



Nordic Capacity Calculation Methodology Project (Nordic CCM)

Nordic CCM

External Parallel Run Market Report
Appendix for Week 24 of 2024



Contents

Domain validation	2
Socio Economic Welfare.....	3
Prices.....	12
Net positions	16
Border flow	32
Flows per border (FB)	42
Non-Intuitive flows (FB)	43

Domain validation

Energy Delivery Day:	Mon. 10.6	Tue. 11.6	Wed. 12.6	Thu. 13.6	Fri. 14.6	Sat. 15.6	Sun. 16.6
Invalid/missing IGMs	0	0	1	0	0	24	0
Substituted IGMs	0	0	1	0	0	24	0
Invalid CGMs	0	0	0	0	0	0	0
FB domain back-up	0	0	0	0	0	0	0
IVA provision	1	2	1	0	1	1	0
Final domain acceptance (1 TSO =25%)	100%	100%	100%	100%	100%	100%	100%

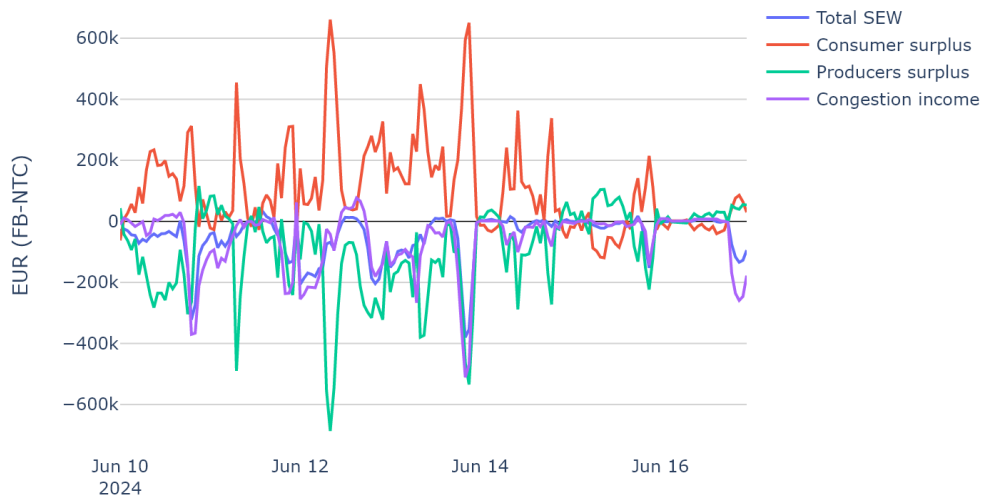


Socio Economic Welfare

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.

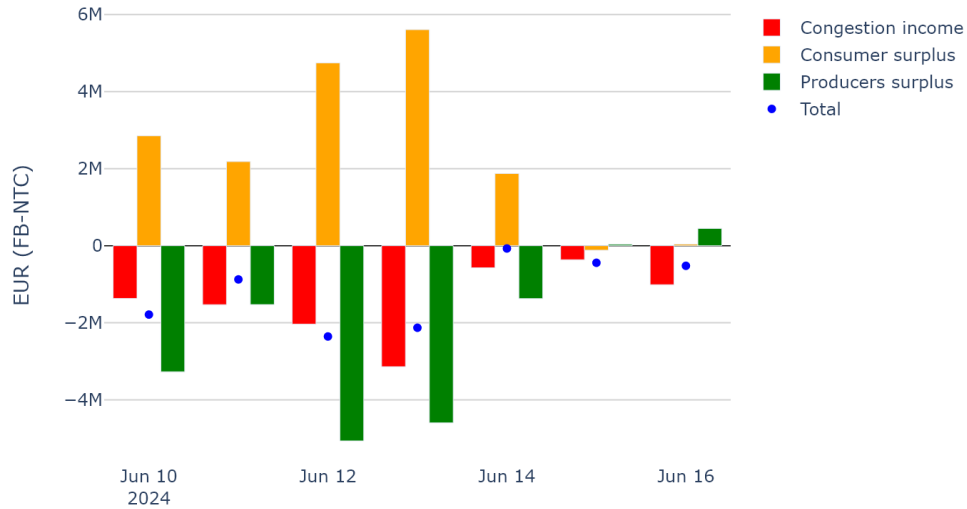
Nordics

Hourly Nordic socio-economic welfare gain, FB-NTC

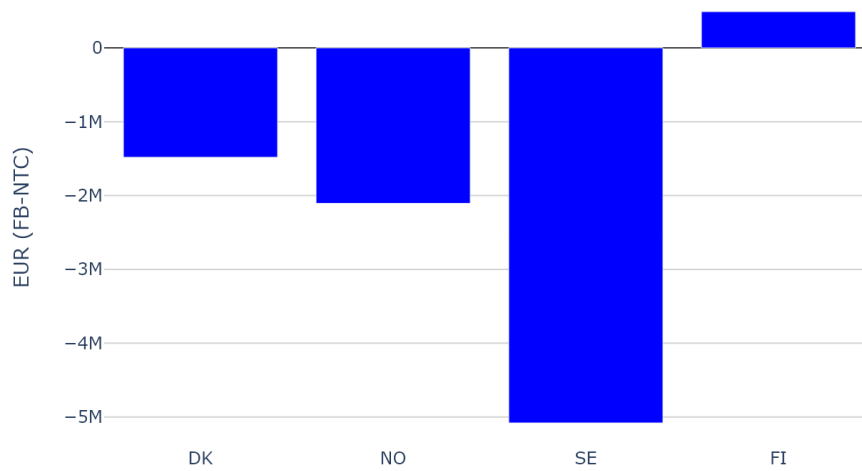




Nordics socio-economic welfare per stakeholder and day

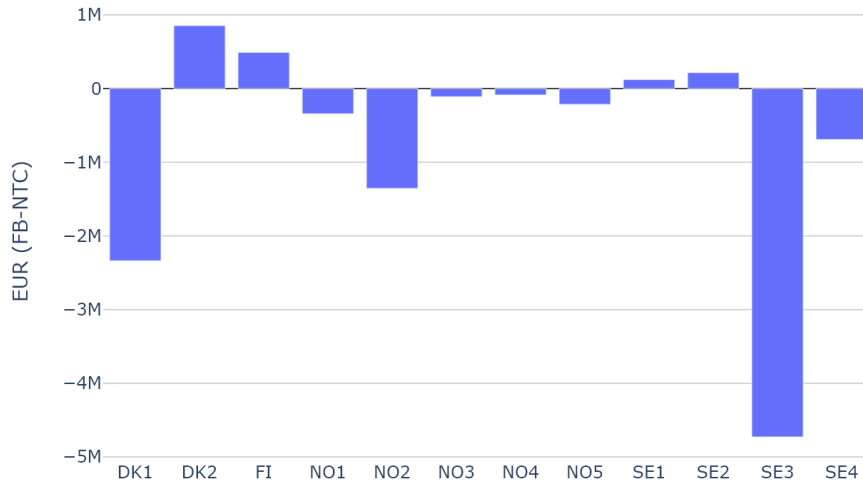


Total Nordic socio-economic welfare per country



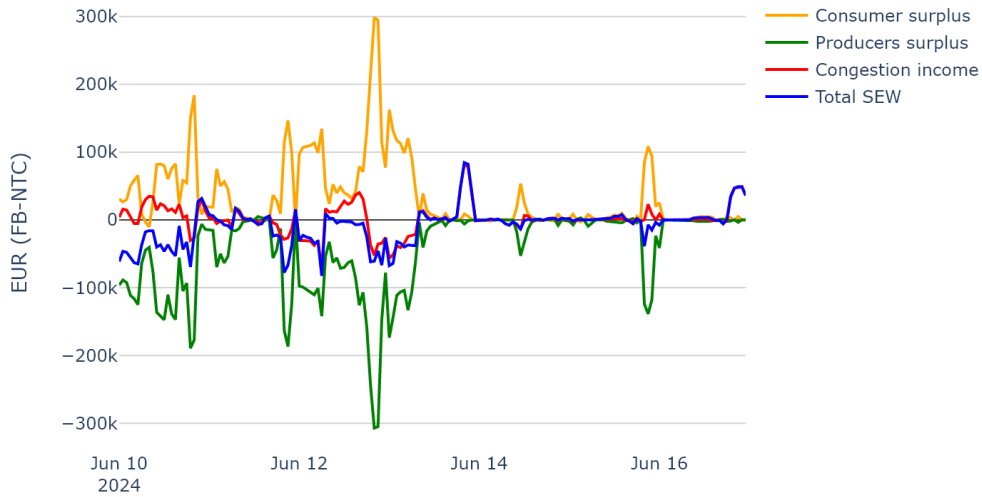


Socio economic welfaregain FB-NTC per BZ - Total_sew



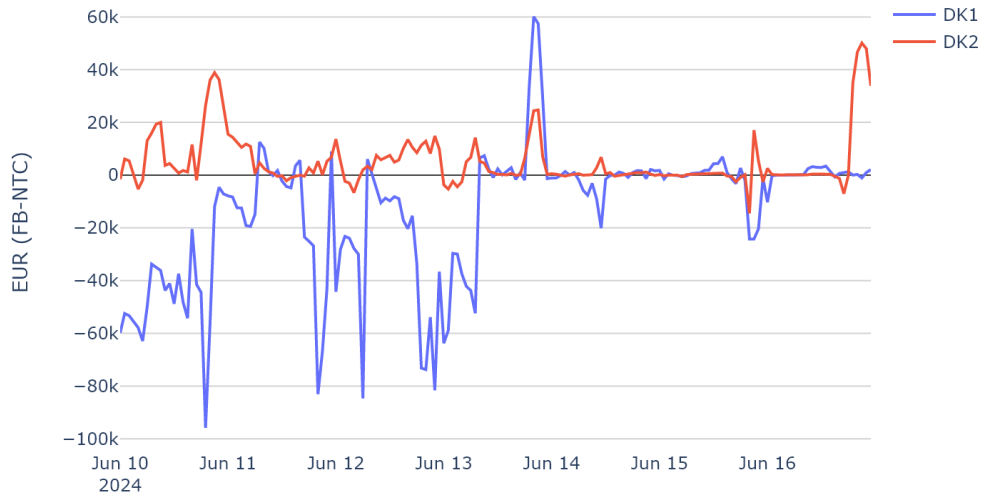
Denmark

DK, socio-economic welfare per stakeholder and country

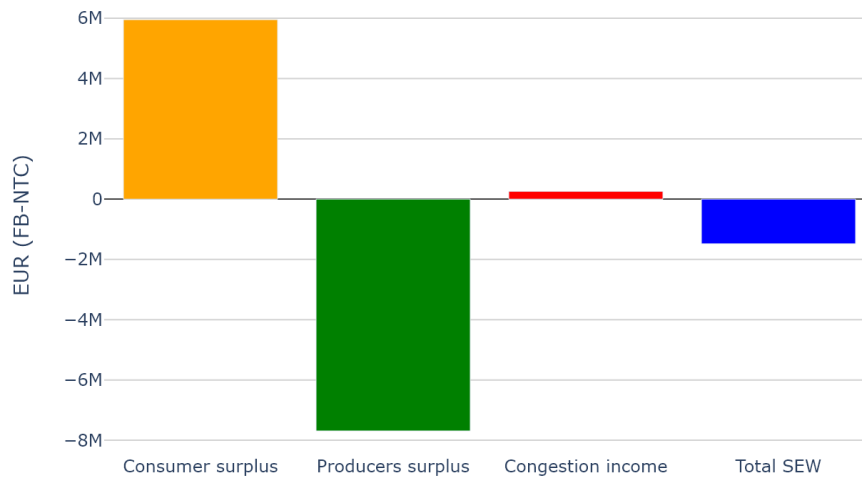




Total socio economic welfaregain FB-NTC per BZ in DK



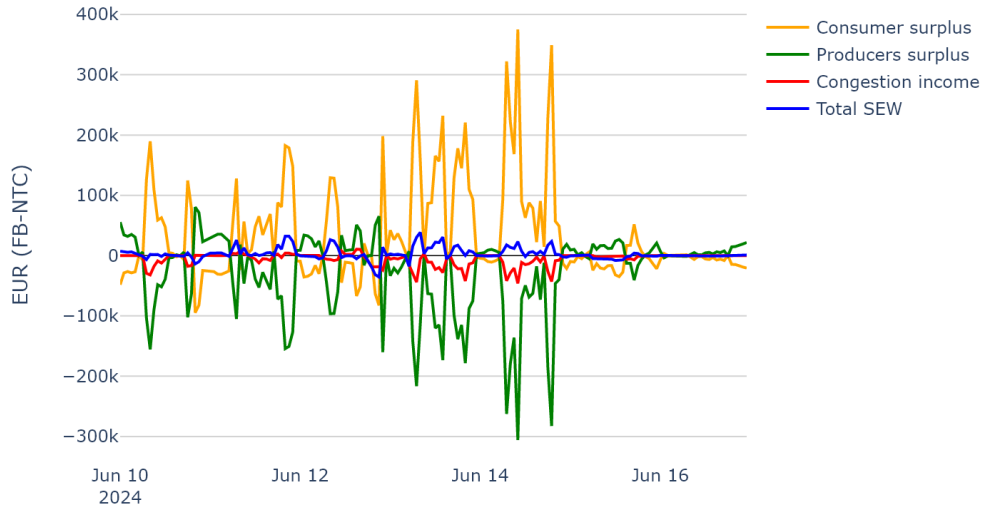
DK, socio-economic welfare per stakeholder and country



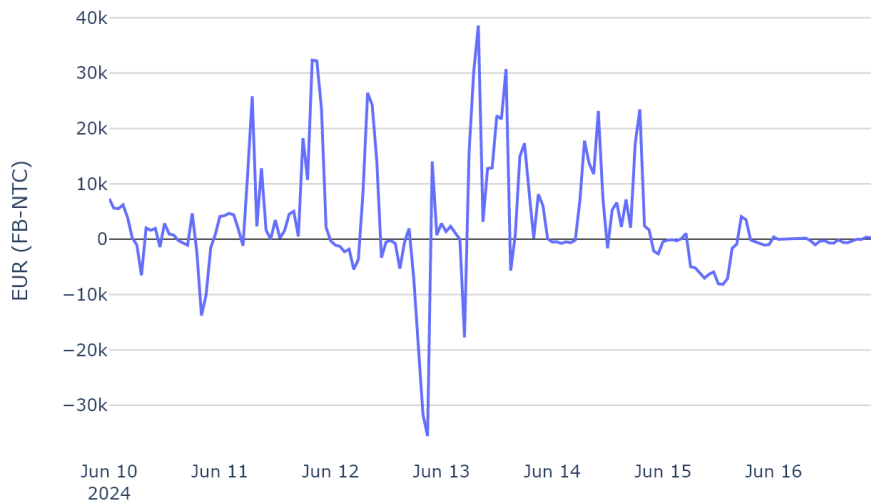


Finland

FI, socio-economic welfare per stakeholder and country

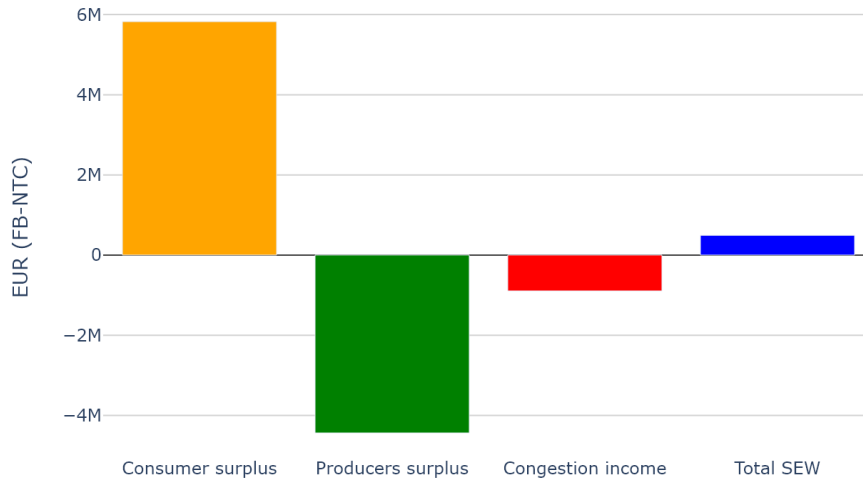


Total socio economic welfaregain FB-NTC per BZ in FI



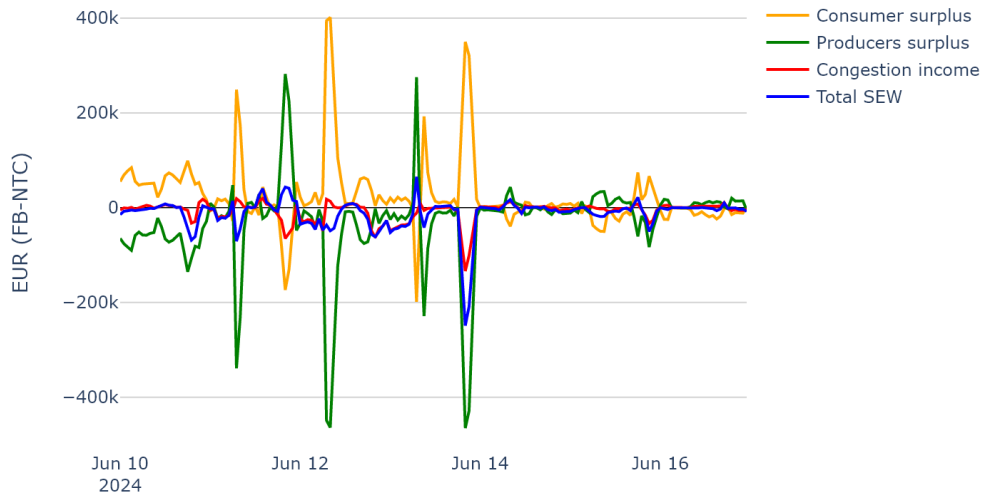


FI, socio-economic welfare per stakeholder and country



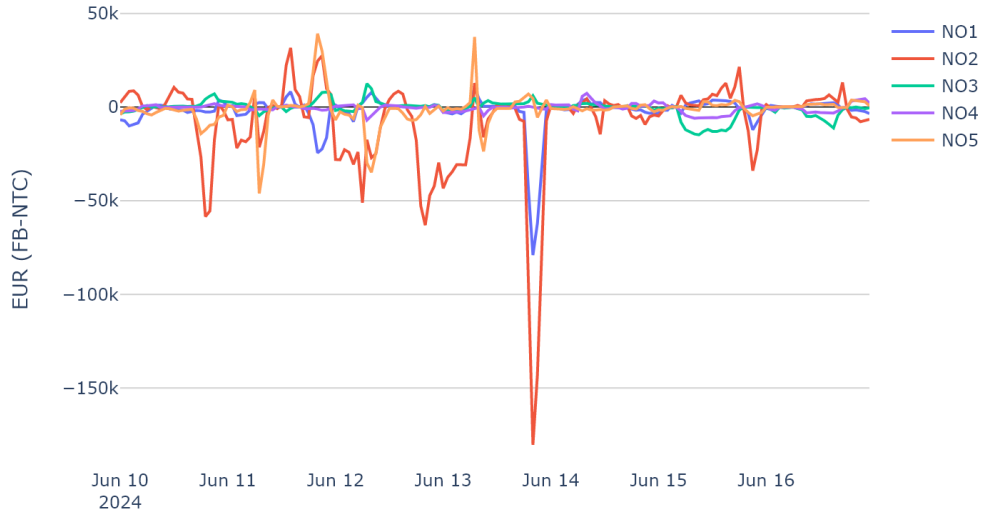
Norway

NO, socio-economic welfare per stakeholder and country

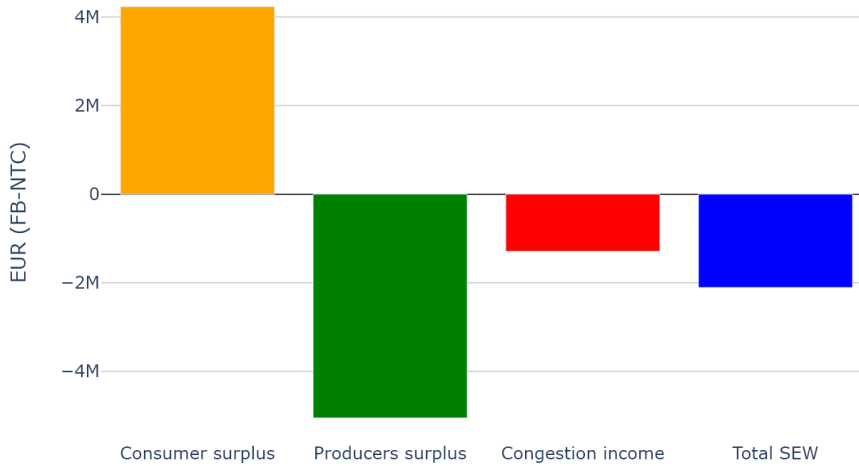




Total socio economic welfaregain FB-NTC per BZ in NO



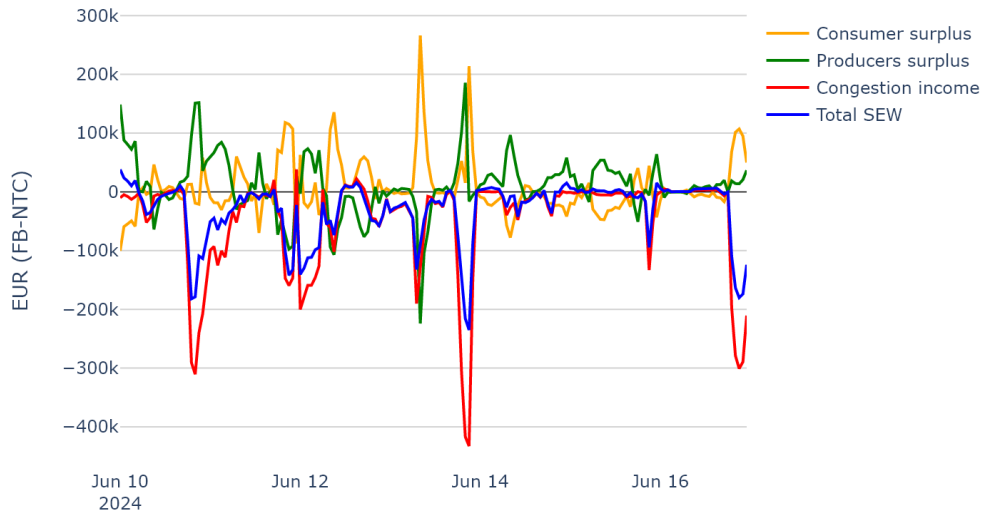
NO, socio-economic welfare per stakeholder and country



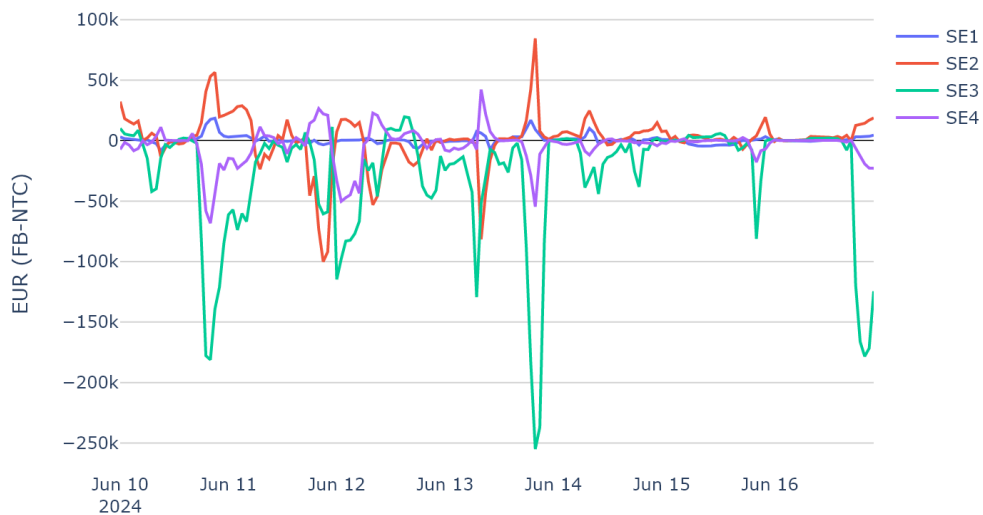


Sweden

SE, socio-economic welfare per stakeholder and country

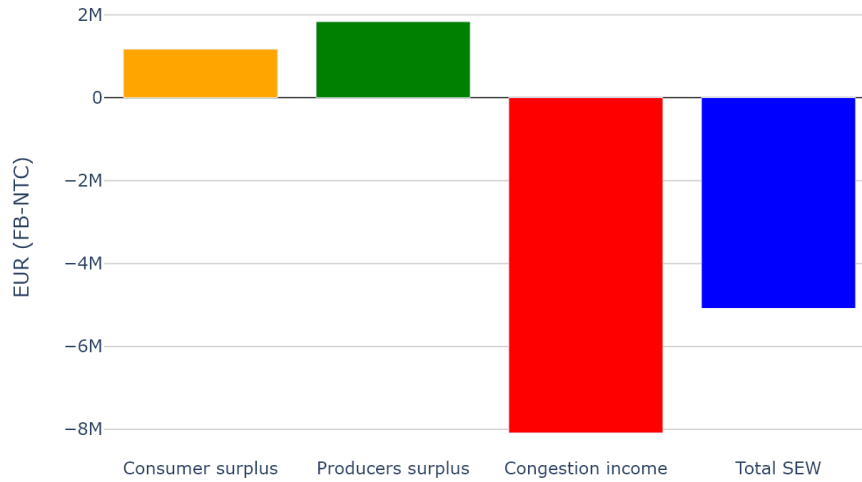


Total socio economic welfaregain FB-NTC per BZ in SE





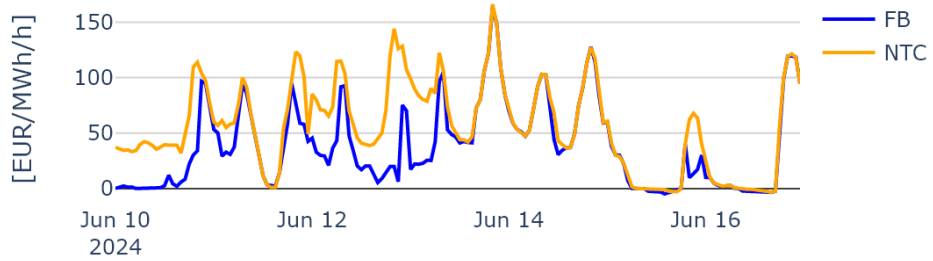
SE, socio-economic welfare per stakeholder and country



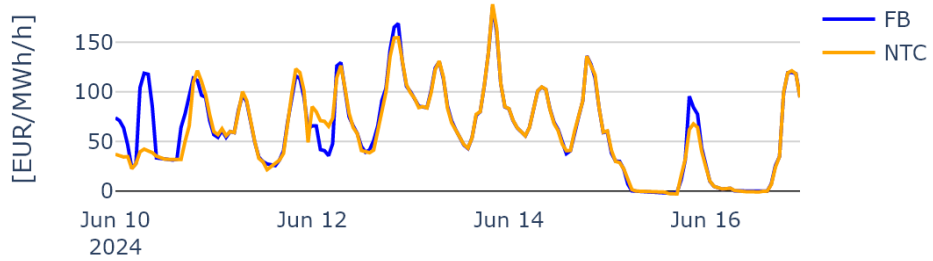


Prices

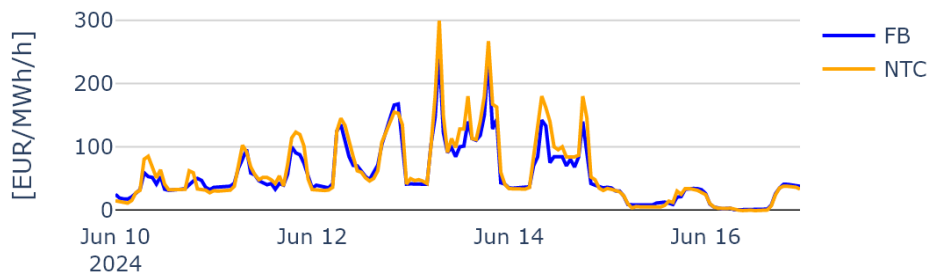
DK1 price



DK2 price

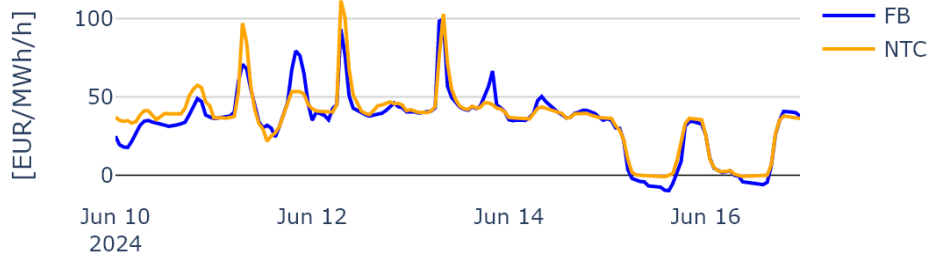


FI price

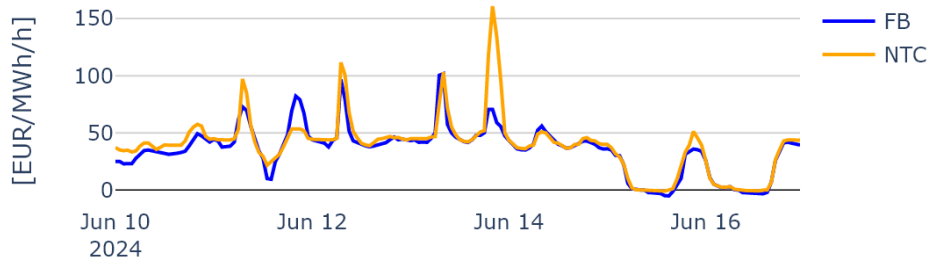




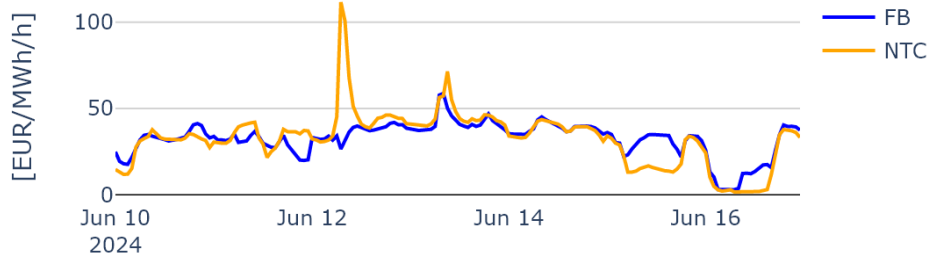
NO1 price



NO2 price

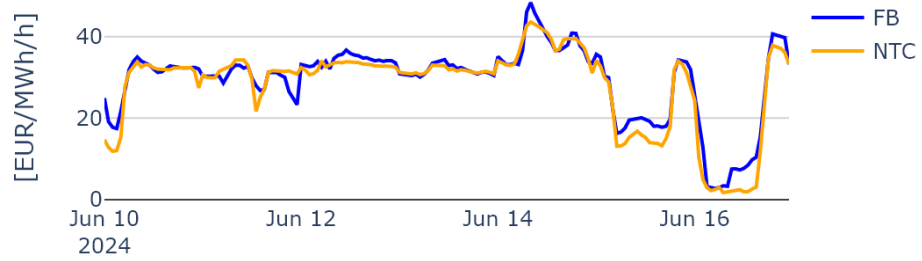


NO3 price

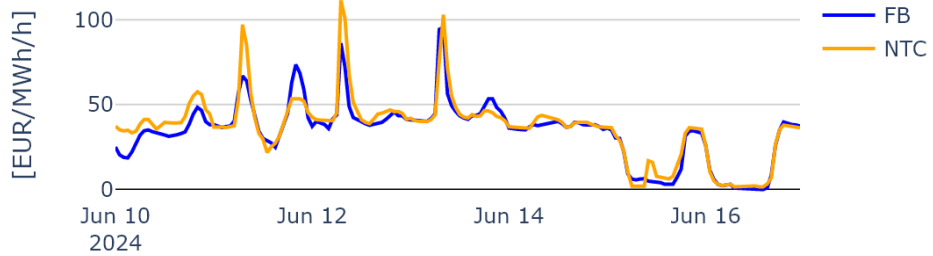




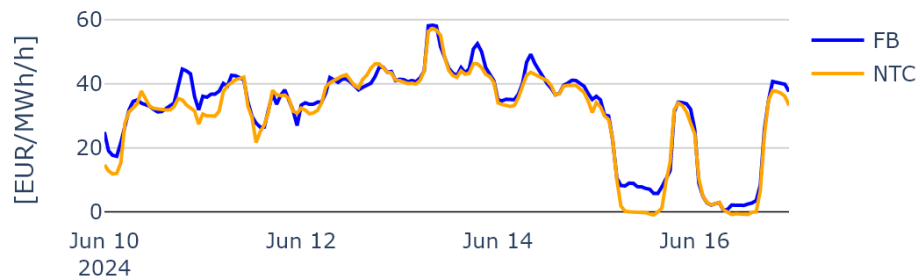
NO4 price



NO5 price

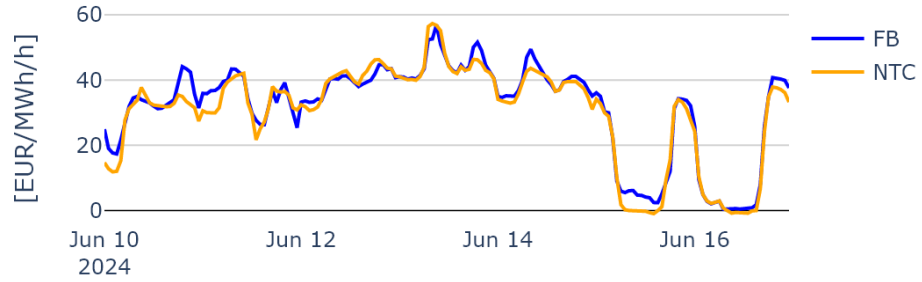


SE1 price

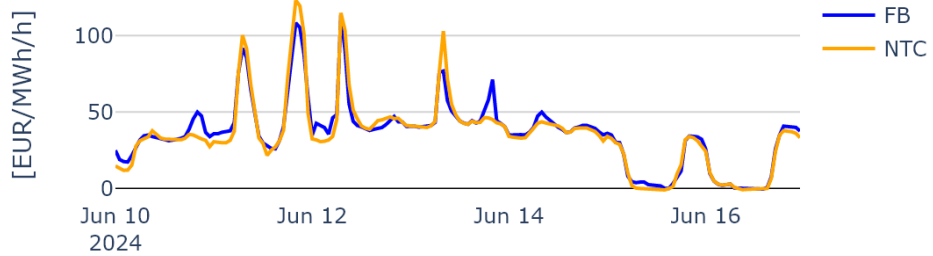




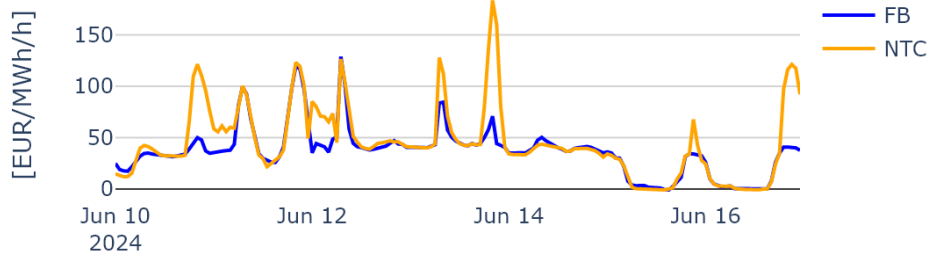
SE2 price



SE3 price



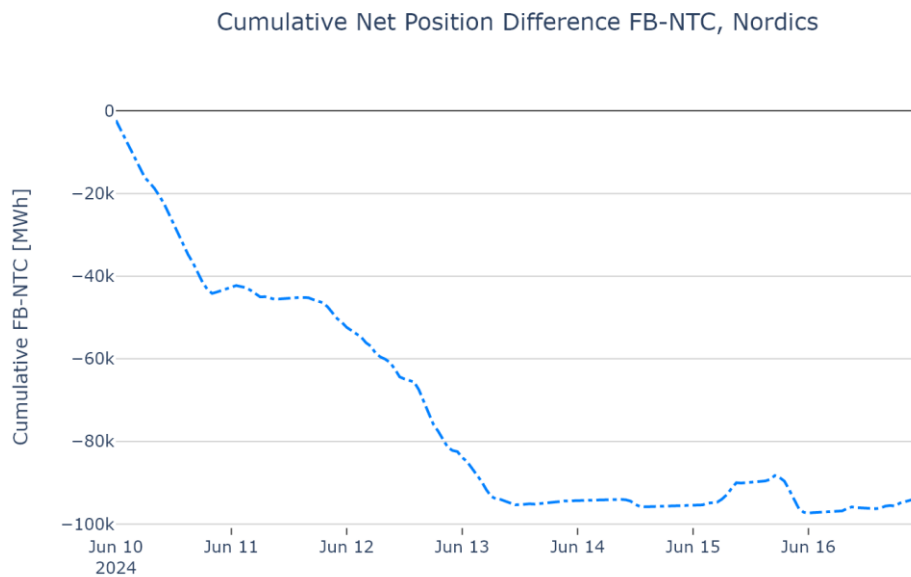
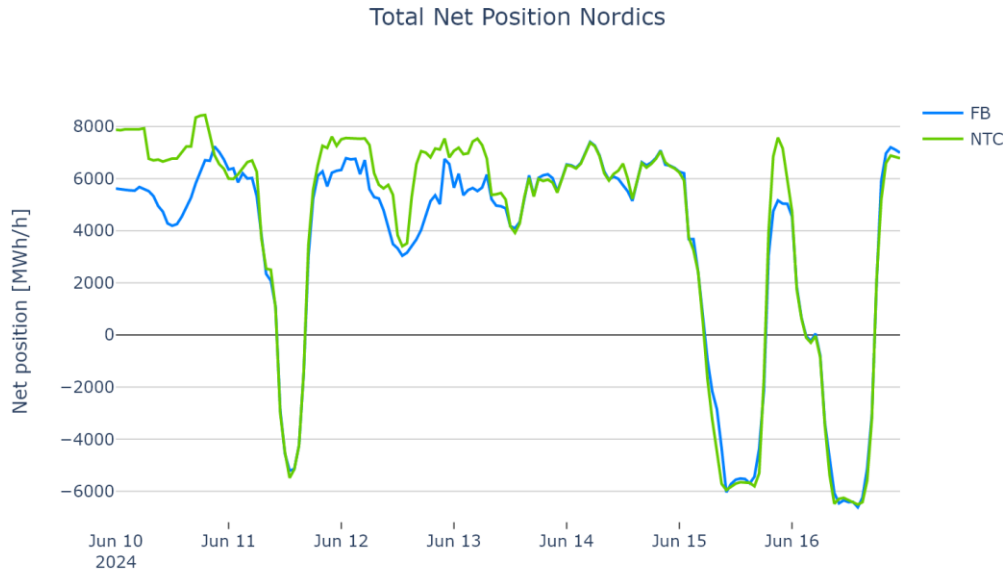
SE4 price





Net positions

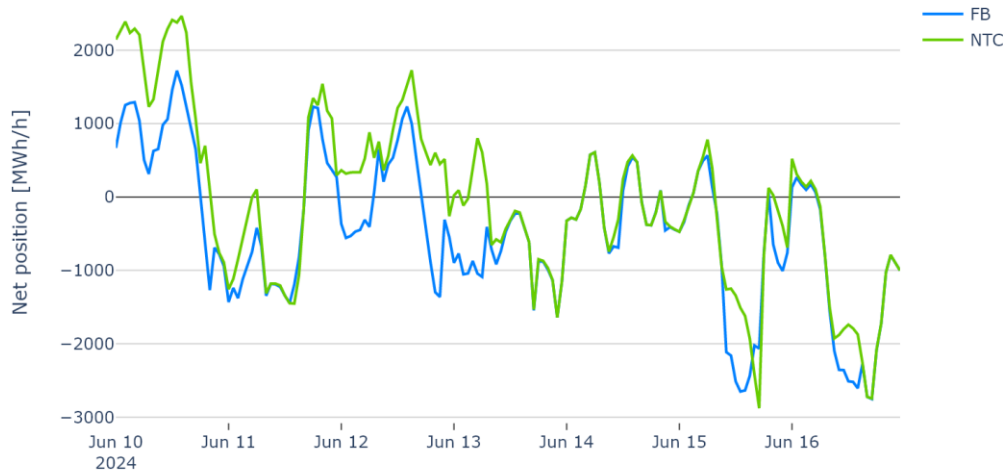
Nordics



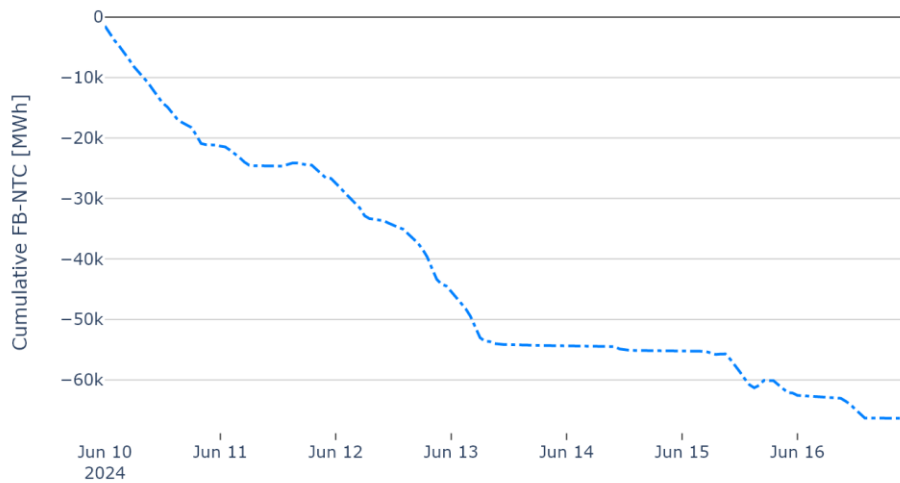


Denmark

Total Net Position DK

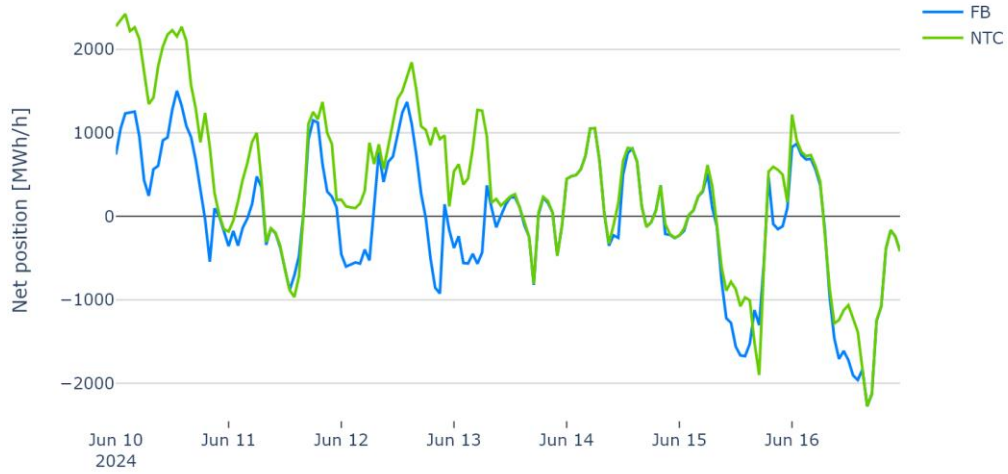


Cumulative Net Position Difference FB-NTC, DK

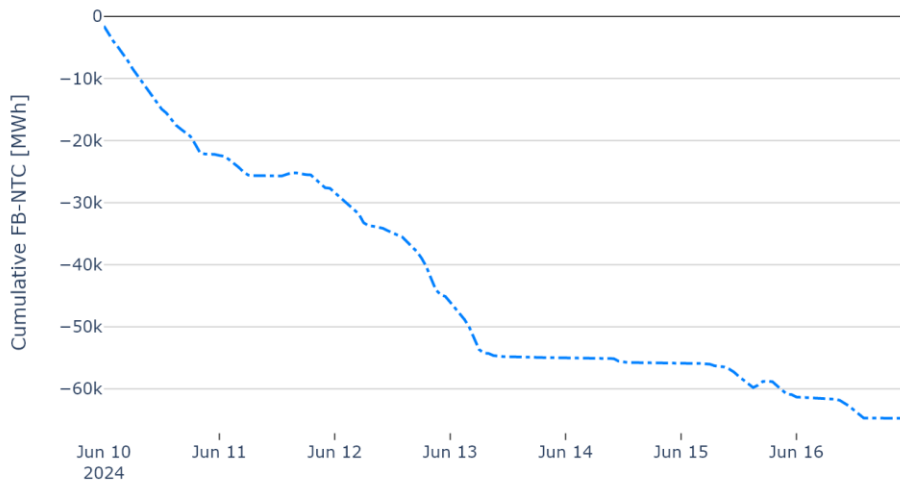




Net Position DK1

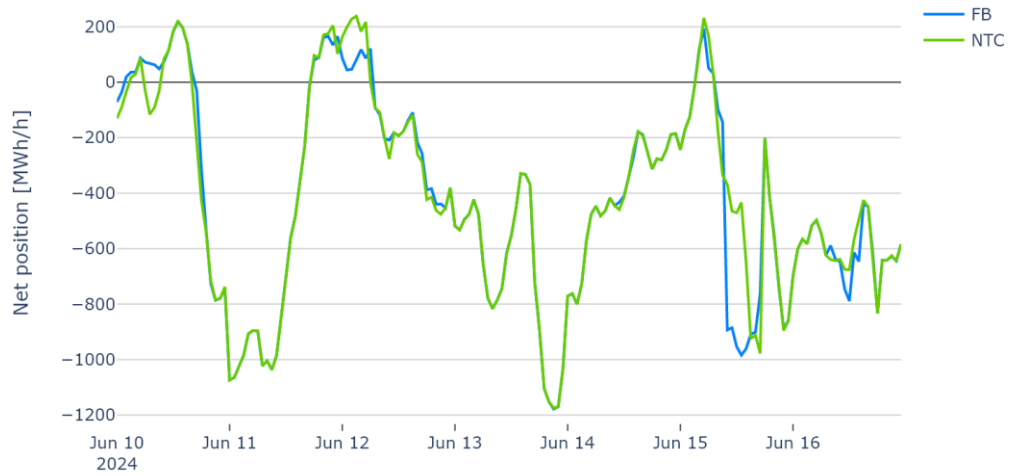


Cumulative Net Position Difference FB-NTC, DK1





Net Position DK2



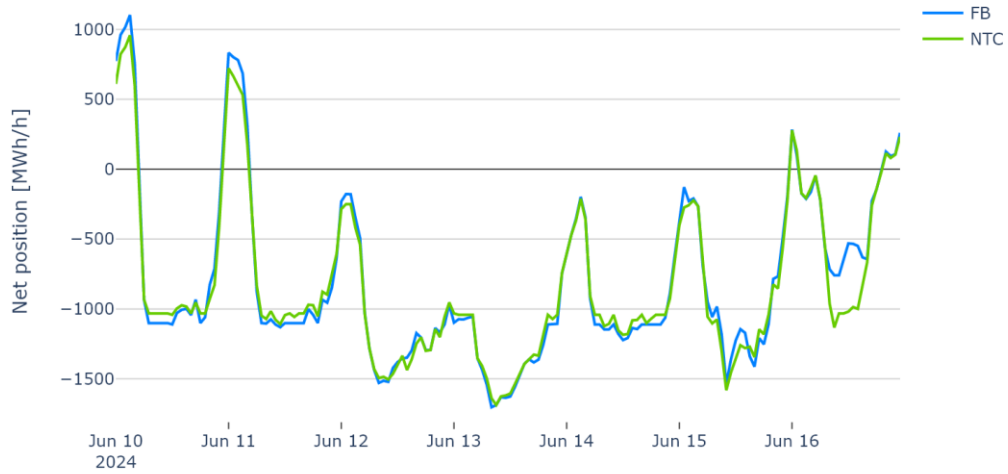
Cumulative Net Position Difference FB-NTC, DK2





Finland

Total Net Position FI

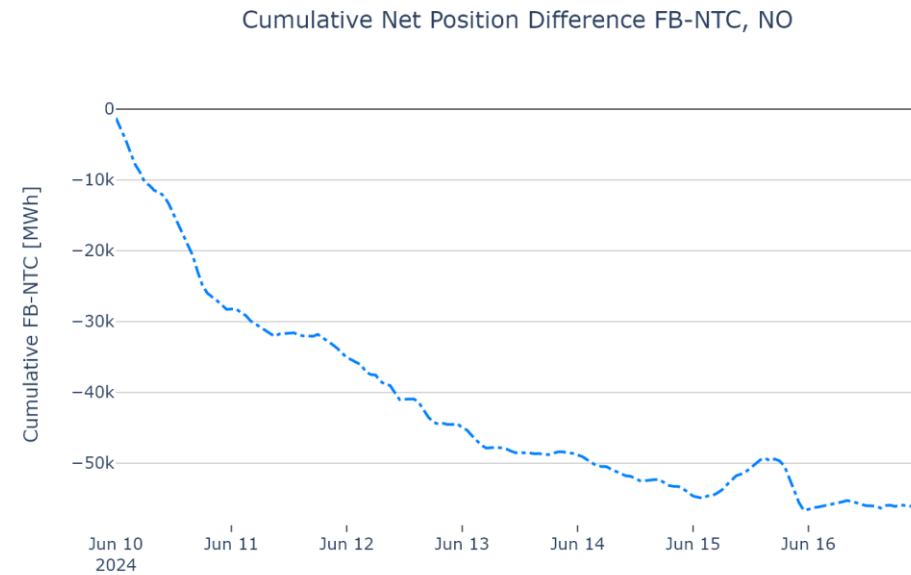
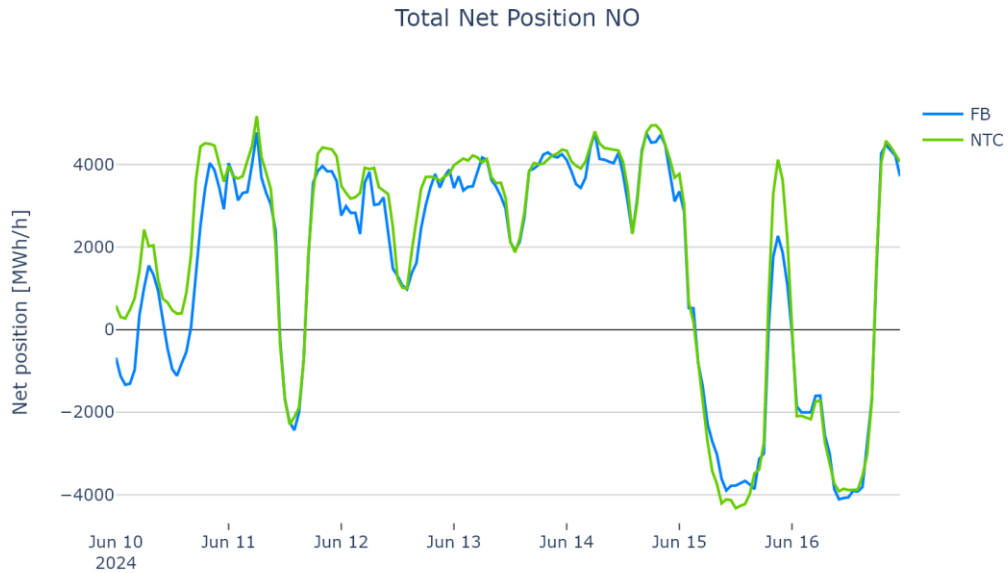


Cumulative Net Position Difference FB-NTC, FI



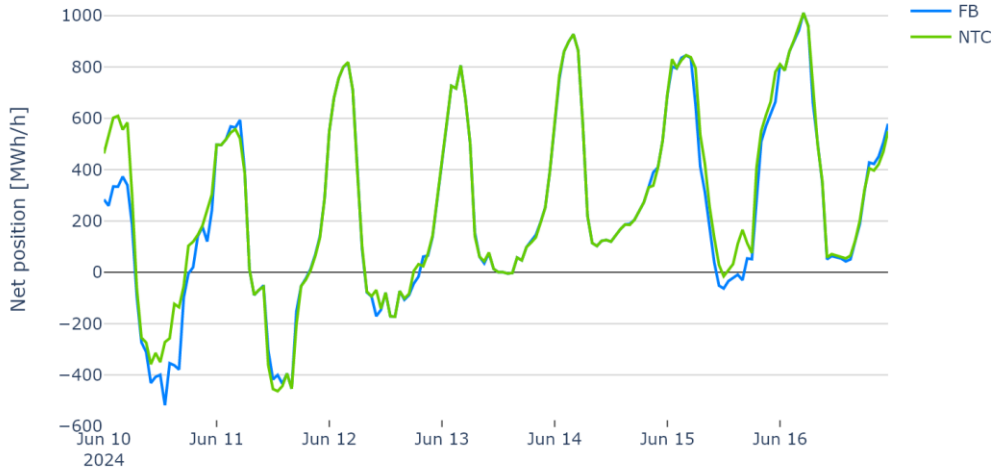


Norway

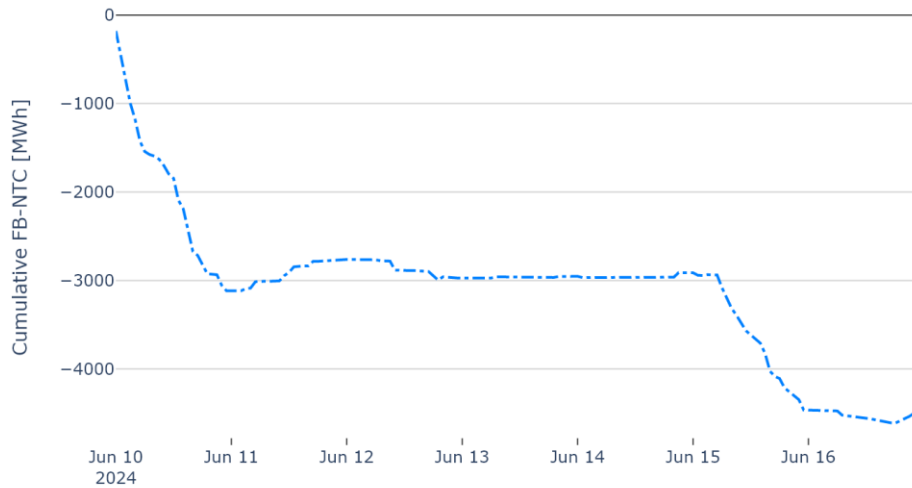




Net Position NO1

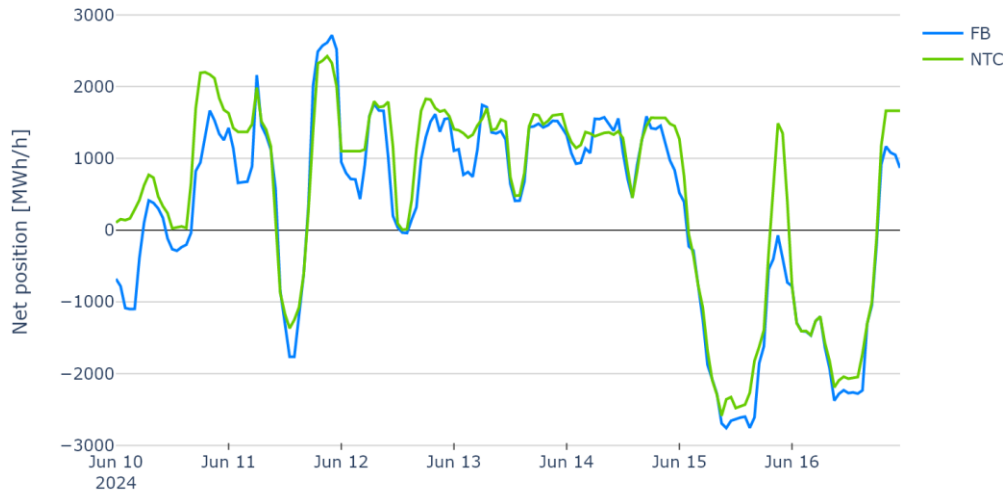


Cumulative Net Position Difference FB-NTC, NO1

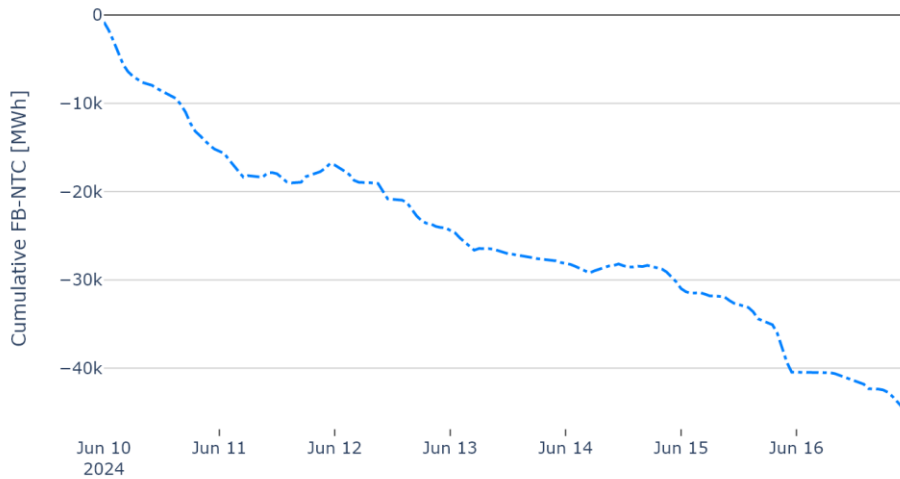




Net Position NO2

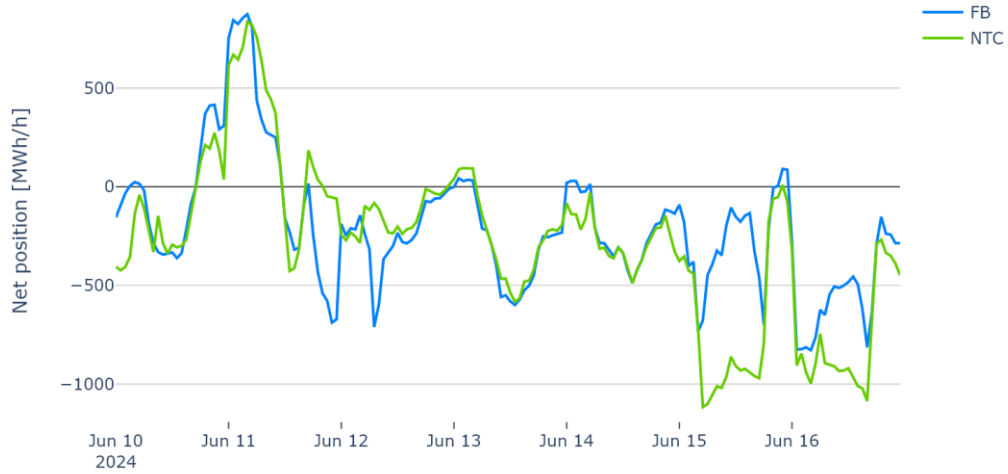


Cumulative Net Position Difference FB-NTC, NO2

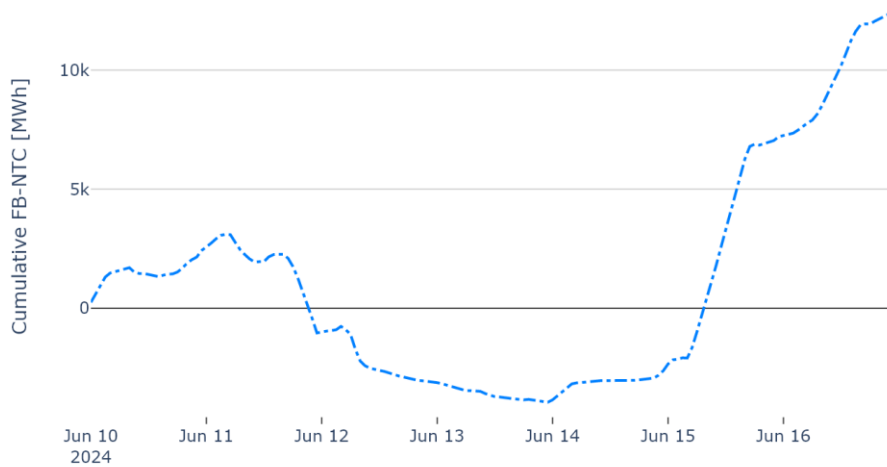




Net Position NO3

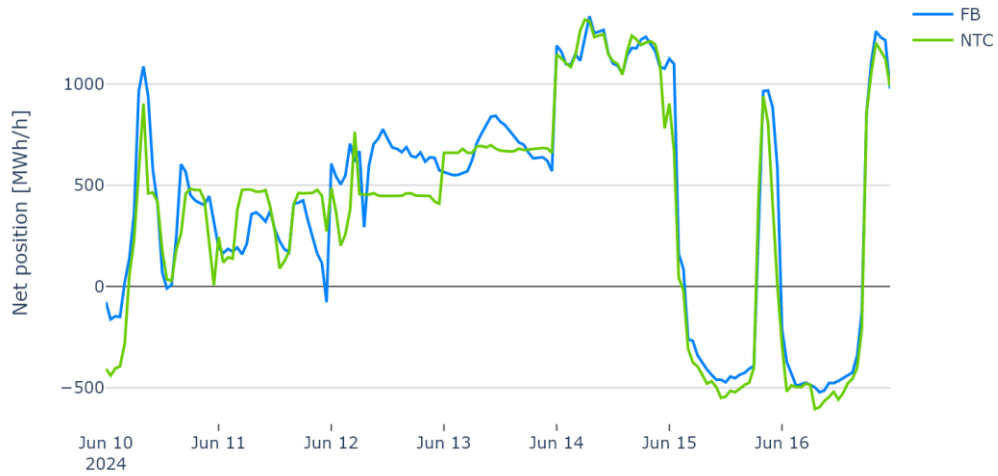


Cumulative Net Position Difference FB-NTC, NO3





Net Position NO4

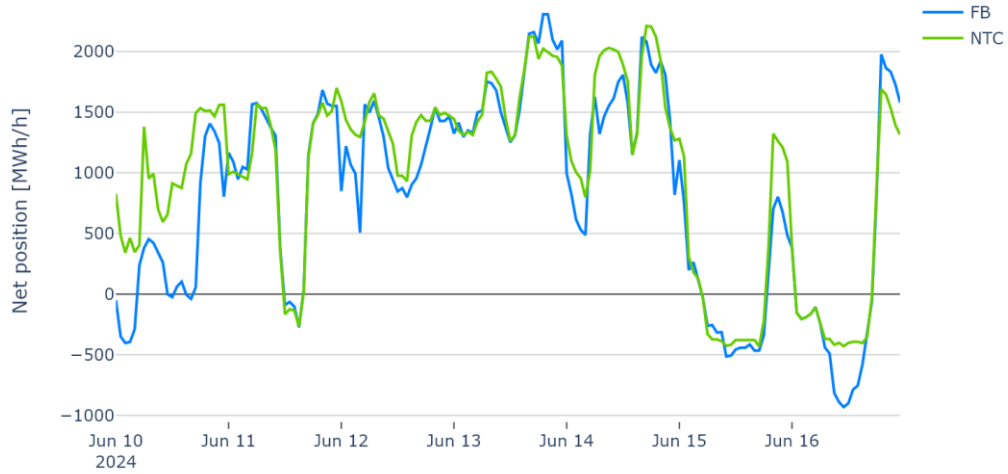


Cumulative Net Position Difference FB-NTC, NO4





Net Position NO5



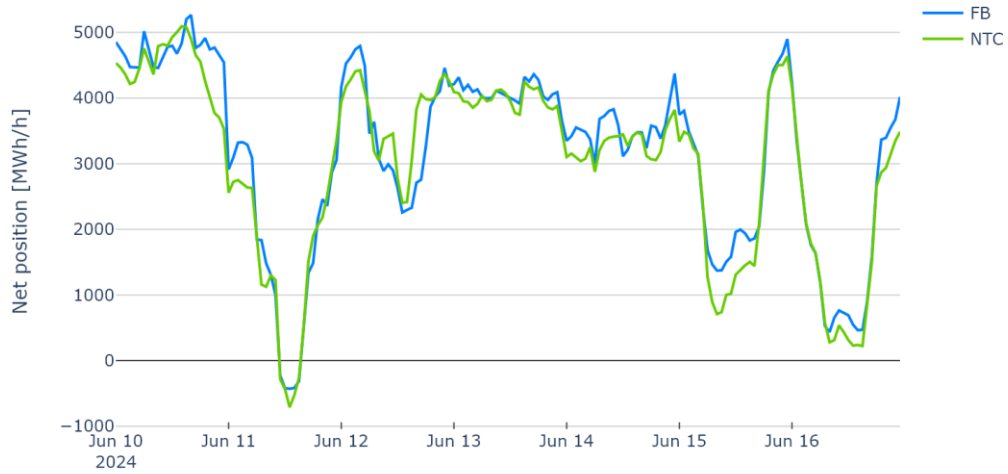
Cumulative Net Position Difference FB-NTC, NO5



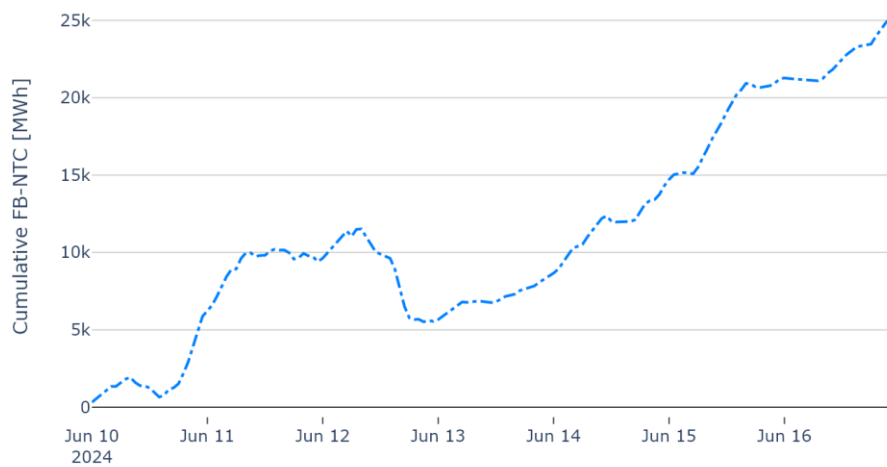


Sweden

Total Net Position SE



Cumulative Net Position Difference FB-NTC, SE

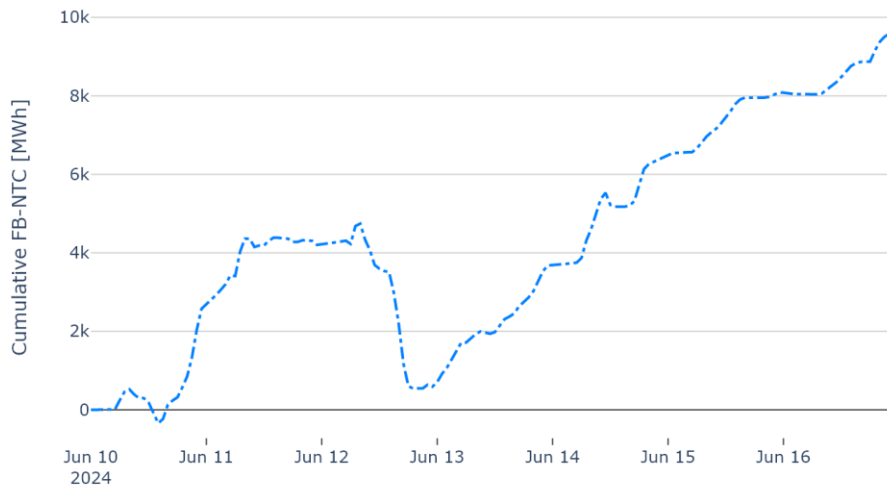




Net Position SE1

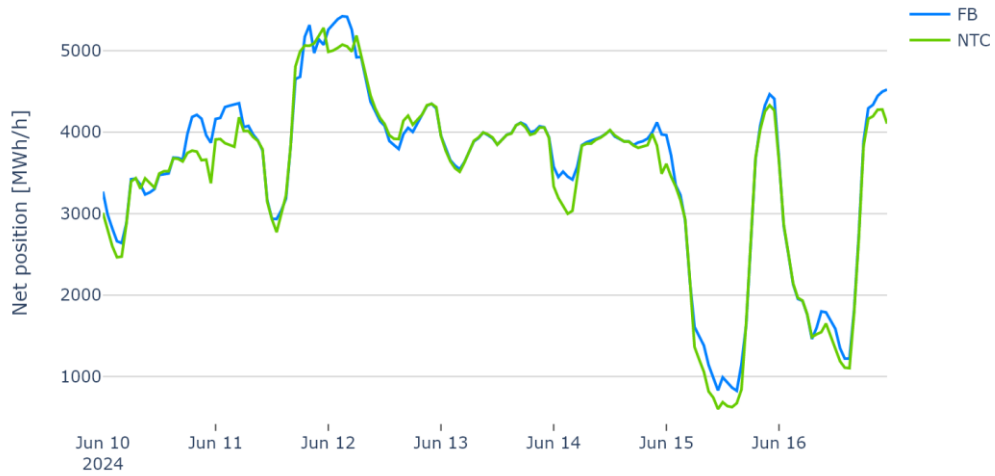


Cumulative Net Position Difference FB-NTC, SE1





Net Position SE2

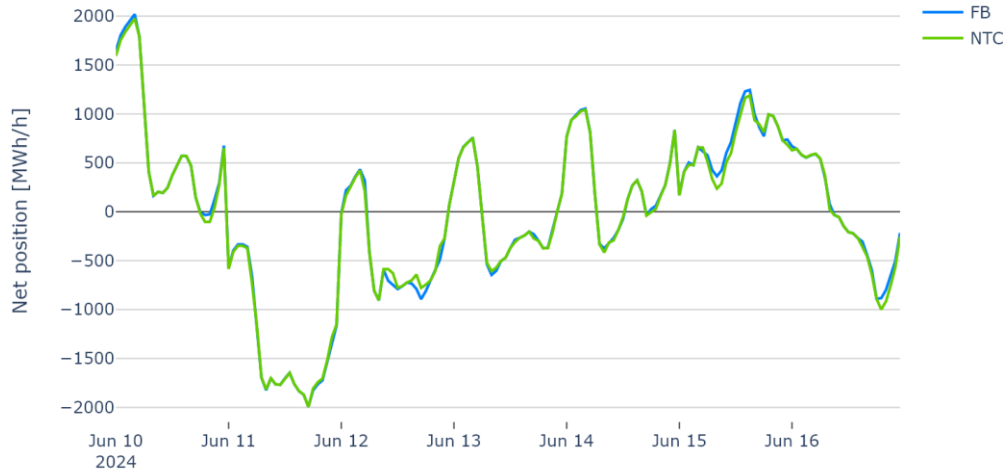


Cumulative Net Position Difference FB-NTC, SE2





Net Position SE3

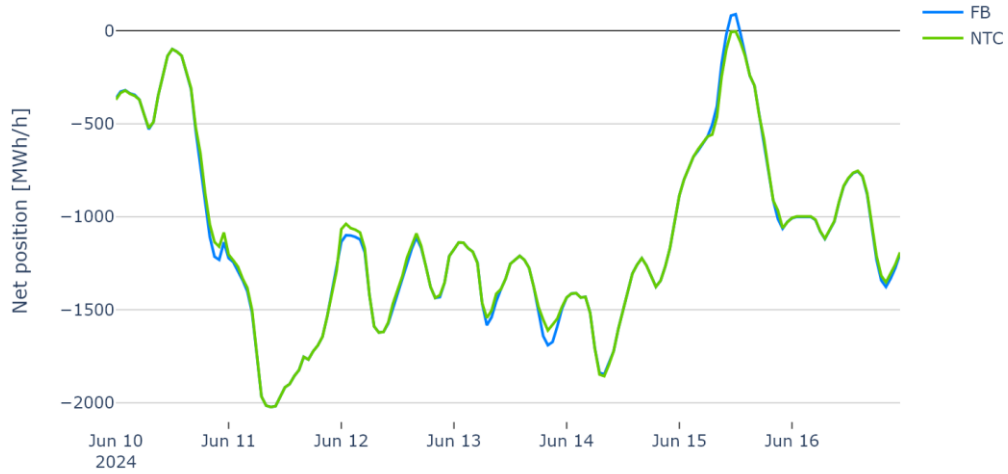


Cumulative Net Position Difference FB-NTC, SE3

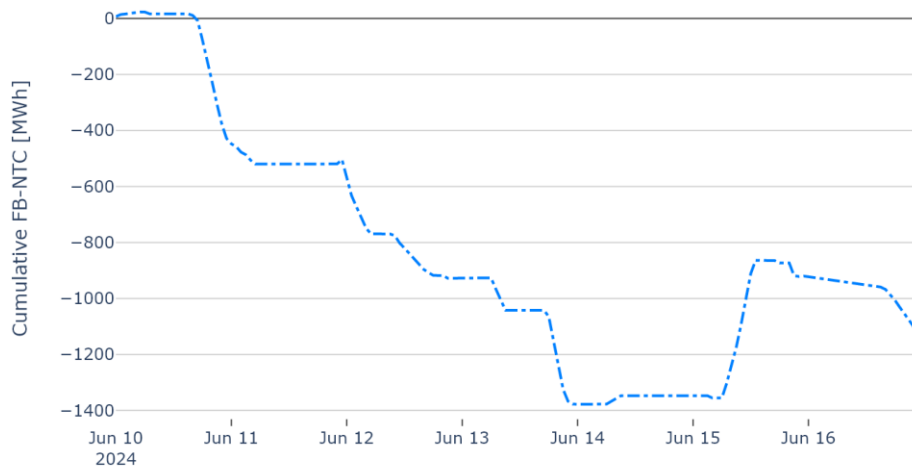




Net Position SE4



Cumulative Net Position Difference FB-NTC, SE4

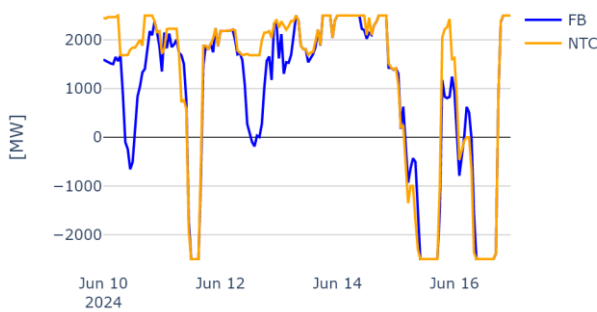




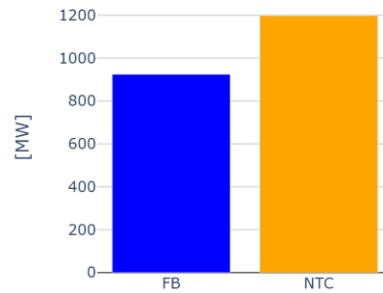
Border flow

The flows present here, both in FB and NTC, represent the physical flow on the lines and are calculated as the product of the NP and the PTDF matrix. When comparing the NTC-results in this report with those present in the DA market there will be a difference as the DA flows are calculated without the use of PTDF matrixes and therefore the flow from DA will not yield the same result.

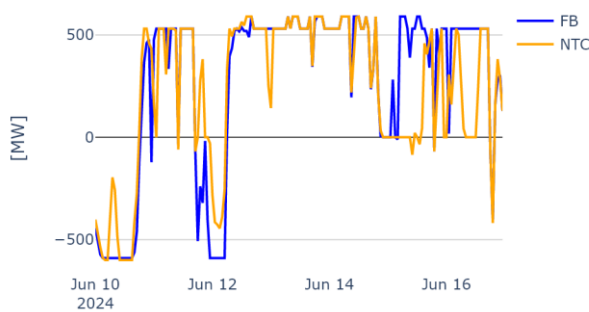
DK1 > DE/LU Physical Flow



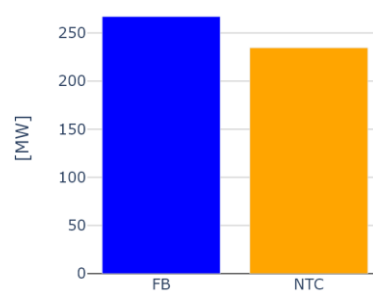
DK1 > DE/LU Average flow on border



DK1 > DK2 Physical Flow

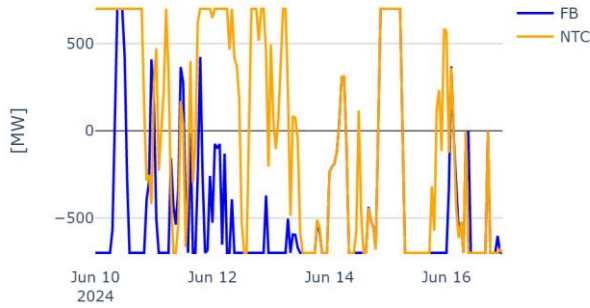


DK1 > DK2 Average flow on border

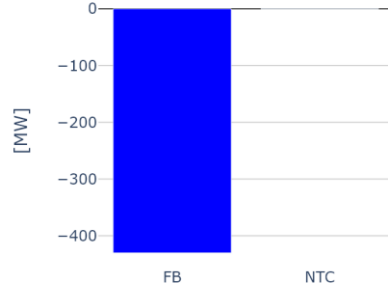




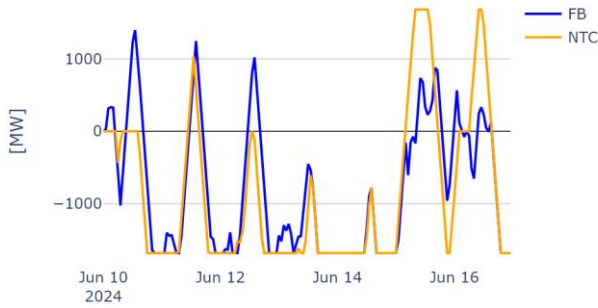
DK1 > NL Physical Flow



DK1 > NL Average flow on border



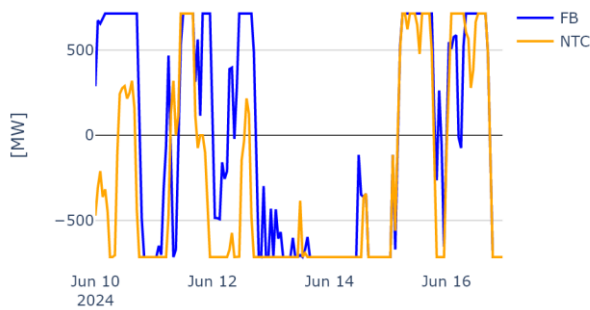
DK1 > NO2 Physical Flow



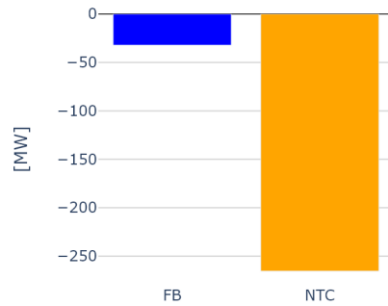
DK1 > NO2 Average flow on border



DK1 > SE3 Physical Flow

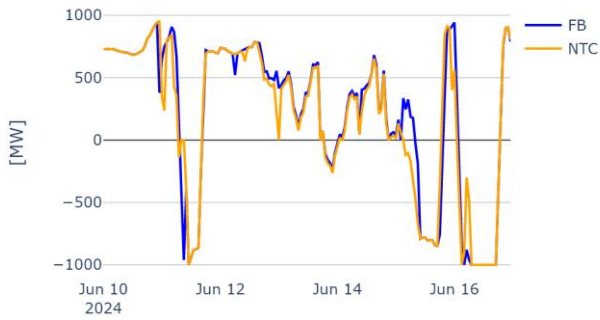


DK1 > SE3 Average flow on border

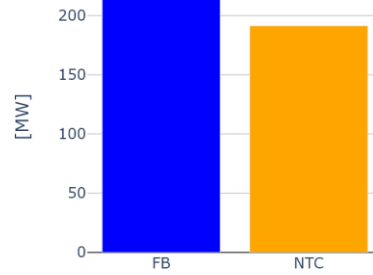




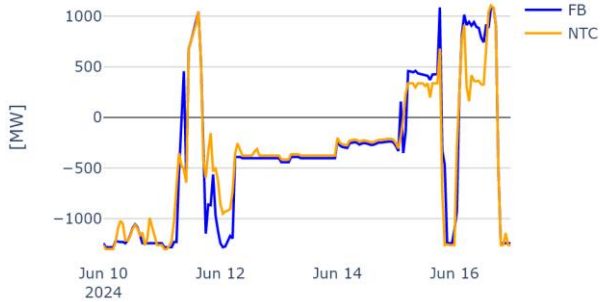
DK2 > DE/LU Physical Flow



DK2 > DE/LU Average flow on border



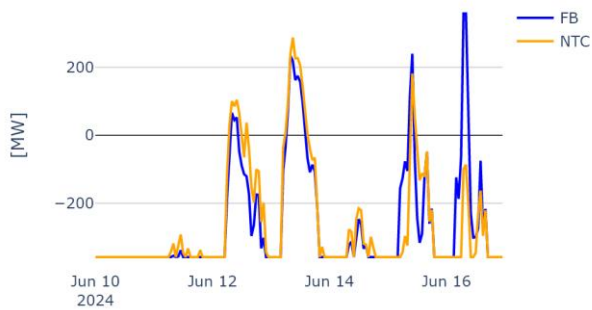
DK2 > SE4 Physical Flow



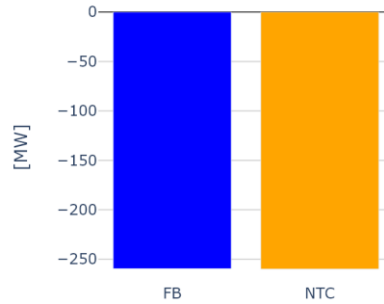
DK2 > SE4 Average flow on border



EE > FI Physical Flow

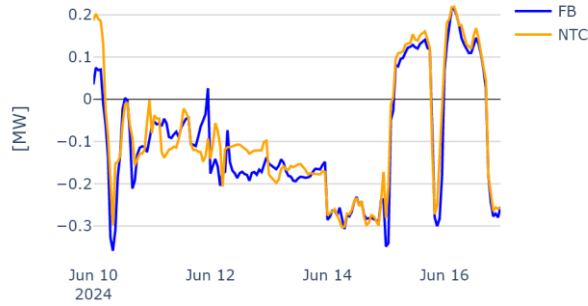


EE > FI Average flow on border

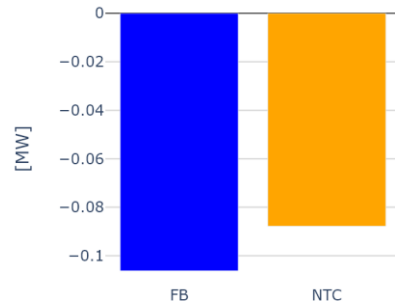




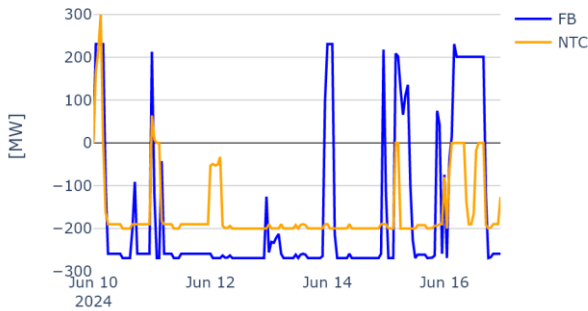
FI > NO4 Physical Flow



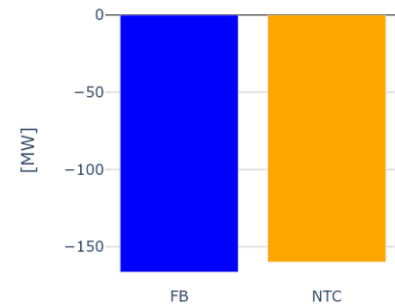
FI > NO4 Average flow on border



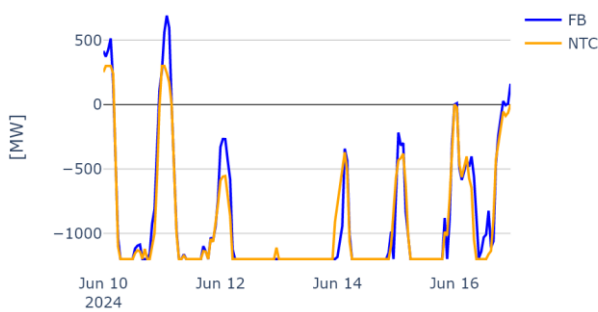
FI > SE1 Physical Flow



FI > SE1 Average flow on border



FI > SE3 Physical Flow

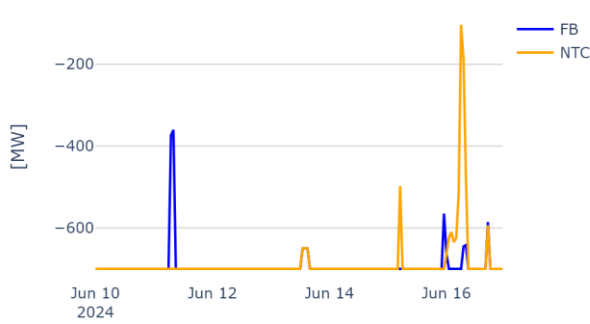


FI > SE3 Average flow on border

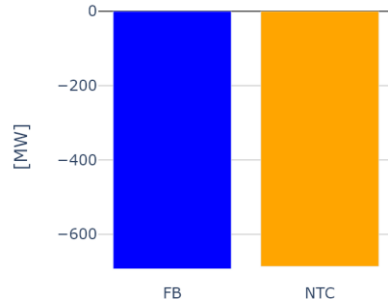




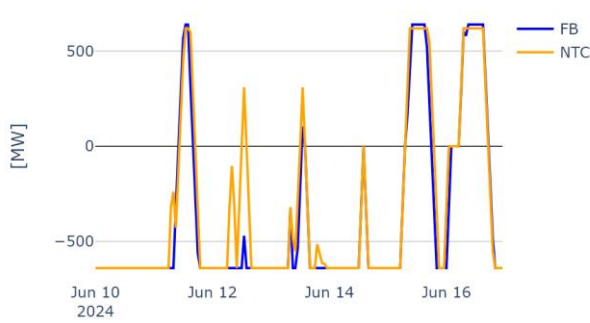
LT > SE4 Physical Flow



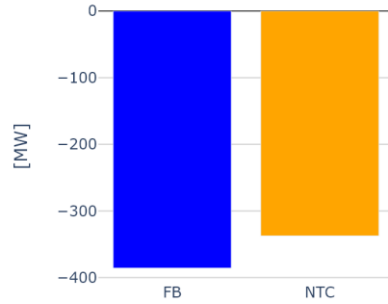
LT > SE4 Average flow on border



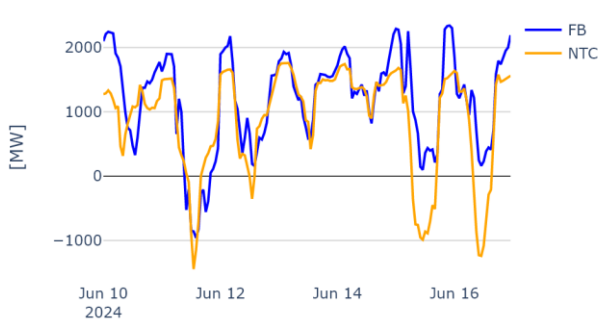
NL > NO2 Physical Flow



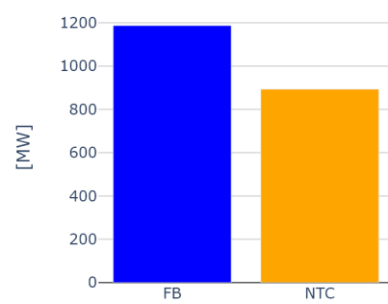
NL > NO2 Average flow on border



NO1 > NO2 Physical Flow

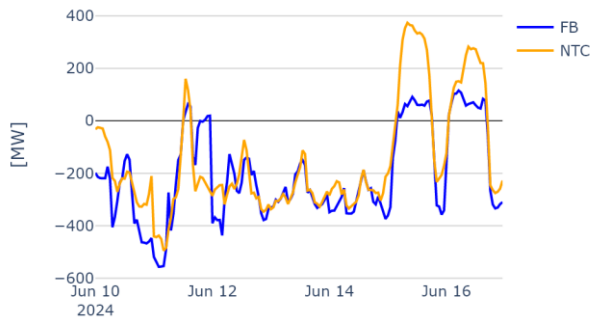


NO1 > NO2 Average flow on border

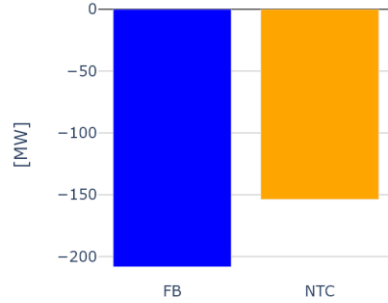




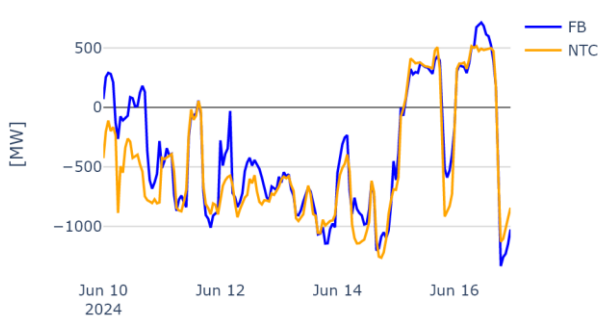
NO1 > NO3 Physical Flow



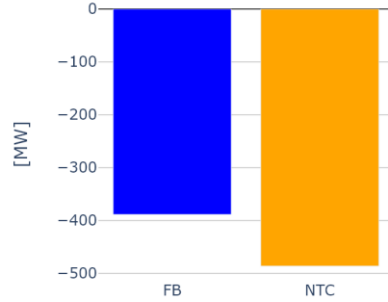
NO1 > NO3 Average flow on border



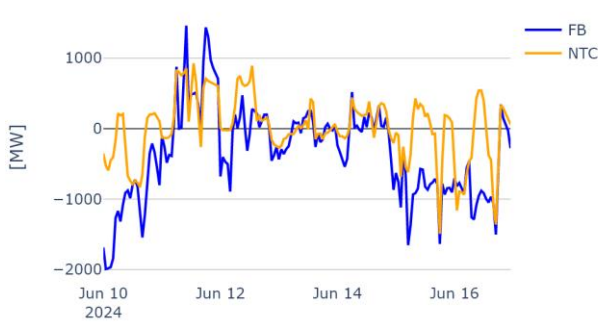
NO1 > NO5 Physical Flow



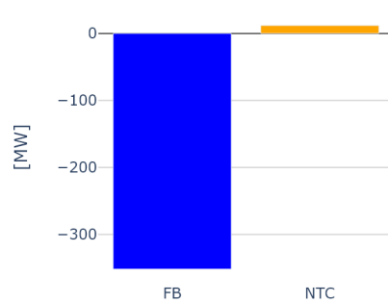
NO1 > NO5 Average flow on border



NO1 > SE3 Physical Flow

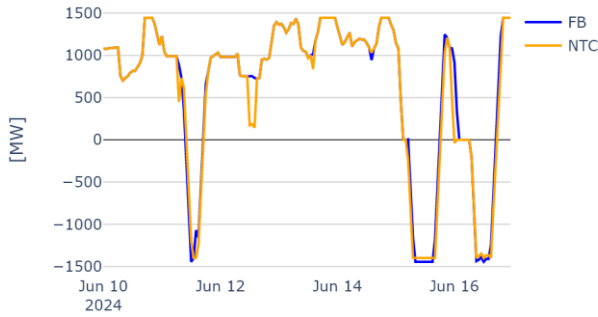


NO1 > SE3 Average flow on border

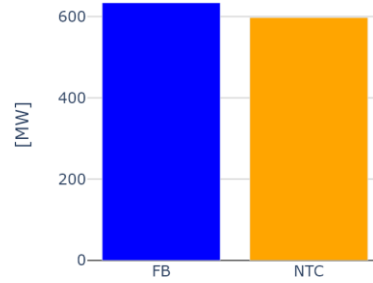




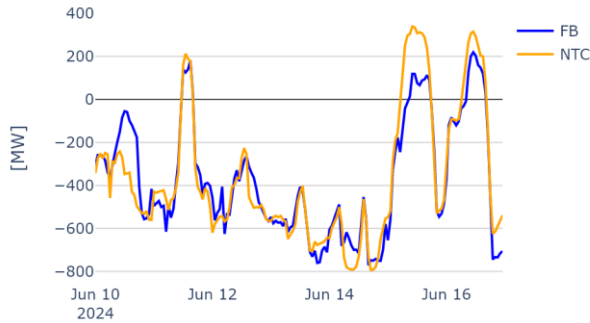
NO2 > DE/LU Physical Flow



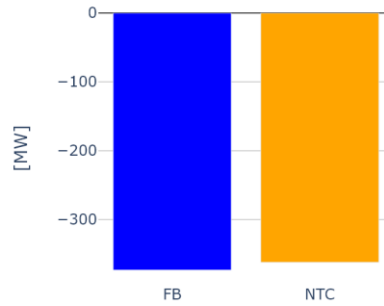
NO2 > DE/LU Average flow on border



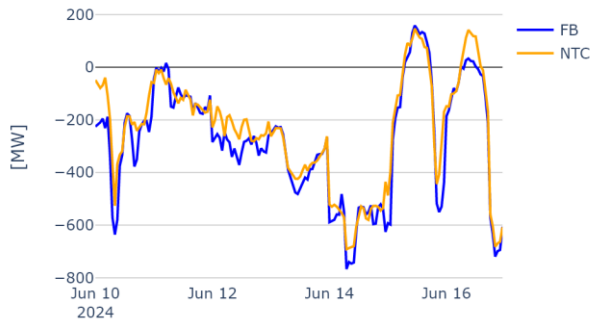
NO2 > NO5 Physical Flow



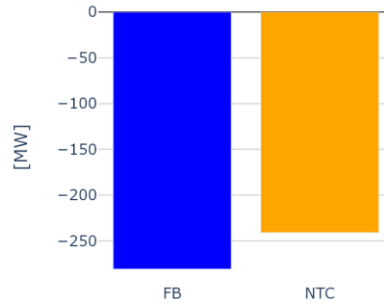
NO2 > NO5 Average flow on border



NO3 > NO4 Physical Flow

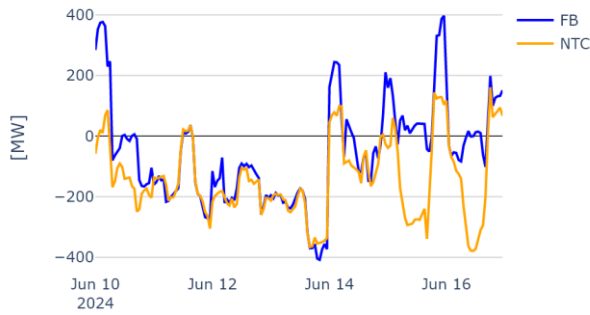


NO3 > NO4 Average flow on border





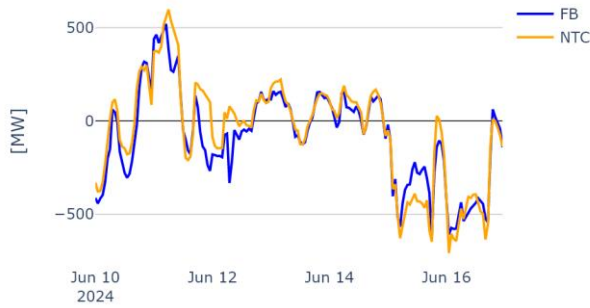
NO3 > NO5 Physical Flow



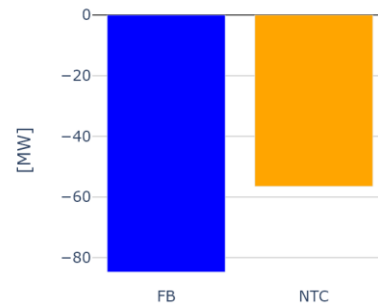
NO3 > NO5 Average flow on border



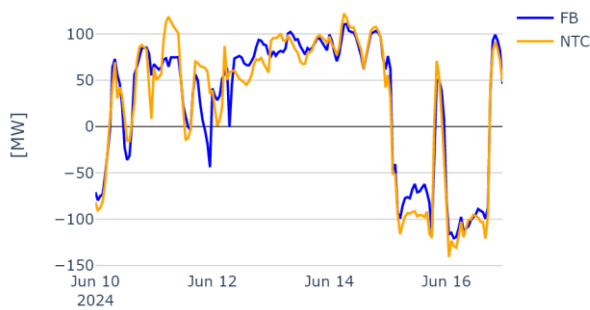
NO3 > SE2 Physical Flow



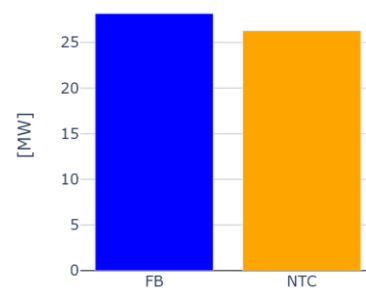
NO3 > SE2 Average flow on border



NO4 > SE2 Physical Flow

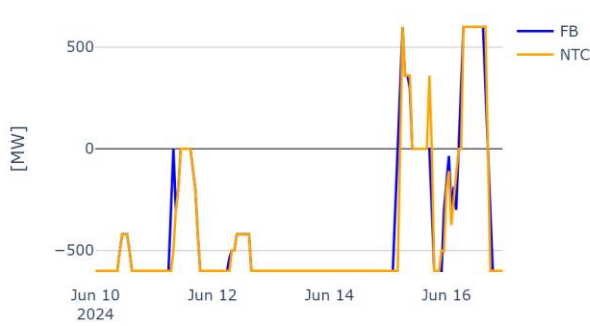


NO4 > SE2 Average flow on border

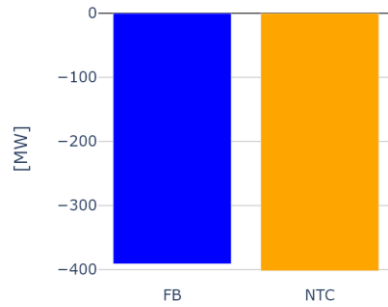




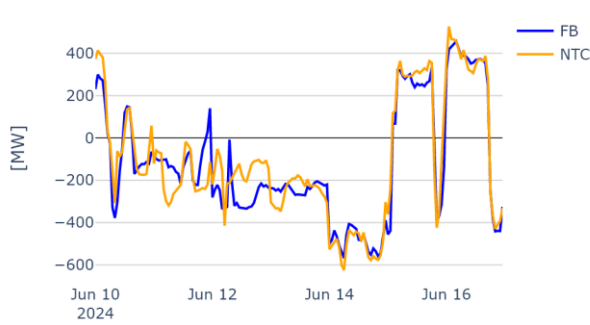
PL > SE4 Physical Flow



PL > SE4 Average flow on border



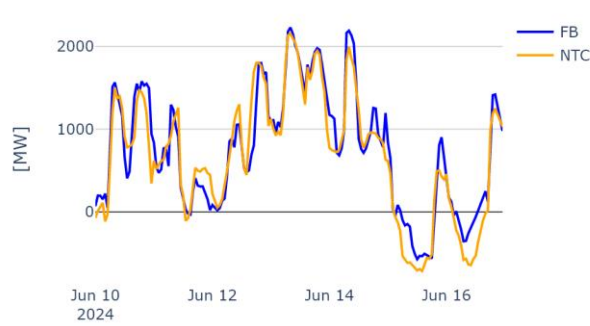
SE1 > NO4 Physical Flow



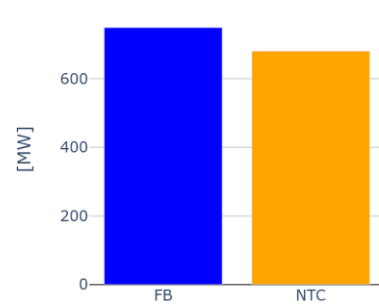
SE1 > NO4 Average flow on border



SE1 > SE2 Physical Flow

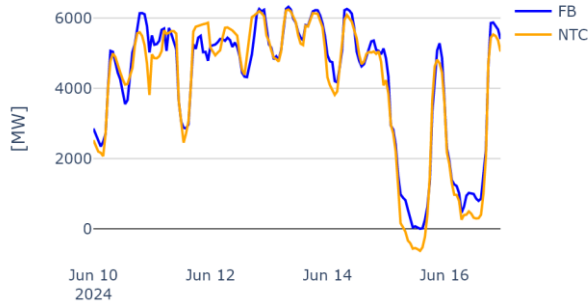


SE1 > SE2 Average flow on border

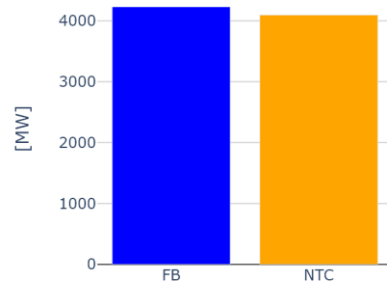




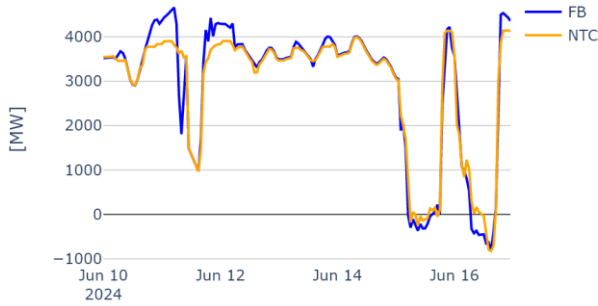
SE2 > SE3 Physical Flow



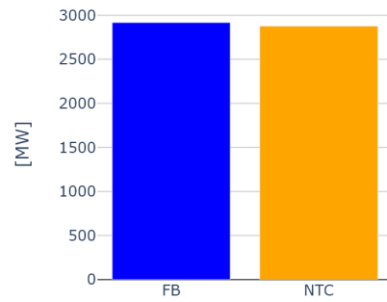
SE2 > SE3 Average flow on border



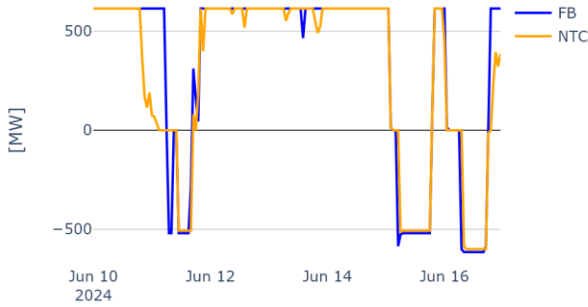
SE3 > SE4 Physical Flow



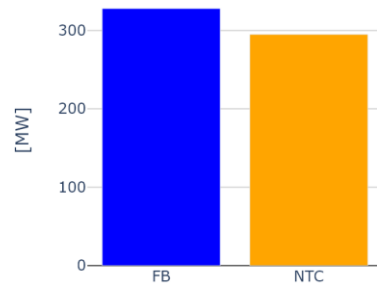
SE3 > SE4 Average flow on border



SE4 > DE/LU Physical Flow



SE4 > DE/LU Average flow on border





Flows per border (FB)

Values are rounded to the nearest integer.

Border	Congestion Income (total)	Avg. Price Spread
DK1 > DE/LU	7937370	27
DK1 > DK2	661025	8
DK1 > NL	-1440621	-14
DK1 > NO2	2224232	9
DK1 > SE3	1893049	15
DK2 > DE/LU	1236949	9
DK2 > SE4	2905126	26
EE > FI	1955496	33
FI > NO4	786	27
FI > SE1	1007291	23
FI > SE3	3756599	19
LT > SE4	5900732	50
NL > NO2	3425354	35
NO1 > NO2	441958	2
NO1 > NO3	224761	8
NO1 > NO5	189631	2
NO1 > SE3	39861	0
NO2 > DE/LU	6619588	36
NO2 > NO5	219401	3
NO3 > NO4	106336	1
NO3 > NO5	-172660	-6
NO3 > SE2	188028	3
NO4 > SE2	72823	5
PL > SE4	4385994	47
SE1 > NO4	216031	5
SE1 > SE2	-39606	0
SE2 > SE3	4117307	4
SE3 > SE4	510939	1
SE4 > DE/LU	3503442	36



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	4	-135406	-69
DK1 > DK2	19	-692567	-43
DK1 > NL	43	-2377801	-52
DK1 > NO2	36	-879564	-14
DK1 > SE3	26	-189334	-11
DK2 > DE/LU	3	-9196	-6
DK2 > SE4	7	-16443	-2
EE > FI	0	0	0
FI > NO4	4	-1	-5
FI > SE1	2	-74	0
FI > SE3	12	-105201	-5
LT > SE4	1	-22	0
NL > NO2	3	-2408	-3
NO1 > NO2	4	-2311	-1
NO1 > NO3	4	-649	-11
NO1 > NO5	17	-17023	-1
NO1 > SE3	41	-142324	-3
NO2 > DE/LU	2	-2016	-4
NO2 > NO5	8	-1942	-2
NO3 > NO4	28	-35588	-5
NO3 > NO5	60	-179492	-11
NO3 > SE2	24	-21693	-4
NO4 > SE2	5	-301	-3
PL > SE4	10	-643906	-75
SE1 > NO4	5	-893	-1
SE1 > SE2	42	-59881	-1
SE2 > SE3	36	-42100	-1
SE3 > SE4	21	-11177	0
SE4 > DE/LU	0	0	0