



Nordic Capacity Calculation Methodology Project (Nordic CCM)

# Nordic CCM

External Parallel Run Market Report  
Appendix for Week 9 of 2024



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## Domain validation

Energy Delivery Day:	Mon. 26.02.	Tue. 27.02.	Wed. 28.02.	Thu. 29.02.	Fri. 01.03.	Sat. 02.03.	Sun. 03.03.
<b>Invalid/missing IGMs</b>	0	0	0	0	0	0	0
<b>Substituted IGMs</b>	0	0	0	0	0	0	0
<b>Invalid CGMs</b>	0	0	0	0	0	0	0
<b>FB domain back-up</b>	0	0	0	0	0	0	0
<b>FAV provision</b>	0	0	2	0	0	0	0
<b>Final domain acceptance (1 TSO =25%)</b>	100%	100%	100%	100%	100%	100%	100%

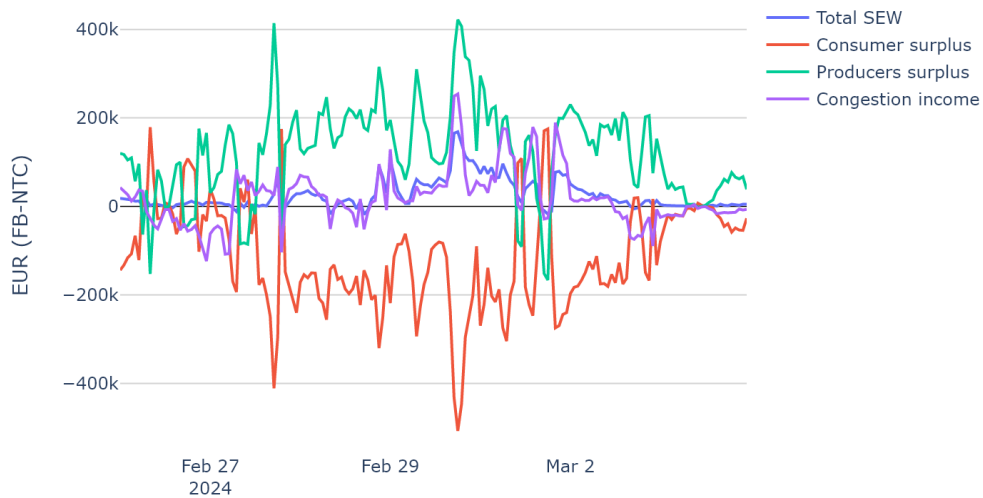


## Socio Economic Welfare

For the socio-economic welfare graphs, the contribution from interconnectors out of the Nordic CCR is not included. Thus, the values for the congestion income are only from the Nordic internal bidding zones, and not from the contributions on the Hansa/Baltic borders. This includes the country specific socio-economic welfare graphs.

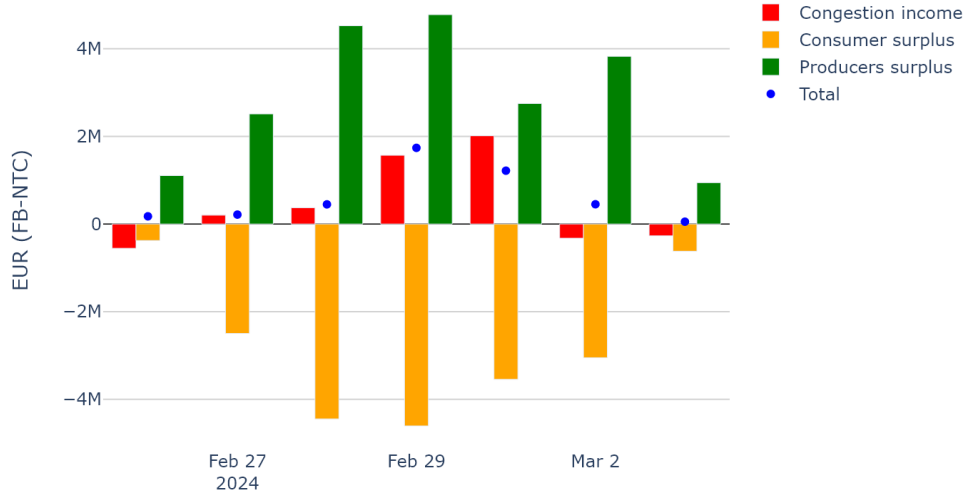
### Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

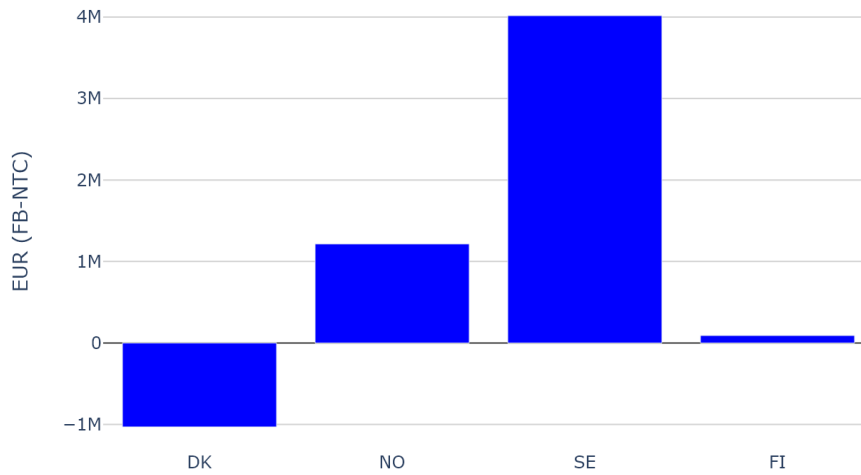




Nordics socio-economic welfare per stakeholder and day

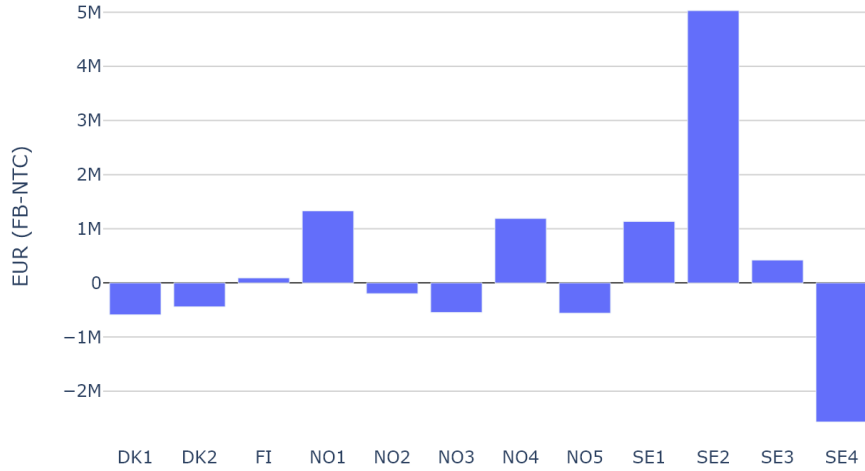


Total Nordic socio-economic welfare per country





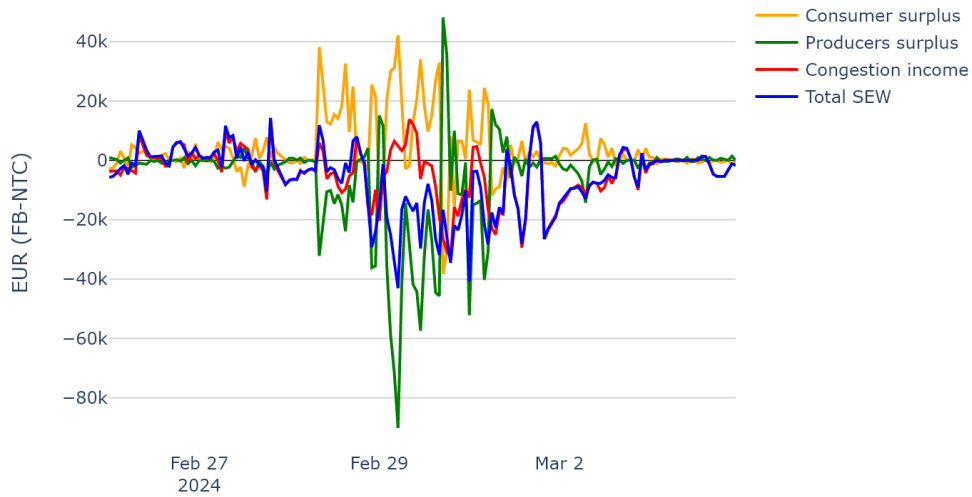
Socio economic welfaregain FB-NTC per BZ - Total\_sew



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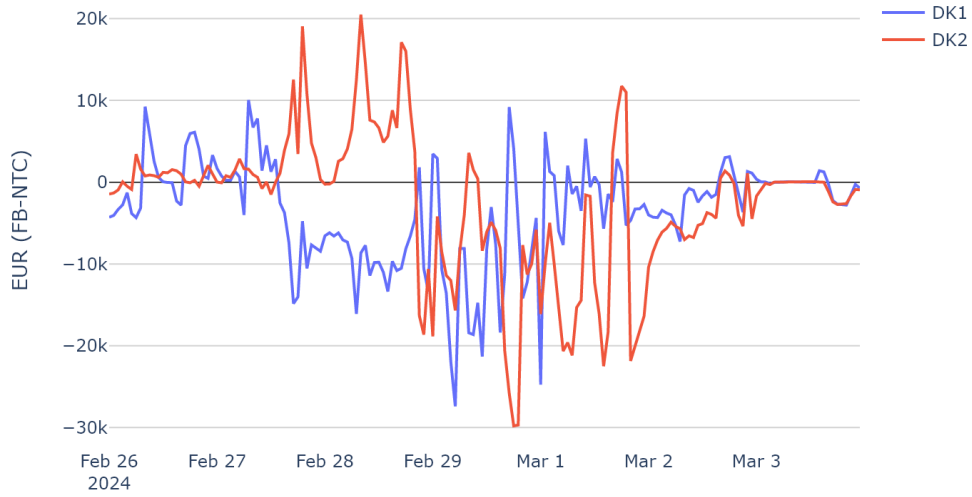
## Denmark

DK, socio-economic welfare per stakeholder and country

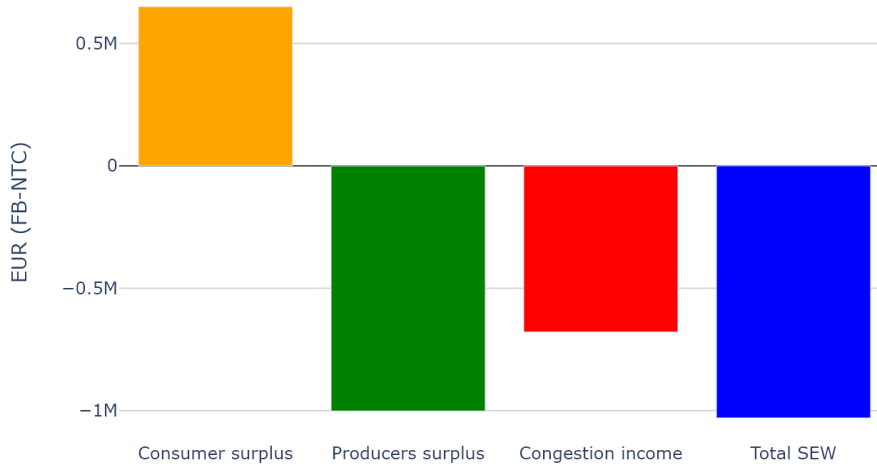




Total socio economic welfaregain FB-NTC per BZ in DK



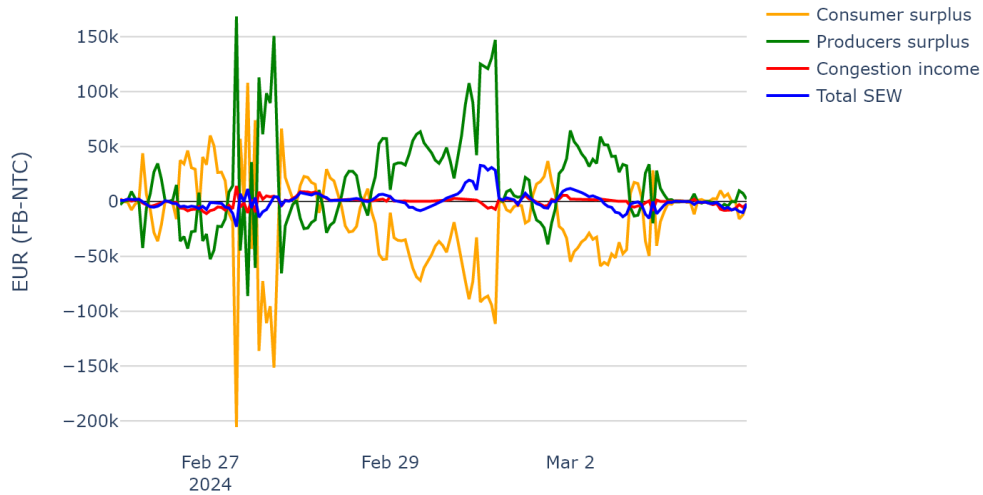
DK, socio-economic welfare per stakeholder and country



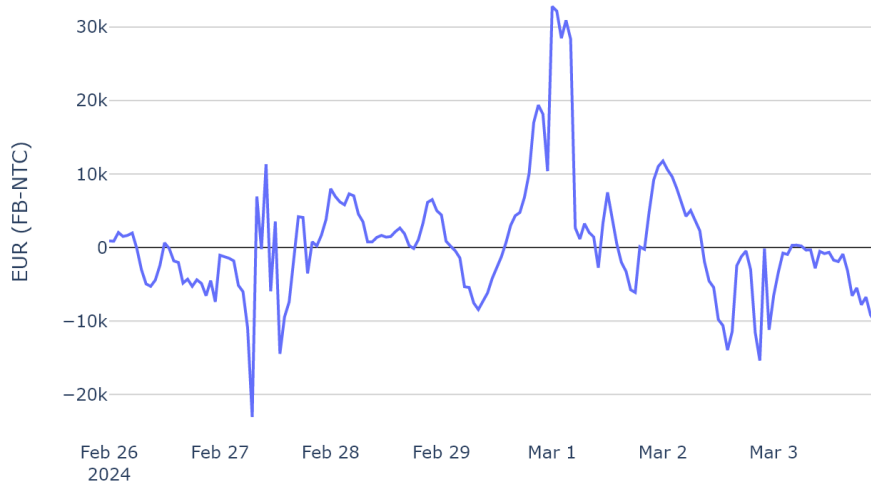


## Finland

FI, socio-economic welfare per stakeholder and country

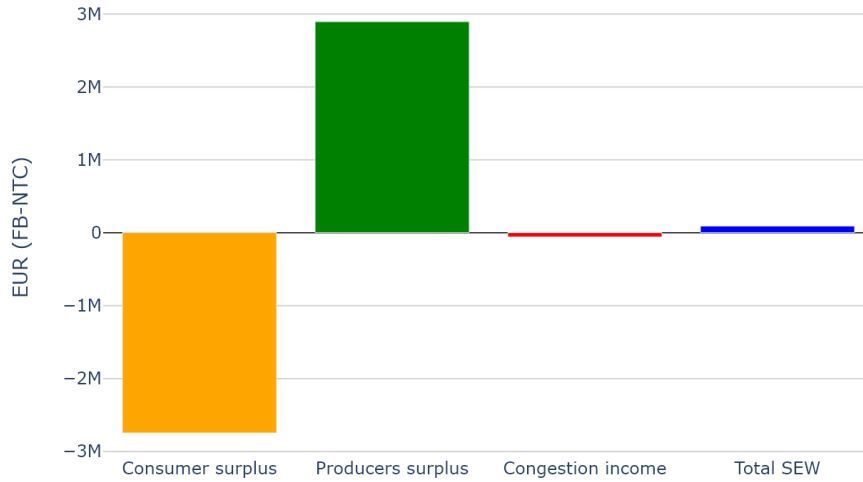


Total socio economic welfaregain FB-NTC per BZ in FI



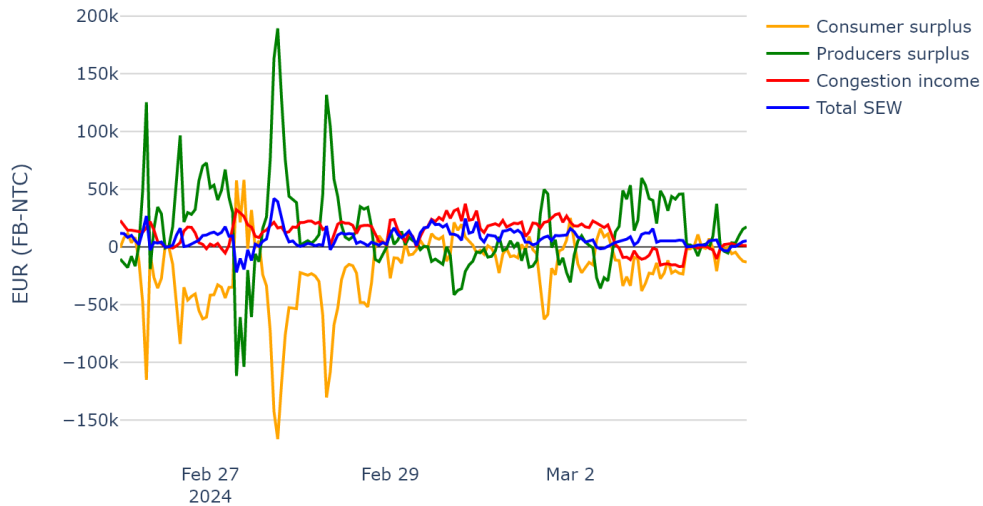


FI, socio-economic welfare per stakeholder and country



## Norway

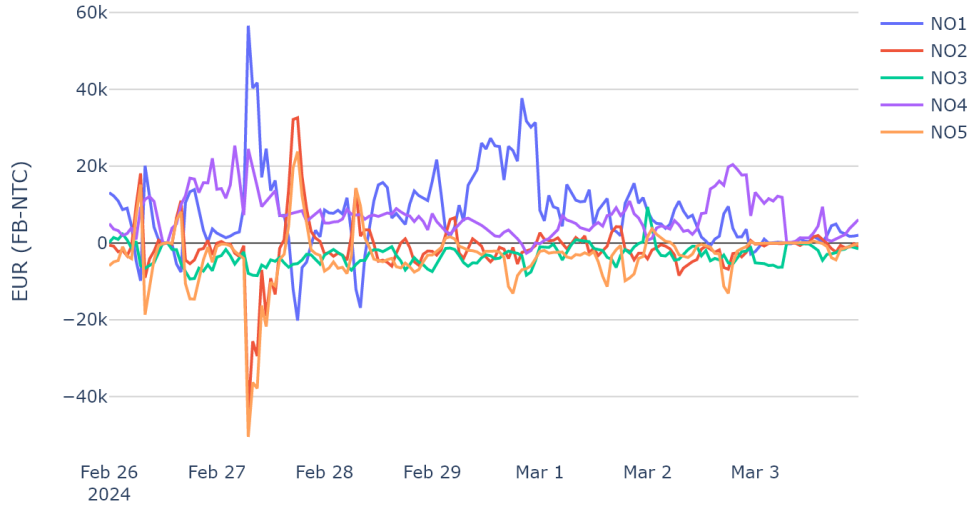
NO, socio-economic welfare per stakeholder and country



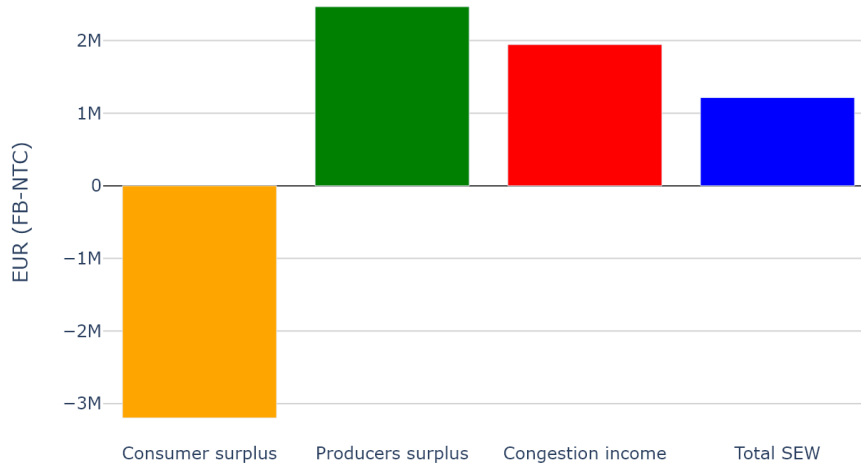




Total socio economic welfaregain FB-NTC per BZ in NO



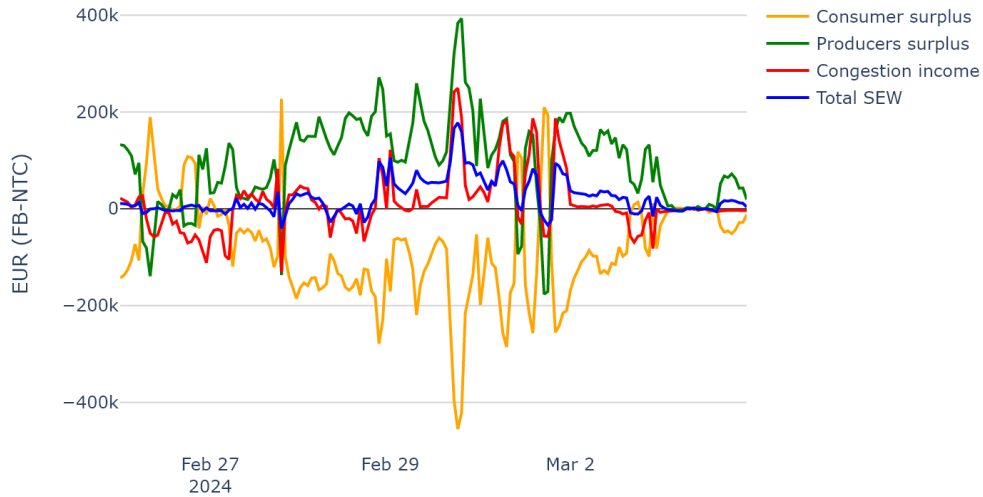
NO, socio-economic welfare per stakeholder and country



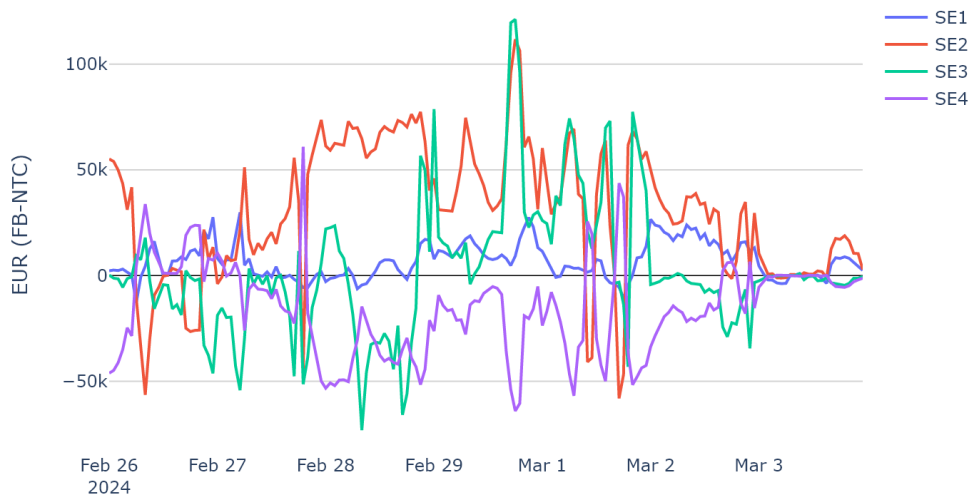


## Sweden

SE, socio-economic welfare per stakeholder and country

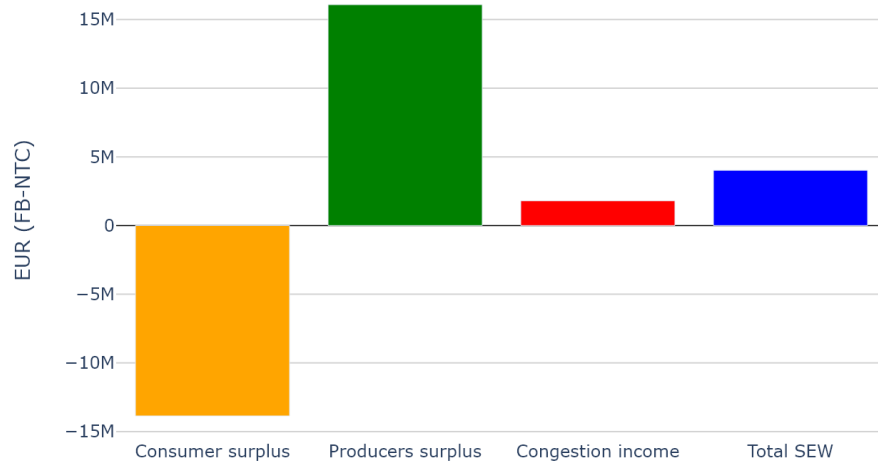


Total socio economic welfaregain FB-NTC per BZ in SE





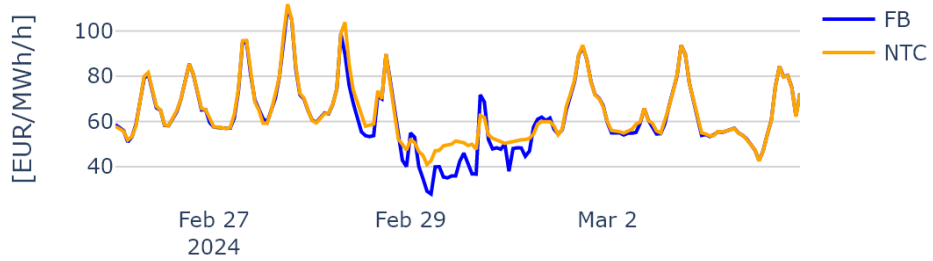
SE, socio-economic welfare per stakeholder and country



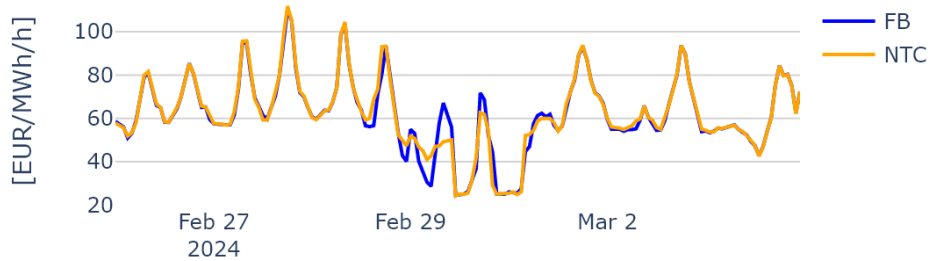


## Prices

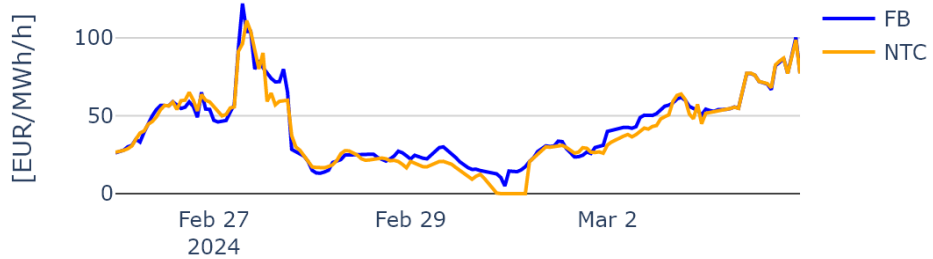
### DK1 price



### DK2 price

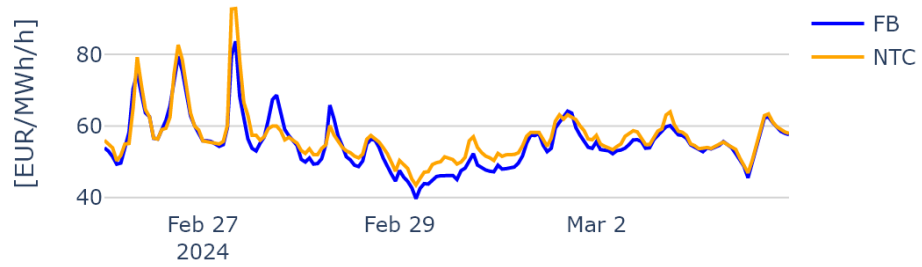


### FI price

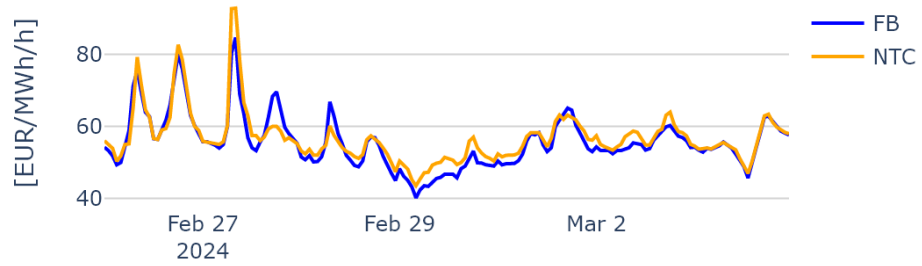




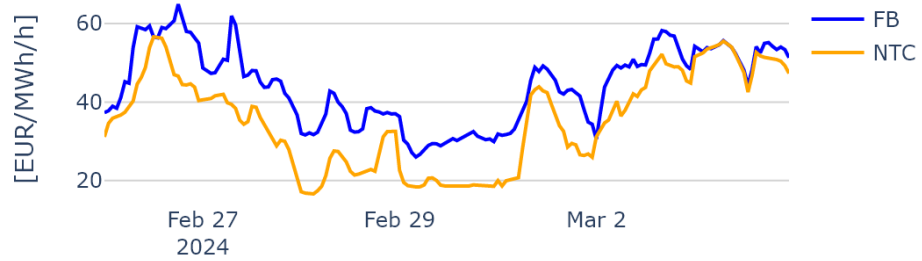
### NO1 price



### NO2 price

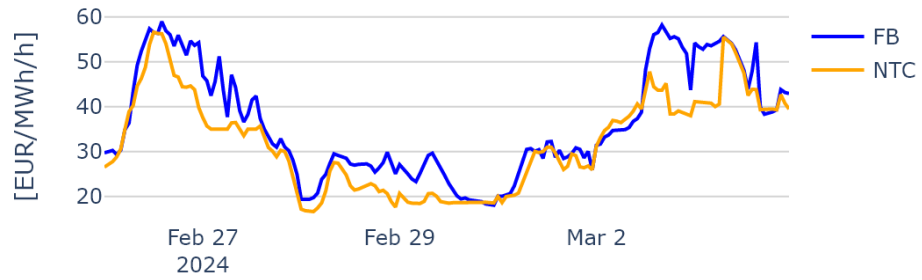


### NO3 price

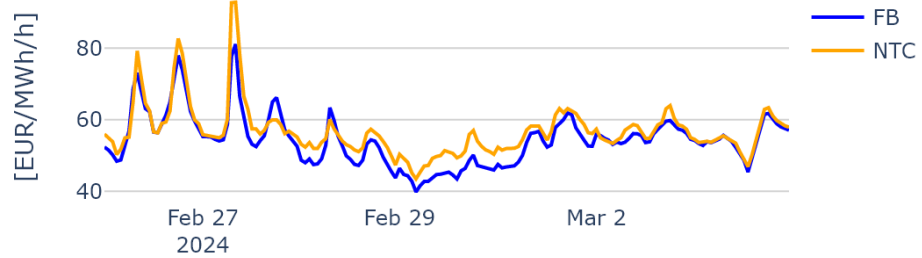




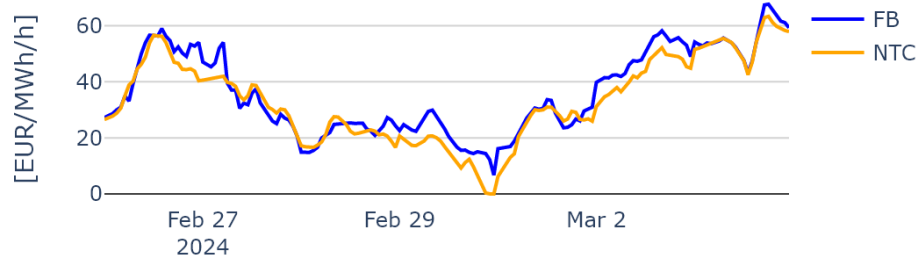
### NO4 price



### NO5 price

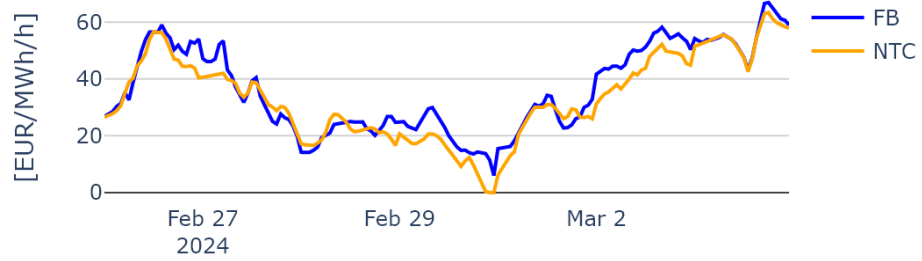


### SE1 price

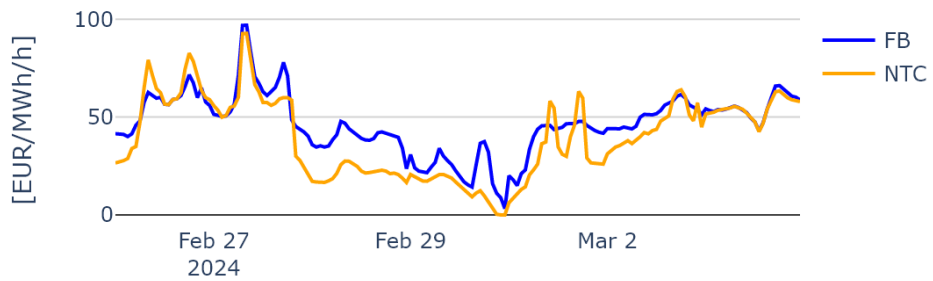




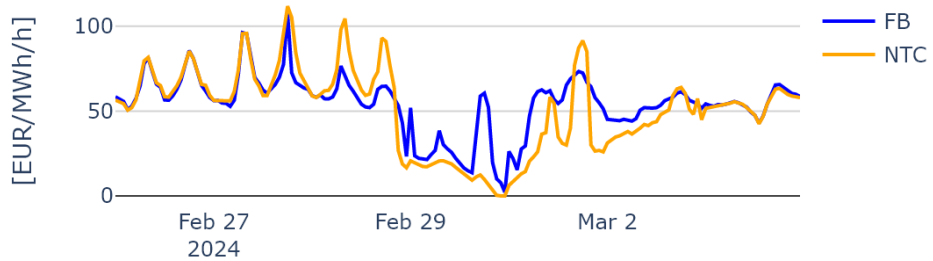
### SE2 price



### SE3 price



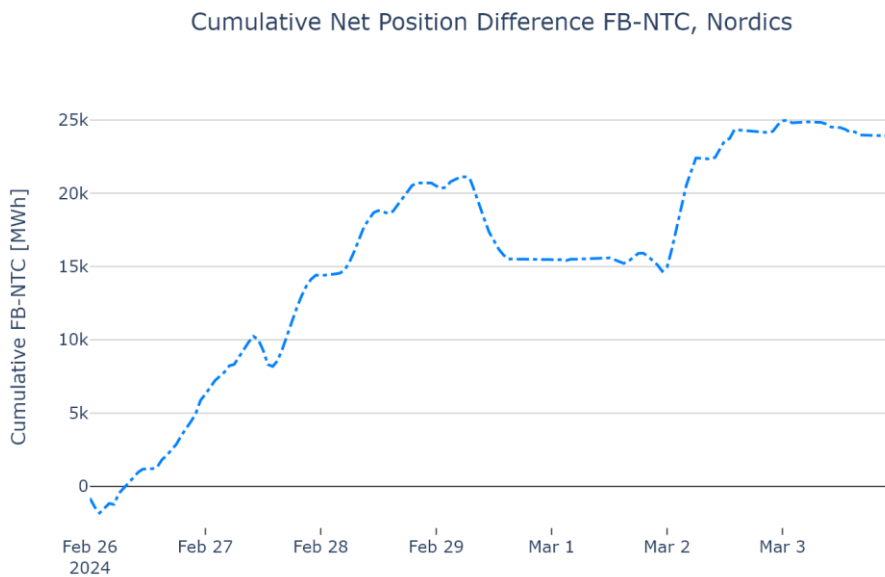
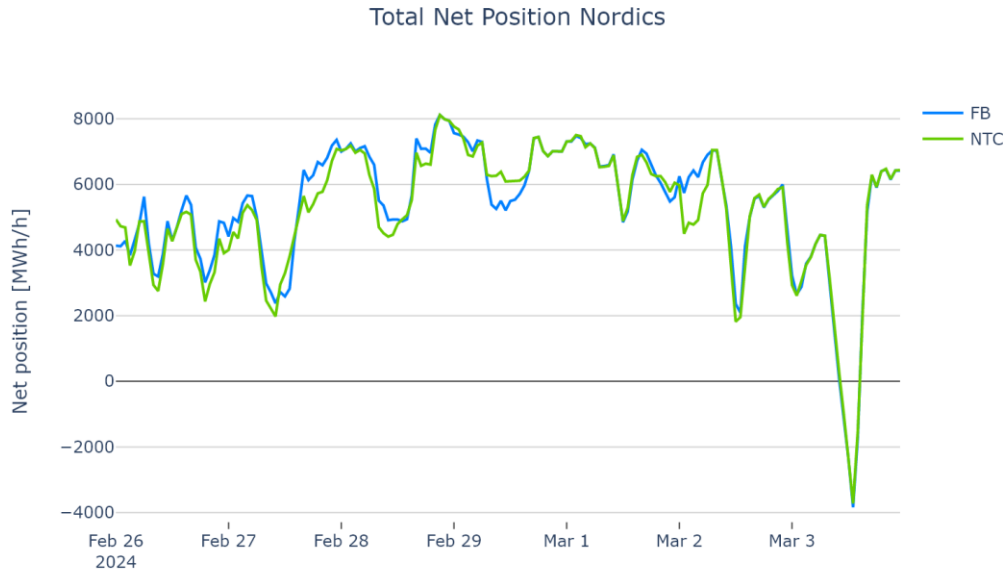
### SE4 price





## Net positions

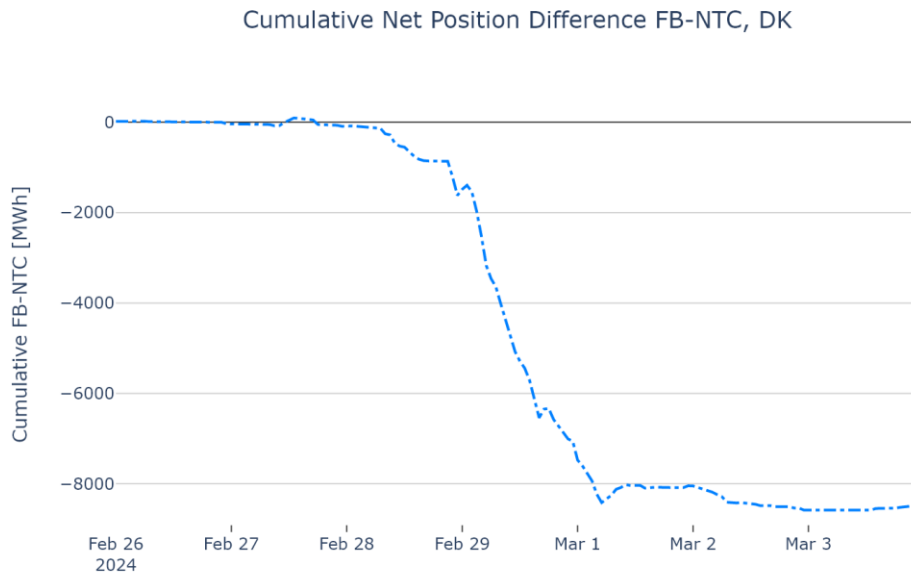
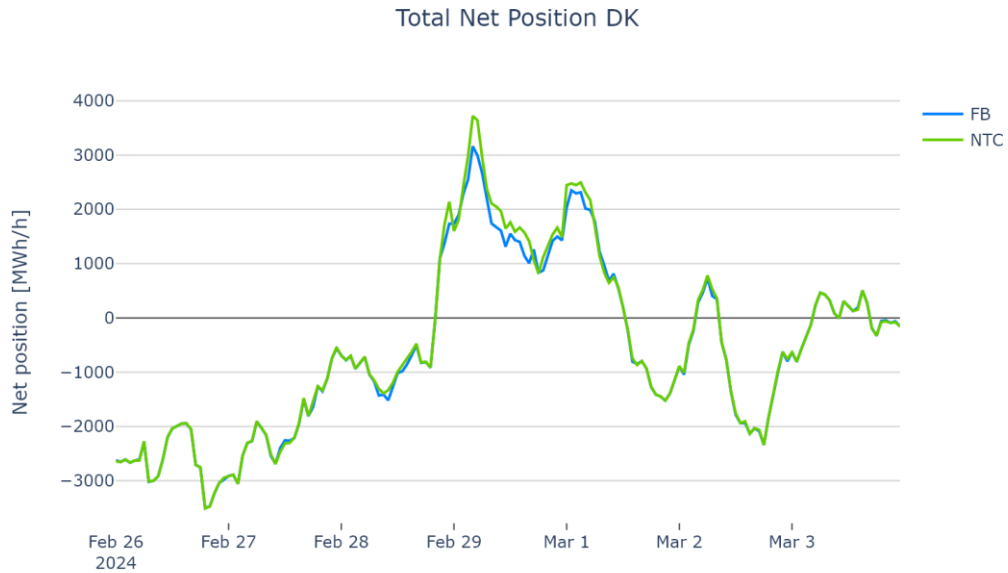
### Nordics

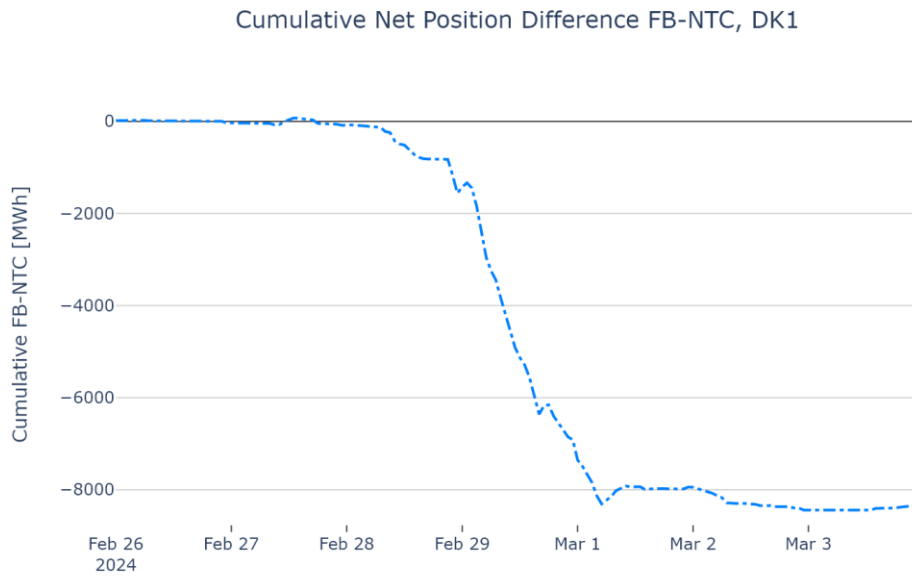
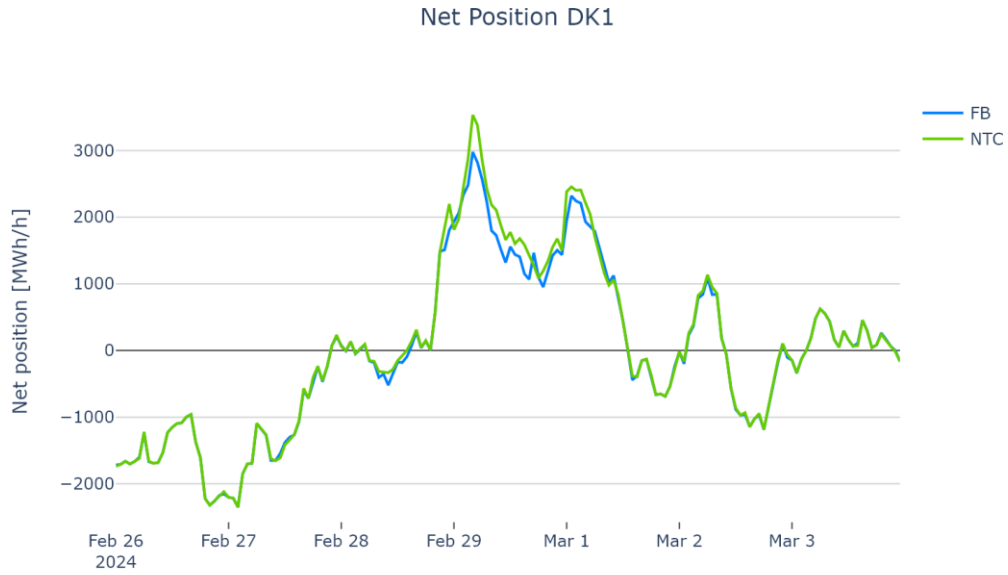


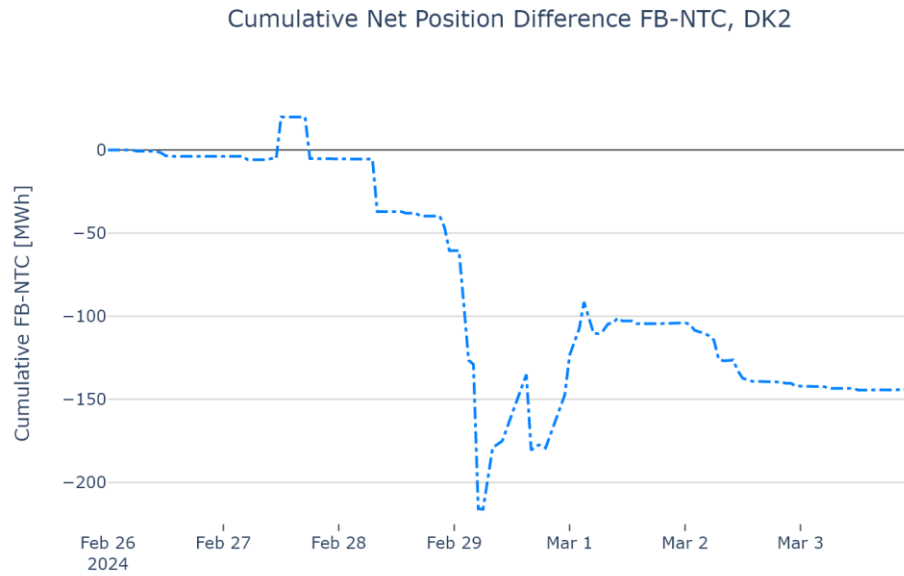
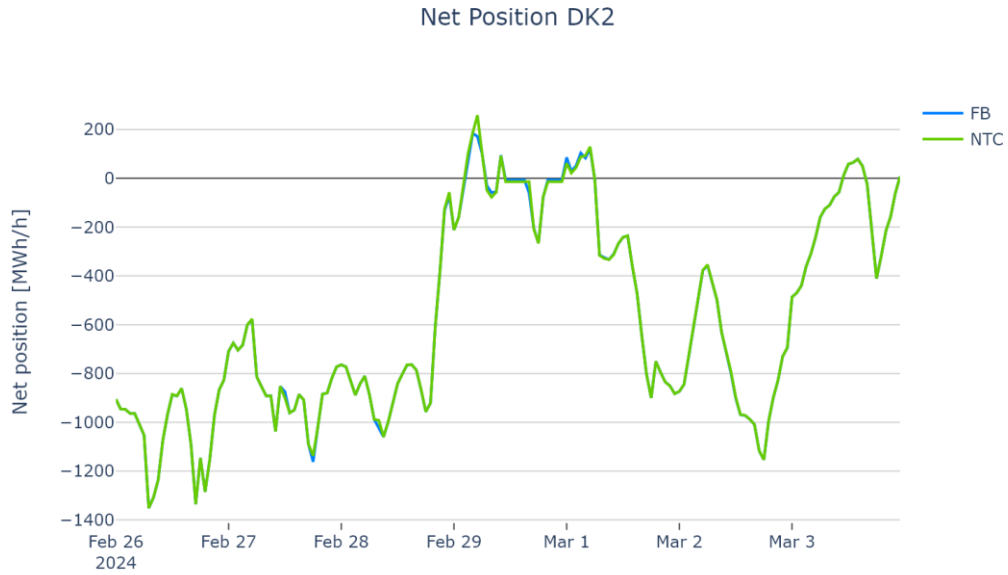




## Denmark



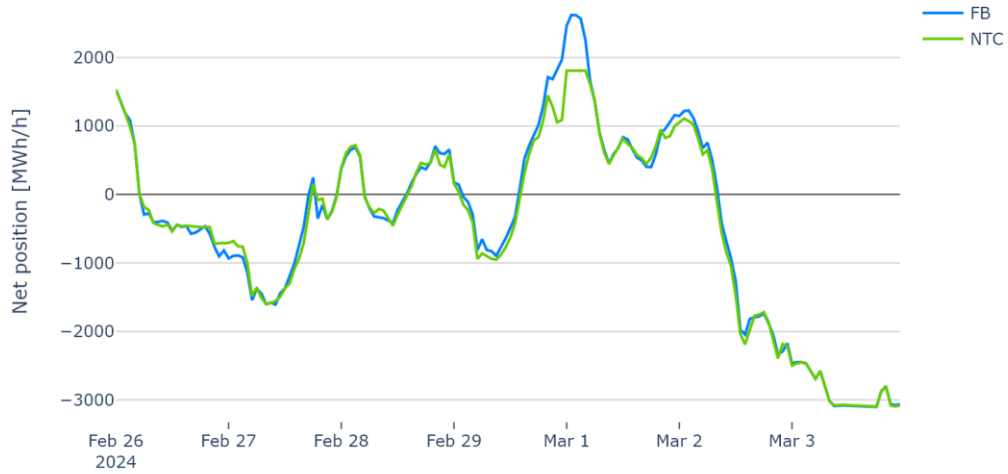




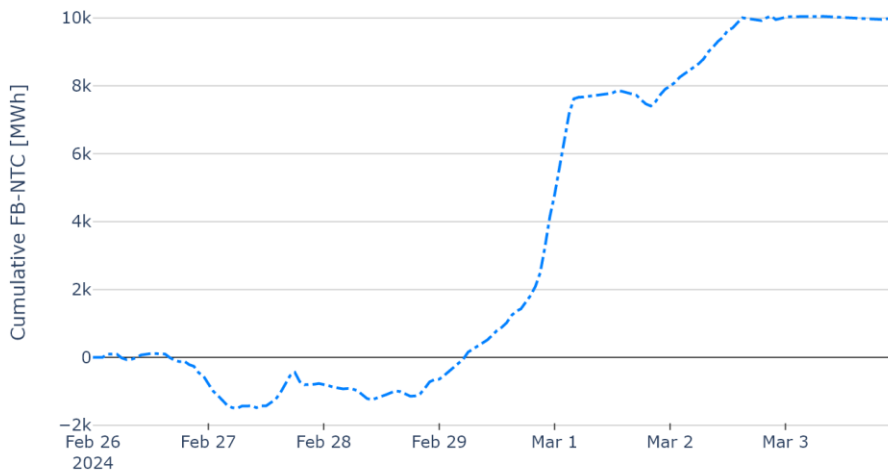


## Finland

Total Net Position FI



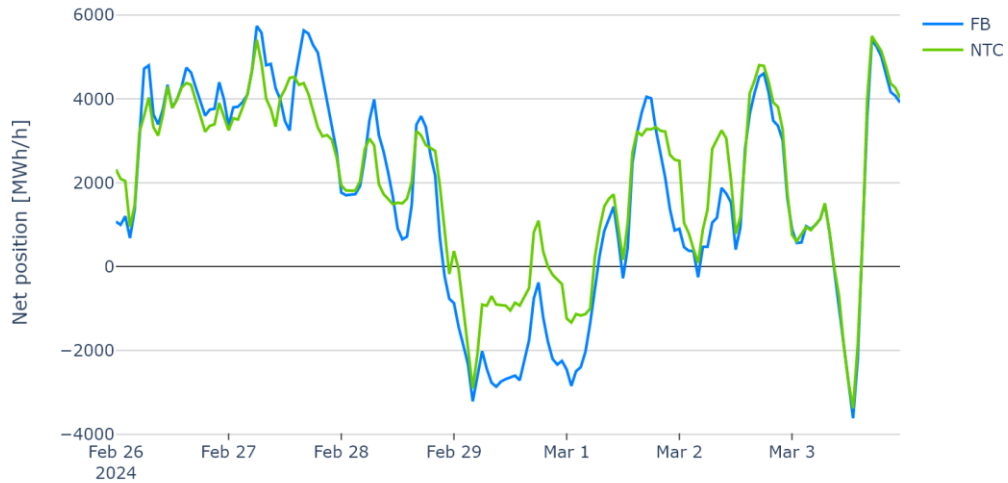
Cumulative Net Position Difference FB-NTC, FI





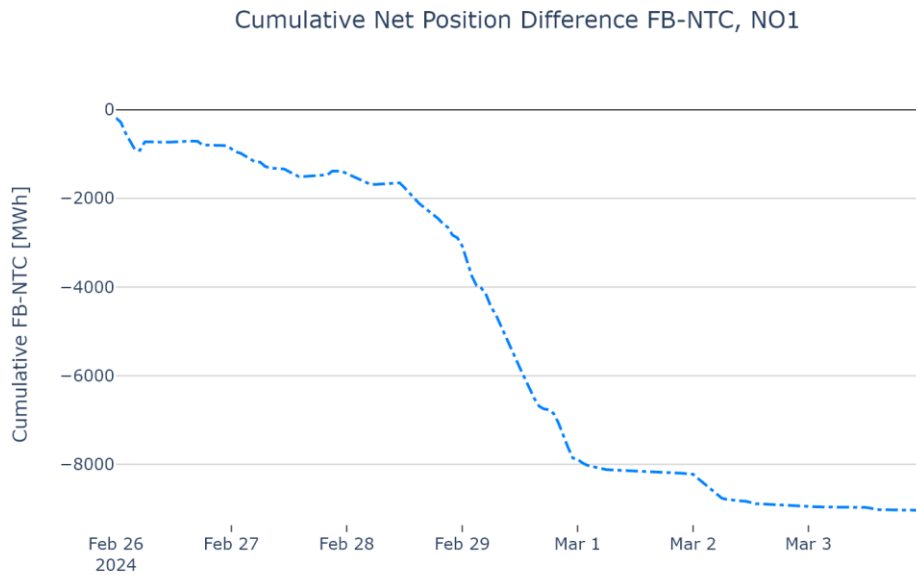
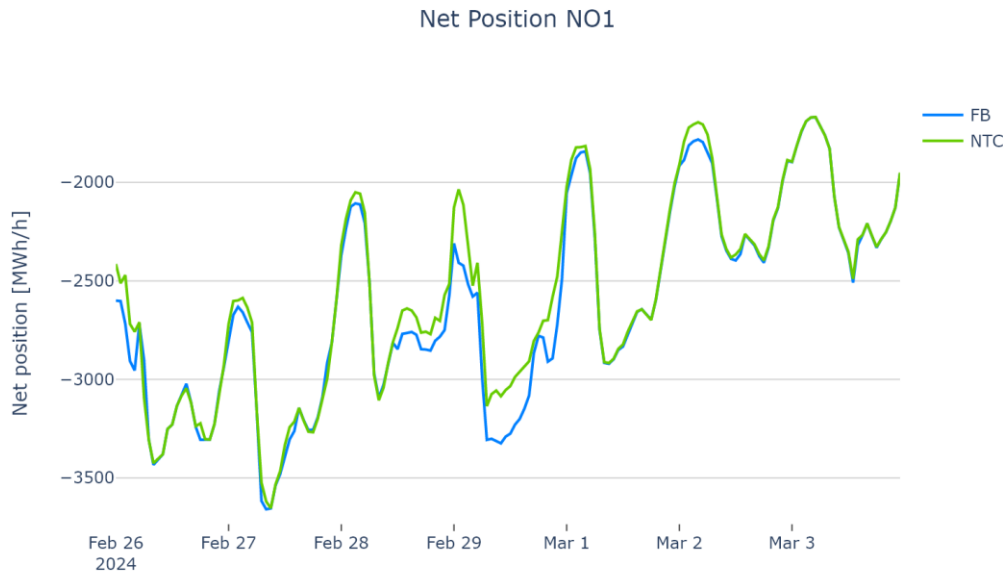
## Norway

Total Net Position NO



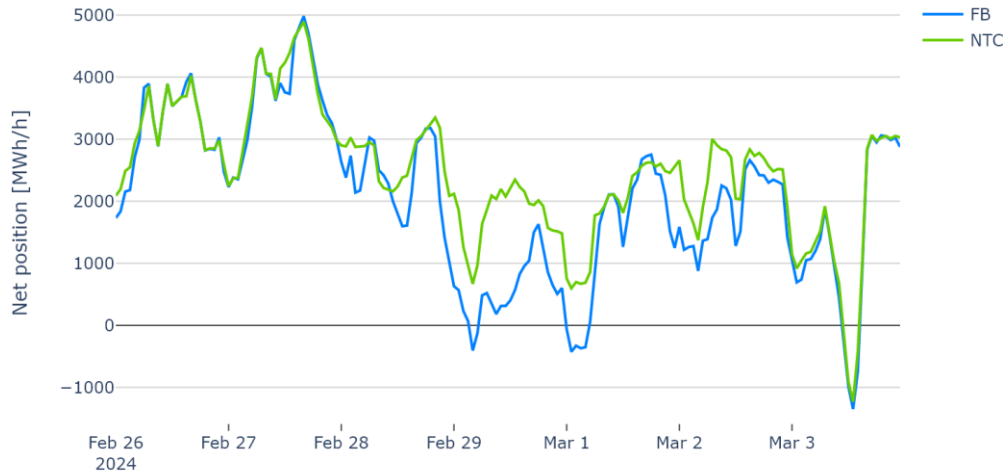
Cumulative Net Position Difference FB-NTC, NO



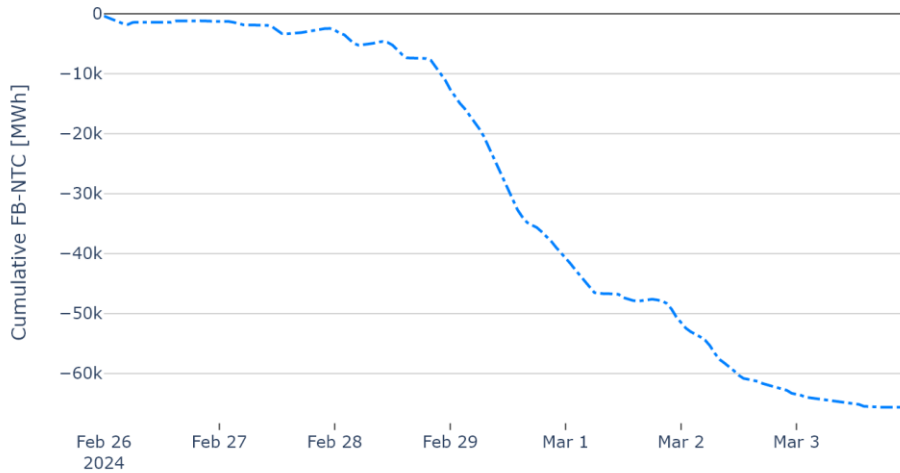




Net Position NO2

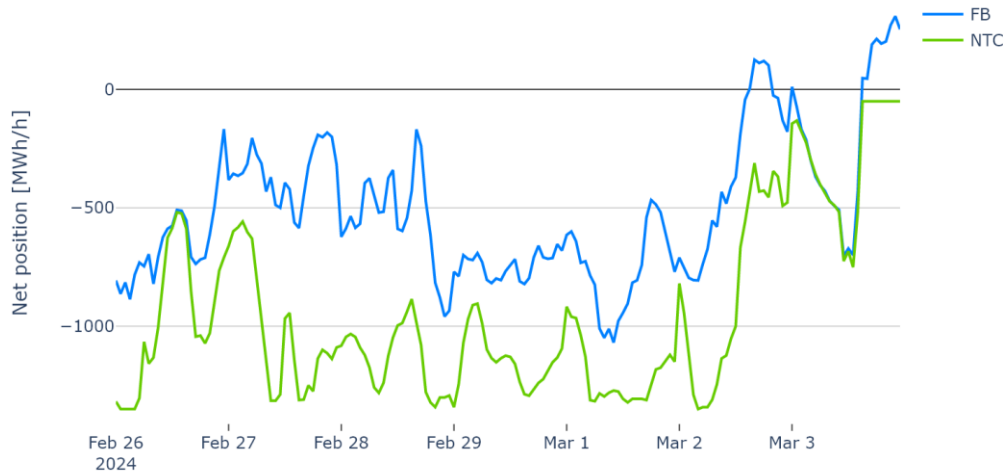


Cumulative Net Position Difference FB-NTC, NO2

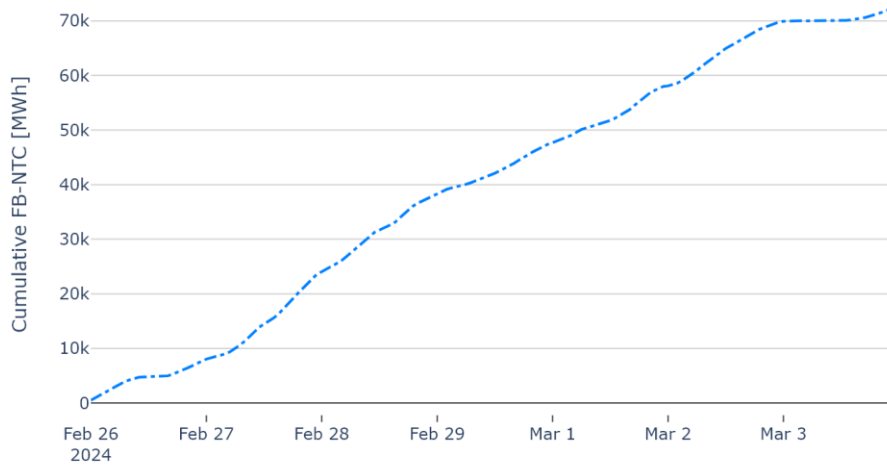




### Net Position NO3



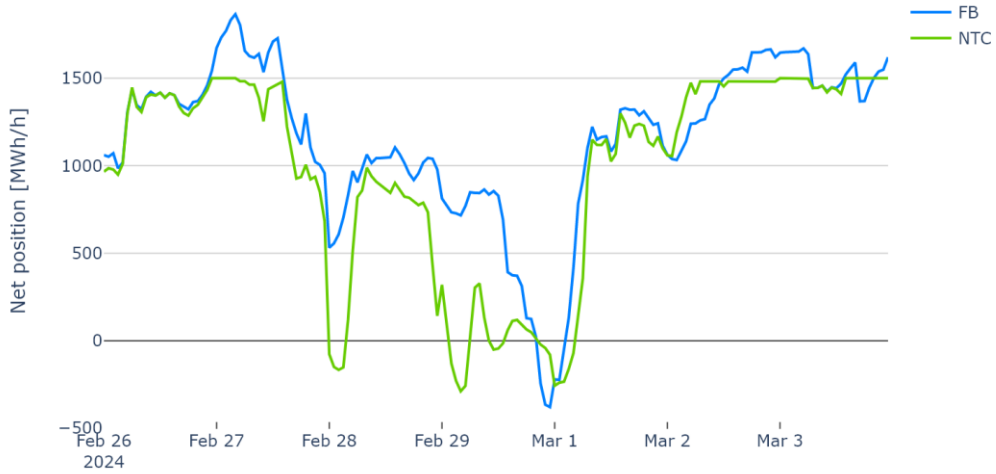
### Cumulative Net Position Difference FB-NTC, NO3



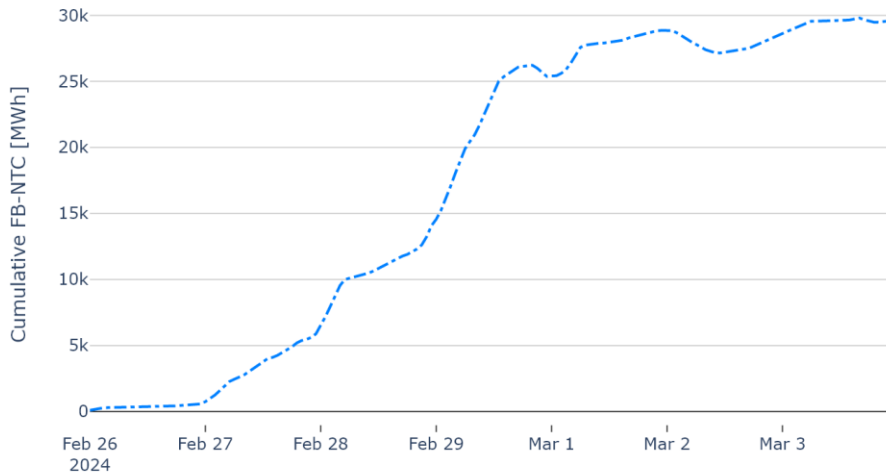




Net Position NO4

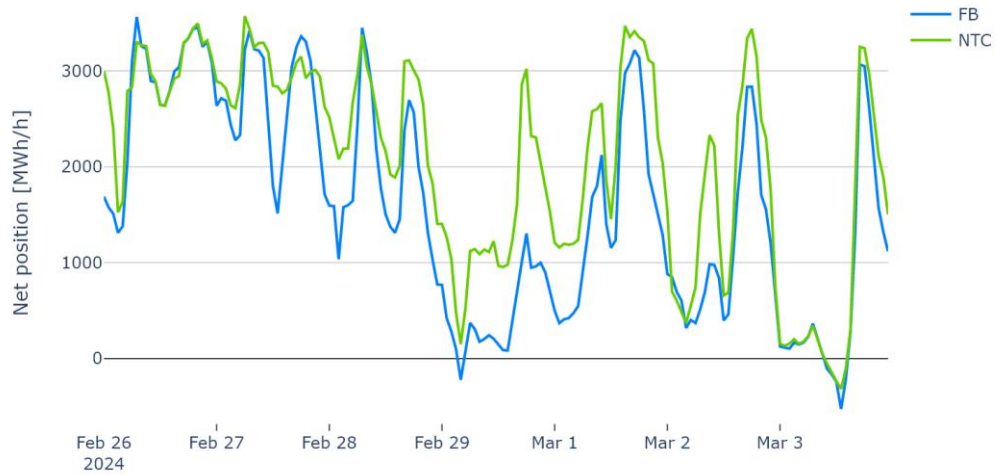


Cumulative Net Position Difference FB-NTC, NO4

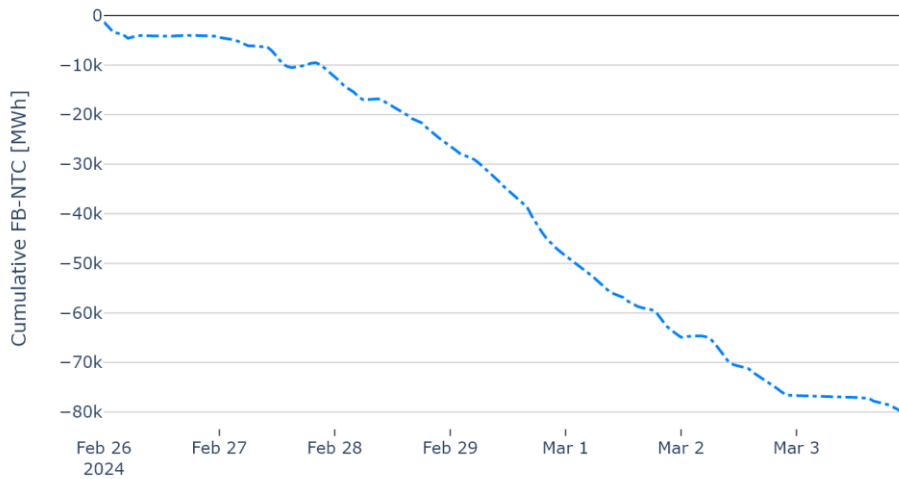




Net Position NO5

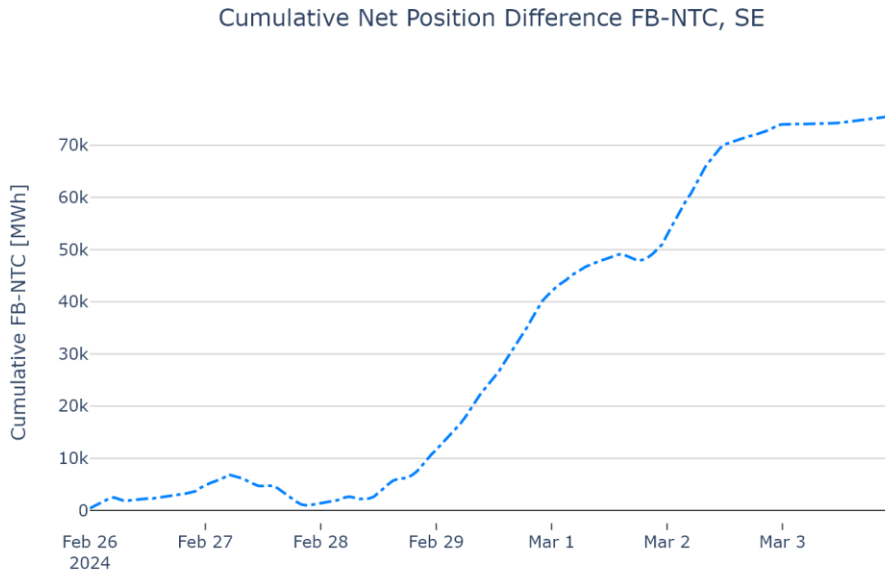
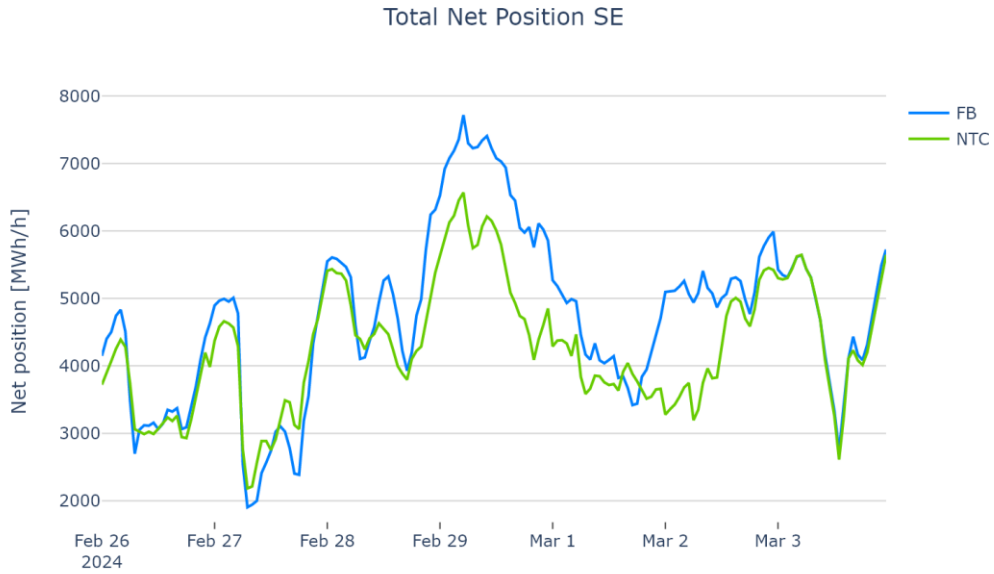


Cumulative Net Position Difference FB-NTC, NO5



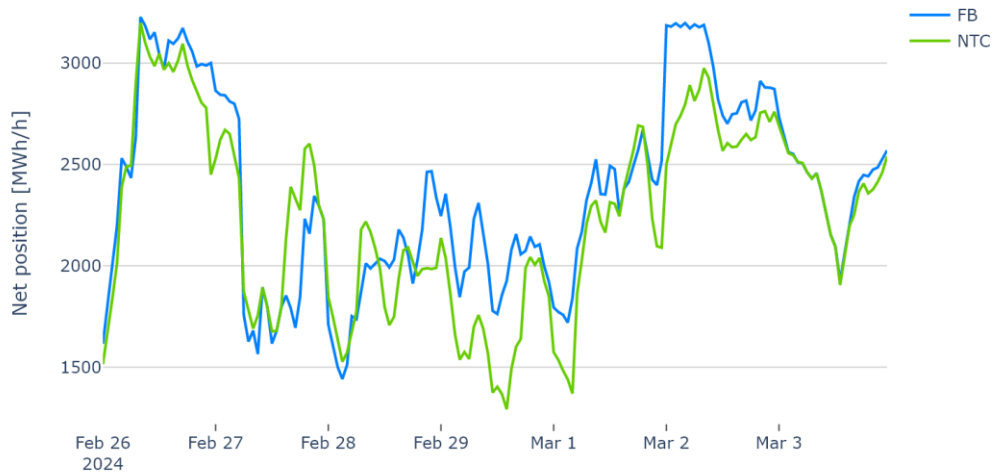


## Sweden



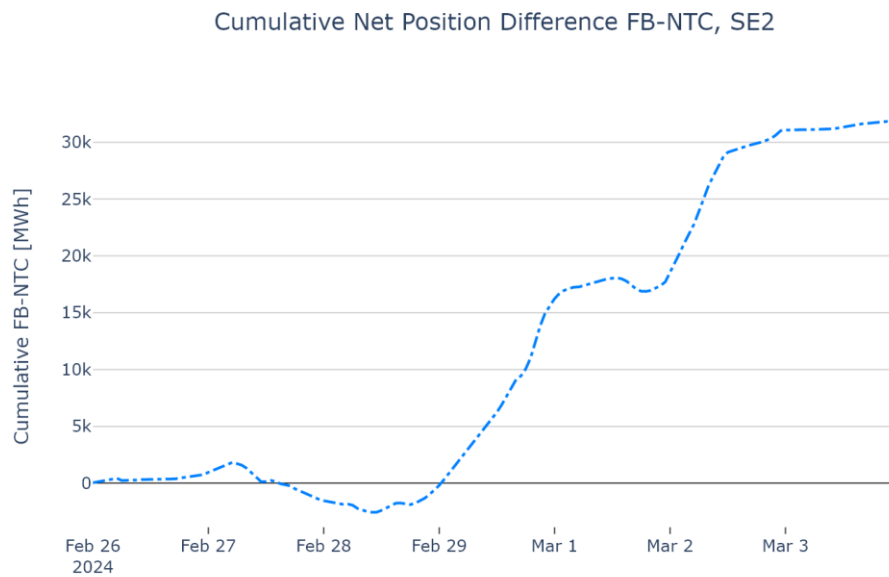
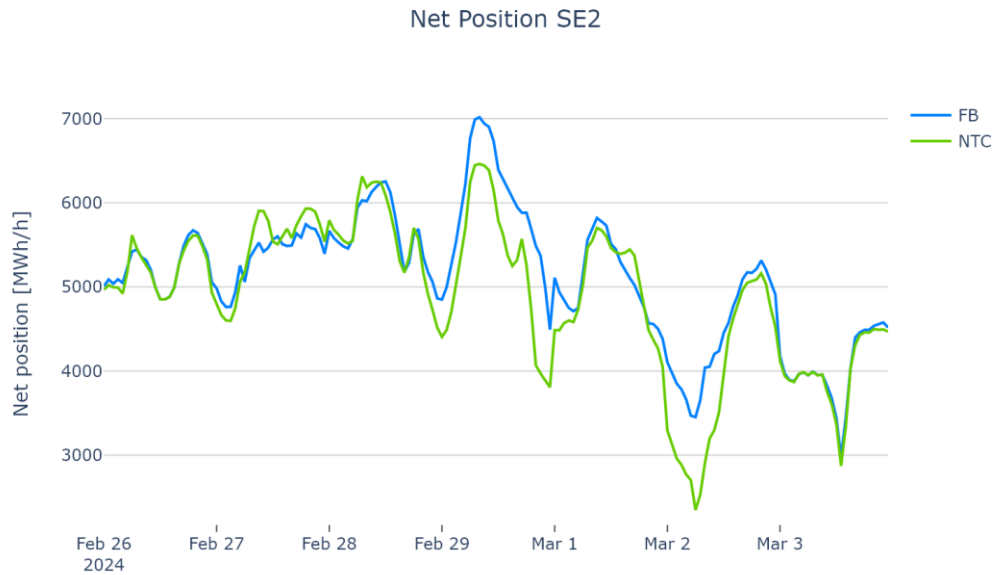


Net Position SE1



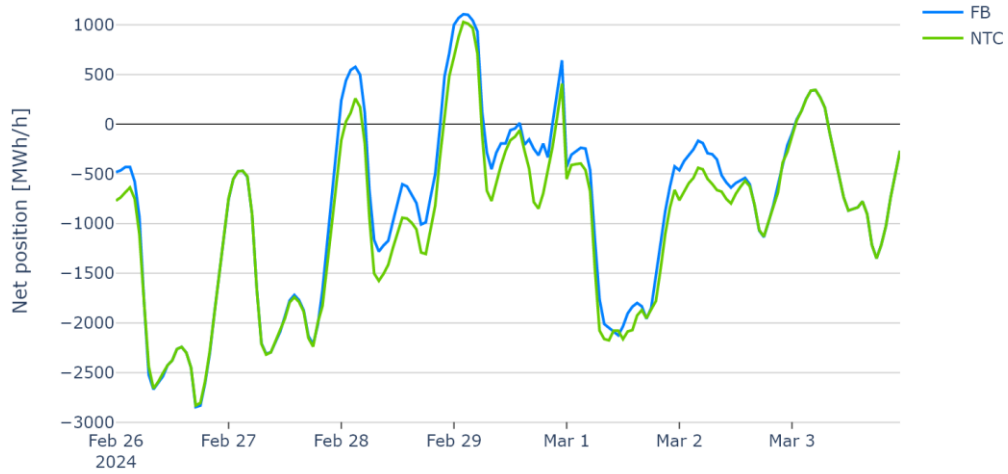
Cumulative Net Position Difference FB-NTC, SE1



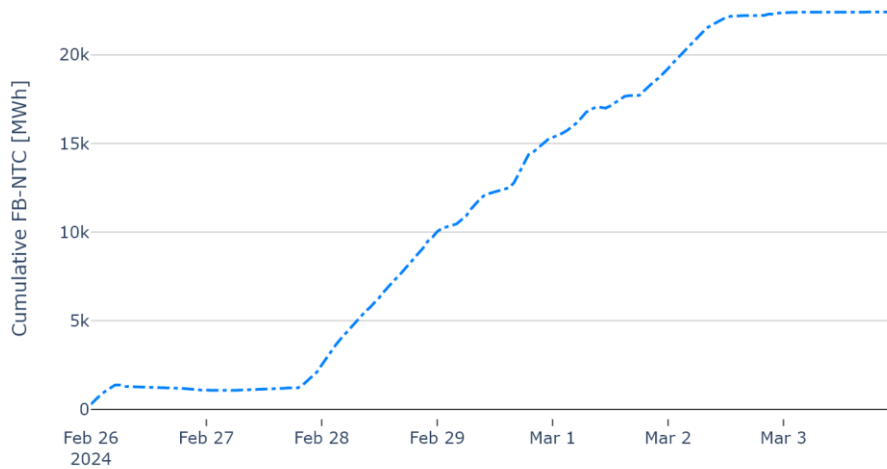


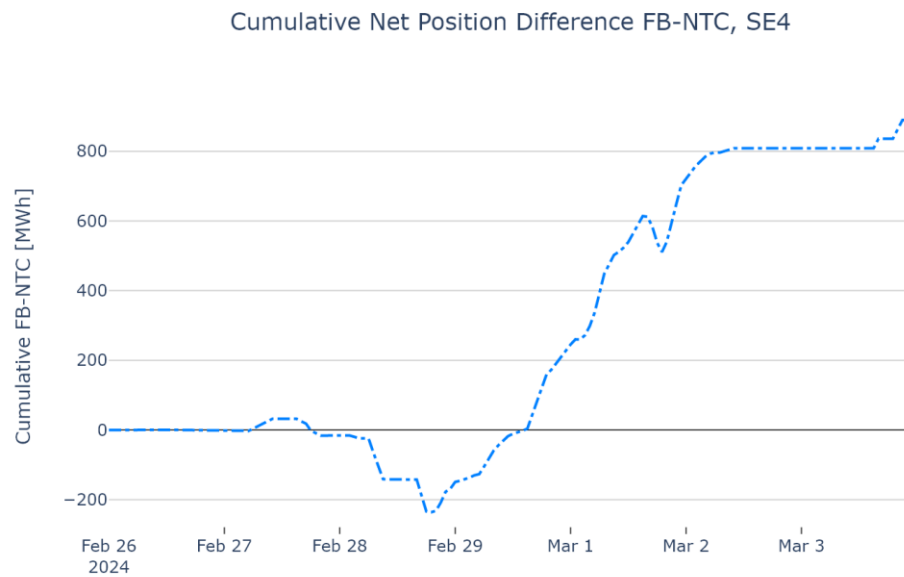
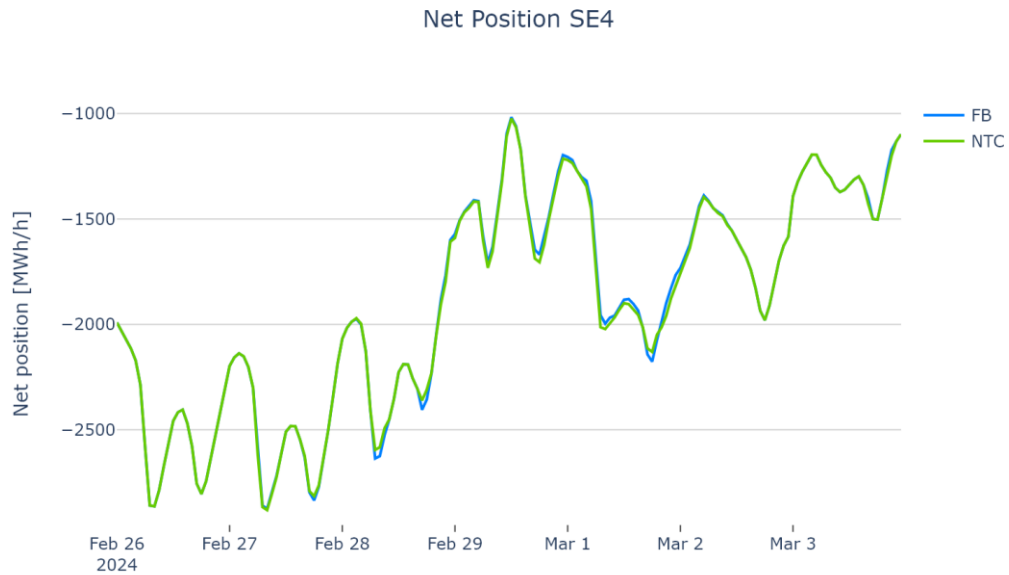


Net Position SE3



Cumulative Net Position Difference FB-NTC, SE3



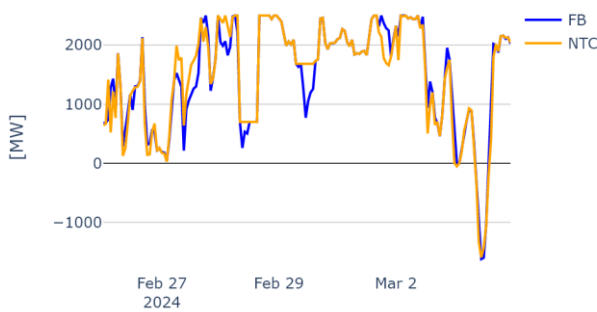




## Border flow

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.

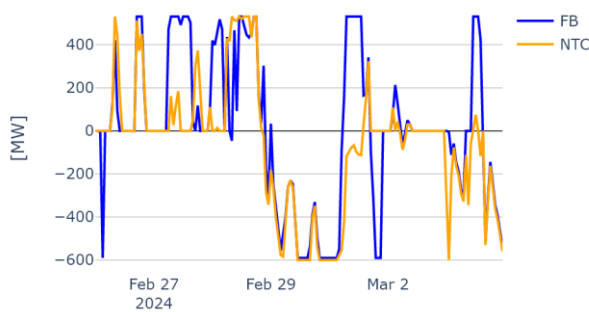
DK1 > DE/LU Physical Flow



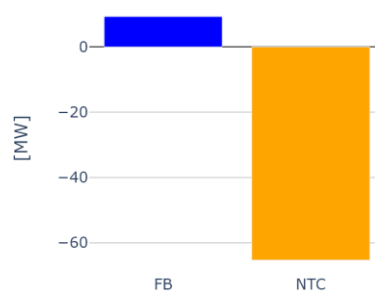
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow



DK1 > DK2 Average flow on border



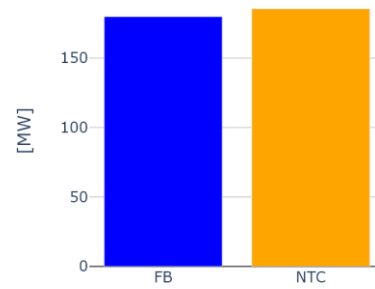




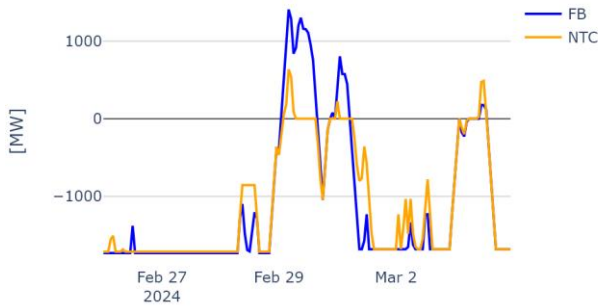
DK1 > NL Physical Flow



DK1 > NL Average flow on border



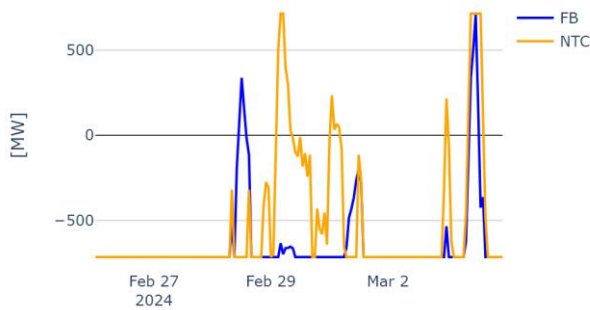
DK1 > NO2 Physical Flow



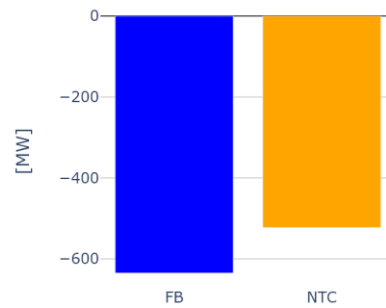
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

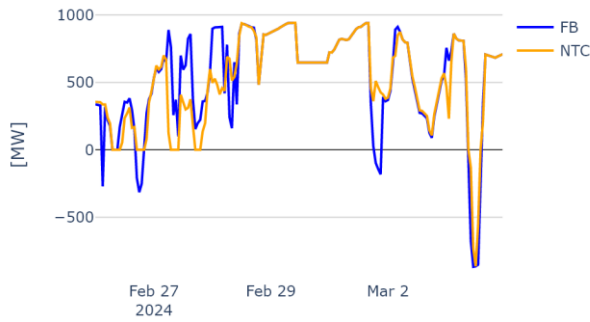


DK1 > SE3 Average flow on border





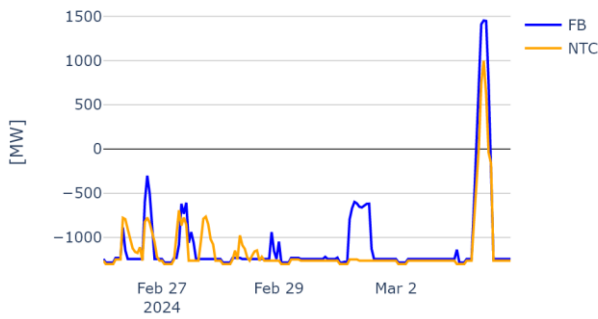
DK2 > DE/LU Physical Flow



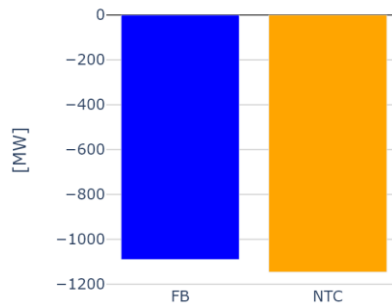
DK2 > DE/LU Average flow on border



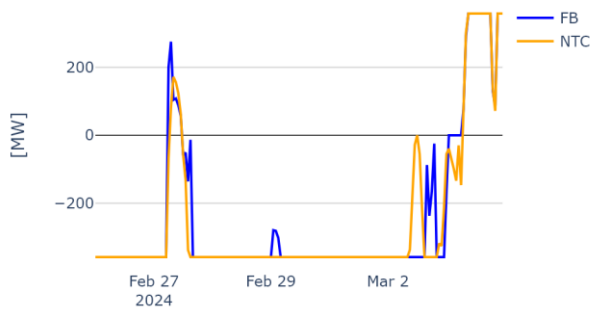
DK2 > SE4 Physical Flow



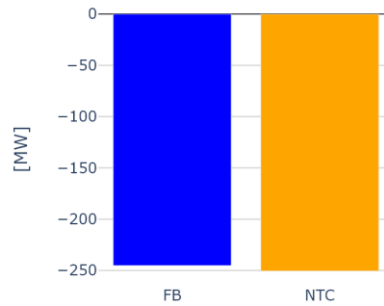
DK2 > SE4 Average flow on border



EE > FI Physical Flow



EE > FI Average flow on border

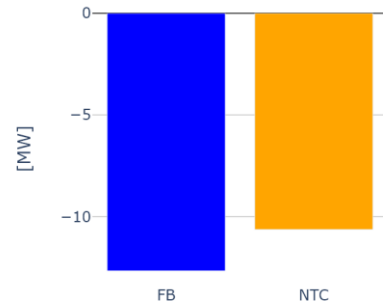




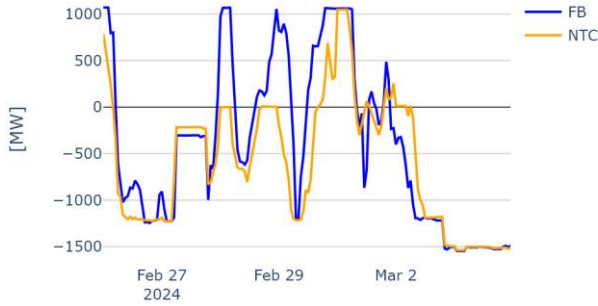
FI > NO4 Physical Flow



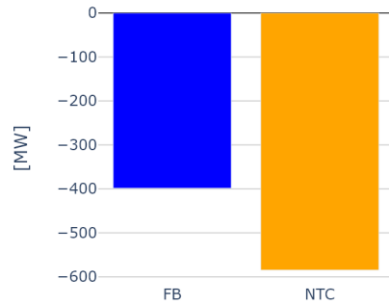
FI > NO4 Average flow on border



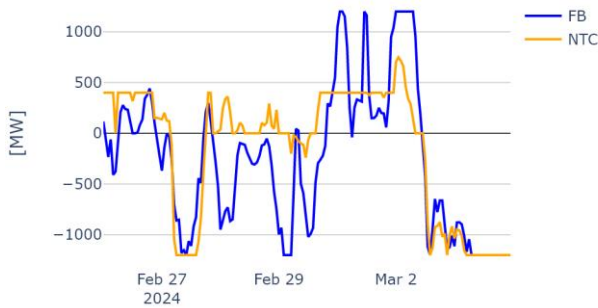
FI > SE1 Physical Flow



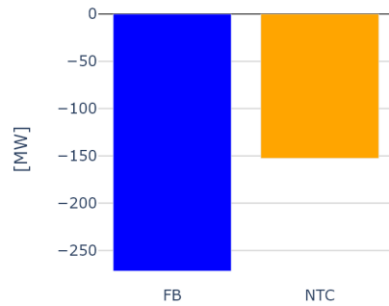
FI > SE1 Average flow on border



FI > SE3 Physical Flow

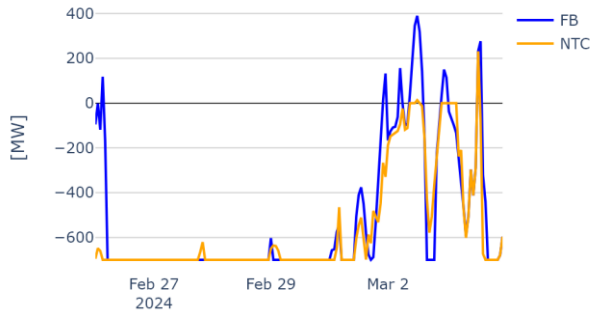


FI > SE3 Average flow on border

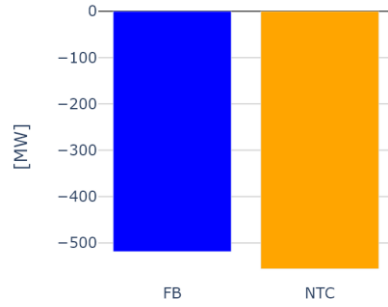




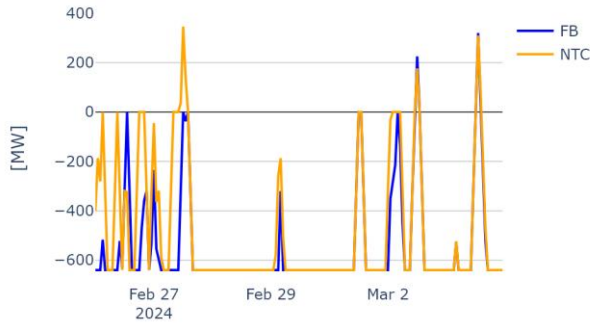
LT > SE4 Physical Flow



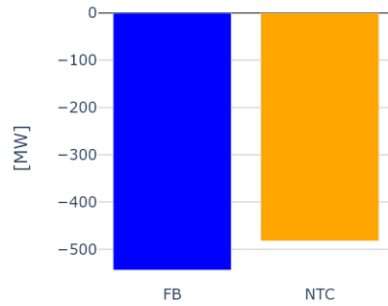
LT > SE4 Average flow on border



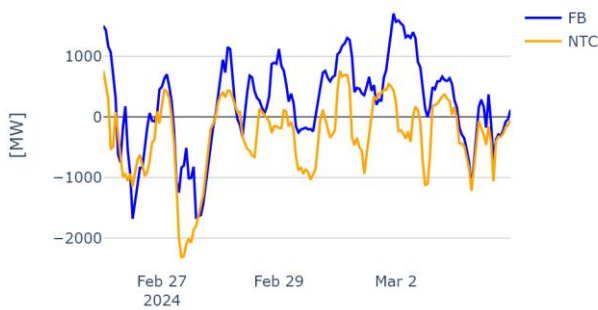
NL > NO2 Physical Flow



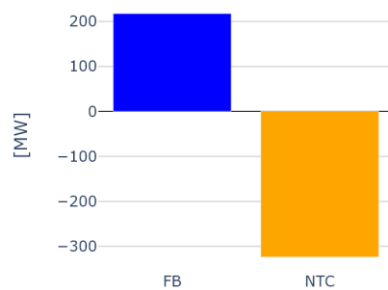
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

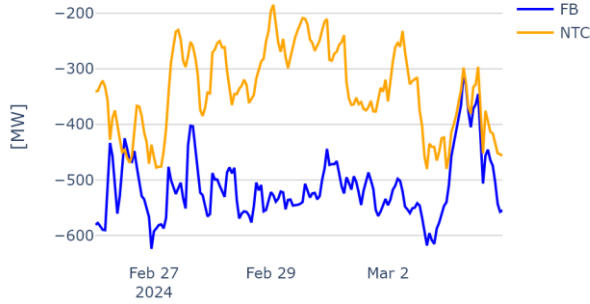


NO1 > NO2 Average flow on border





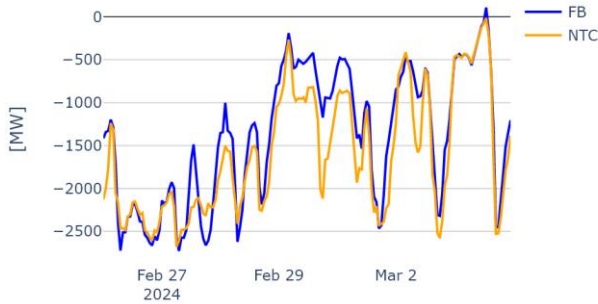
NO1 > NO3 Physical Flow



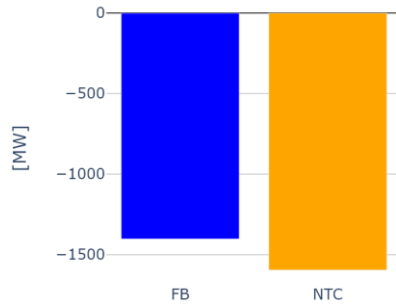
NO1 > NO3 Average flow on border



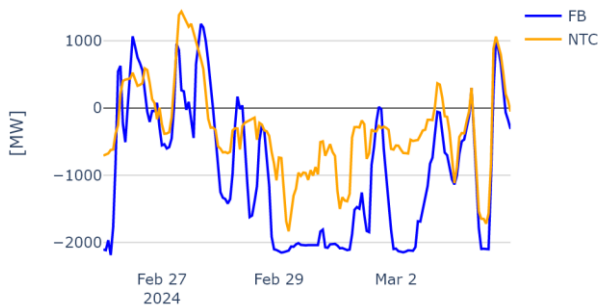
NO1 > NO5 Physical Flow



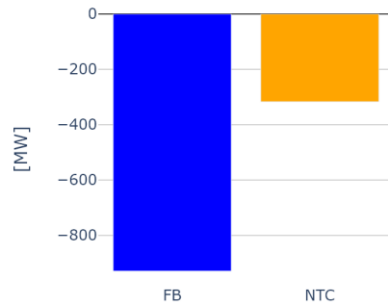
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow

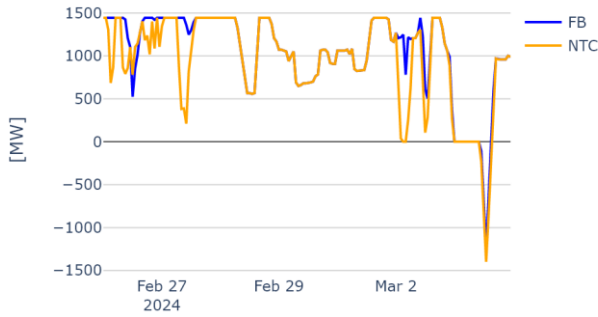


NO1 > SE3 Average flow on border

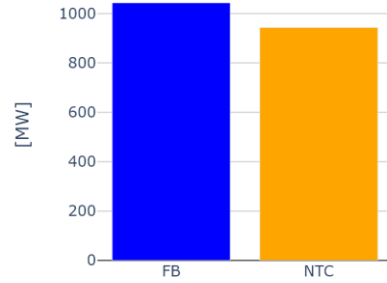




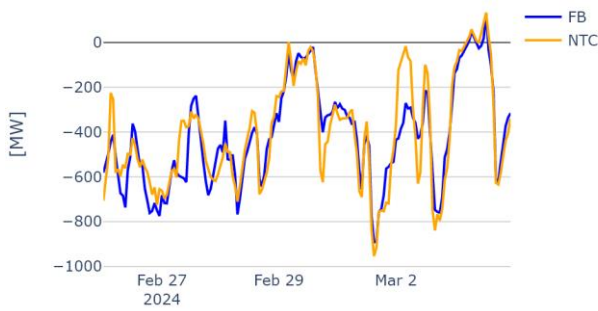
NO2 > DE/LU Physical Flow



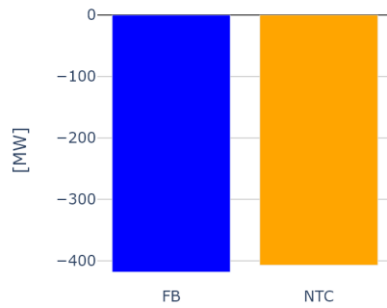
NO2 > DE/LU Average flow on border



NO2 > NO5 Physical Flow



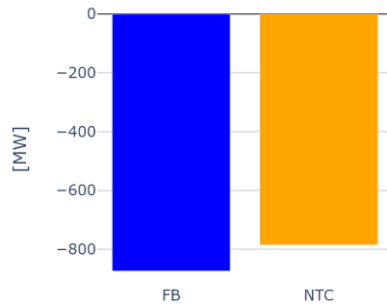
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

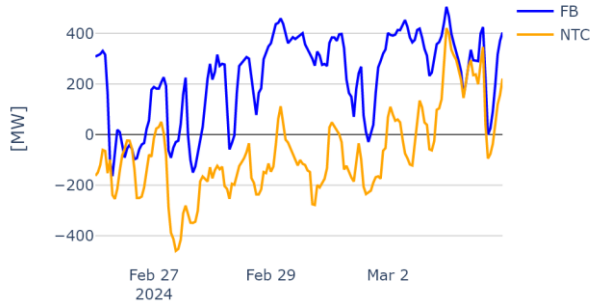


NO3 > NO4 Average flow on border

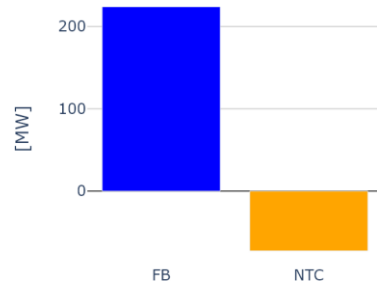




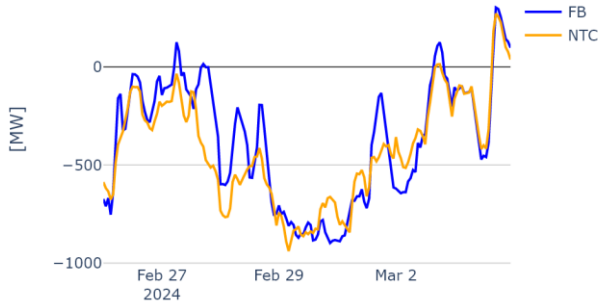
NO3 > NO5 Physical Flow



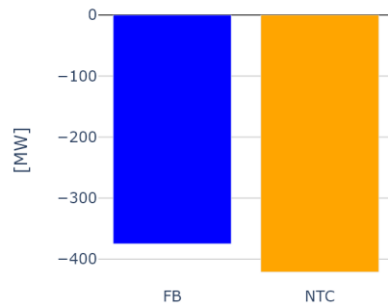
NO3 > NO5 Average flow on border



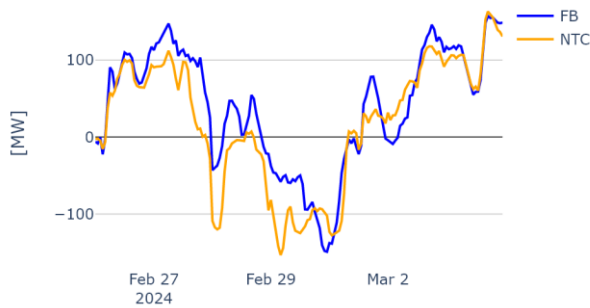
NO3 > SE2 Physical Flow



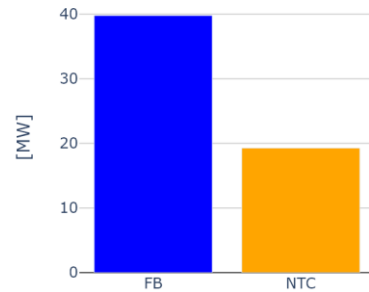
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

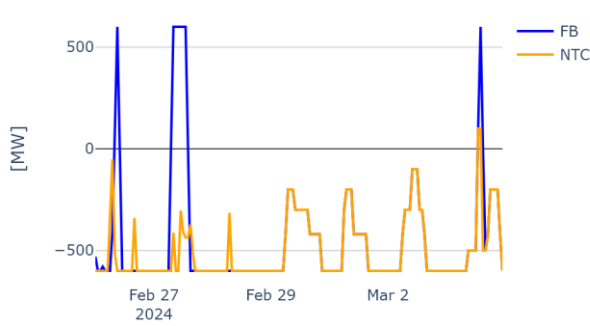


NO4 > SE2 Average flow on border

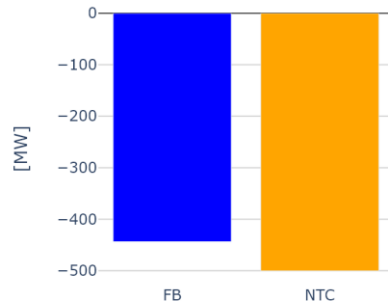




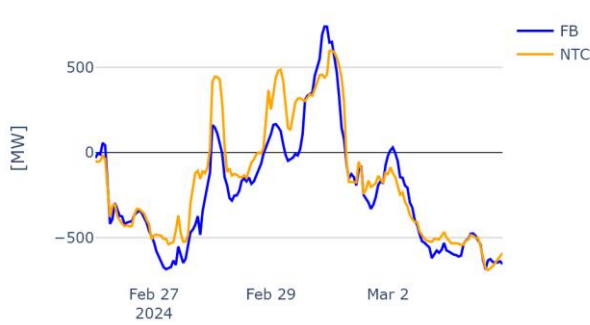
PL > SE4 Physical Flow



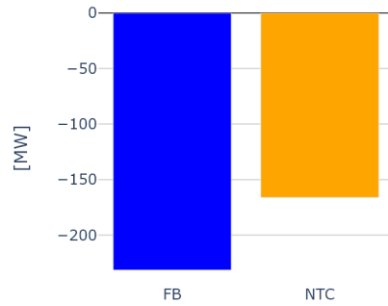
PL > SE4 Average flow on border



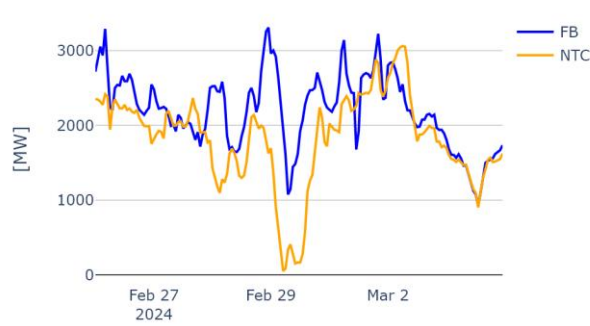
SE1 > NO4 Physical Flow



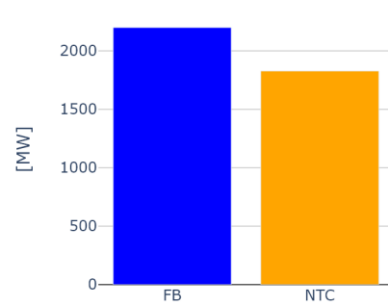
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow



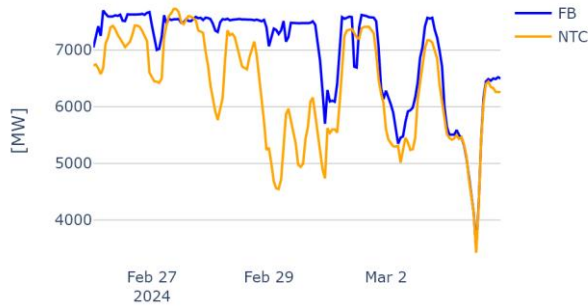
SE1 > SE2 Average flow on border



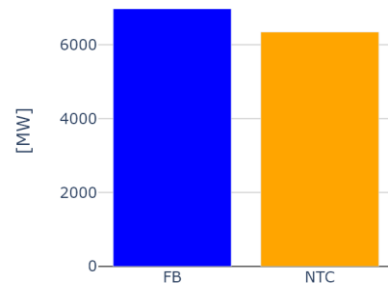




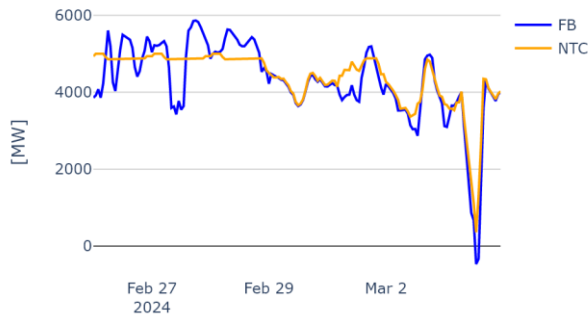
SE2 > SE3 Physical Flow



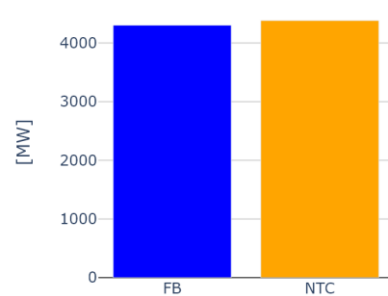
SE2 > SE3 Average flow on border



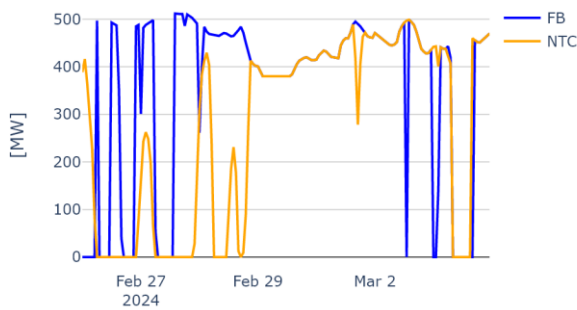
SE3 > SE4 Physical Flow



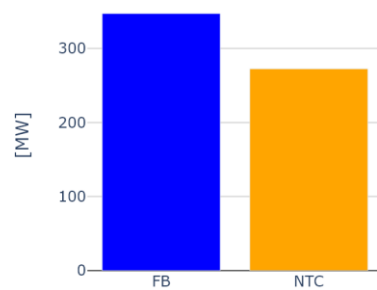
SE3 > SE4 Average flow on border



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	1506842	5
DK1 > DK2	126564	1
DK1 > NL	585513	5
DK1 > NO2	1741554	8
DK1 > SE3	1755490	15
DK2 > DE/LU	670997	5
DK2 > SE4	1597633	8
EE > FI	1731273	29
FI > NO4	18287	7
FI > SE1	803713	7
FI > SE3	530078	2
LT > SE4	1652370	14
NL > NO2	1030427	12
NO1 > NO2	7464	0
NO1 > NO3	972527	11
NO1 > NO5	265051	1
NO1 > SE3	2438360	9
NO2 > DE/LU	1894651	12
NO2 > NO5	104365	1
NO3 > NO4	1130072	8
NO3 > NO5	367019	6
NO3 > SE2	666954	8
NO4 > SE2	30660	1
PL > SE4	1874021	22
SE1 > NO4	114507	1
SE1 > SE2	31201	0
SE2 > SE3	12769780	10
SE3 > SE4	6282456	8
SE4 > DE/LU	839985	13



## 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	5	-28756	-14
DK1 > NL	3	-20455	-19
DK1 > NO2	5	-13071	-4
DK1 > SE3	7	-19100	-6
DK2 > DE/LU	1	-19	0
DK2 > SE4	15	-8592	0
EE > FI	0	0	0
FI > NO4	44	-2287	-3
FI > SE1	7	-198	0
FI > SE3	34	-225501	-12
LT > SE4	8	-6135	-1
NL > NO2	1	-771	-1
NO1 > NO2	39	-22597	0
NO1 > NO3	0	0	0
NO1 > NO5	5	-4976	-1
NO1 > SE3	14	-48990	-7
NO2 > DE/LU	1	-713	0
NO2 > NO5	11	-4724	-1
NO3 > NO4	8	-10489	-1
NO3 > NO5	14	-19628	-14
NO3 > SE2	13	-17164	-4
NO4 > SE2	46	-15568	-4
PL > SE4	6	-75723	-15
SE1 > NO4	48	-80703	-3
SE1 > SE2	55	-113164	-1
SE2 > SE3	17	-140695	-1
SE3 > SE4	23	-73844	0
SE4 > DE/LU	0	0	0