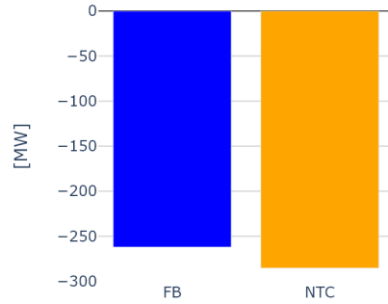
NO3 > NO5 Average flow on border



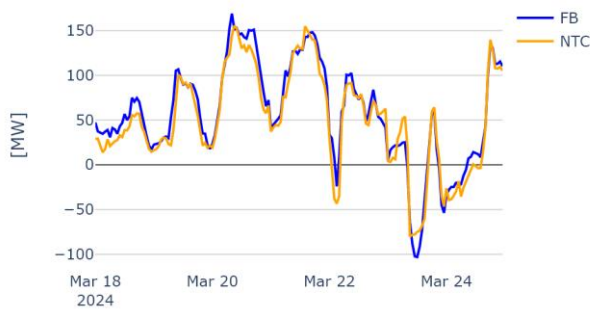
NO3 > SE2 Physical Flow



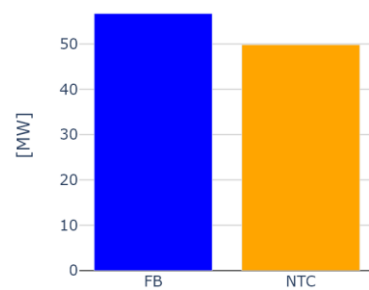
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

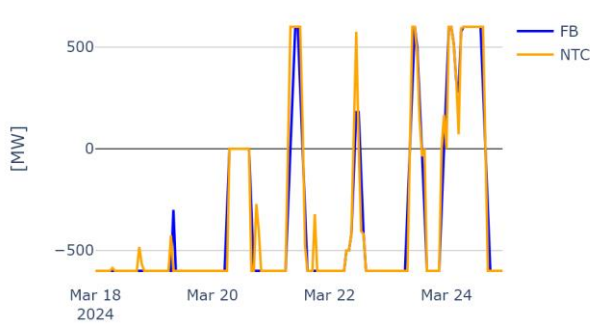


NO4 > SE2 Average flow on border

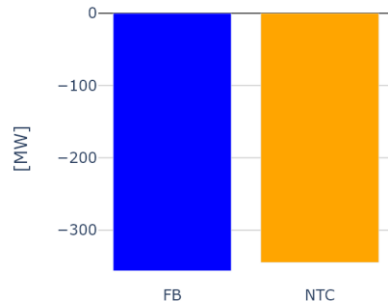




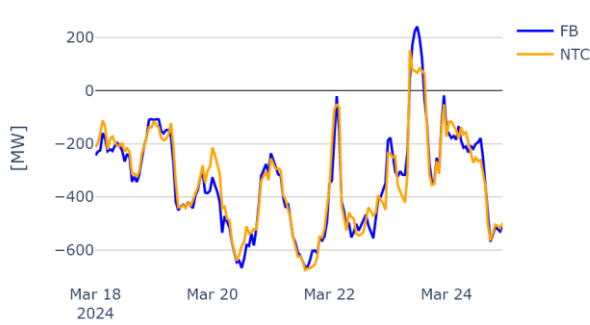
PL > SE4 Physical Flow



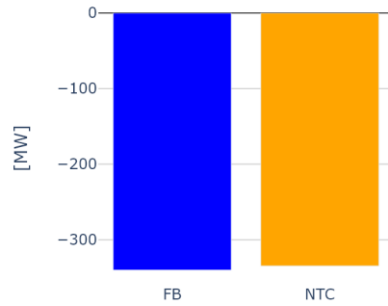
PL > SE4 Average flow on border



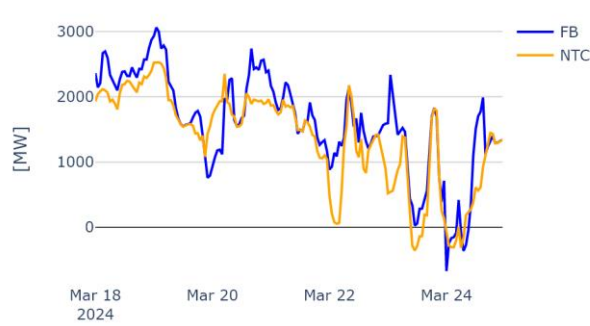
SE1 > NO4 Physical Flow



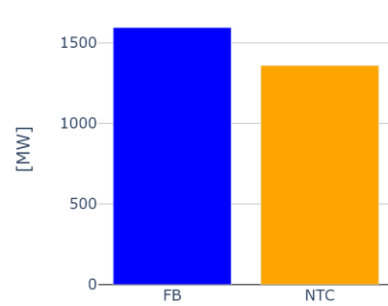
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow



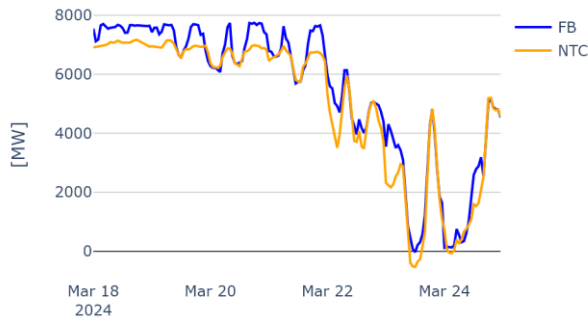
SE1 > SE2 Average flow on border



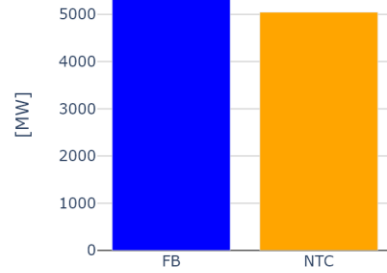




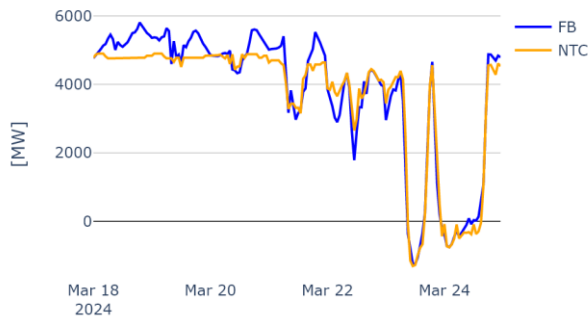
SE2 > SE3 Physical Flow



SE2 > SE3 Average flow on border



SE3 > SE4 Physical Flow



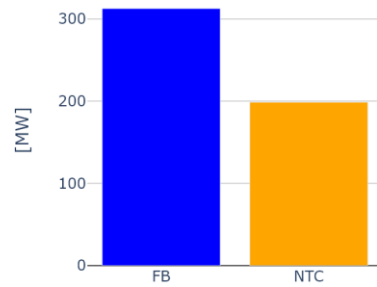
SE3 > SE4 Average flow on border



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	3571066	10
DK1 > DK2	99503	1
DK1 > NL	816117	9
DK1 > NO2	2179722	10
DK1 > SE3	996874	10
DK2 > DE/LU	1505032	10
DK2 > SE4	1874285	8
EE > FI	1549775	26
FI > NO4	2999	5
FI > SE1	1289495	5
FI > SE3	407008	2
LT > SE4	2956543	25
NL > NO2	1302895	16
NO1 > NO2	263630	2
NO1 > NO3	174942	2
NO1 > NO5	-507184	-3
NO1 > SE3	709299	3
NO2 > DE/LU	2933225	16
NO2 > NO5	-86002	-1
NO3 > NO4	325185	3
NO3 > NO5	-217390	-4
NO3 > SE2	185082	3
NO4 > SE2	14090	1
PL > SE4	1839925	19
SE1 > NO4	52817	0
SE1 > SE2	-7118	0
SE2 > SE3	4992443	4
SE3 > SE4	556334	1
SE4 > DE/LU	1722400	19



## 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	16	-48772	-4
DK1 > NL	4	-16414	-4
DK1 > NO2	6	-56263	-9
DK1 > SE3	14	-13155	-1
DK2 > DE/LU	1	-288	-1
DK2 > SE4	7	-1832	0
EE > FI	2	-24	0
FI > NO4	22	-859	-1
FI > SE1	1	-3	0
FI > SE3	9	-4999	-1
LT > SE4	3	-1609	-1
NL > NO2	2	-5063	-5
NO1 > NO2	24	-16119	0
NO1 > NO3	22	-11336	-2
NO1 > NO5	46	-514995	-6
NO1 > SE3	5	-11285	-4
NO2 > DE/LU	7	-69001	-16
NO2 > NO5	21	-135293	-14
NO3 > NO4	10	-5623	-1
NO3 > NO5	56	-225367	-8
NO3 > SE2	7	-6869	-3
NO4 > SE2	30	-3599	-1
PL > SE4	14	-309075	-29
SE1 > NO4	37	-14786	-1
SE1 > SE2	35	-37881	0
SE2 > SE3	20	-39088	-1
SE3 > SE4	21	-78854	-1
SE4 > DE/LU	2	-117	-1