



Nordic Capacity Calculation Methodology Project (Nordic CCM)

# Nordic CCM

External Parallel Run Market Report  
Appendix for Week 18 of 2024



## Appendix

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### Domain validation

Energy Delivery Day:	Mon. 29.4.	Tue. 30.4.	Wed. 1.5.	Thu. 2.5.	Fri. 3.5.	Sat. 4.5.	Sun. 5.5.
Invalid/missing IGMs	0	0	0	0	0	0	0
Substituted IGMs	0	0	0	0	0	0	0
Invalid CGMs	0	0	0	0	0	0	0
FB domain back-up	0	0	0	0	0	0	0
IVA provision	0	0	0	0	0	0	0
<b>Final domain acceptance (1 TSO =25%)</b>	100%	100%	100%	100%	100%	100%	100%

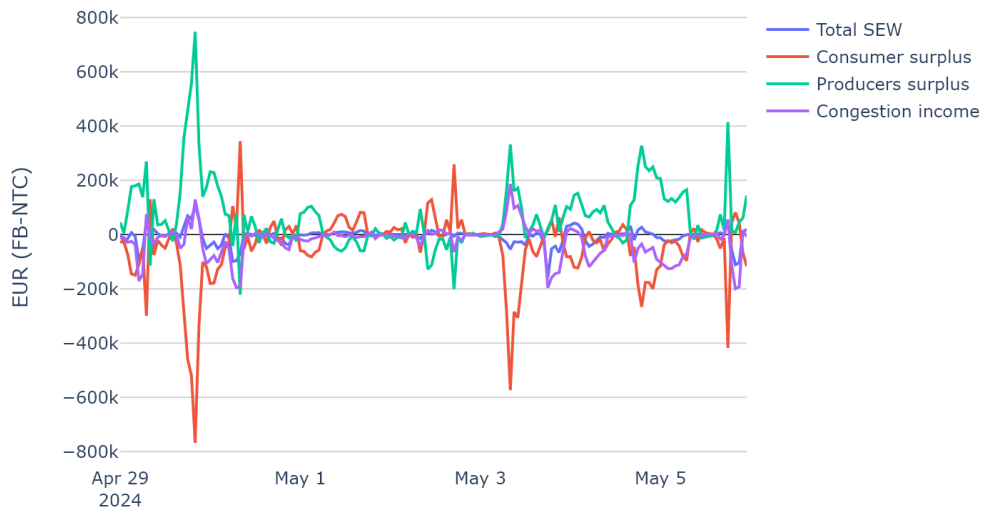


## Socio Economic Welfare

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.

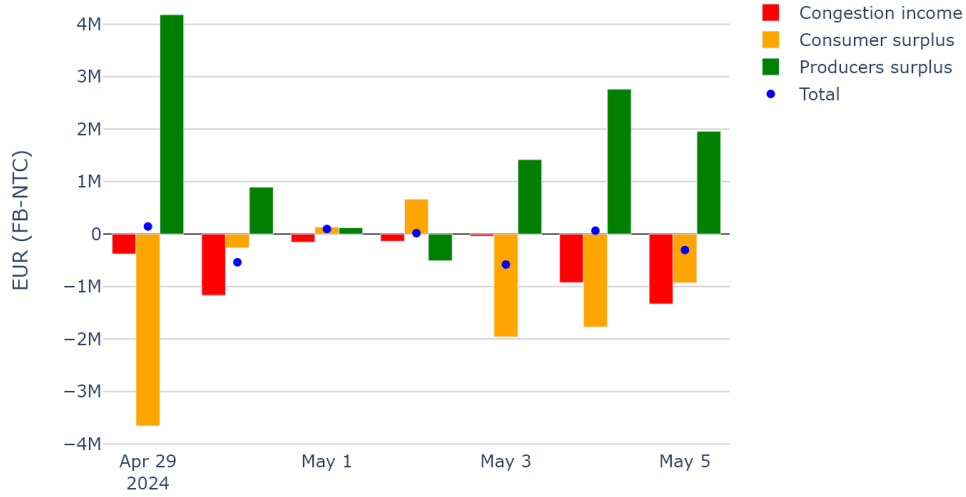
### Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

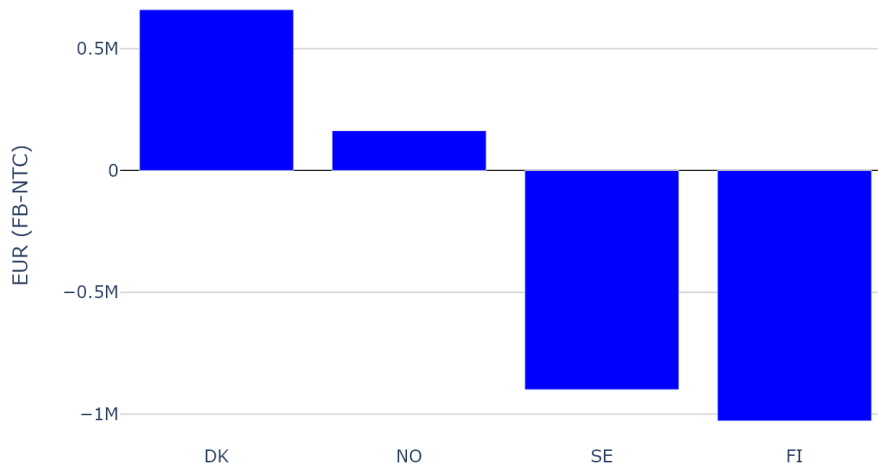




Nordics socio-economic welfare per stakeholder and day

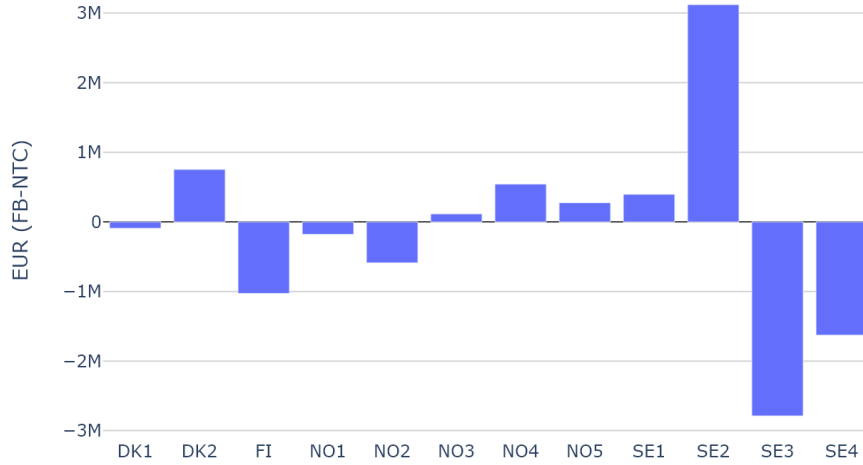


Total Nordic socio-economic welfare per country



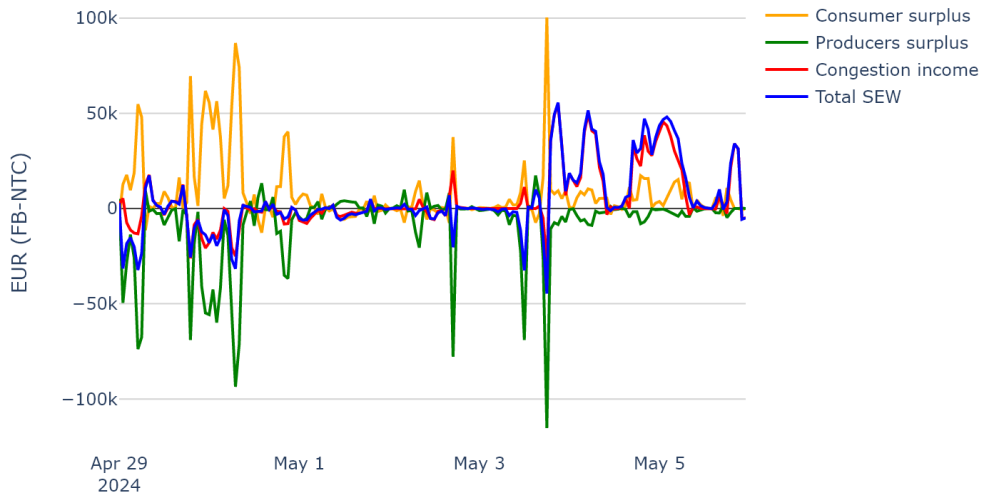


Socio economic welfaregain FB-NTC per BZ - Total\_sew



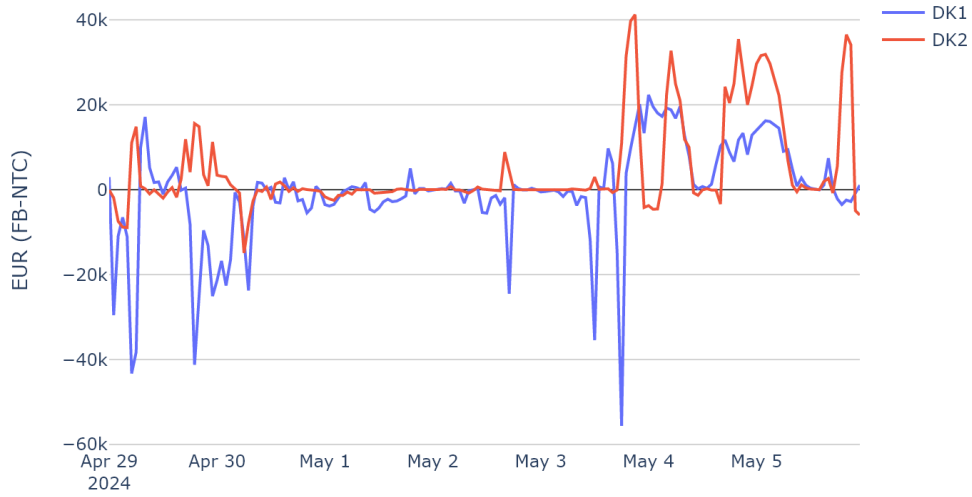
## Denmark

DK, socio-economic welfare per stakeholder and country

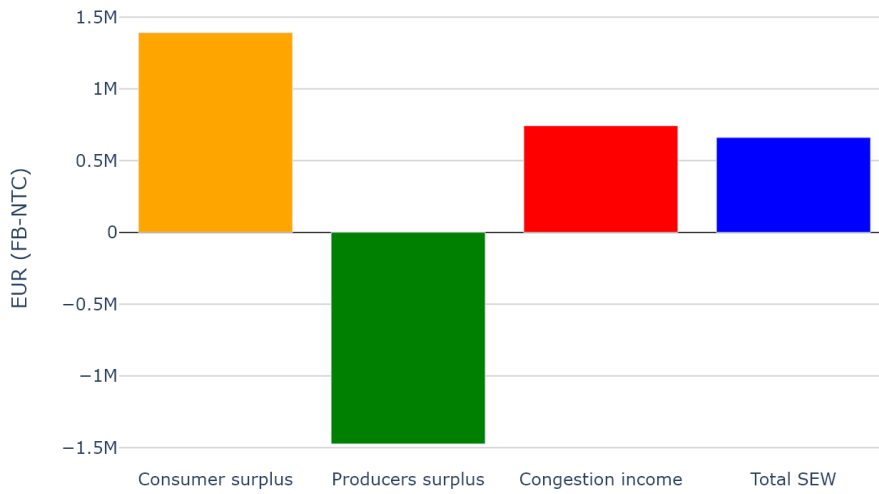




Total socio economic welfaregain FB-NTC per BZ in DK



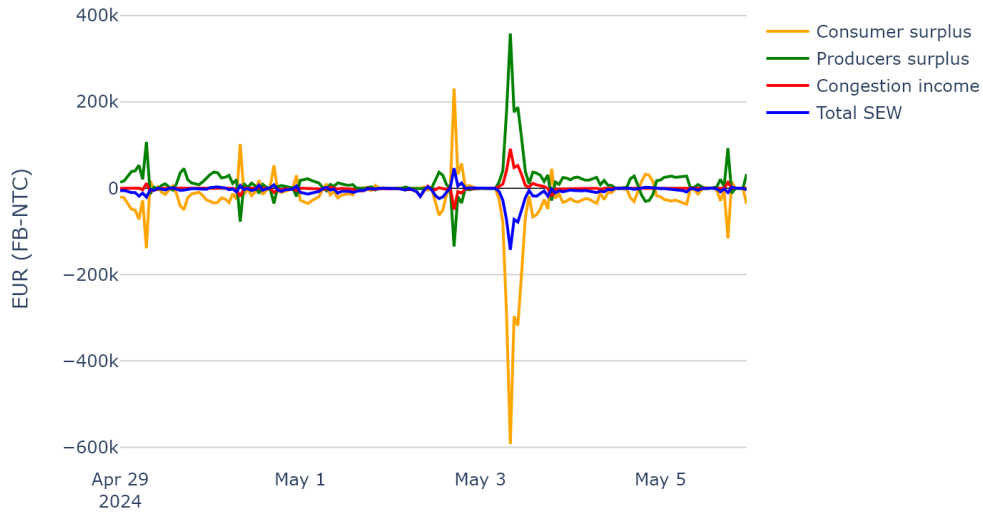
DK, socio-economic welfare per stakeholder and country



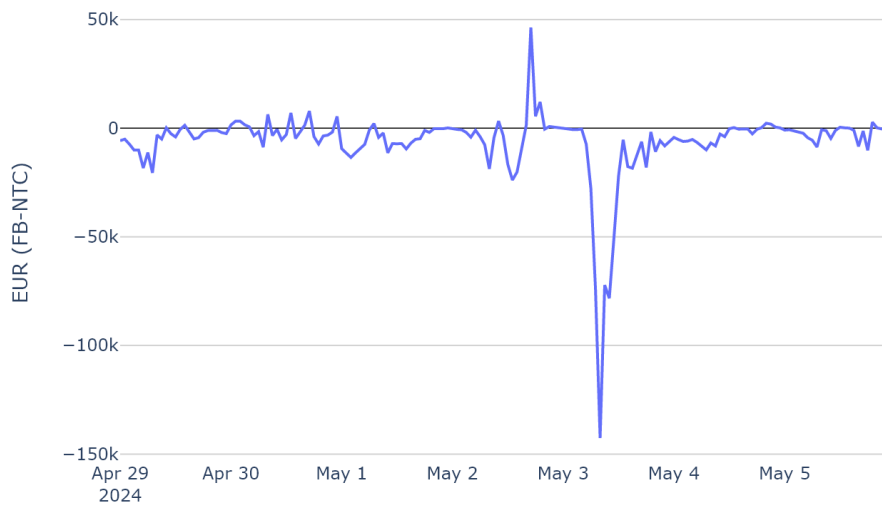


## Finland

FI, socio-economic welfare per stakeholder and country

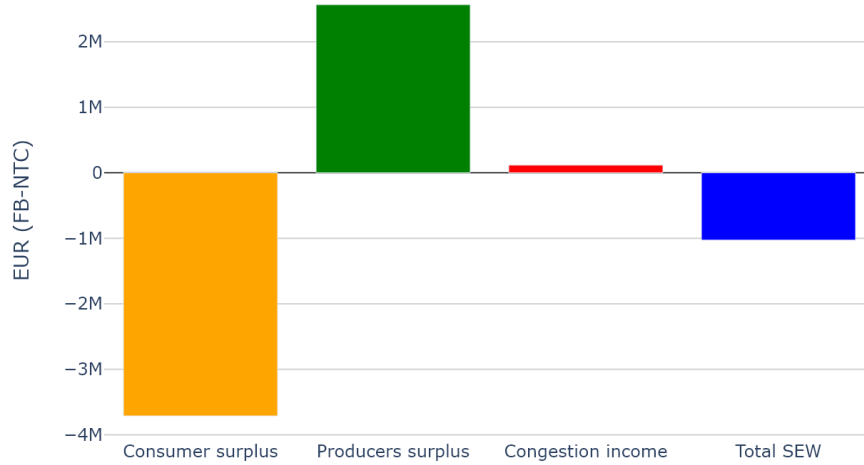


Total socio economic welfaregain FB-NTC per BZ in FI



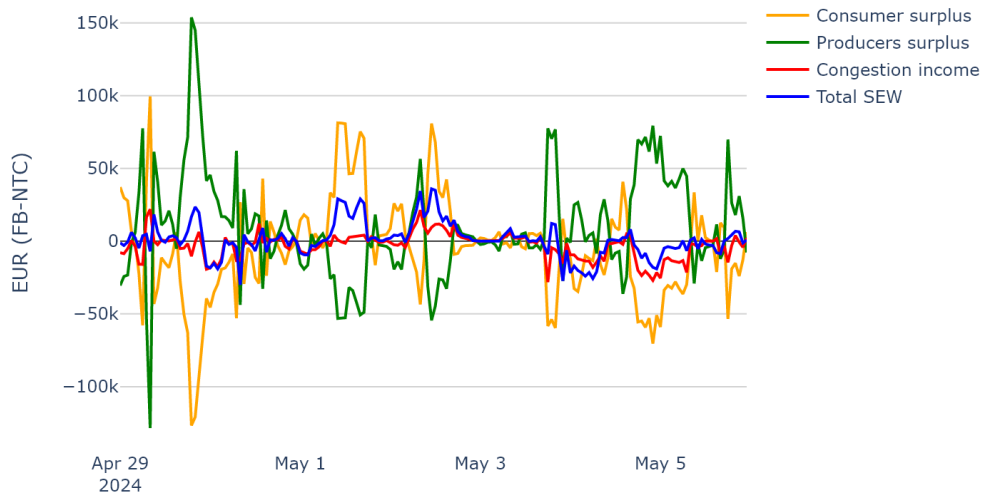


FI, socio-economic welfare per stakeholder and country



## Norway

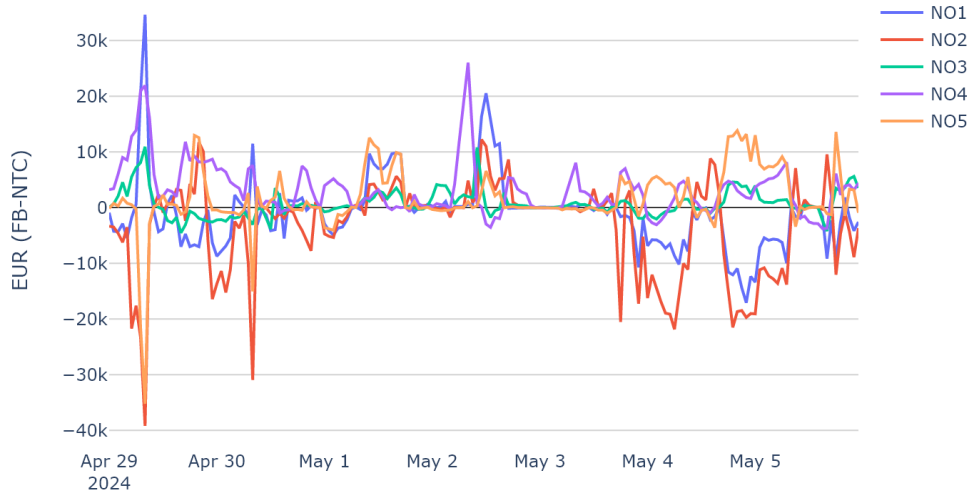
NO, socio-economic welfare per stakeholder and country



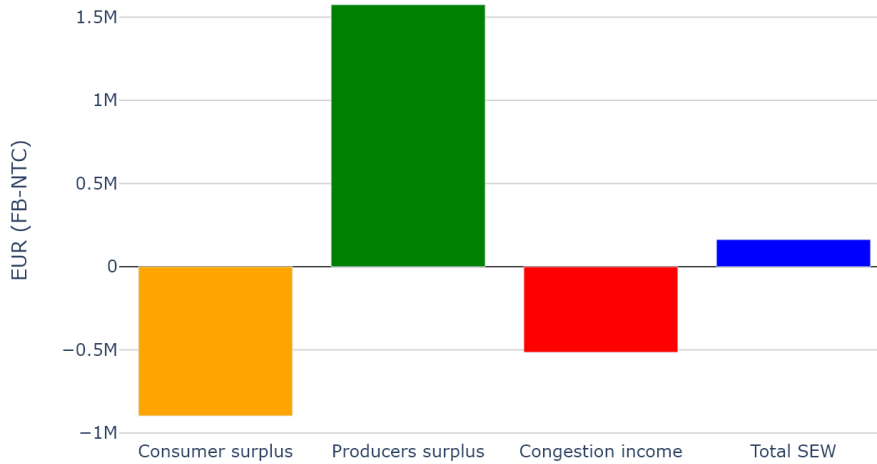




Total socio economic welfaregain FB-NTC per BZ in NO



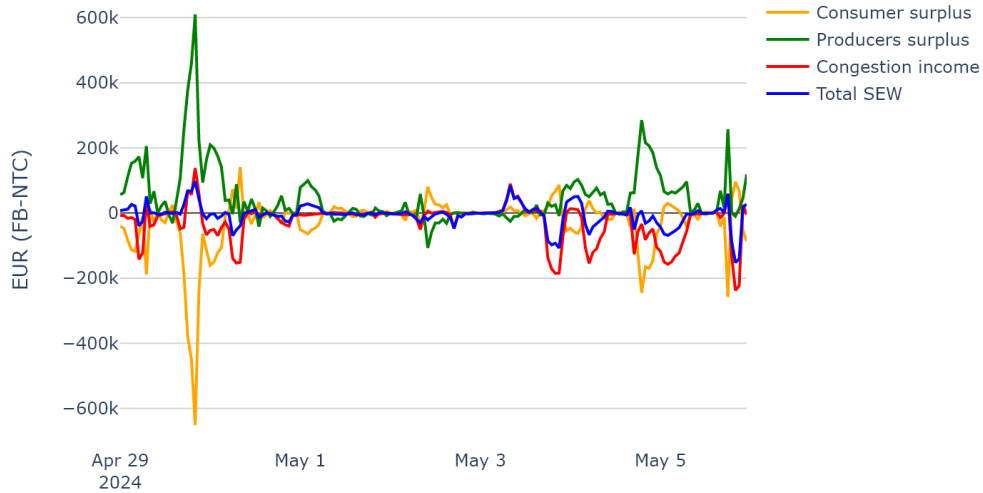
NO, socio-economic welfare per stakeholder and country



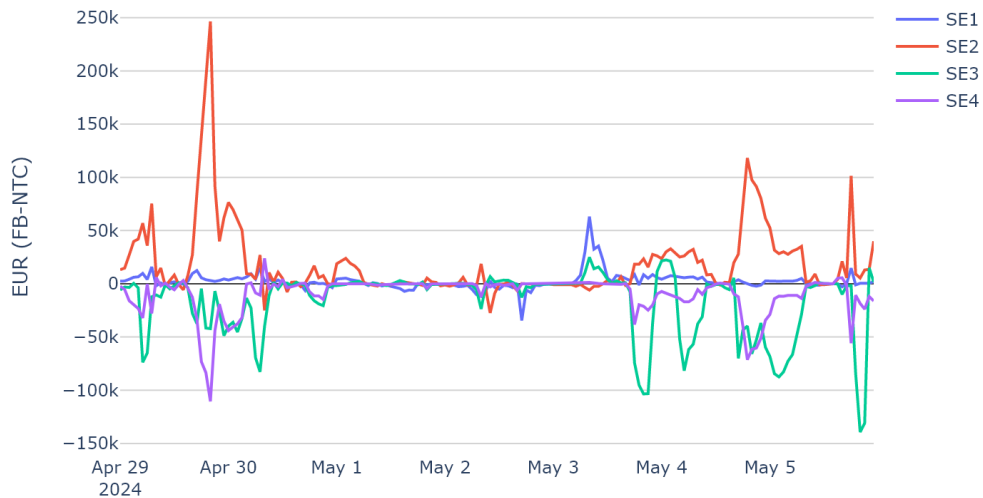


## Sweden

SE, socio-economic welfare per stakeholder and country

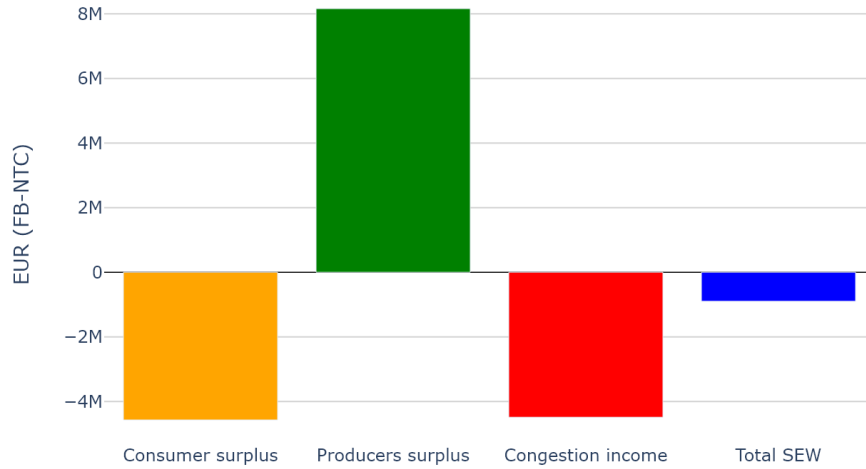


Total socio economic welfaregain FB-NTC per BZ in SE





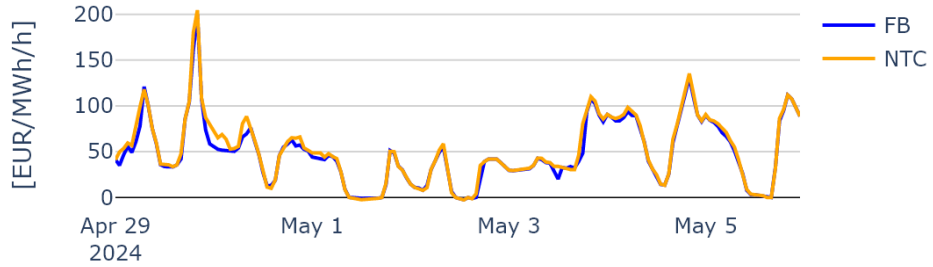
SE, socio-economic welfare per stakeholder and country



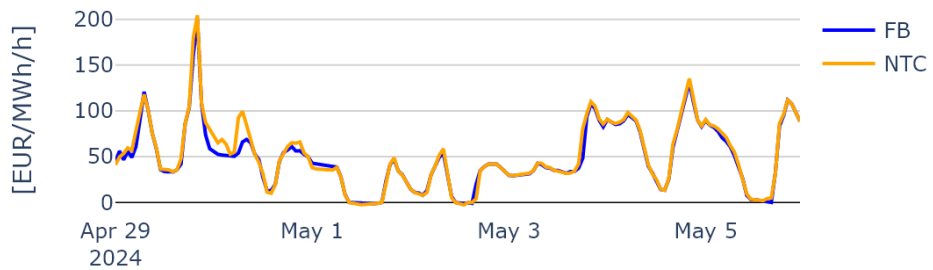


## Prices

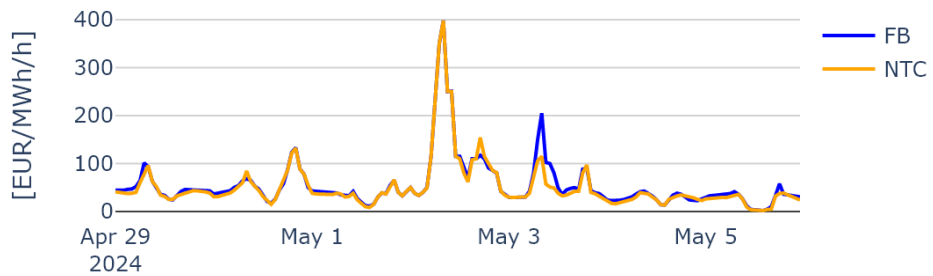
### DK1 price



### DK2 price

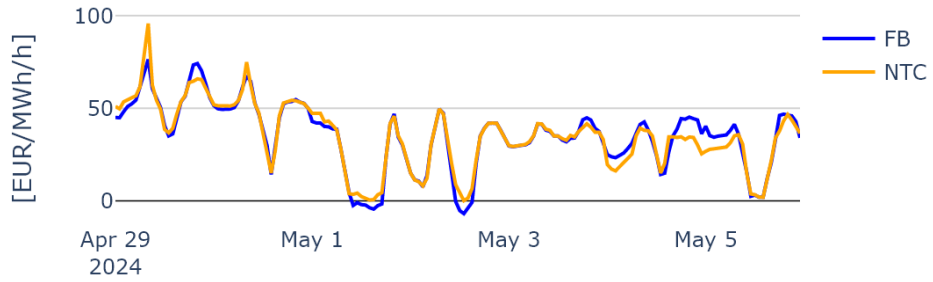


### FI price

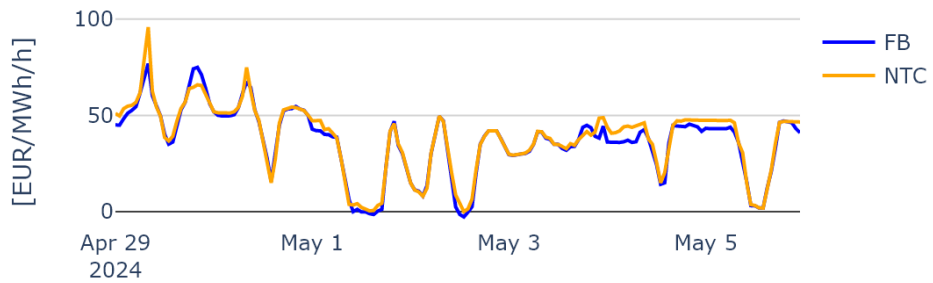




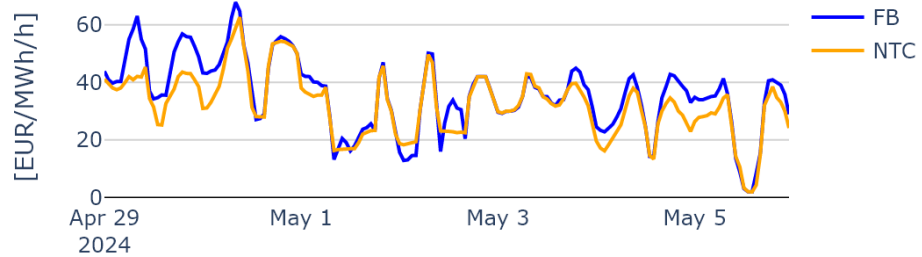
### NO1 price



### NO2 price

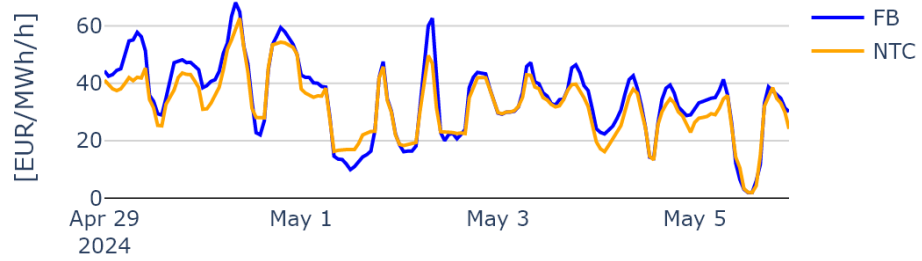


### NO3 price

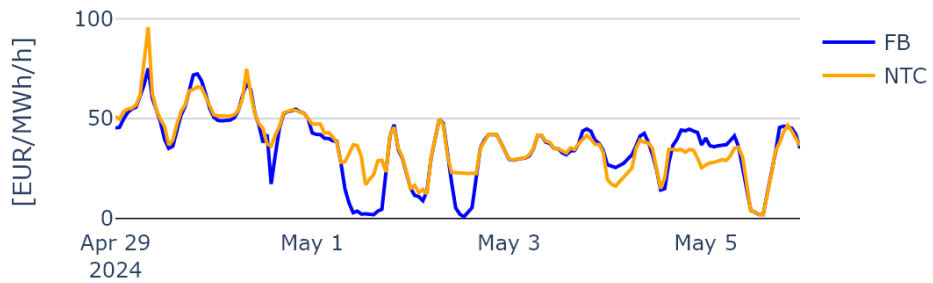




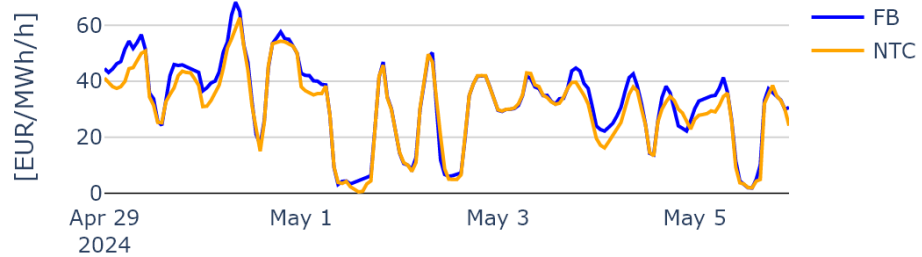
### NO4 price



### NO5 price

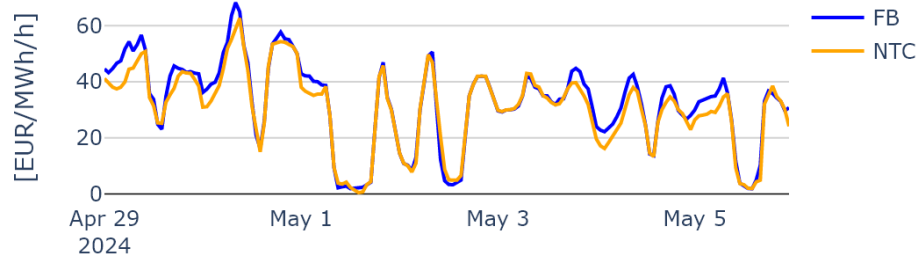


### SE1 price

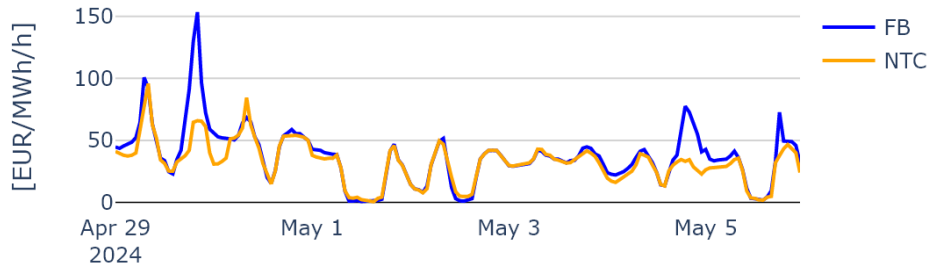




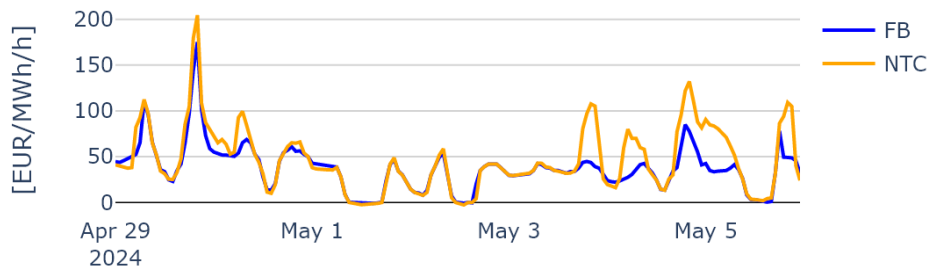
### SE2 price



### SE3 price



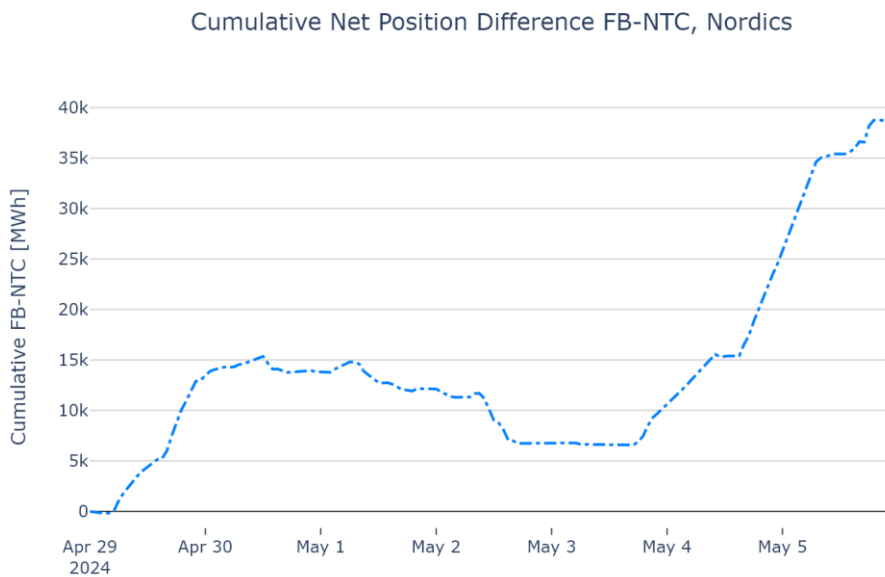
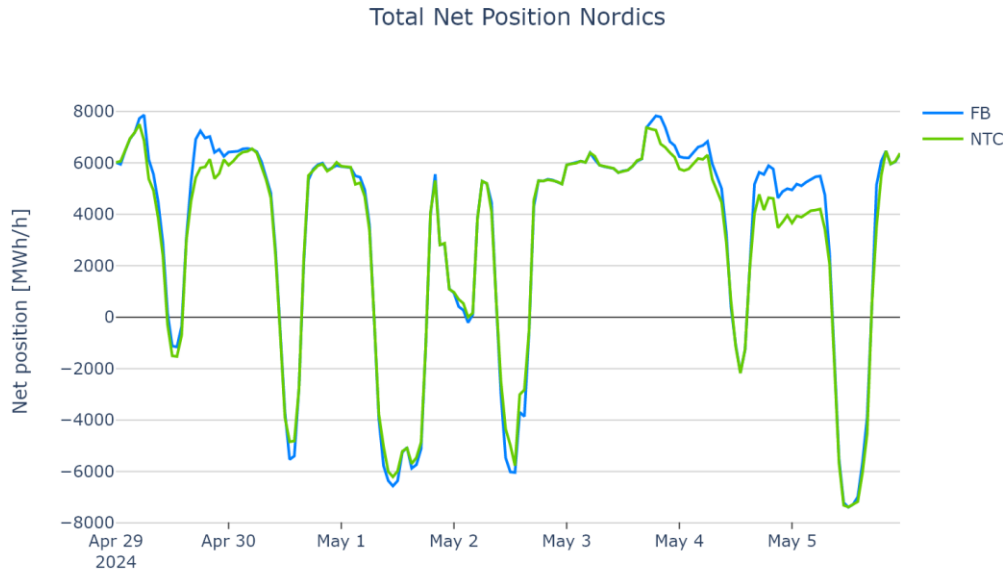
### SE4 price





## Net positions

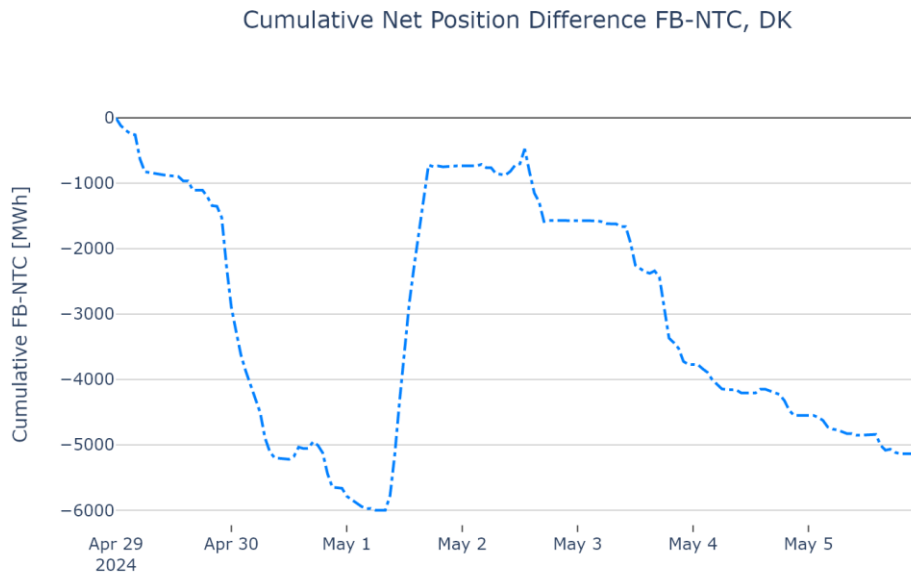
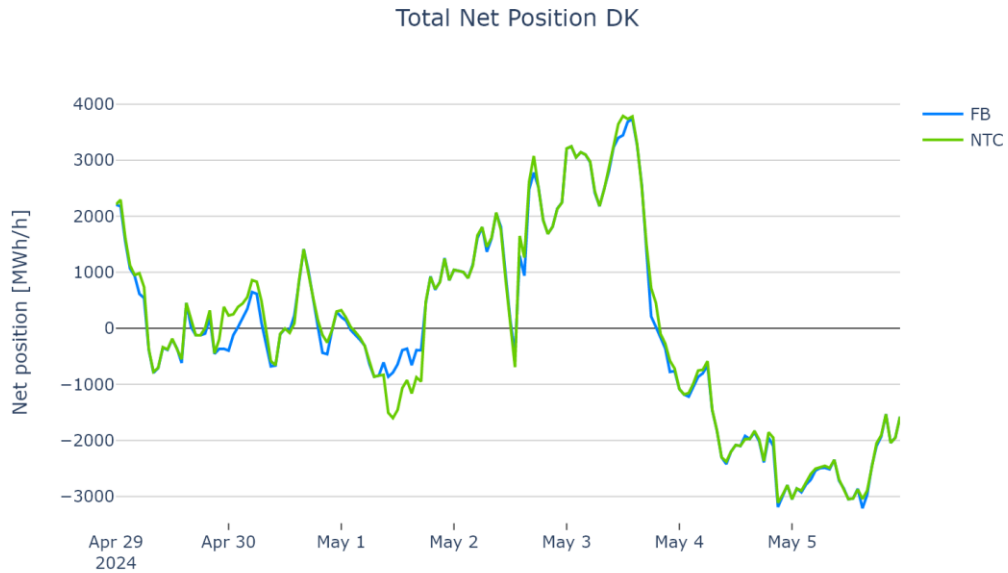
### Nordics





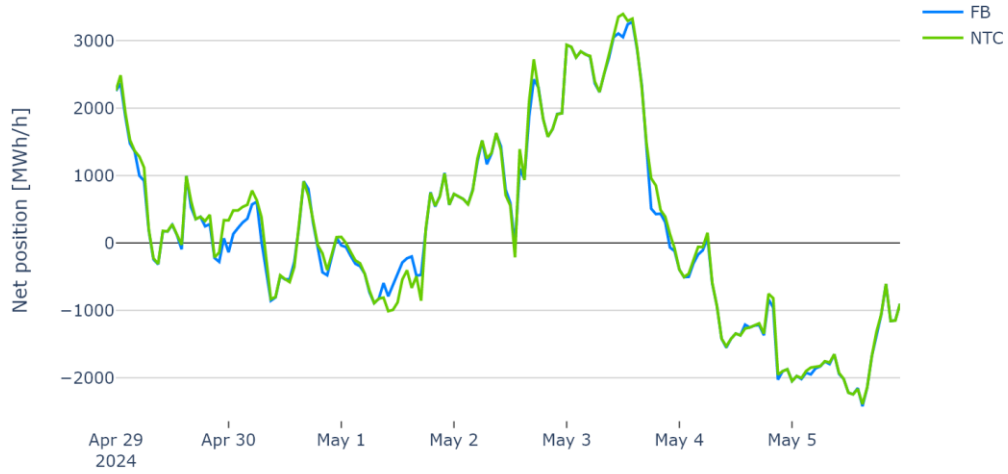


## Denmark

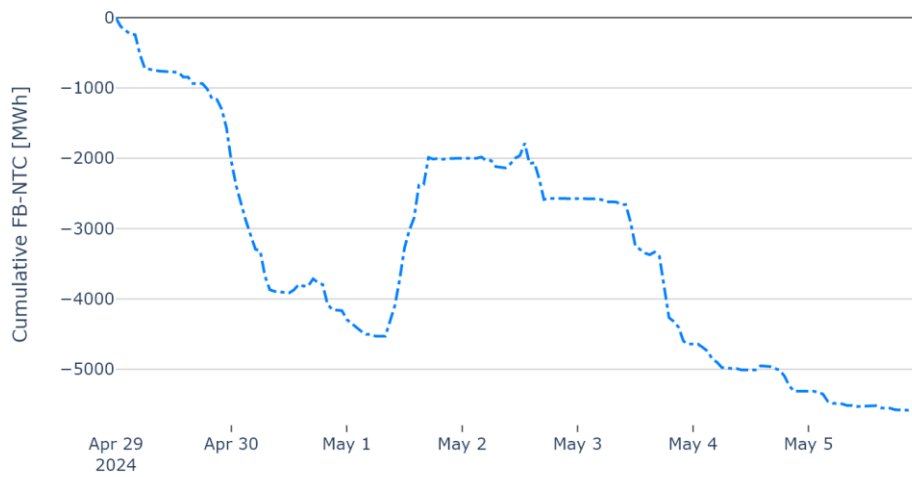


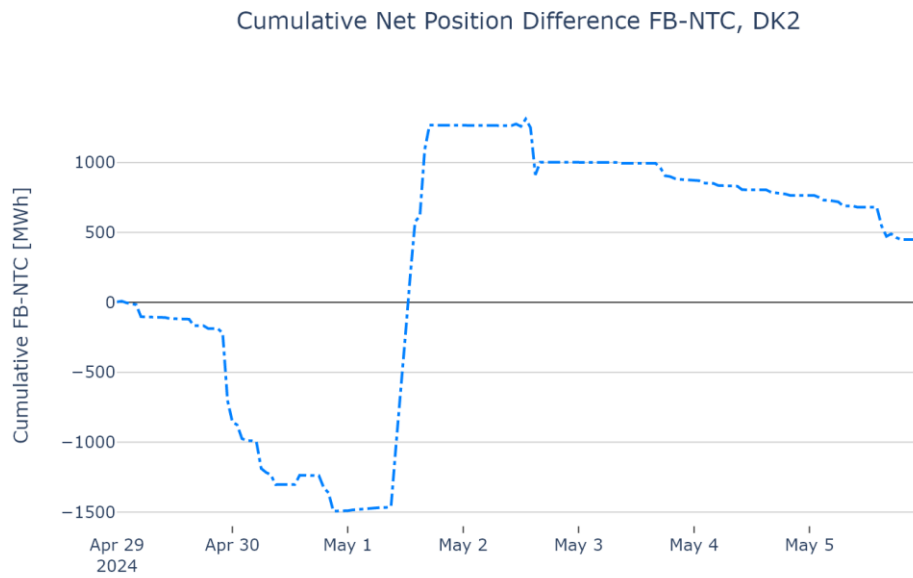
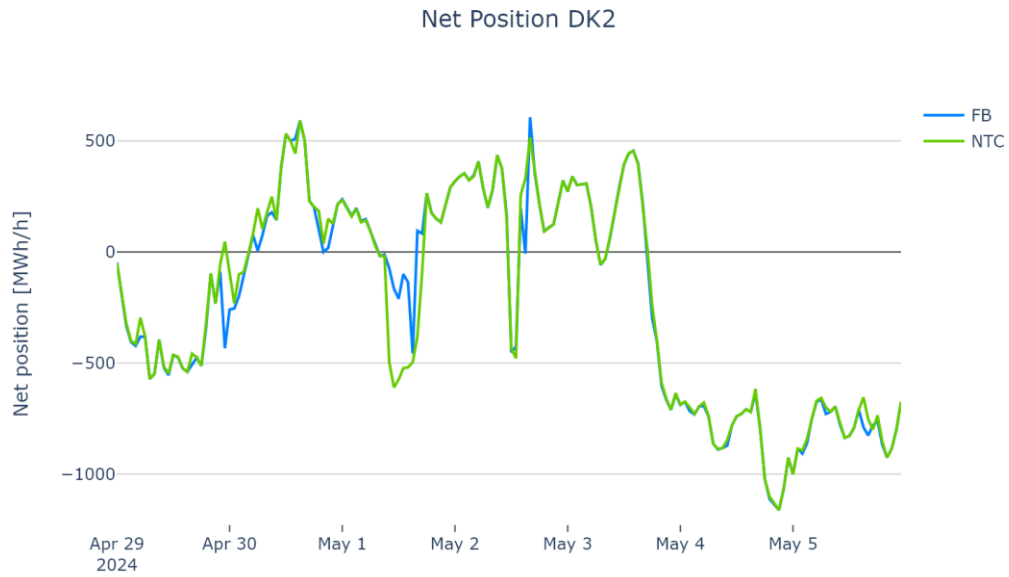


Net Position DK1



Cumulative Net Position Difference FB-NTC, DK1

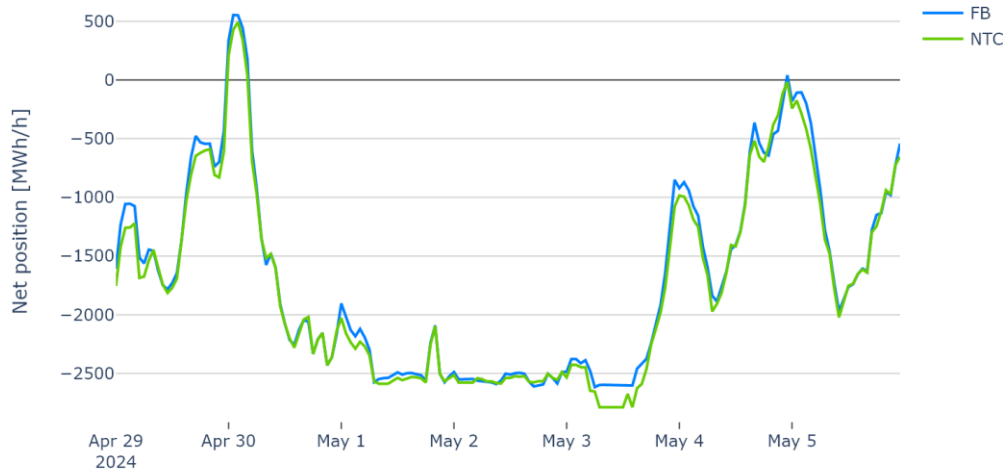




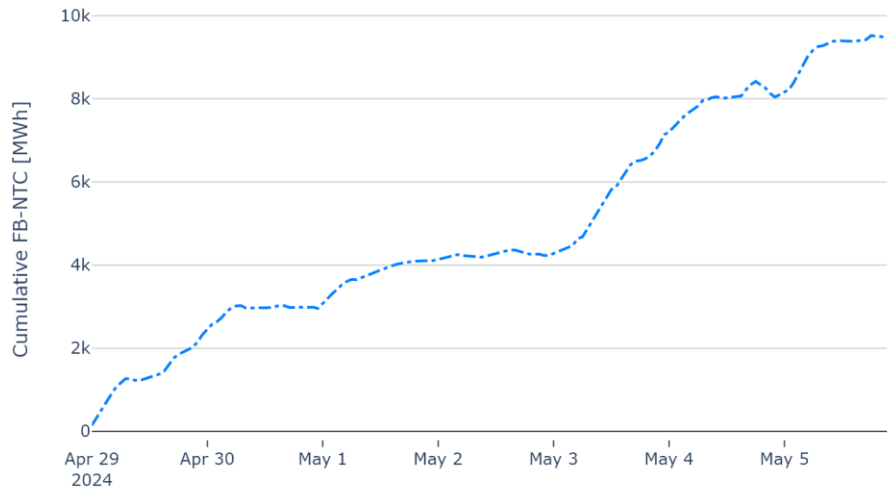


## Finland

Total Net Position FI



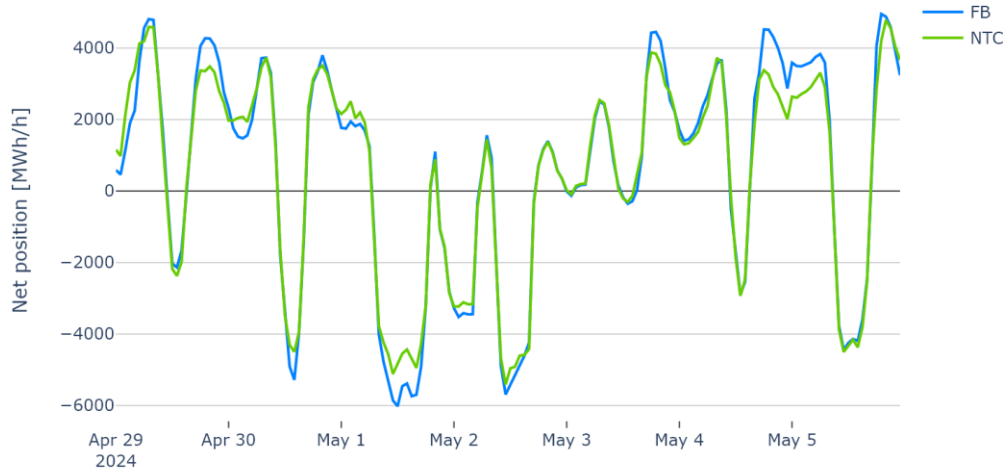
Cumulative Net Position Difference FB-NTC, FI



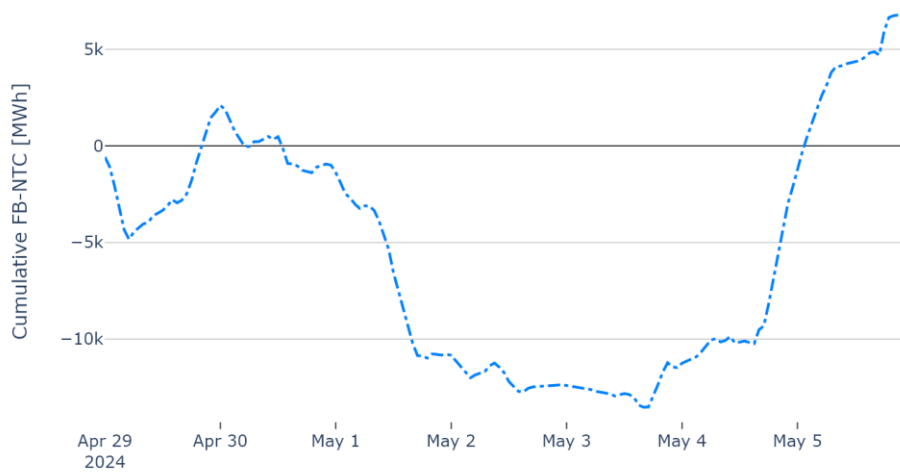


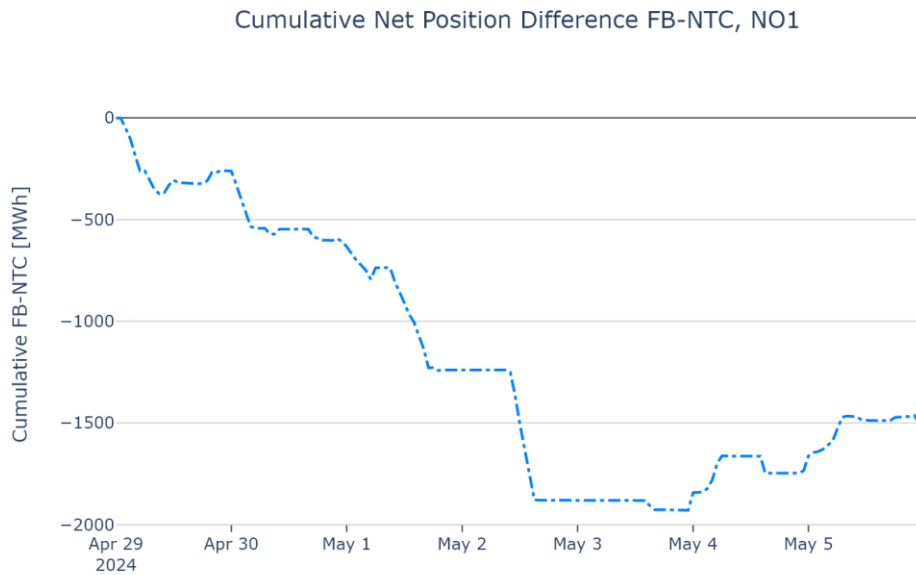
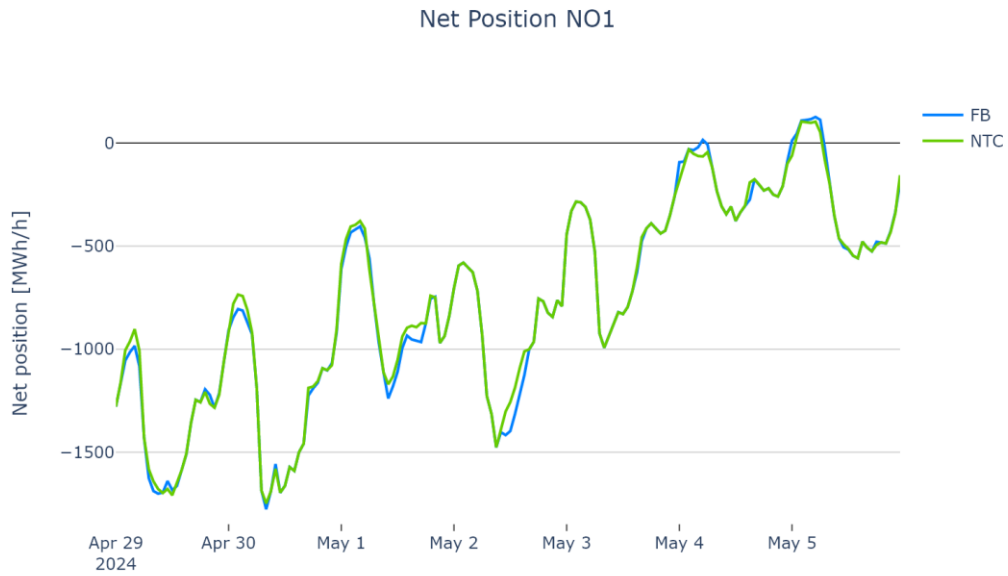
## Norway

Total Net Position NO



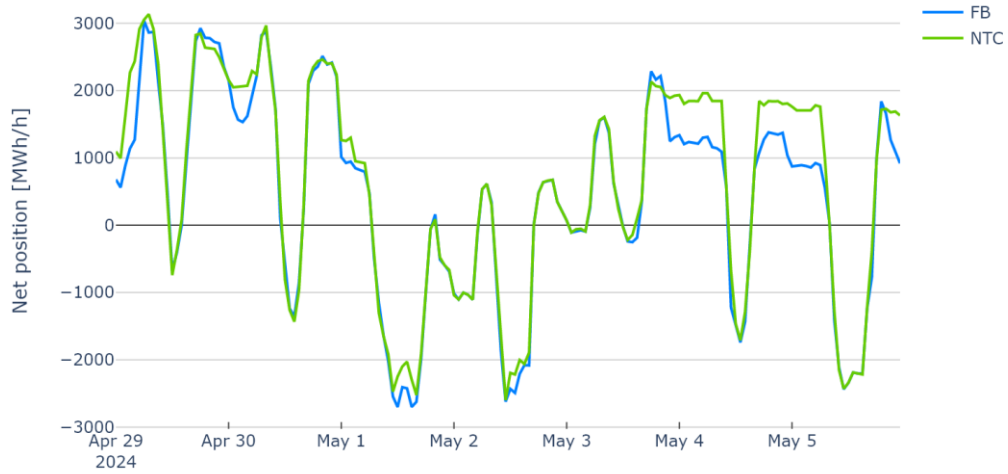
Cumulative Net Position Difference FB-NTC, NO



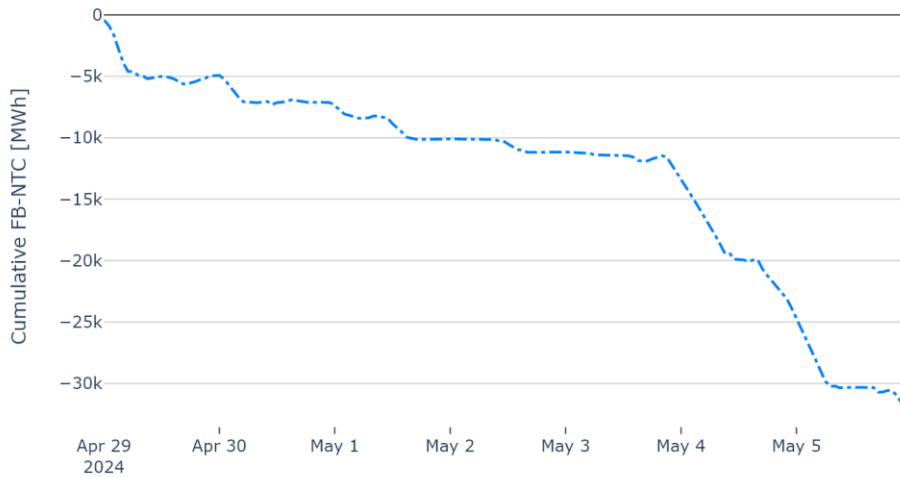




### Net Position NO2

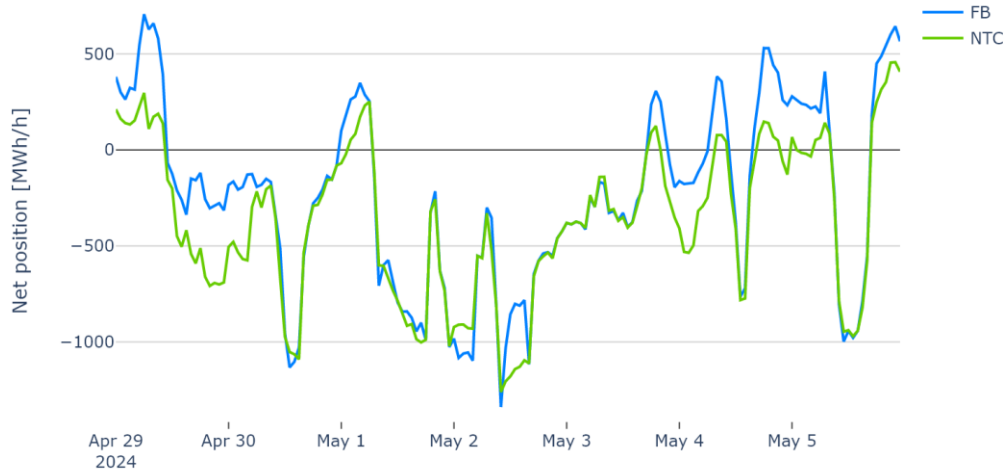


### Cumulative Net Position Difference FB-NTC, NO2





Net Position NO3



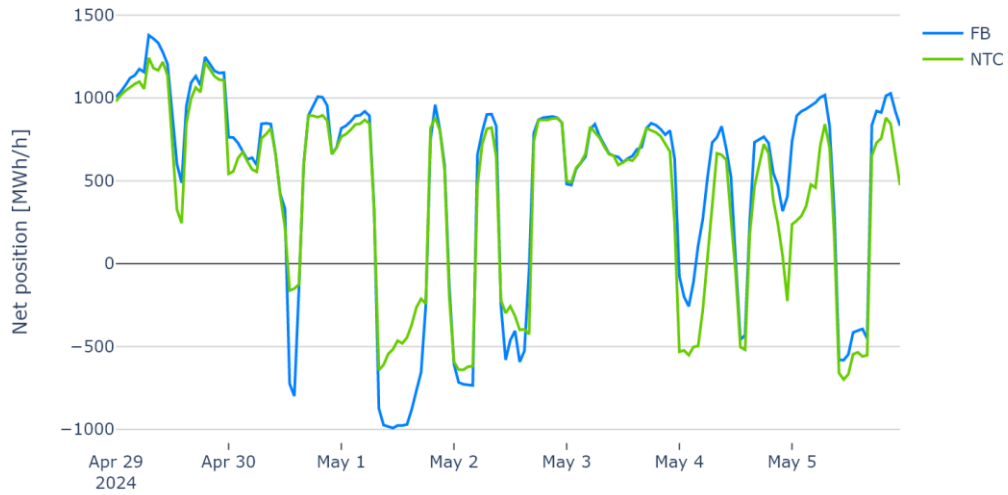
Cumulative Net Position Difference FB-NTC, NO3



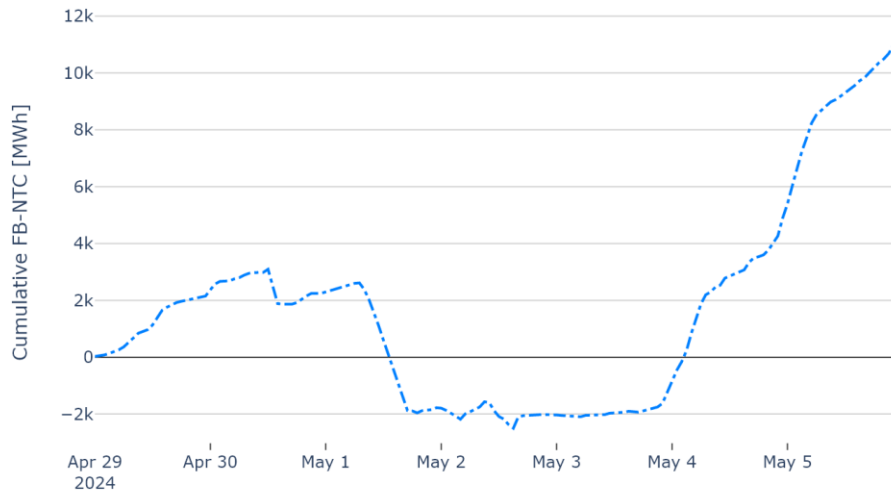




Net Position NO4

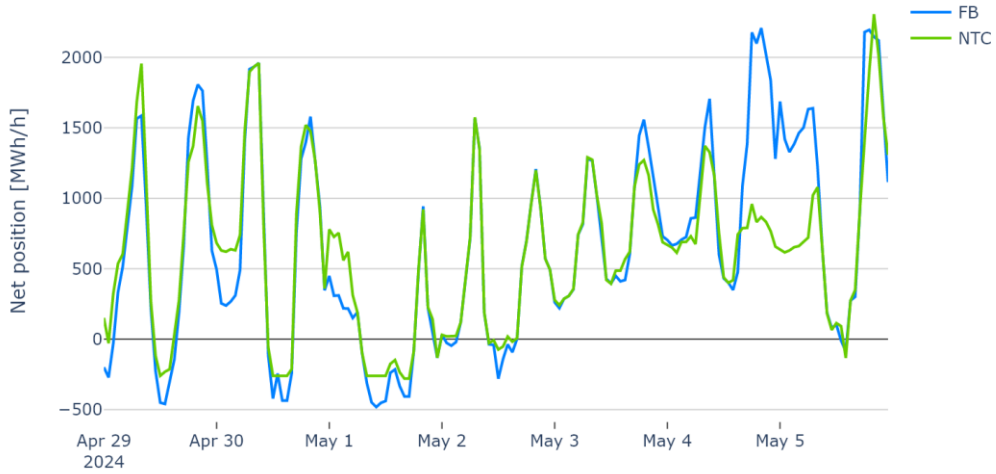


Cumulative Net Position Difference FB-NTC, NO4

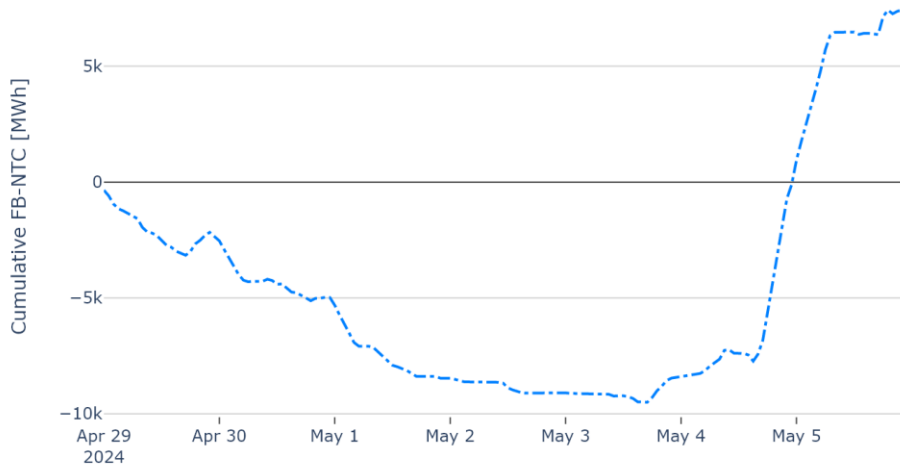




### Net Position NO5



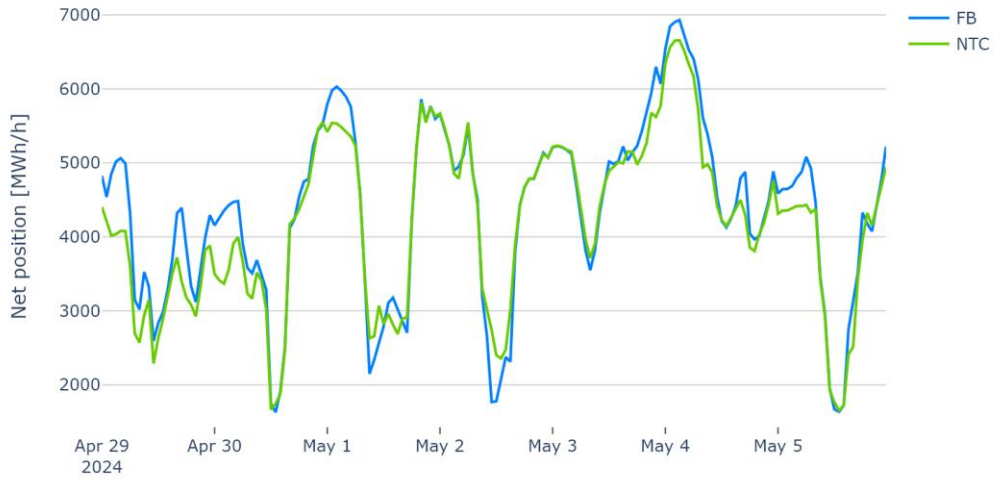
### Cumulative Net Position Difference FB-NTC, NO5



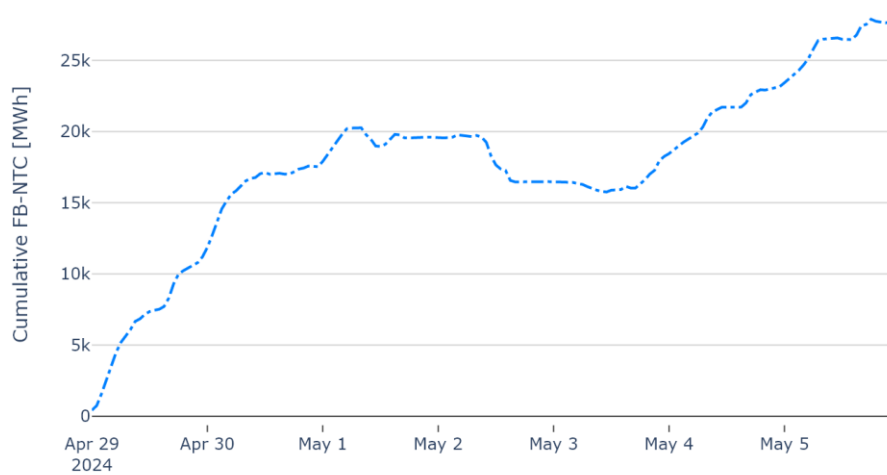


## Sweden

Total Net Position SE

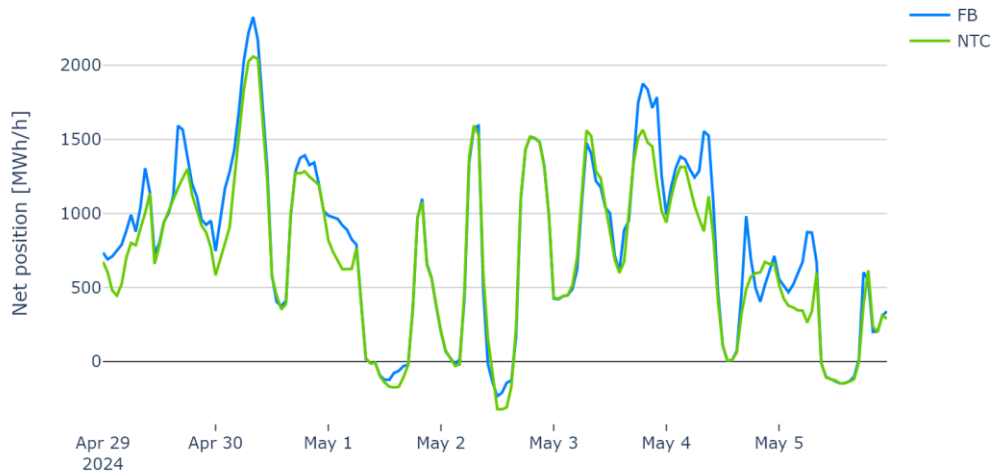


Cumulative Net Position Difference FB-NTC, SE

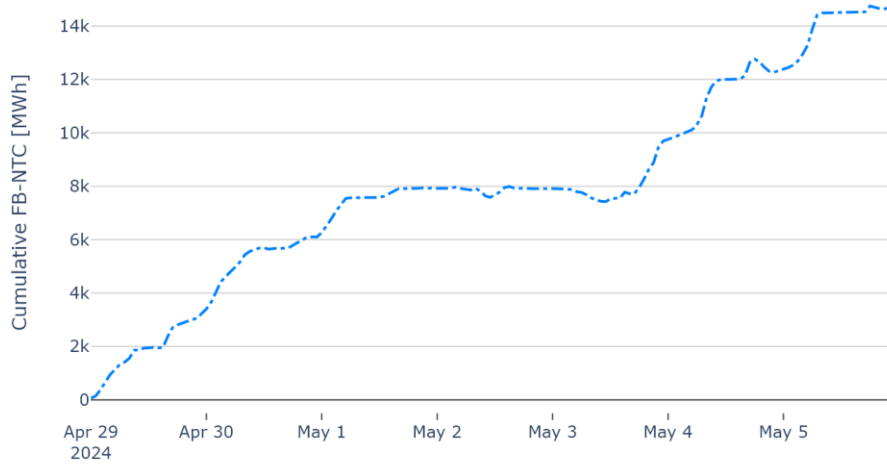




Net Position SE1

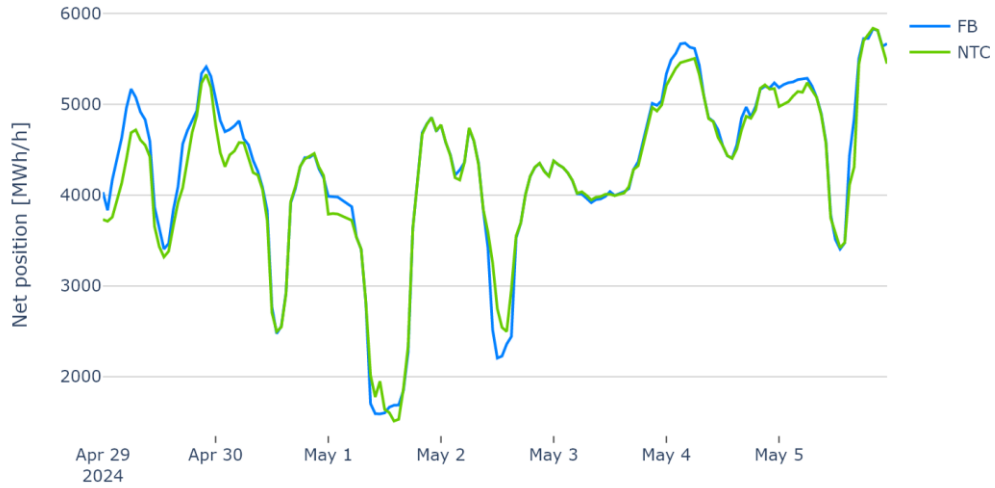


Cumulative Net Position Difference FB-NTC, SE1



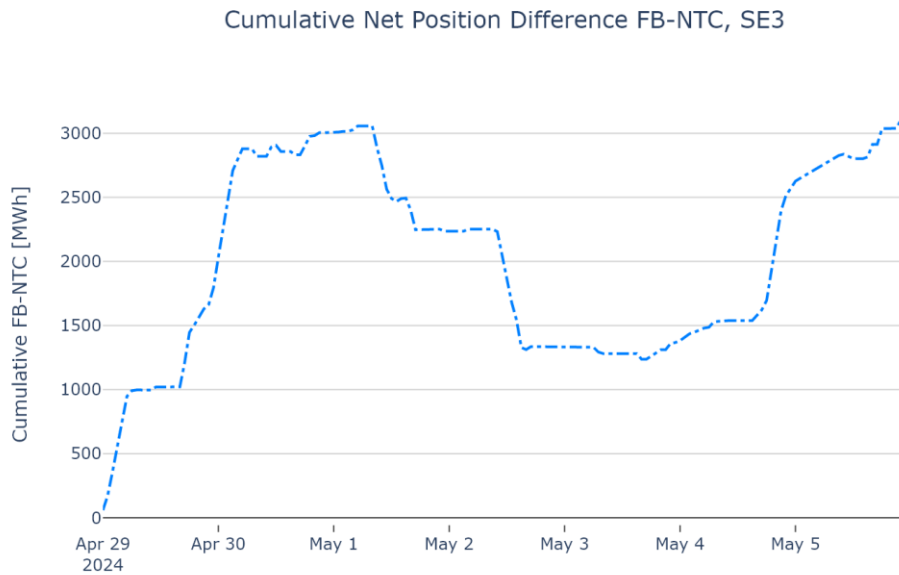
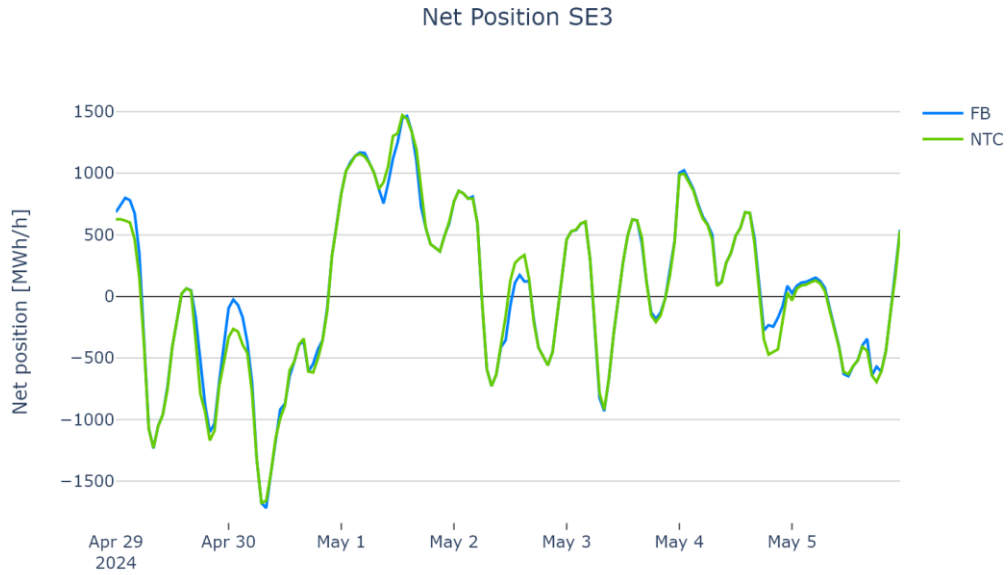


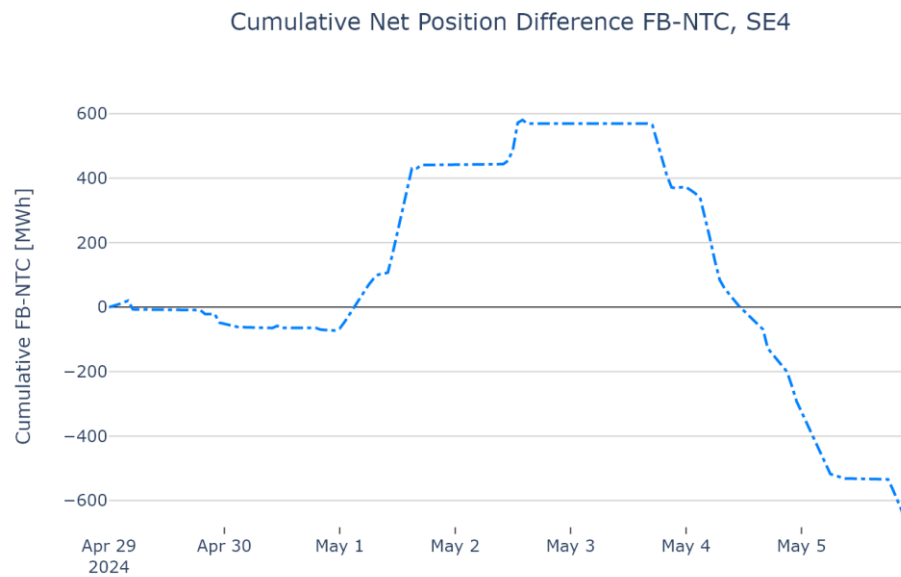
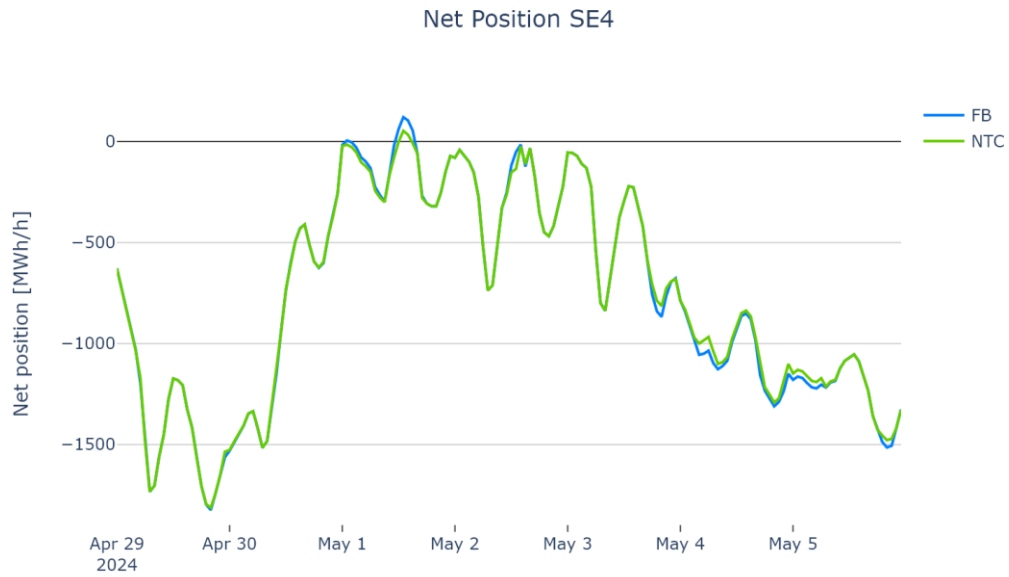
Net Position SE2



Cumulative Net Position Difference FB-NTC, SE2





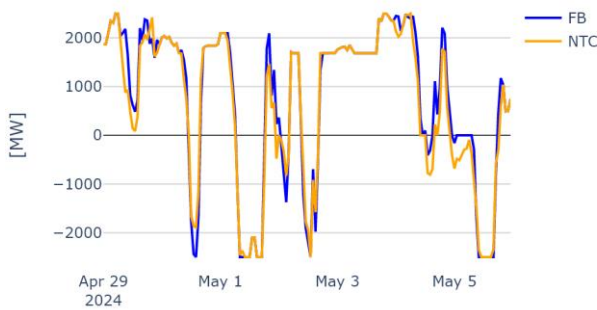




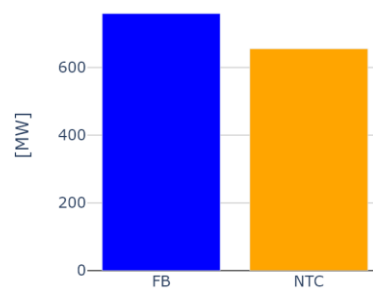
## Border flow

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.

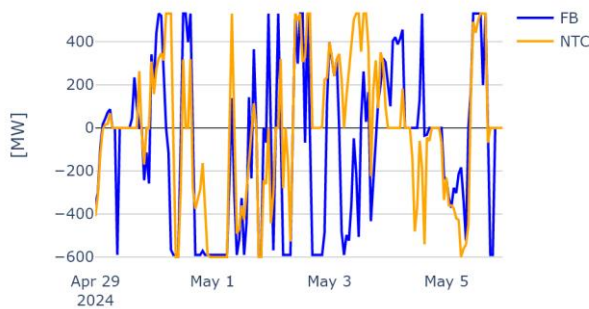
DK1 > DE/LU Physical Flow



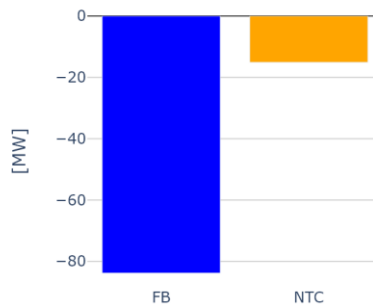
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow



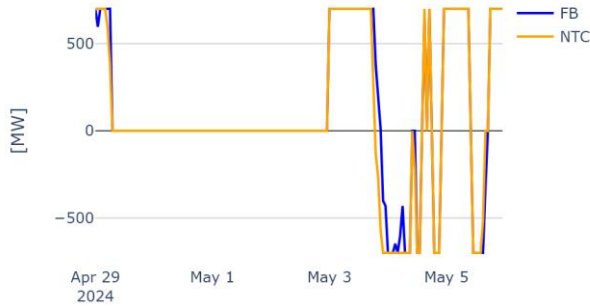
DK1 > DK2 Average flow on border



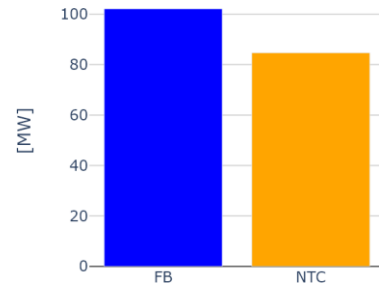




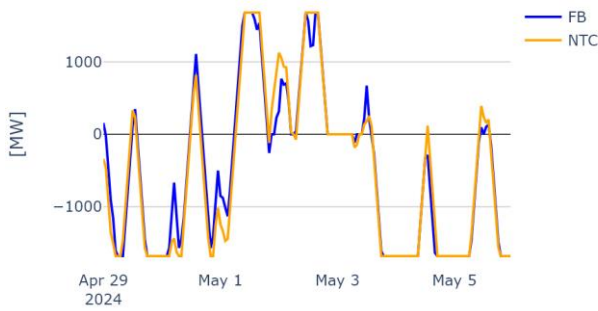
DK1 > NL Physical Flow



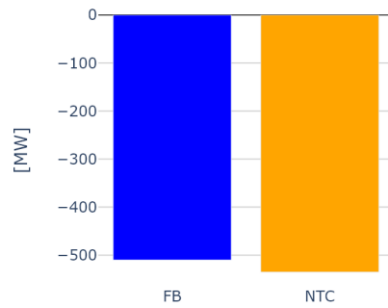
DK1 > NL Average flow on border



DK1 > NO2 Physical Flow



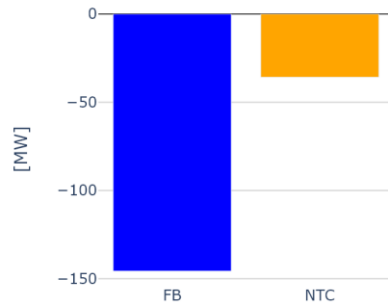
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

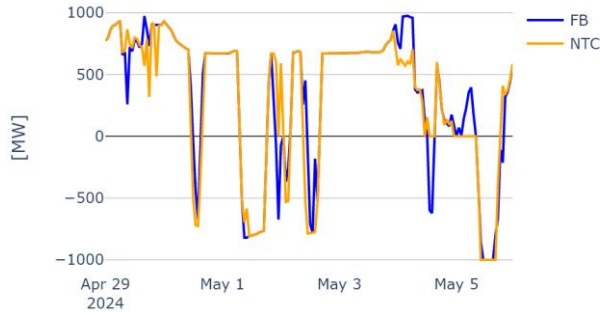


DK1 > SE3 Average flow on border

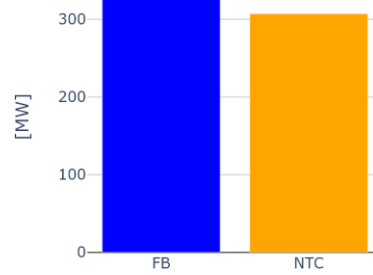




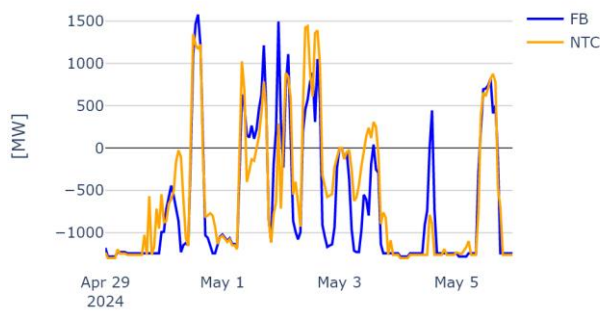
DK2 > DE/LU Physical Flow



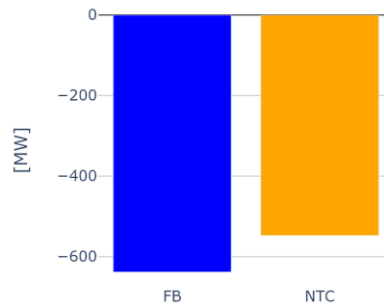
DK2 > DE/LU Average flow on border



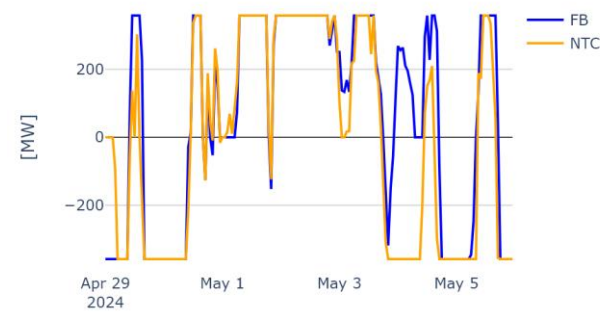
DK2 > SE4 Physical Flow



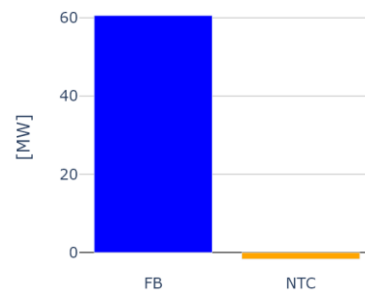
DK2 > SE4 Average flow on border



EE > FI Physical Flow

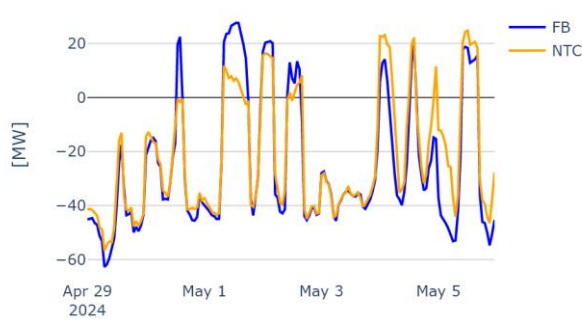


EE > FI Average flow on border

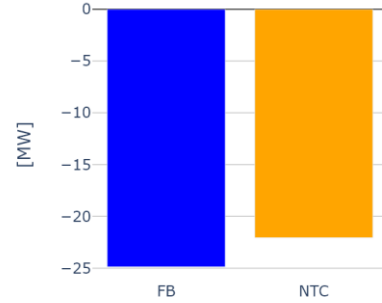




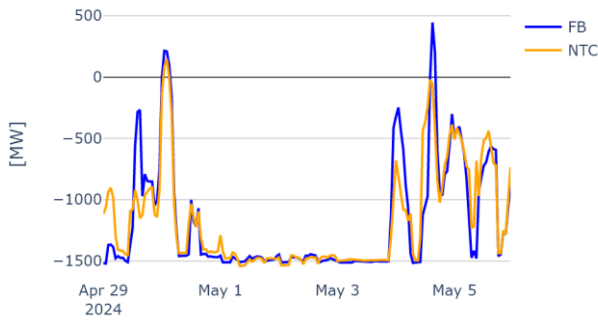
FI > NO4 Physical Flow



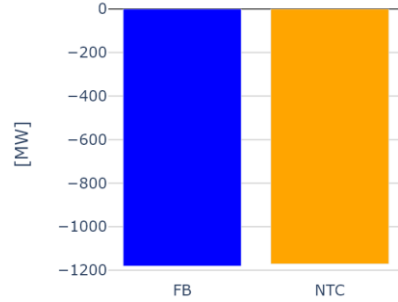
FI > NO4 Average flow on border



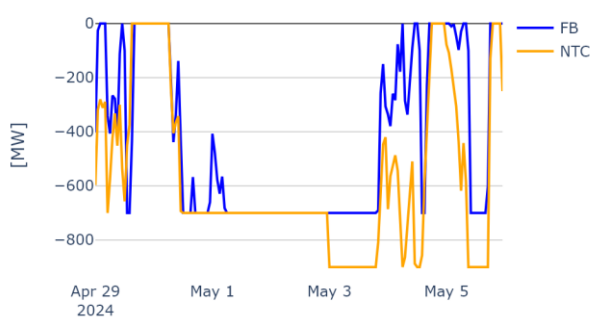
FI > SE1 Physical Flow



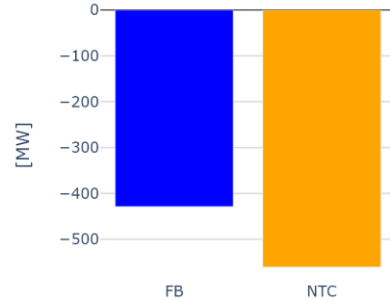
FI > SE1 Average flow on border



FI > SE3 Physical Flow

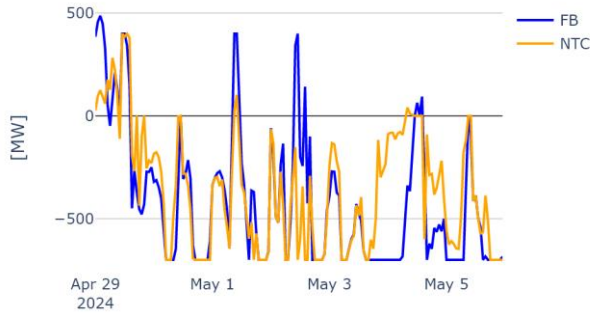


FI > SE3 Average flow on border

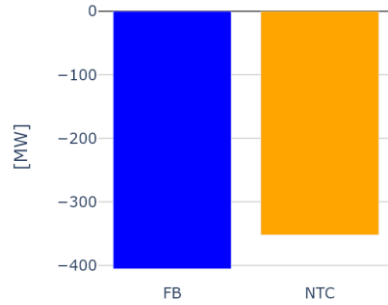




LT > SE4 Physical Flow



LT > SE4 Average flow on border



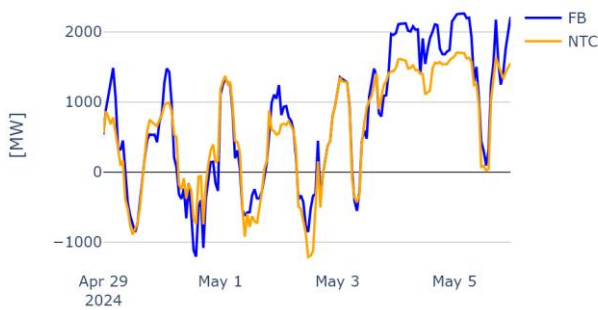
NL > NO2 Physical Flow



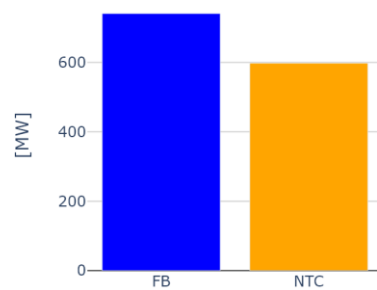
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

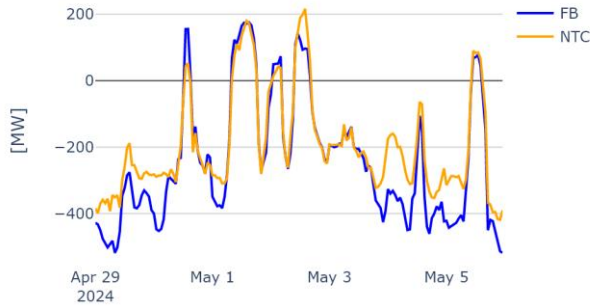


NO1 > NO2 Average flow on border

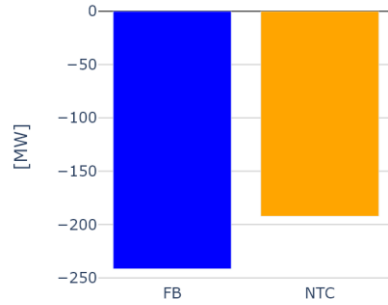




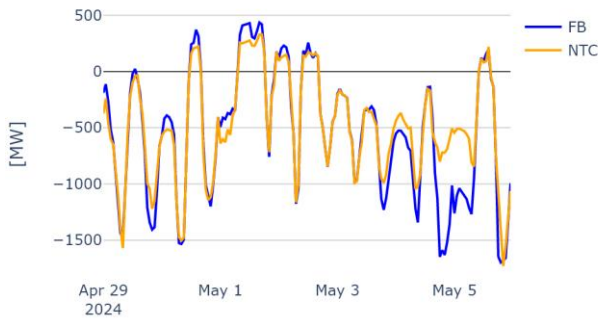
NO1 > NO3 Physical Flow



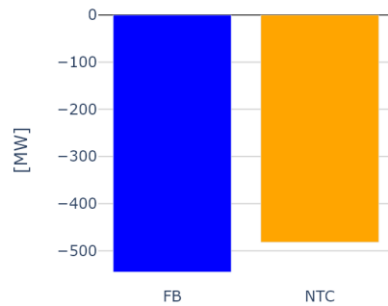
NO1 > NO3 Average flow on border



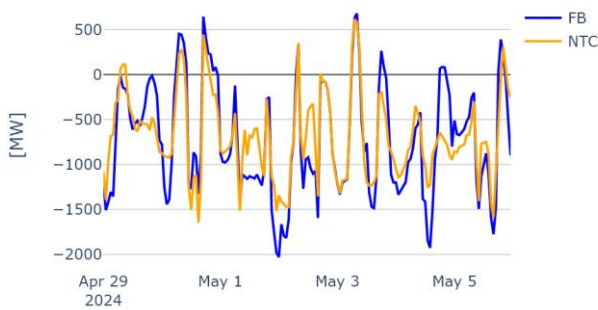
NO1 > NO5 Physical Flow



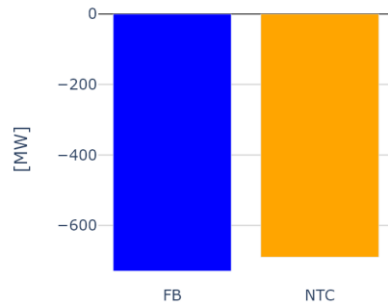
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow

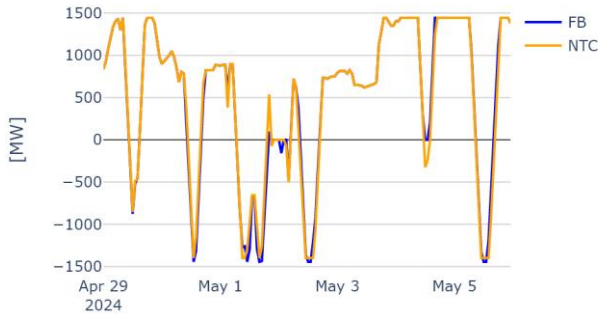


NO1 > SE3 Average flow on border

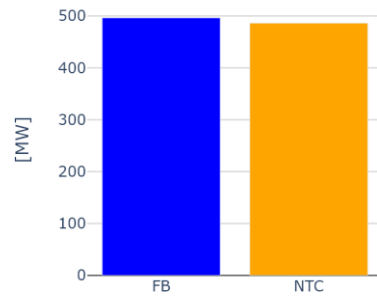




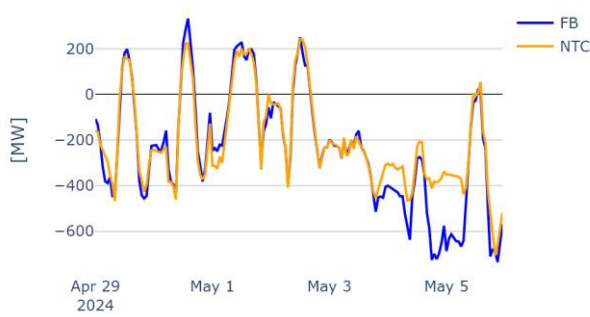
NO2 > DE/LU Physical Flow



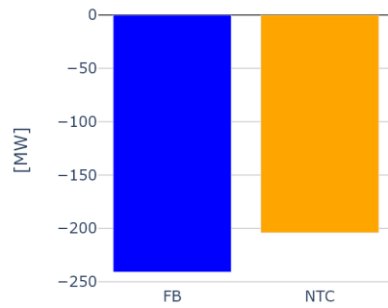
NO2 > DE/LU Average flow on border



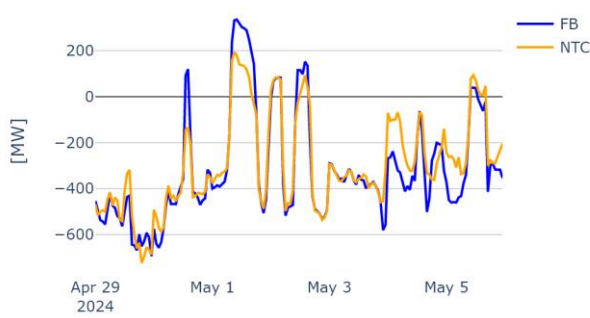
NO2 > NO5 Physical Flow



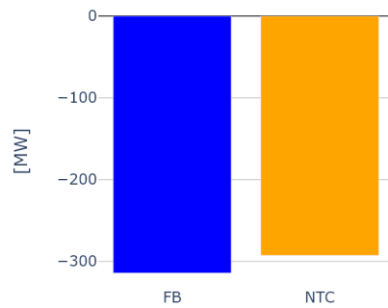
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

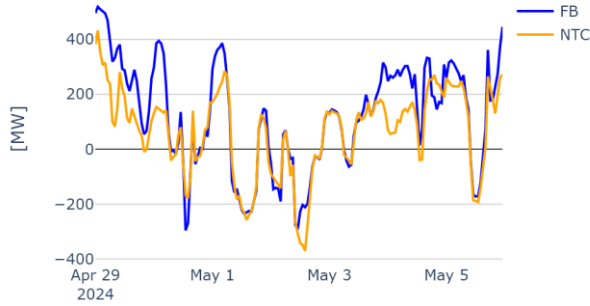


NO3 > NO4 Average flow on border

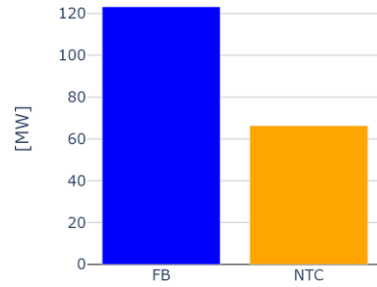




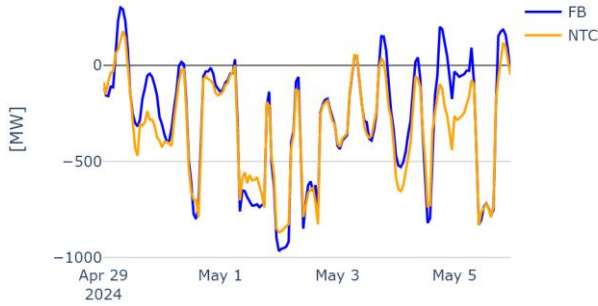
NO3 > NO5 Physical Flow



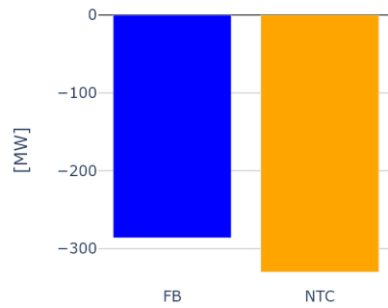
NO3 > NO5 Average flow on border



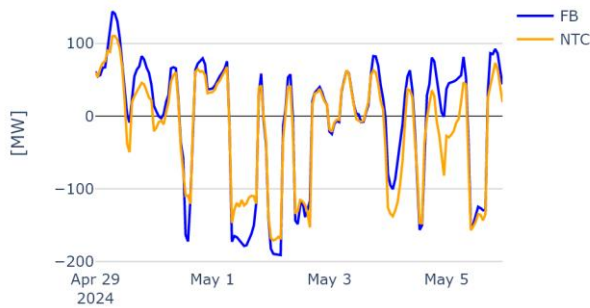
NO3 > SE2 Physical Flow



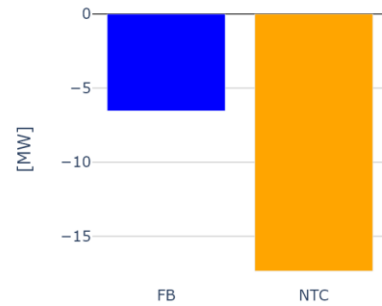
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

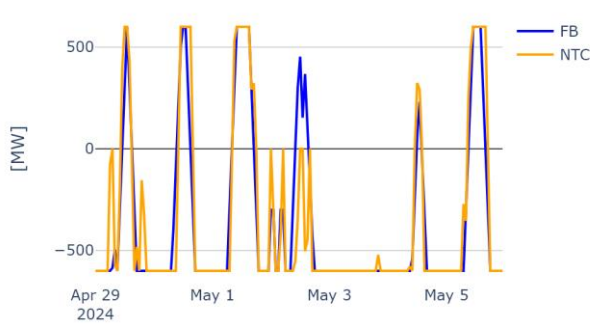


NO4 > SE2 Average flow on border

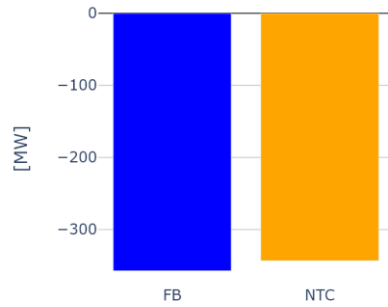




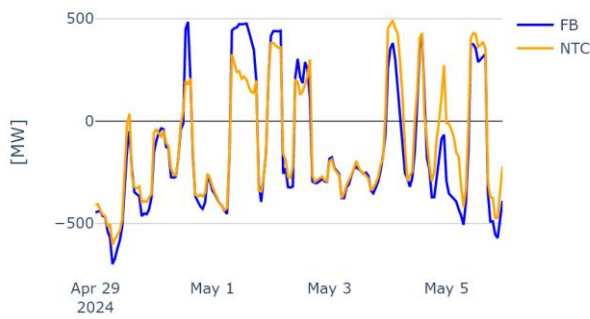
PL > SE4 Physical Flow



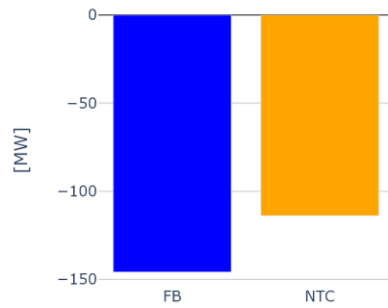
PL > SE4 Average flow on border



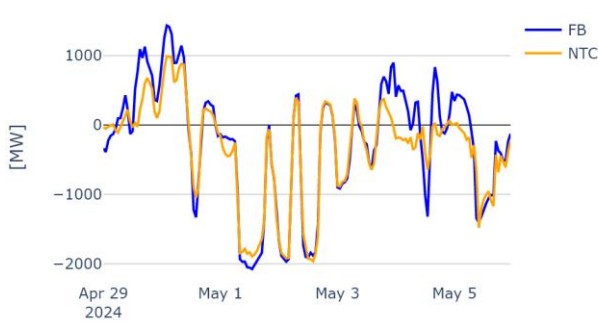
SE1 > NO4 Physical Flow



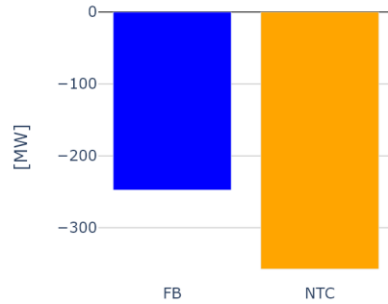
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow



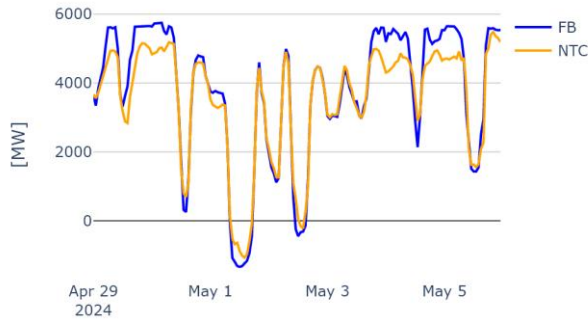
SE1 > SE2 Average flow on border



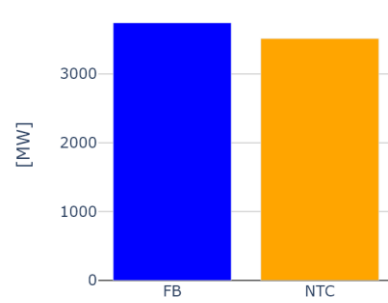




SE2 > SE3 Physical Flow



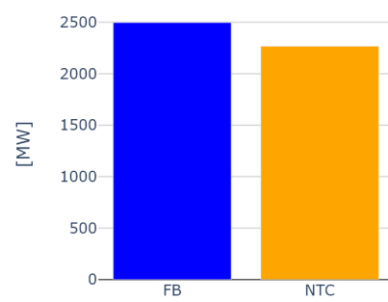
SE2 > SE3 Average flow on border



SE3 > SE4 Physical Flow



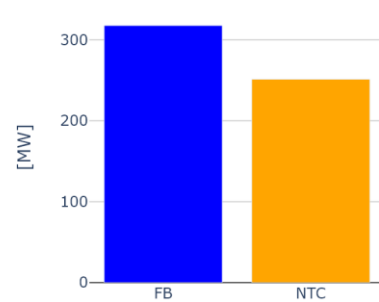
SE3 > SE4 Average flow on border



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	4452785	14
DK1 > DK2	15700	0
DK1 > NL	779869	7
DK1 > NO2	3476198	14
DK1 > SE3	1435605	12
DK2 > DE/LU	1656377	13
DK2 > SE4	2395588	11
EE > FI	1547203	26
FI > NO4	89394	10
FI > SE1	5524395	22
FI > SE3	2551789	22
LT > SE4	848349	7
NL > NO2	3460970	35
NO1 > NO2	352781	1
NO1 > NO3	179142	4
NO1 > NO5	28826	1
NO1 > SE3	64988	-1
NO2 > DE/LU	4844497	27
NO2 > NO5	93824	1
NO3 > NO4	-1994	0
NO3 > NO5	154448	4
NO3 > SE2	263281	2
NO4 > SE2	31730	1
PL > SE4	2508816	26
SE1 > NO4	28194	0
SE1 > SE2	48298	0
SE2 > SE3	4646800	5
SE3 > SE4	472628	1
SE4 > DE/LU	2347794	24



## 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	1	-1930	-4
DK1 > DK2	4	-25341	-10
DK1 > NL	0	0	0
DK1 > NO2	14	-70262	-6
DK1 > SE3	11	-11199	-4
DK2 > DE/LU	4	-1227	-2
DK2 > SE4	4	-384	0
EE > FI	1	-16	0
FI > NO4	35	-11845	-16
FI > SE1	2	-67	0
FI > SE3	4	-386	0
LT > SE4	11	-7214	-1
NL > NO2	3	-6799	-6
NO1 > NO2	14	-22293	-2
NO1 > NO3	20	-3923	-1
NO1 > NO5	23	-27129	-1
NO1 > SE3	26	-112107	-9
NO2 > DE/LU	5	-20681	-4
NO2 > NO5	19	-3612	-1
NO3 > NO4	43	-74462	-3
NO3 > NO5	12	-5907	-2
NO3 > SE2	17	-15735	-4
NO4 > SE2	36	-7181	-2
PL > SE4	11	-138826	-18
SE1 > NO4	45	-52217	-2
SE1 > SE2	30	-12796	-1
SE2 > SE3	8	-6663	0
SE3 > SE4	11	-19712	-1
SE4 > DE/LU	1	-248	-16