



Nordic Capacity Calculation Methodology Project (Nordic CCM)

# Nordic CCM

External Parallel Run Market Report  
Appendix for Week 15 of 2024



## Appendix

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### Domain validation (NEW)

Energy Delivery Day:	Mon. 08.04	Tue. 09.04	Wed. 10.04	Thu. 11.04	Fri. 12.04	Sat. 13.04	Sun. 14.04
<b>Invalid/missing IGMs</b>	0	0	0	0	0	1	0
<b>Substituted IGMs</b>	0	0	0	3	0	1	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>	0	1	2	0	1	1	0
<b>Final domain acceptance (1 TSO =25%)</b>	100%	100%	100%	100%	100%	100%	100%

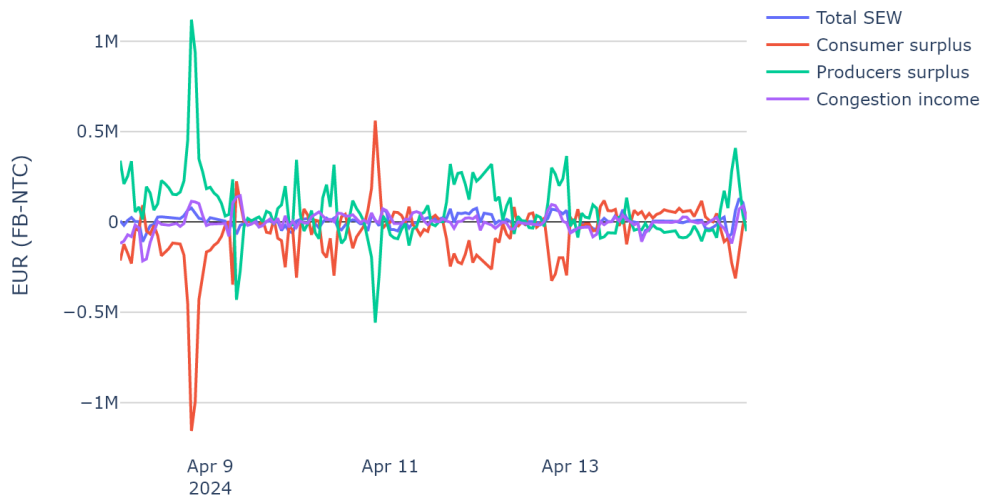


## Socio Economic Welfare

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.

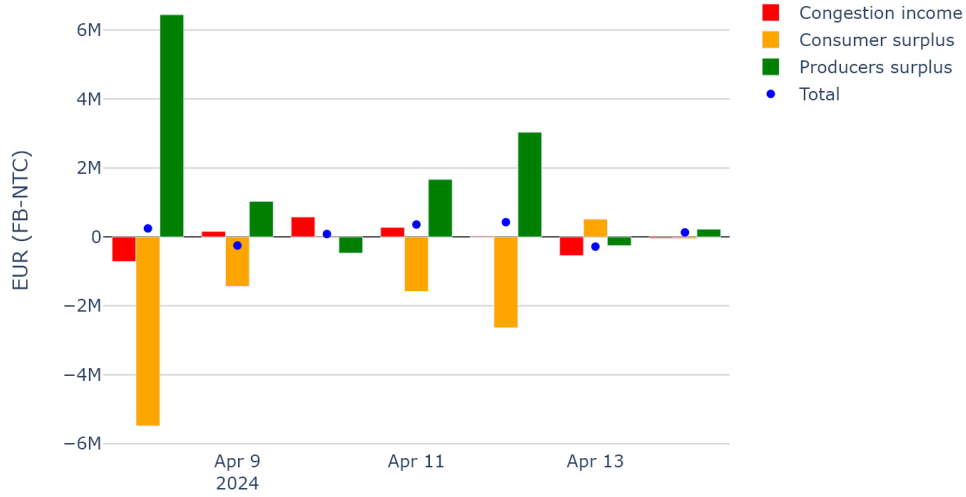
### Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

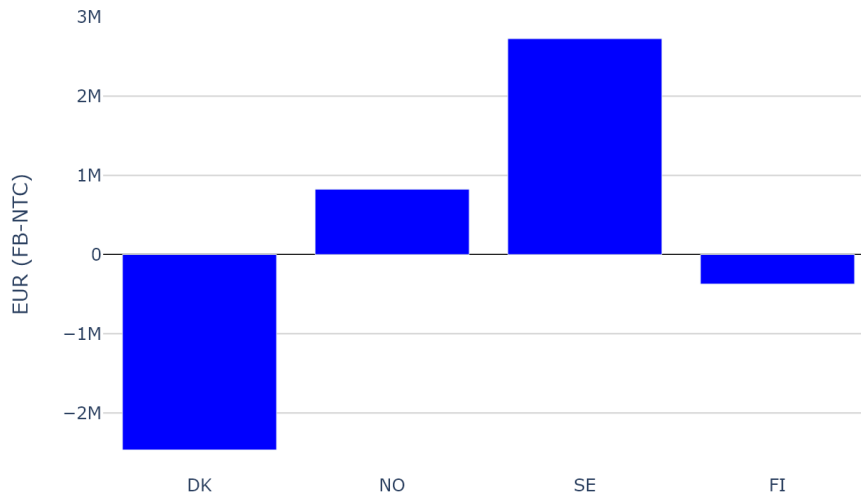




Nordics socio-economic welfare per stakeholder and day

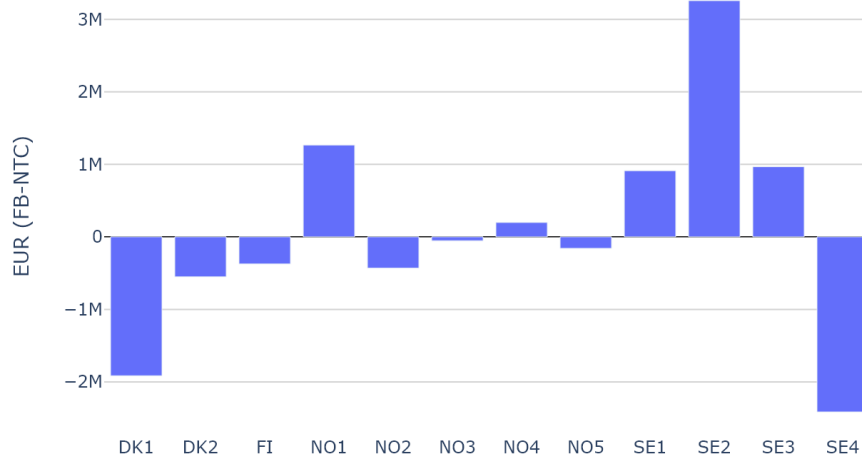


Total Nordic socio-economic welfare per country



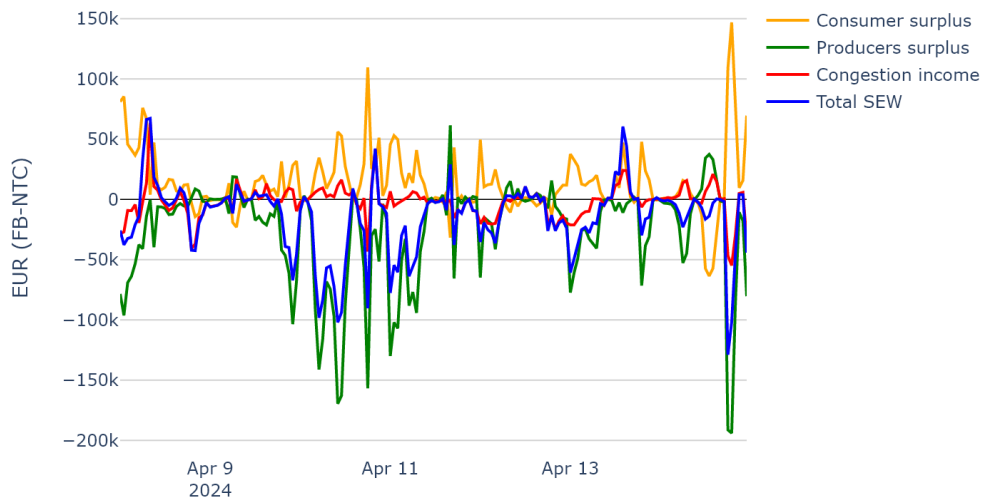


Socio economic welfaregain FB-NTC per BZ - Total\_sew



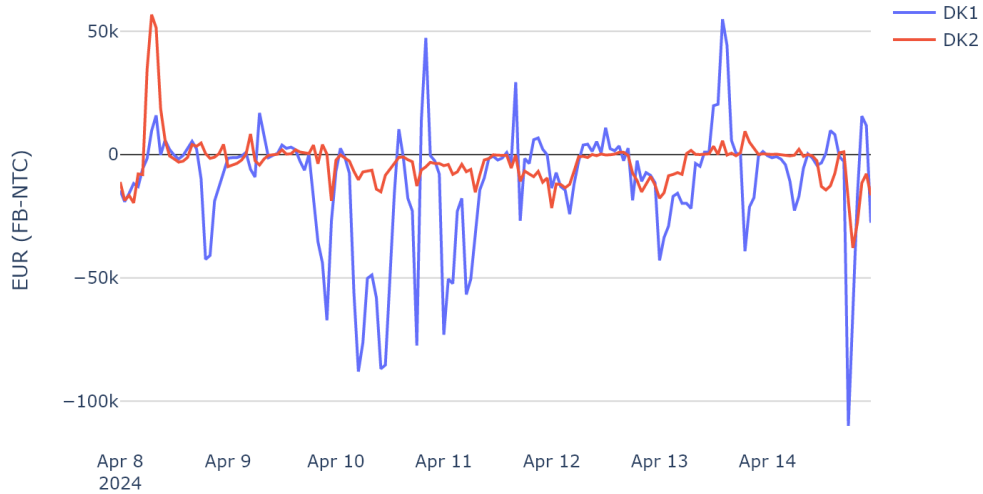
## Denmark

DK, socio-economic welfare per stakeholder and country

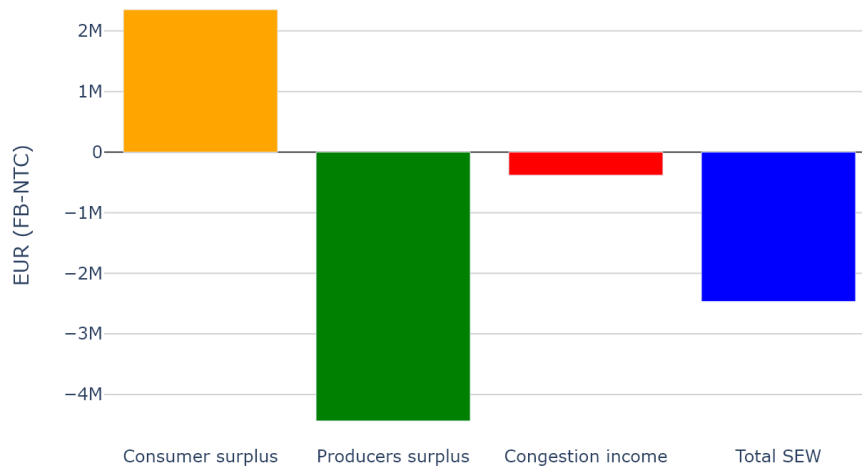




Total socio economic welfaregain FB-NTC per BZ in DK



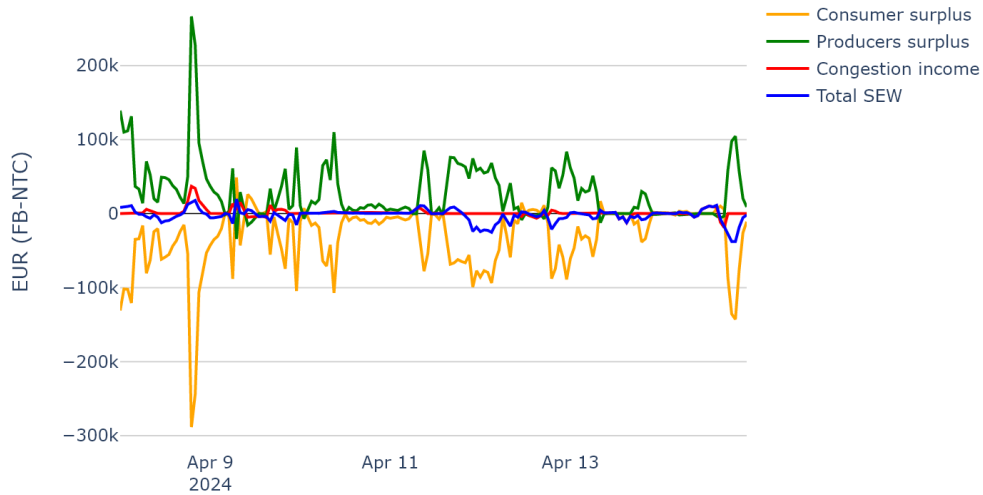
DK, socio-economic welfare per stakeholder and country



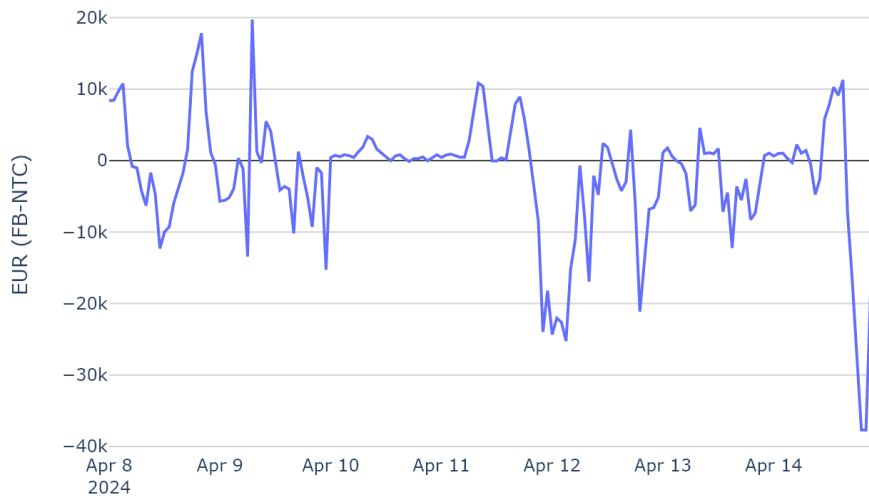


## Finland

FI, socio-economic welfare per stakeholder and country

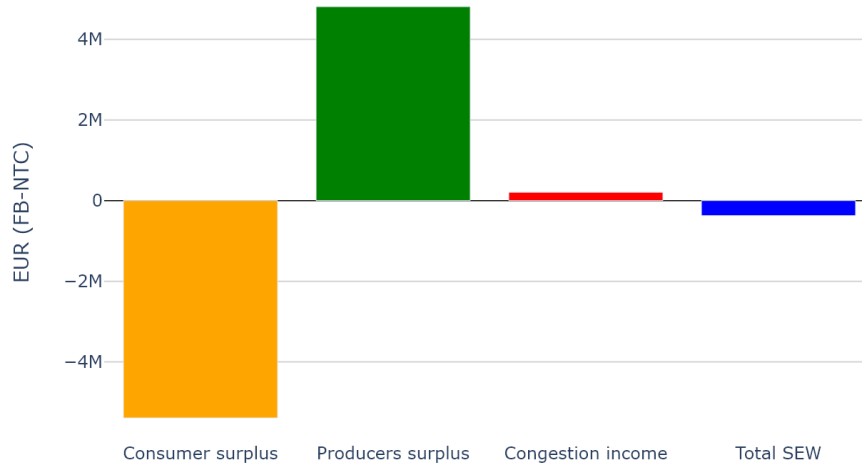


Total socio economic welfaregain FB-NTC per BZ in FI





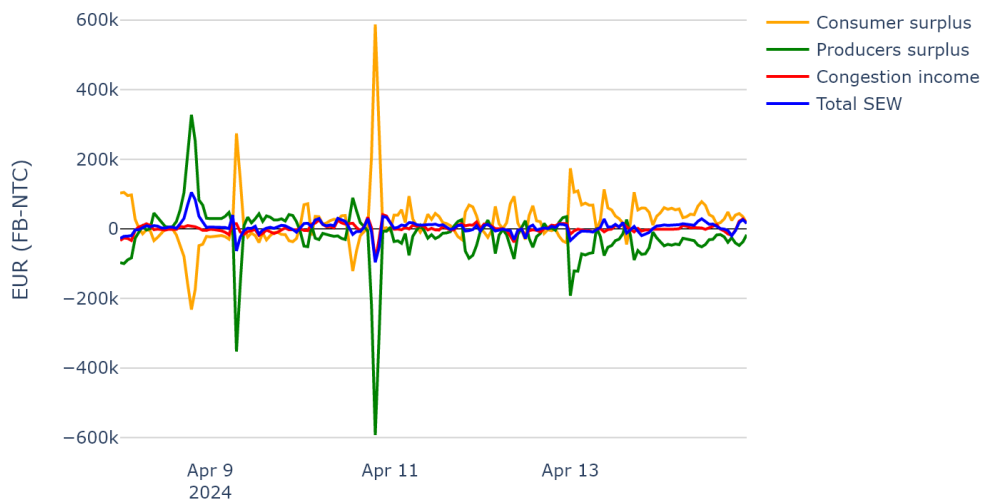
FI, socio-economic welfare per stakeholder and country



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## Norway

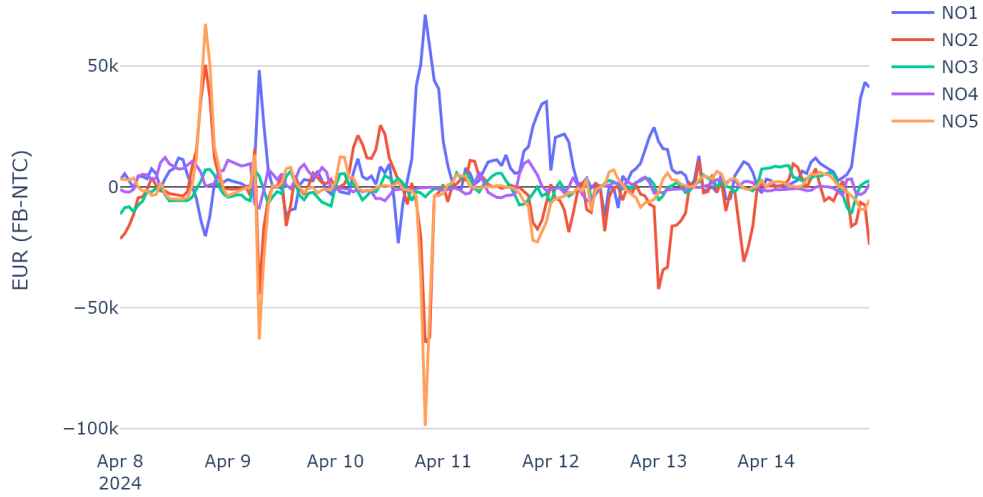
NO, socio-economic welfare per stakeholder and country



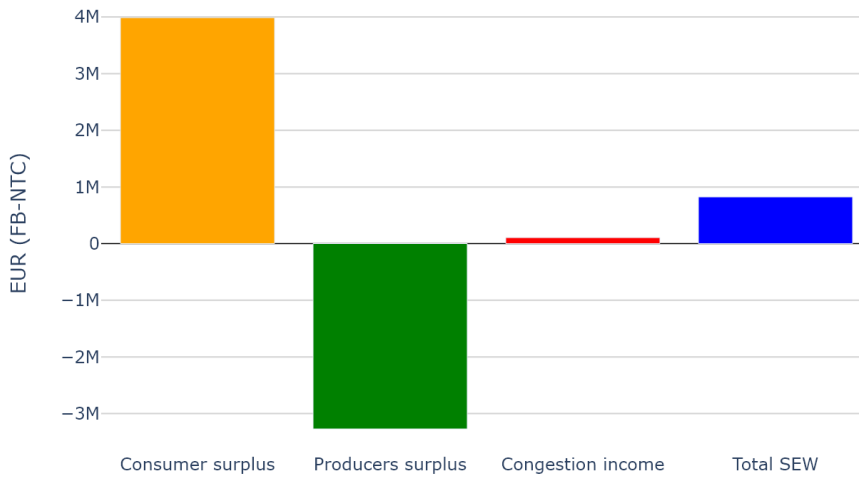




Total socio economic welfaregain FB-NTC per BZ in NO



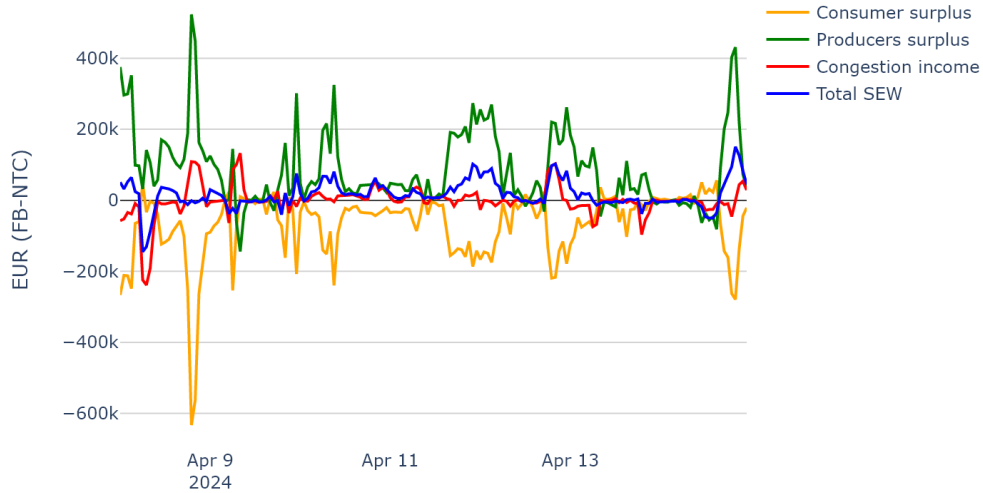
NO, socio-economic welfare per stakeholder and country



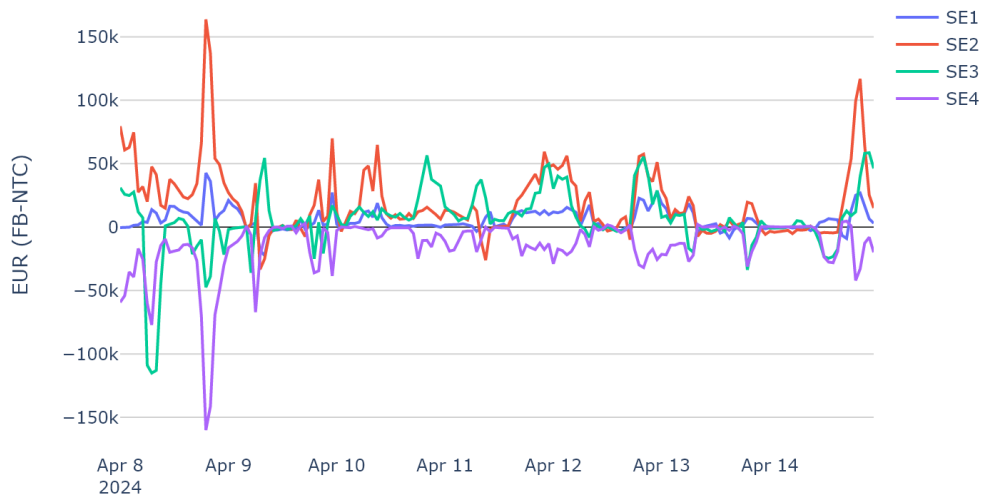


## Sweden

SE, socio-economic welfare per stakeholder and country

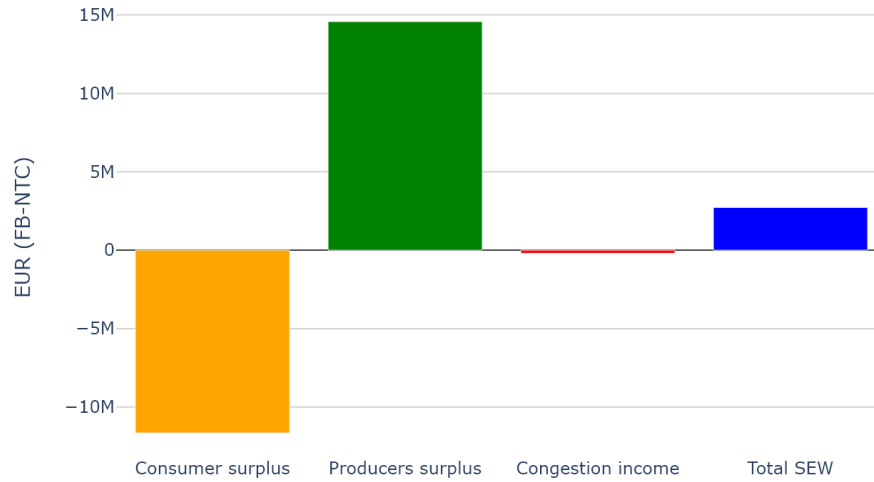


Total socio economic welfaregain FB-NTC per BZ in SE





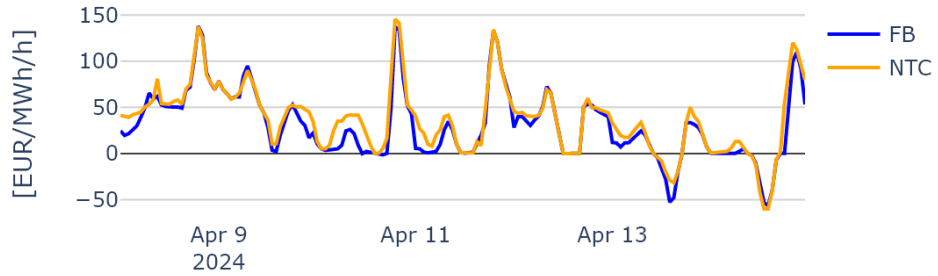
SE, socio-economic welfare per stakeholder and country



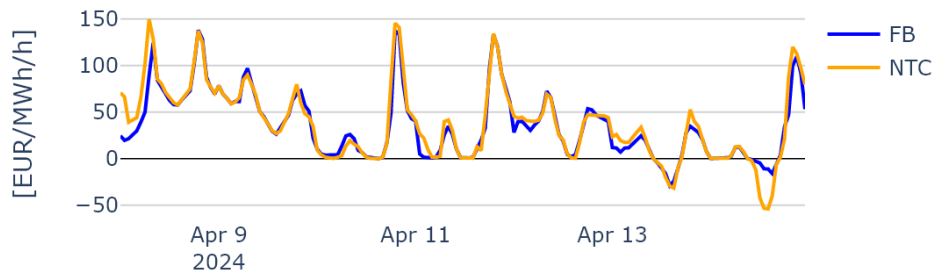


## Prices

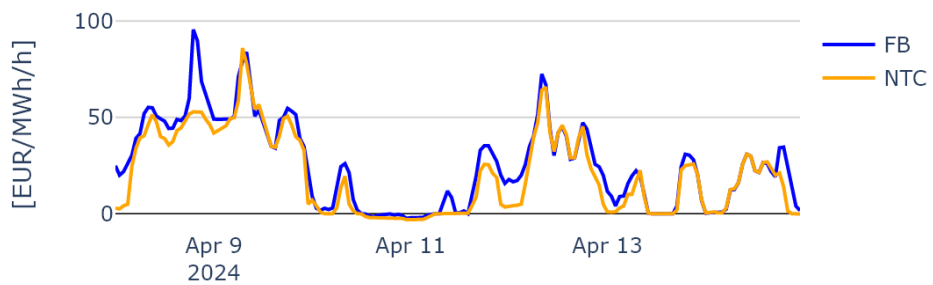
### DK1 price



### DK2 price

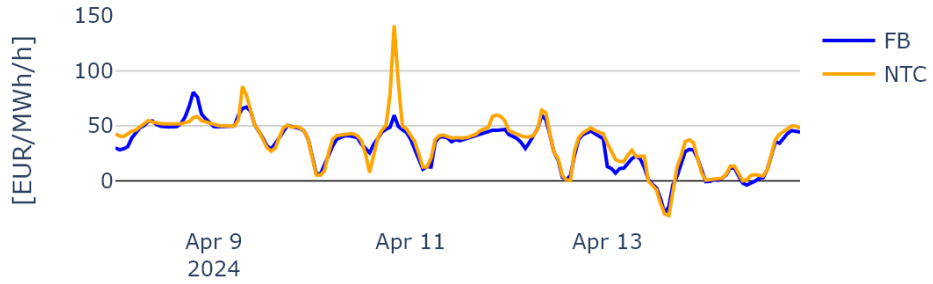


### FI price

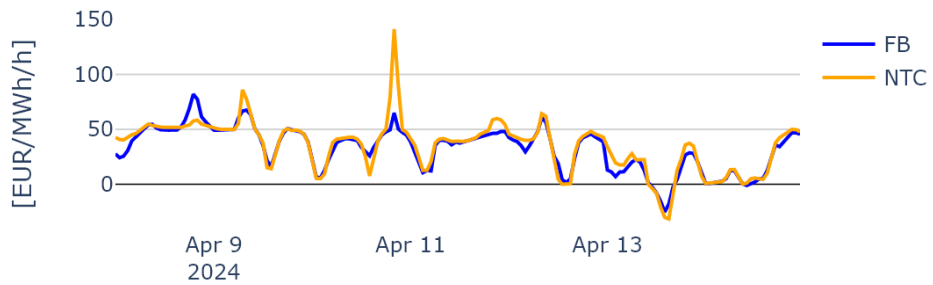




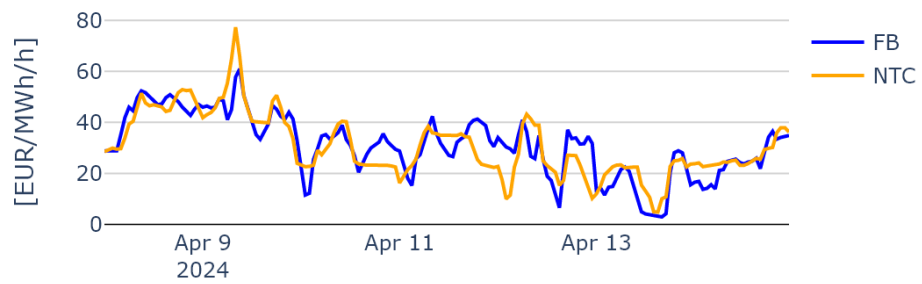
### NO1 price



### NO2 price

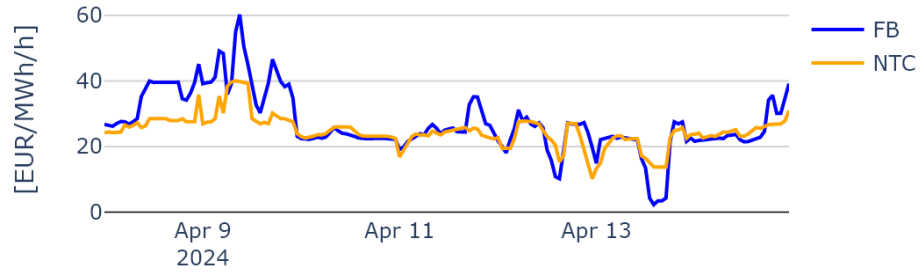


### NO3 price

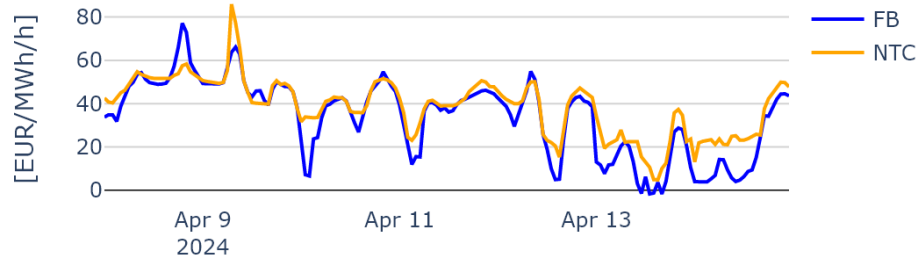




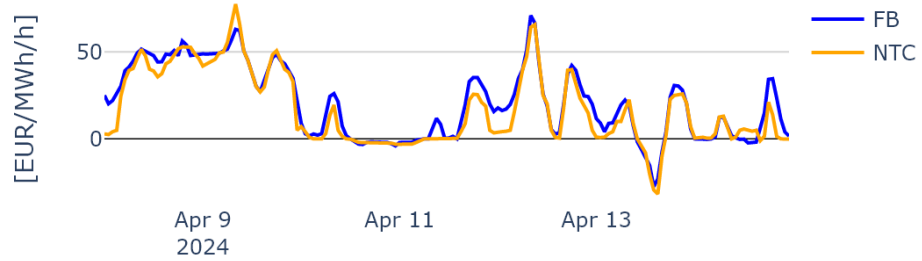
### NO4 price



### NO5 price

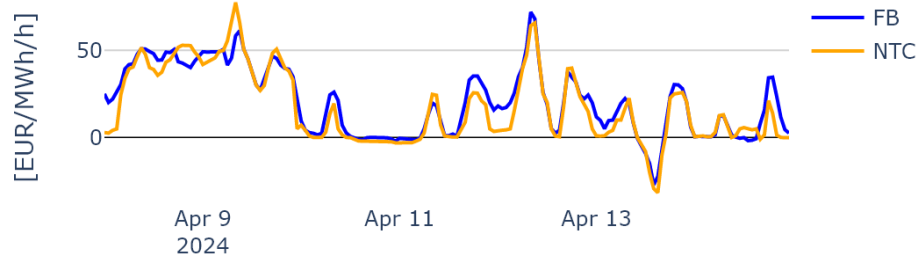


### SE1 price

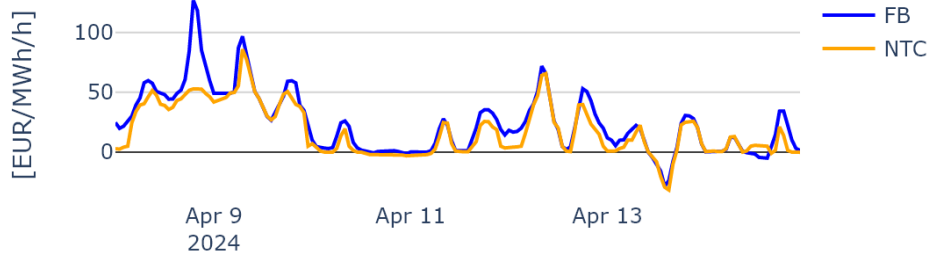




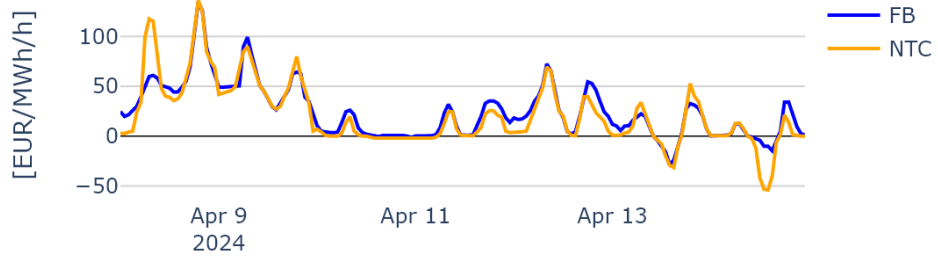
### SE2 price



### SE3 price



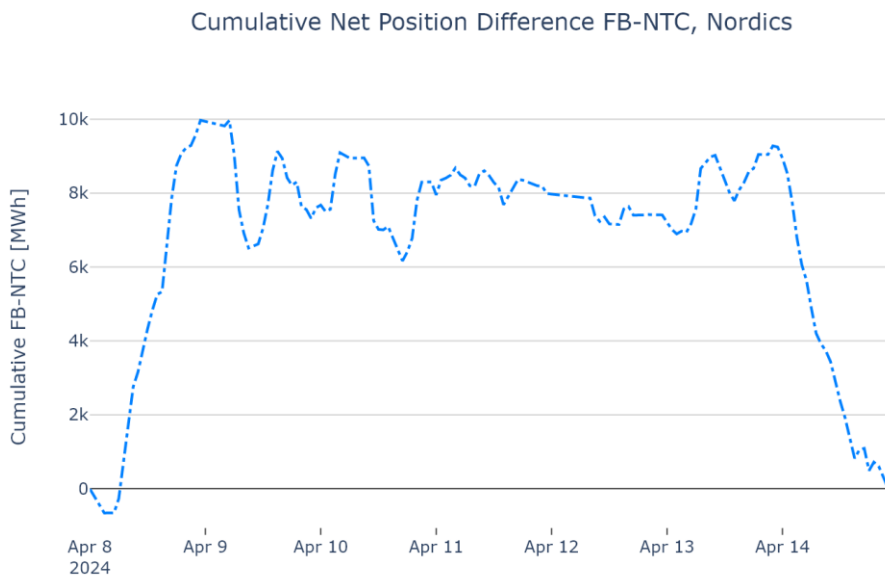
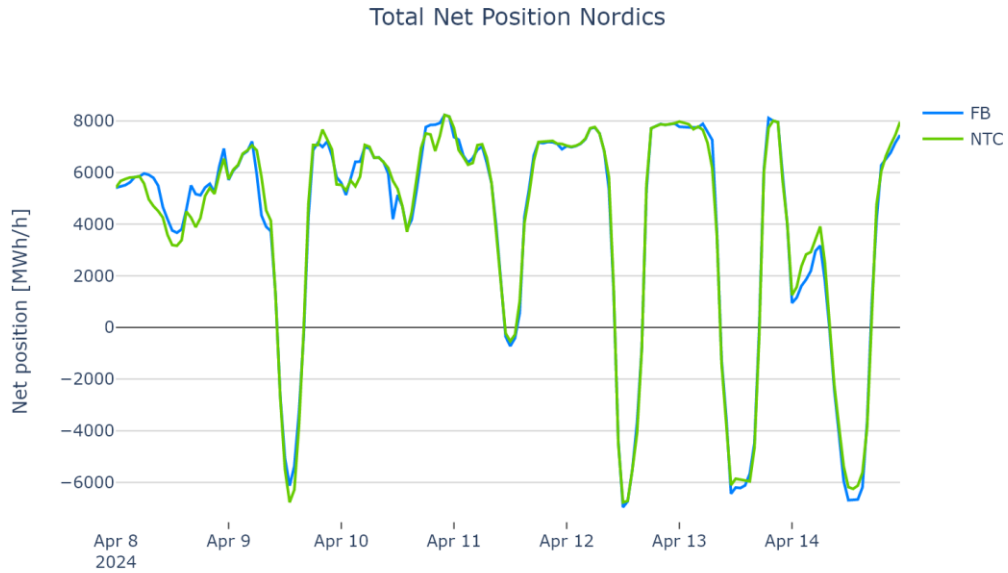
### SE4 price





## Net positions

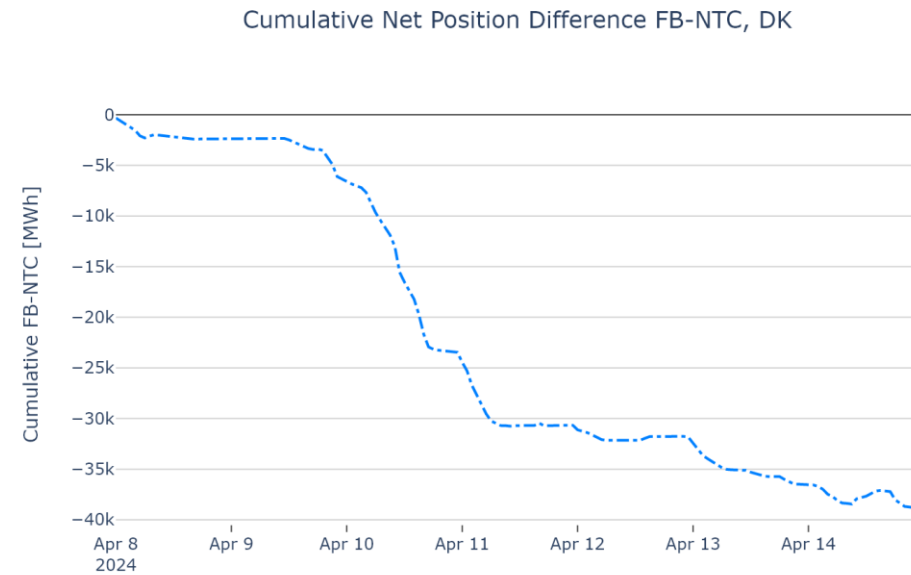
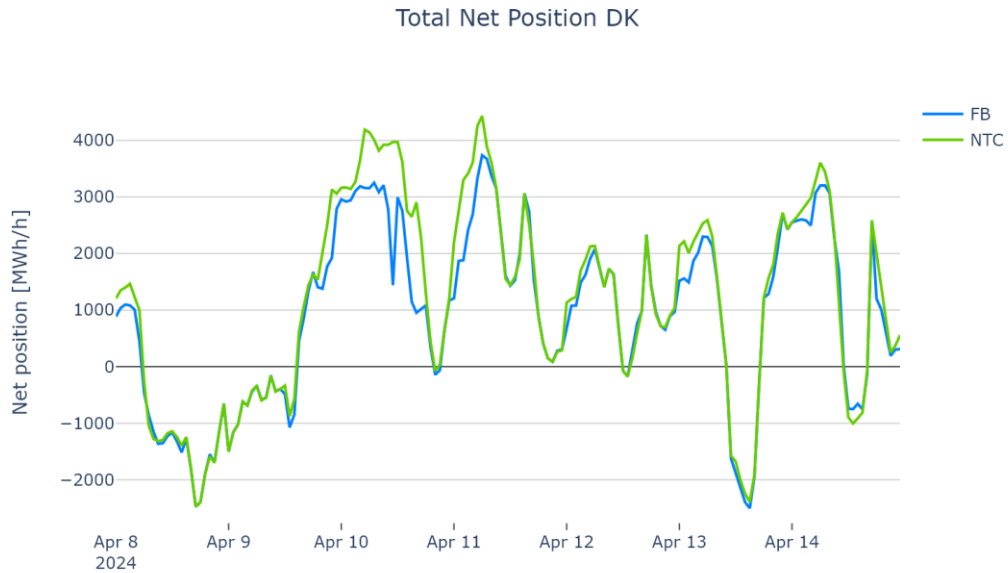
### Nordics

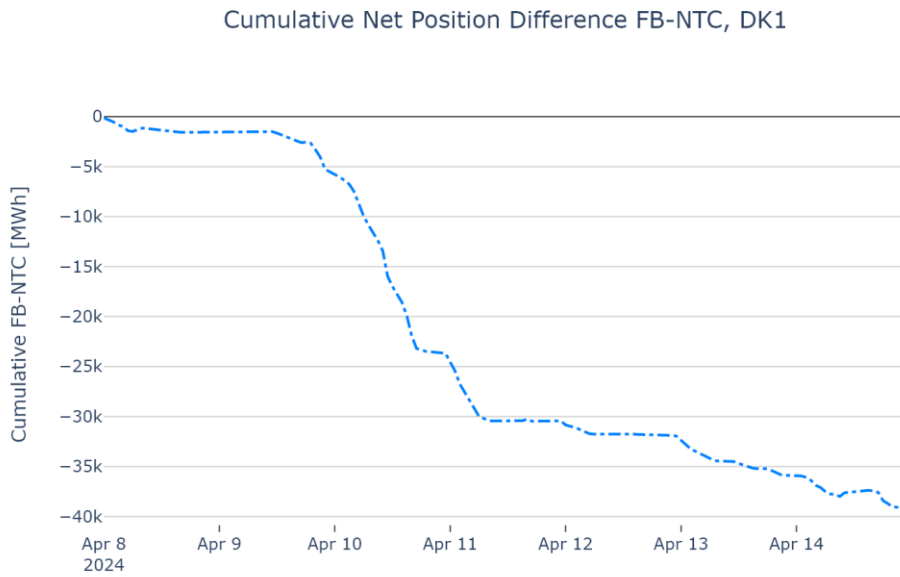
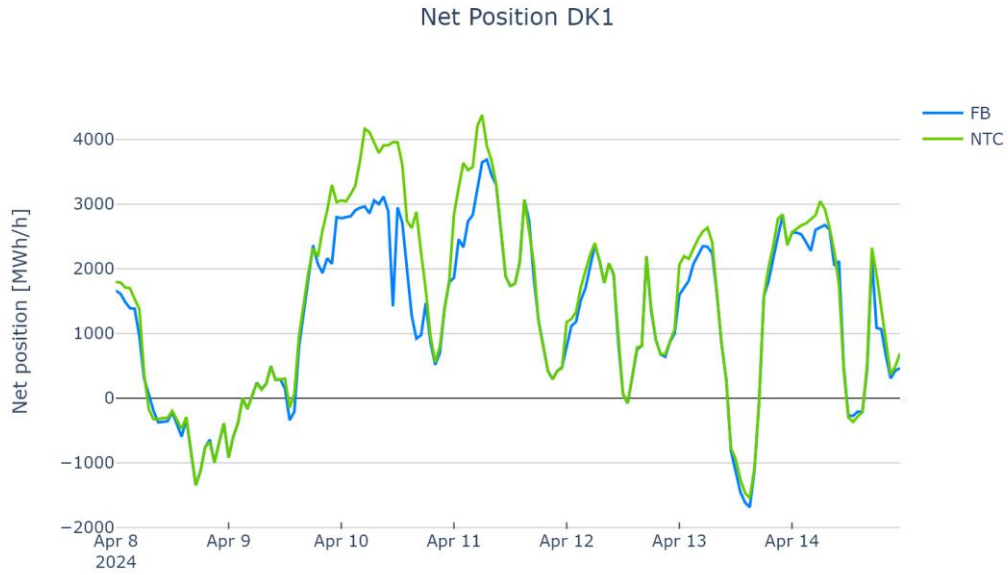


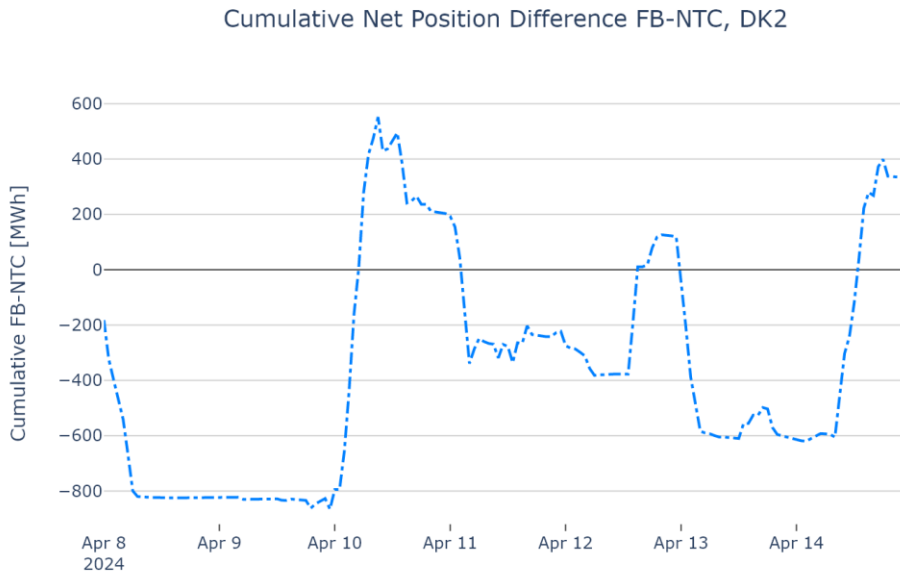
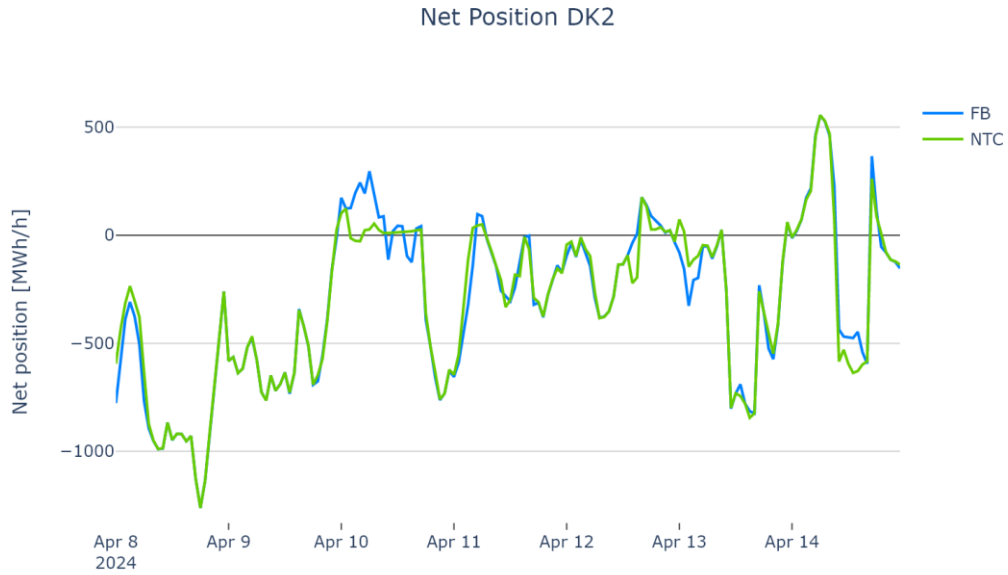




## Denmark

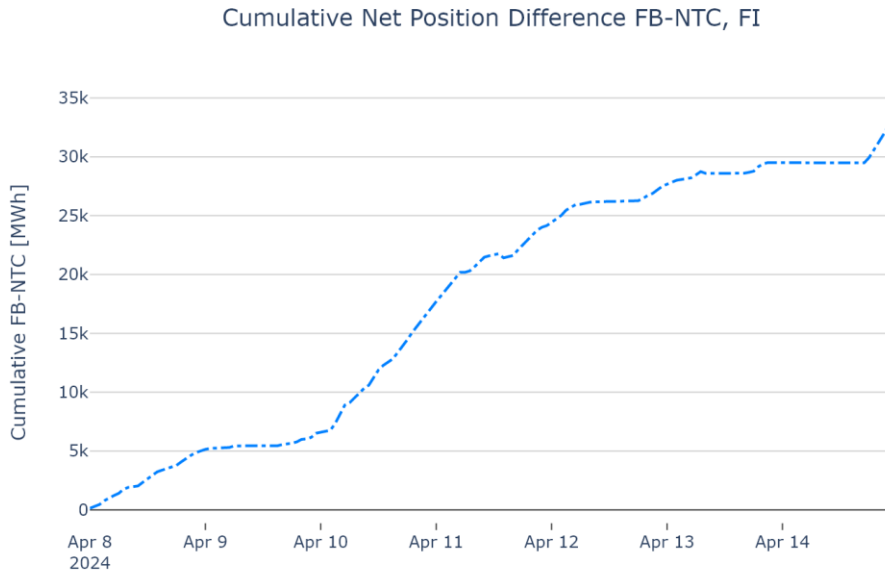
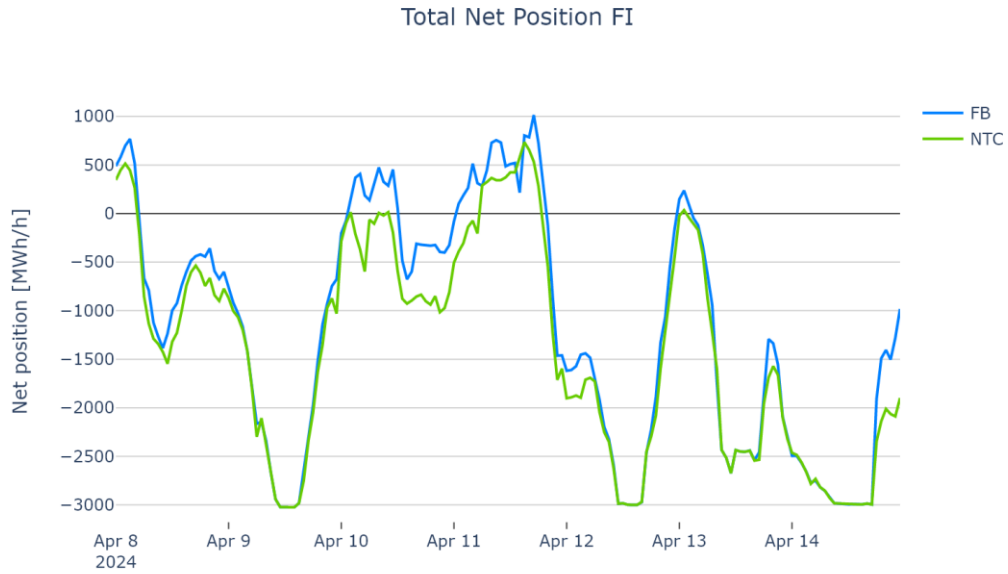






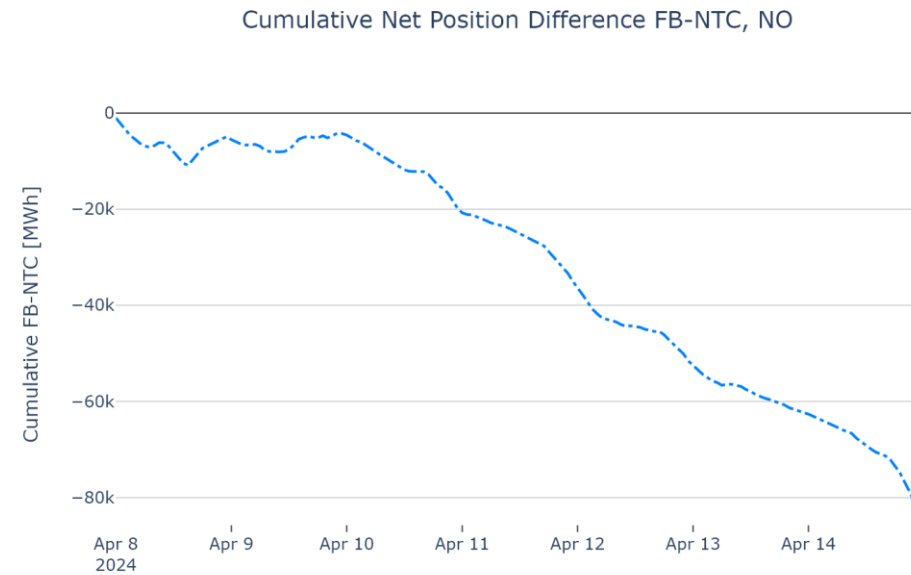
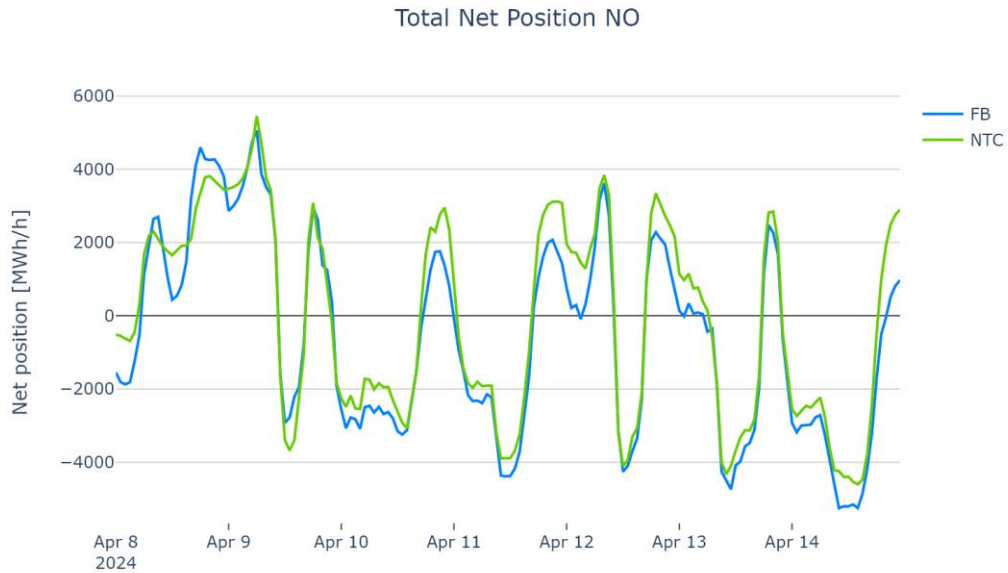


## Finland



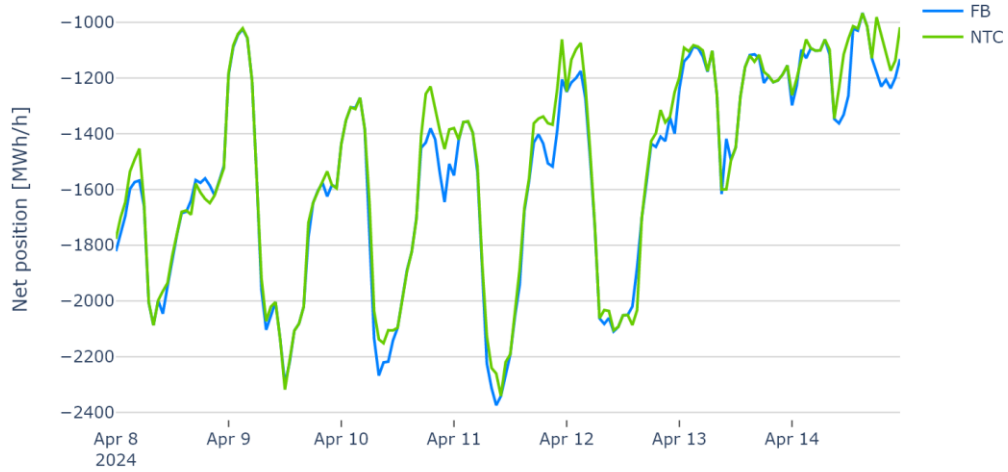


## Norway

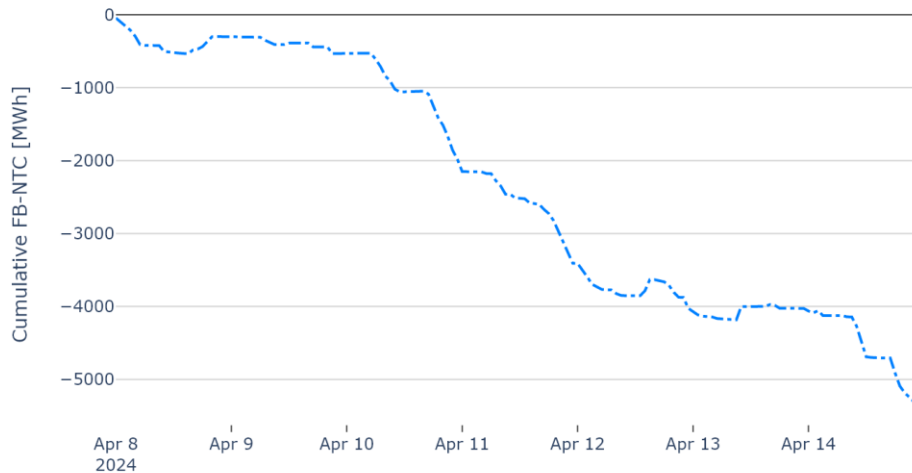




Net Position NO1

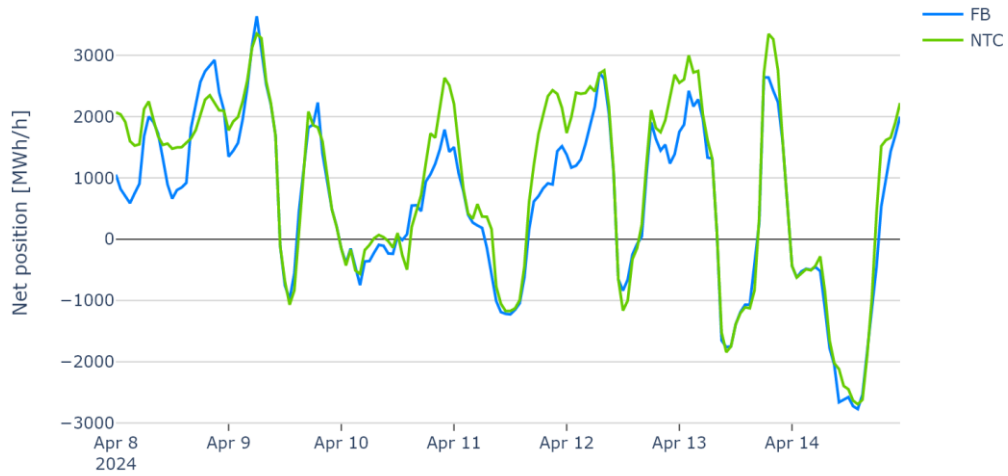


Cumulative Net Position Difference FB-NTC, NO1

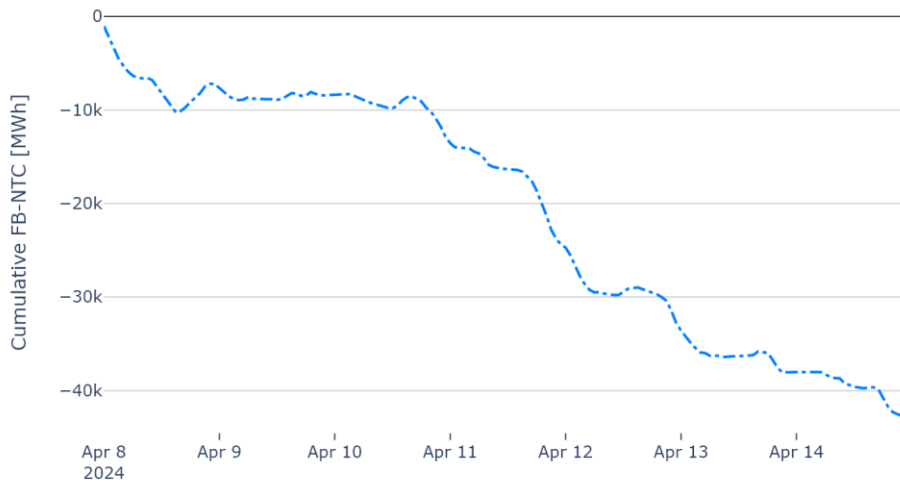


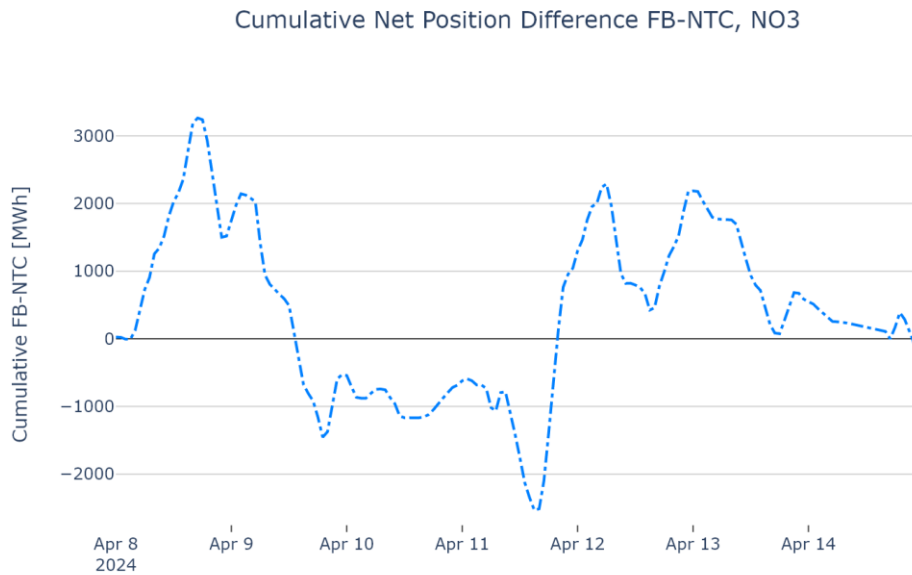
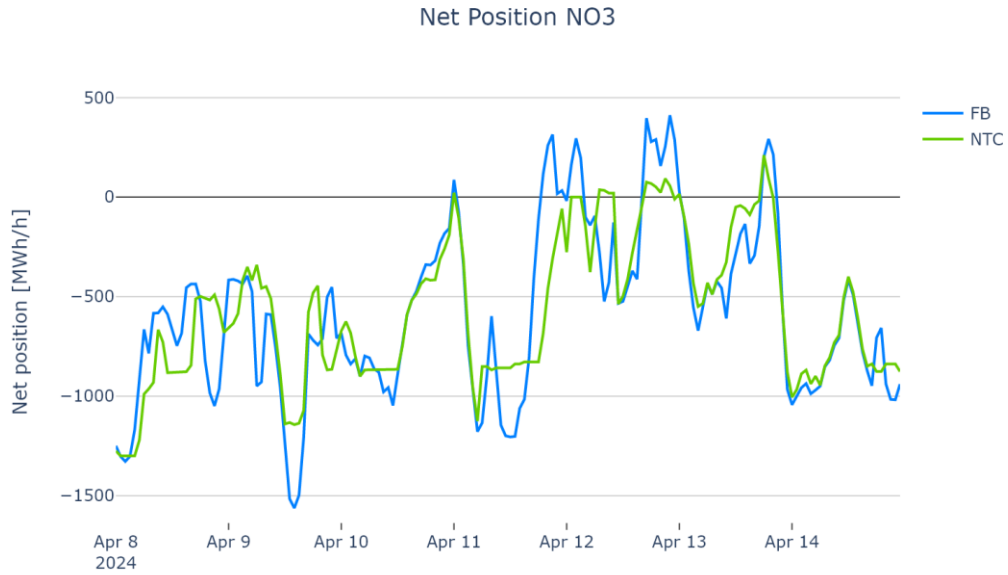


Net Position NO2



Cumulative Net Position Difference FB-NTC, NO2

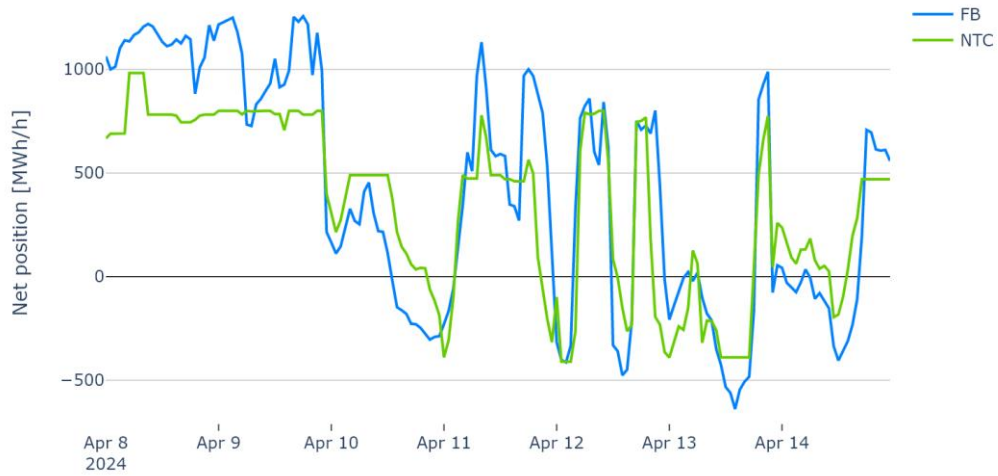




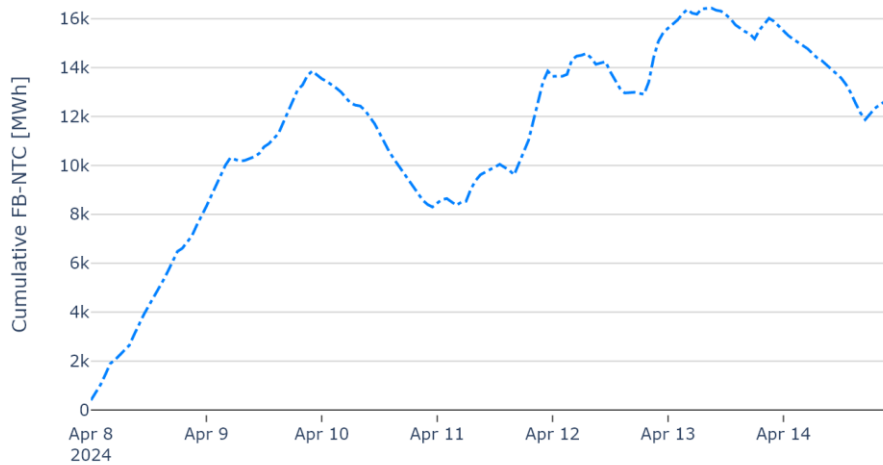




Net Position NO4

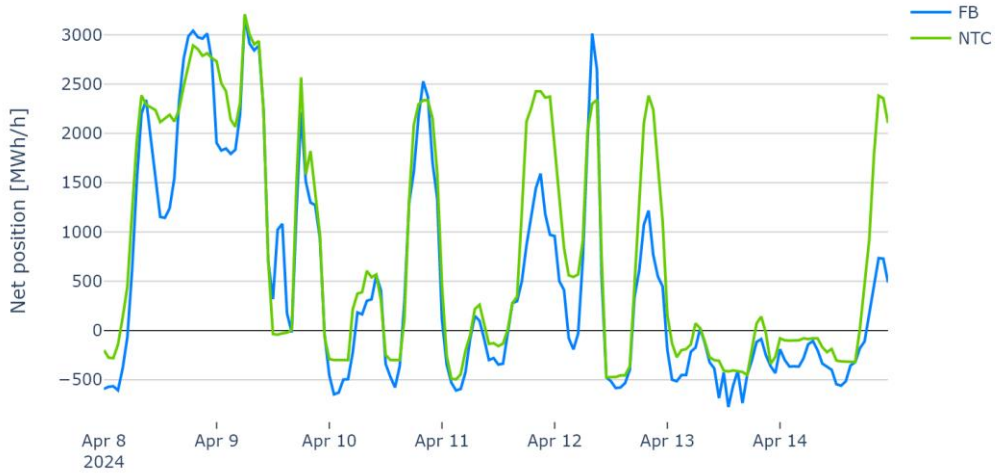


Cumulative Net Position Difference FB-NTC, NO4

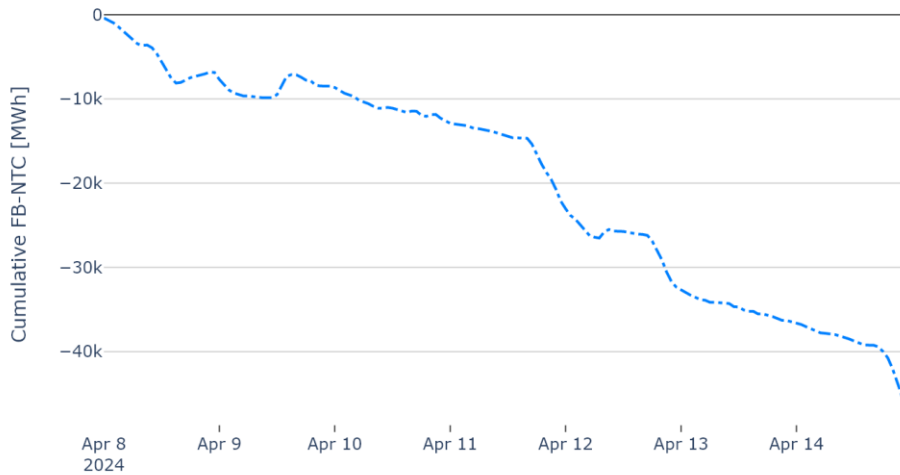




Net Position NO5



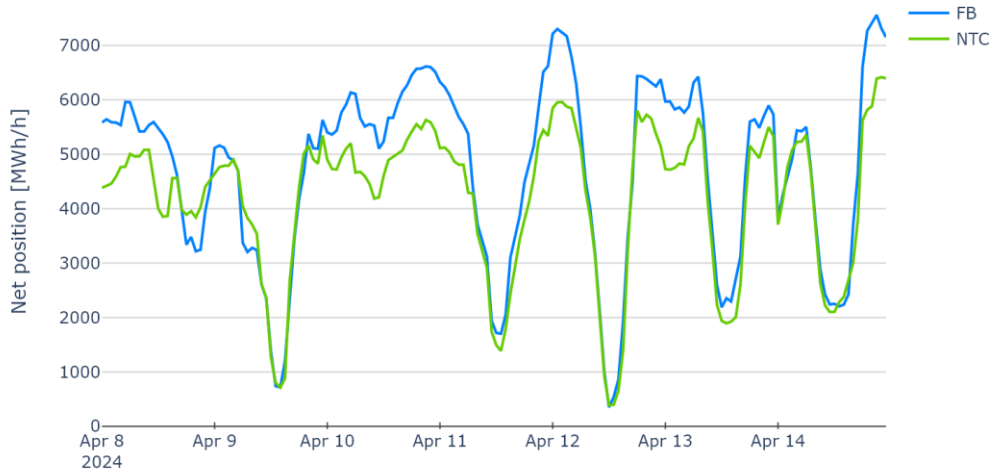
Cumulative Net Position Difference FB-NTC, NO5



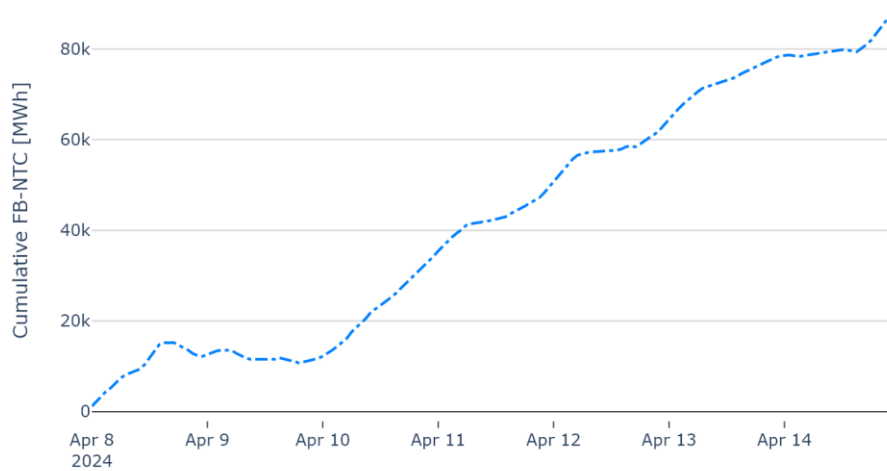


## Sweden

Total Net Position SE

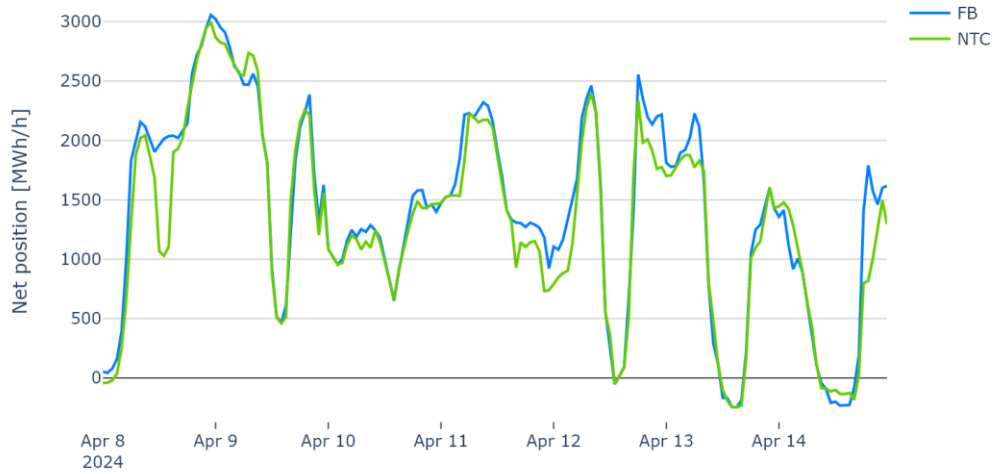


Cumulative Net Position Difference FB-NTC, SE

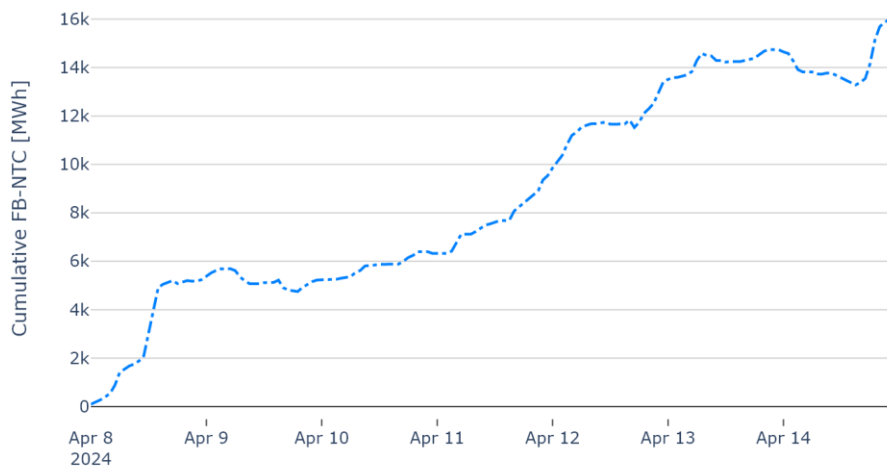




Net Position SE1

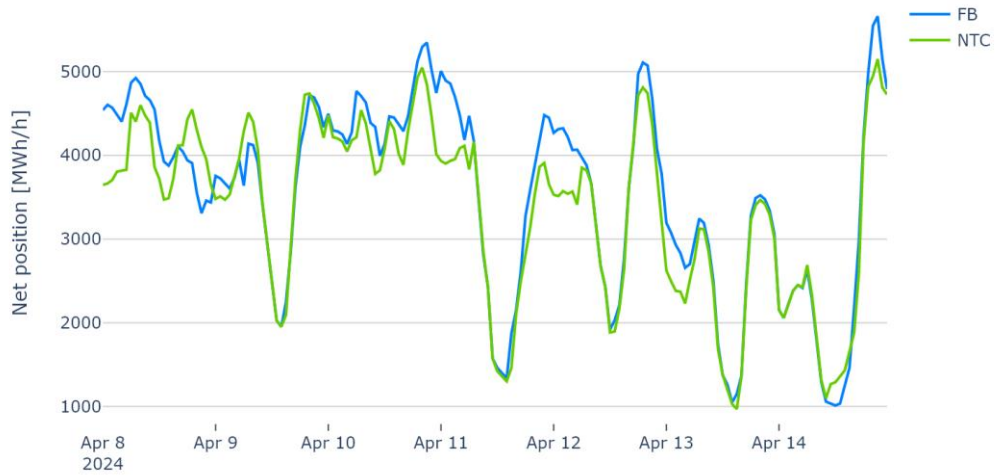


Cumulative Net Position Difference FB-NTC, SE1

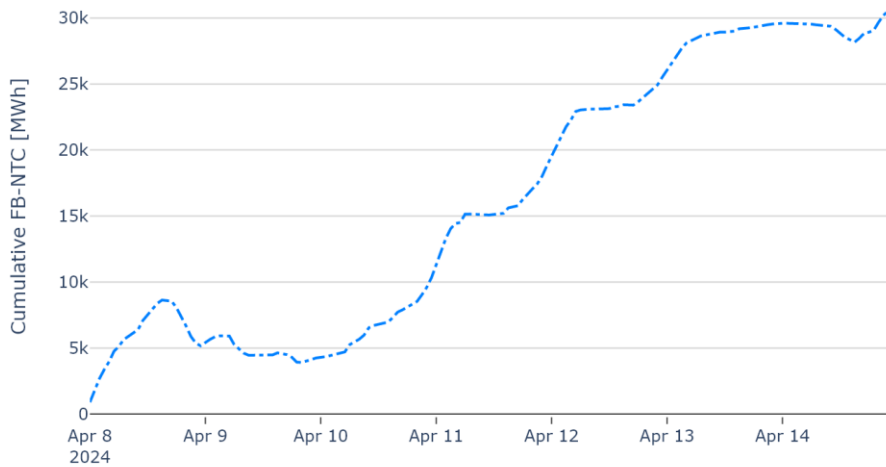




Net Position SE2

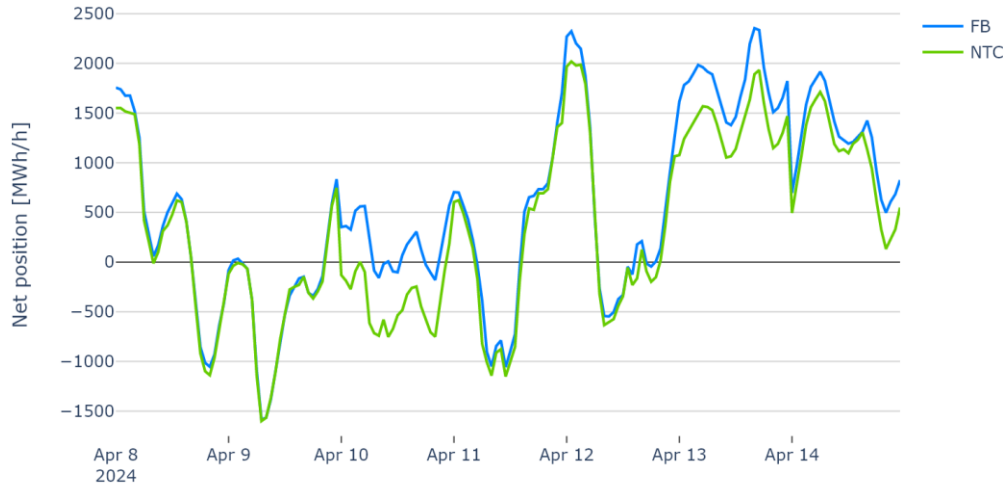


Cumulative Net Position Difference FB-NTC, SE2

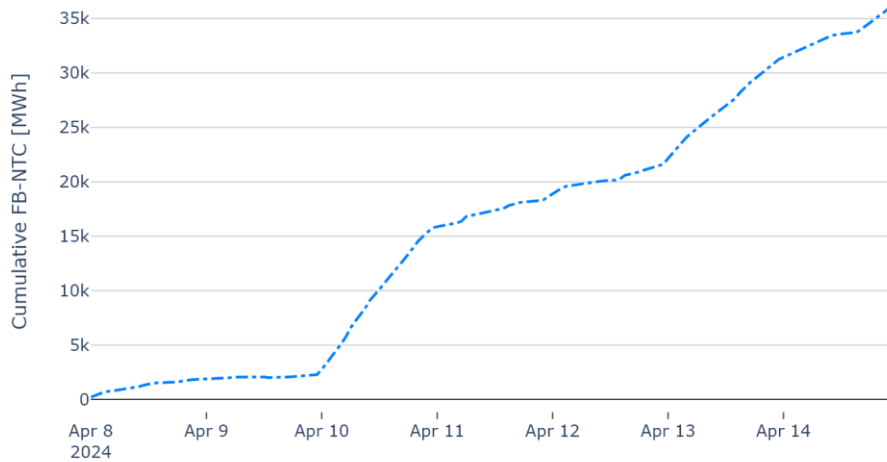


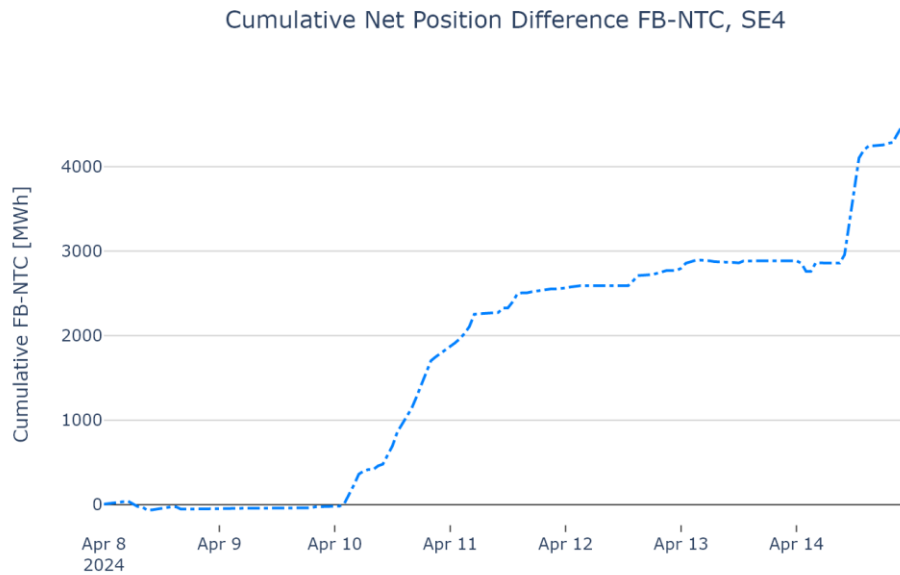
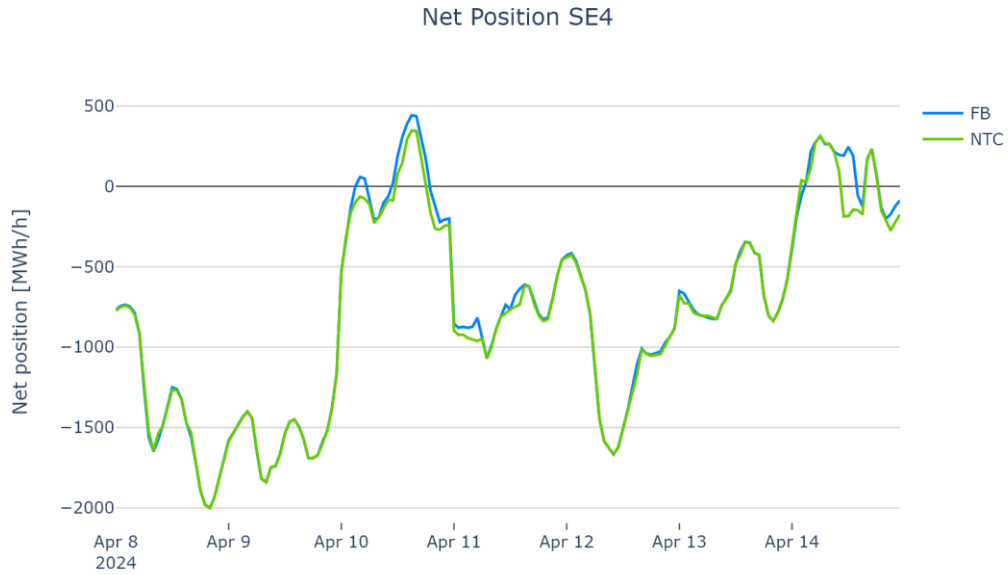


Net Position SE3



Cumulative Net Position Difference FB-NTC, SE3



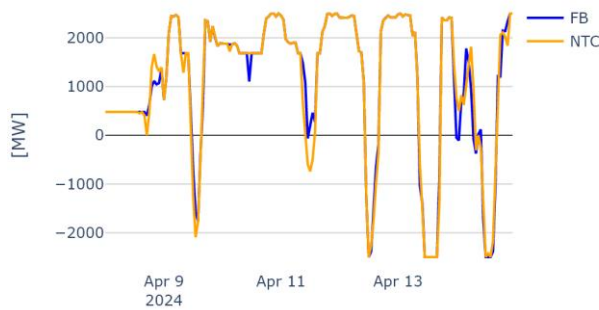




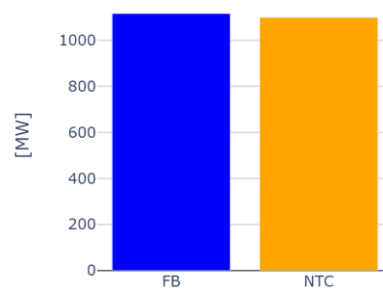
## Border flow

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.

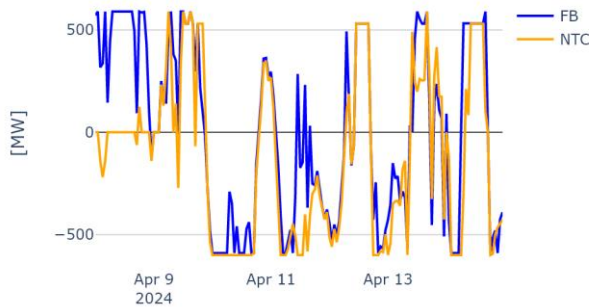
DK1 > DE/LU Physical Flow



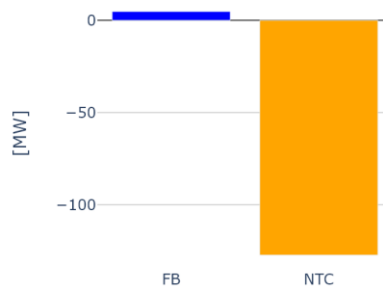
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow



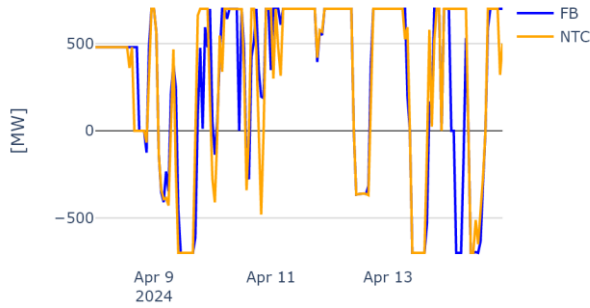
DK1 > DK2 Average flow on border



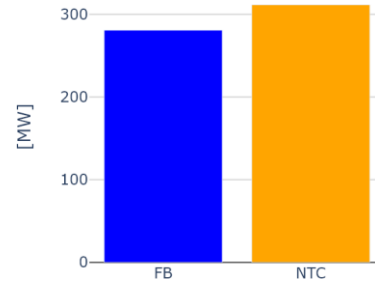




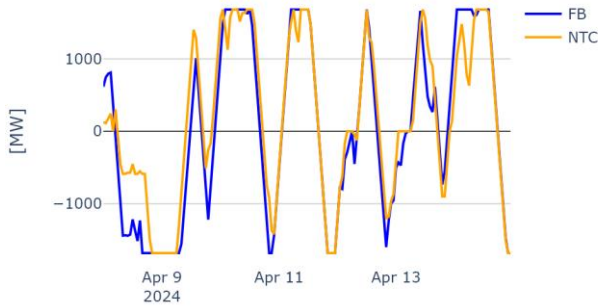
DK1 > NL Physical Flow



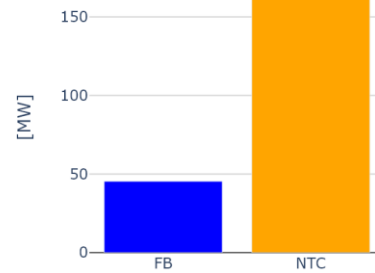
DK1 > NL Average flow on border



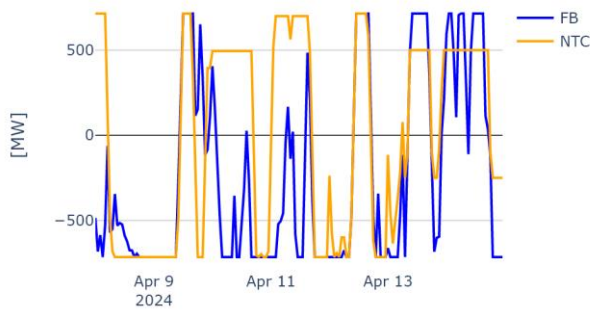
DK1 > NO2 Physical Flow



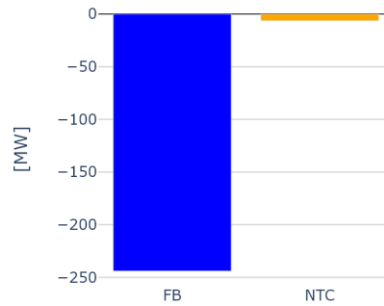
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

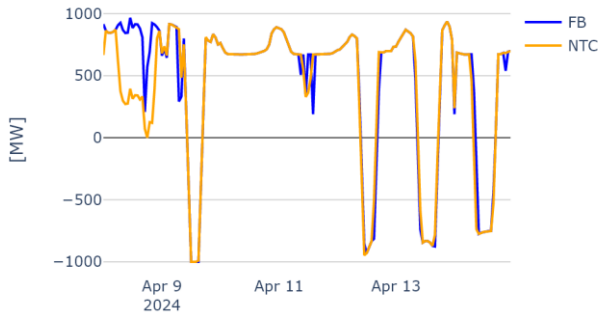


DK1 > SE3 Average flow on border





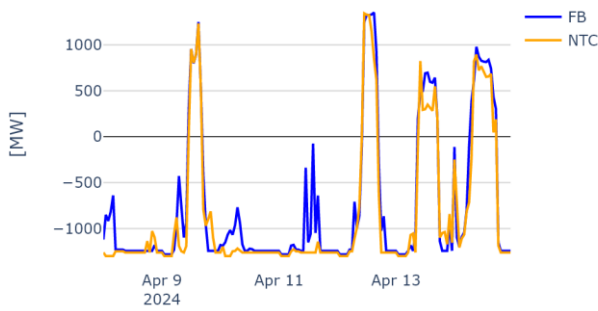
DK2 > DE/LU Physical Flow



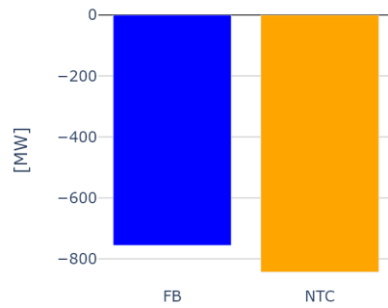
DK2 > DE/LU Average flow on border



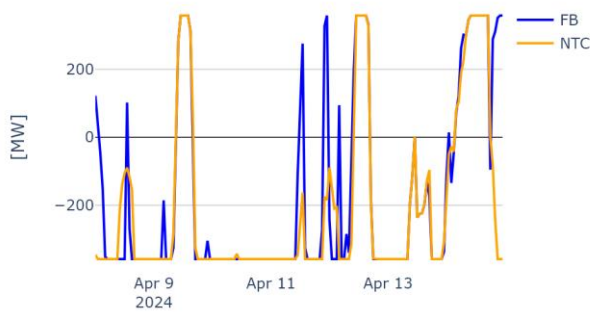
DK2 > SE4 Physical Flow



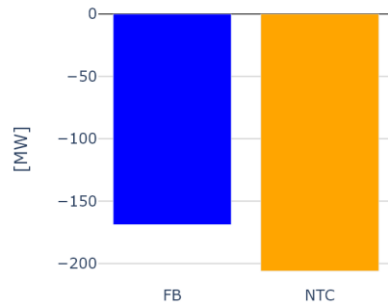
DK2 > SE4 Average flow on border



EE > FI Physical Flow

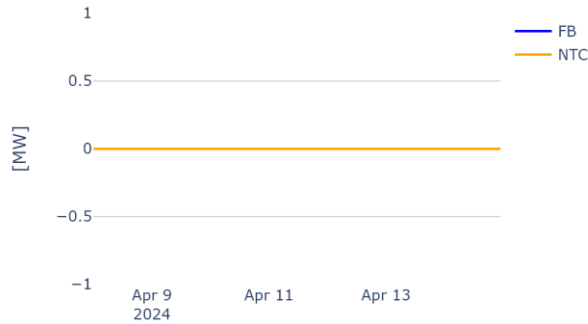


EE > FI Average flow on border

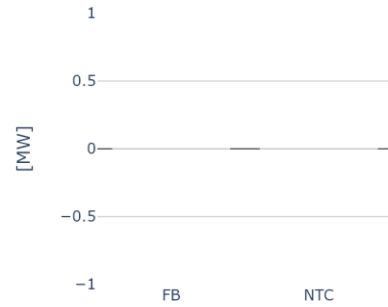




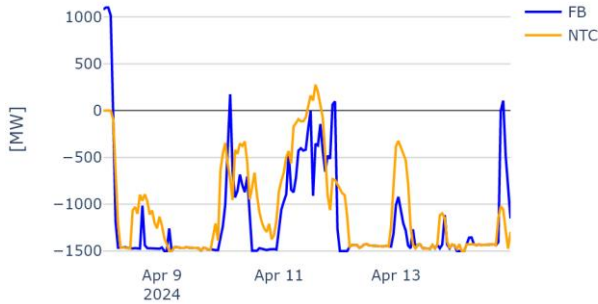
FI > NO4 Physical Flow



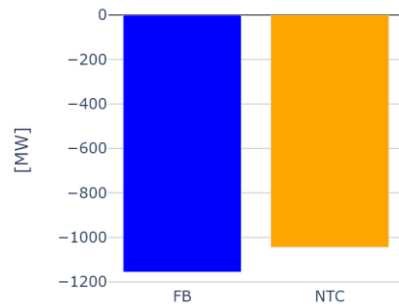
FI > NO4 Average flow on border



FI > SE1 Physical Flow



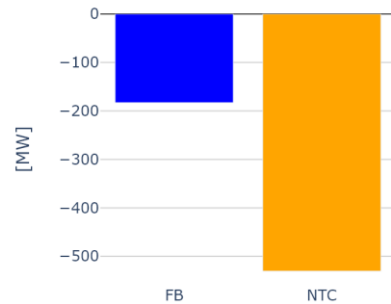
FI > SE1 Average flow on border



FI > SE3 Physical Flow

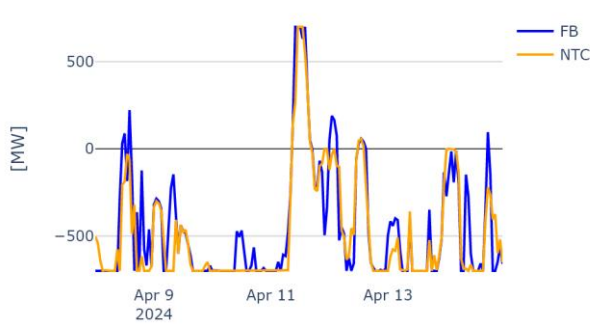


FI > SE3 Average flow on border

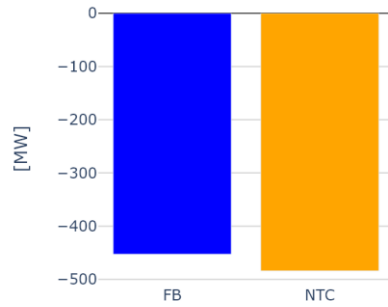




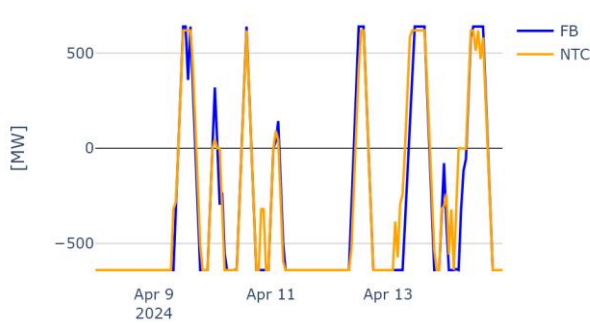
LT > SE4 Physical Flow



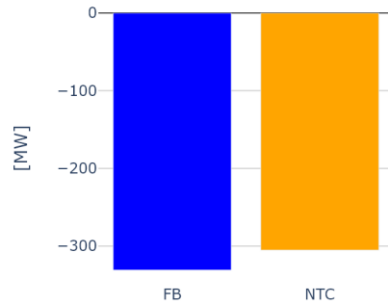
LT > SE4 Average flow on border



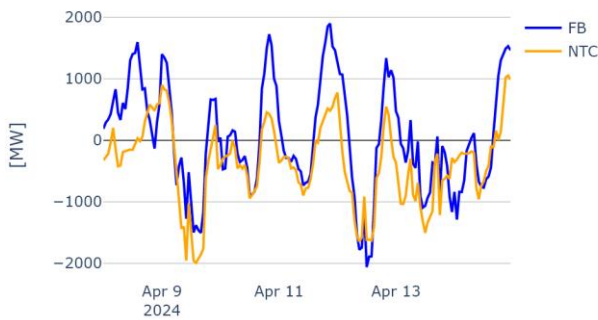
NL > NO2 Physical Flow



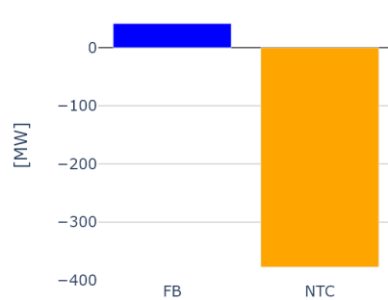
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

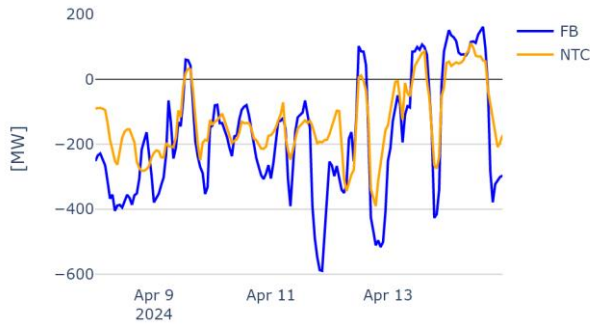


NO1 > NO2 Average flow on border

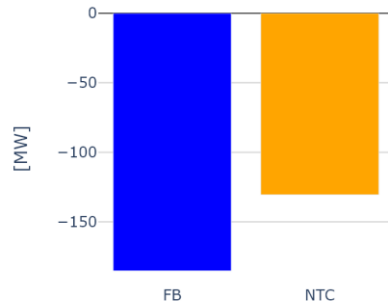




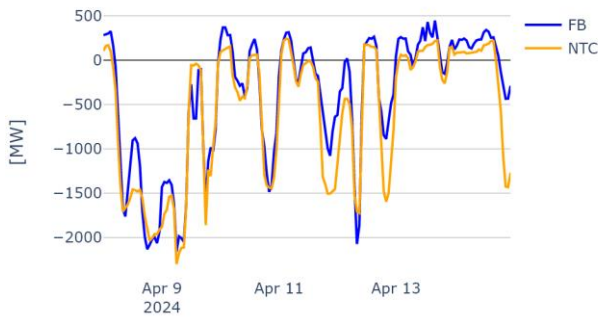
NO1 > NO3 Physical Flow



NO1 > NO3 Average flow on border



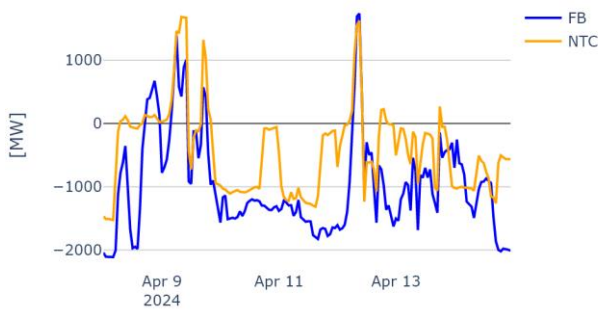
NO1 > NO5 Physical Flow



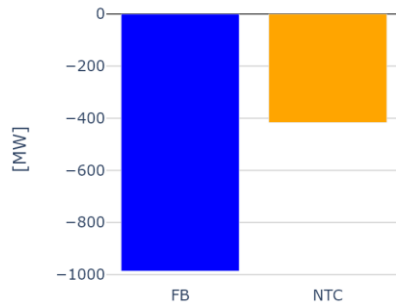
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow



NO1 > SE3 Average flow on border





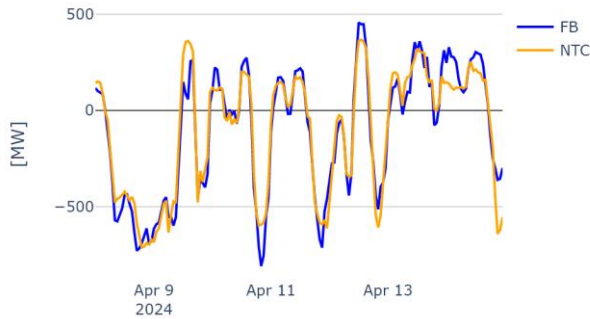
NO2 > DE/LU Physical Flow



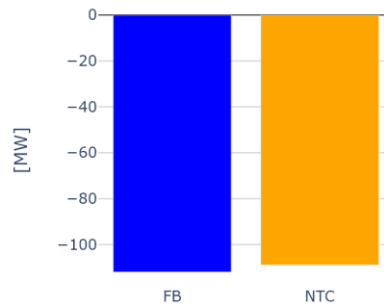
NO2 > DE/LU Average flow on border



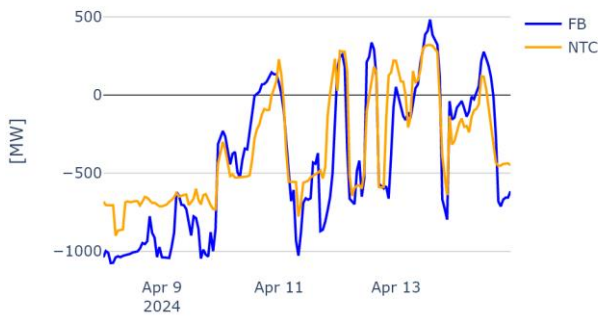
NO2 > NO5 Physical Flow



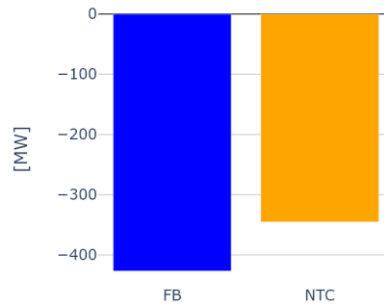
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

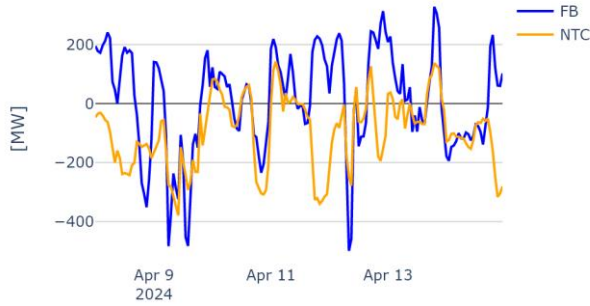


NO3 > NO4 Average flow on border

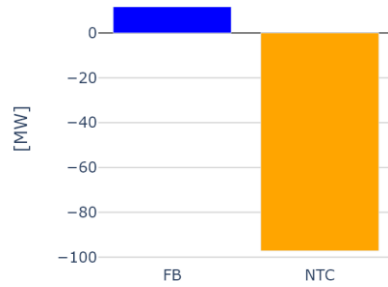




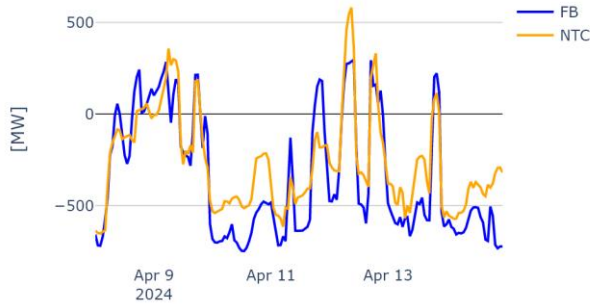
NO3 > NO5 Physical Flow



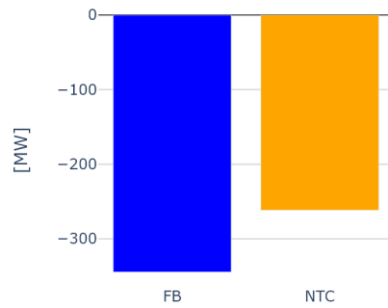
NO3 > NO5 Average flow on border



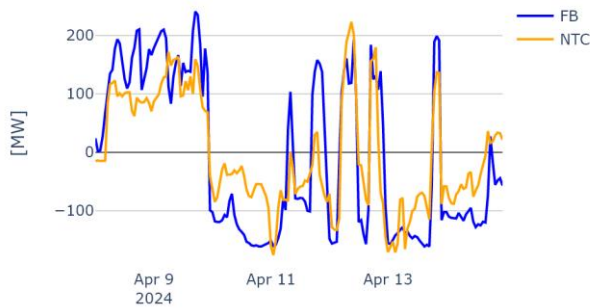
NO3 > SE2 Physical Flow



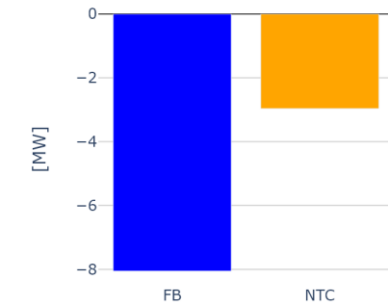
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

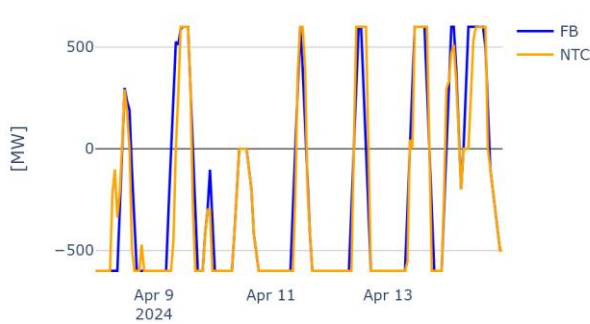


NO4 > SE2 Average flow on border

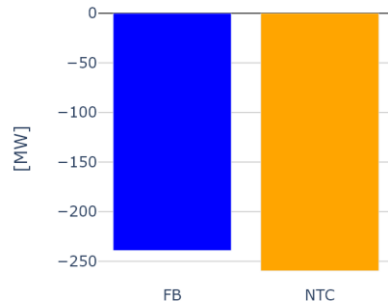




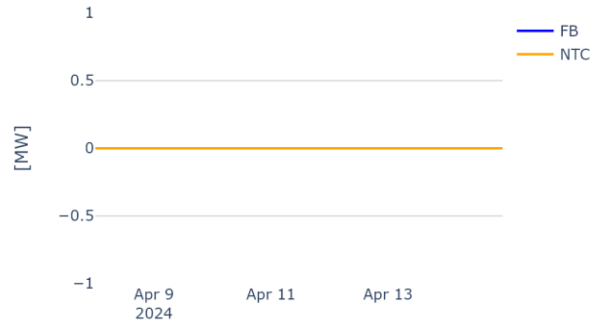
PL > SE4 Physical Flow



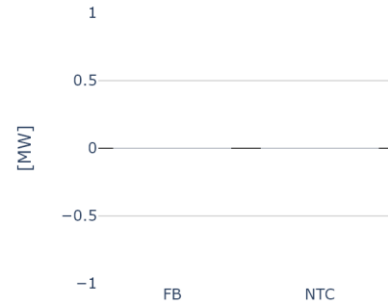
PL > SE4 Average flow on border



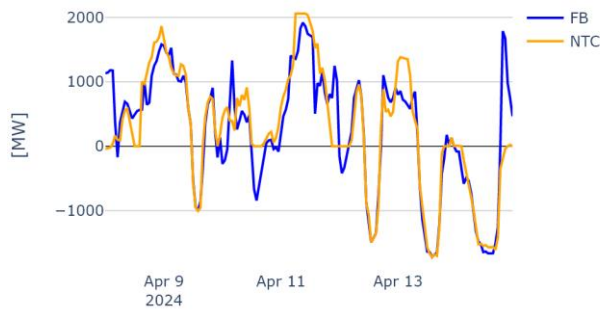
SE1 > NO4 Physical Flow



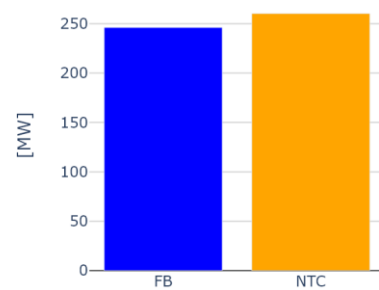
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow



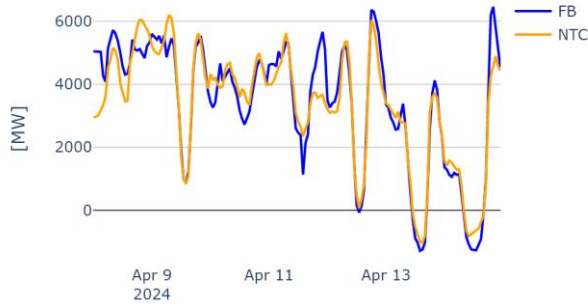
SE1 > SE2 Average flow on border



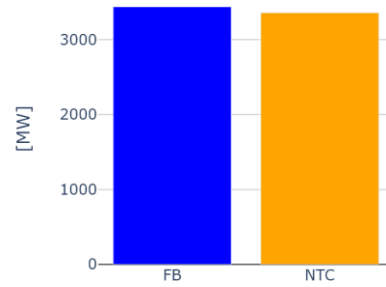




SE2 > SE3 Physical Flow



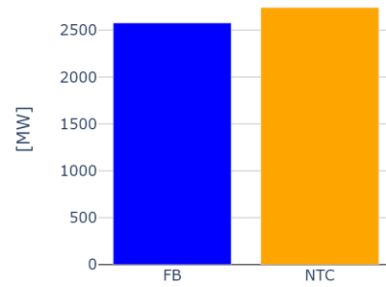
SE2 > SE3 Average flow on border



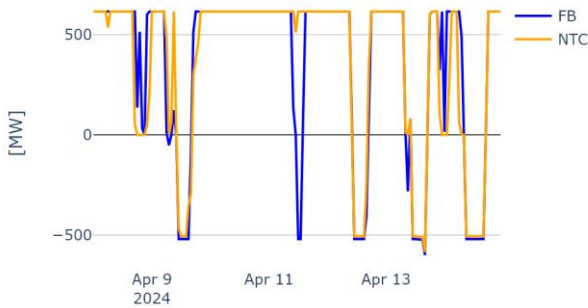
SE3 > SE4 Physical Flow



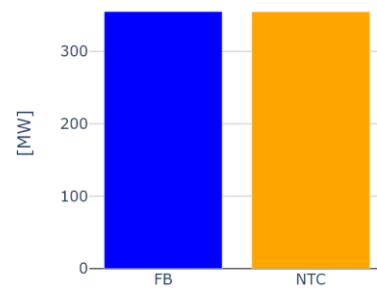
SE3 > SE4 Average flow on border



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	6533729	21
DK1 > DK2	300845	4
DK1 > NL	1946274	18
DK1 > NO2	2922672	14
DK1 > SE3	1456227	12
DK2 > DE/LU	2641373	21
DK2 > SE4	2311074	11
EE > FI	598989	10
FI > NO4	0	0
FI > SE1	1127236	5
FI > SE3	739141	4
LT > SE4	697726	6
NL > NO2	2335544	24
NO1 > NO2	43875	0
NO1 > NO3	242688	7
NO1 > NO5	99190	1
NO1 > SE3	2698131	11
NO2 > DE/LU	4608891	28
NO2 > NO5	91600	2
NO3 > NO4	451772	2
NO3 > NO5	-39598	0
NO3 > SE2	1063598	11
NO4 > SE2	237258	11
PL > SE4	2997319	32
SE1 > NO4	0	0
SE1 > SE2	-56067	0
SE2 > SE3	3220767	4
SE3 > SE4	508794	1
SE4 > DE/LU	3127062	32



## 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	2	-1066	-4
DK1 > DK2	8	-51609	-9
DK1 > NL	3	-16193	-6
DK1 > NO2	11	-104713	-12
DK1 > SE3	19	-22918	-3
DK2 > DE/LU	4	-800	-1
DK2 > SE4	7	-7120	-1
EE > FI	0	0	0
FI > NO4	0	0	0
FI > SE1	4	-167	0
FI > SE3	14	-57114	-3
LT > SE4	19	-4392	0
NL > NO2	4	-11334	-6
NO1 > NO2	38	-36585	-1
NO1 > NO3	20	-13861	-3
NO1 > NO5	29	-38354	-2
NO1 > SE3	14	-58404	-4
NO2 > DE/LU	2	-9525	-5
NO2 > NO5	19	-4458	-1
NO3 > NO4	31	-41335	-5
NO3 > NO5	42	-115507	-8
NO3 > SE2	11	-9288	-4
NO4 > SE2	11	-3990	-3
PL > SE4	17	-412199	-34
SE1 > NO4	0	0	0
SE1 > SE2	43	-141645	-2
SE2 > SE3	18	-71316	-1
SE3 > SE4	18	-16222	0
SE4 > DE/LU	1	-66	-4