



Nordic Capacity Calculation Methodology Project (Nordic CCM)

# Nordic CCM

External Parallel Run Market Report  
Appendix for Week 16 of 2024



## Appendix

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### Domain validation

<b>Energy Delivery Day:</b>	<b>Mon. 15.04</b>	<b>Tue. 16.04</b>	<b>Wed. 17.04</b>	<b>Thu. 18.04</b>	<b>Fri. 19.04</b>	<b>Sat. 20.04</b>	<b>Sun. 21.04</b>
<b>Invalid/missing IGMs</b>	2	0	0	0	0	0	0
<b>Substituted IGMs</b>	2	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%

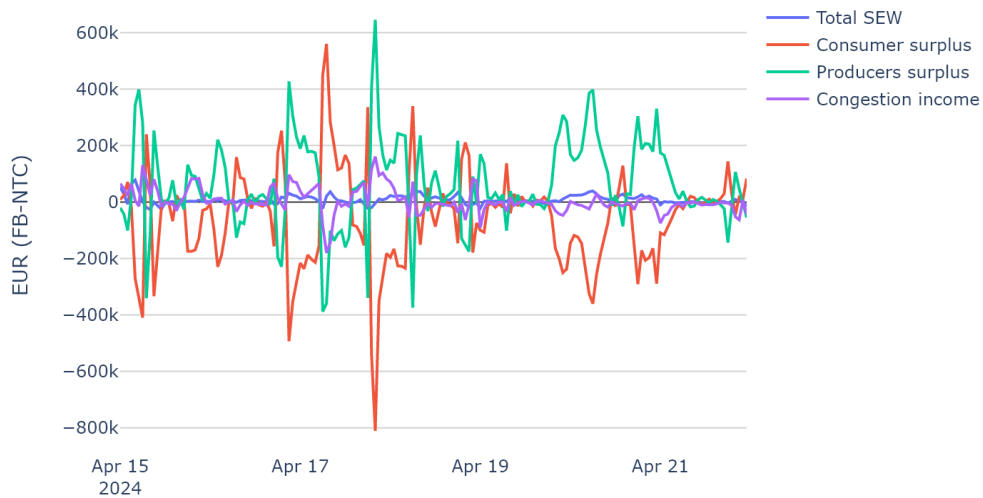


## Socio Economic Welfare

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.

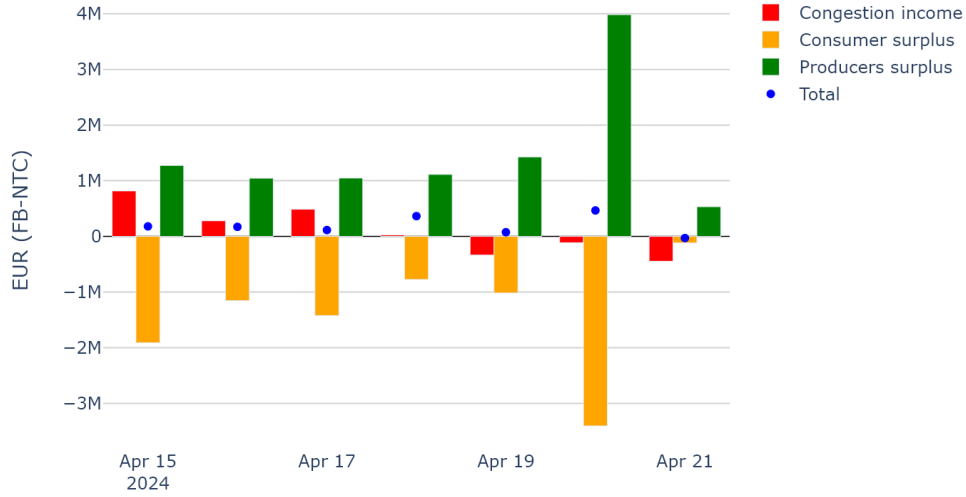
### Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

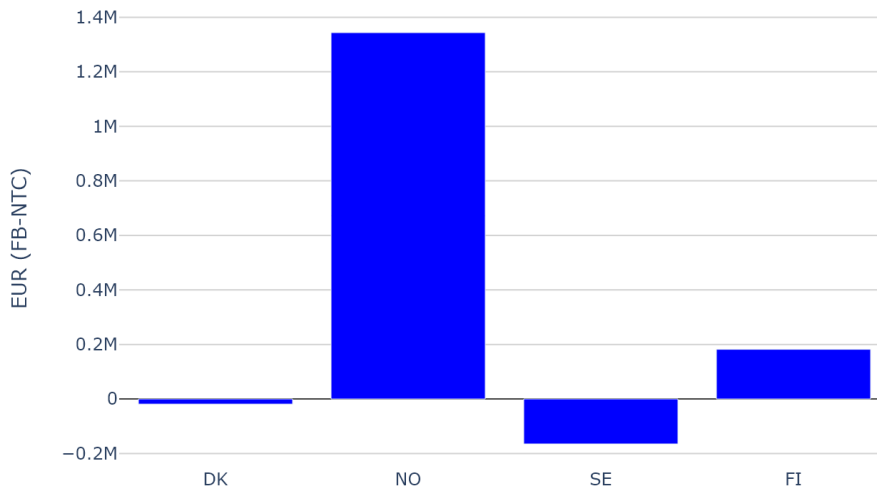




Nordics socio-economic welfare per stakeholder and day

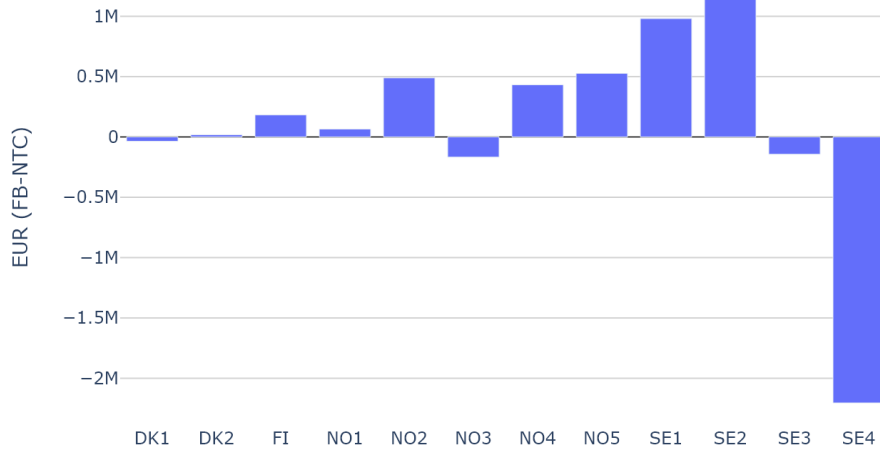


Total Nordic socio-economic welfare per country





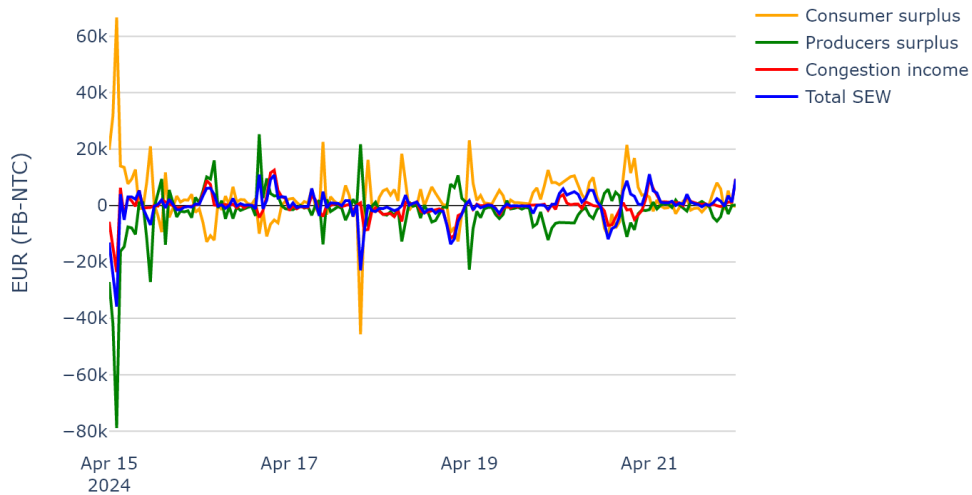
Socio economic welfaregain FB-NTC per BZ - Total\_sew



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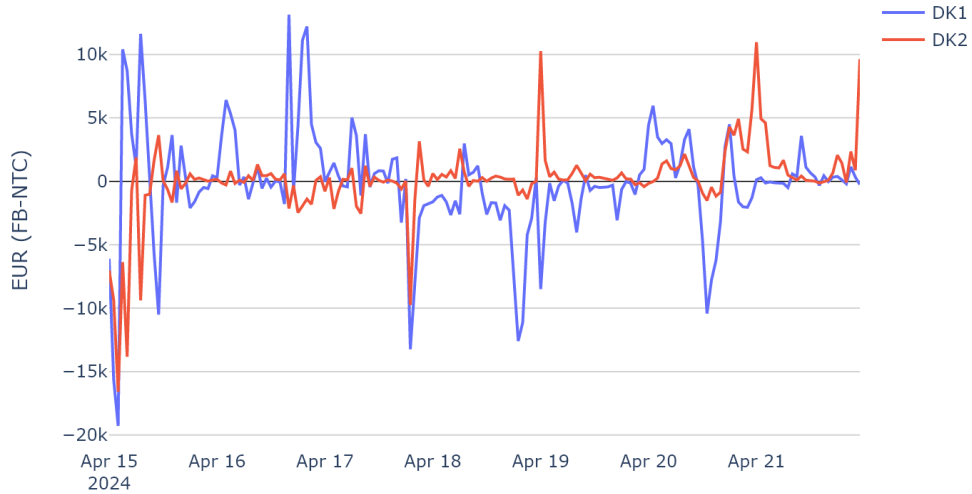
## Denmark

DK, socio-economic welfare per stakeholder and country

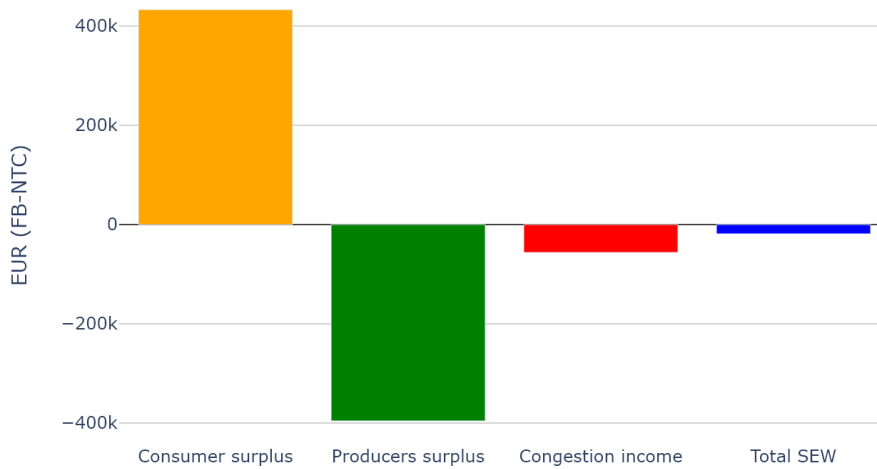




Total socio economic welfaregain FB-NTC per BZ in DK



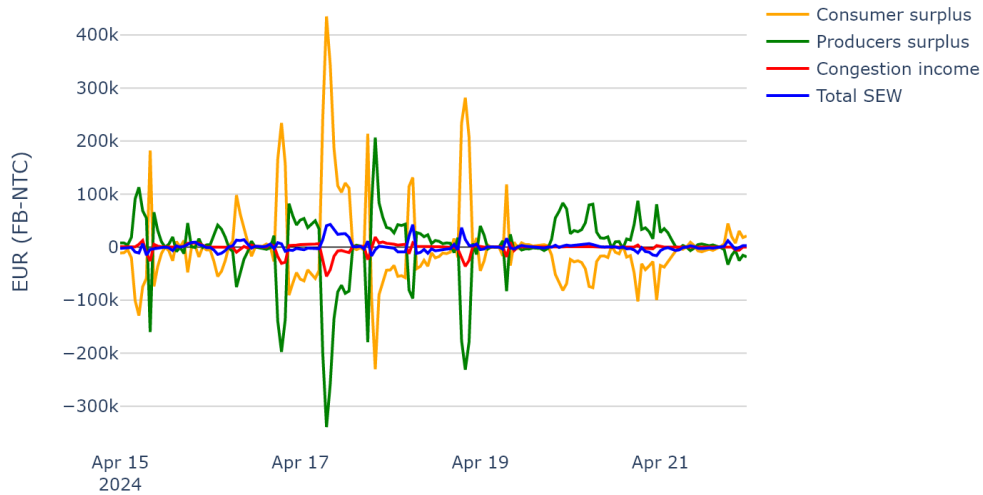
DK, socio-economic welfare per stakeholder and country



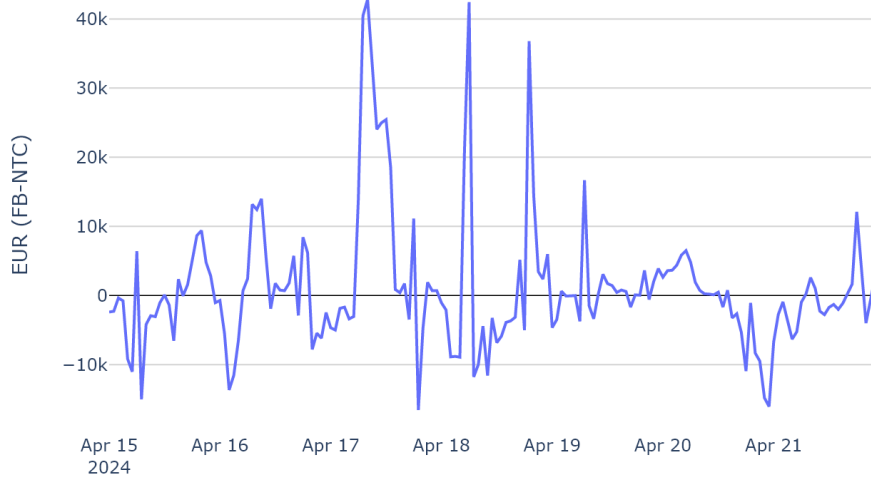


## Finland

FI, socio-economic welfare per stakeholder and country

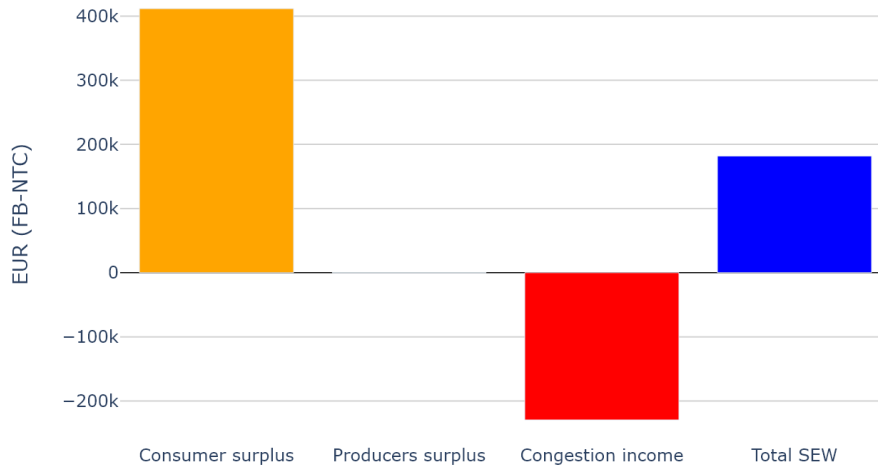


Total socio economic welfaregain FB-NTC per BZ in FI





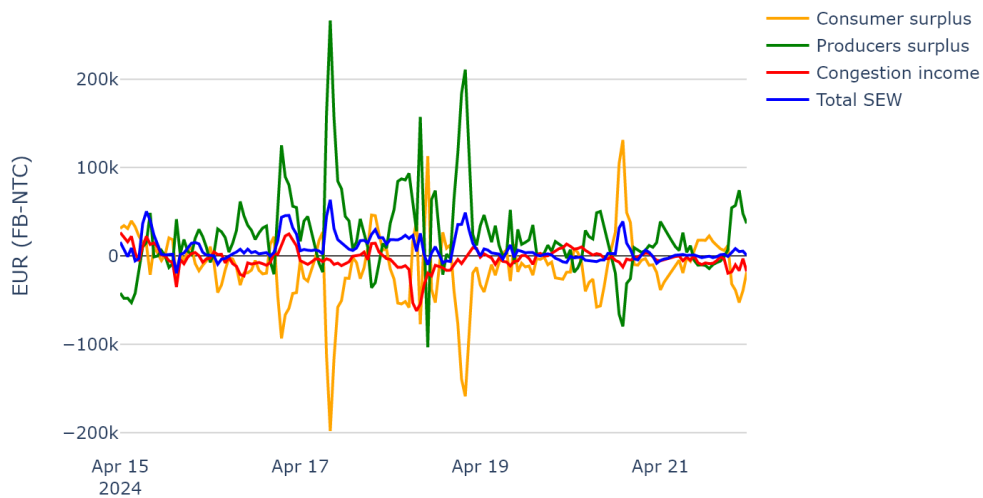
FI, socio-economic welfare per stakeholder and country



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## Norway

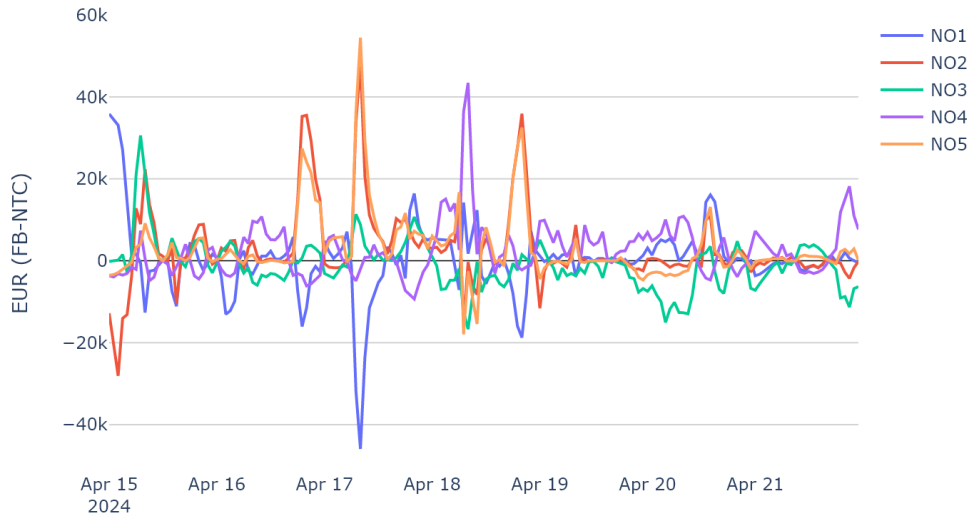
NO, socio-economic welfare per stakeholder and country



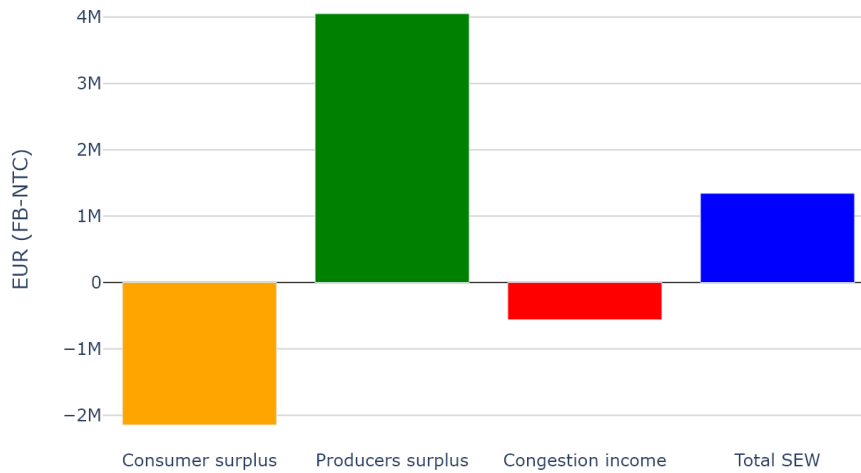




Total socio economic welfaregain FB-NTC per BZ in NO



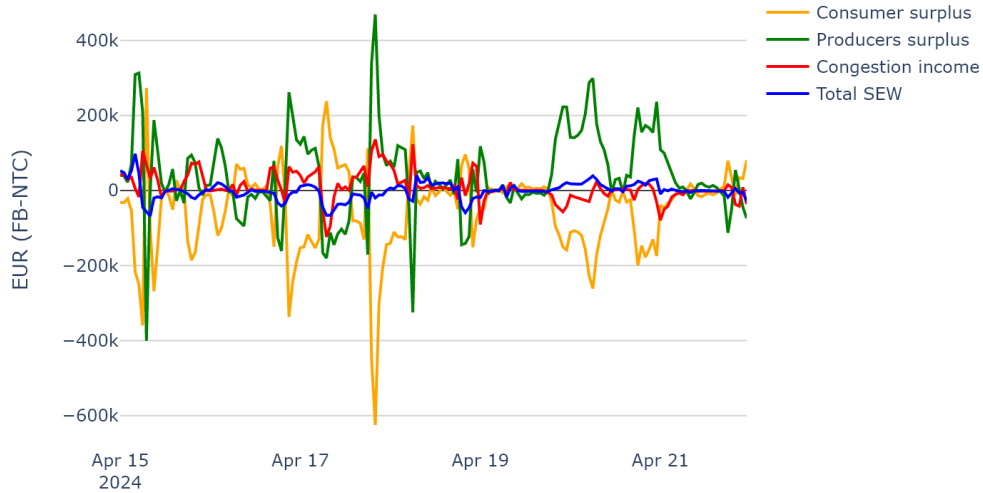
NO, socio-economic welfare per stakeholder and country



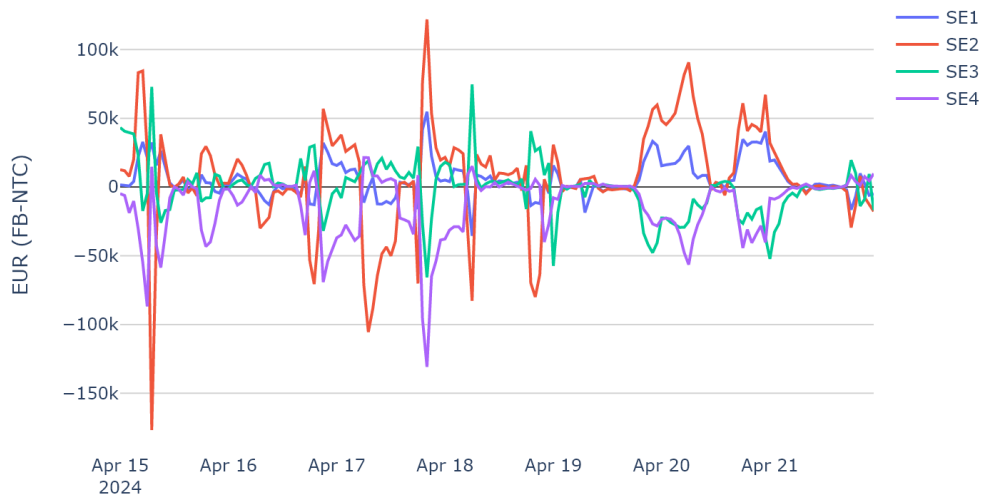


## Sweden

SE, socio-economic welfare per stakeholder and country

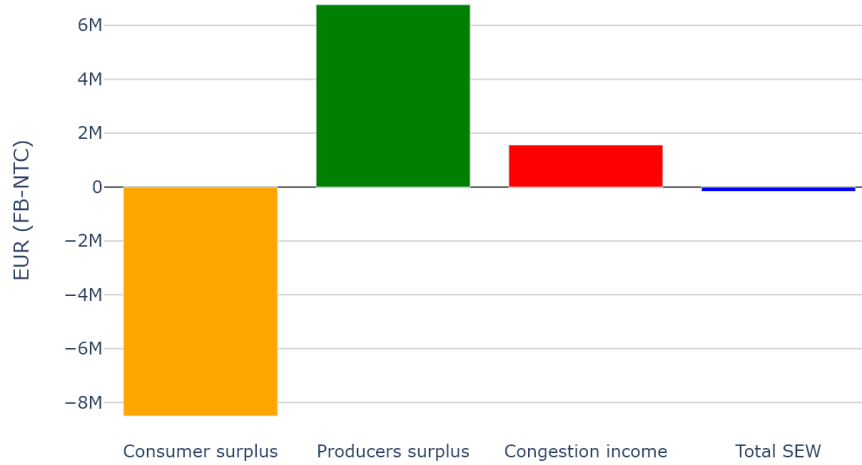


Total socio economic welfaregain FB-NTC per BZ in SE





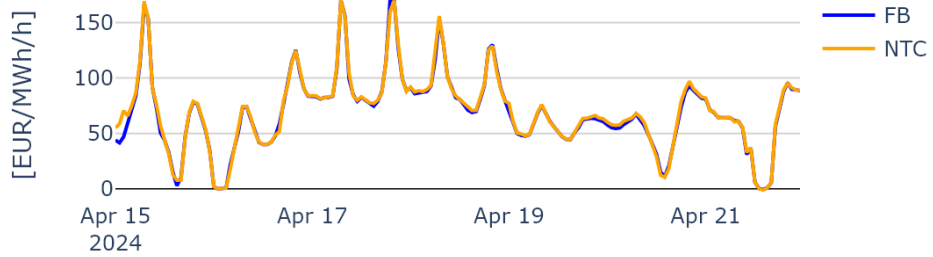
SE, socio-economic welfare per stakeholder and country



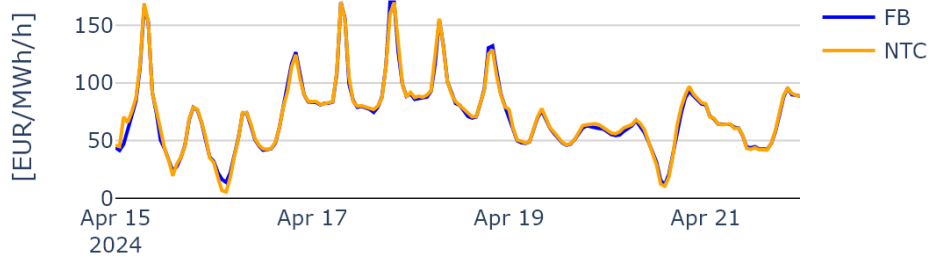


## Prices

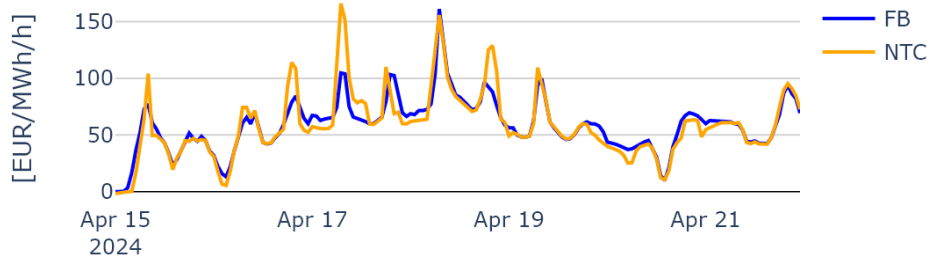
### DK1 price



### DK2 price

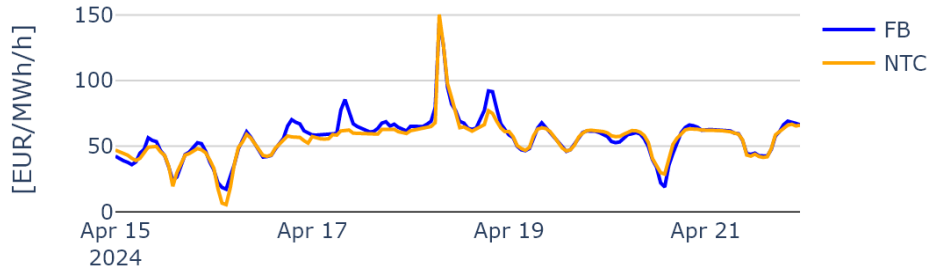


### FI price

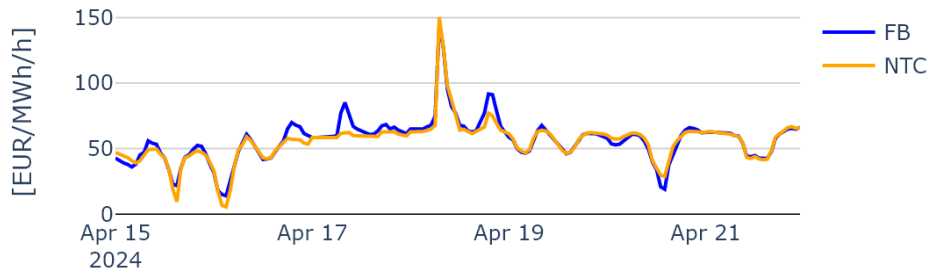




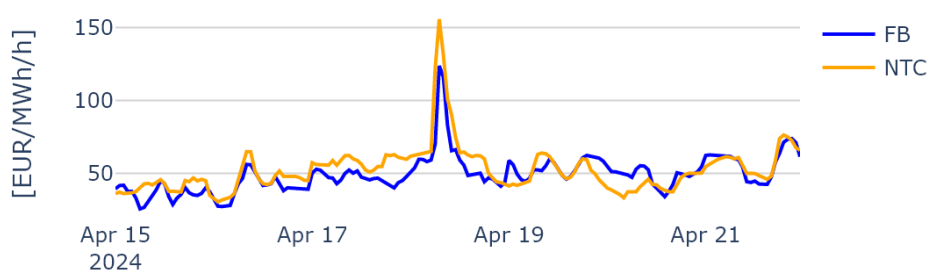
### NO1 price



### NO2 price

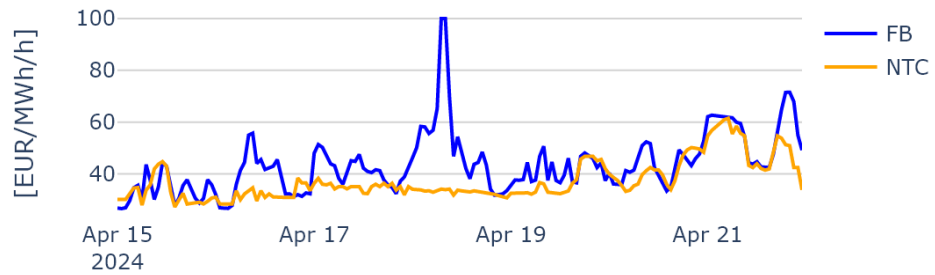


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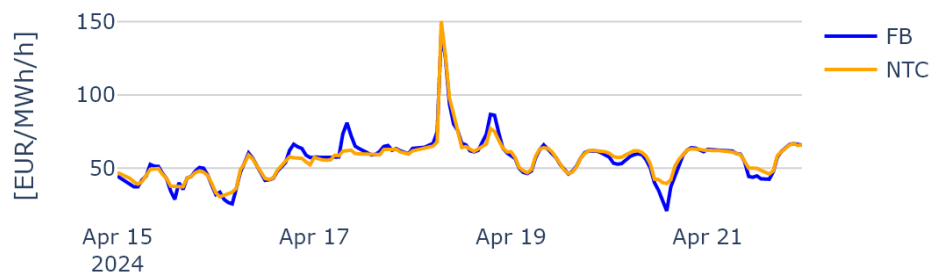




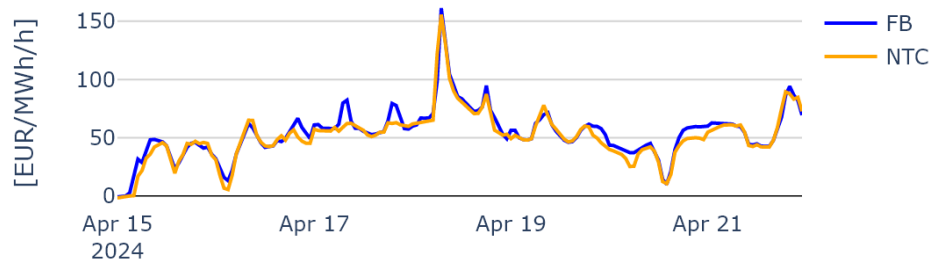
### NO4 price



### NO5 price

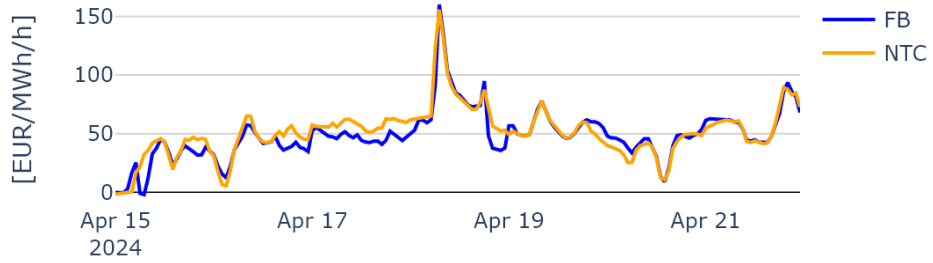


### SE1 price

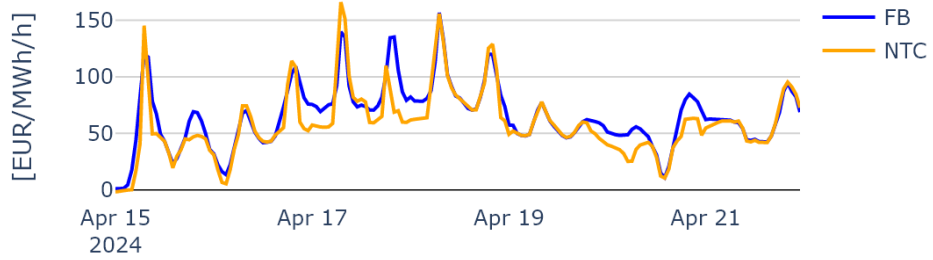




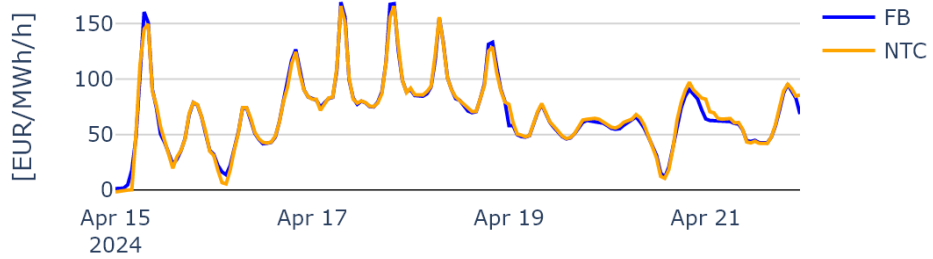
### SE2 price



### SE3 price



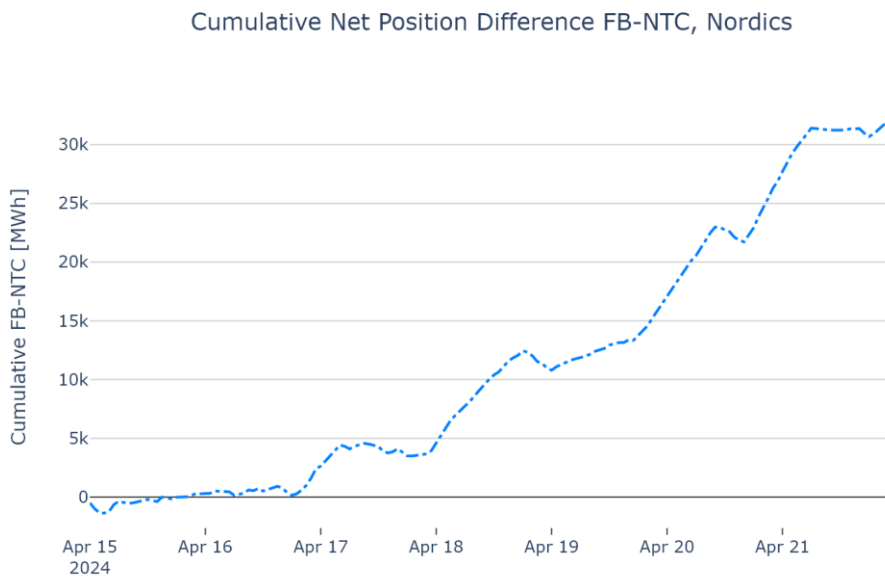
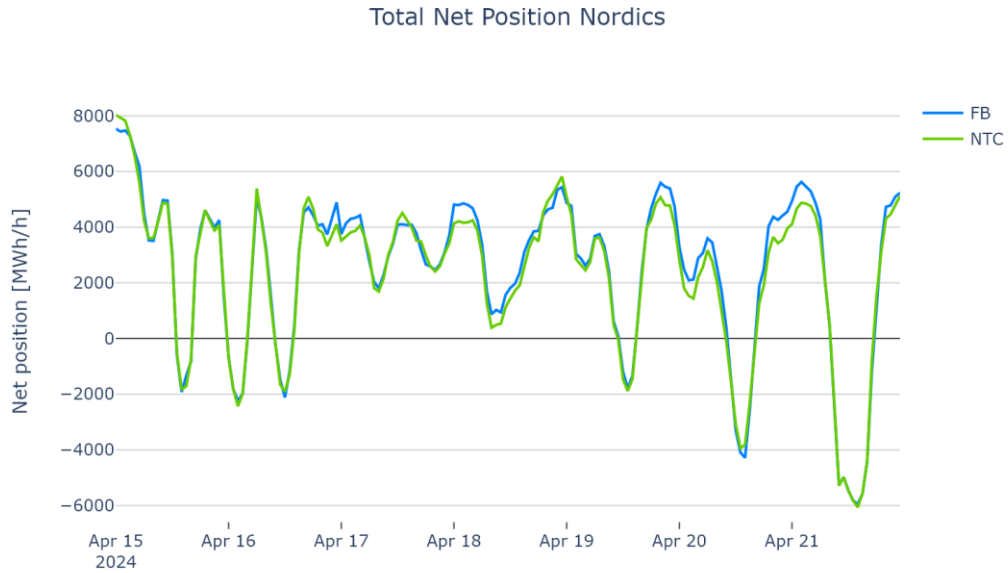
### SE4 price





## Net positions

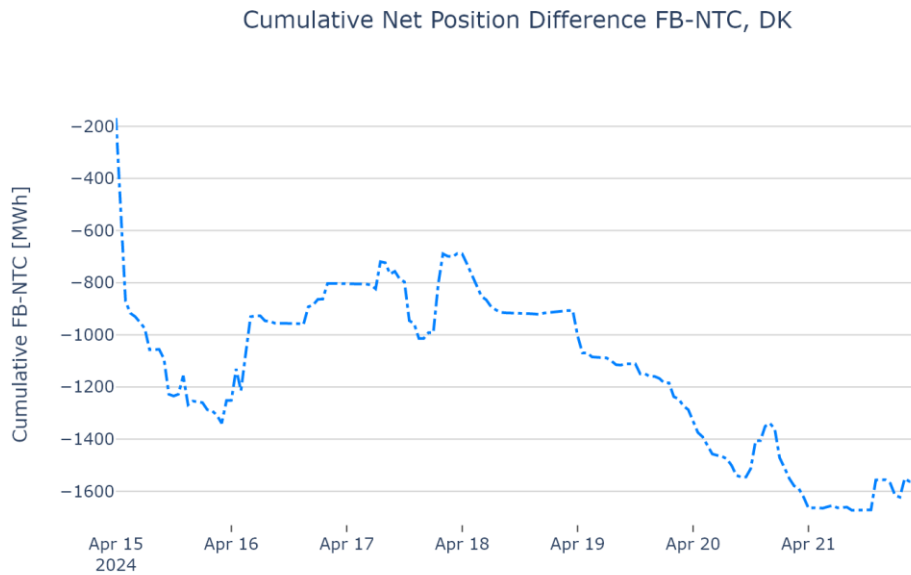
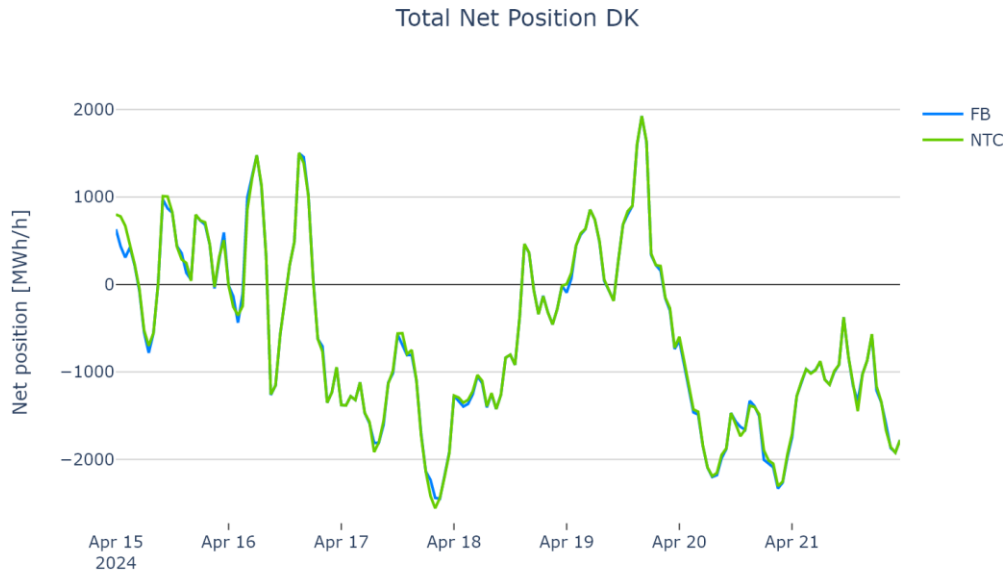
### Nordics





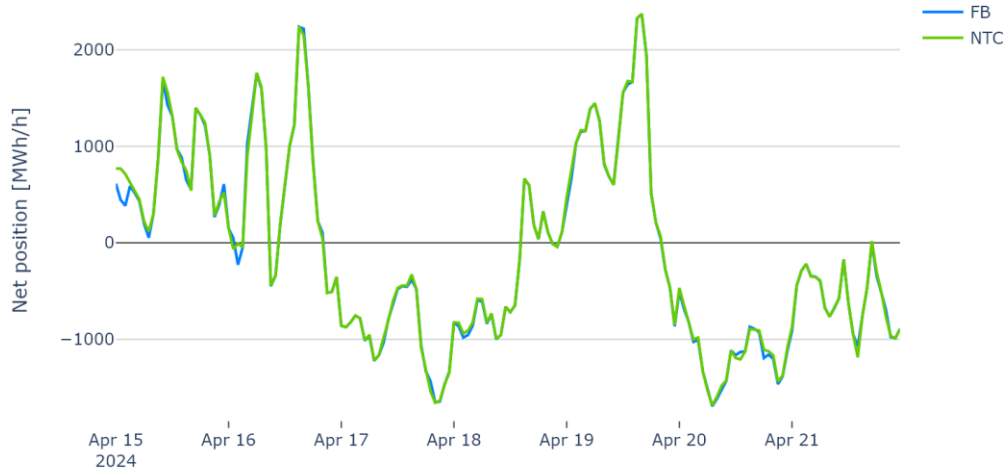


## Denmark



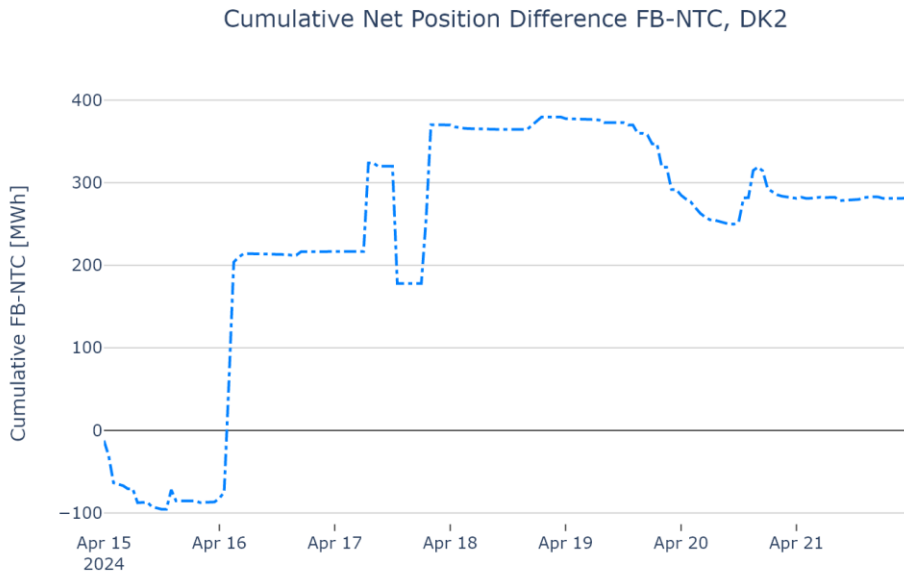
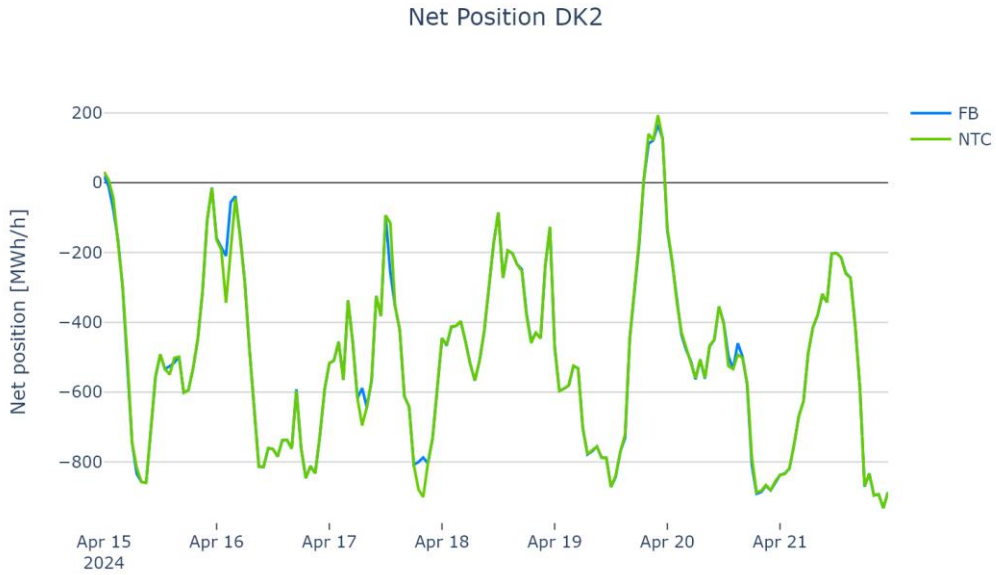


Net Position DK1



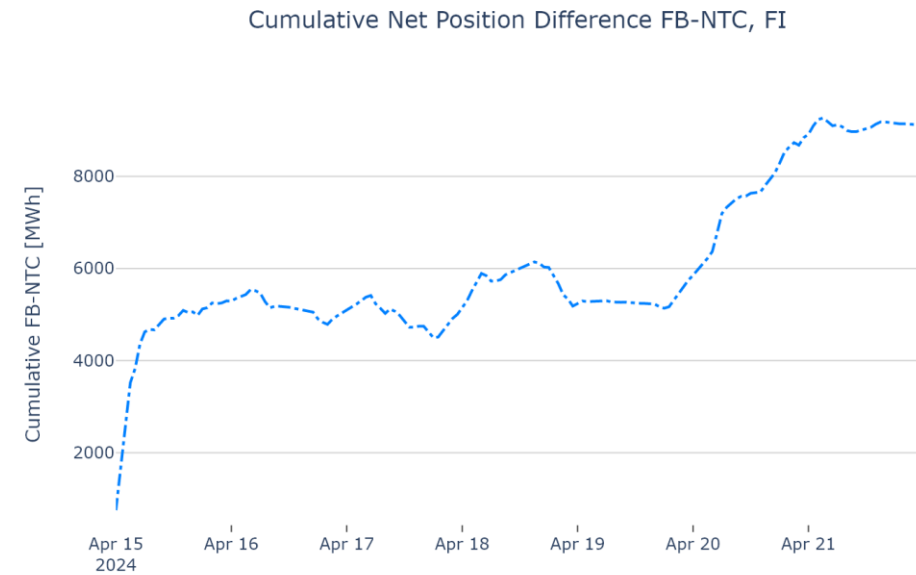
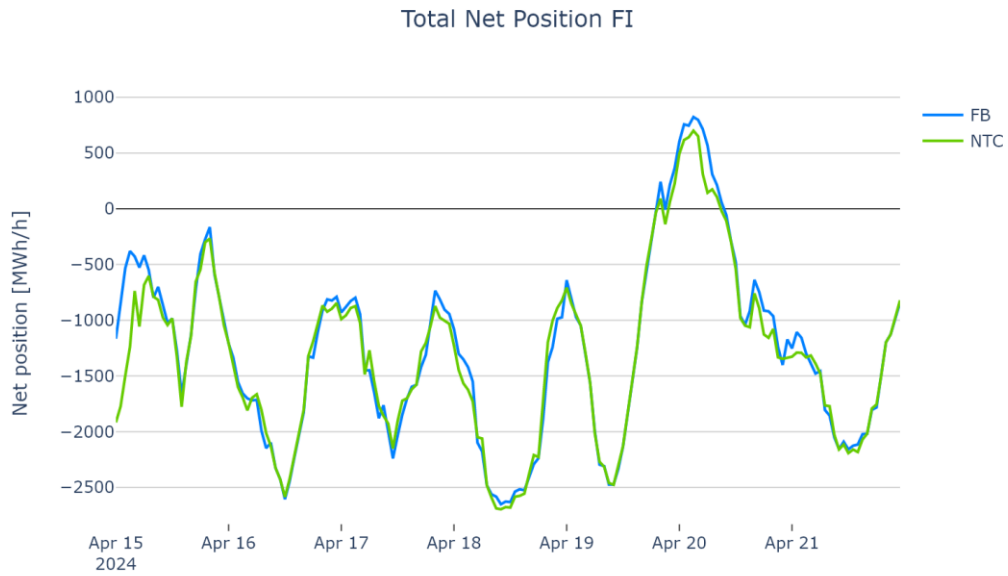
Cumulative Net Position Difference FB-NTC, DK1





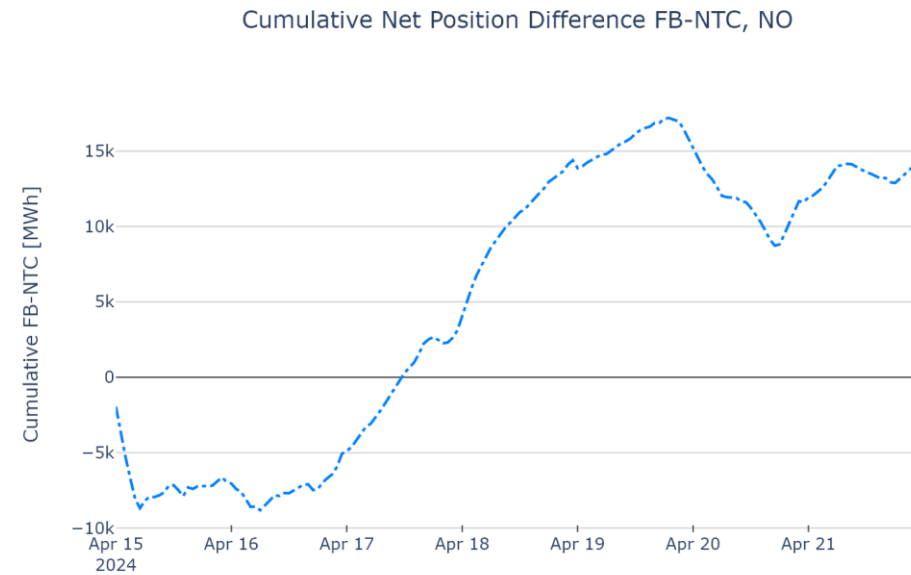
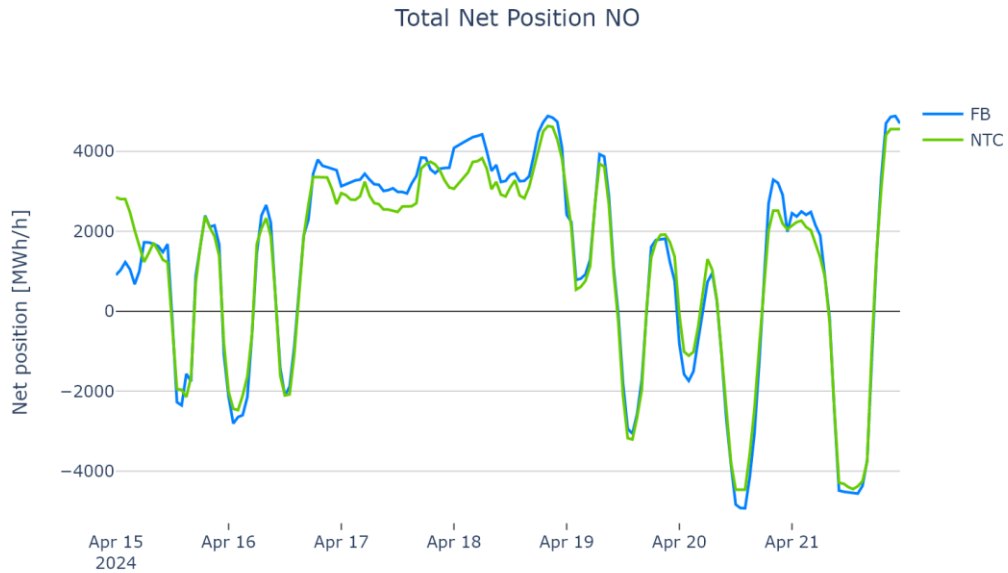


## Finland



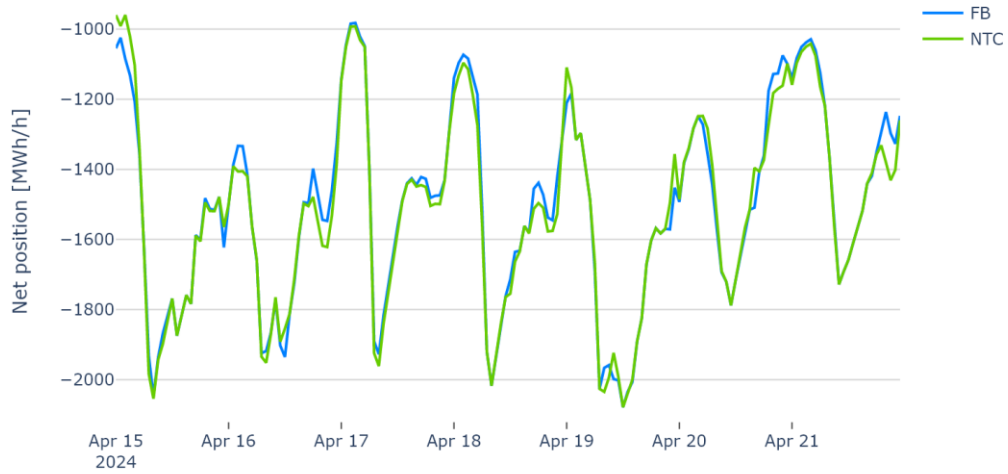


## Norway

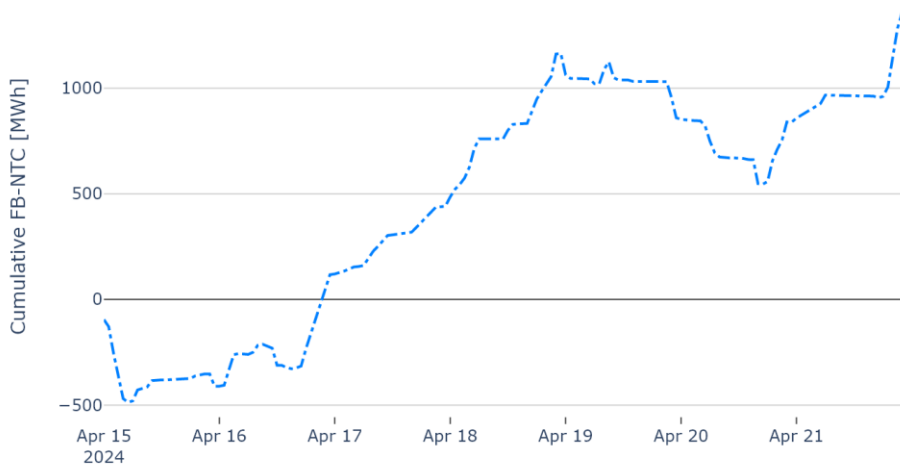


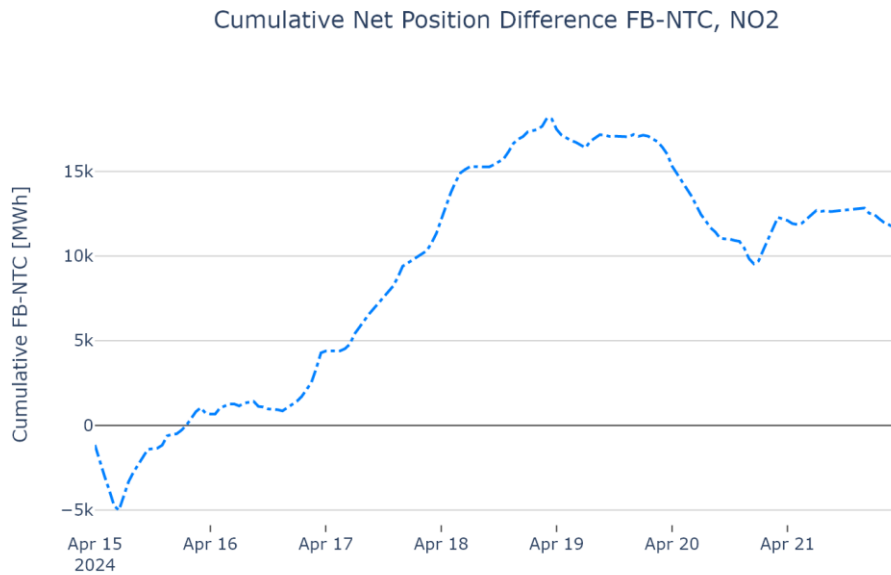
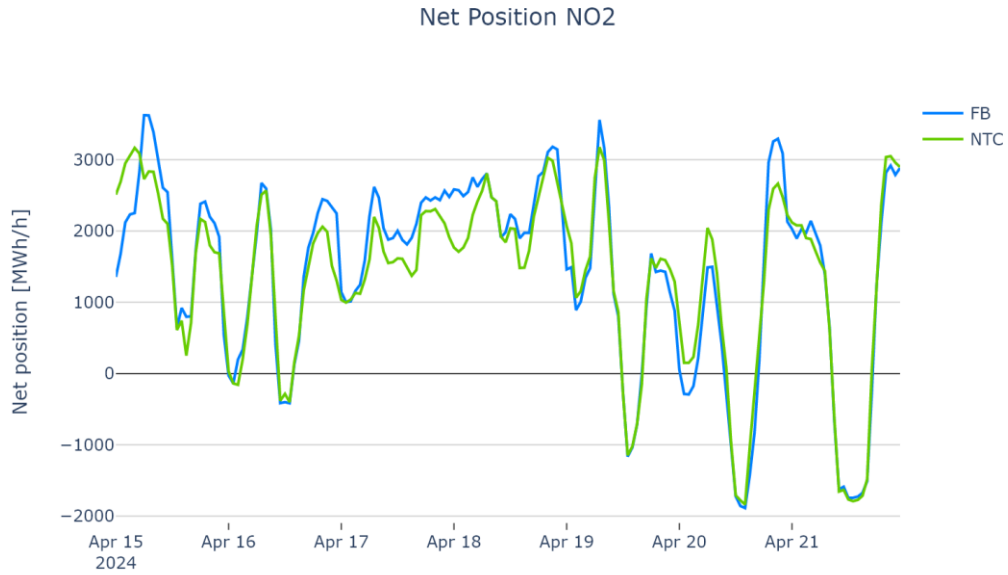


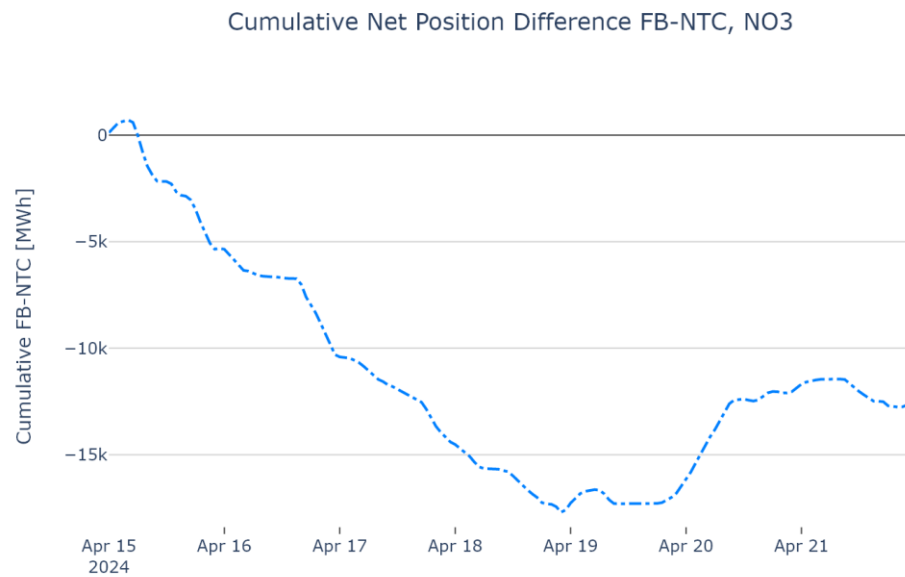
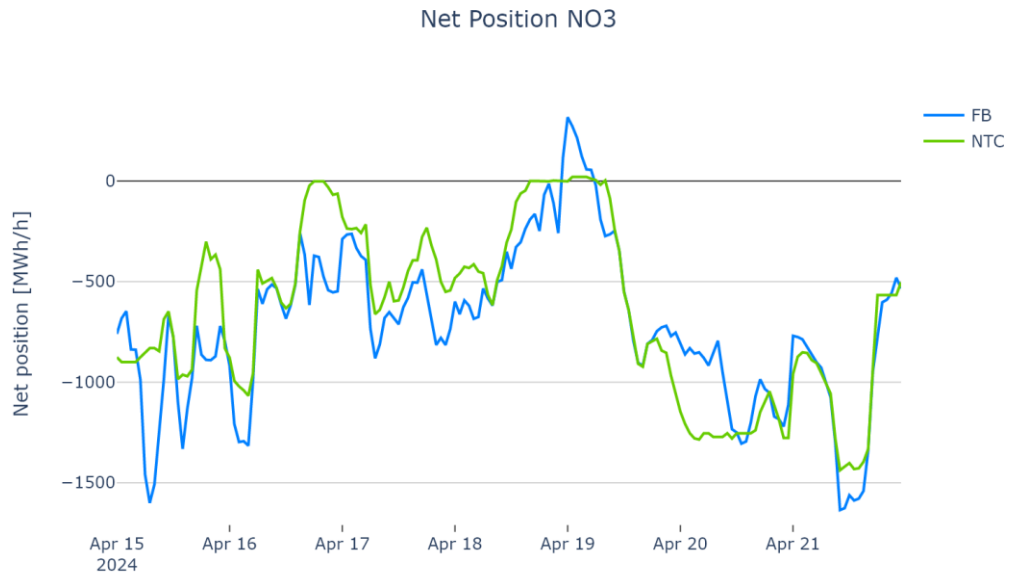
Net Position NO1



Cumulative Net Position Difference FB-NTC, NO1



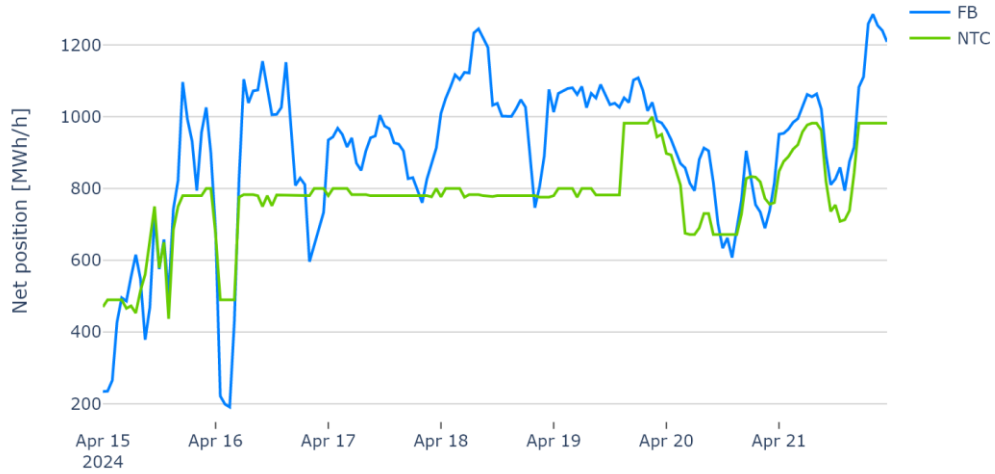




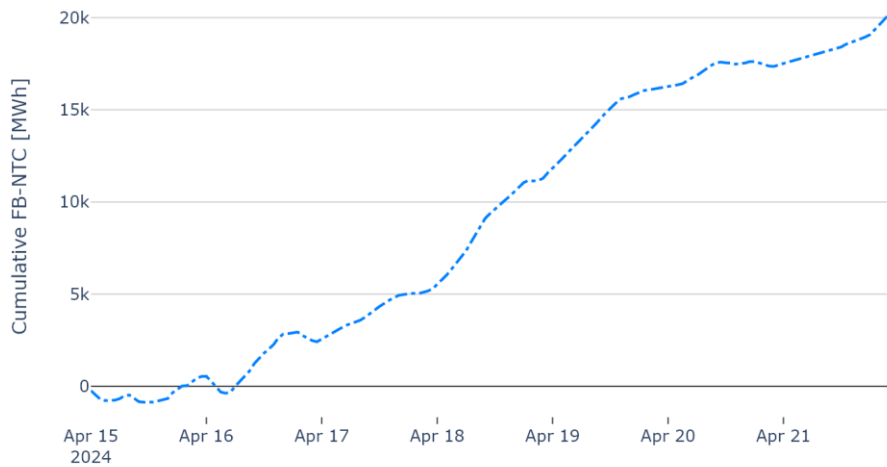




Net Position NO4

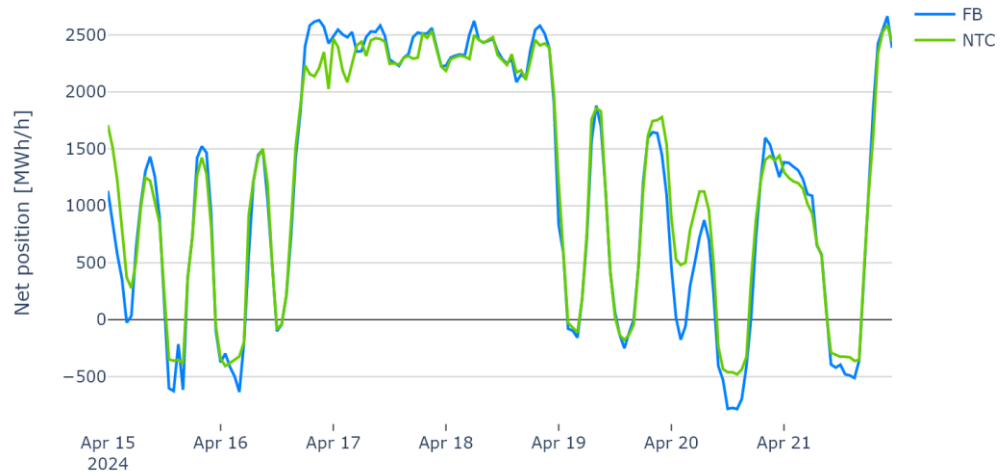


Cumulative Net Position Difference FB-NTC, NO4

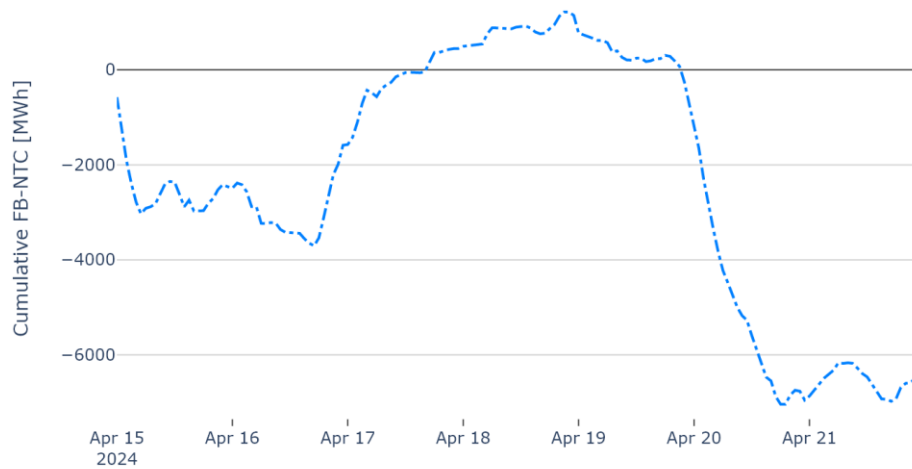




Net Position NO5



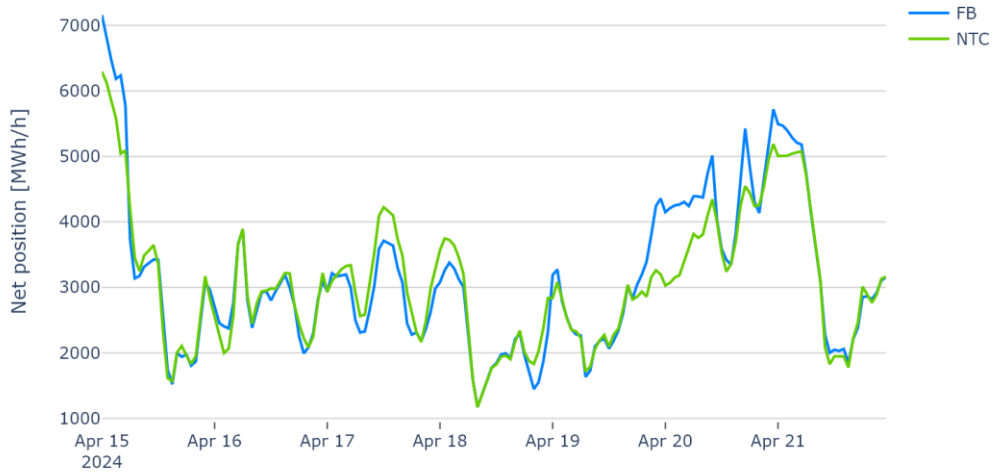
Cumulative Net Position Difference FB-NTC, NO5



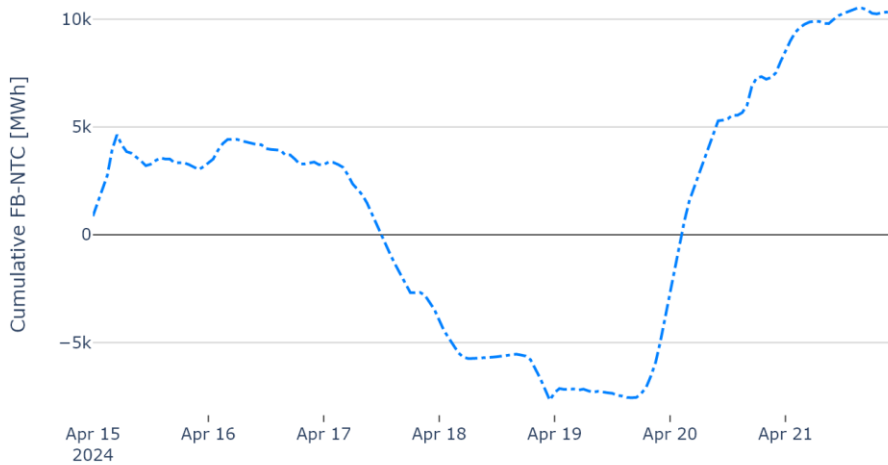


## Sweden

Total Net Position SE

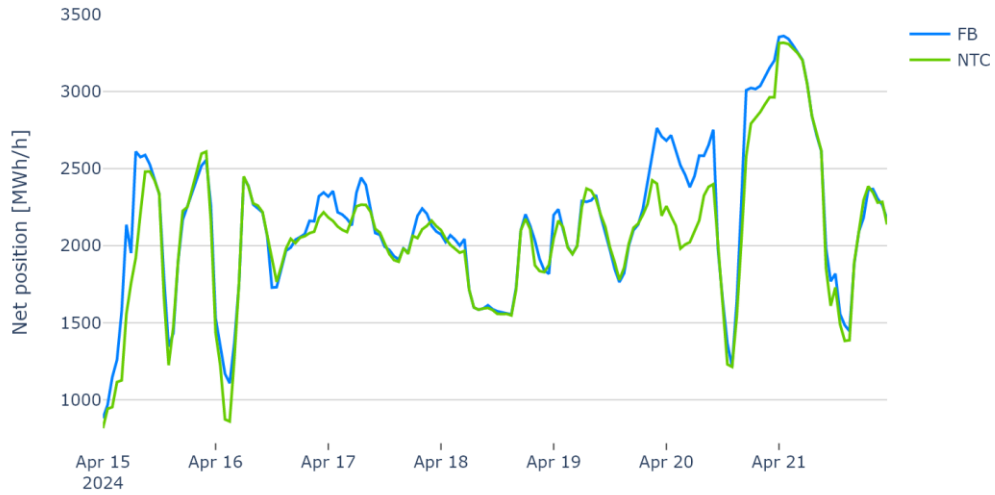


Cumulative Net Position Difference FB-NTC, SE





Net Position SE1

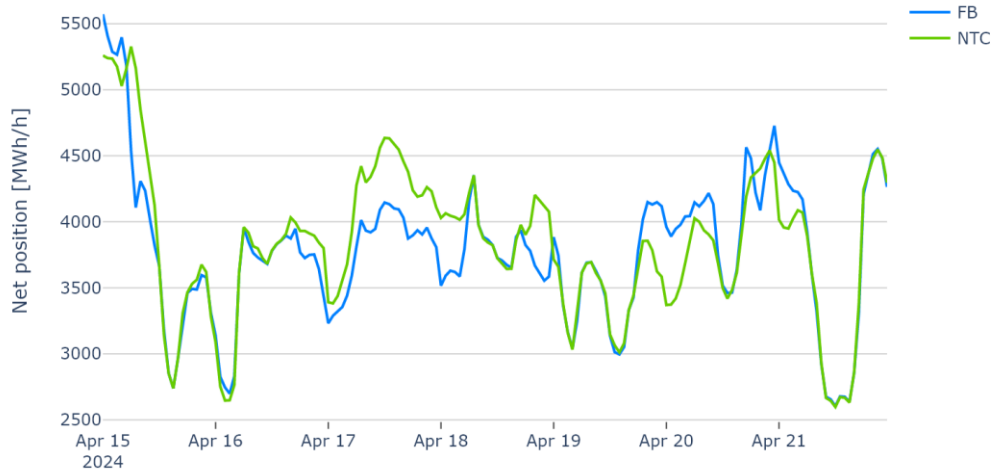


Cumulative Net Position Difference FB-NTC, SE1

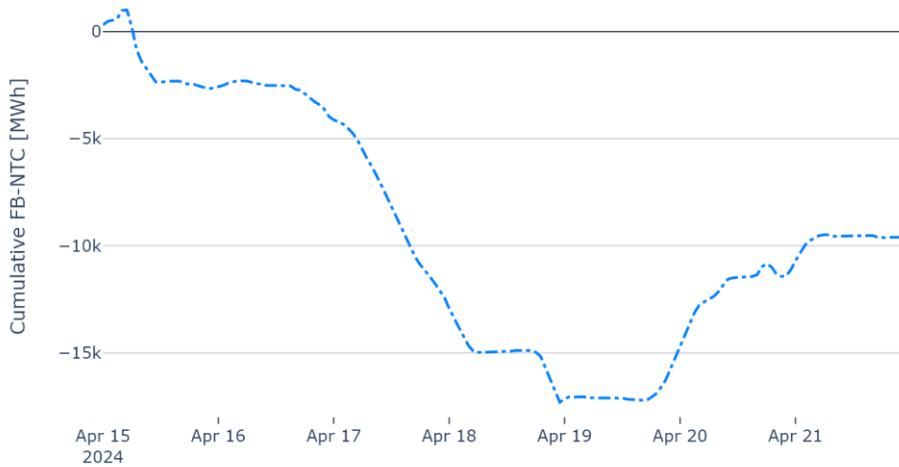




Net Position SE2

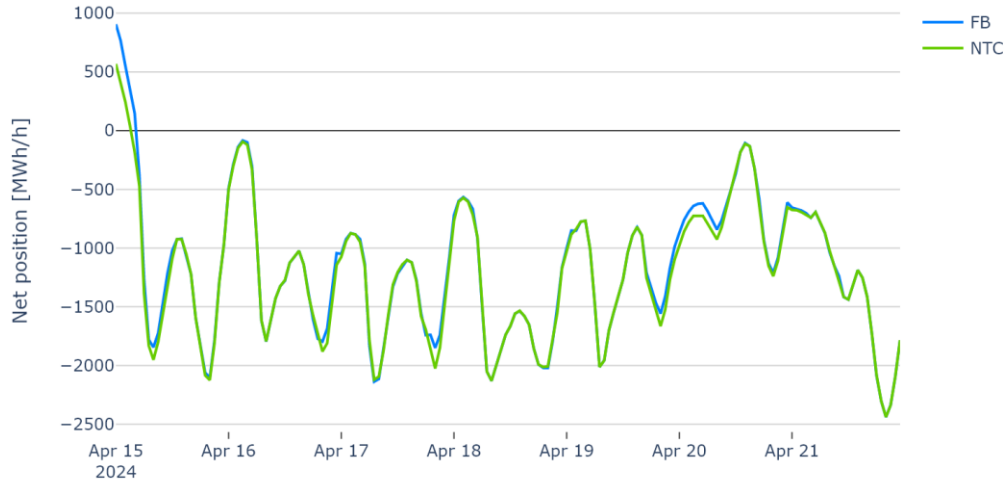


Cumulative Net Position Difference FB-NTC, SE2

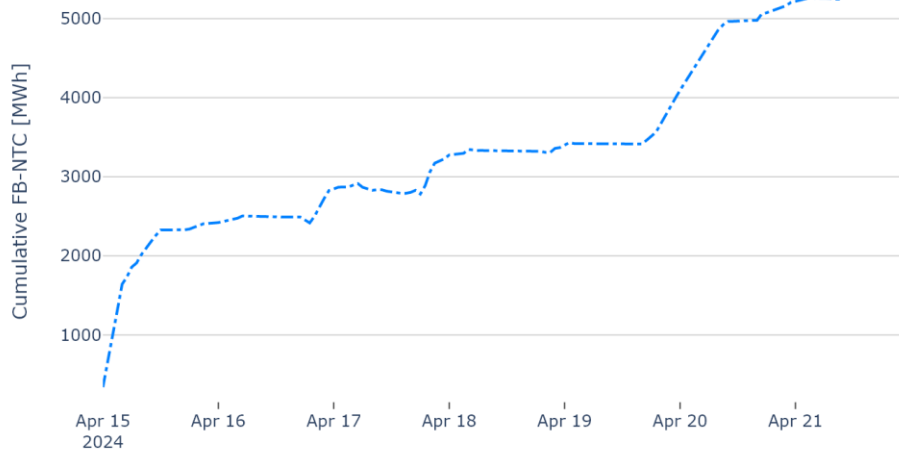




Net Position SE3

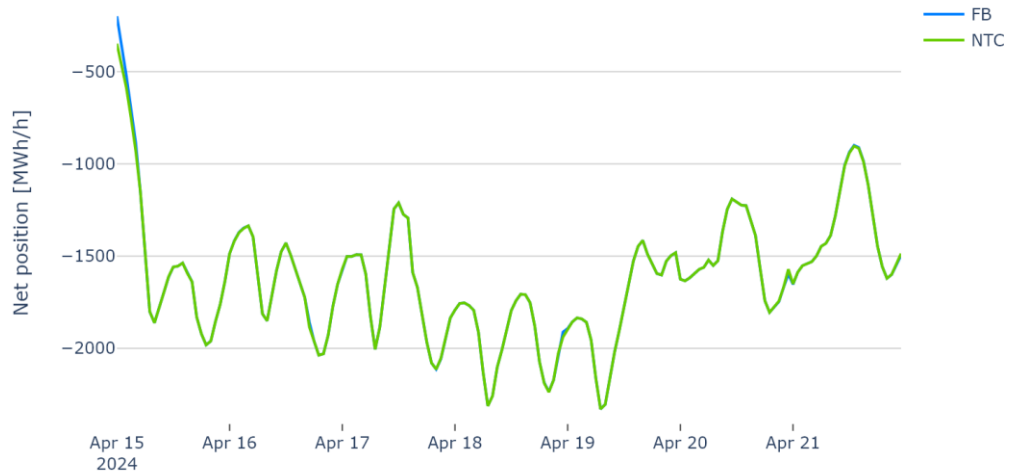


Cumulative Net Position Difference FB-NTC, SE3





### Net Position SE4



### Cumulative Net Position Difference FB-NTC, SE4

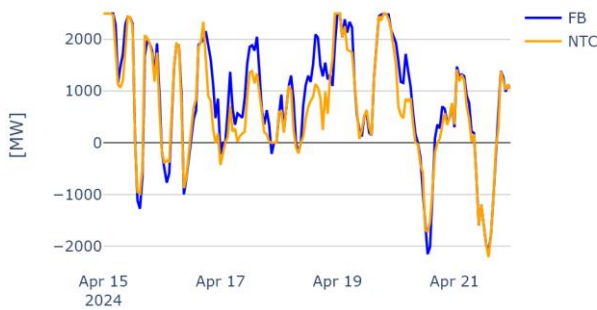




## Border flow

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.

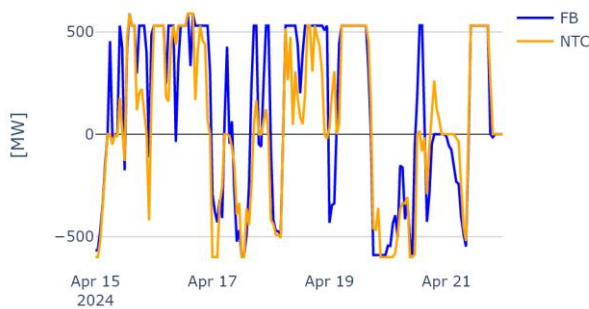
DK1 > DE/LU Physical Flow



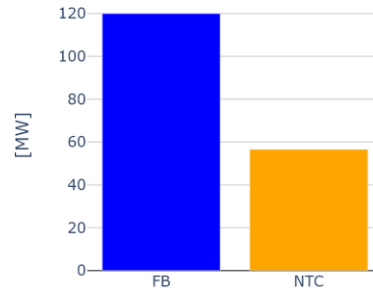
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow



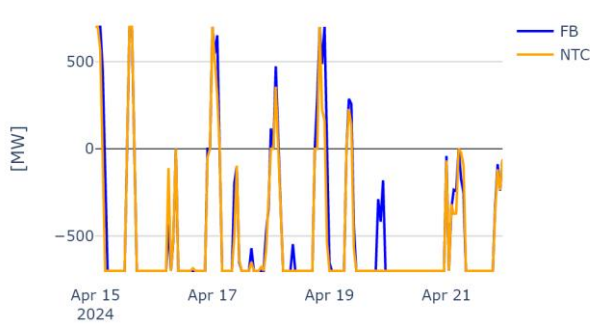
DK1 > DK2 Average flow on border



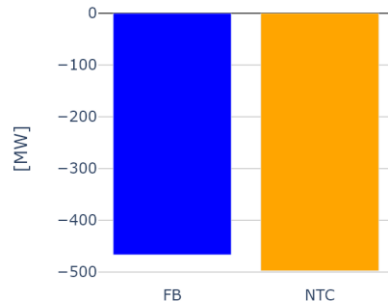




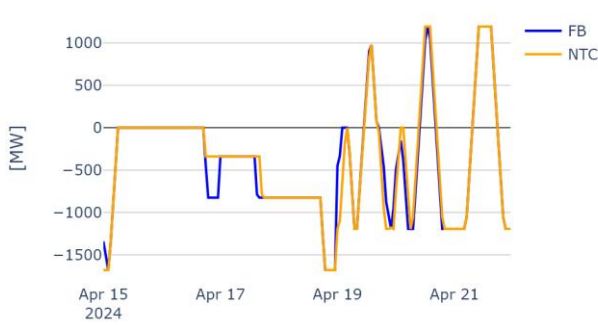
DK1 > NL Physical Flow



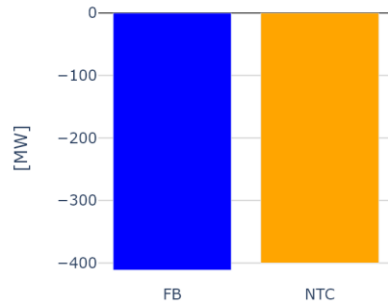
DK1 > NL Average flow on border



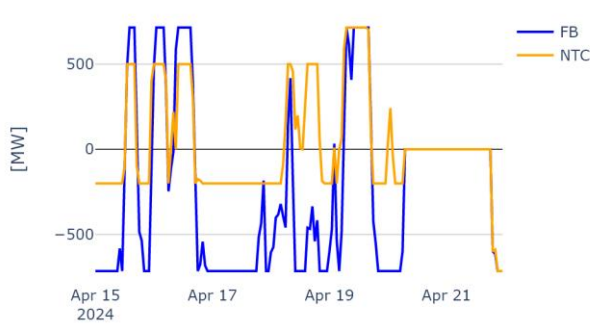
DK1 > NO2 Physical Flow



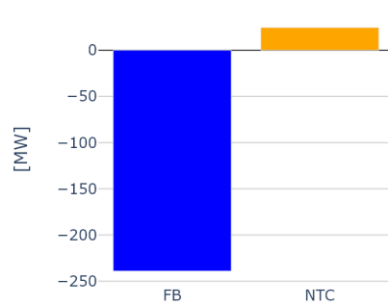
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

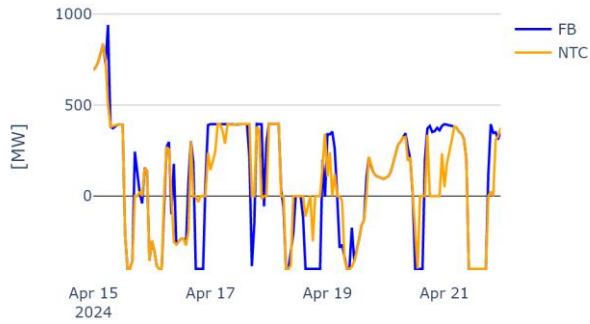


DK1 > SE3 Average flow on border

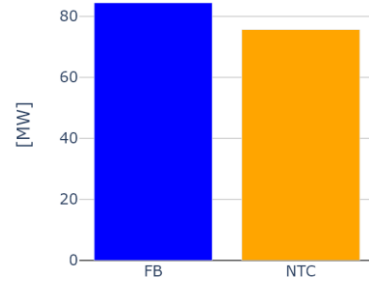




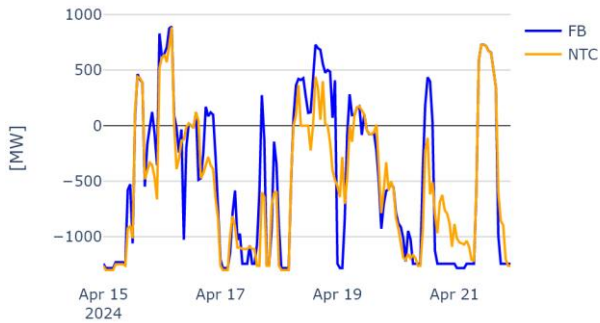
DK2 > DE/LU Physical Flow



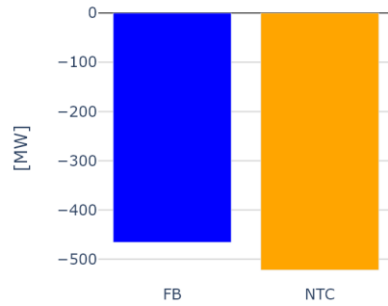
DK2 > DE/LU Average flow on border



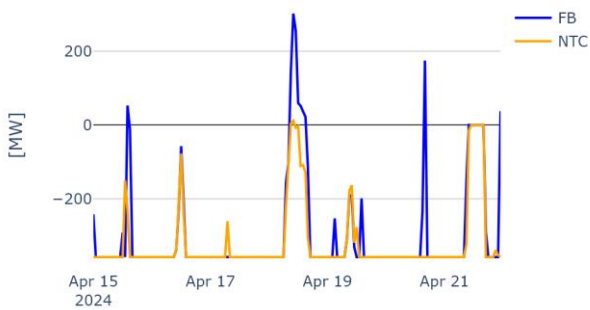
DK2 > SE4 Physical Flow



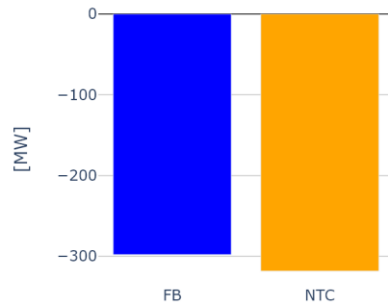
DK2 > SE4 Average flow on border



EE > FI Physical Flow

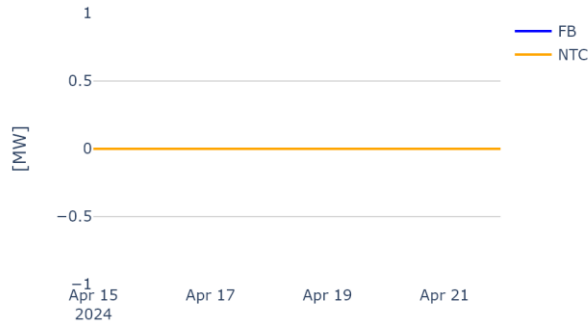


EE > FI Average flow on border

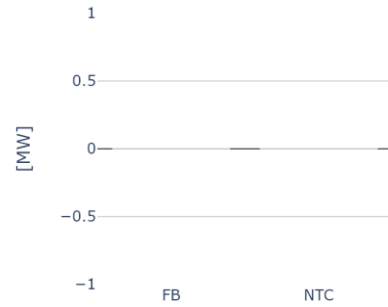




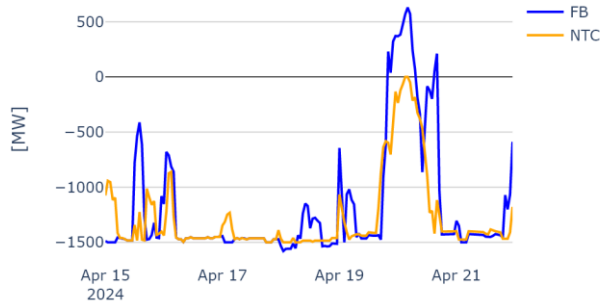
FI > NO4 Physical Flow



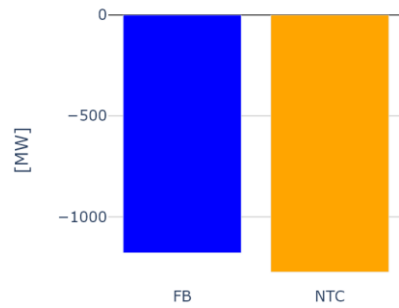
FI > NO4 Average flow on border



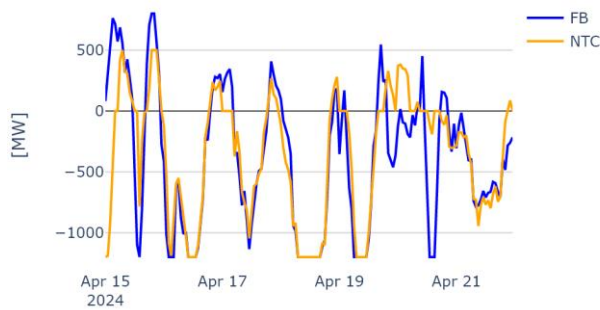
FI > SE1 Physical Flow



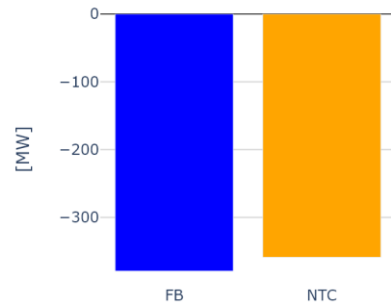
FI > SE1 Average flow on border



FI > SE3 Physical Flow

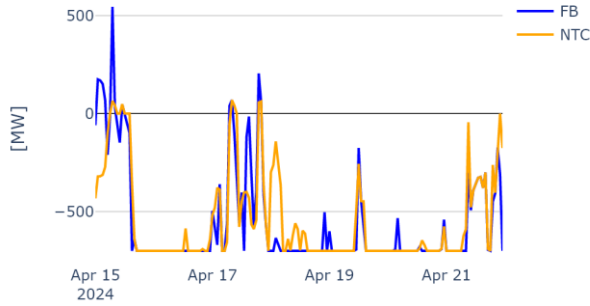


FI > SE3 Average flow on border

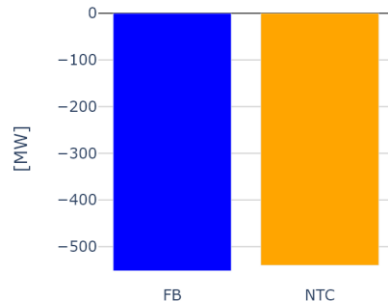




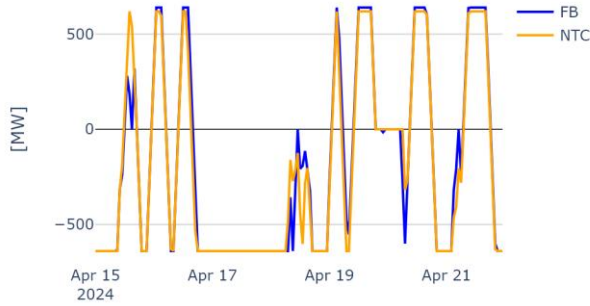
LT > SE4 Physical Flow



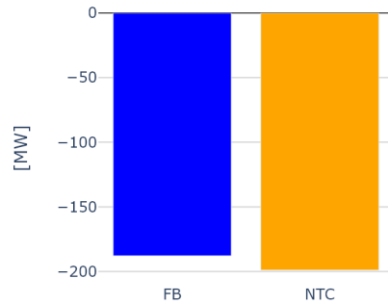
LT > SE4 Average flow on border



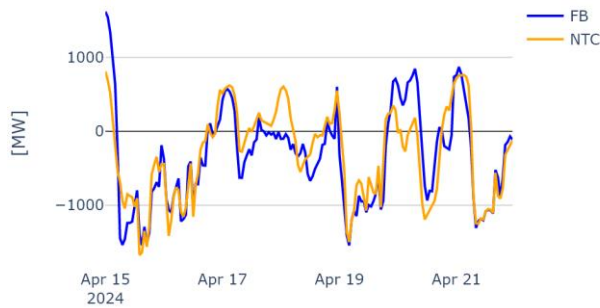
NL > NO2 Physical Flow



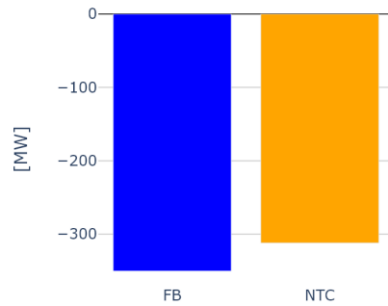
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

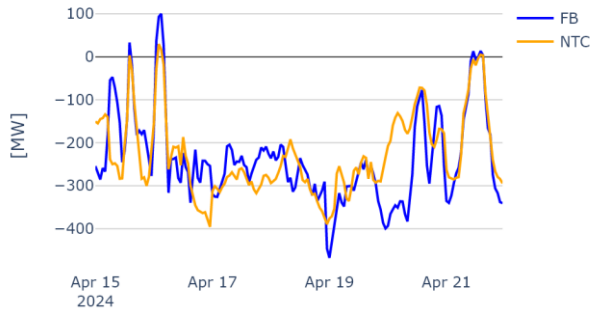


NO1 > NO2 Average flow on border

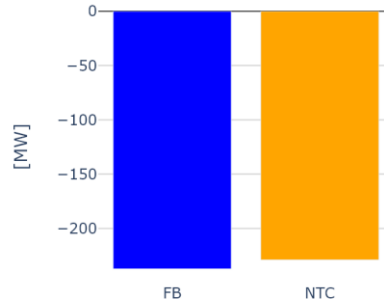




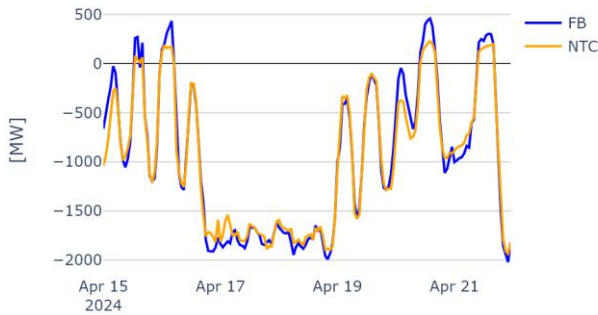
NO1 > NO3 Physical Flow



NO1 > NO3 Average flow on border



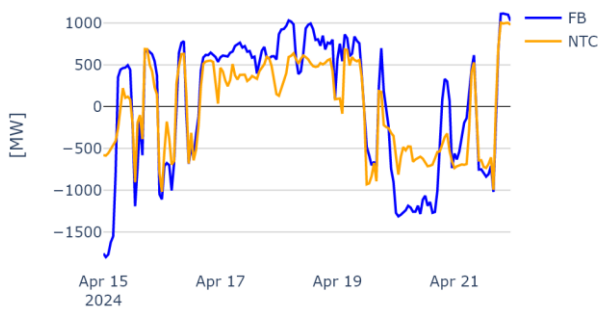
NO1 > NO5 Physical Flow



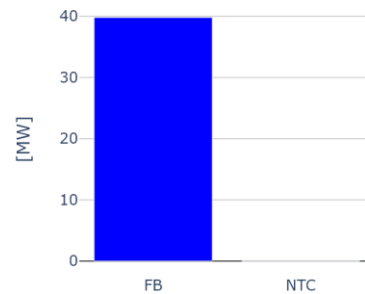
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow

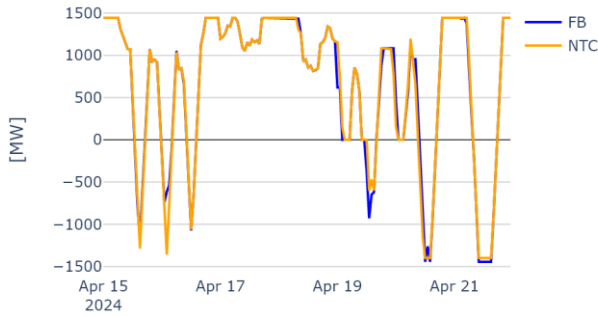


NO1 > SE3 Average flow on border

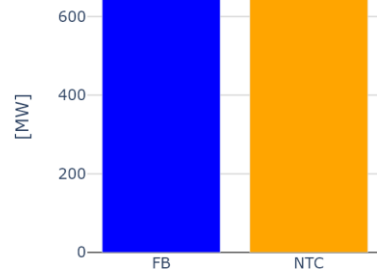




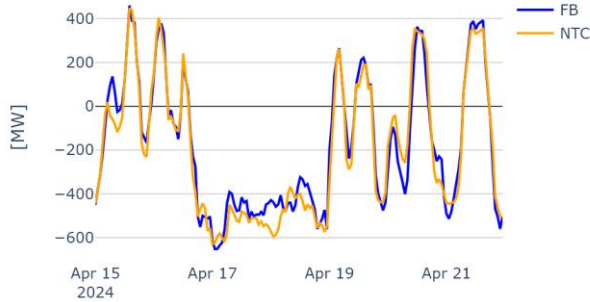
NO2 > DE/LU Physical Flow



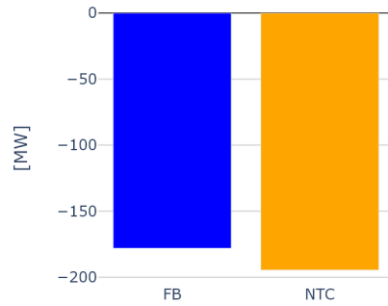
NO2 > DE/LU Average flow on border



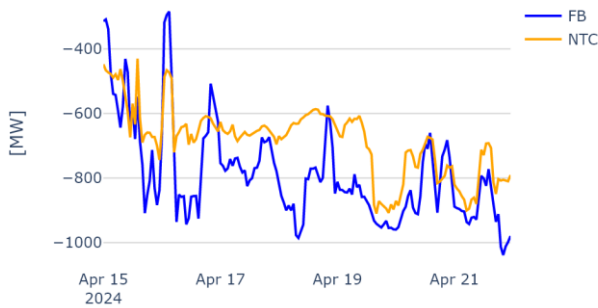
NO2 > NO5 Physical Flow



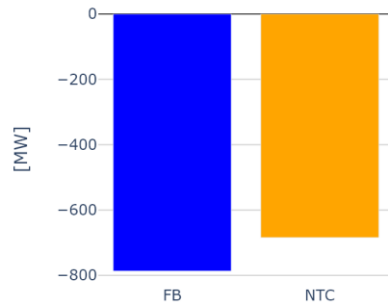
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

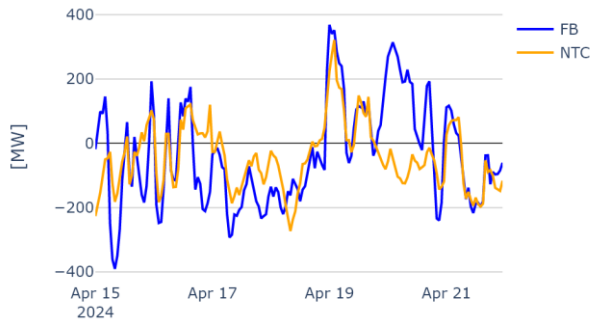


NO3 > NO4 Average flow on border





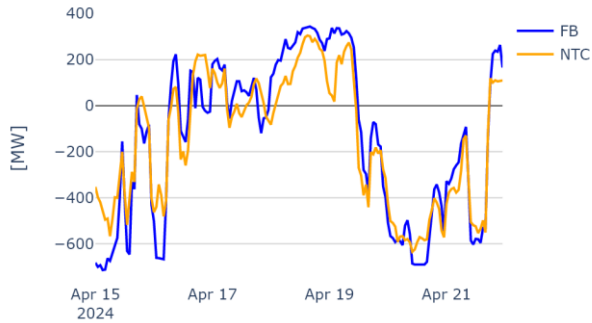
NO3 > NO5 Physical Flow



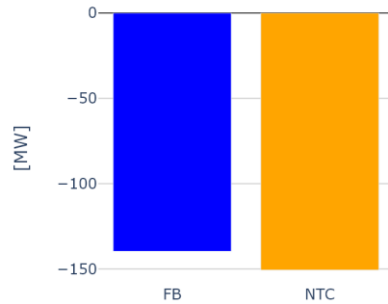
NO3 > NO5 Average flow on border



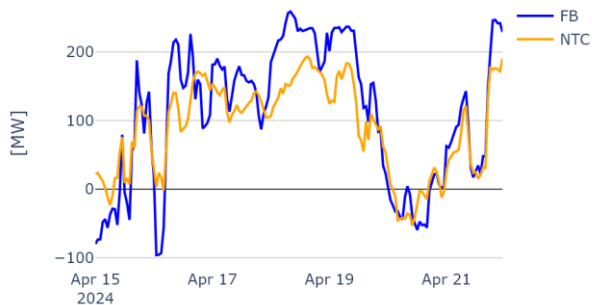
NO3 > SE2 Physical Flow



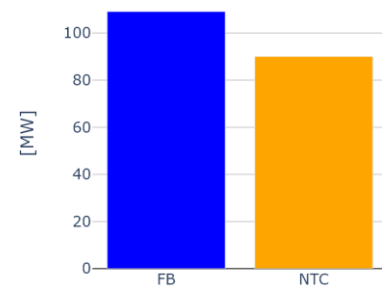
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

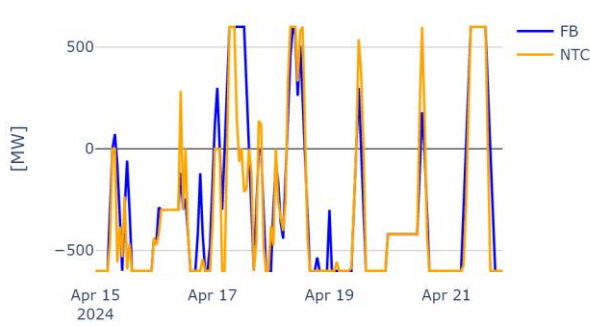


NO4 > SE2 Average flow on border

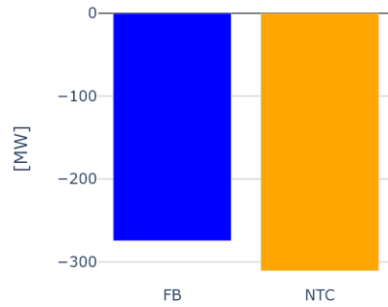




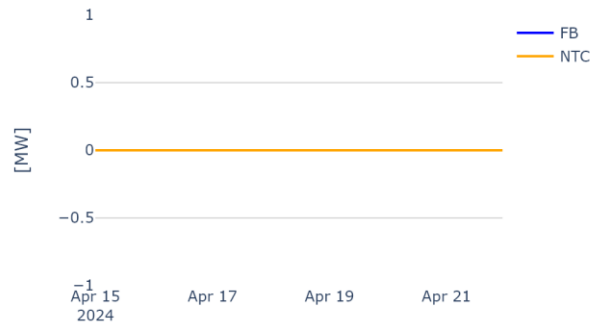
PL > SE4 Physical Flow



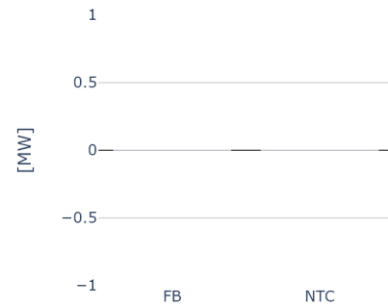
PL > SE4 Average flow on border



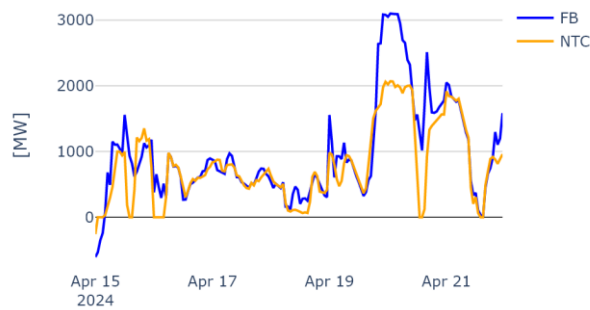
SE1 > NO4 Physical Flow



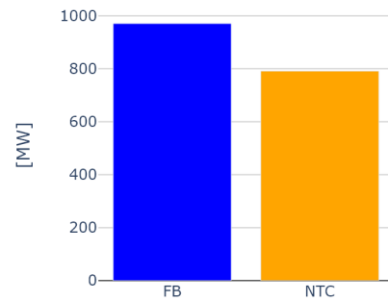
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow



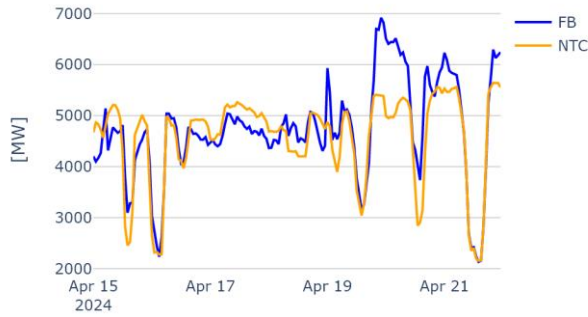
SE1 > SE2 Average flow on border



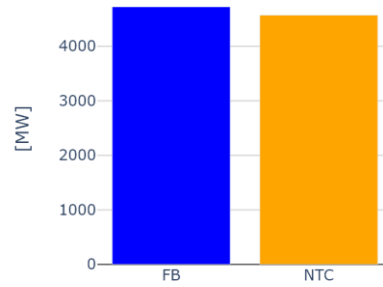




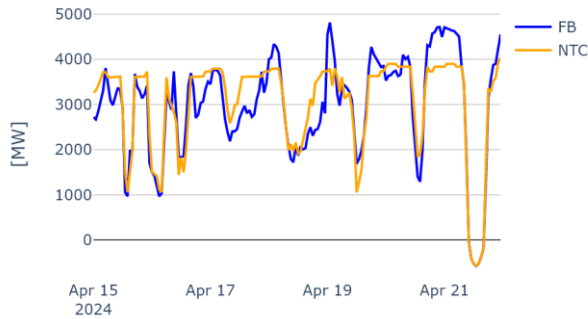
SE2 > SE3 Physical Flow



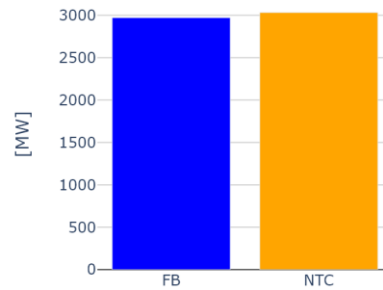
SE2 > SE3 Average flow on border



SE3 > SE4 Physical Flow



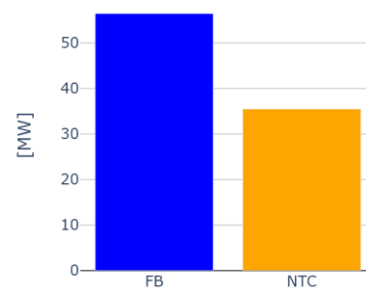
SE3 > SE4 Average flow on border



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	461162	1
DK1 > DK2	230961	3
DK1 > NL	721365	6
DK1 > NO2	1703798	14
DK1 > SE3	769733	7
DK2 > DE/LU	266982	4
DK2 > SE4	539975	3
EE > FI	1210010	20
FI > NO4	0	0
FI > SE1	1165725	5
FI > SE3	106888	1
LT > SE4	1150573	10
NL > NO2	1726282	19
NO1 > NO2	33826	0
NO1 > NO3	345760	8
NO1 > NO5	308955	1
NO1 > SE3	1470169	11
NO2 > DE/LU	3568252	19
NO2 > NO5	80054	1
NO3 > NO4	765052	6
NO3 > NO5	-151533	-6
NO3 > SE2	466515	6
NO4 > SE2	261040	9
PL > SE4	1572811	18
SE1 > NO4	0	0
SE1 > SE2	-632479	-5
SE2 > SE3	12950794	16
SE3 > SE4	2389359	4
SE4 > DE/LU	490502	6



## 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	1	-5	0
DK1 > NL	0	0	0
DK1 > NO2	2	-3437	-1
DK1 > SE3	10	-8434	-1
DK2 > DE/LU	2	-5	0
DK2 > SE4	17	-4820	0
EE > FI	0	0	0
FI > NO4	0	0	0
FI > SE1	8	-777	0
FI > SE3	38	-239498	-9
LT > SE4	12	-5606	-1
NL > NO2	3	-3048	-2
NO1 > NO2	16	-2629	0
NO1 > NO3	17	-14152	-3
NO1 > NO5	13	-6474	-1
NO1 > SE3	7	-18348	-3
NO2 > DE/LU	4	-5975	-1
NO2 > NO5	18	-6757	-1
NO3 > NO4	4	-19974	-5
NO3 > NO5	57	-175272	-12
NO3 > SE2	18	-13609	-3
NO4 > SE2	6	-1112	-5
PL > SE4	15	-187584	-18
SE1 > NO4	0	0	0
SE1 > SE2	58	-732726	-10
SE2 > SE3	12	-127529	-1
SE3 > SE4	14	-27164	-1
SE4 > DE/LU	0	0	0