



Nordic Capacity Calculation Methodology Project (Nordic CCM)

Nordic CCM

External Parallel Run Market Report
Appendix for Week 13 of 2024



Contents

Domain validation.....	2
Socio Economic Welfare	3
Prices.....	12
Net positions	16
Border flow.....	32

Domain validation

Energy Delivery Day:	Mon. 25.3.	Tue. 26.3.	Wed. 27.3.	Thu. 28.3.	Fri. 29.3.	Sat. 30.3.	Sun. 31.3.
Invalid/missing IGMs	0	0	8	0	0	0	5
Substituted IGMs	0	0	8	0	0	0	5
Invalid CGMs	0	0	0	0	0	0	0
FB domain back-up	0	0	0	0	0	0	0
FAV provision	0	0	1	0	0	0	0
Final domain acceptance (1 TSO =25%)	100%	100%	100%	100%	100%	100%	100%

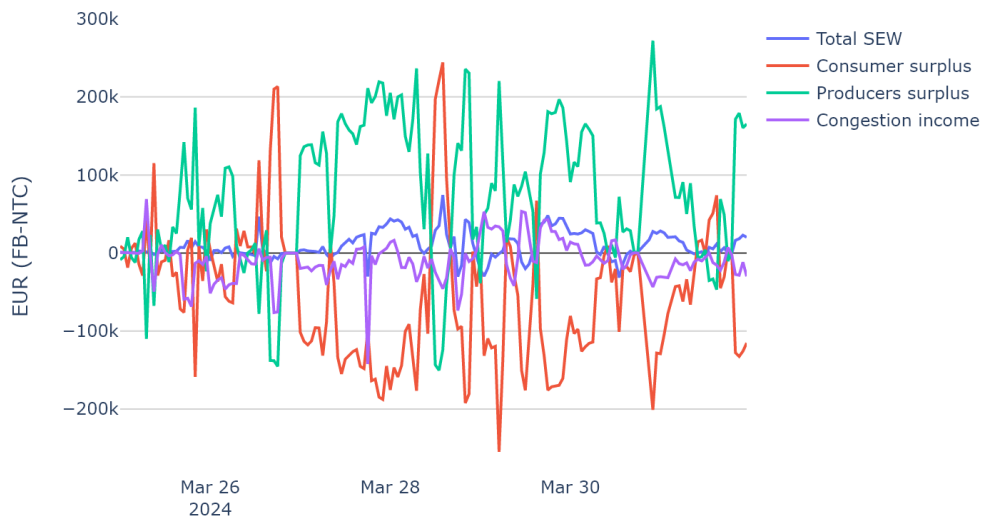


Socio Economic Welfare

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.

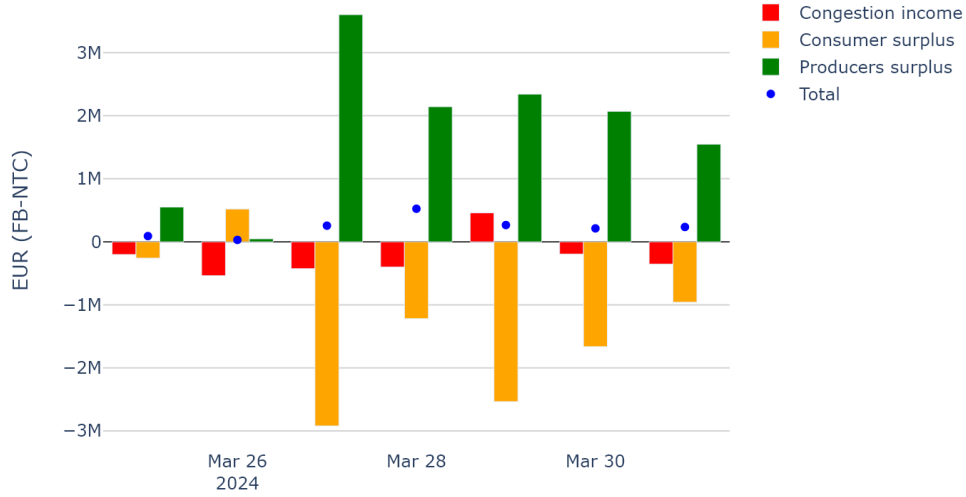
Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

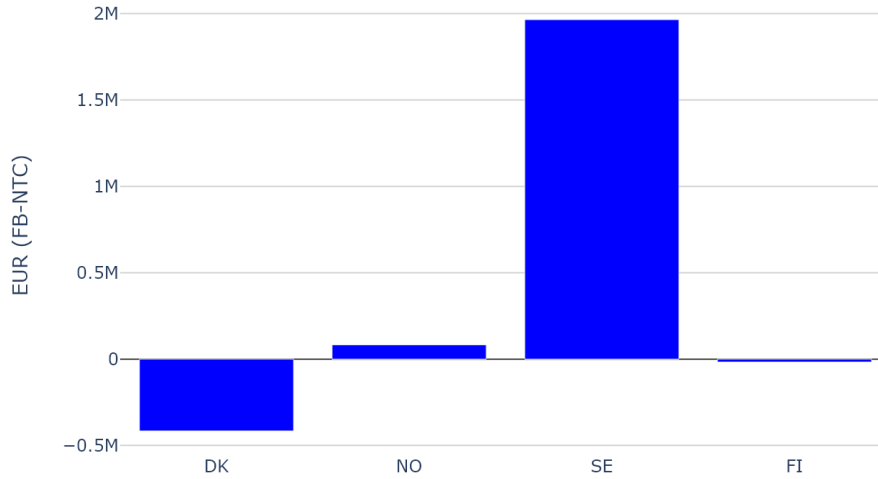




Nordics socio-economic welfare per stakeholder and day

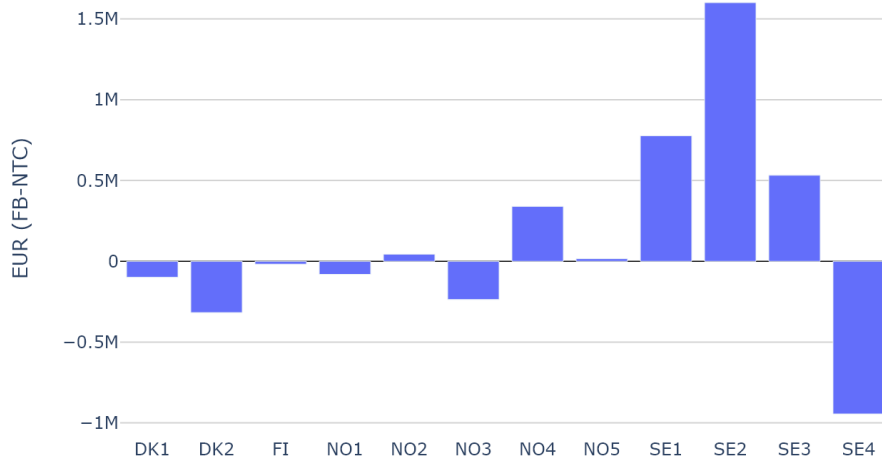


Total Nordic socio-economic welfare per country



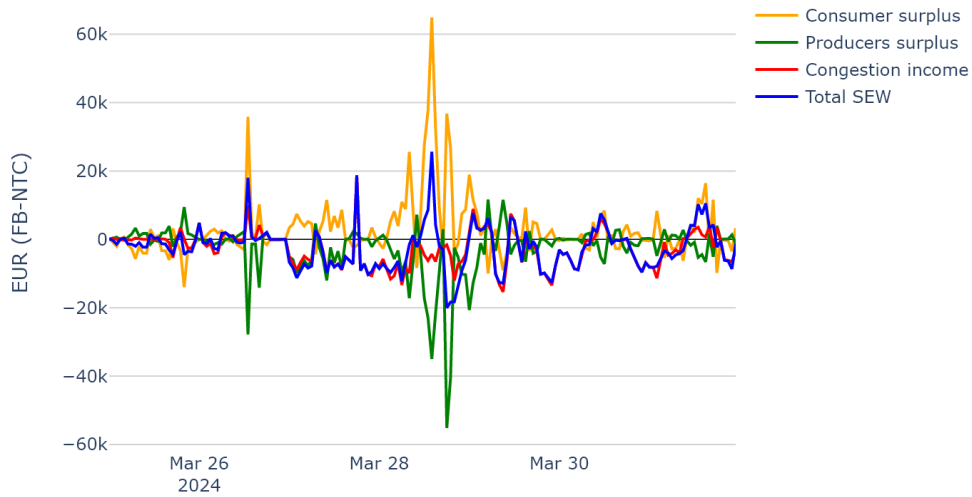


Socio economic welfaregain FB-NTC per BZ - Total_sew



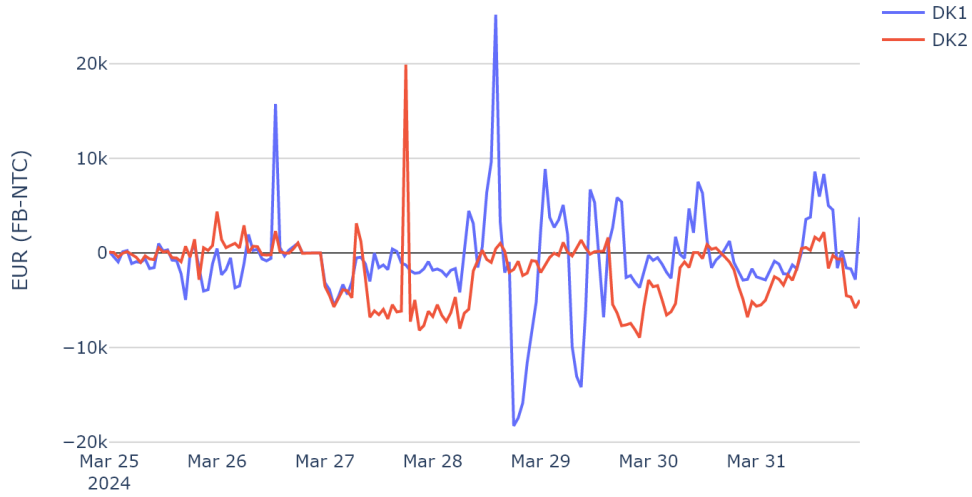
Denmark

DK, socio-economic welfare per stakeholder and country

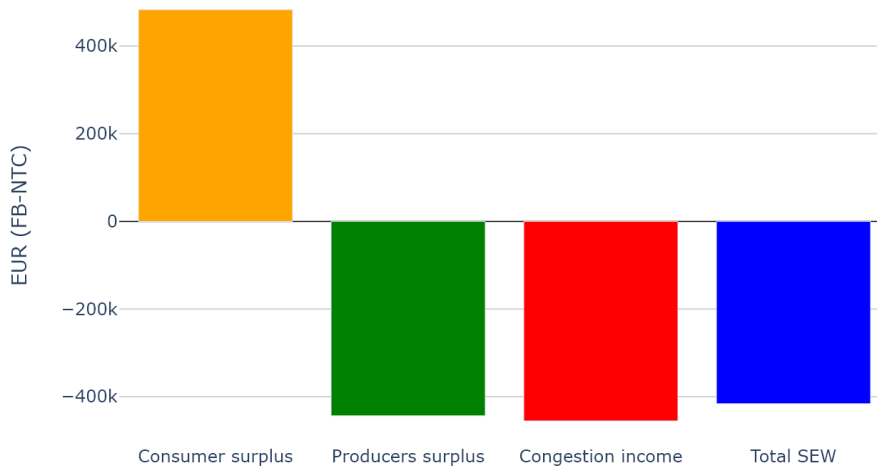




Total socio economic welfaregain FB-NTC per BZ in DK



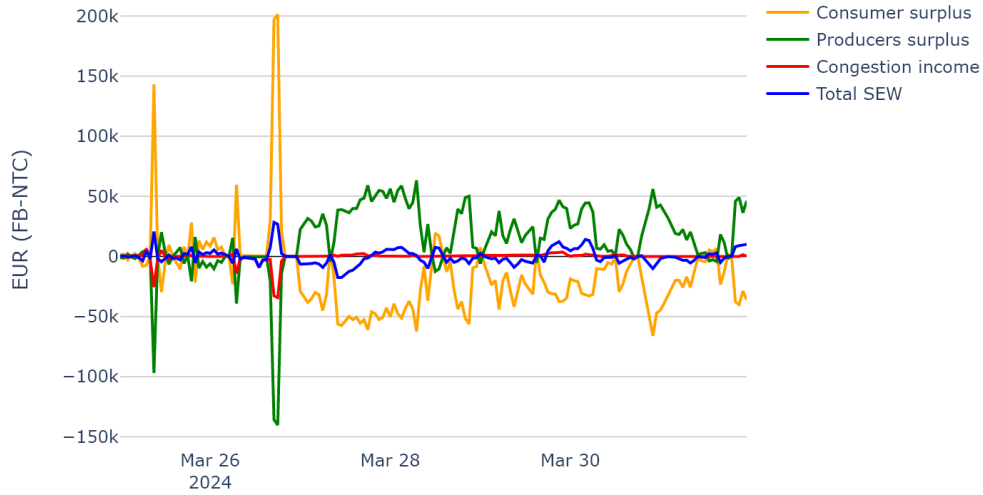
DK, socio-economic welfare per stakeholder and country



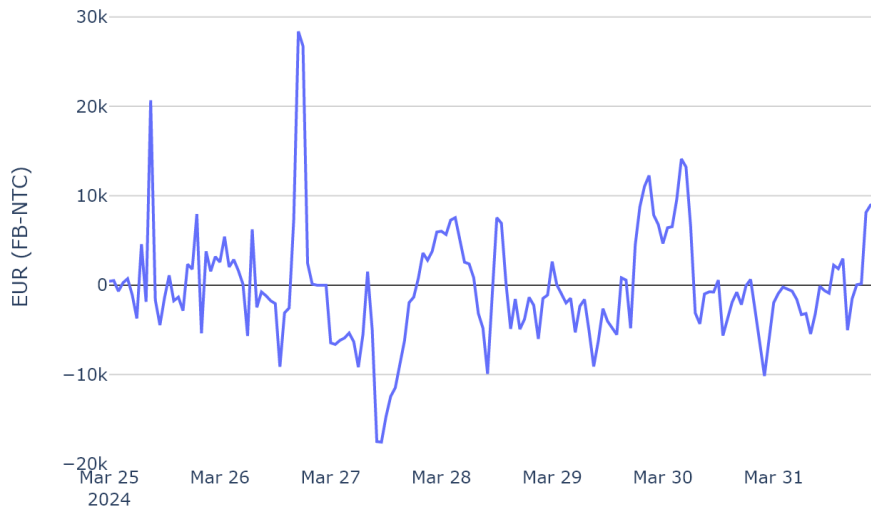


Finland

FI, socio-economic welfare per stakeholder and country

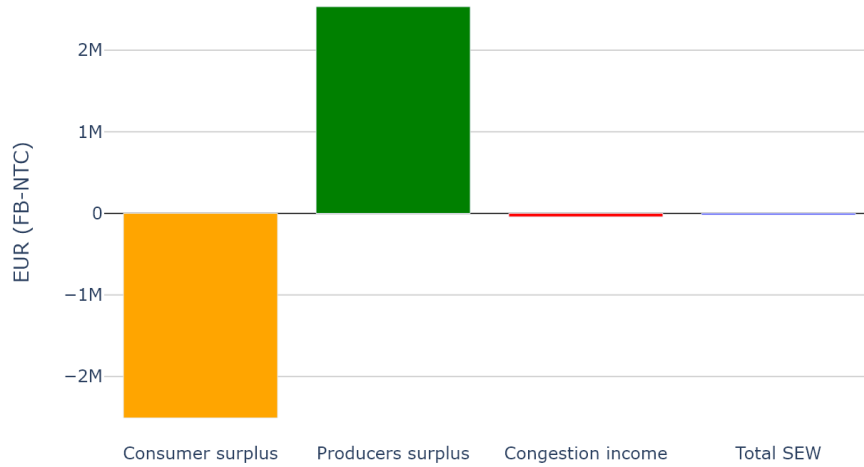


Total socio economic welfaregain FB-NTC per BZ in FI



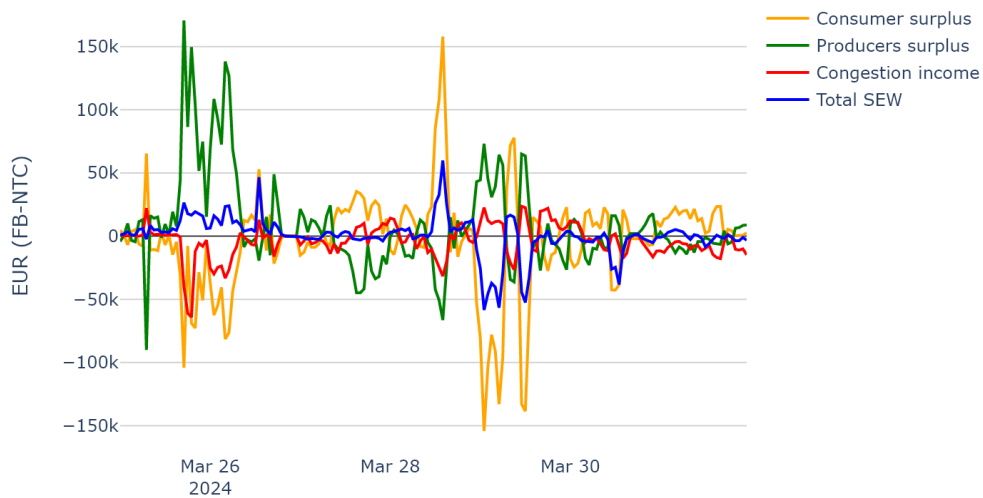


FI, socio-economic welfare per stakeholder and country



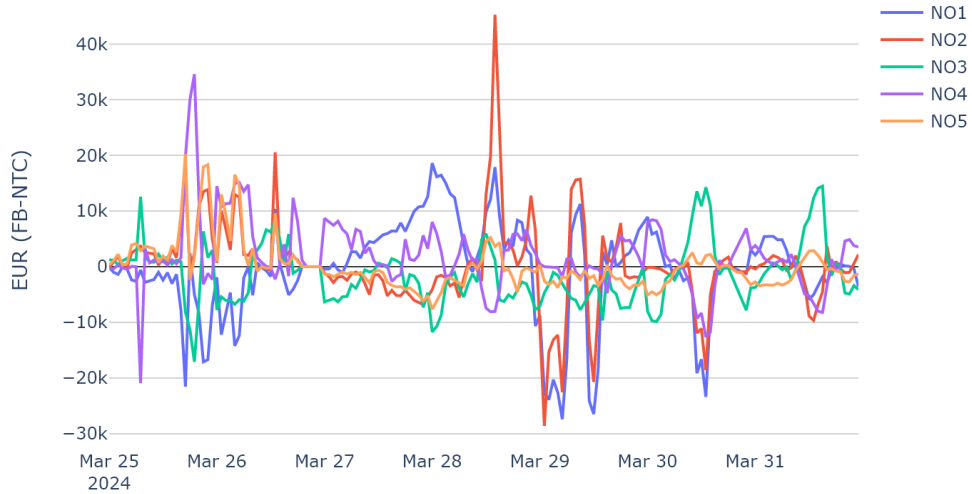
Norway

NO, socio-economic welfare per stakeholder and country

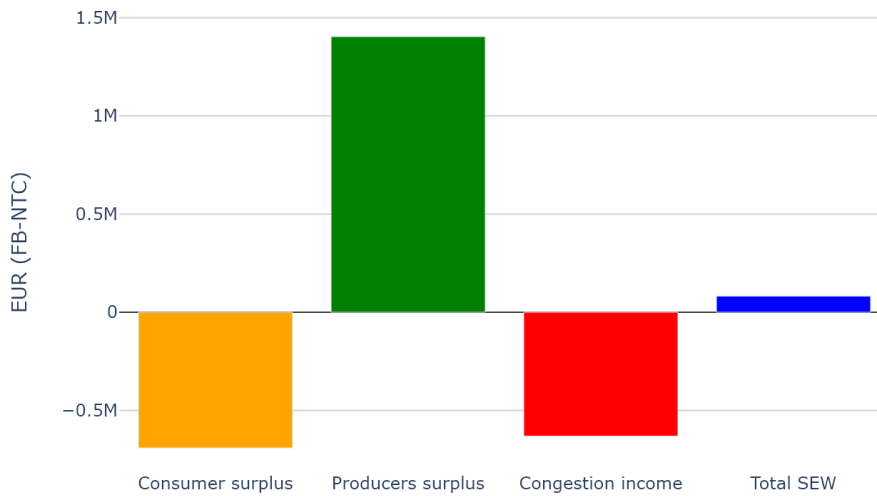




Total socio economic welfaregain FB-NTC per BZ in NO



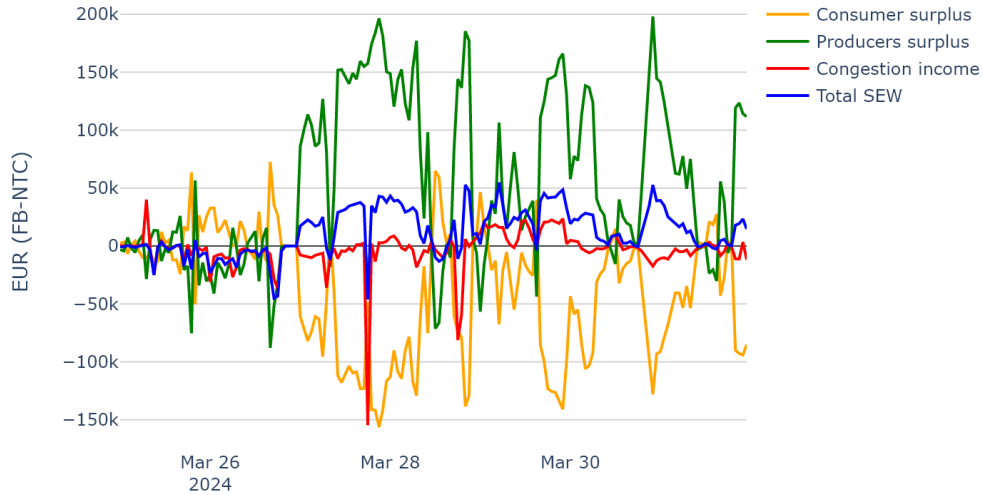
NO, socio-economic welfare per stakeholder and country



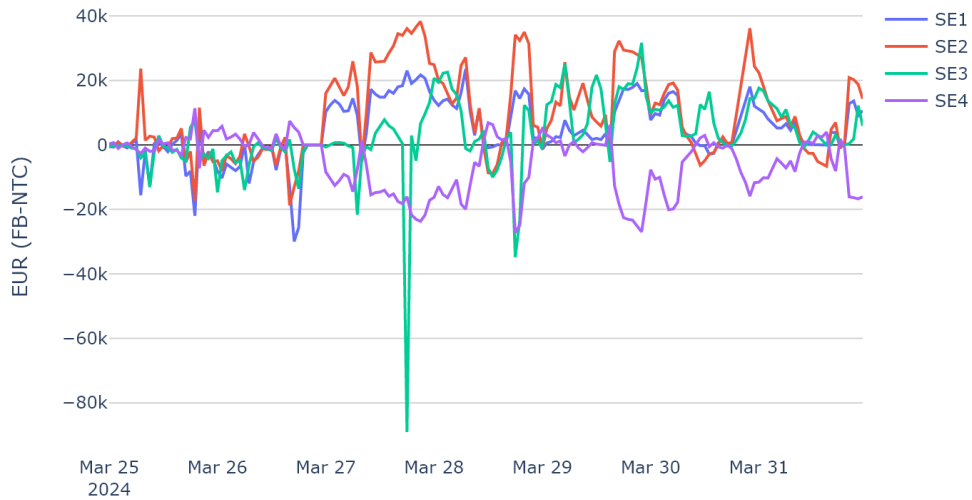


Sweden

SE, socio-economic welfare per stakeholder and country

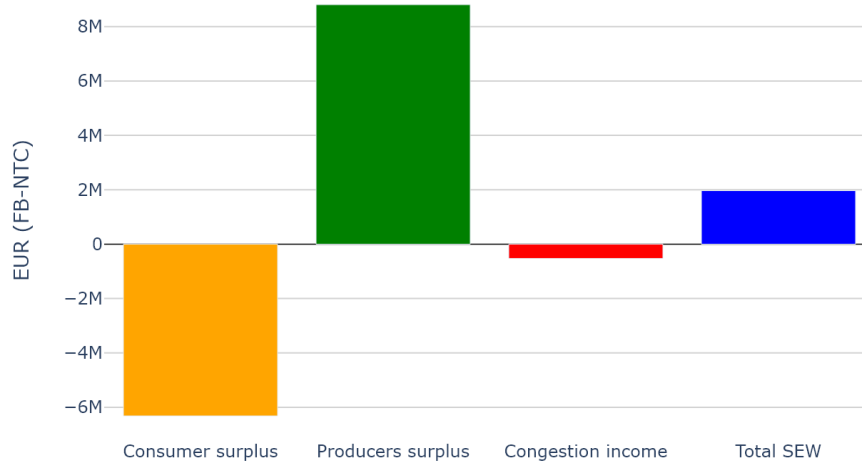


Total socio economic welfaregain FB-NTC per BZ in SE





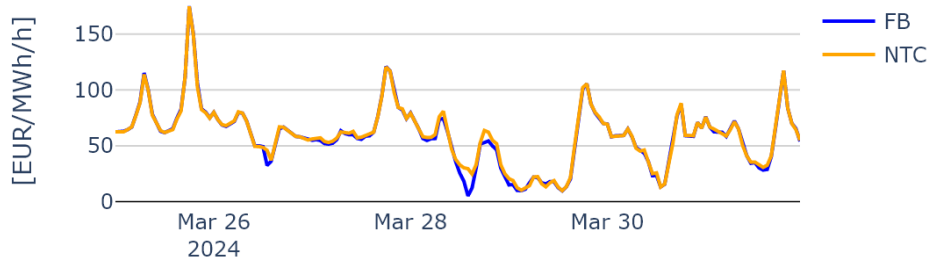
SE, socio-economic welfare per stakeholder and country



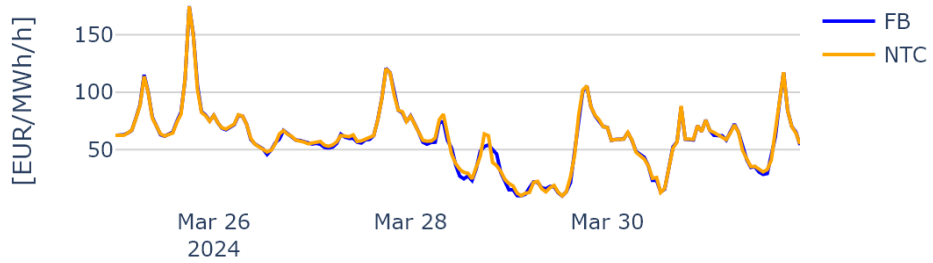


Prices

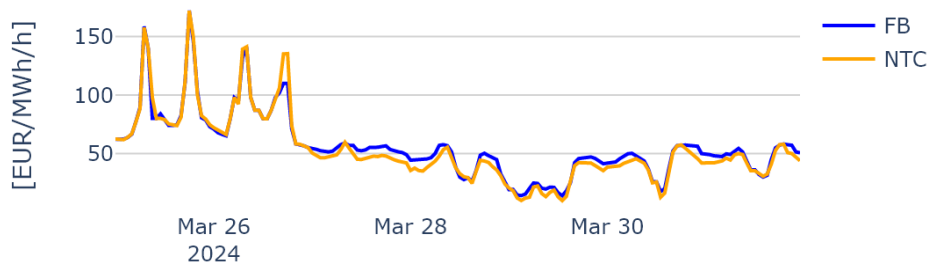
DK1 price



DK2 price

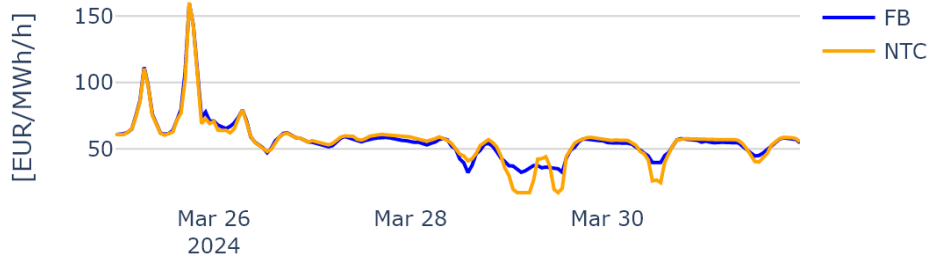


FI price

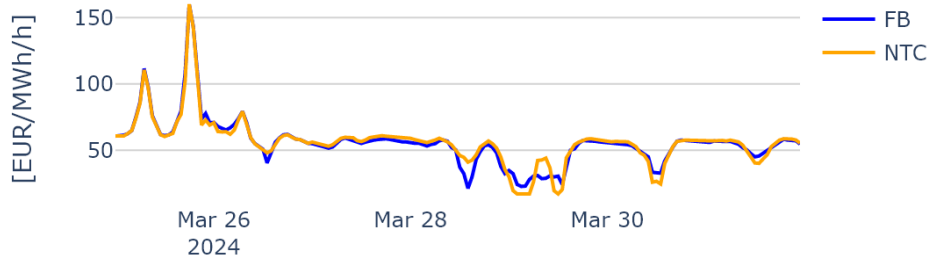




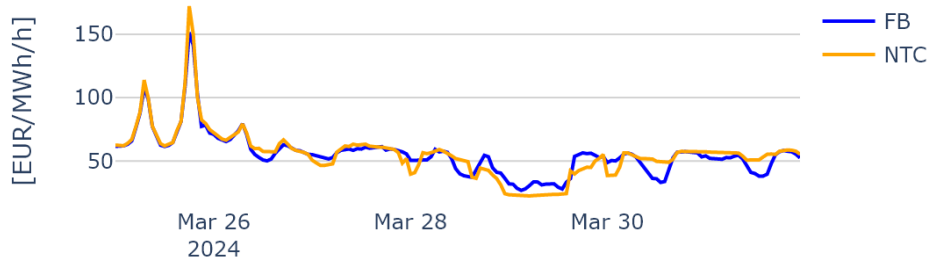
NO1 price



NO2 price

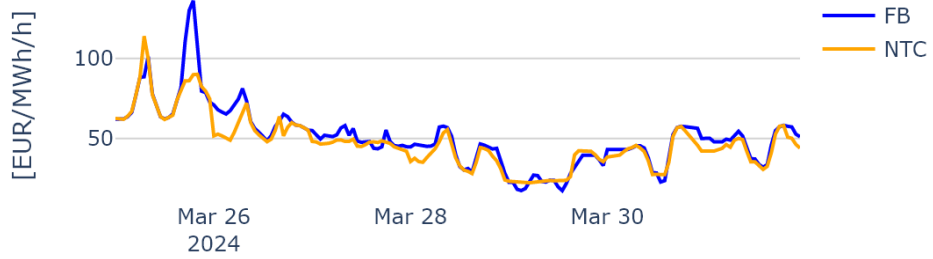


NO3 price

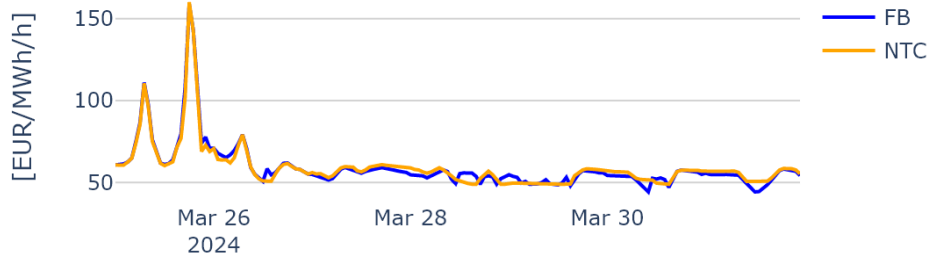




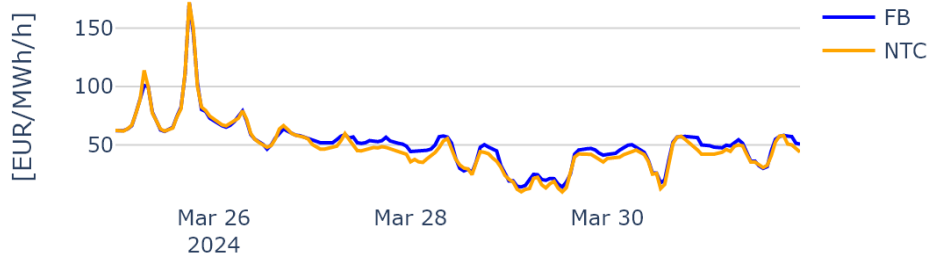
NO4 price



NO5 price

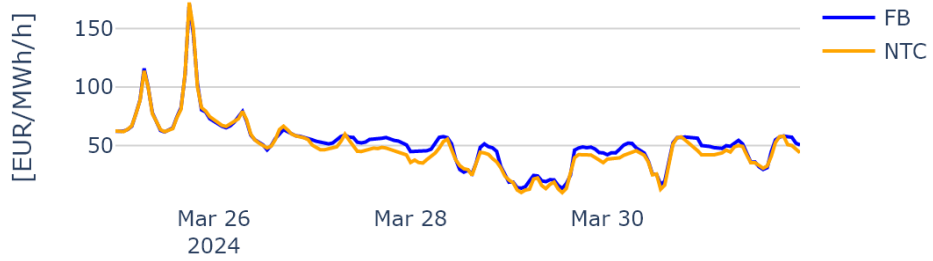


SE1 price

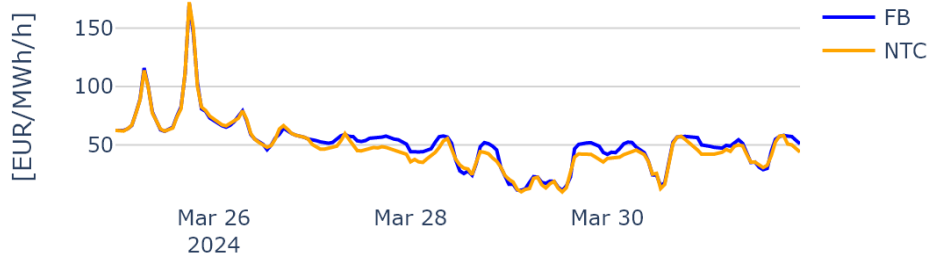




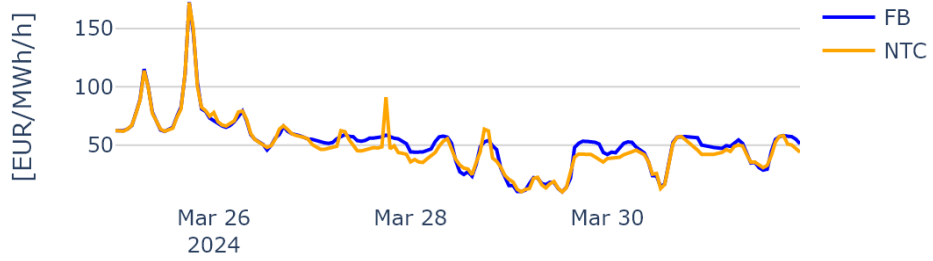
SE2 price



SE3 price



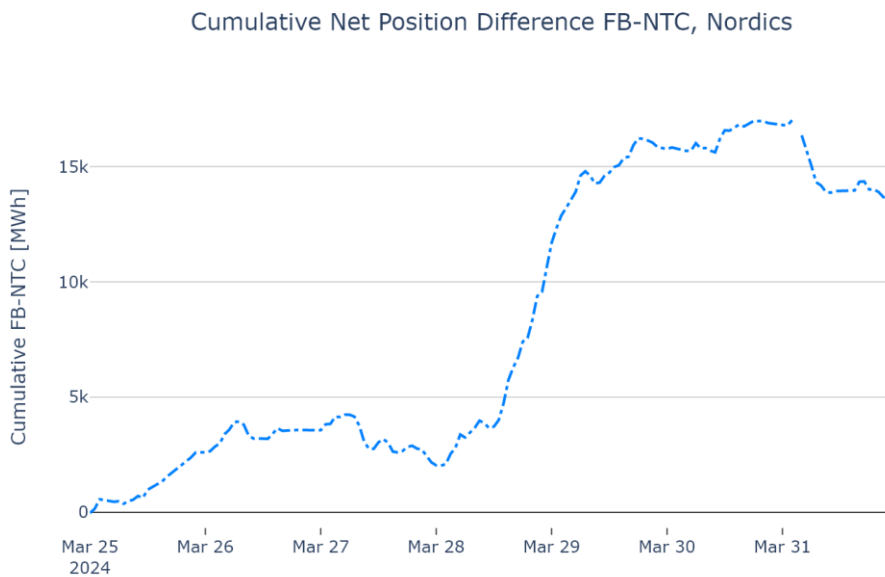
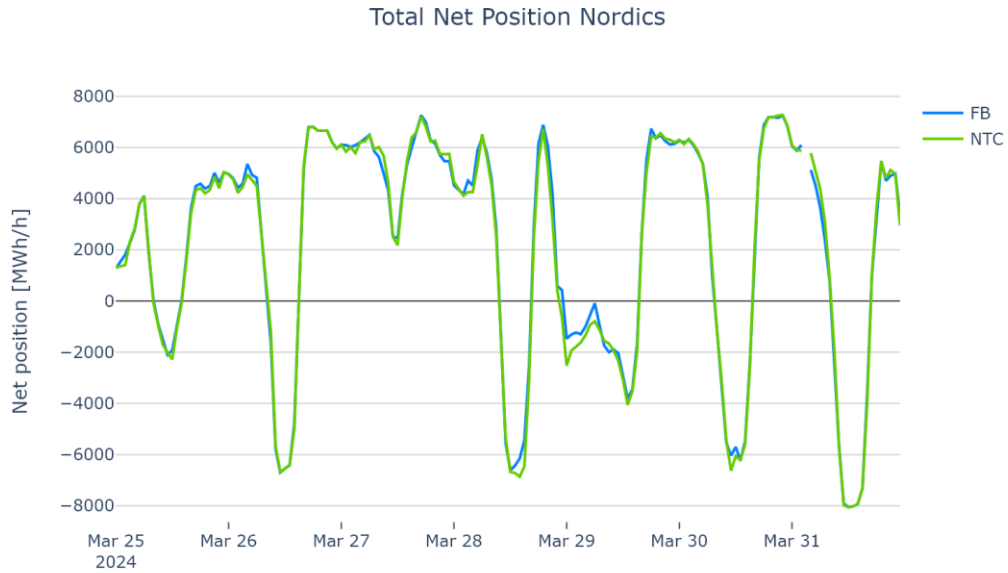
SE4 price





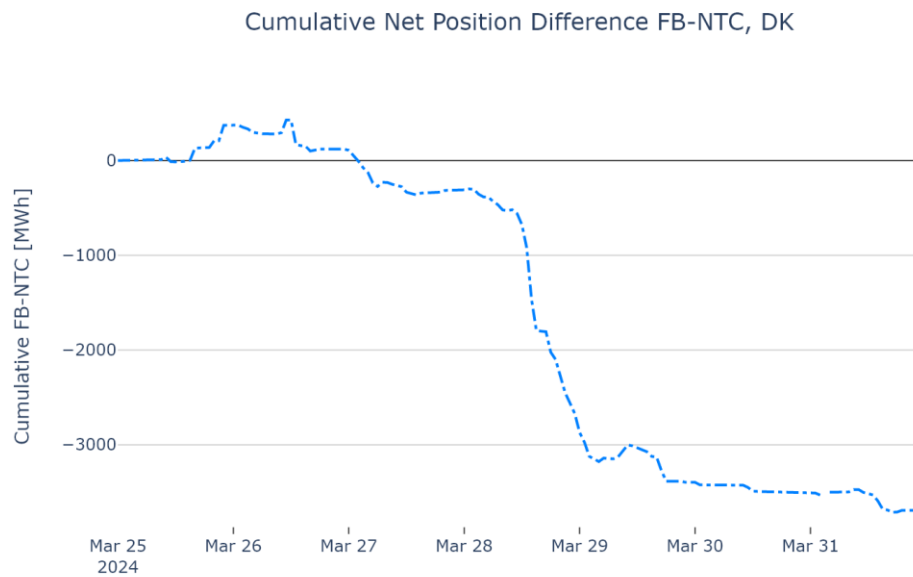
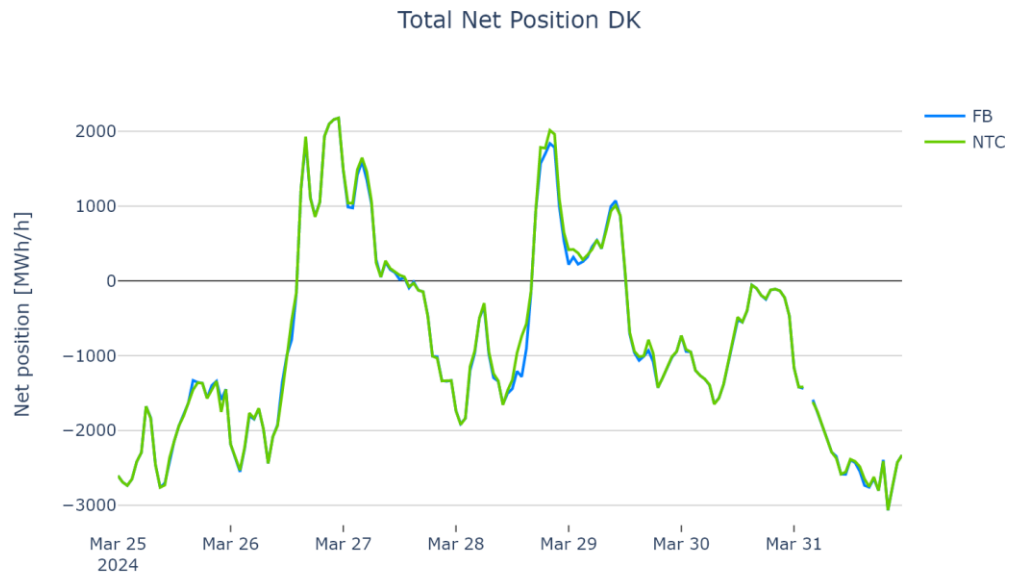
Net positions

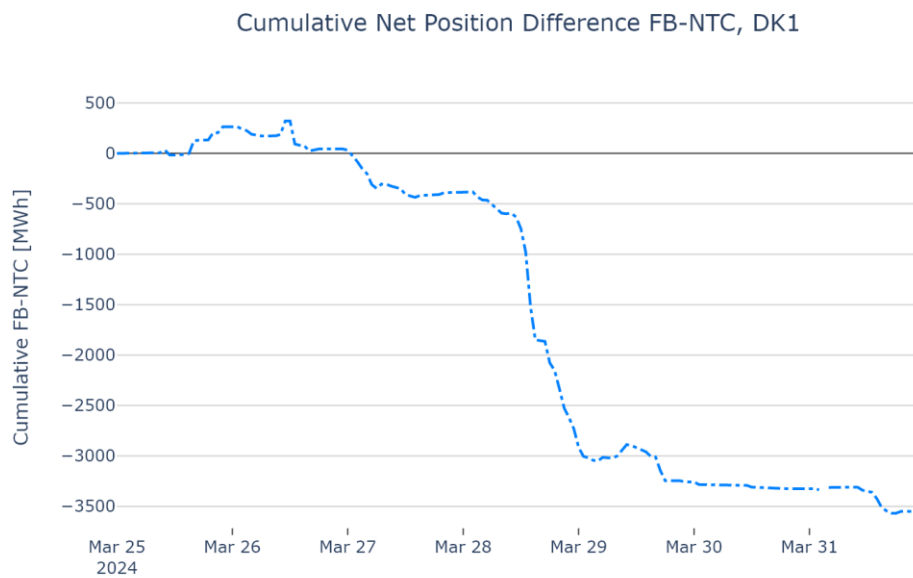
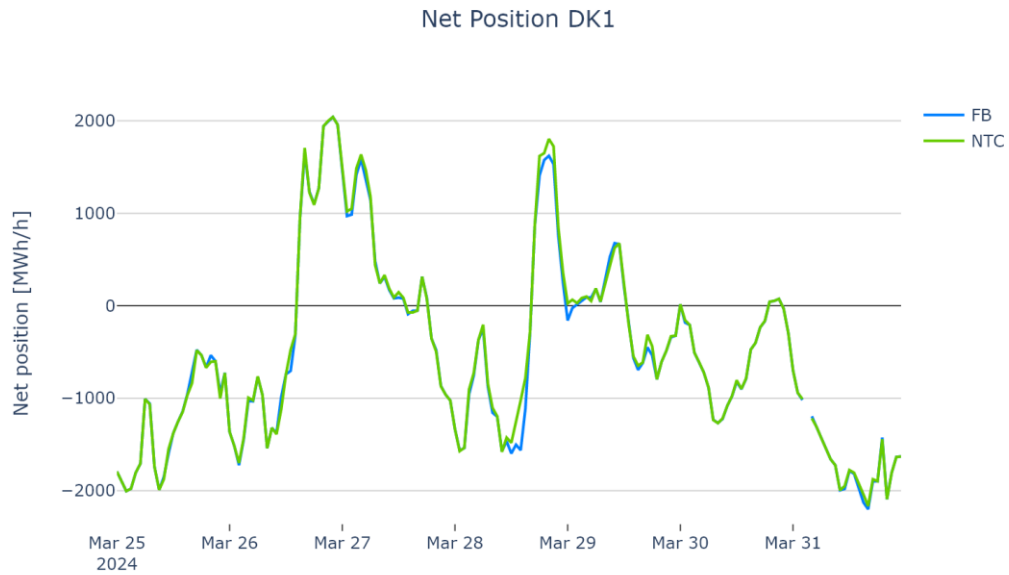
Nordics

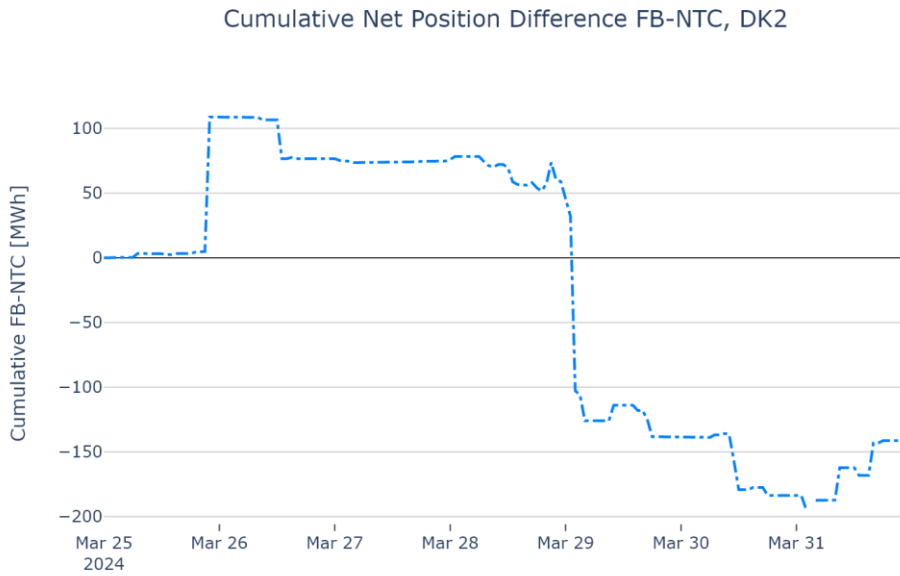
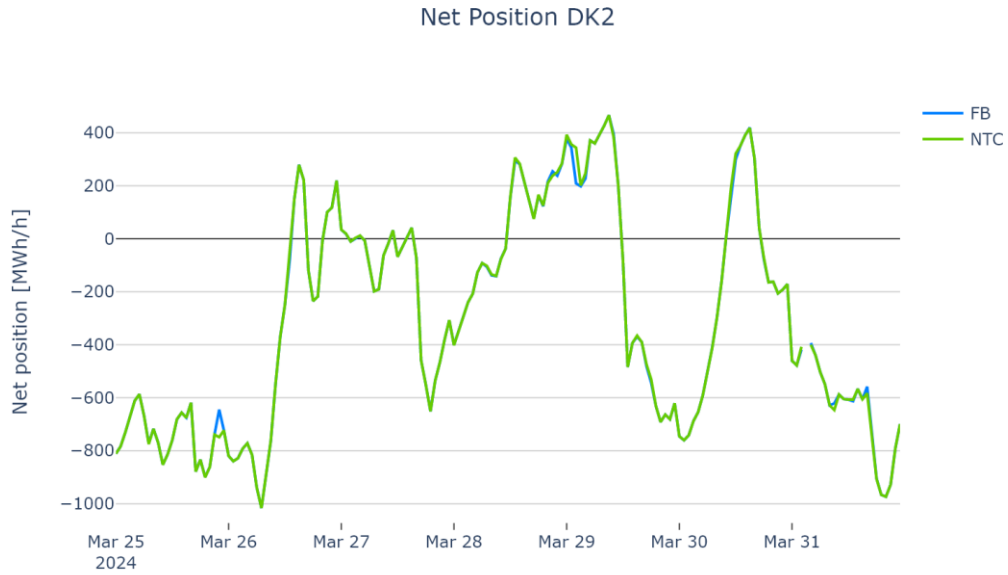




Denmark



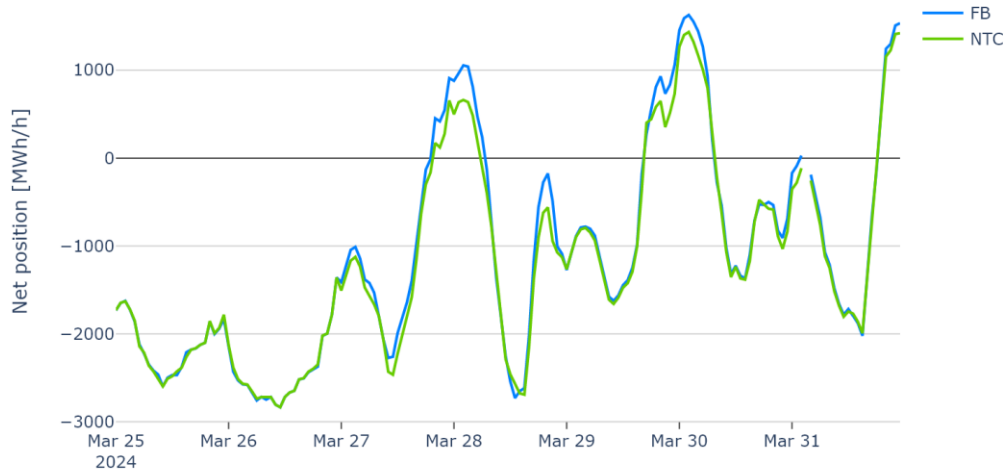




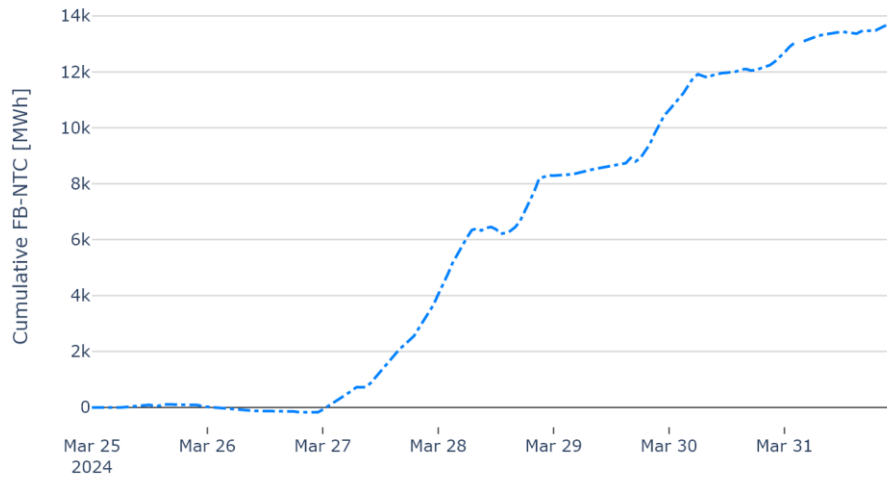


Finland

Total Net Position FI



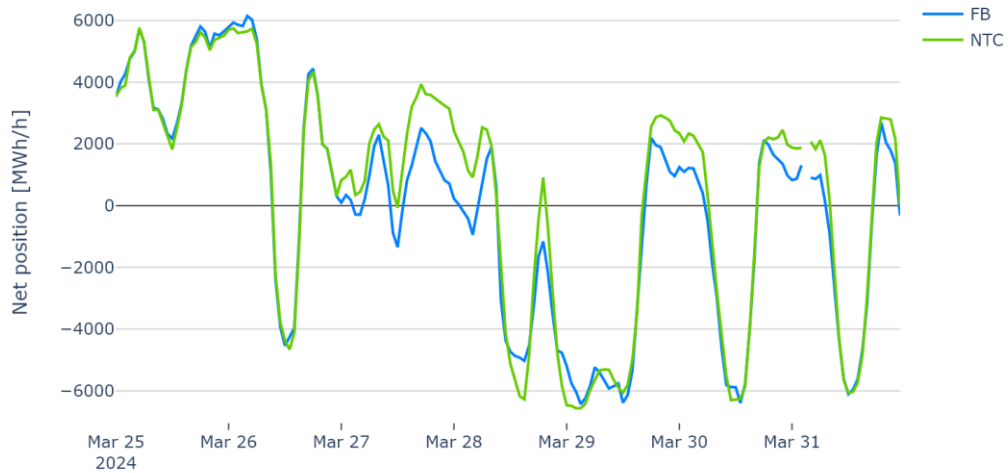
Cumulative Net Position Difference FB-NTC, FI





Norway

Total Net Position NO

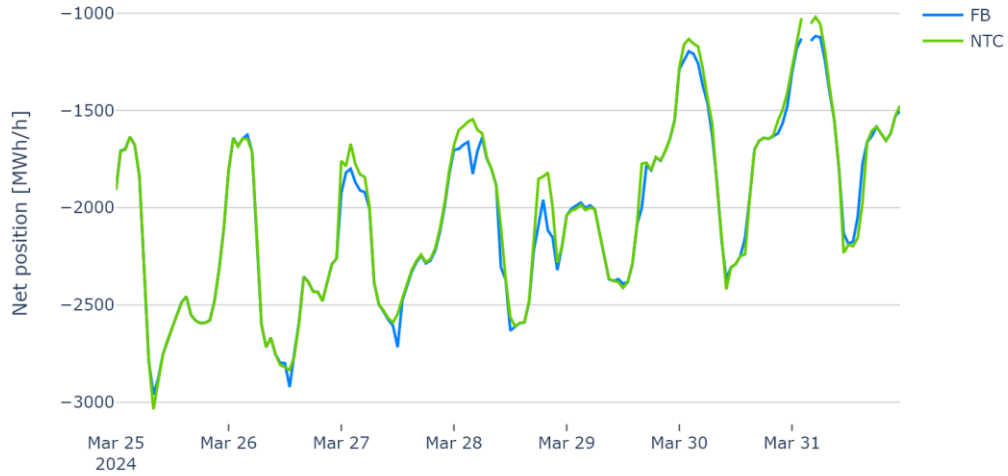


Cumulative Net Position Difference FB-NTC, NO





Net Position NO1

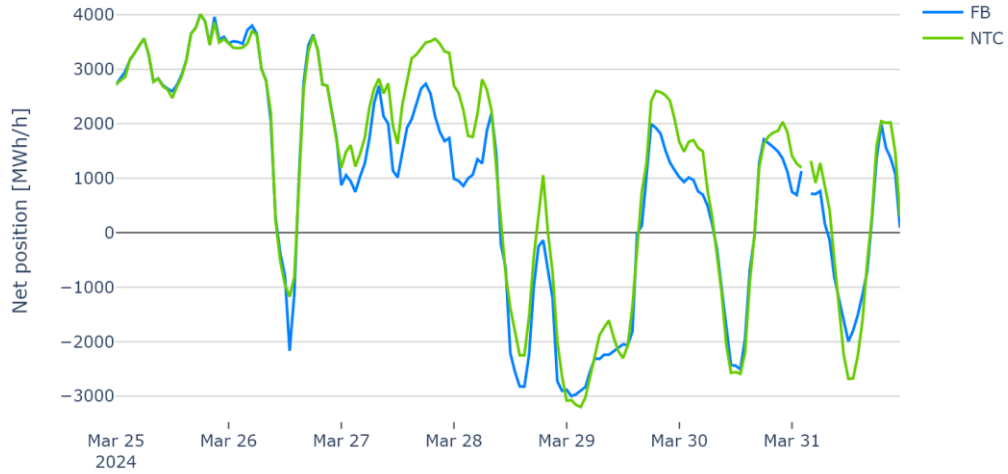


Cumulative Net Position Difference FB-NTC, NO1

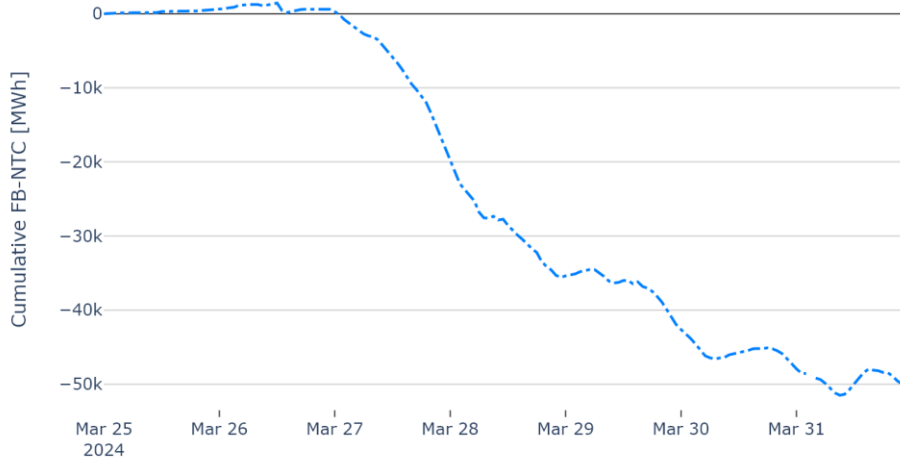




Net Position NO2

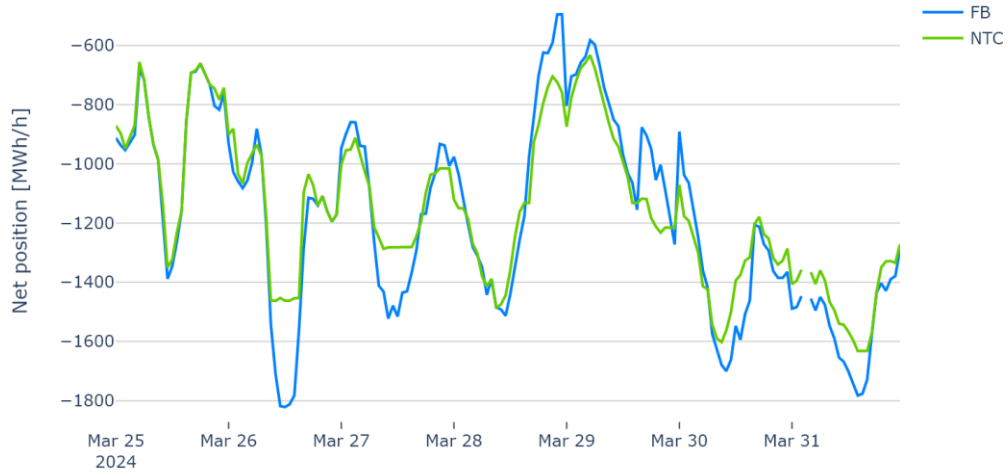


Cumulative Net Position Difference FB-NTC, NO2

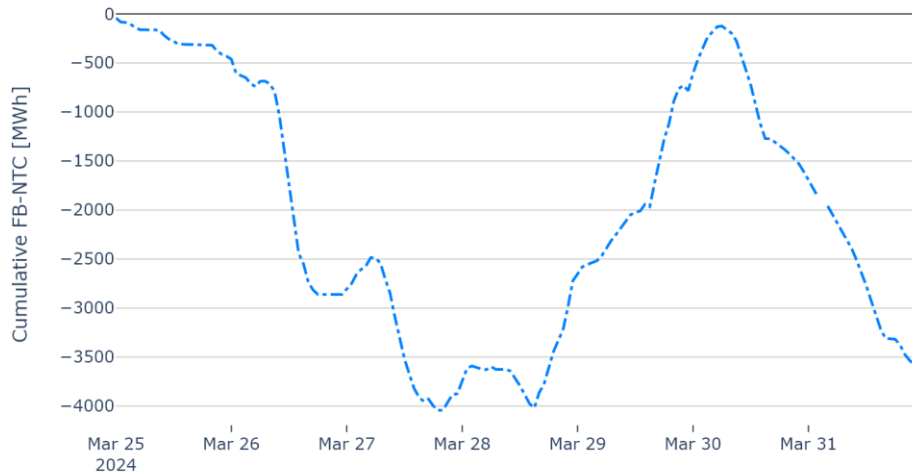




Net Position NO3

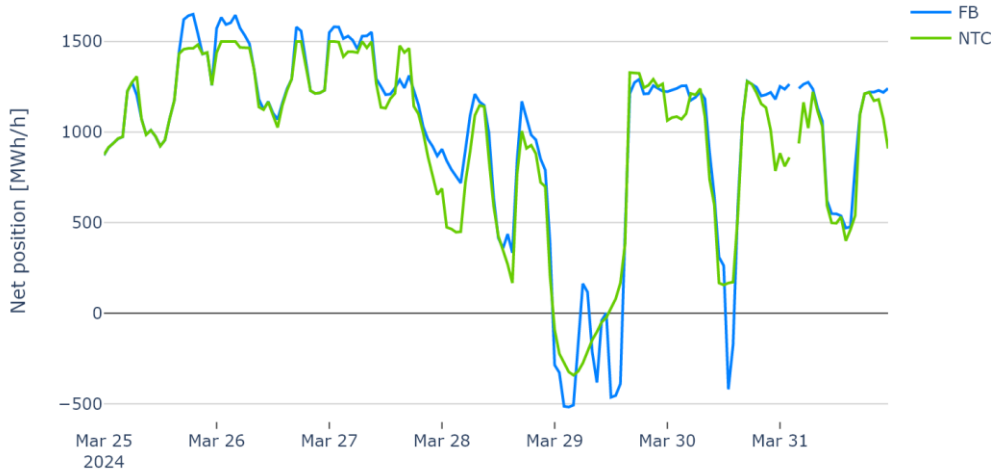


Cumulative Net Position Difference FB-NTC, NO3





Net Position NO4

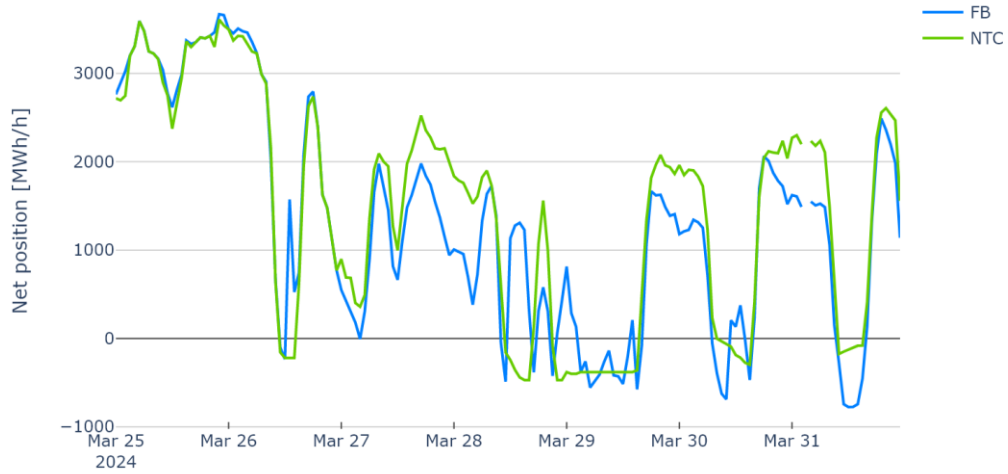


Cumulative Net Position Difference FB-NTC, NO4





Net Position NO5



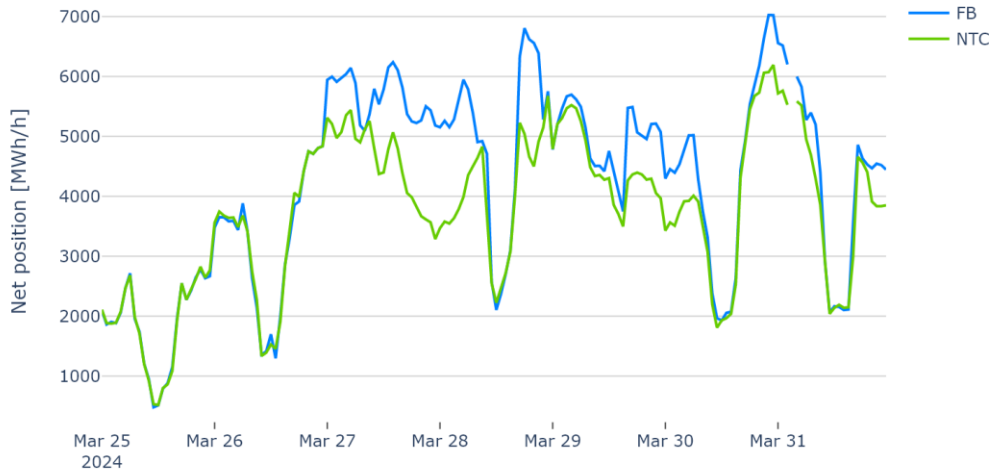
Cumulative Net Position Difference FB-NTC, NO5



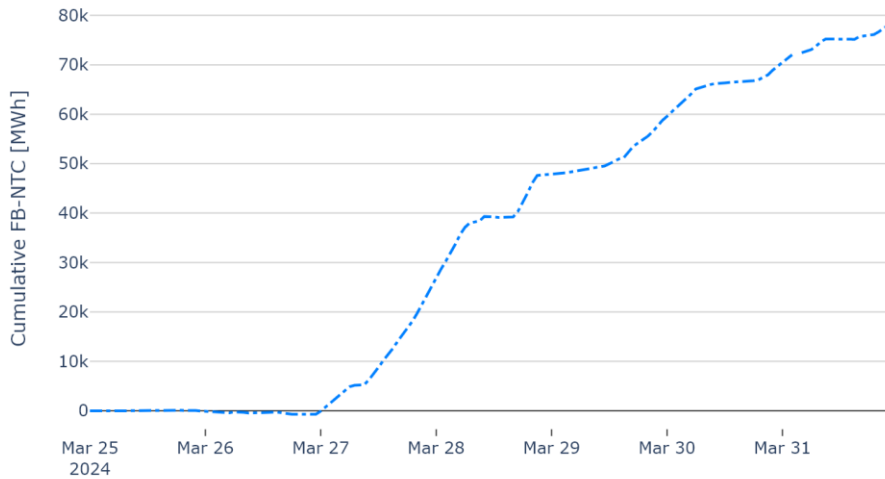


Sweden

Total Net Position SE

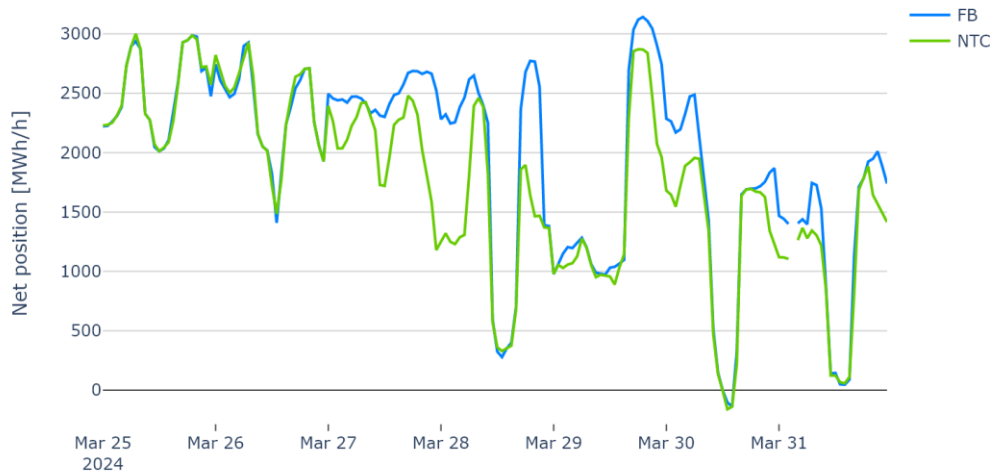


Cumulative Net Position Difference FB-NTC, SE

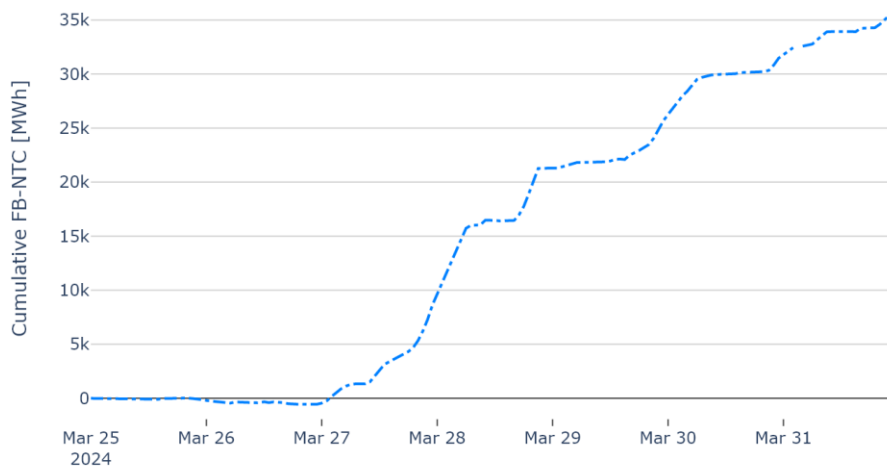




Net Position SE1

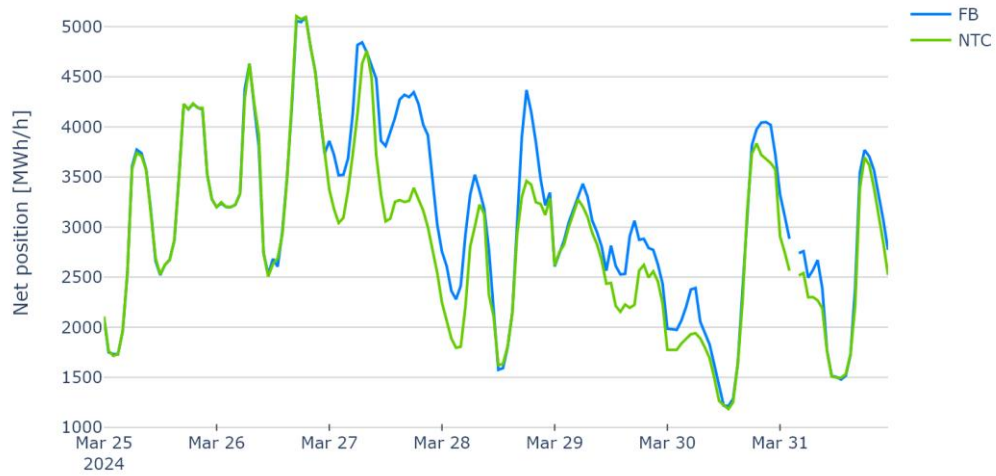


Cumulative Net Position Difference FB-NTC, SE1

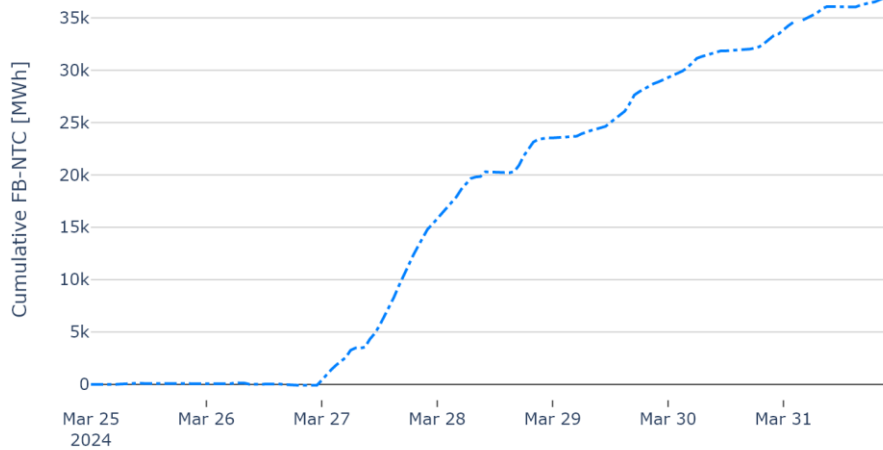


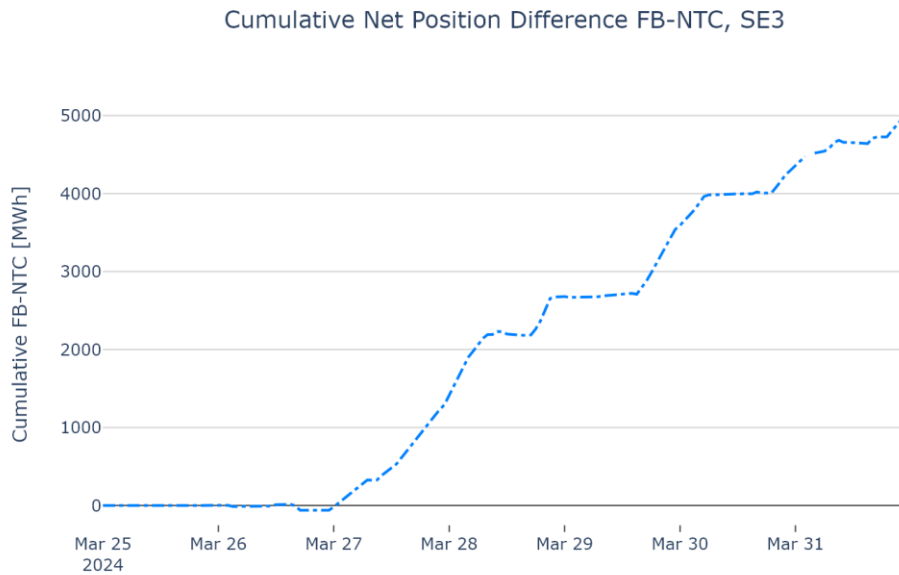
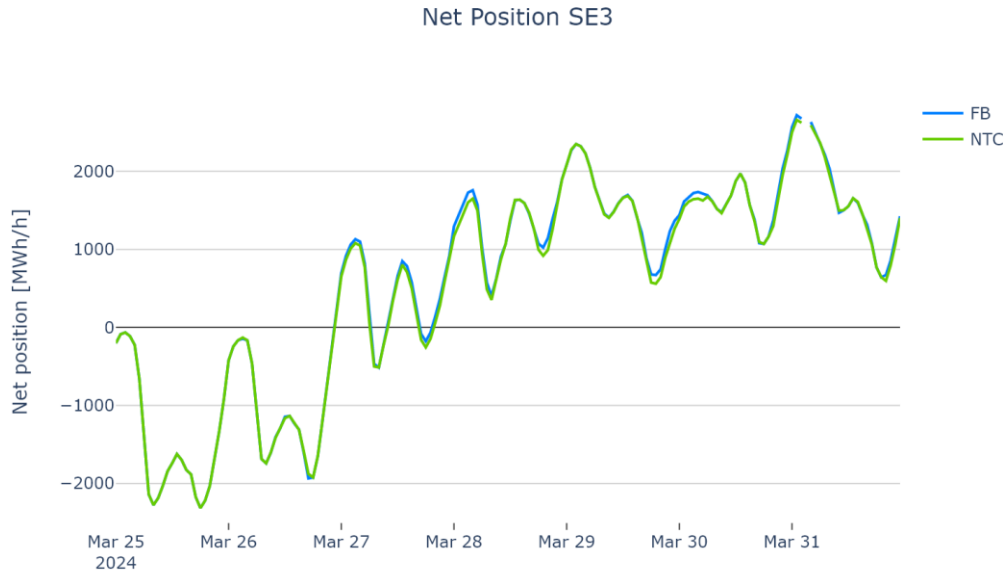


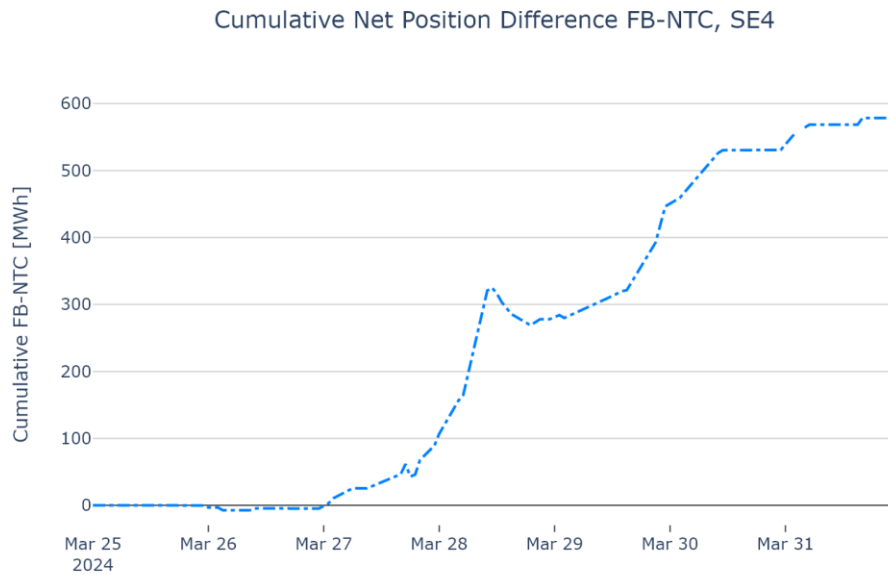
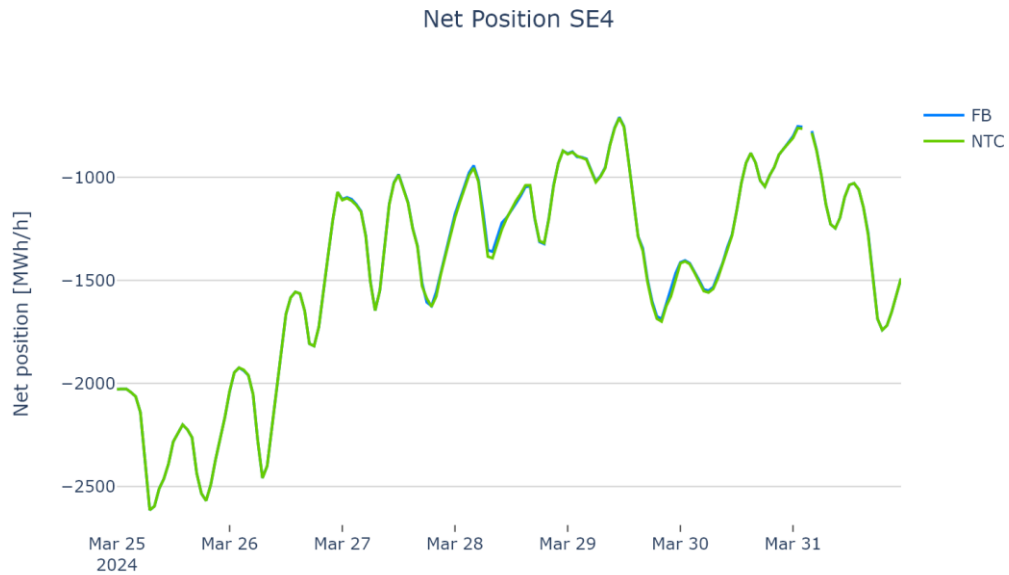
Net Position SE2



Cumulative Net Position Difference FB-NTC, SE2





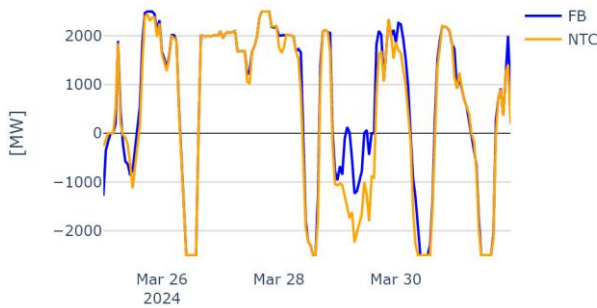




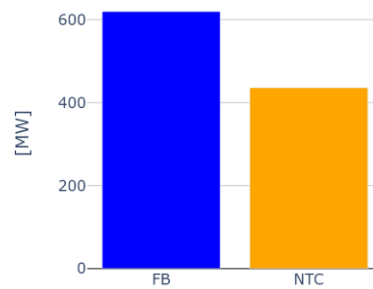
Border flow

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.

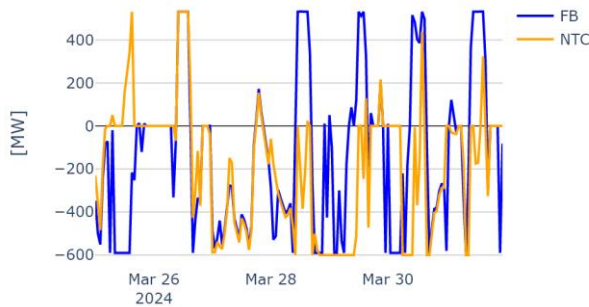
DK1 > DE/LU Physical Flow



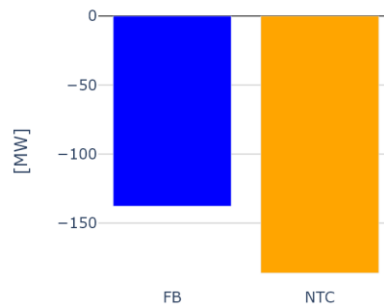
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow

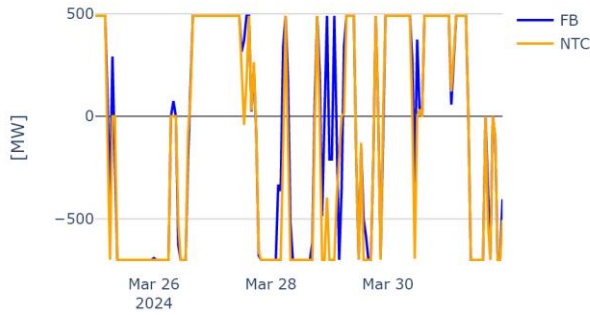


DK1 > DK2 Average flow on border

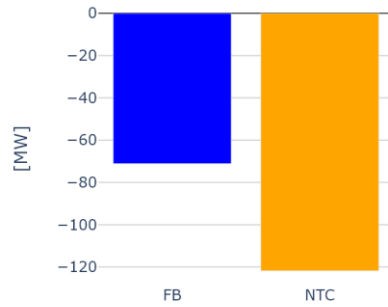




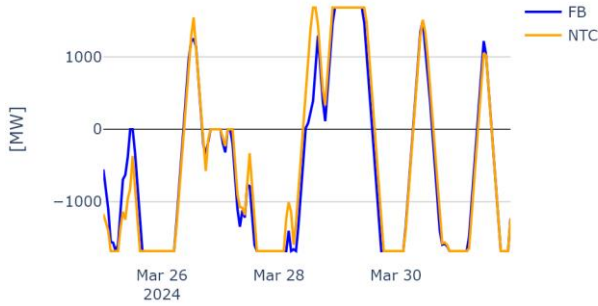
DK1 > NL Physical Flow



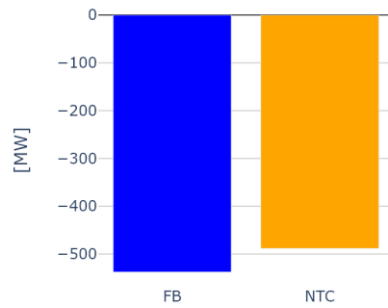
DK1 > NL Average flow on border



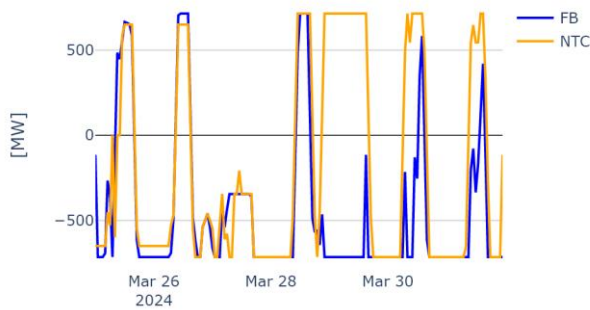
DK1 > NO2 Physical Flow



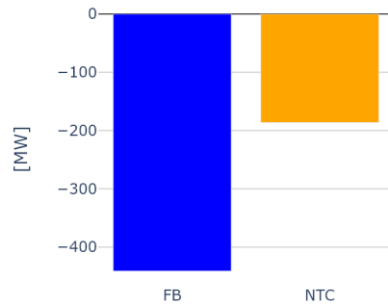
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow



DK1 > SE3 Average flow on border

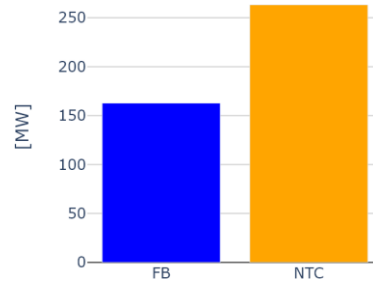




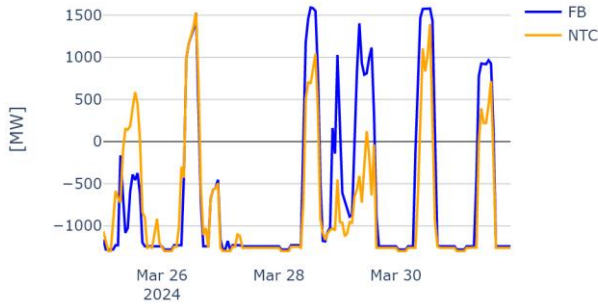
DK2 > DE/LU Physical Flow



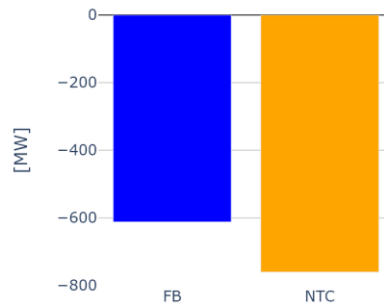
DK2 > DE/LU Average flow on border



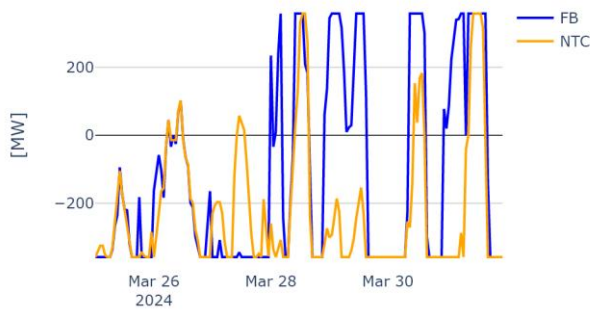
DK2 > SE4 Physical Flow



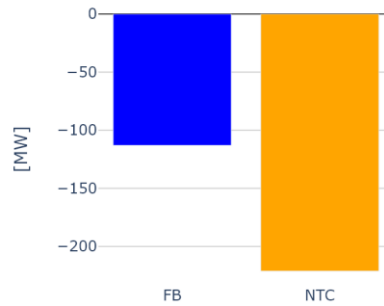
DK2 > SE4 Average flow on border



EE > FI Physical Flow

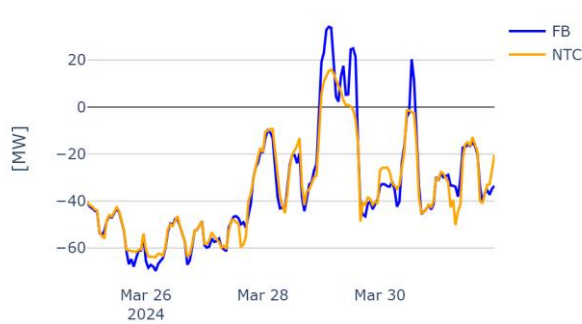


EE > FI Average flow on border

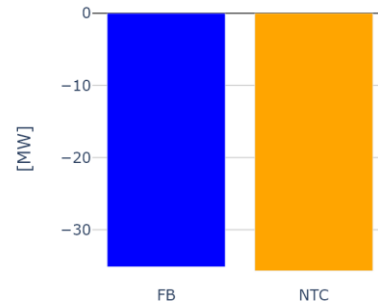




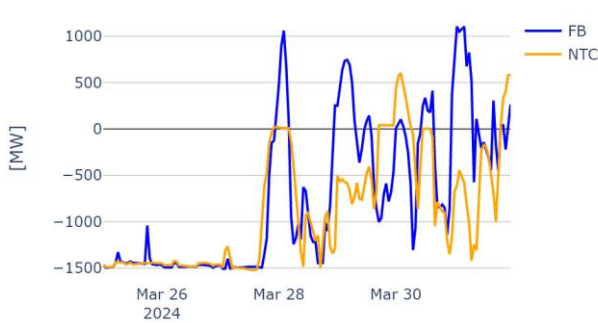
FI > NO4 Physical Flow



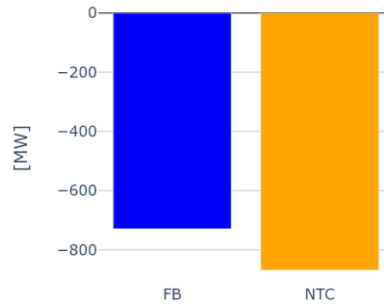
FI > NO4 Average flow on border



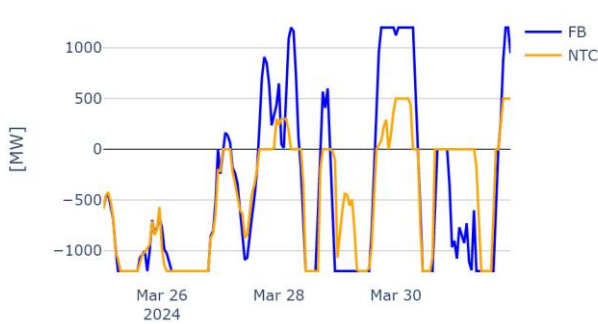
FI > SE1 Physical Flow



FI > SE1 Average flow on border



FI > SE3 Physical Flow

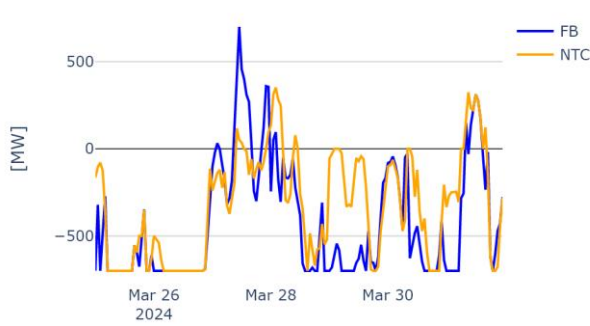


FI > SE3 Average flow on border





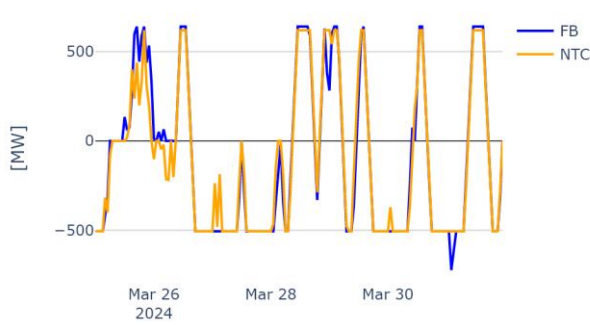
LT > SE4 Physical Flow



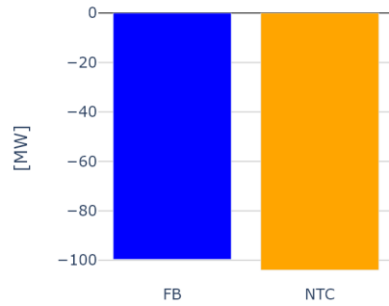
LT > SE4 Average flow on border



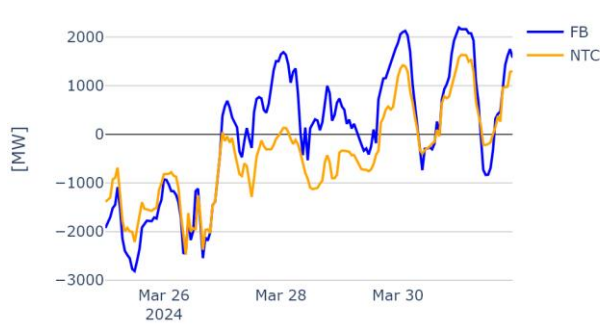
NL > NO2 Physical Flow



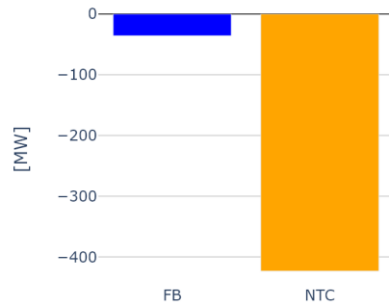
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

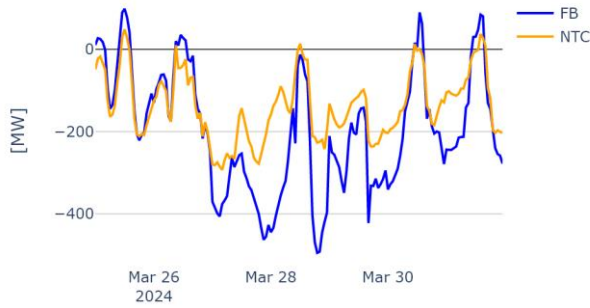


NO1 > NO2 Average flow on border

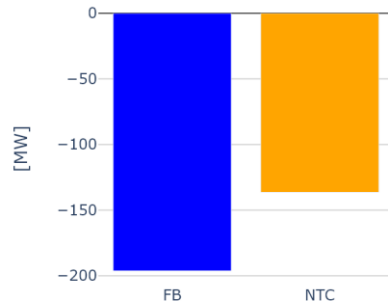




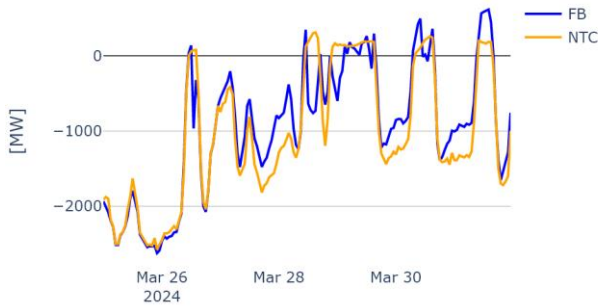
NO1 > NO3 Physical Flow



NO1 > NO3 Average flow on border



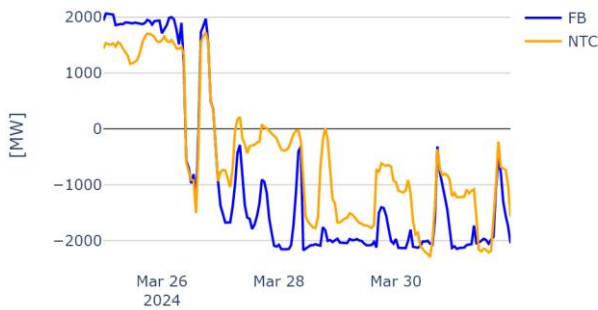
NO1 > NO5 Physical Flow



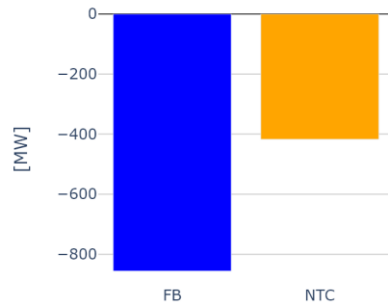
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow



NO1 > SE3 Average flow on border





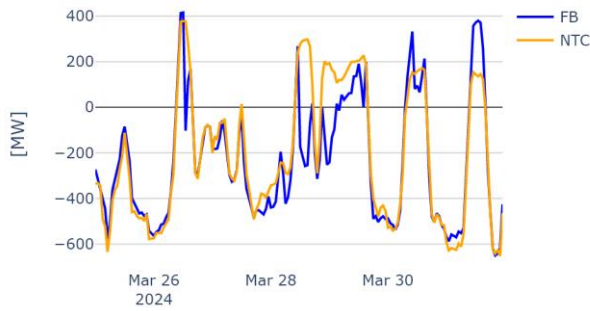
NO2 > DE/LU Physical Flow



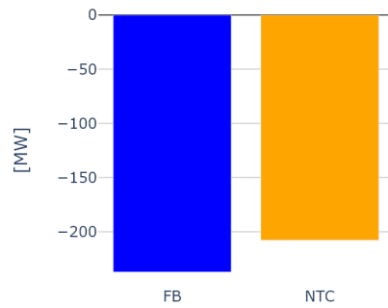
NO2 > DE/LU Average flow on border



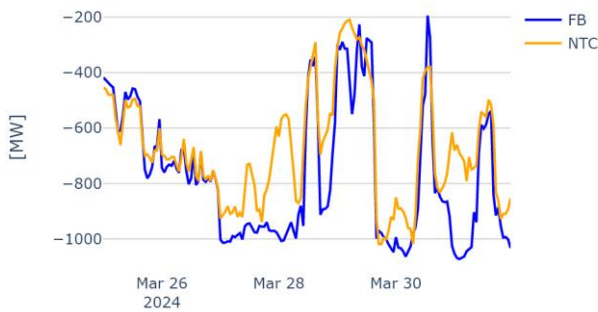
NO2 > NO5 Physical Flow



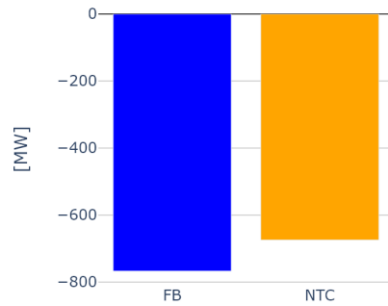
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

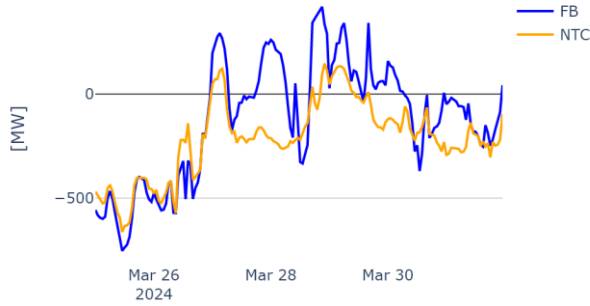


NO3 > NO4 Average flow on border

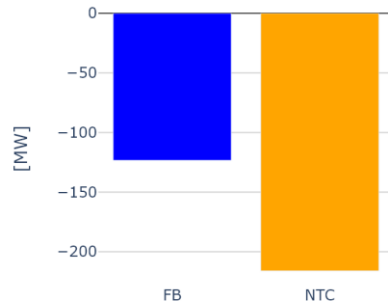




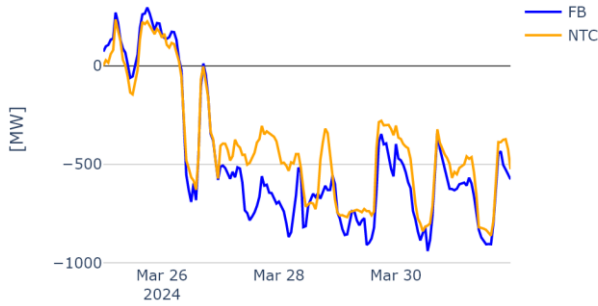
NO3 > NO5 Physical Flow



NO3 > NO5 Average flow on border



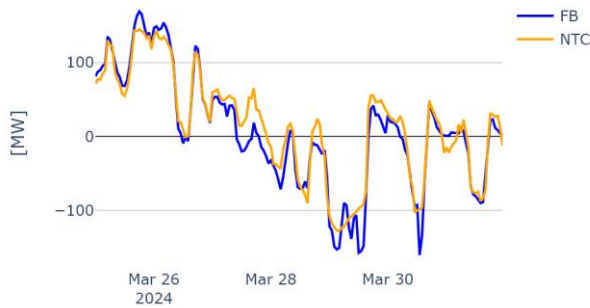
NO3 > SE2 Physical Flow



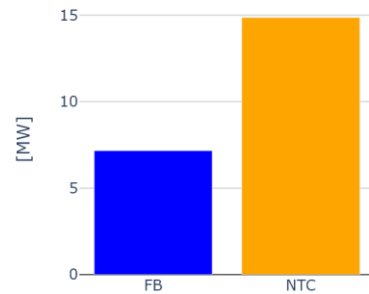
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

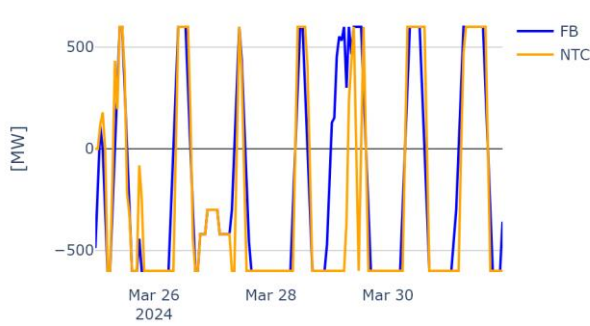


NO4 > SE2 Average flow on border

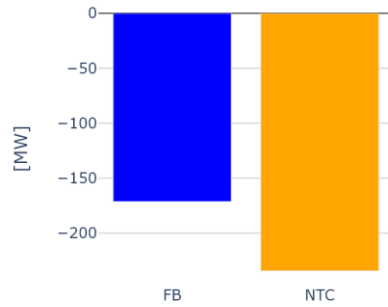




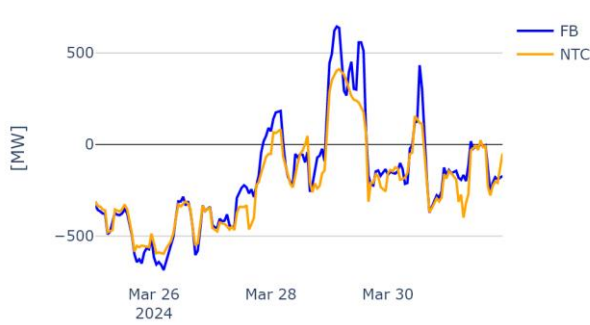
PL > SE4 Physical Flow



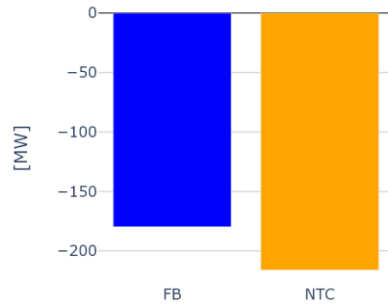
PL > SE4 Average flow on border



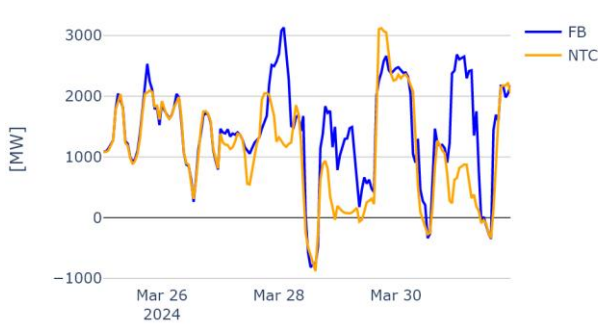
SE1 > NO4 Physical Flow



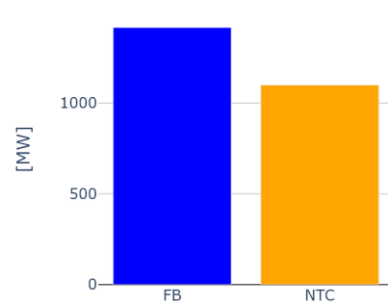
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow

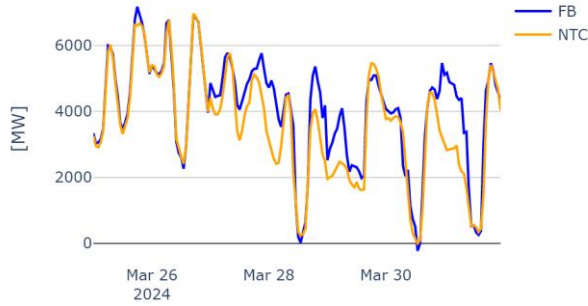


SE1 > SE2 Average flow on border





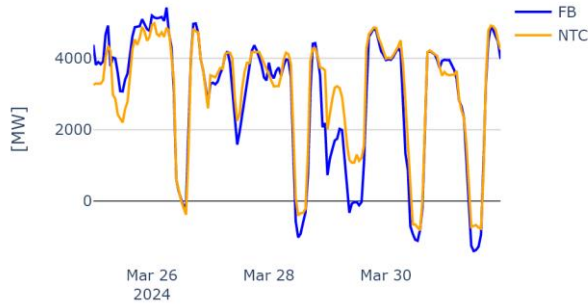
SE2 > SE3 Physical Flow



SE2 > SE3 Average flow on border



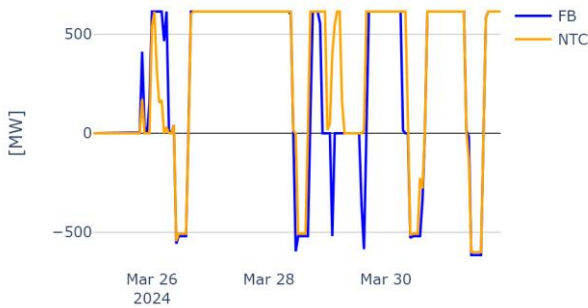
SE3 > SE4 Physical Flow



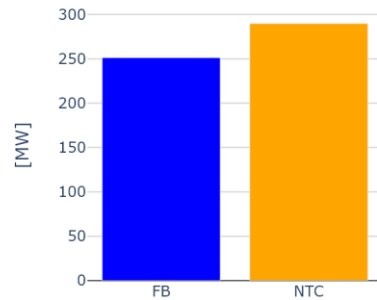
SE3 > SE4 Average flow on border



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	1539576	4
DK1 > DK2	66184	1
DK1 > NL	708613	8
DK1 > NO2	1810117	9
DK1 > SE3	942372	8
DK2 > DE/LU	646343	5
DK2 > SE4	1532144	7
EE > FI	124426	2
FI > NO4	54091	6
FI > SE1	1129294	5
FI > SE3	1032562	5
LT > SE4	681980	6
NL > NO2	1098586	15
NO1 > NO2	13419	0
NO1 > NO3	37181	1
NO1 > NO5	-88048	0
NO1 > SE3	1878197	6
NO2 > DE/LU	2290564	14
NO2 > NO5	-15095	0
NO3 > NO4	610400	5
NO3 > NO5	14020	1
NO3 > SE2	464676	4
NO4 > SE2	22906	1
PL > SE4	1080950	11
SE1 > NO4	86226	1
SE1 > SE2	147654	0
SE2 > SE3	55611	0
SE3 > SE4	112039	0
SE4 > DE/LU	1129725	12



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	0	0	0
DK1 > NL	0	0	0
DK1 > NO2	8	-30374	-5
DK1 > SE3	21	-18547	-1
DK2 > DE/LU	2	-1250	-1
DK2 > SE4	4	-931	0
EE > FI	1	-8	0
FI > NO4	19	-829	-2
FI > SE1	4	-148	0
FI > SE3	14	-3178	0
LT > SE4	22	-3569	0
NL > NO2	4	-5355	-7
NO1 > NO2	28	-39766	-3
NO1 > NO3	35	-21453	-2
NO1 > NO5	41	-111919	-3
NO1 > SE3	2	-270	0
NO2 > DE/LU	4	-6350	-2
NO2 > NO5	44	-50424	-4
NO3 > NO4	22	-25785	-1
NO3 > NO5	32	-67215	-5
NO3 > SE2	4	-4884	-1
NO4 > SE2	31	-3599	-3
PL > SE4	18	-337204	-28
SE1 > NO4	29	-14378	-1
SE1 > SE2	19	-12371	0
SE2 > SE3	35	-146185	-1
SE3 > SE4	17	-25151	-1
SE4 > DE/LU	1	-94	-5