Nordic Capacity Calculation Methodology Project (Nordic CCM)

Nordic CCM

External Parallel Run Market Report
Appendix for Week 8 of 2024

Appendix

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Socio Economic Welfare 3

Prices 17

Net positions 25

Border flow 49

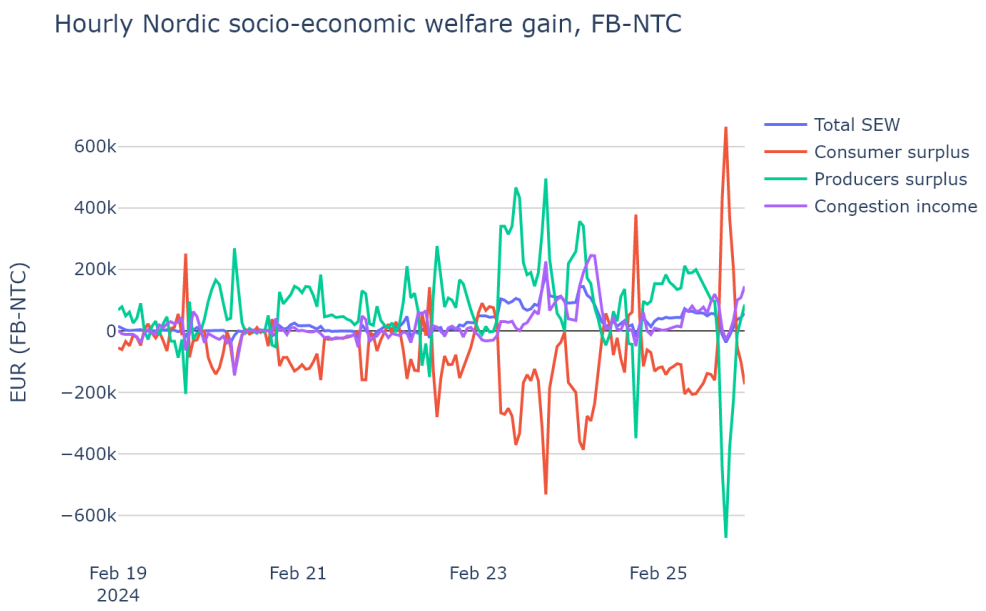
Domain validation

Energy Delivery Day:	Mon. 19.02	Tue. 20.02	Wed. 21.02	Thu. 22.02	Fri. 23.02	Sat. 24.02	Sun. 25.02
Invalid/missing IGMs	0	0	0	0	36	0	0
Substituted IGMs	0	0	0	0	36	0	0
Invalid CGMs	0	0	0	0	0	0	0
FB domain back-up	0	0	0	0	0	0	0
FAV provision	0	1	0	0	0	0	0
Final domain acceptance (1 TSO =25%)	100%	100%	100%	100%	100%	100%	100%

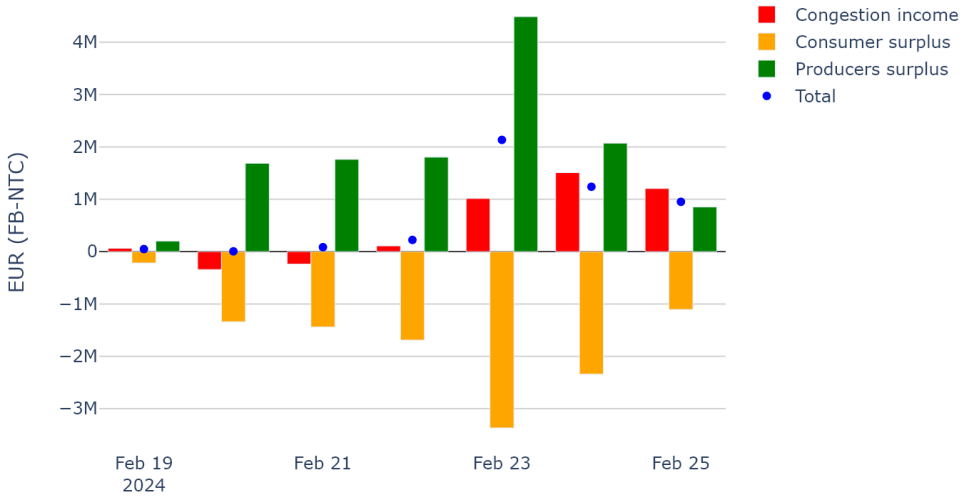
Socio Economic Welfare

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.

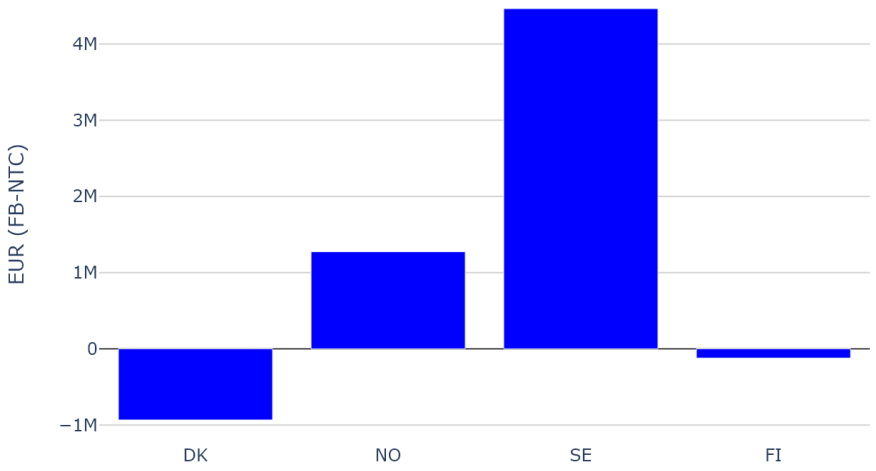
Nordics

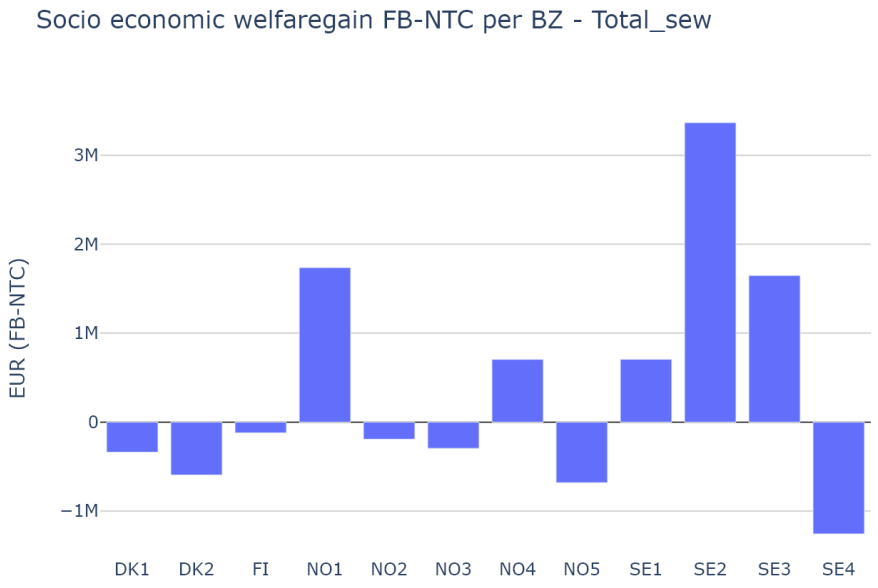


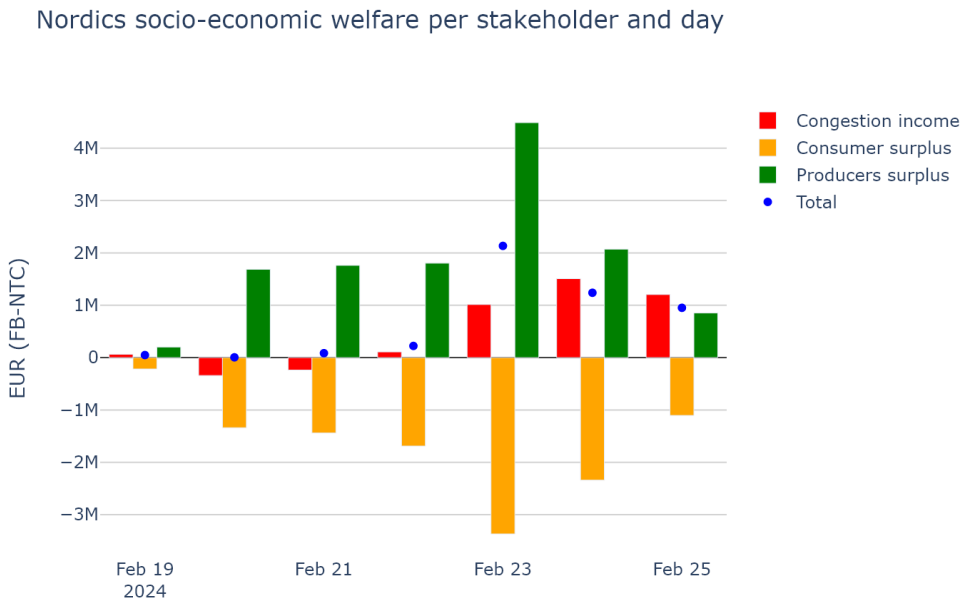
Nordics socio-economic welfare per stakeholder and day



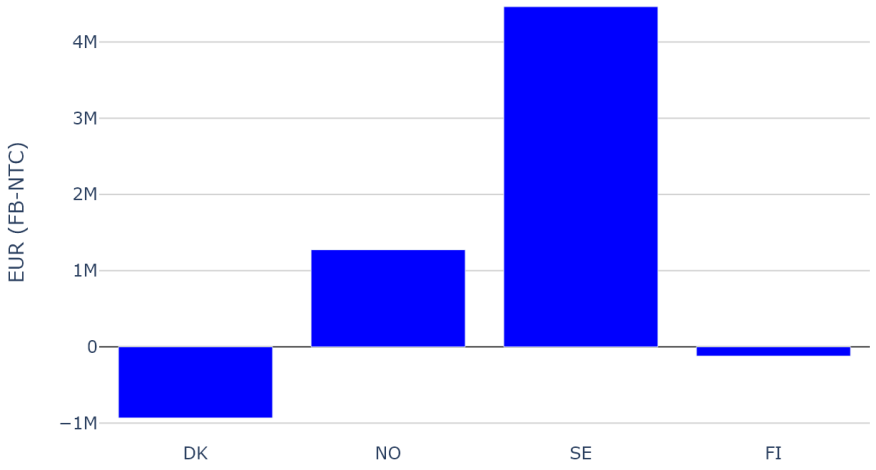
Total Nordic socio-economic welfare per country



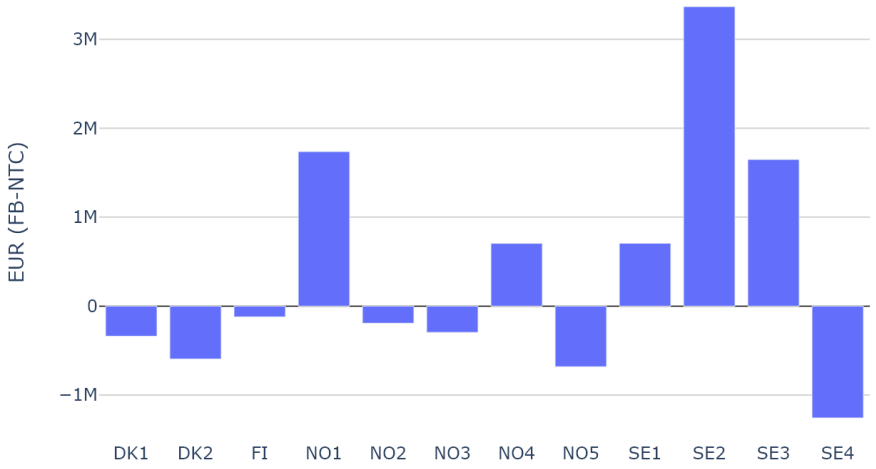

Socio economic welfaregain FB-NTC per BZ - Total_sew
EUR (FB-NTC)
3M
2M
1M
0
−1M
DK1
DK2
FI
NO1
NO2
NO3
NO4
NO5
SE1
SE2
SE3
SE4


Nordics socio-economic welfare per stakeholder and day
EUR (FB-NTC)
4M
3M
2M
1M
0
−1M
−2M
−3M
Feb 19
2024
Feb 21
Feb 23
Feb 25
Congestion income
Consumer surplus
Producers surplus
Total

Total Nordic socio-economic welfare per country

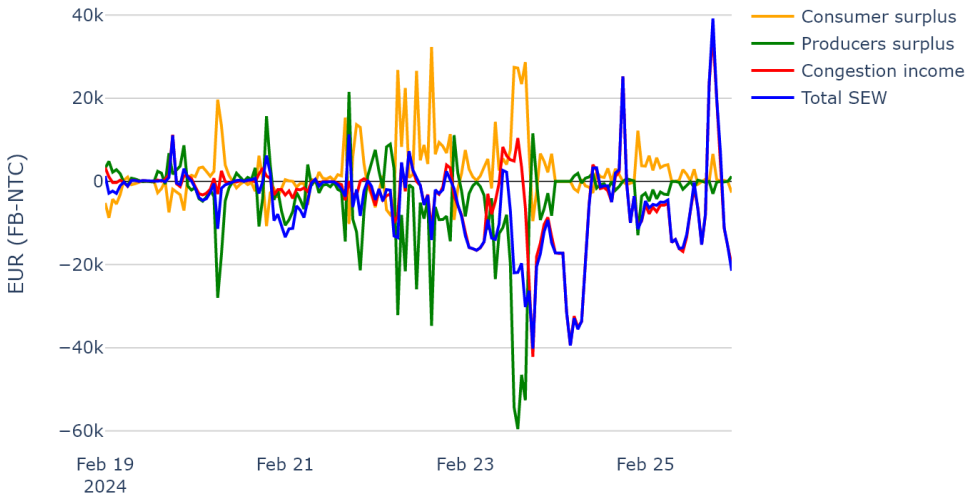


Socio economic welfaregain FB-NTC per BZ - Total_sew

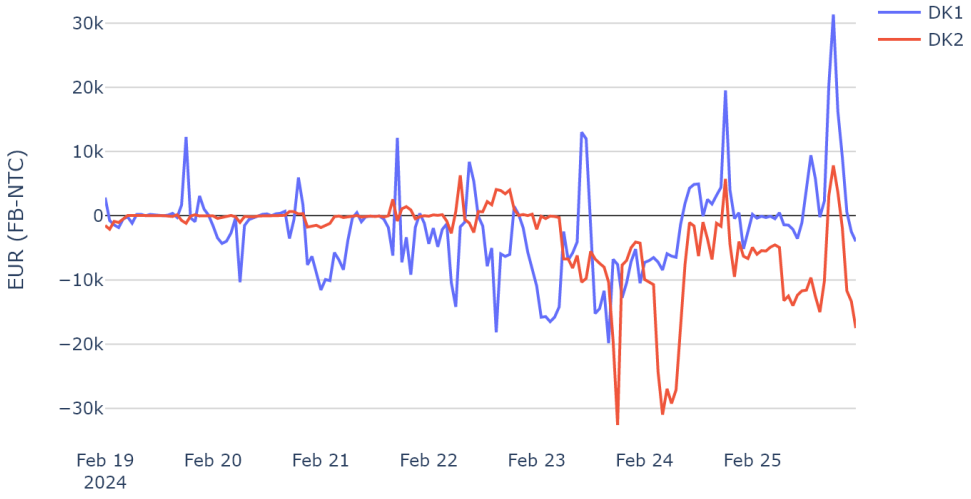


Denmark

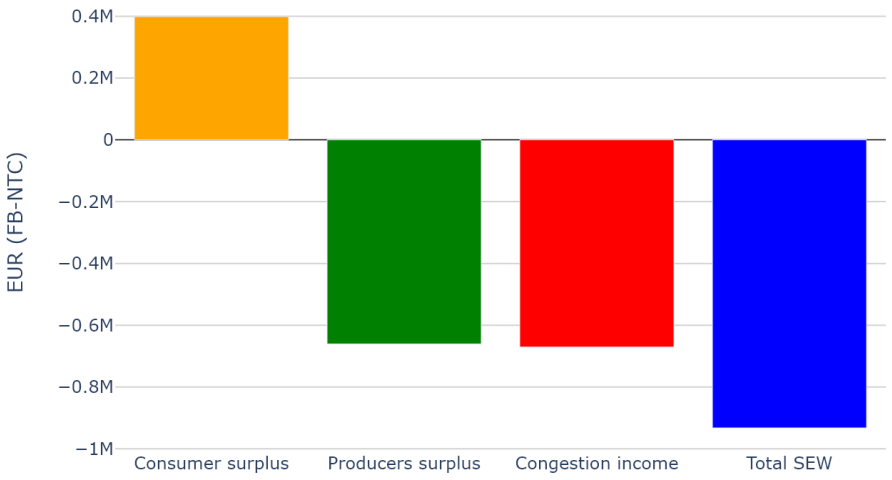
DK, socio-economic welfare per stakeholder and country



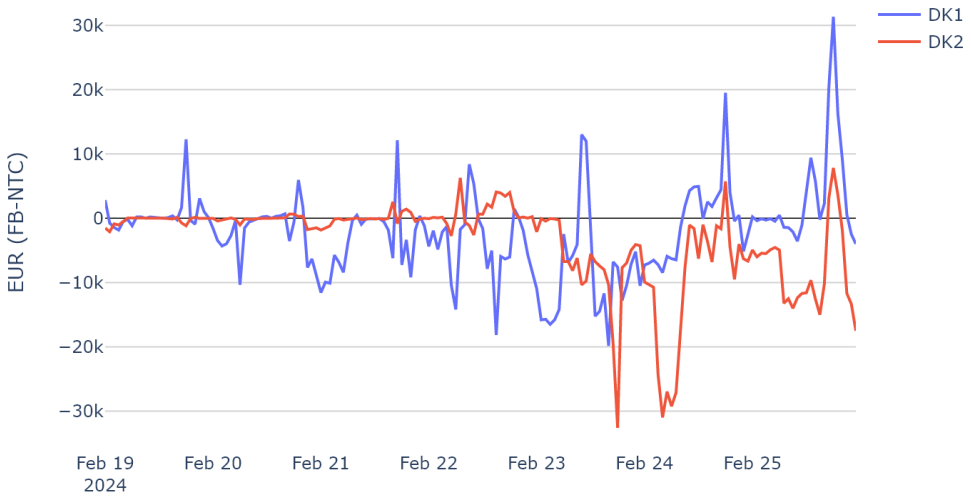
Total socio economic welfaregain FB-NTC per BZ in DK



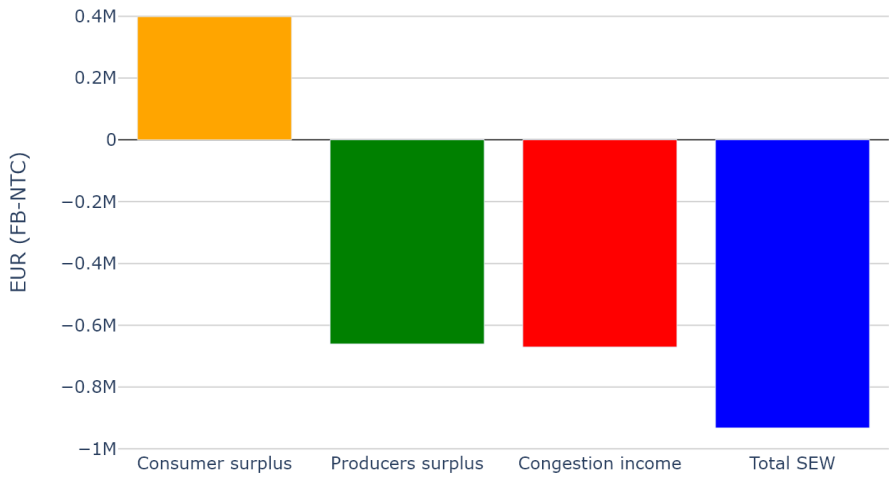
DK, socio-economic welfare per stakeholder and country



Total socio economic welfaregain FB-NTC per BZ in DK

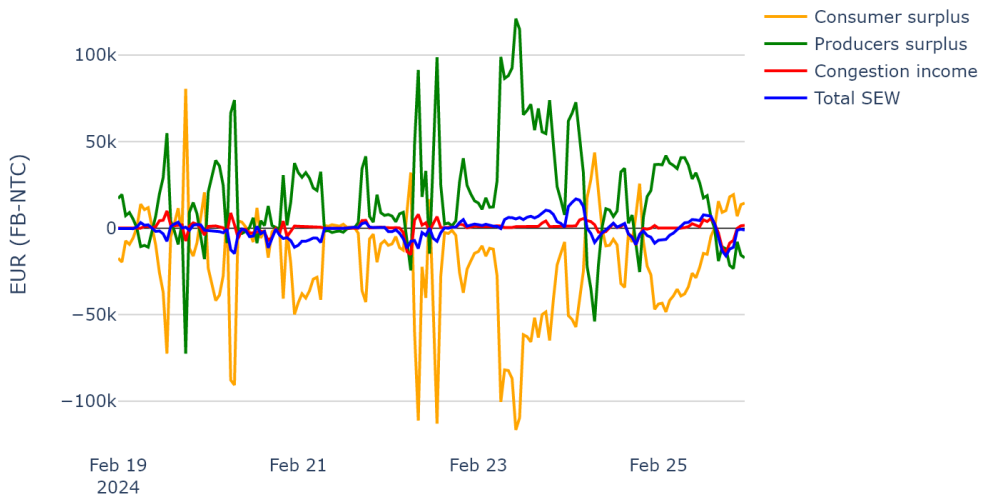


DK, socio-economic welfare per stakeholder and country

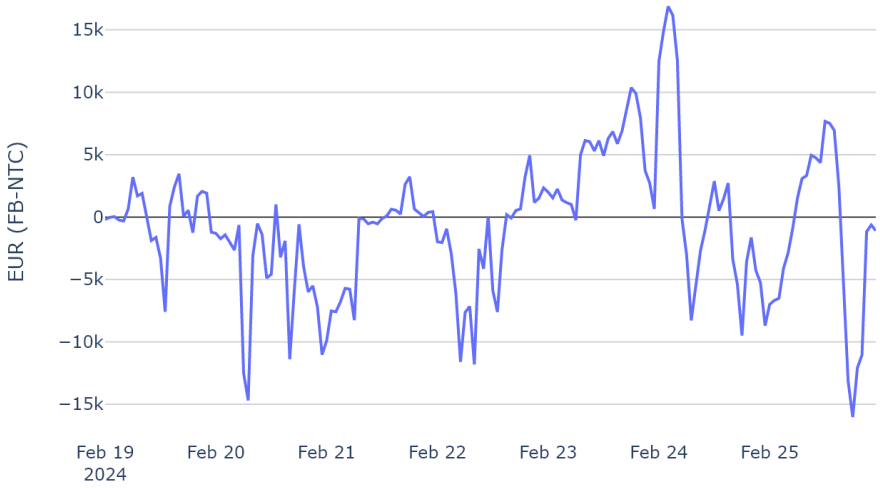


Finland

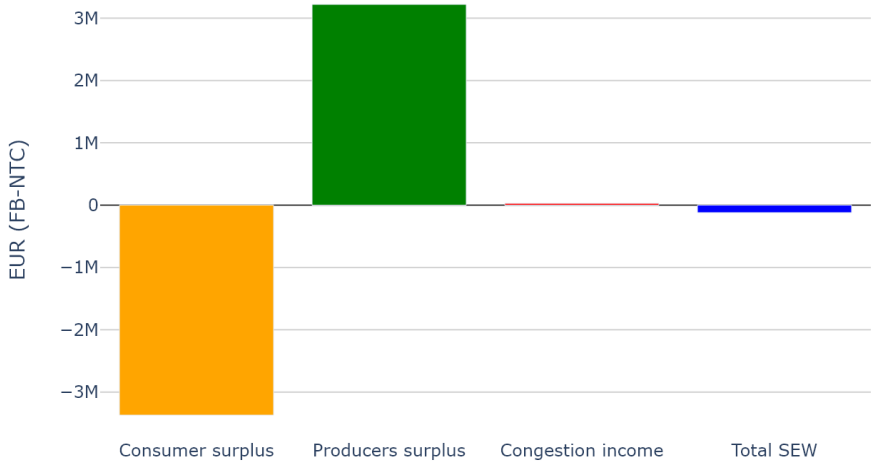
FI, socio-economic welfare per stakeholder and country



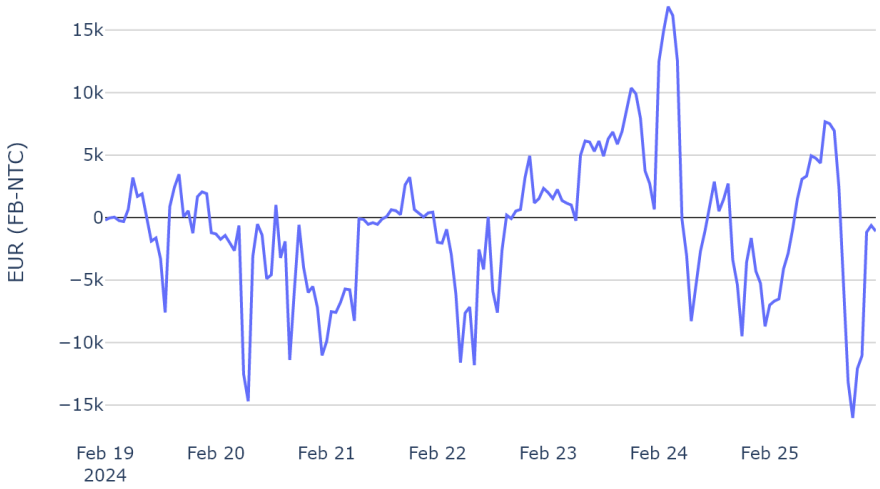
Total socio economic welfaregain FB-NTC per BZ in FI



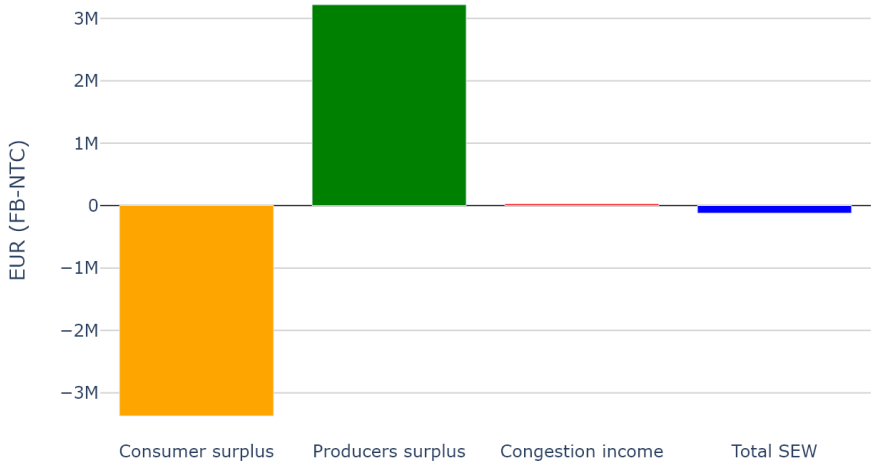
FI, socio-economic welfare per stakeholder and country



Total socio economic welfaregain FB-NTC per BZ in FI

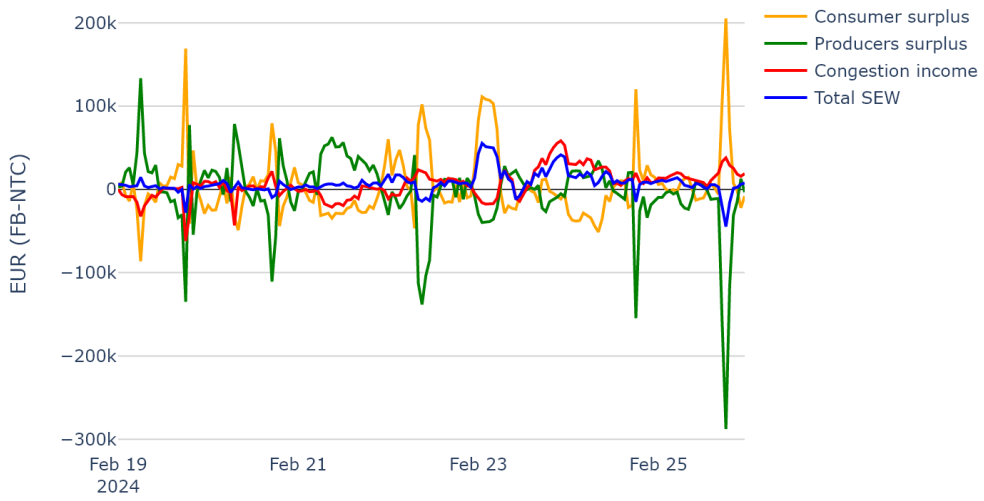


FI, socio-economic welfare per stakeholder and country

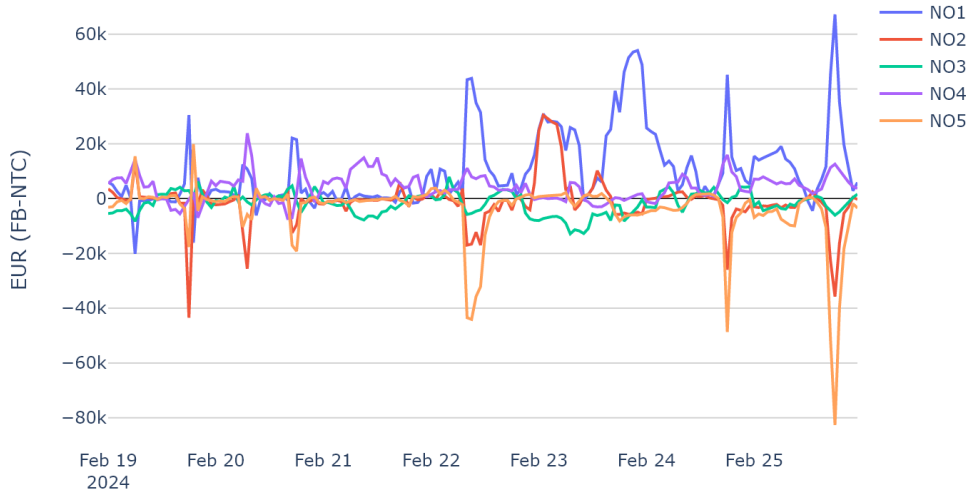


Norway

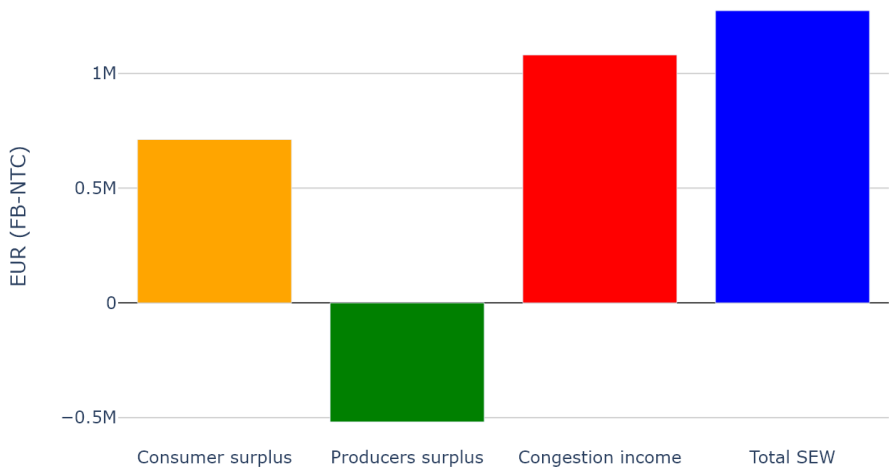
NO, socio-economic welfare per stakeholder and country



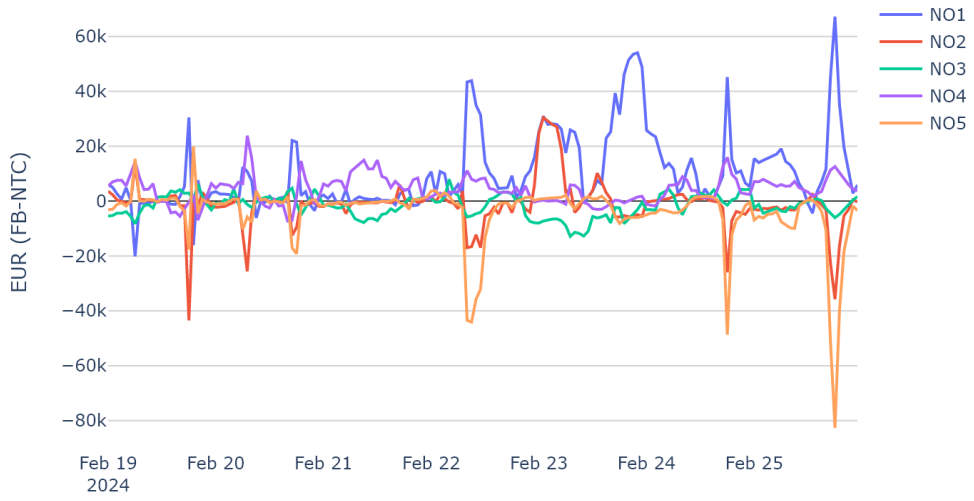
Total socio economic welfaregain FB-NTC per BZ in NO

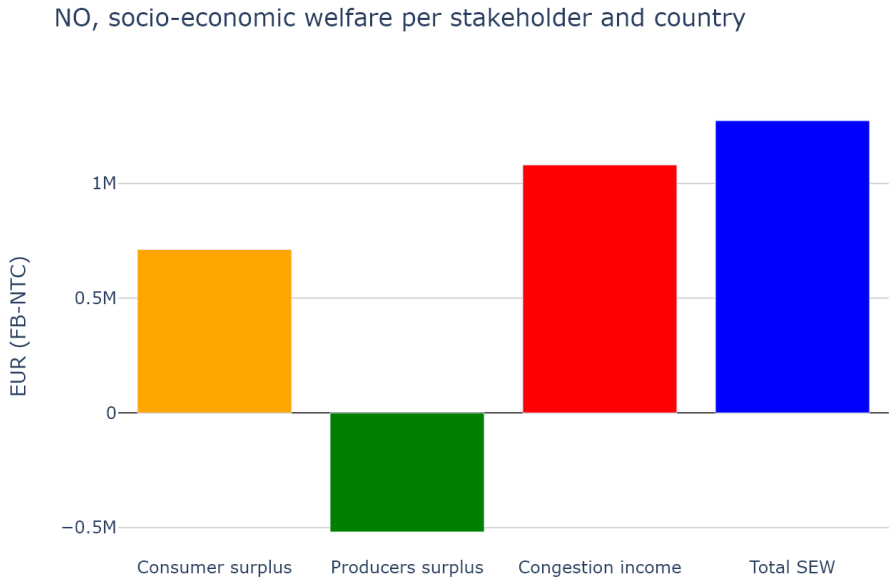


NO, socio-economic welfare per stakeholder and country

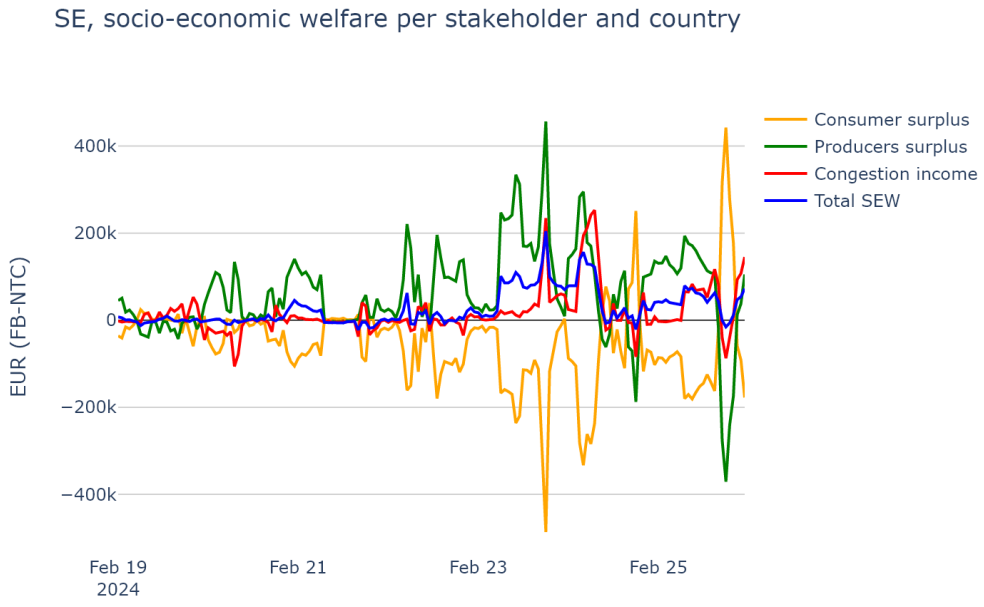


Total socio economic welfaregain FB-NTC per BZ in NO

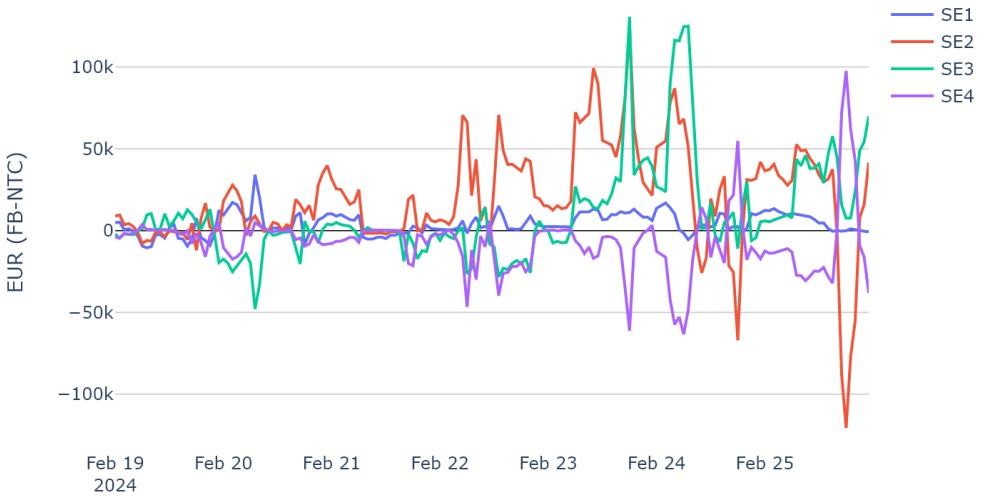



NO, socio-economic welfare per stakeholder and country
EUR (FB-NTC)
1M
0.5M
0
−0.5M
Consumer surplus
Producers surplus
Congestion income
Total SEW

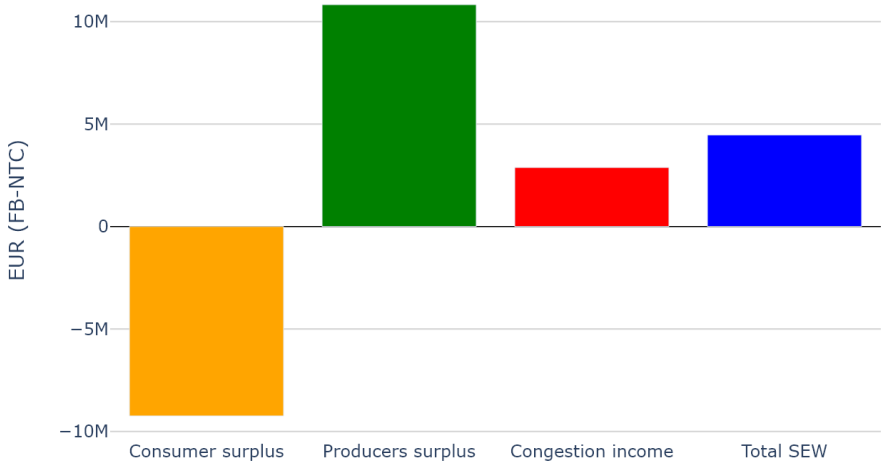
Sweden


SE, socio-economic welfare per stakeholder and country
EUR (FB-NTC)
400k
200k
0
−200k
−400k
Feb 19
2024
Feb 21
Feb 23
Feb 25
Consumer surplus
Producers surplus
Congestion income
Total SEW

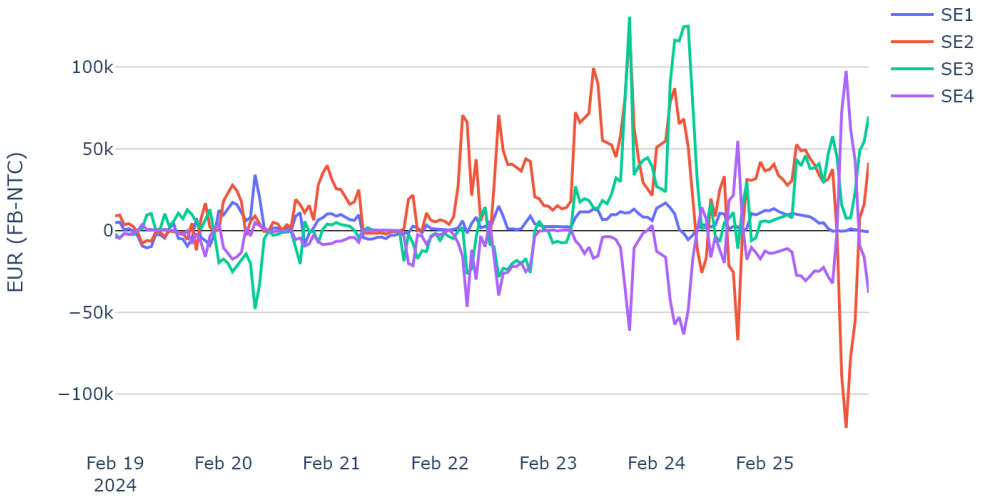
Total socio economic welfaregain FB-NTC per BZ in SE



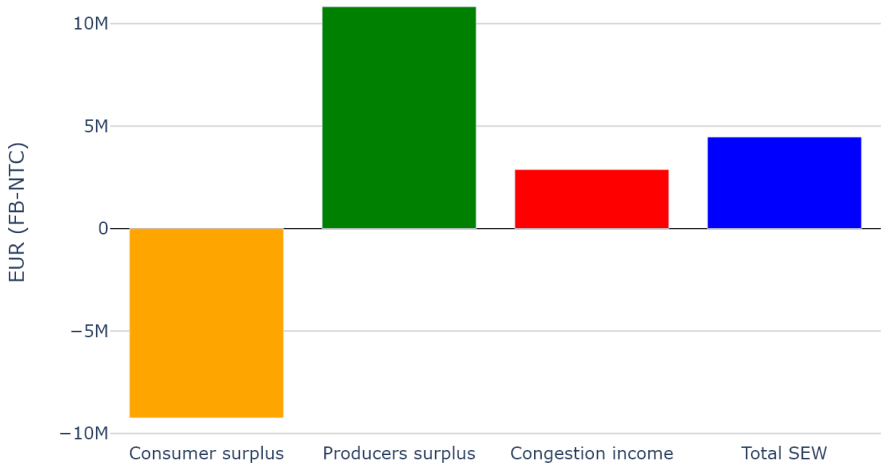
SE, socio-economic welfare per stakeholder and country



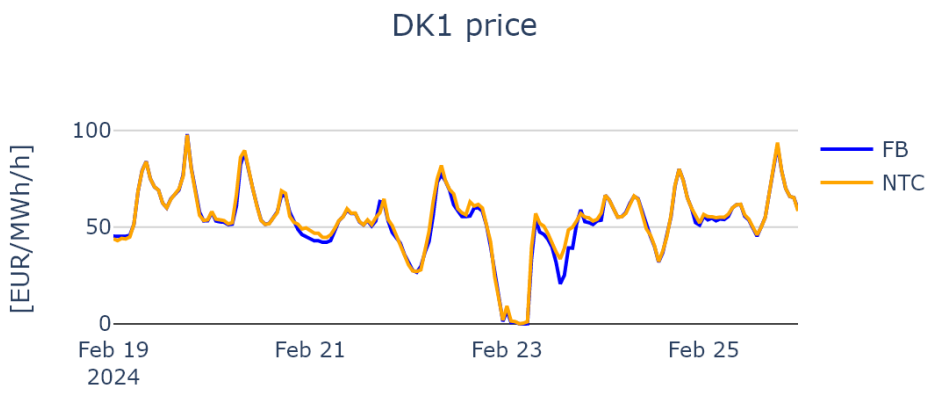
Total socio economic welfaregain FB-NTC per BZ in SE

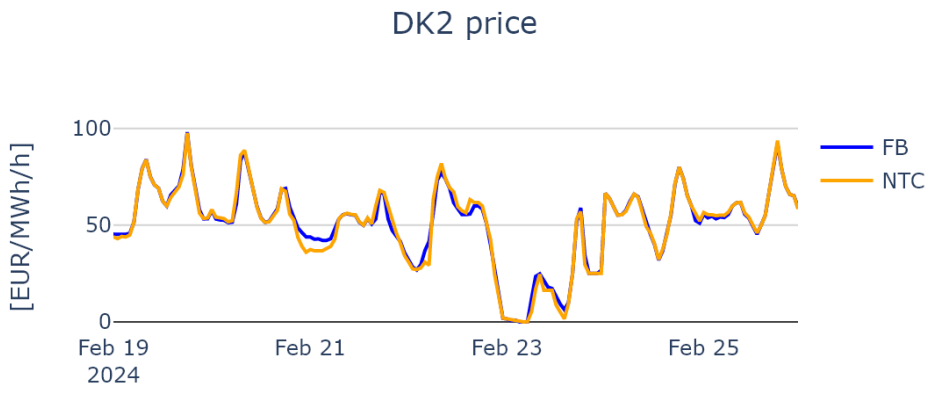


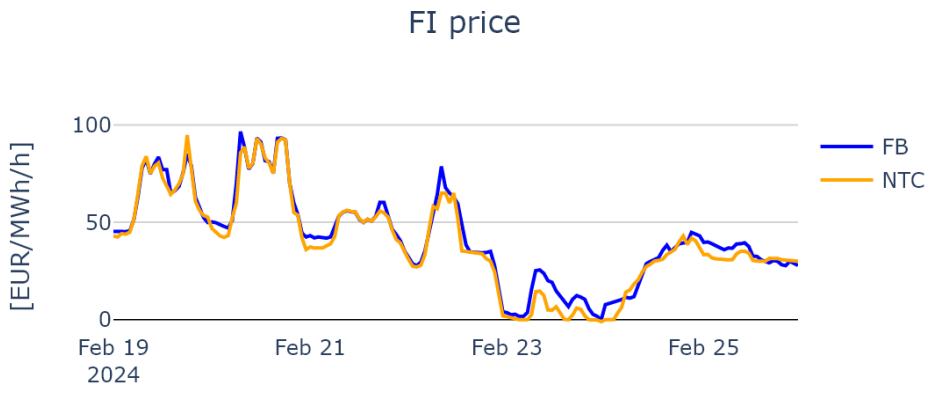
SE, socio-economic welfare per stakeholder and country

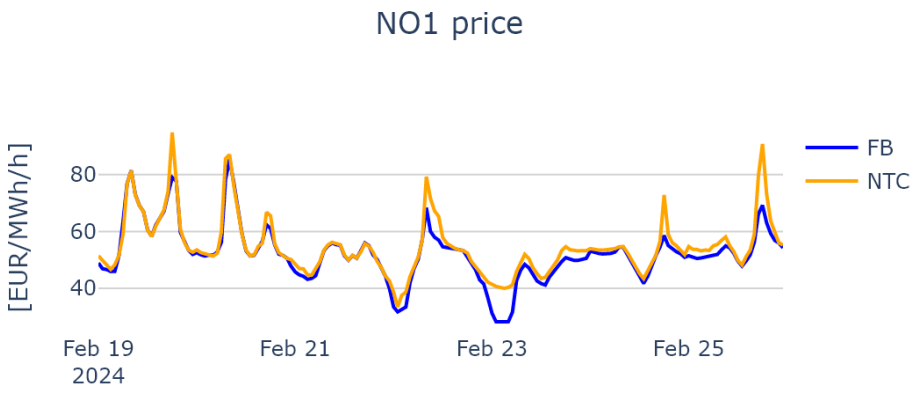


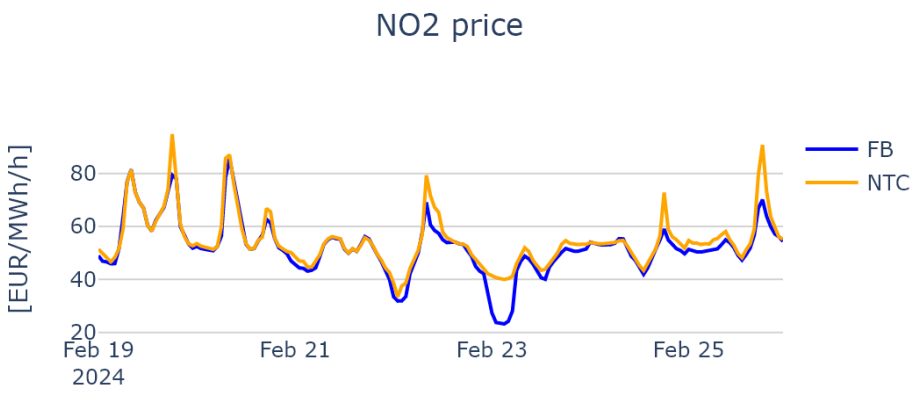
Prices

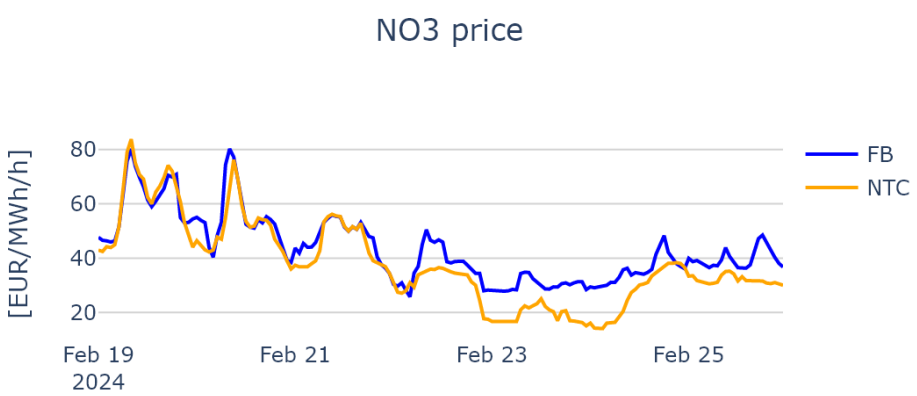

DK1 price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

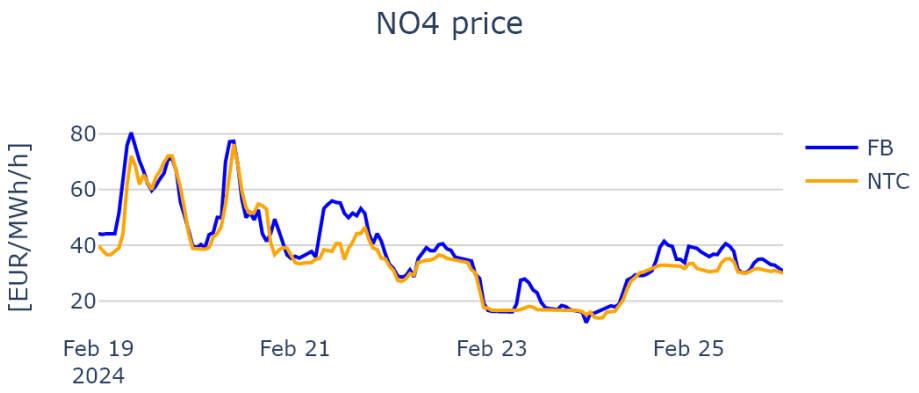

DK2 price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

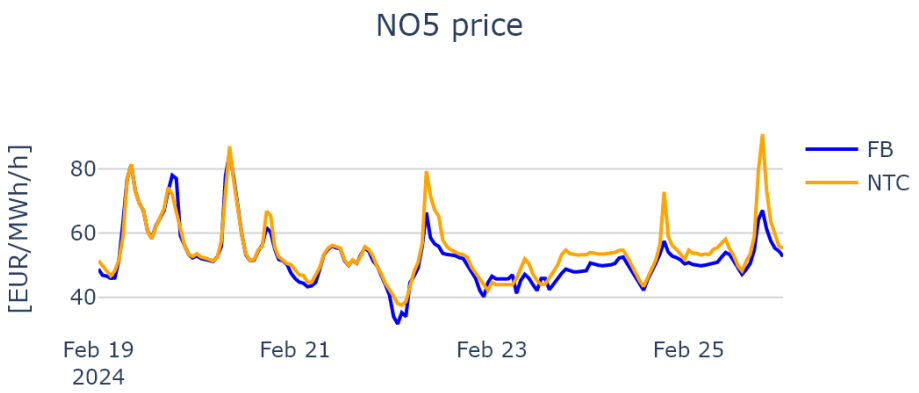

FI price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

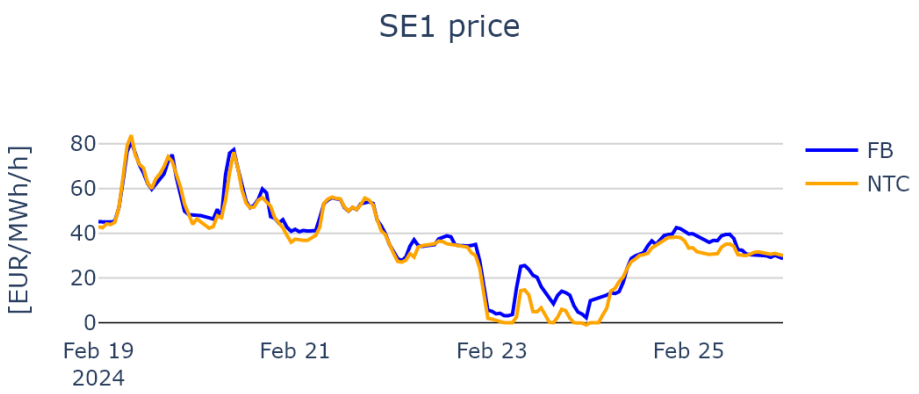

NO1 price
[EUR/MWh/h]
80
60
40
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

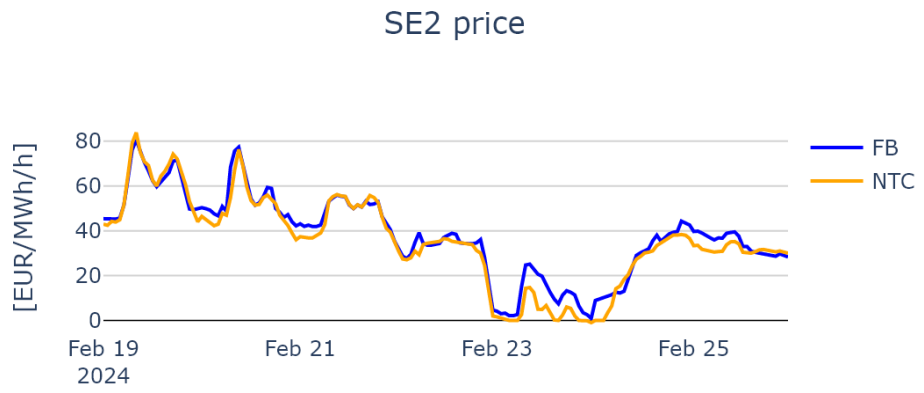

NO2 price
[EUR/MWh/h]
80
60
40
20
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

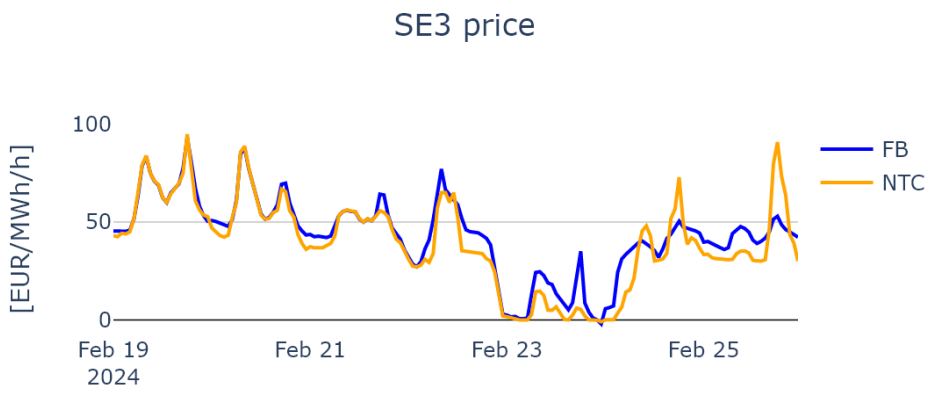

NO3 price
[EUR/MWh/h]
80
60
40
20
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

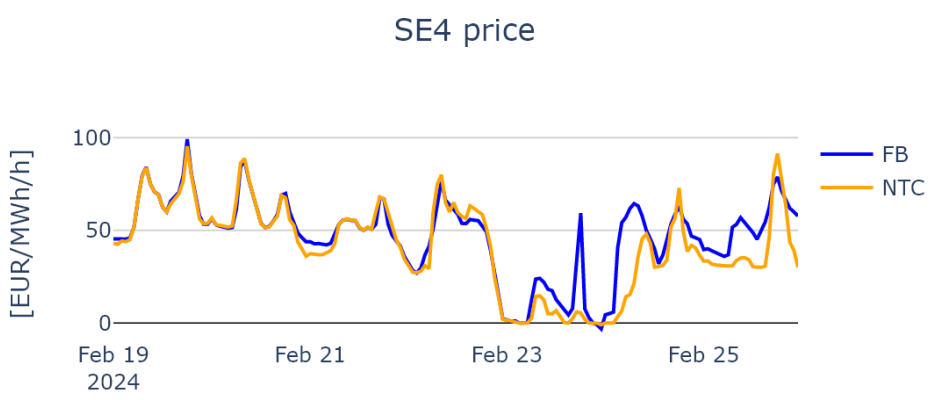

NO4 price
[EUR/MWh/h]
80
60
40
20
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

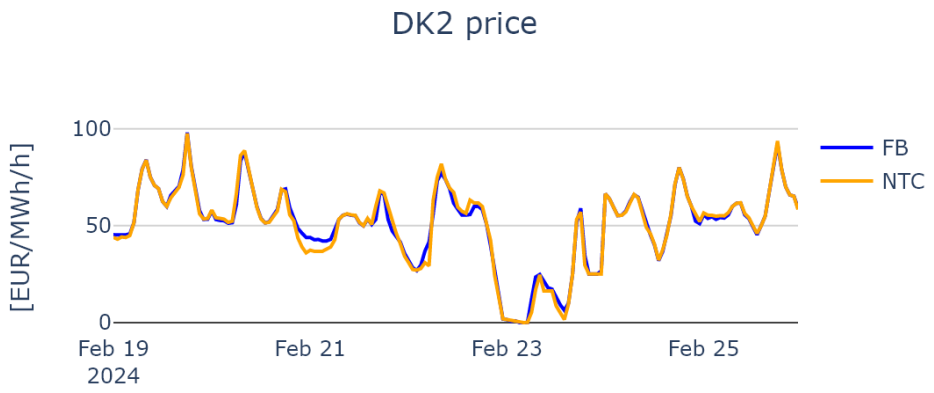

NO5 price
[EUR/MWh/h]
80
60
40
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

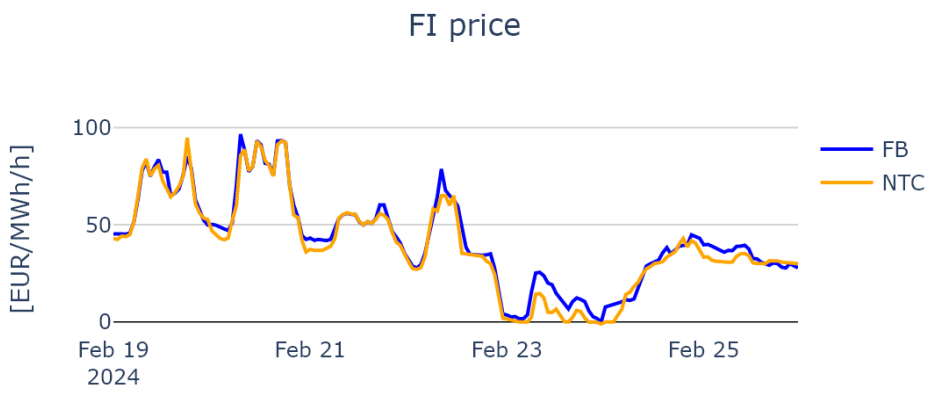

SE1 price
[EUR/MWh/h]
80
60
40
20
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

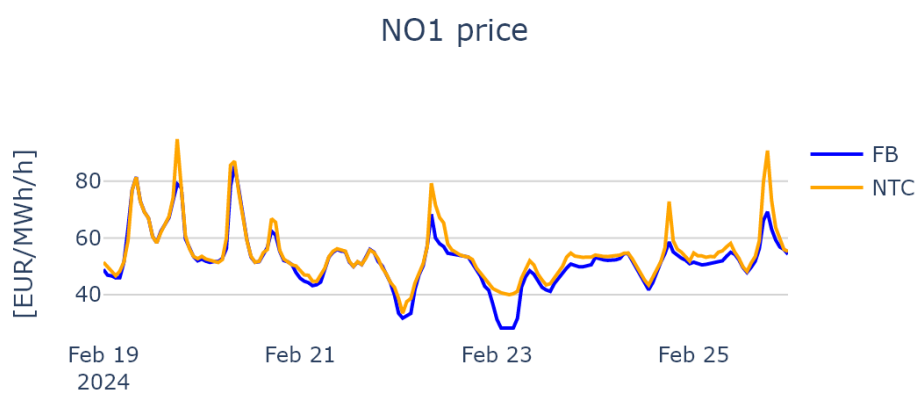

SE2 price
[EUR/MWh/h]
80
60
40
20
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

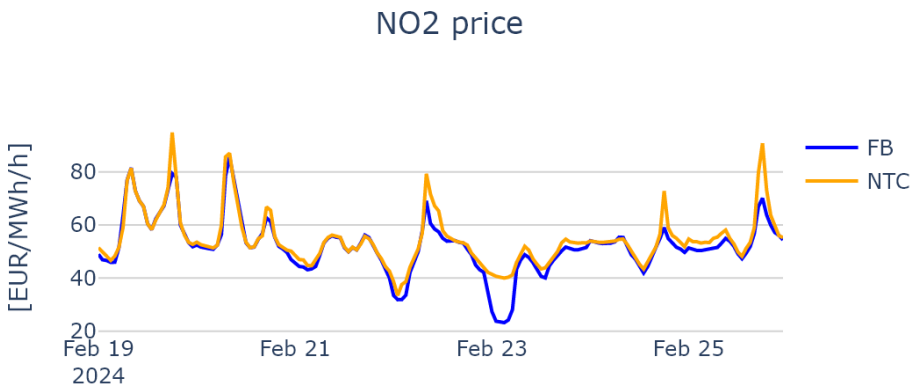

SE3 price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

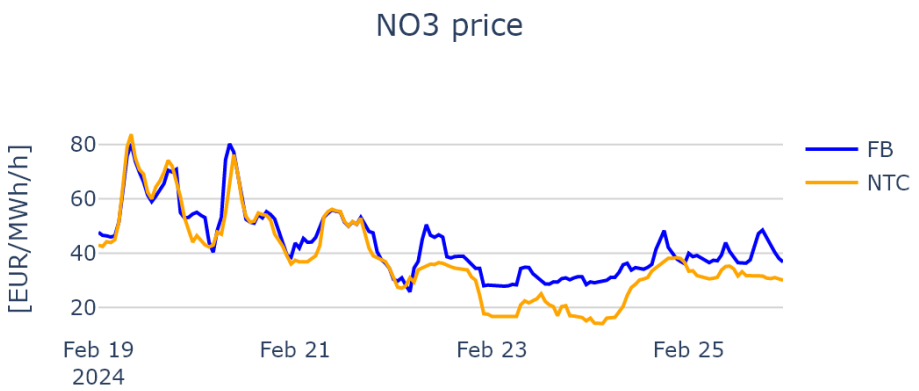

SE4 price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

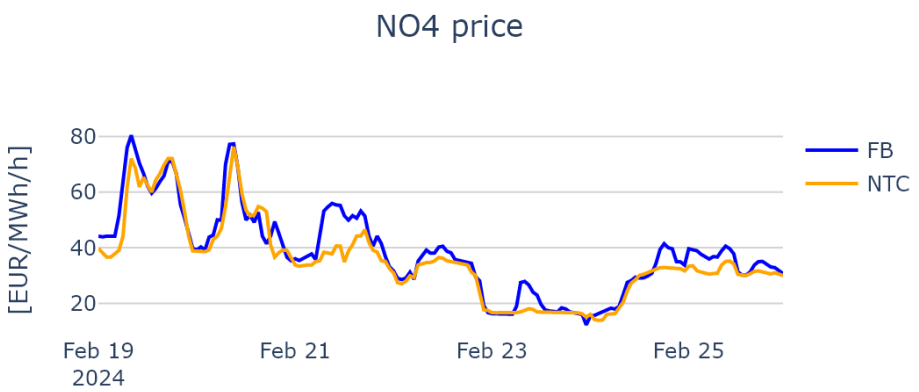

DK2 price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

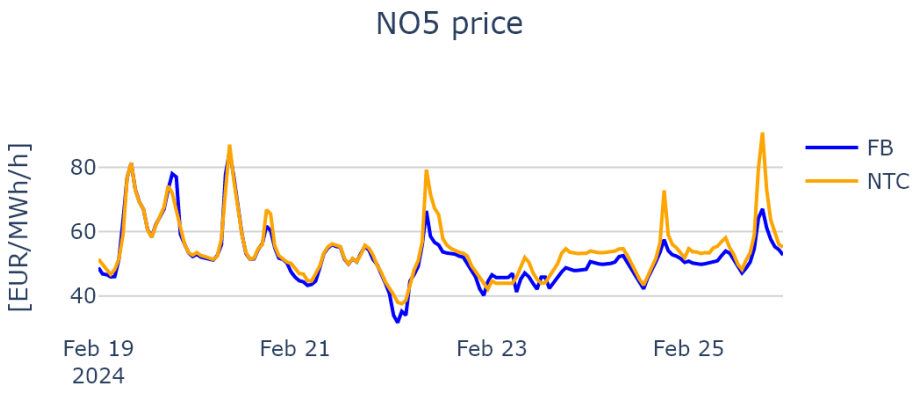

FI price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

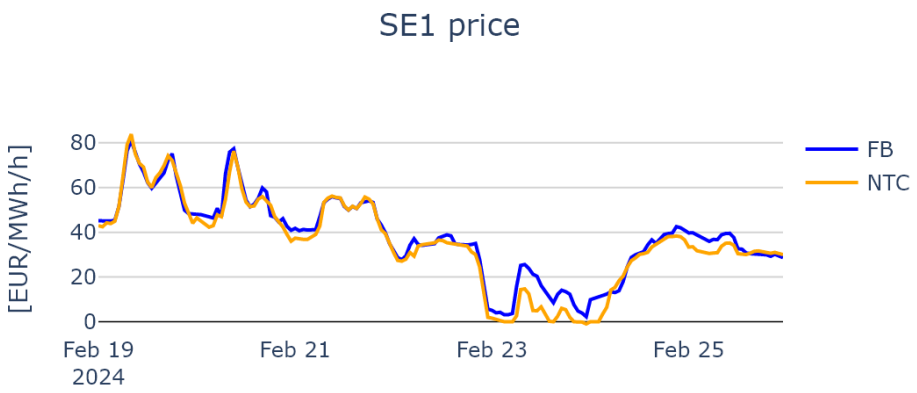

NO1 price
[EUR/MWh/h]
80
60
40
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

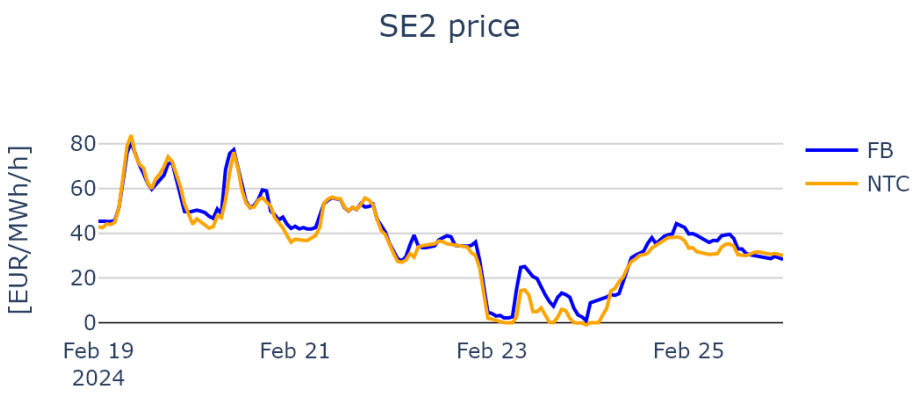

NO2 price
[EUR/MWh/h]
80
60
40
20
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

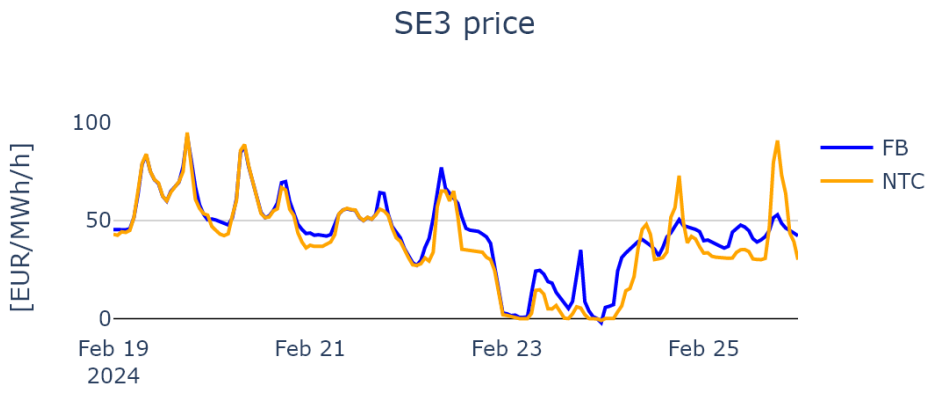

NO3 price
[EUR/MWh/h]
80
60
40
20
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

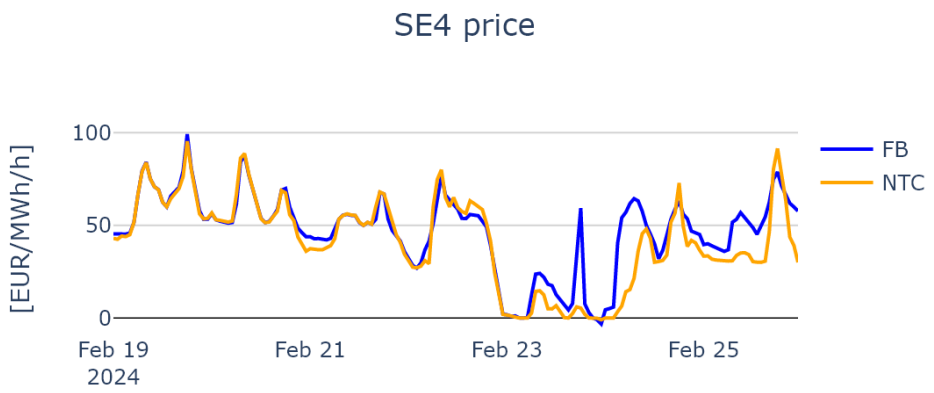

NO4 price
[EUR/MWh/h]
80
60
40
20
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC


NO5 price
[EUR/MWh/h]
80
60
40
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC


SE1 price
[EUR/MWh/h]
80
60
40
20
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

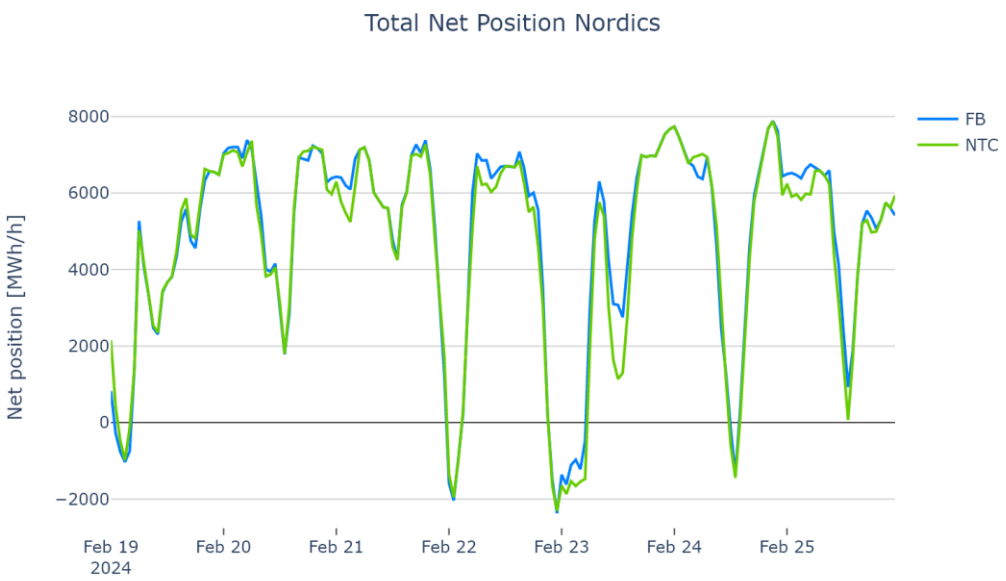

SE2 price
[EUR/MWh/h]
80
60
40
20
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

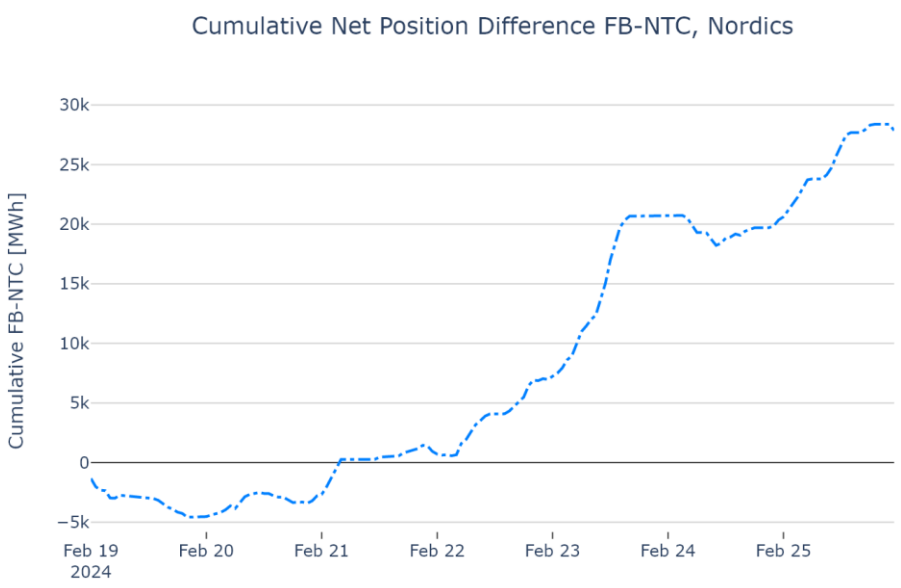

SE3 price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC


SE4 price
[EUR/MWh/h]
100
50
0
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

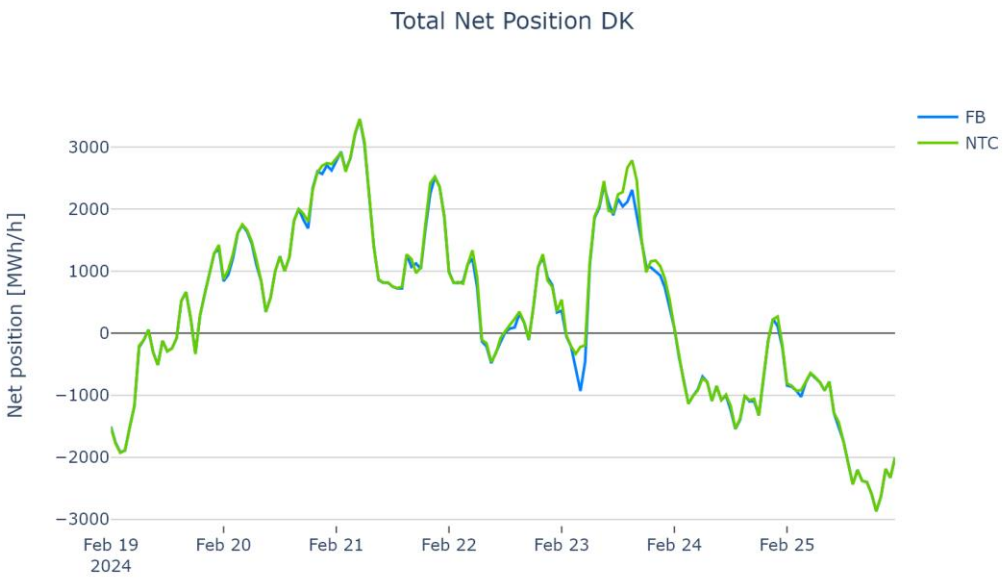
Net positions

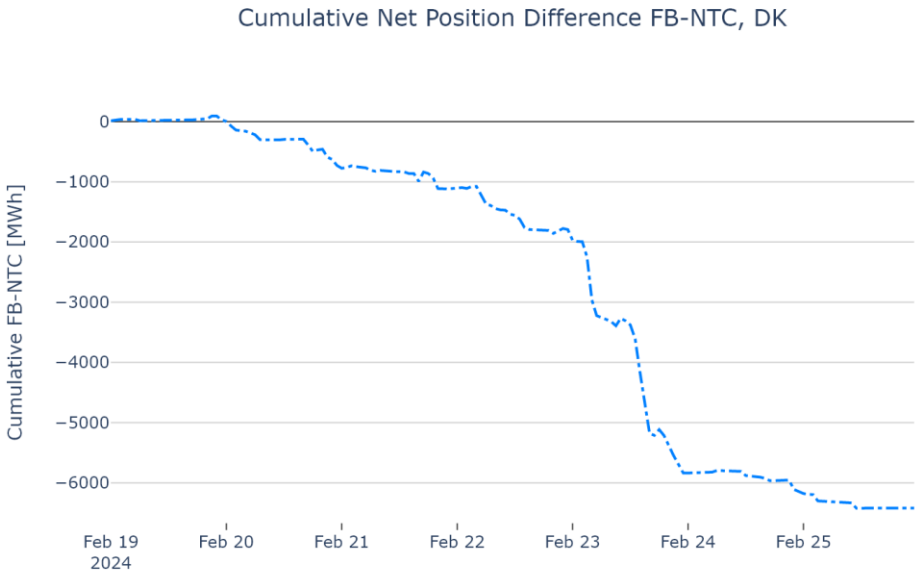
Nordics

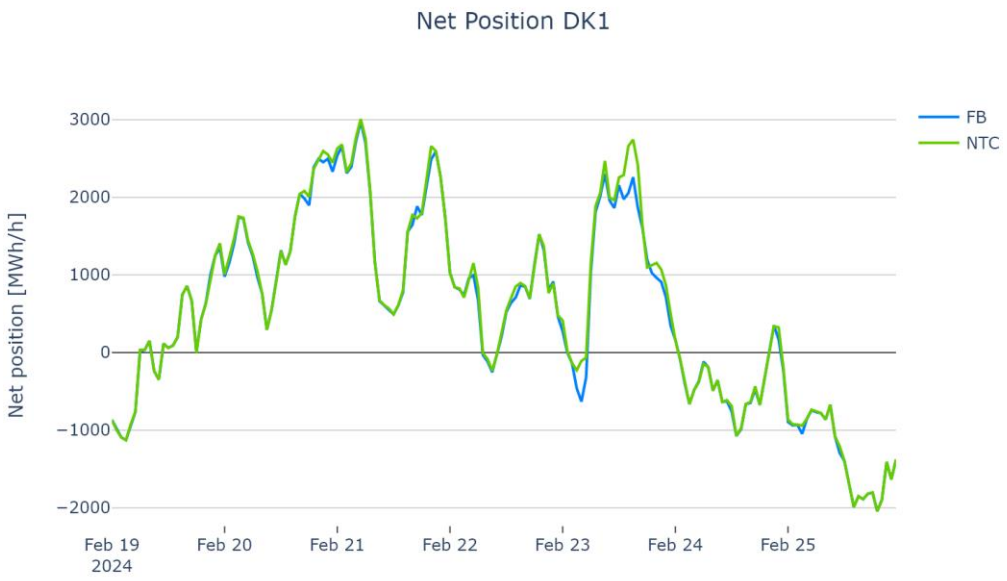


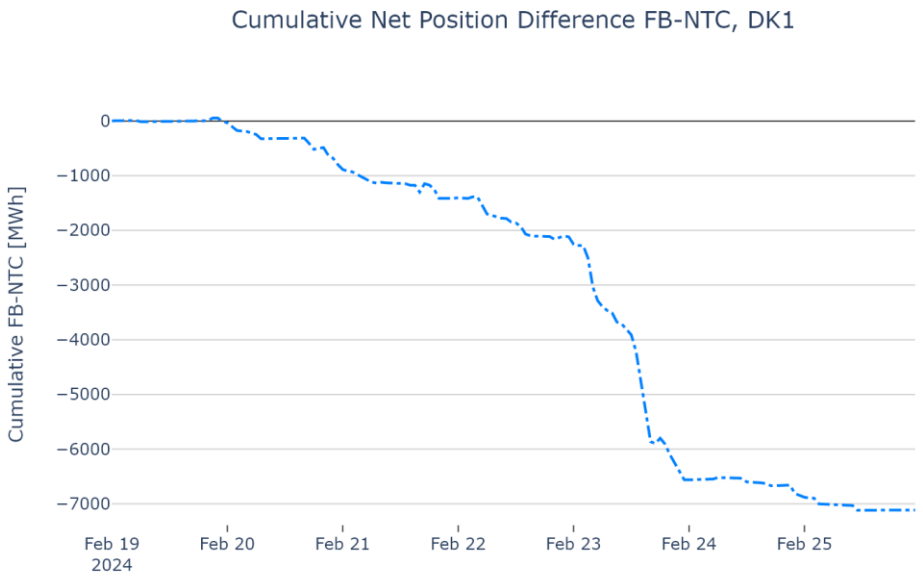


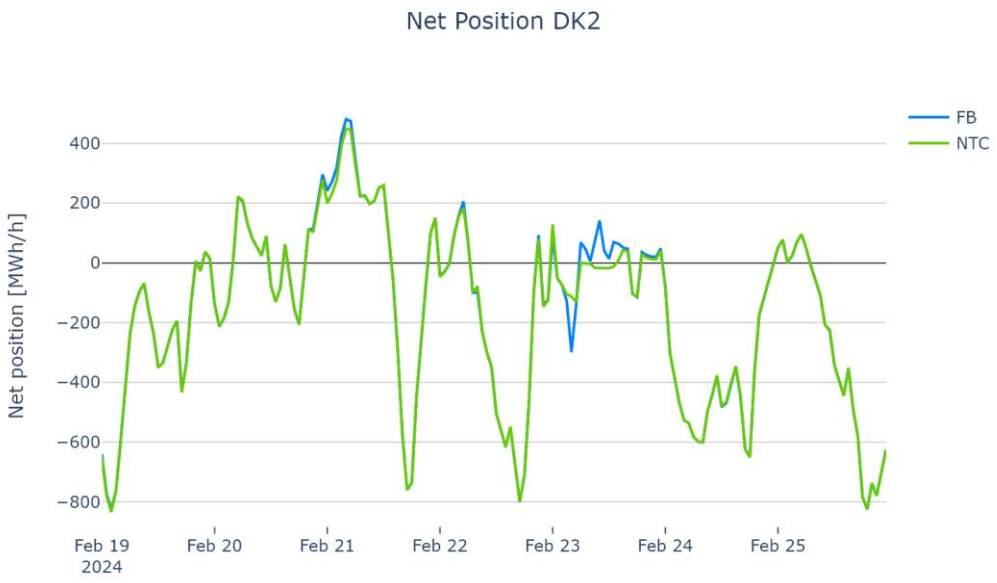
Denmark

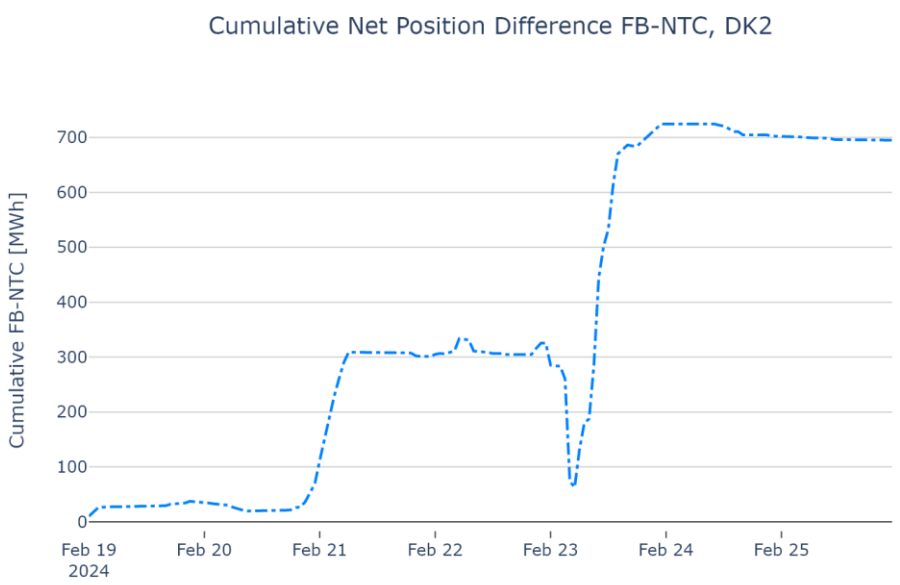

Total Net Position DK
FB
NTC
Net position [MWh/h]
3000
2000
1000
0
−1000
−2000
−3000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

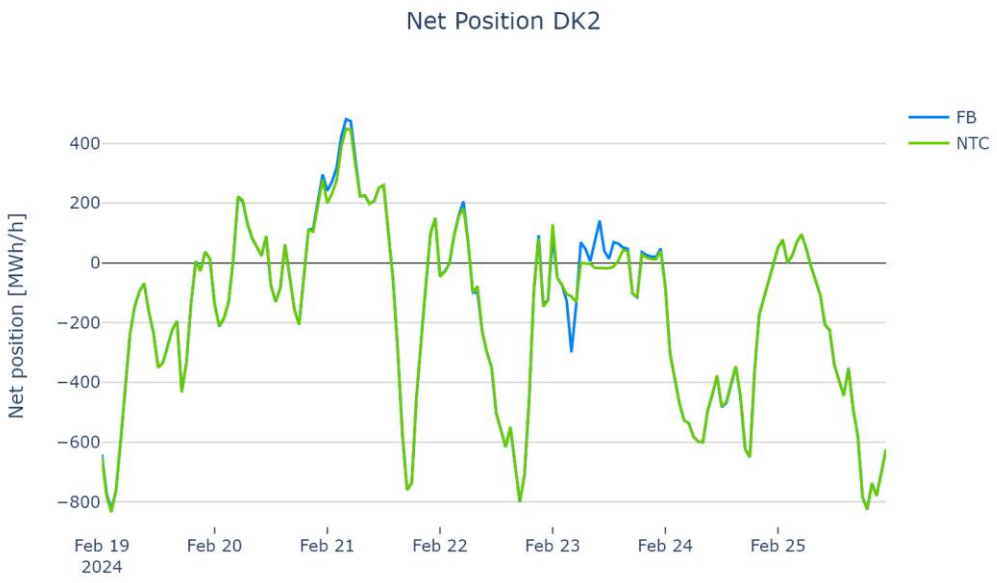

Cumulative Net Position Difference FB-NTC, DK
Cumulative FB-NTC [MWh]
0
−1000
−2000
−3000
−4000
−5000
−6000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

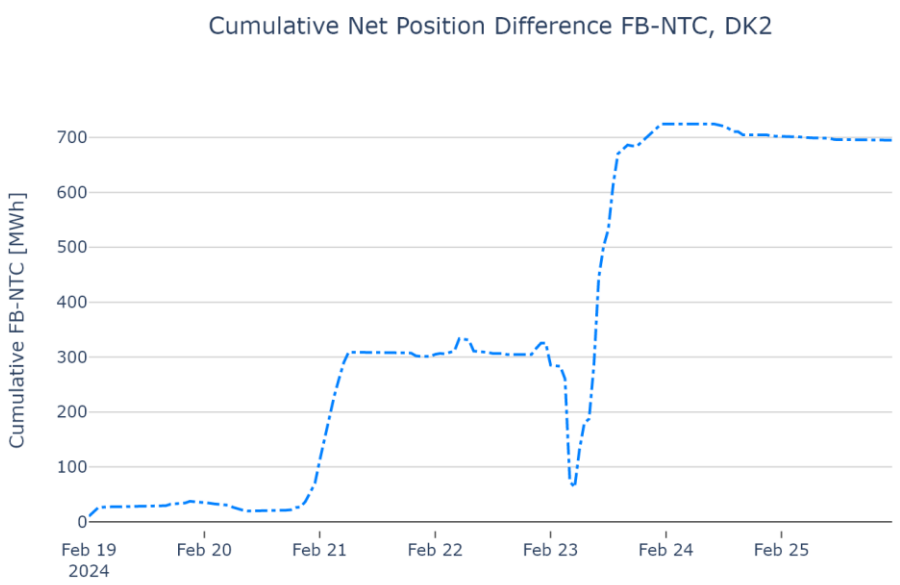

Net Position DK1
FB
NTC
Net position [MWh/h]
3000
2000
1000
0
−1000
−2000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25


Cumulative Net Position Difference FB-NTC, DK1
Cumulative FB-NTC [MWh]
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

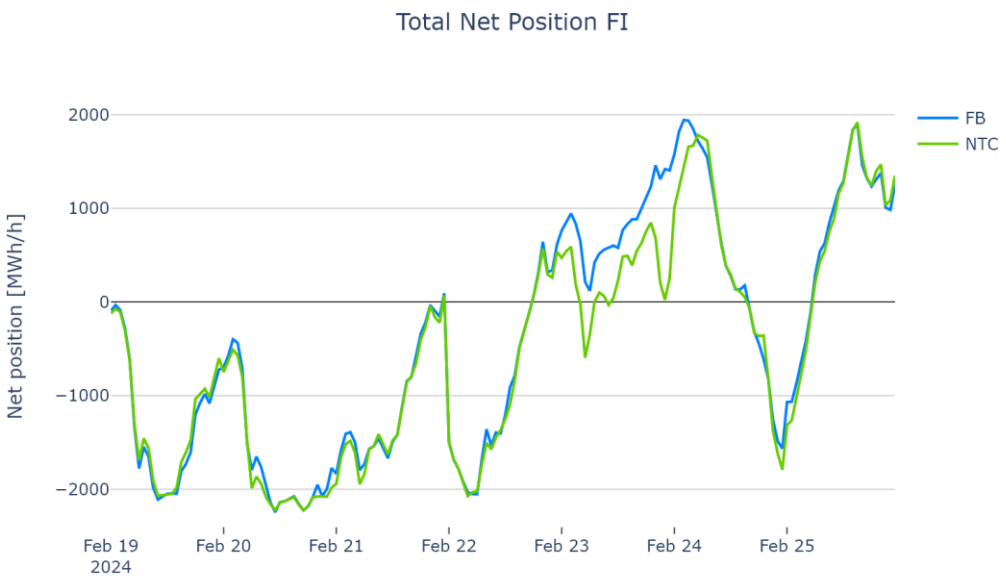

Net Position DK2
FB
NTC
Net position [MWh/h]
400
200
0
−200
−400
−600
−800
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

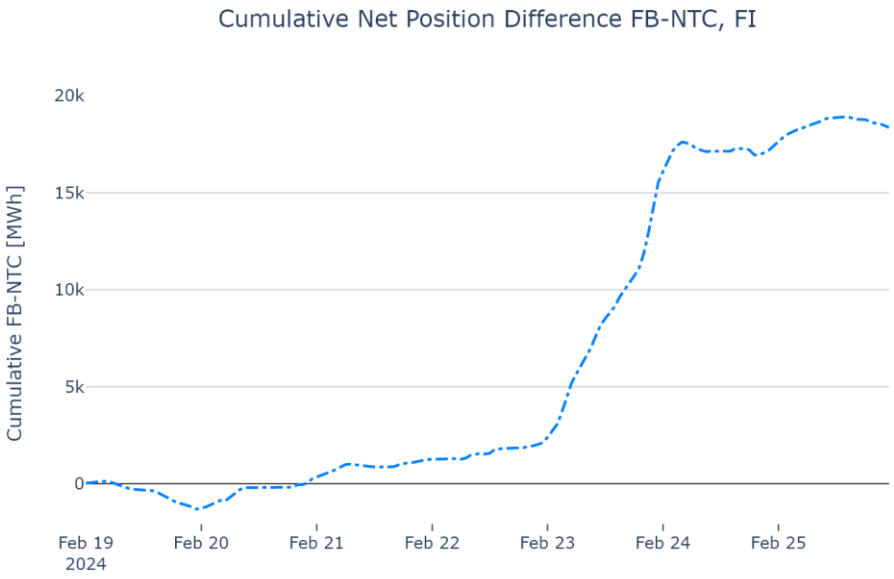

Cumulative Net Position Difference FB-NTC, DK2
Cumulative FB-NTC [MWh]
700
600
500
400
300
200
100
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25


Net Position DK2
FB
NTC
Net position [MWh/h]
400
200
0
−200
−400
−600
−800
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

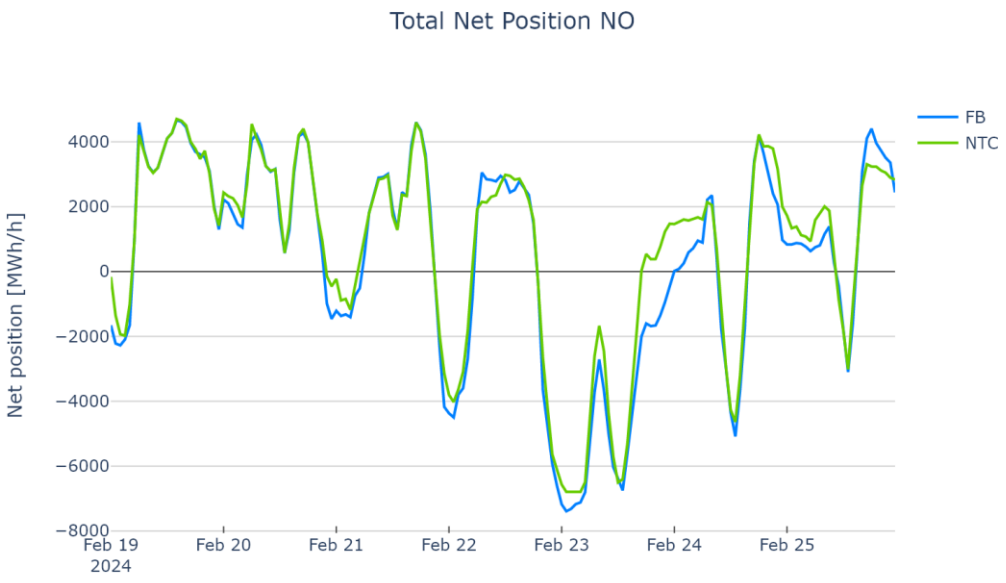

Cumulative Net Position Difference FB-NTC, DK2
Cumulative FB-NTC [MWh]
700
600
500
400
300
200
100
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

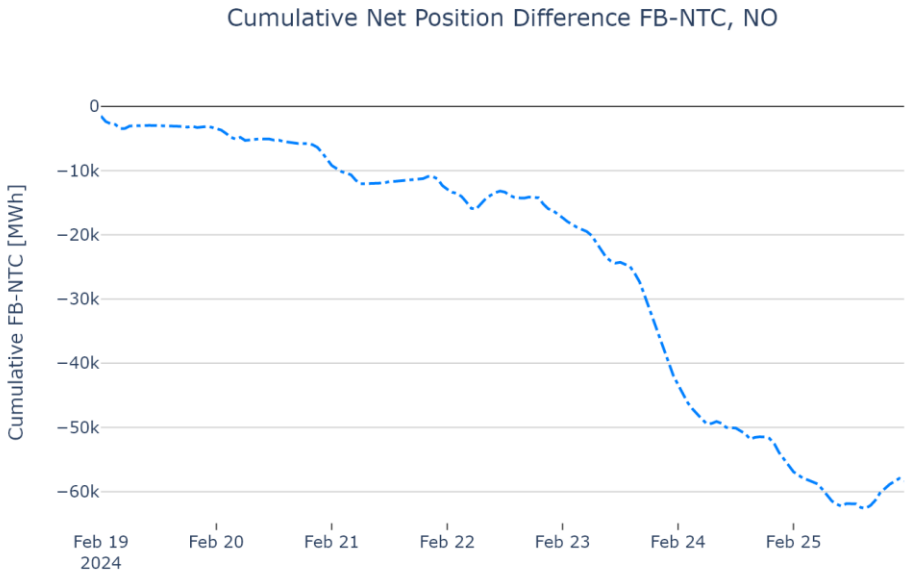
Finland

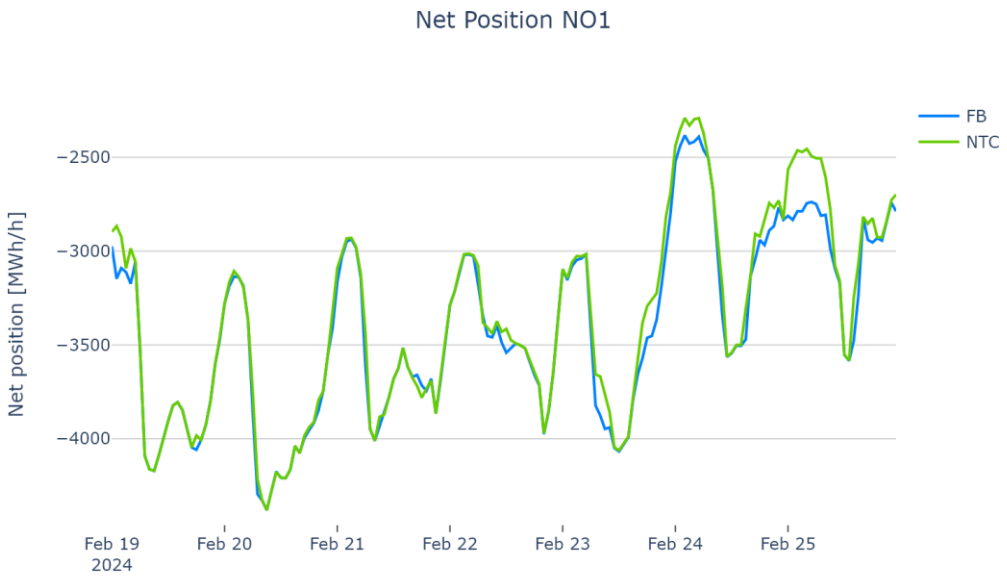

Total Net Position FI
Net position [MWh/h]
2000
1000
0
−1000
−2000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC

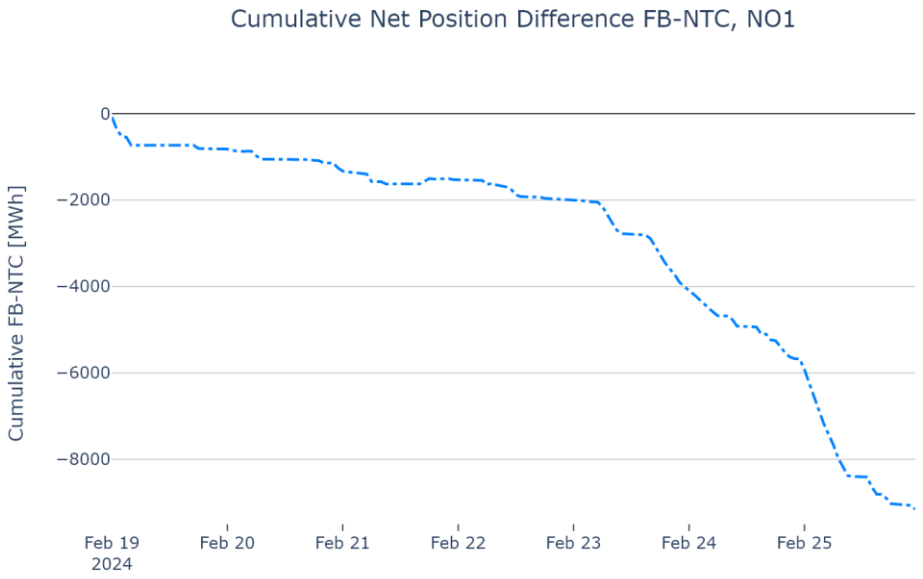

Cumulative Net Position Difference FB-NTC, FI
Cumulative FB-NTC [MWh]
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

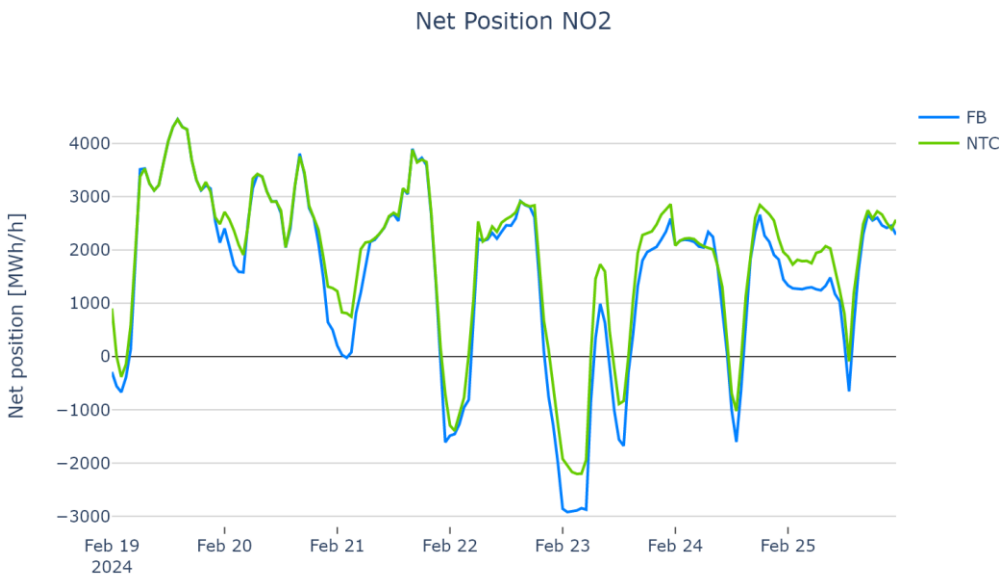
Norway

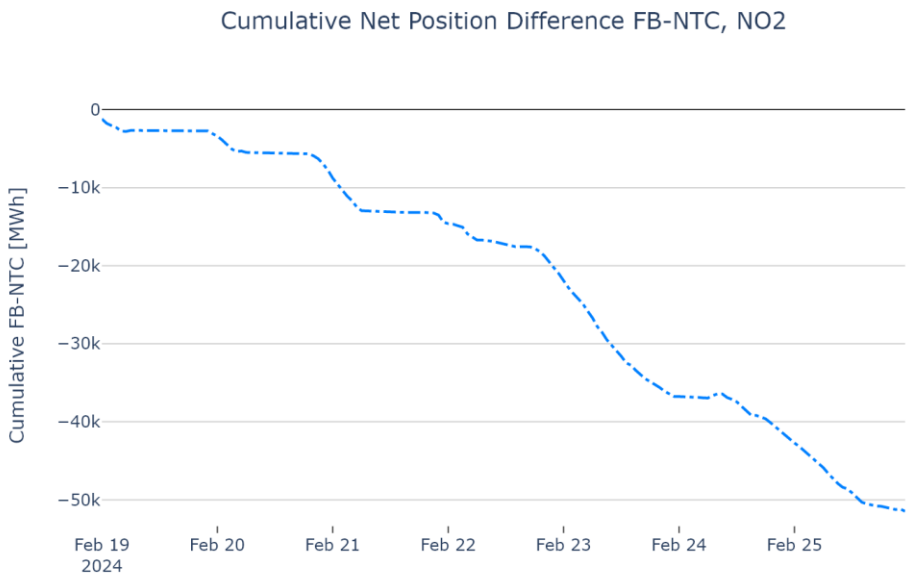

Total Net Position NO
FB
NTC
Net position [MWh/h]
4000
2000
0
−2000
−4000
−6000
−8000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

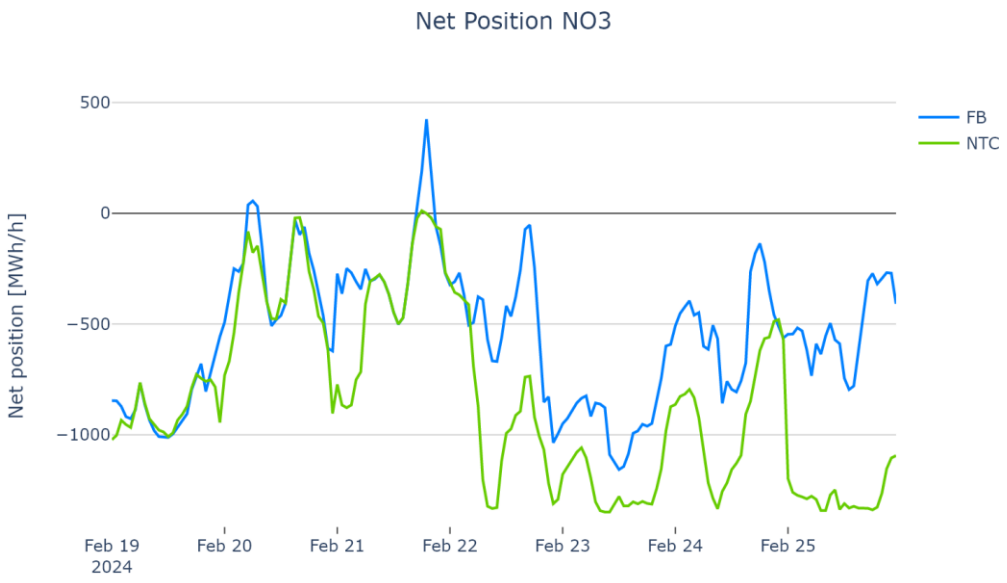

Cumulative Net Position Difference FB-NTC, NO
Cumulative FB-NTC [MWh]
0
−10k
−20k
−30k
−40k
−50k
−60k
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

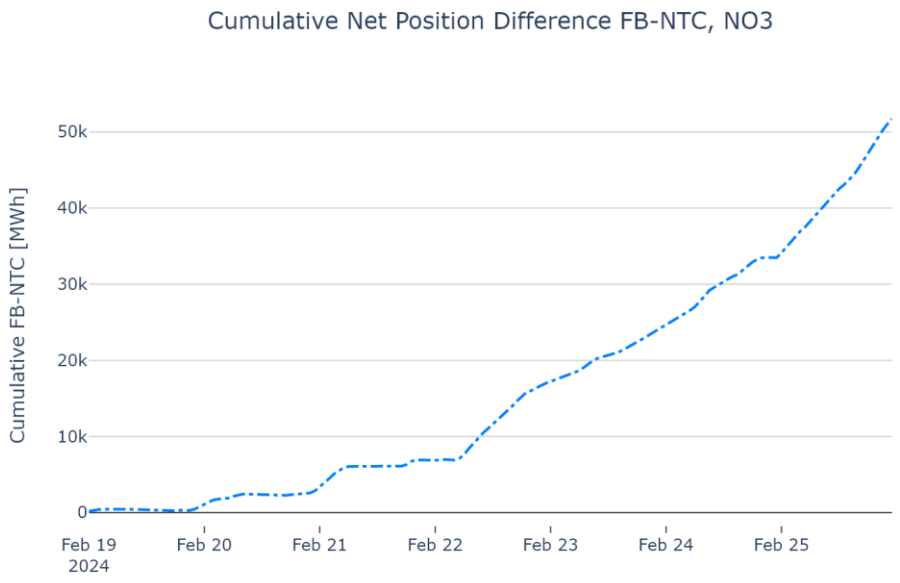

Net Position NO1
FB
NTC
Net position [MWh/h]
−2500
−3000
−3500
−4000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

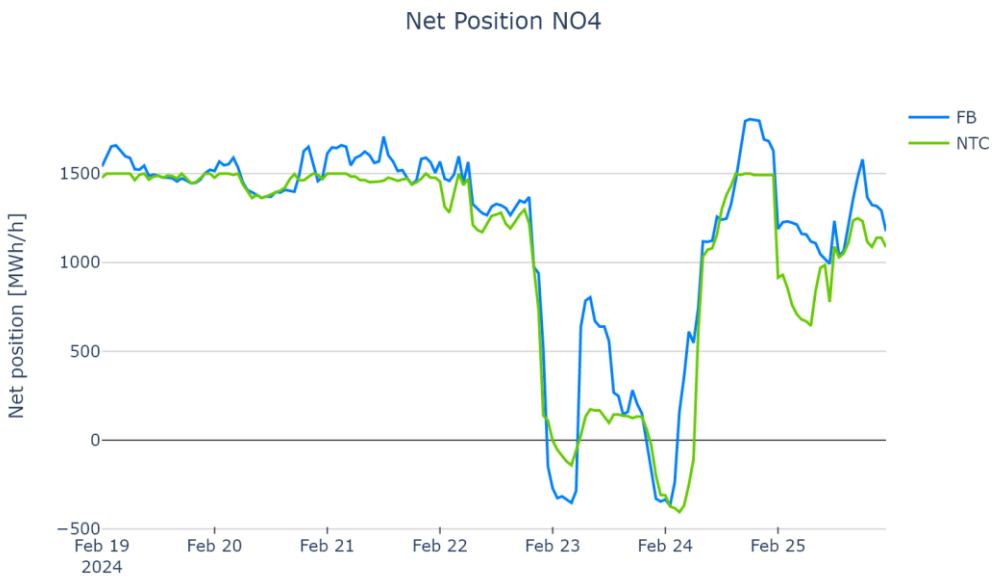

Cumulative Net Position Difference FB-NTC, NO1
Cumulative FB-NTC [MWh]
0
−2000
−4000
−6000
−8000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

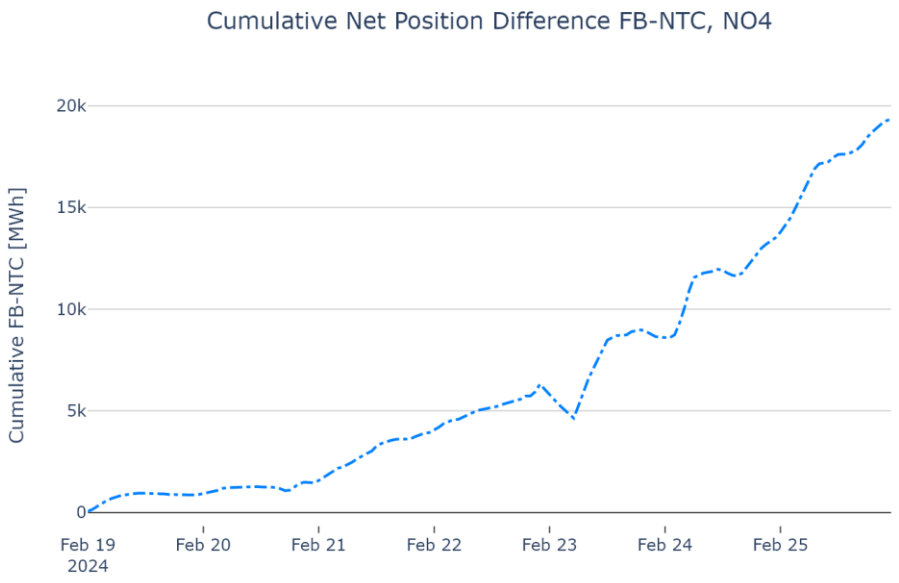

Net Position NO2
FB
NTC
Net position [MWh/h]
4000
3000
2000
1000
0
−1000
−2000
−3000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

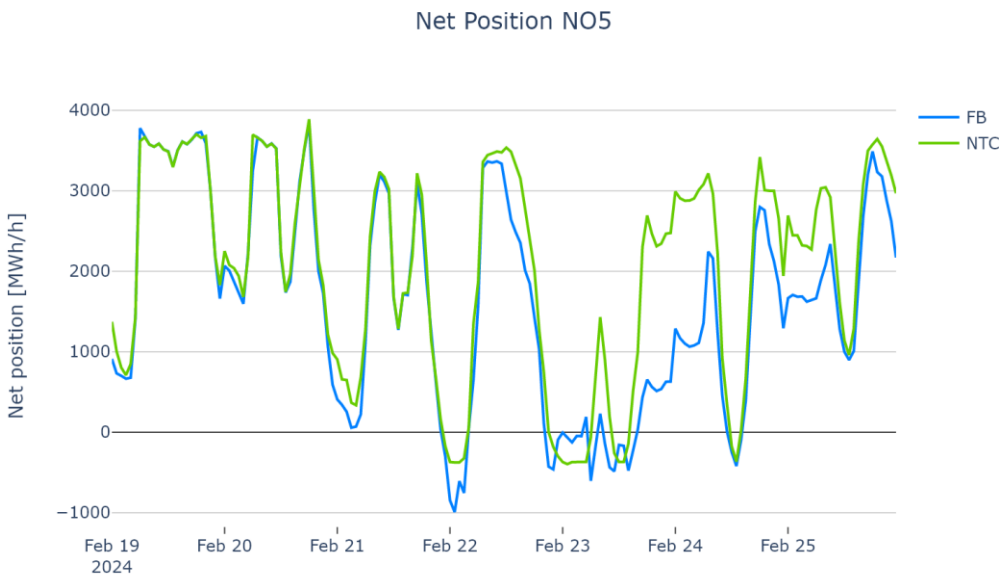

Cumulative Net Position Difference FB-NTC, NO2
Cumulative FB-NTC [MWh]
0
−10k
−20k
−30k
−40k
−50k
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

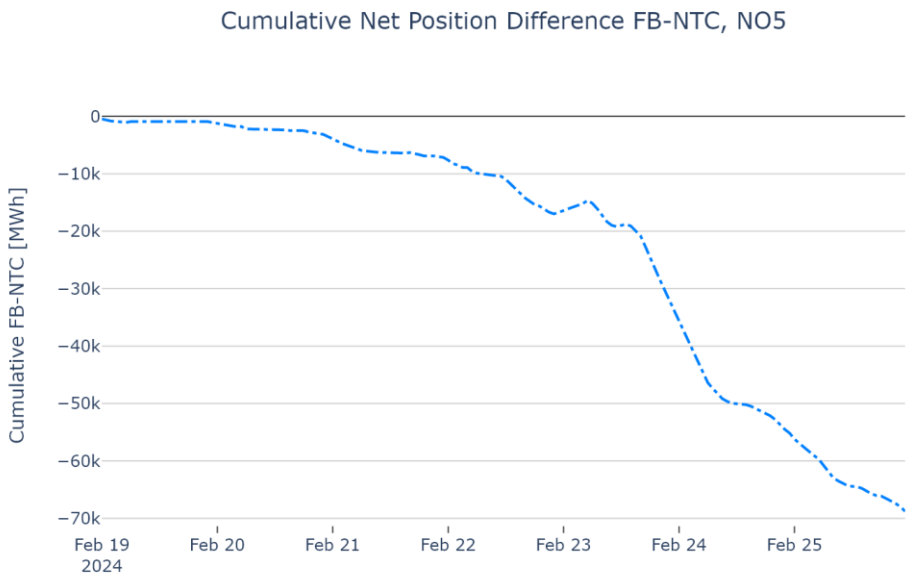

Net Position NO3
500
0
−500
−1000
Net position [MWh/h]
FB
NTC
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

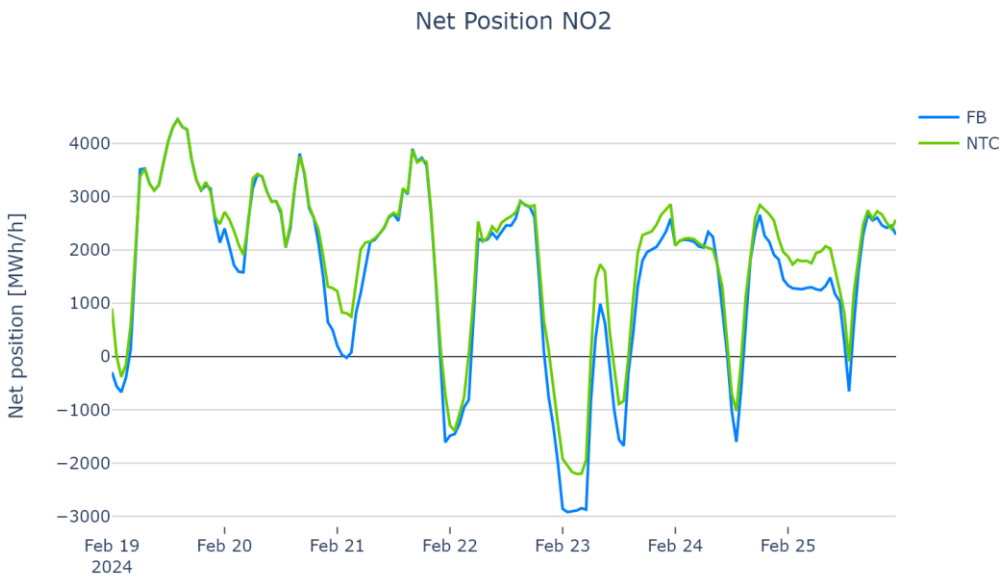

Cumulative Net Position Difference FB-NTC, NO3
50k
40k
30k
20k
10k
0
Cumulative FB-NTC [MWh]
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

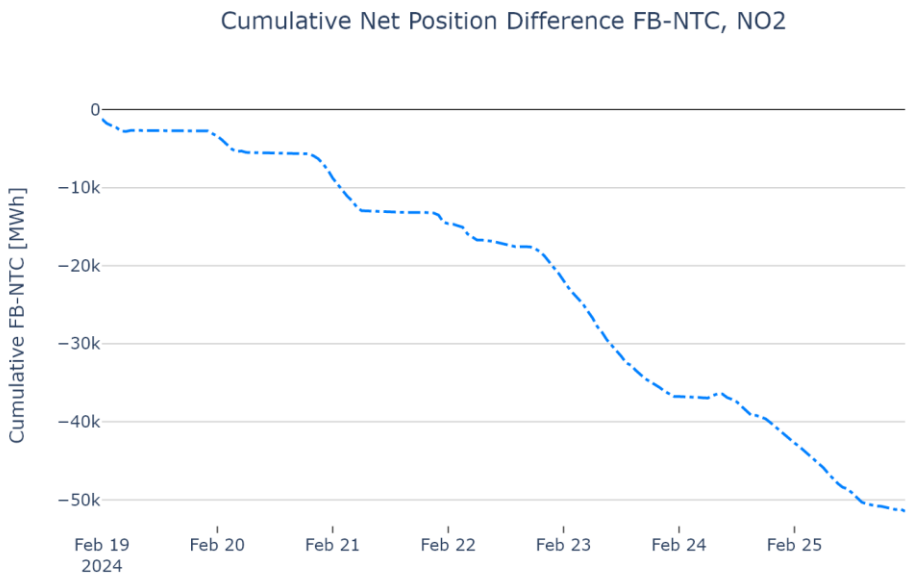

Net Position NO4
FB
NTC
Net position [MWh/h]
1500
1000
500
0
−500
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

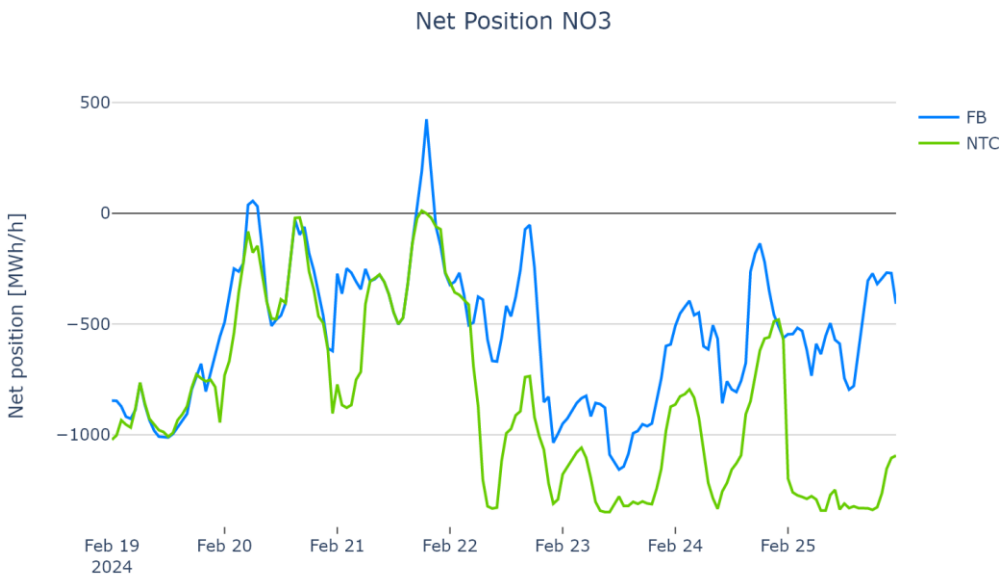

Cumulative Net Position Difference FB-NTC, NO4
Cumulative FB-NTC [MWh]
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

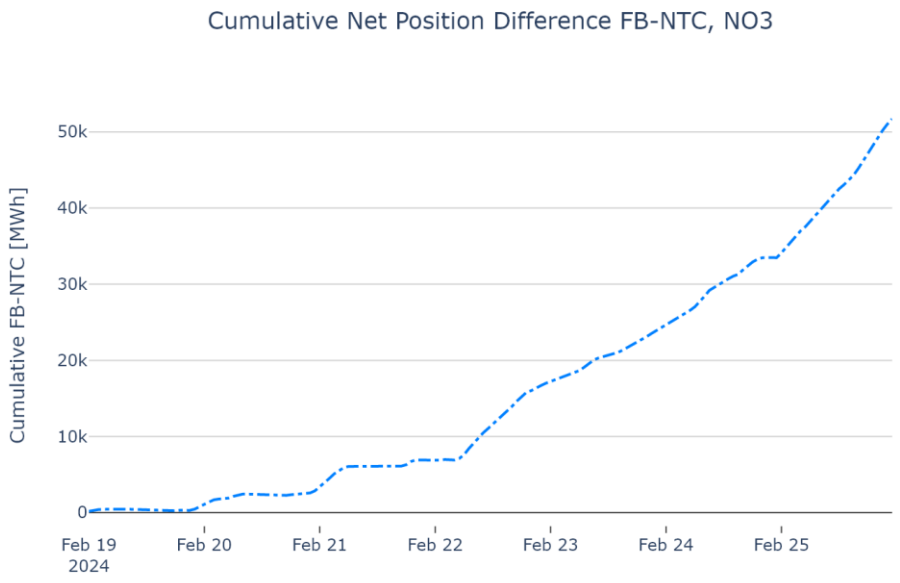

Net Position NO5
Net position [MWh/h]
4000
3000
2000
1000
0
−1000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC

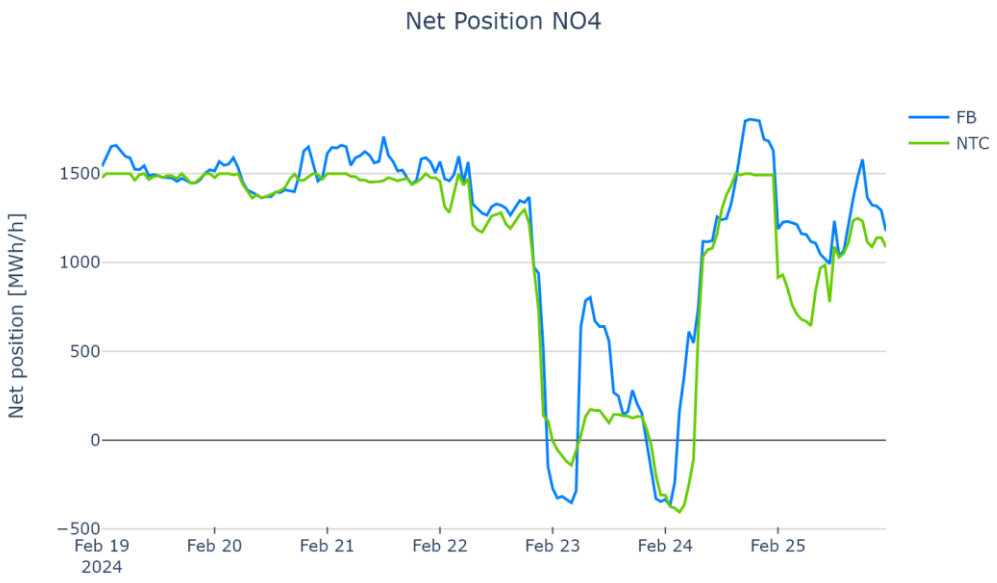

Cumulative Net Position Difference FB-NTC, NO5
Cumulative FB-NTC [MWh]
0
−10k
−20k
−30k
−40k
−50k
−60k
−70k
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

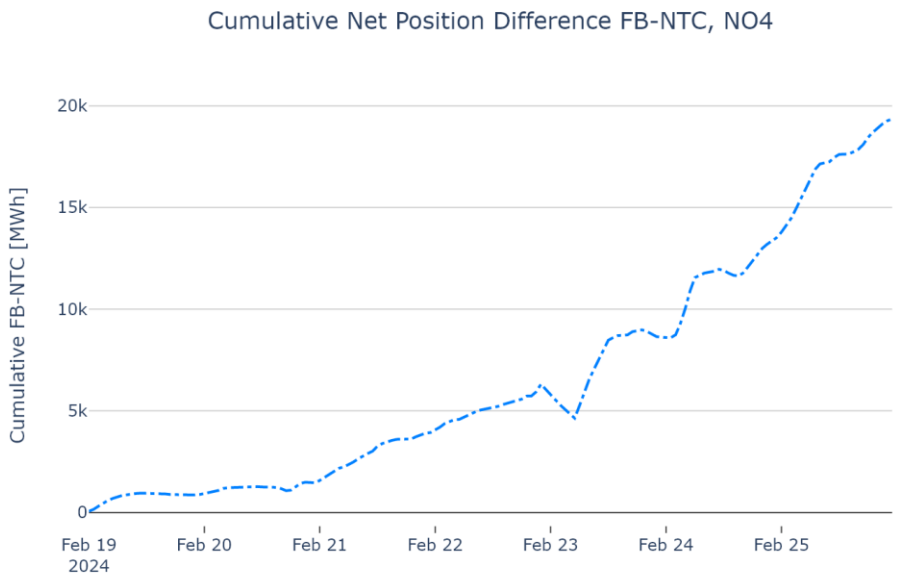

Net Position NO2
FB
NTC
Net position [MWh/h]
4000
3000
2000
1000
0
−1000
−2000
−3000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

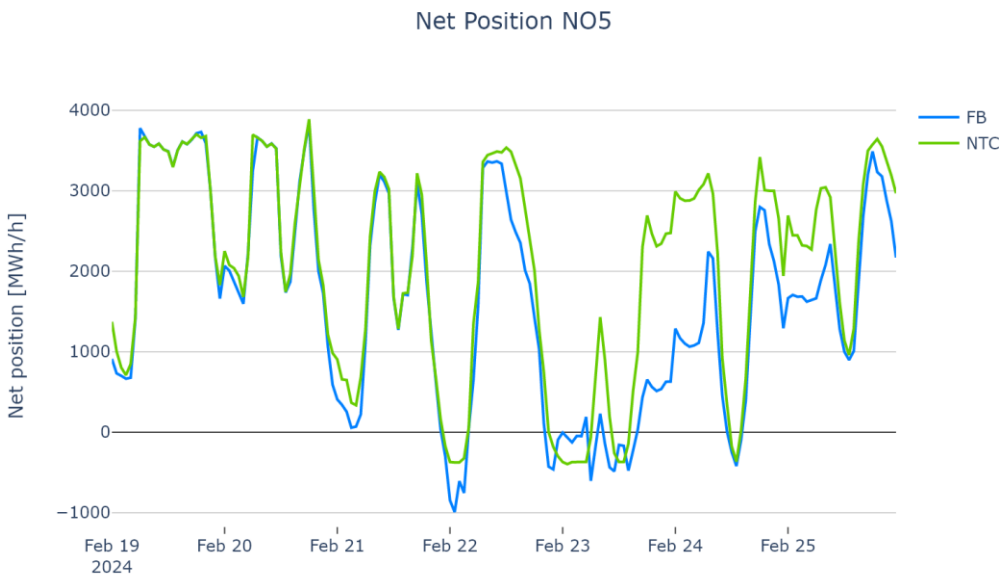

Cumulative Net Position Difference FB-NTC, NO2
Cumulative FB-NTC [MWh]
0
−10k
−20k
−30k
−40k
−50k
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

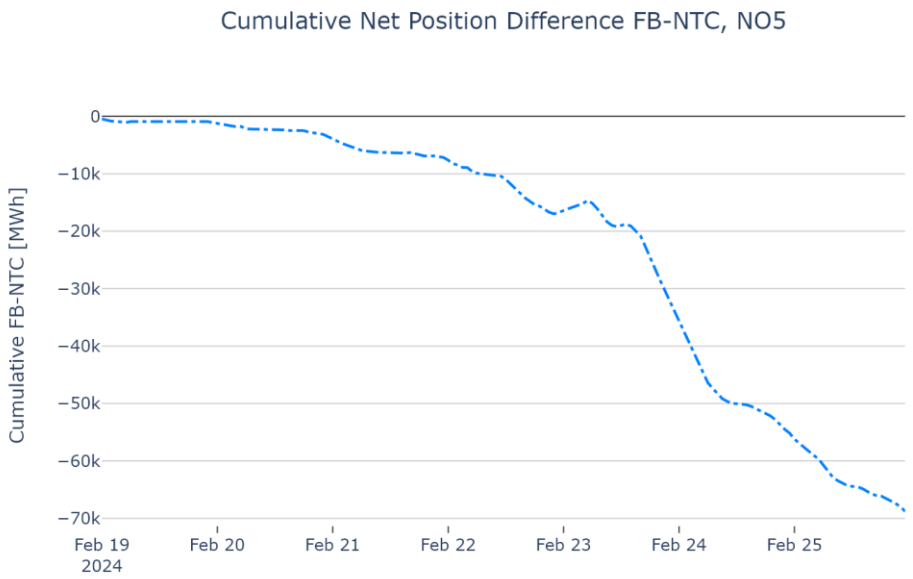

Net Position NO3
500
0
−500
−1000
Net position [MWh/h]
FB
NTC
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25


Cumulative Net Position Difference FB-NTC, NO3
50k
40k
30k
20k
10k
0
Cumulative FB-NTC [MWh]
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

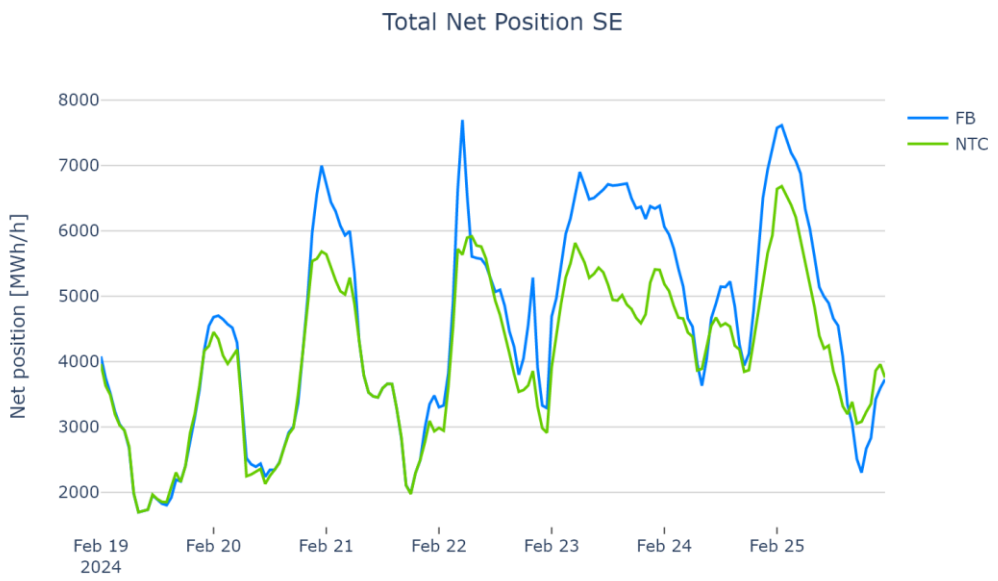

Net Position NO4
FB
NTC
Net position [MWh/h]
1500
1000
500
0
−500
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

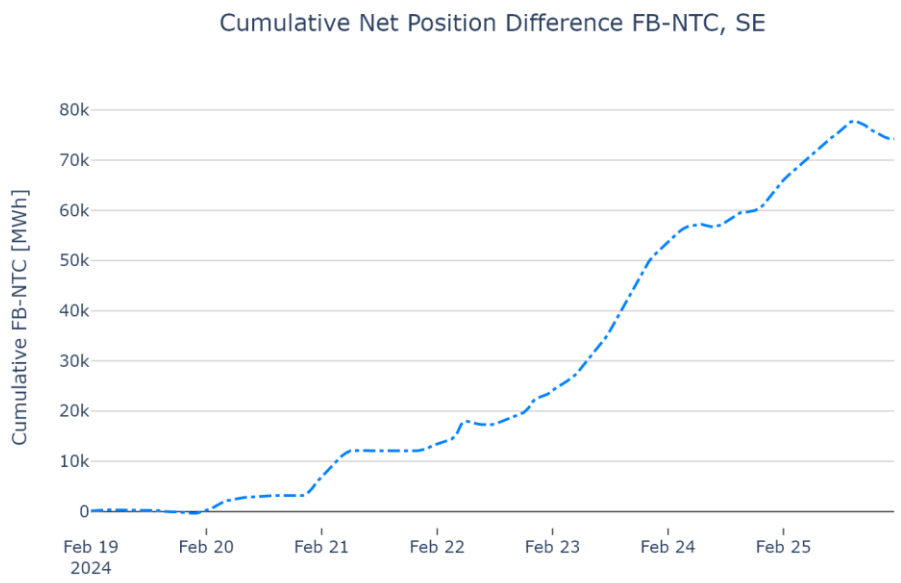

Cumulative Net Position Difference FB-NTC, NO4
Cumulative FB-NTC [MWh]
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

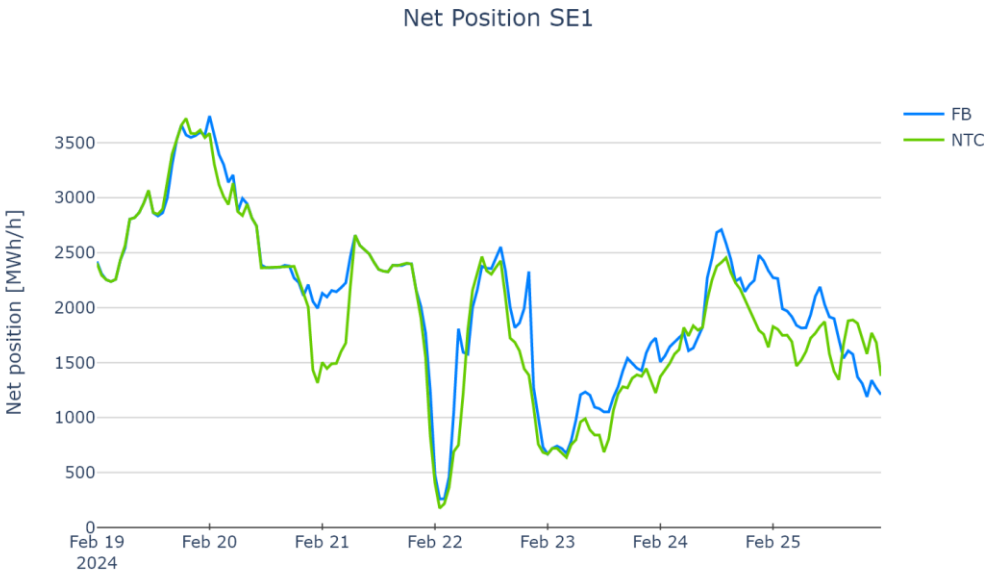

Net Position NO5
Net position [MWh/h]
4000
3000
2000
1000
0
−1000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC

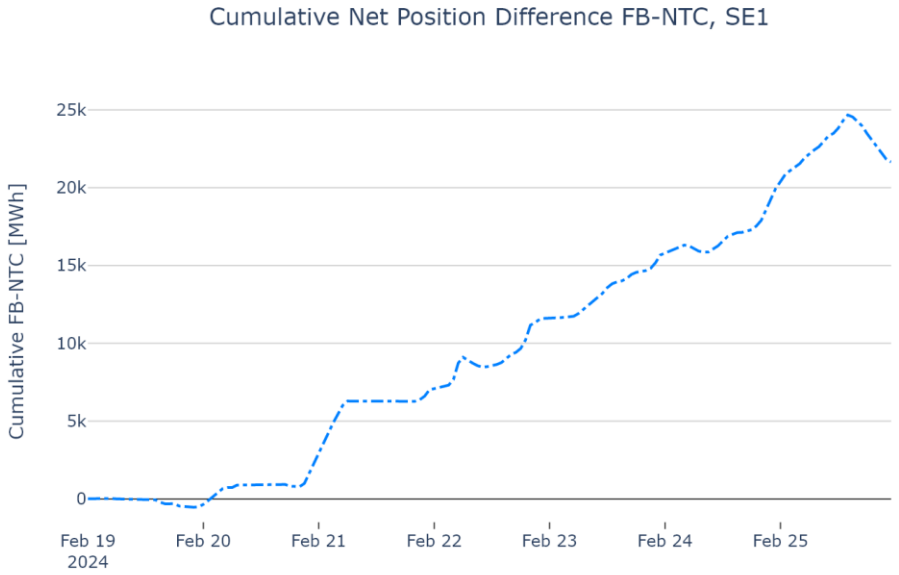

Cumulative Net Position Difference FB-NTC, NO5
Cumulative FB-NTC [MWh]
0
−10k
−20k
−30k
−40k
−50k
−60k
−70k
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

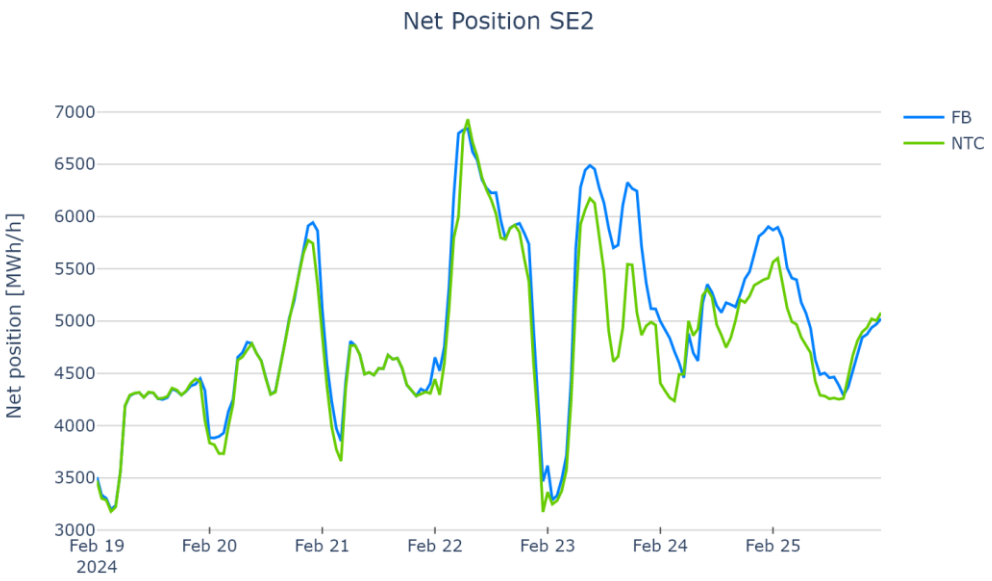
Sweden

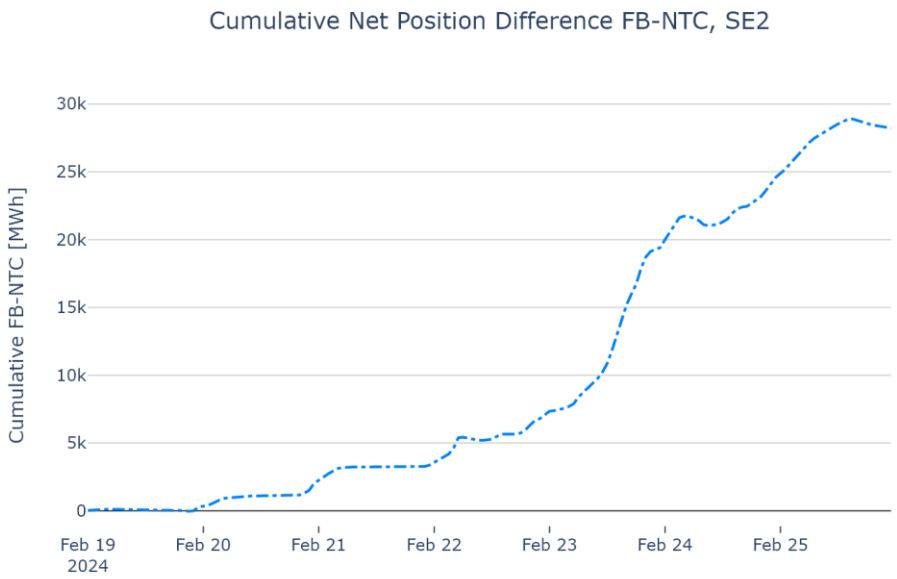

Total Net Position SE
Net position [MWh/h]
8000
7000
6000
5000
4000
3000
2000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC

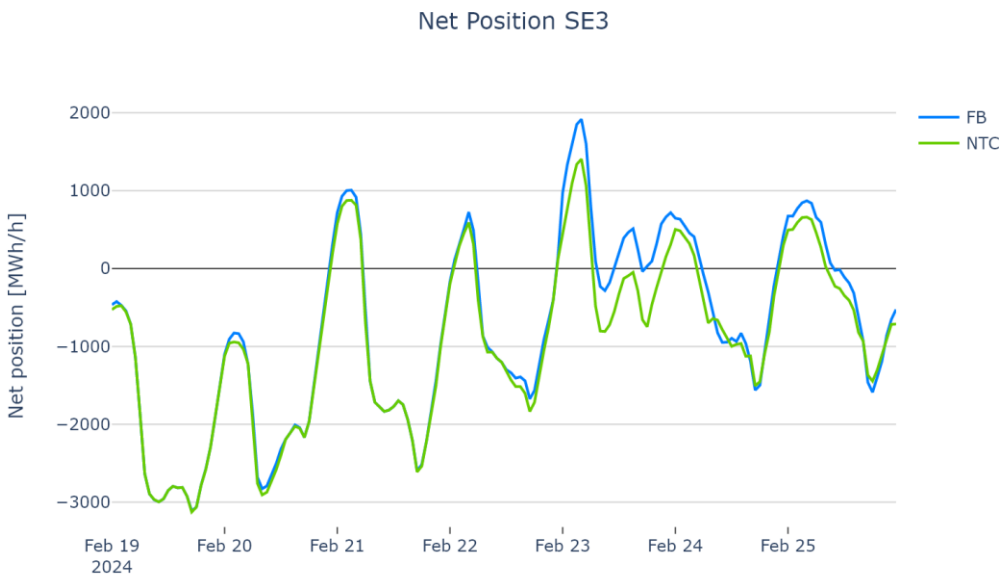

Cumulative Net Position Difference FB-NTC, SE
Cumulative FB-NTC [MWh]
80k
70k
60k
50k
40k
30k
20k
10k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

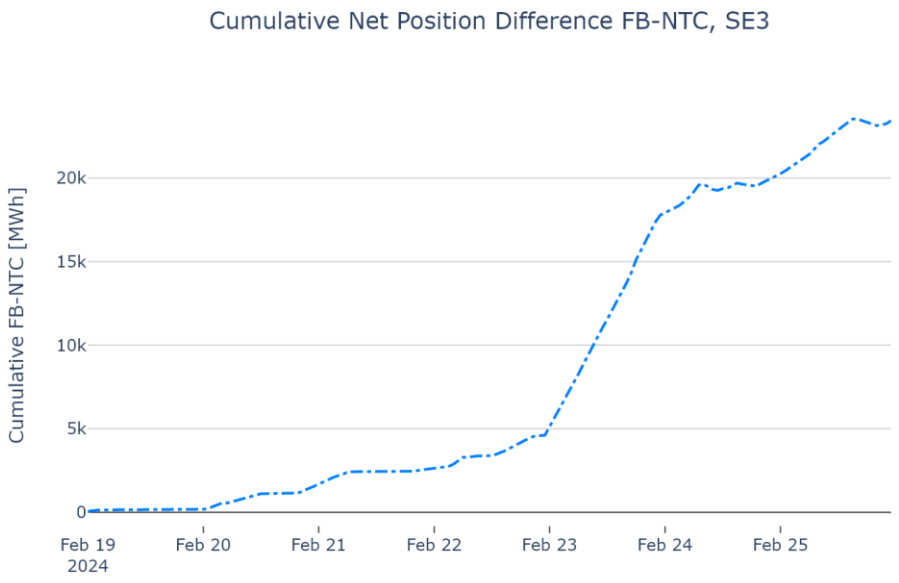

Net Position SE1
FB
NTC
Net position [MWh/h]
3500
3000
2500
2000
1500
1000
500
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

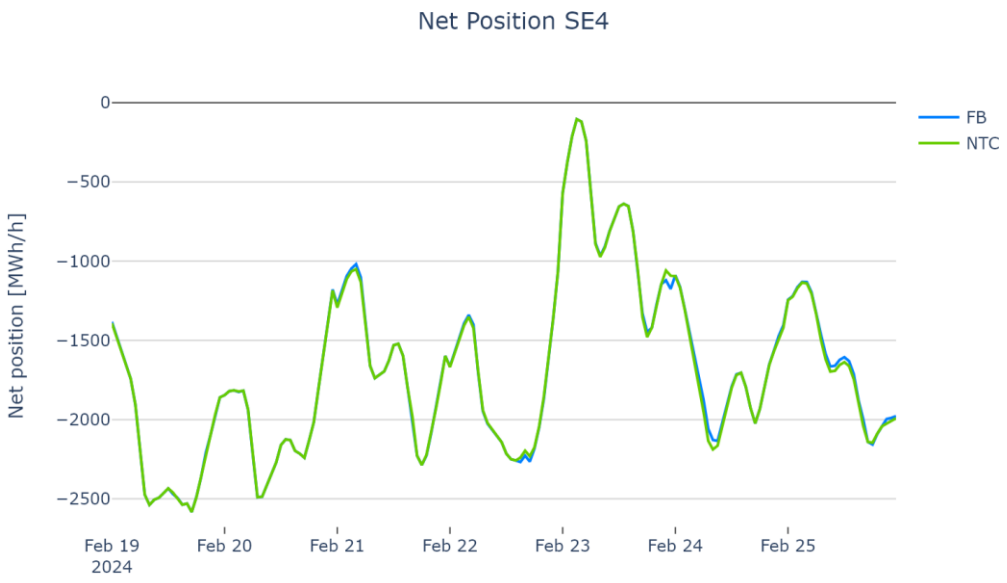

Cumulative Net Position Difference FB-NTC, SE1
Cumulative FB-NTC [MWh]
25k
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

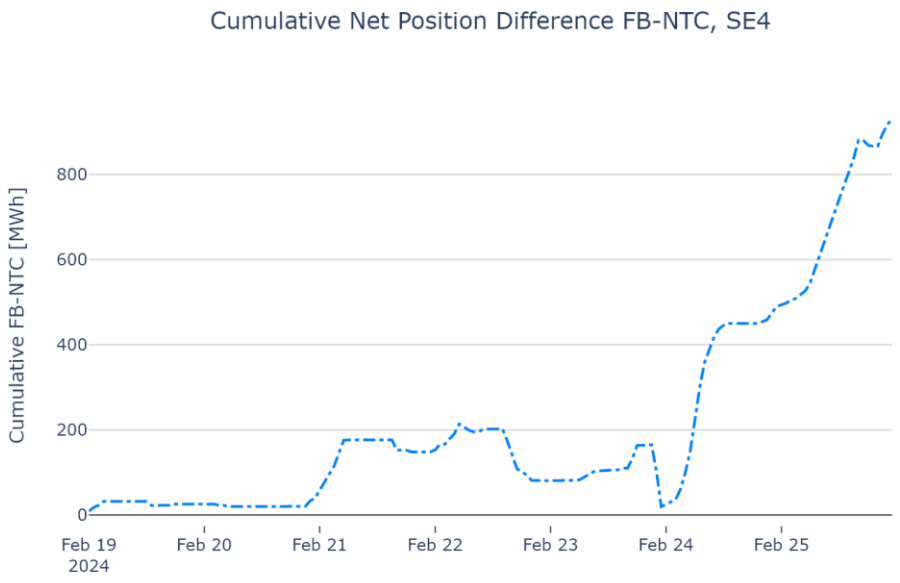

Net Position SE2
Net position [MWh/h]
7000
6500
6000
5500
5000
4500
4000
3500
3000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC

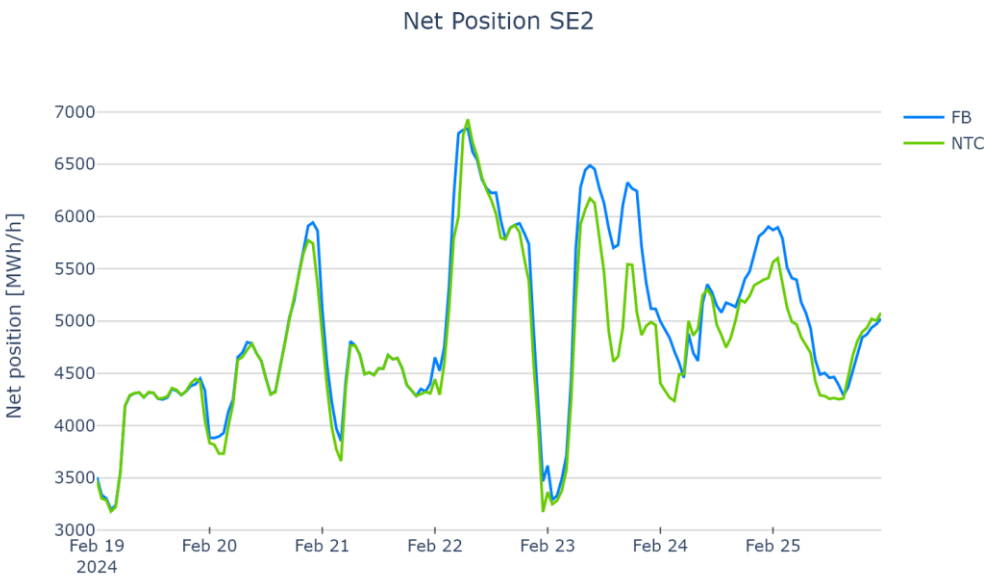

Cumulative Net Position Difference FB-NTC, SE2
Cumulative FB-NTC [MWh]
30k
25k
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

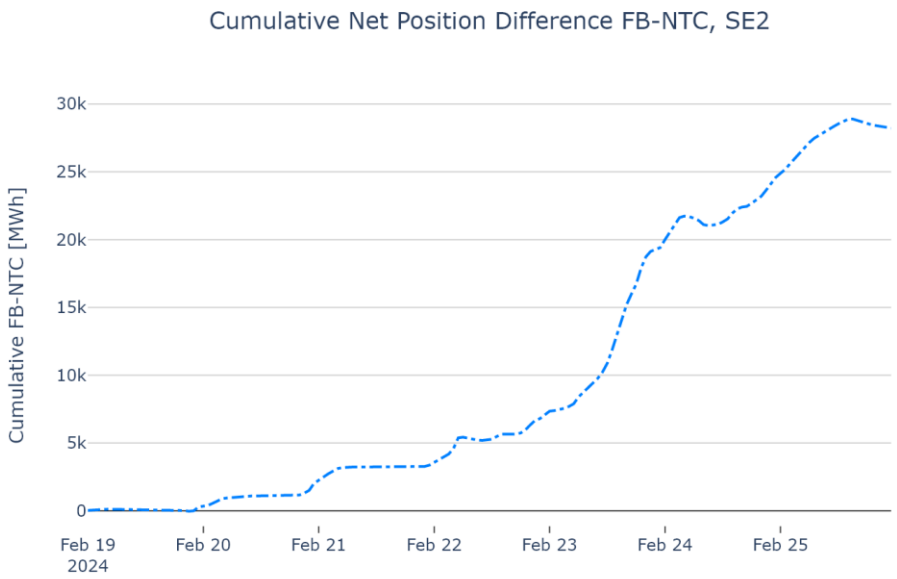

Net Position SE3
FB
NTC
Net position [MWh/h]
2000
1000
0
−1000
−2000
−3000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

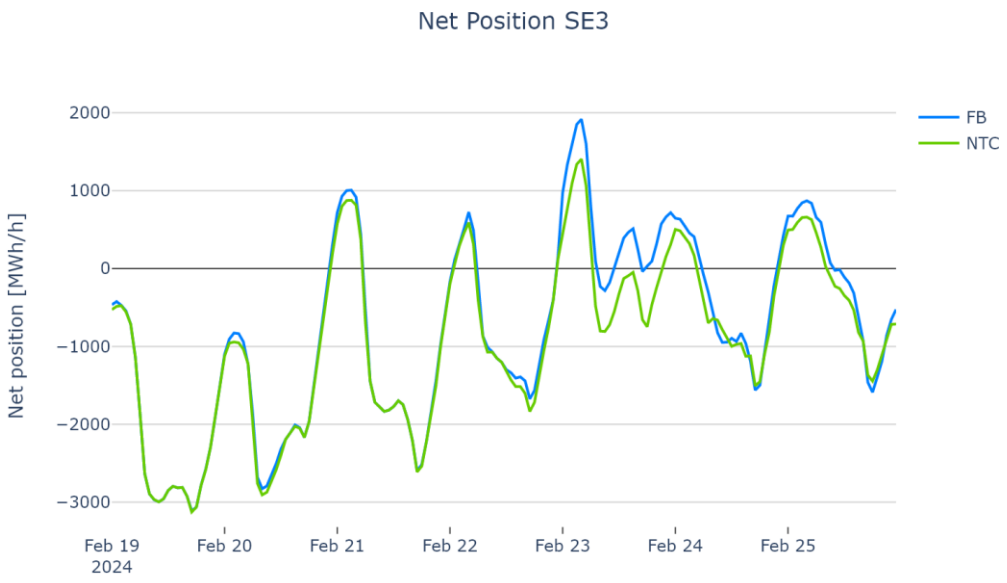

Cumulative Net Position Difference FB-NTC, SE3
Cumulative FB-NTC [MWh]
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

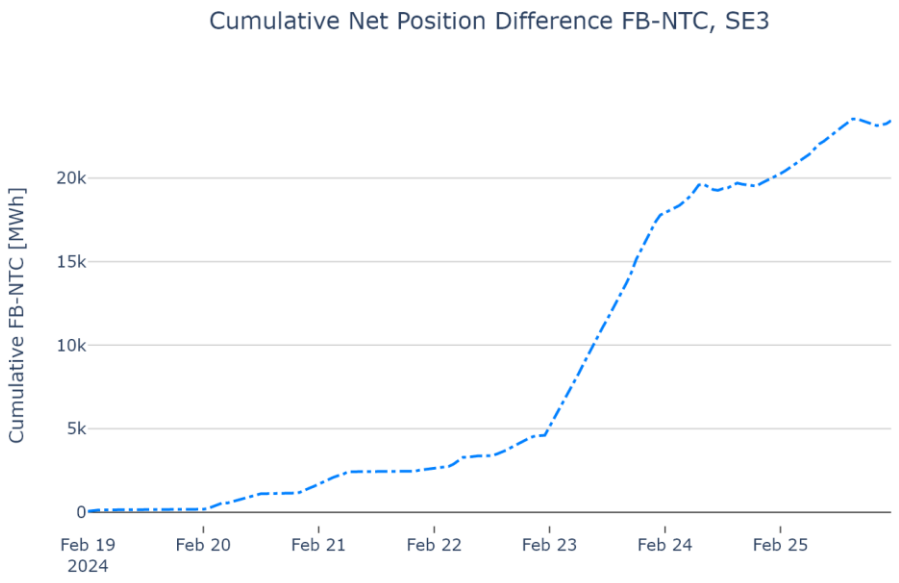

Net Position SE4
Net position [MWh/h]
0
−500
−1000
−1500
−2000
−2500
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC

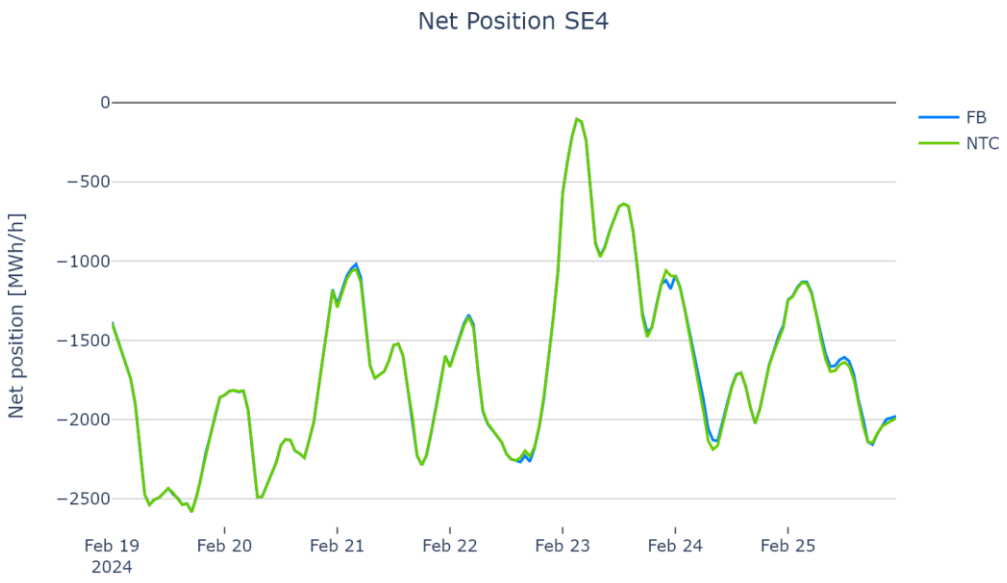

Cumulative Net Position Difference FB-NTC, SE4
Cumulative FB-NTC [MWh]
800
600
400
200
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

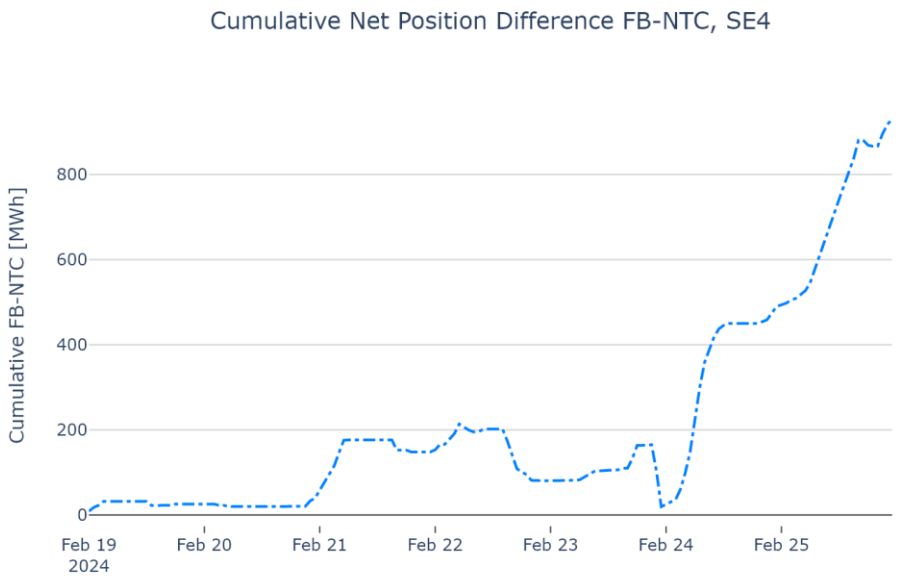

Net Position SE2
Net position [MWh/h]
7000
6500
6000
5500
5000
4500
4000
3500
3000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC


Cumulative Net Position Difference FB-NTC, SE2
Cumulative FB-NTC [MWh]
30k
25k
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25


Net Position SE3
FB
NTC
Net position [MWh/h]
2000
1000
0
−1000
−2000
−3000
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

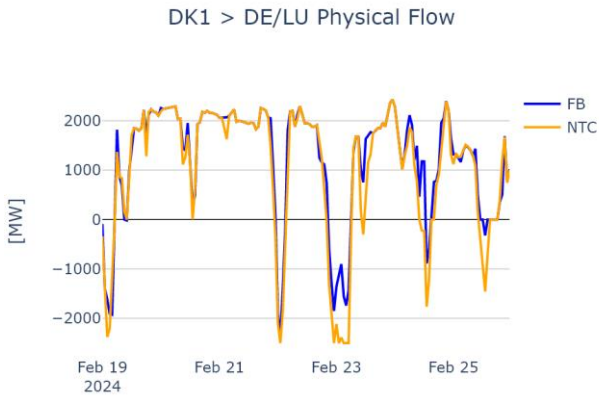

Cumulative Net Position Difference FB-NTC, SE3
Cumulative FB-NTC [MWh]
20k
15k
10k
5k
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

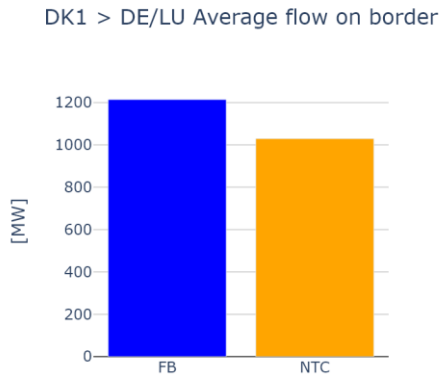

Net Position SE4
Net position [MWh/h]
0
−500
−1000
−1500
−2000
−2500
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25
FB
NTC

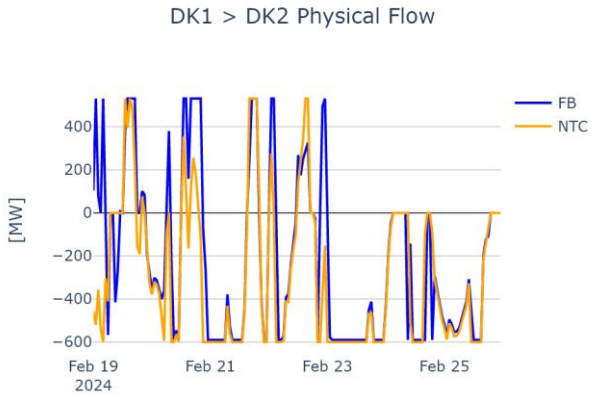

Cumulative Net Position Difference FB-NTC, SE4
Cumulative FB-NTC [MWh]
800
600
400
200
0
Feb 19
2024
Feb 20
Feb 21
Feb 22
Feb 23
Feb 24
Feb 25

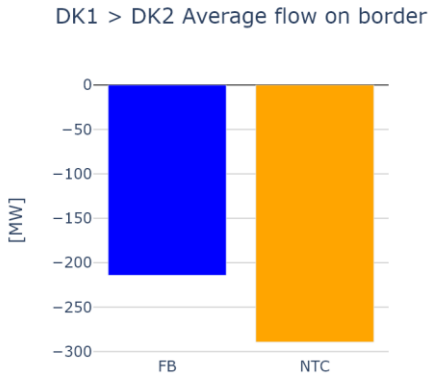
Border flow

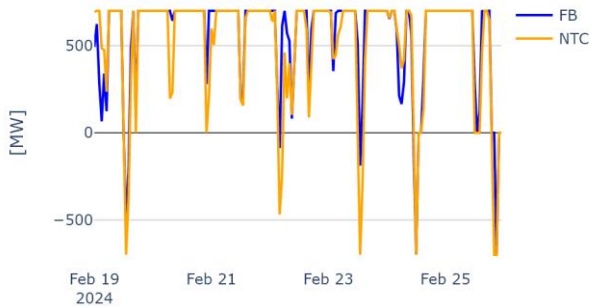
The flows present here, both in FB and NTC, represent the physical flow on the lines and are calculated as the product of the NP and the PTDF matrix. When comparing the NTC-results in this report with those present in the DA market there will be a difference as the DA flows are calculated without the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

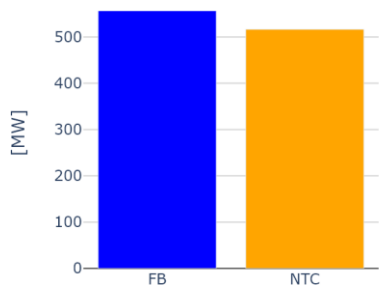


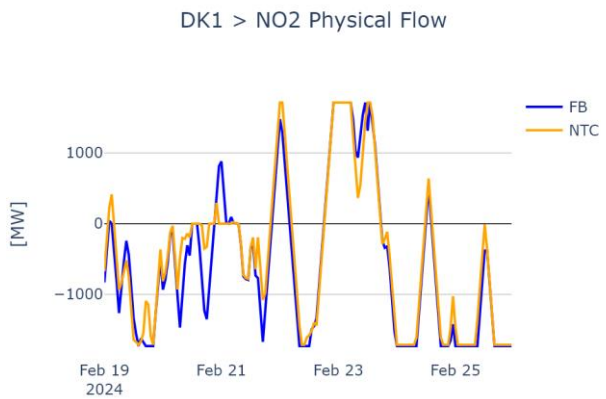


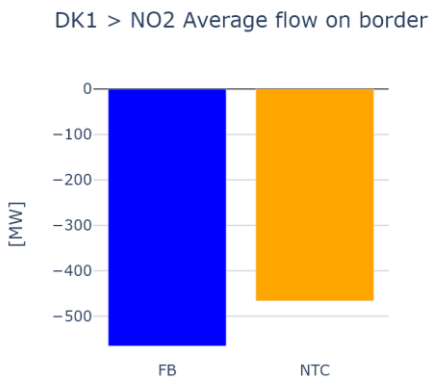


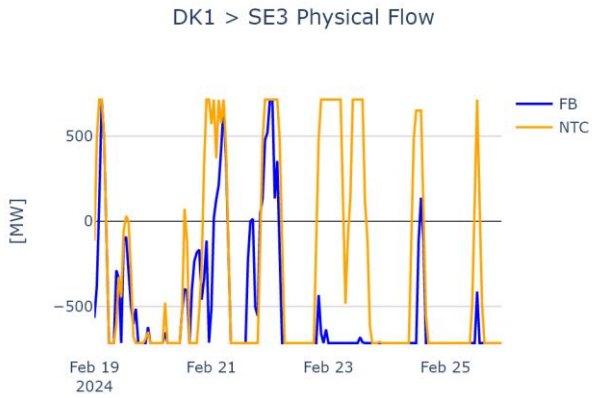


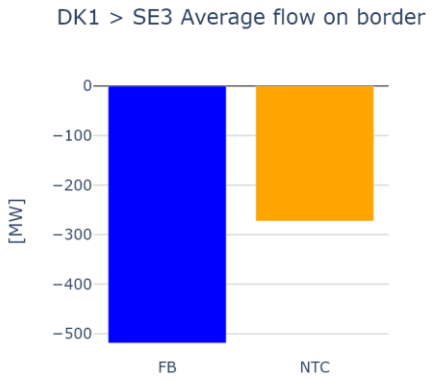

DK1 > NL Physical Flow
FB
NTC
[MW]
500
0
−500
Feb 19
2024
Feb 21
Feb 23
Feb 25

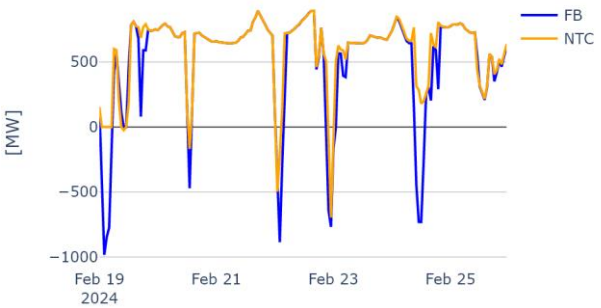

DK1 > NL Average flow on border
[MW]
500
400
300
200
100
0
FB
NTC

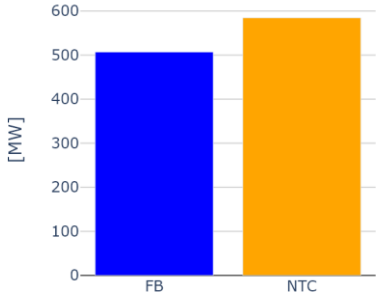

DK1 > NO2 Physical Flow
FB
NTC
[MW]
1000
0
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

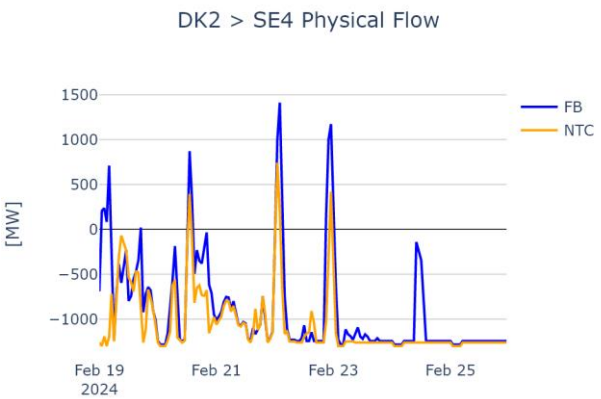

DK1 > NO2 Average flow on border
[MW]
0
−100
−200
−300
−400
−500
FB
NTC

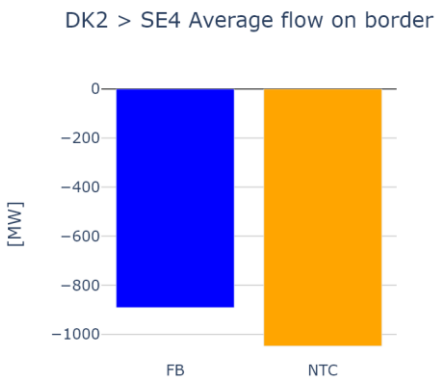

DK1 > SE3 Physical Flow
FB
NTC
[MW]
500
0
−500
Feb 19
2024
Feb 21
Feb 23
Feb 25

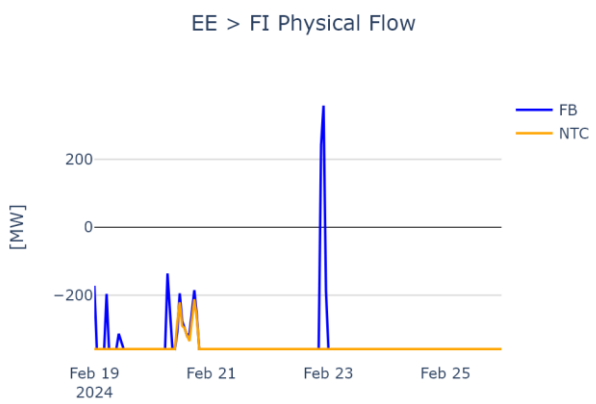

DK1 > SE3 Average flow on border
[MW]
0
−100
−200
−300
−400
−500
FB
NTC

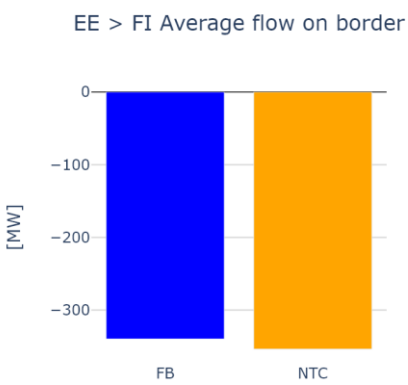

DK2 > DE/LU Physical Flow
FB
NTC
[MW]
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

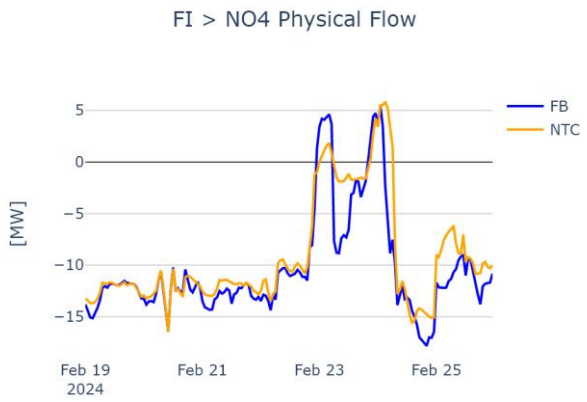

DK2 > DE/LU Average flow on border
[MW]
600
500
400
300
200
100
0
FB
NTC

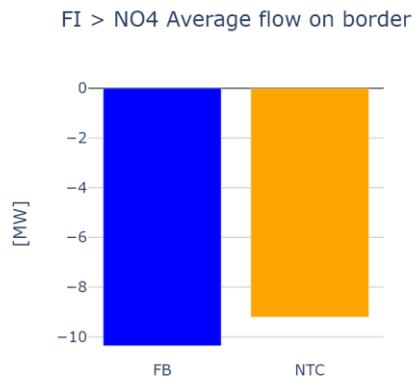

DK2 > SE4 Physical Flow
FB
NTC
[MW]
1500
1000
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

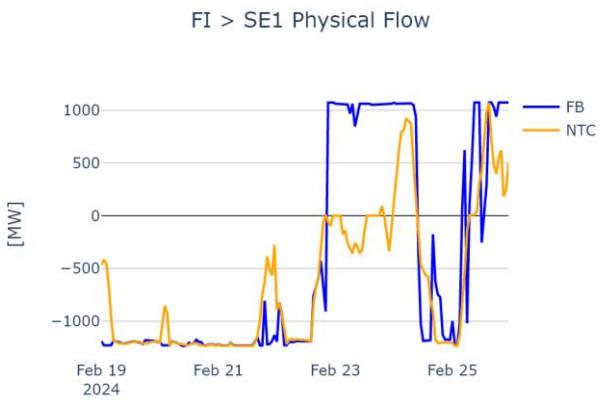

DK2 > SE4 Average flow on border
[MW]
0
−200
−400
−600
−800
−1000
FB
NTC

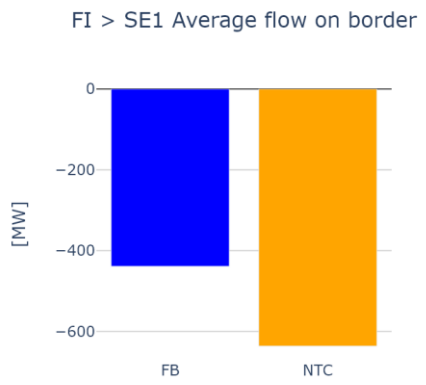

EE > FI Physical Flow
FB
NTC
[MW]
200
0
−200
Feb 19
2024
Feb 21
Feb 23
Feb 25

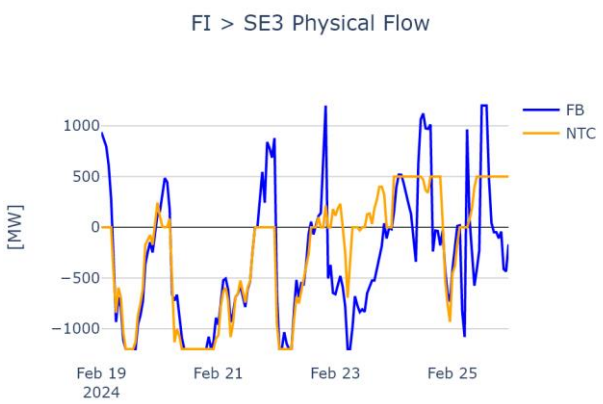

EE > FI Average flow on border
[MW]
0
−100
−200
−300
FB
NTC

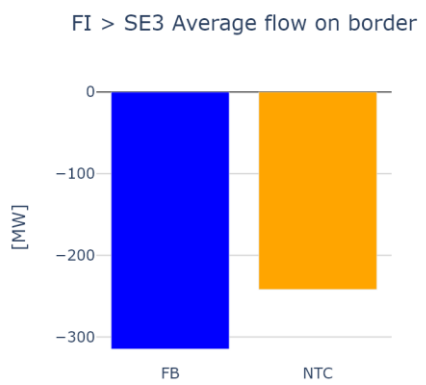

FI > NO4 Physical Flow
FB
NTC
[MW]
5
0
−5
−10
−15
Feb 19
2024
Feb 21
Feb 23
Feb 25

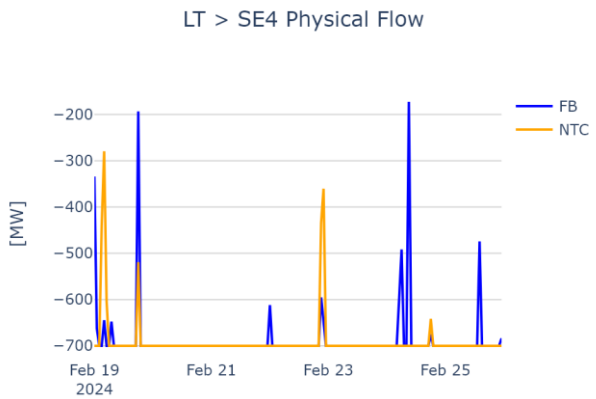

FI > NO4 Average flow on border
[MW]
0
−2
−4
−6
−8
−10
FB
NTC

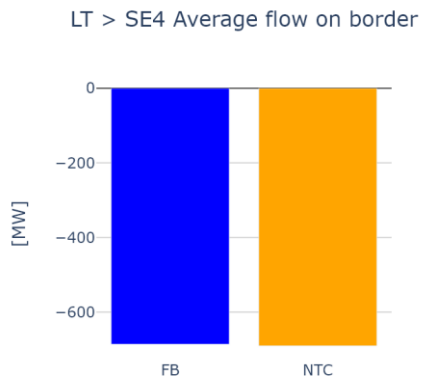

FI > SE1 Physical Flow
FB
NTC
[MW]
1000
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

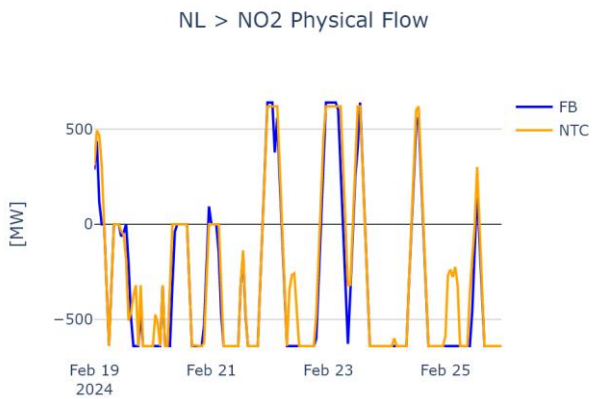

FI > SE1 Average flow on border
[MW]
0
−200
−400
−600
FB
NTC

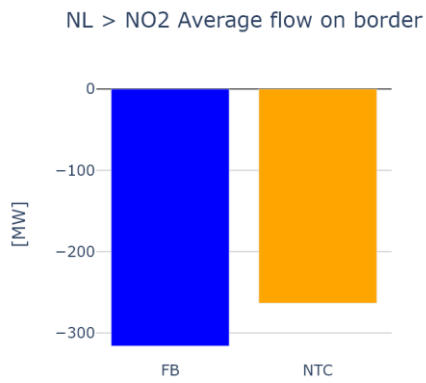

FI > SE3 Physical Flow
FB
NTC
[MW]
1000
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

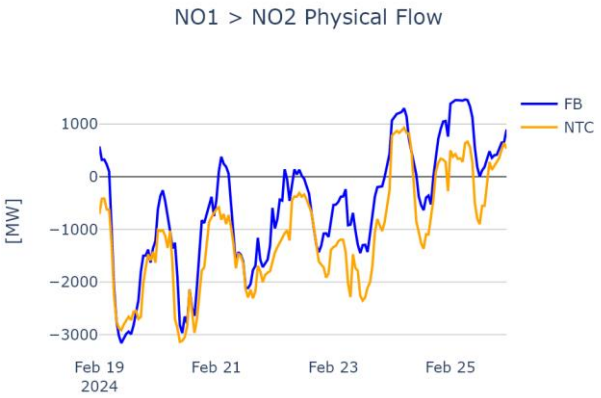

FI > SE3 Average flow on border
[MW]
0
−100
−200
−300
FB
NTC

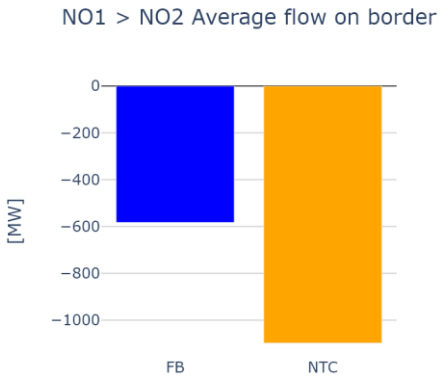

LT > SE4 Physical Flow
FB
NTC
[MW]
−200
−300
−400
−500
−600
−700
Feb 19
2024
Feb 21
Feb 23
Feb 25


LT > SE4 Average flow on border
[MW]
0
−200
−400
−600
FB
NTC


NL > NO2 Physical Flow
FB
NTC
[MW]
500
0
−500
Feb 19
2024
Feb 21
Feb 23
Feb 25


NL > NO2 Average flow on border
[MW]
0
−100
−200
−300
FB
NTC


NO1 > NO2 Physical Flow
FB
NTC
[MW]
1000
0
−1000
−2000
−3000
Feb 19
2024
Feb 21
Feb 23
Feb 25


NO1 > NO2 Average flow on border
[MW]
0
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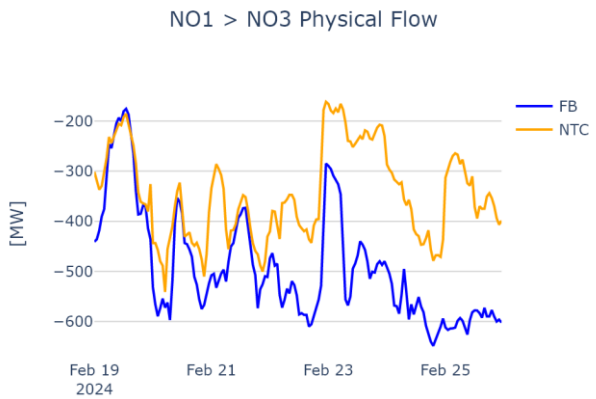
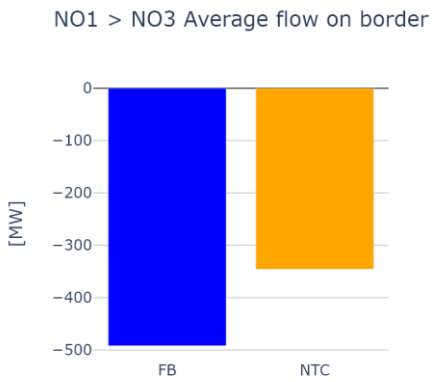
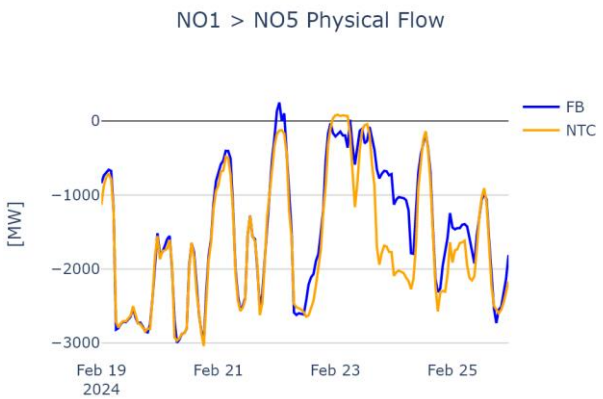
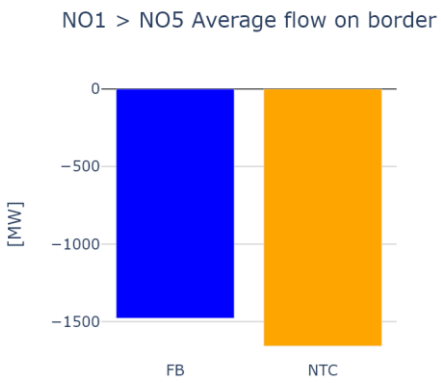
−800
−1000
FB
NTC


NO1 > NO3 Physical Flow
FB
NTC
[MW]
−200
−300
−400
−500
−600
Feb 19
2024
Feb 21
Feb 23
Feb 25


NO1 > NO3 Average flow on border
[MW]
0
−100
−200
−300
−400
−500
FB
NTC


NO1 > NO5 Physical Flow
FB
NTC
[MW]
0
−1000
−2000
−3000
Feb 19
2024
Feb 21
Feb 23
Feb 25


NO1 > NO5 Average flow on border
[MW]
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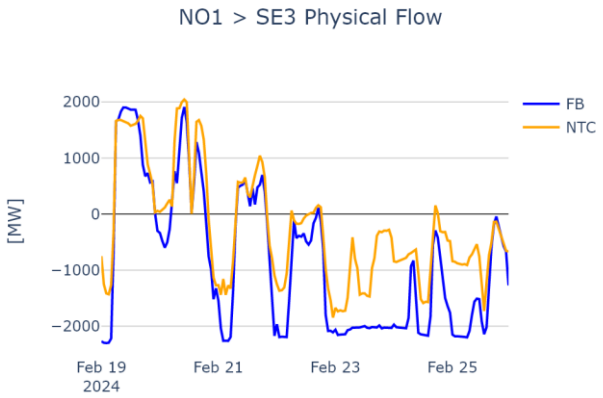
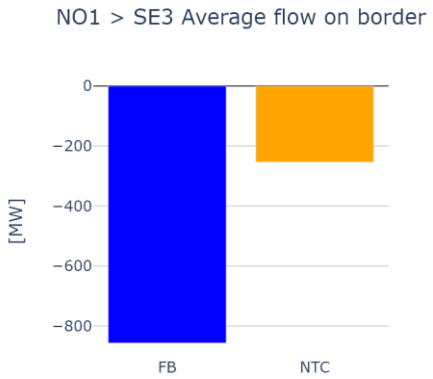
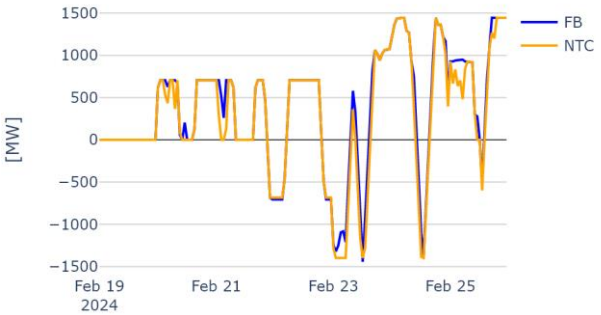
FB
NTC

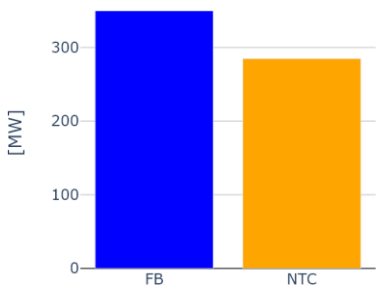

NO1 > SE3 Physical Flow
FB
NTC
[MW]
2000
1000
0
−1000
−2000
Feb 19
2024
Feb 21
Feb 23
Feb 25


NO1 > SE3 Average flow on border
[MW]
0
−200
−400
−600
−800
FB
NTC

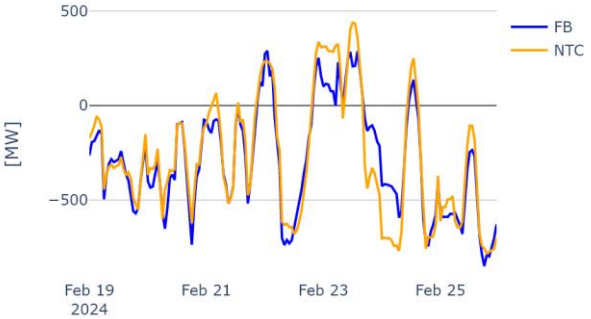
NO2 > DE/LU Physical Flow



NO2 > DE/LU Average flow on border

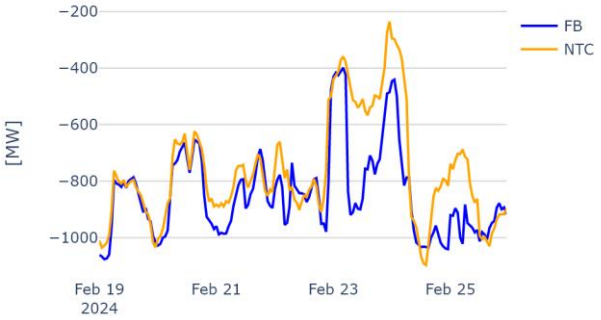


NO2 > NO5 Physical Flow

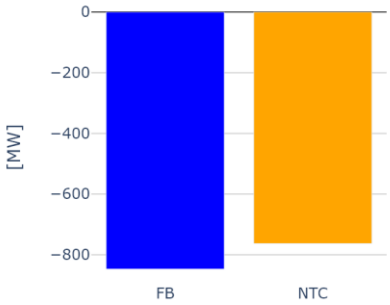


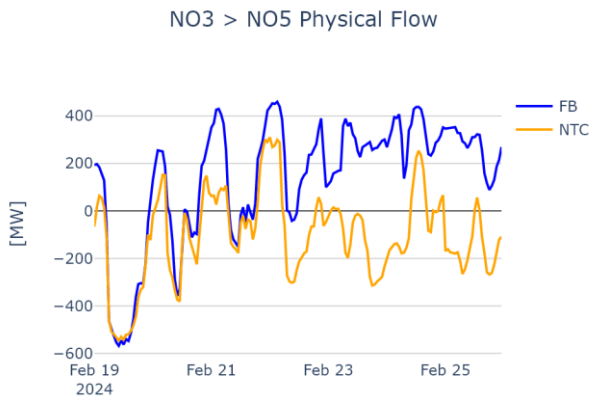
NO2 > NO5 Average flow on border

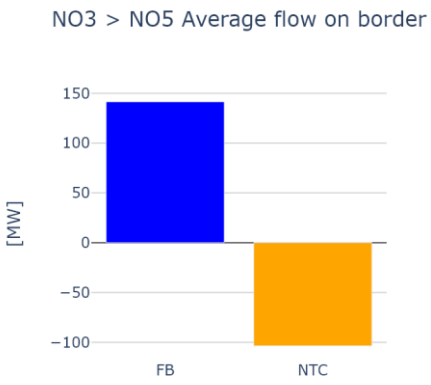
NO3 > NO4 Physical Flow

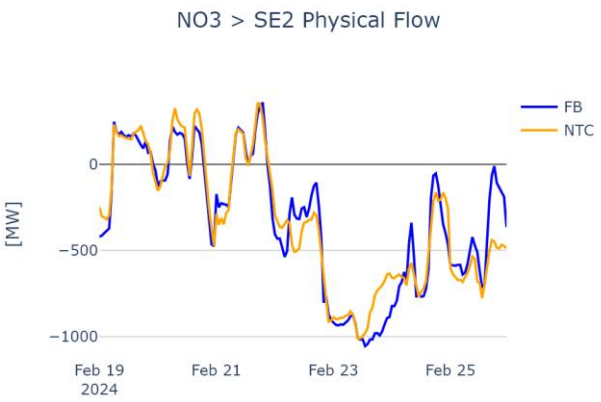


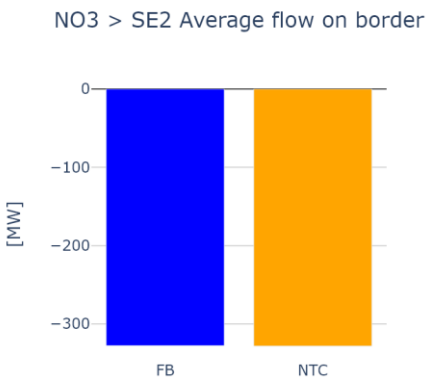
NO3 > NO4 Average flow on border

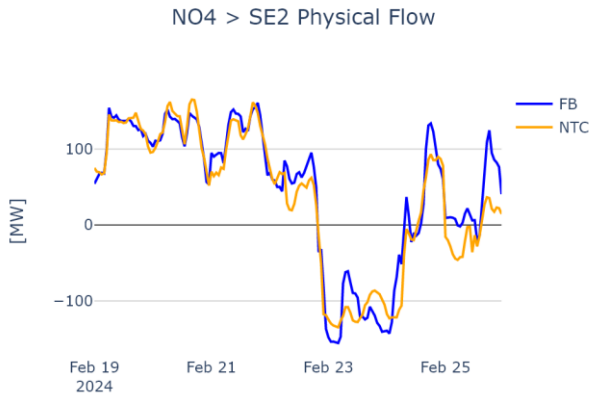


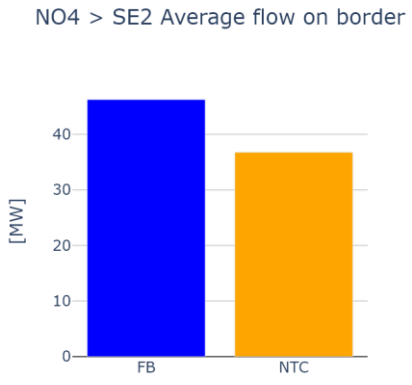

NO3 > NO5 Physical Flow
FB
NTC
[MW]
400
200
0
−200
−400
−600
Feb 19
2024
Feb 21
Feb 23
Feb 25

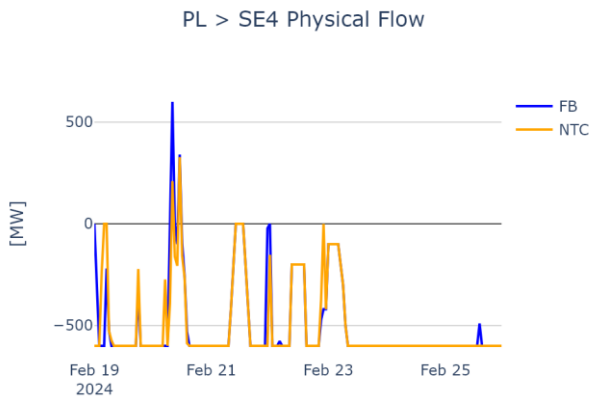

NO3 > NO5 Average flow on border
[MW]
150
100
50
0
−50
−100
FB
NTC

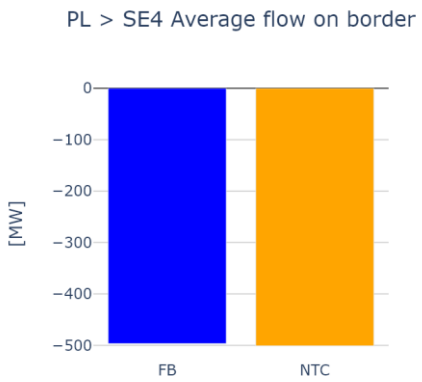

NO3 > SE2 Physical Flow
FB
NTC
[MW]
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

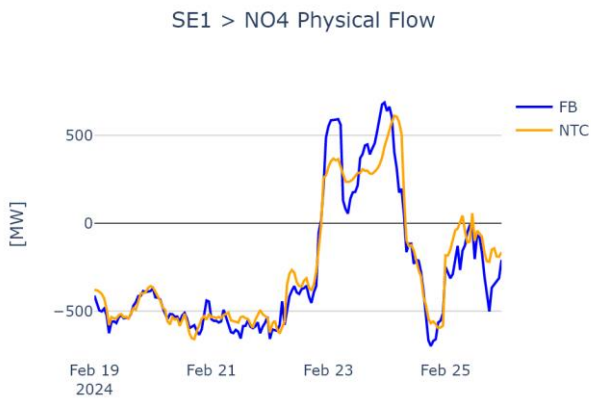

NO3 > SE2 Average flow on border
[MW]
0
−100
−200
−300
FB
NTC

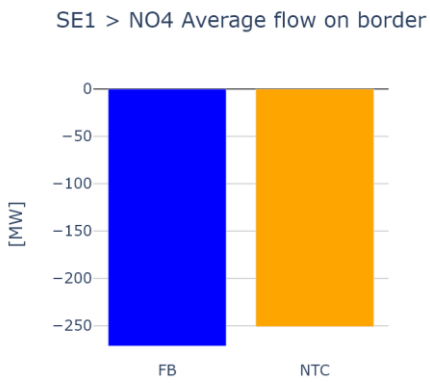

NO4 > SE2 Physical Flow
FB
NTC
[MW]
100
0
−100
Feb 19
2024
Feb 21
Feb 23
Feb 25

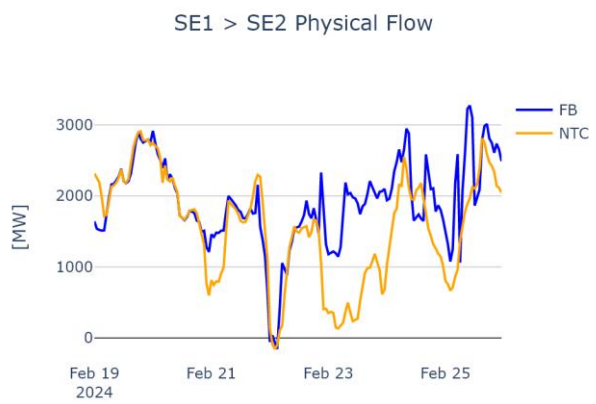

NO4 > SE2 Average flow on border
[MW]
40
30
20
10
0
FB
NTC

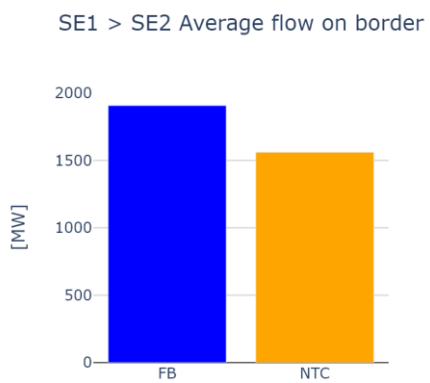

PL > SE4 Physical Flow
FB
NTC
500
0
−500
[MW]
Feb 19
2024
Feb 21
Feb 23
Feb 25


PL > SE4 Average flow on border
0
−100
−200
−300
−400
−500
[MW]
FB
NTC

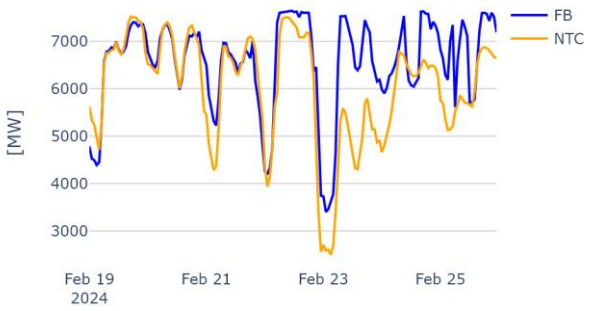

SE1 > NO4 Physical Flow
FB
NTC
500
0
−500
[MW]
Feb 19
2024
Feb 21
Feb 23
Feb 25


SE1 > NO4 Average flow on border
0
−50
−100
−150
−200
−250
[MW]
FB
NTC

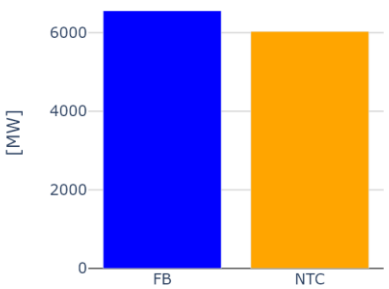

SE1 > SE2 Physical Flow
FB
NTC
3000
2000
1000
0
[MW]
Feb 19
2024
Feb 21
Feb 23
Feb 25


SE1 > SE2 Average flow on border
2000
1500
1000
500
0
[MW]
FB
NTC

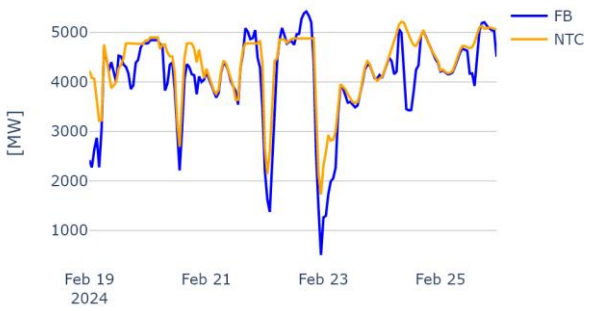
SE2 > SE3 Physical Flow



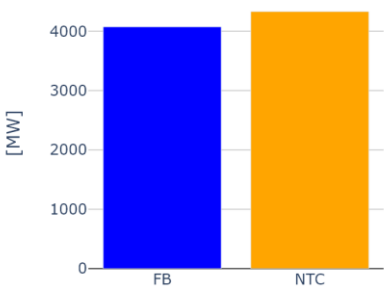
SE2 > SE3 Average flow on border



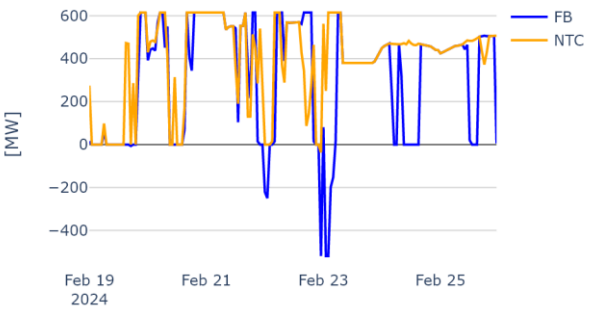
SE3 > SE4 Physical Flow



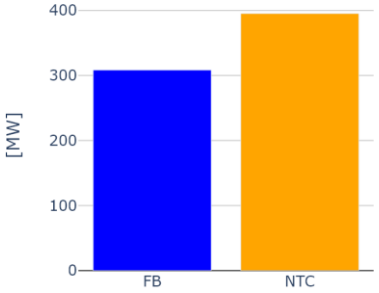
SE3 > SE4 Average flow on border



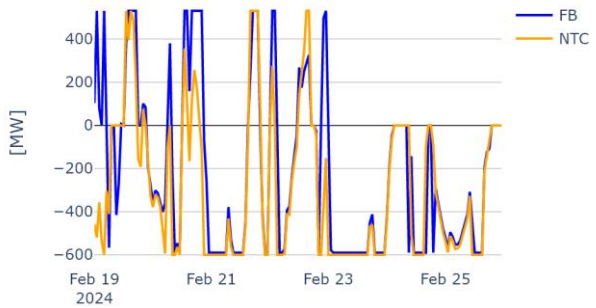
SE4 > DE/LU Physical Flow



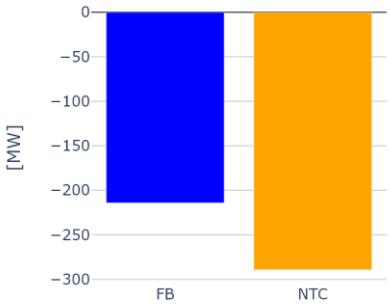
SE4 > DE/LU Average flow on border



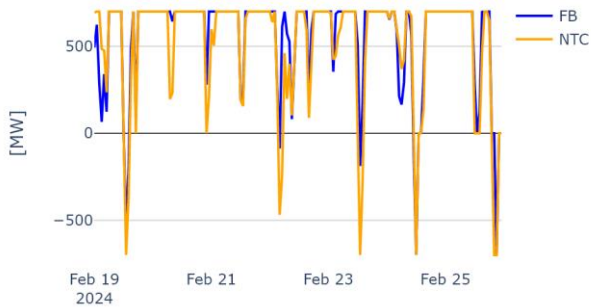
DK1 > DK2 Physical Flow



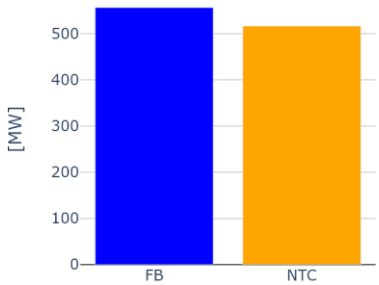
DK1 > DK2 Average flow on border



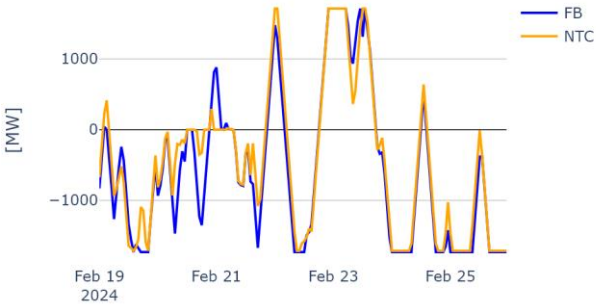
DK1 > NL Physical Flow



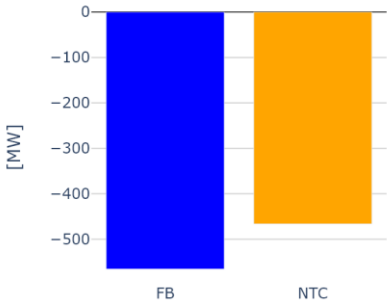
DK1 > NL Average flow on border

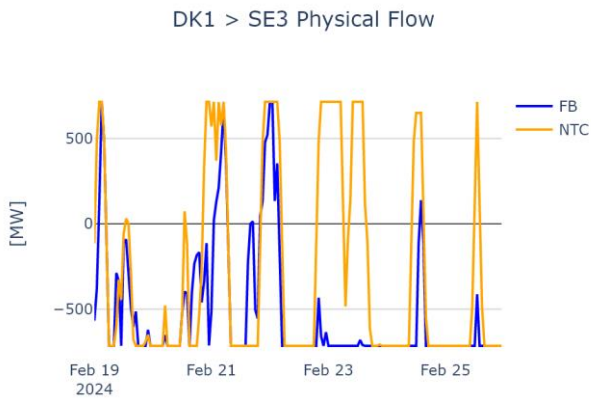


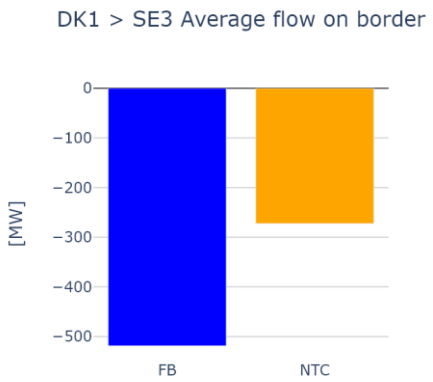
DK1 > NO2 Physical Flow

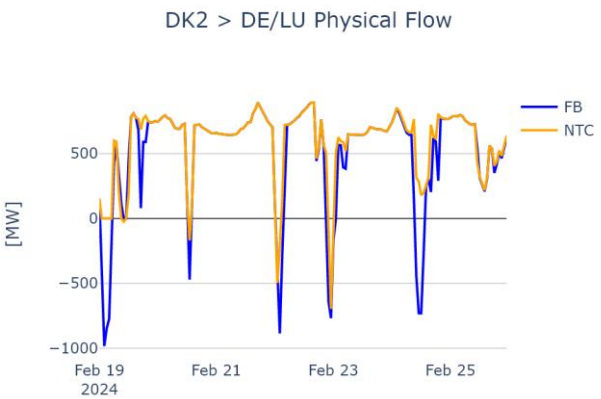


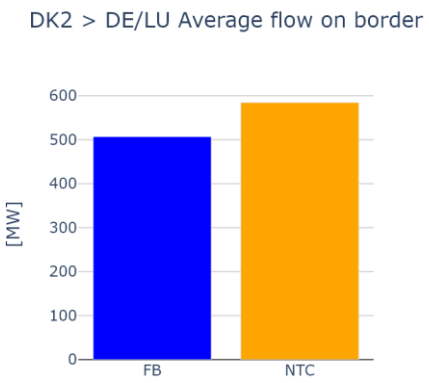
DK1 > NO2 Average flow on border

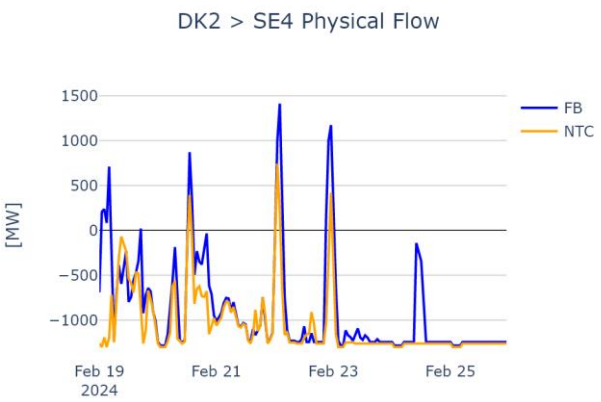


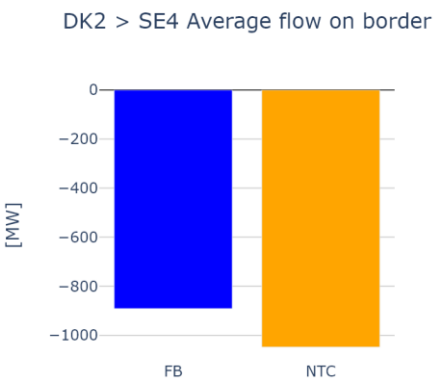

DK1 > SE3 Physical Flow
FB
NTC
[MW]
500
0
−500
Feb 19
2024
Feb 21
Feb 23
Feb 25

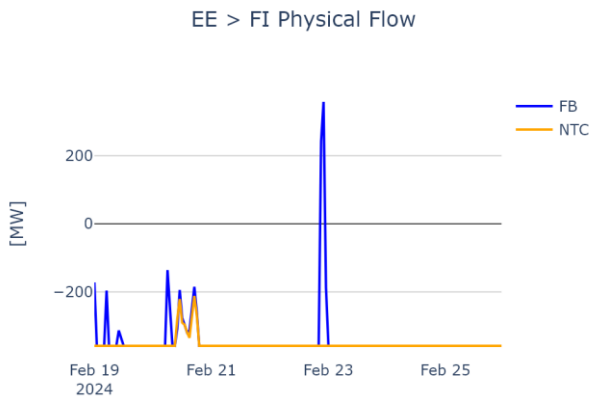

DK1 > SE3 Average flow on border
[MW]
0
−100
−200
−300
−400
−500
FB
NTC

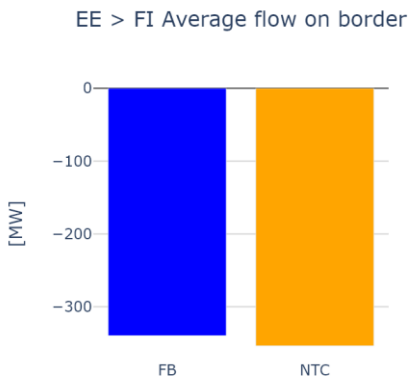

DK2 > DE/LU Physical Flow
FB
NTC
[MW]
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

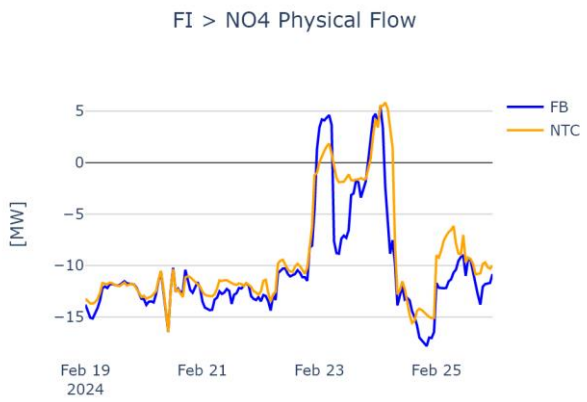

DK2 > DE/LU Average flow on border
[MW]
600
500
400
300
200
100
0
FB
NTC

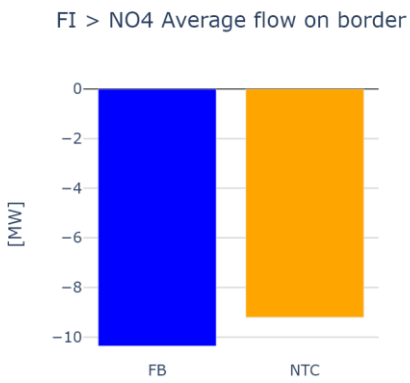

DK2 > SE4 Physical Flow
FB
NTC
[MW]
1500
1000
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

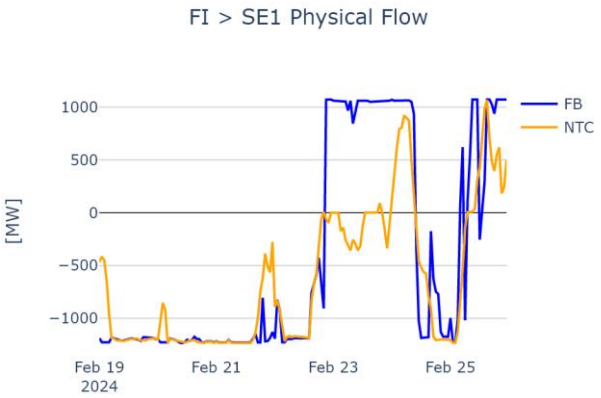

DK2 > SE4 Average flow on border
[MW]
0
−200
−400
−600
−800
−1000
FB
NTC

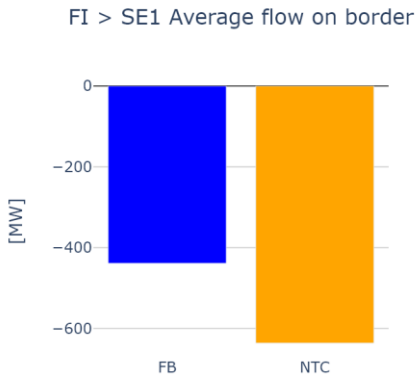

EE > FI Physical Flow
FB
NTC
[MW]
200
0
−200
Feb 19
2024
Feb 21
Feb 23
Feb 25

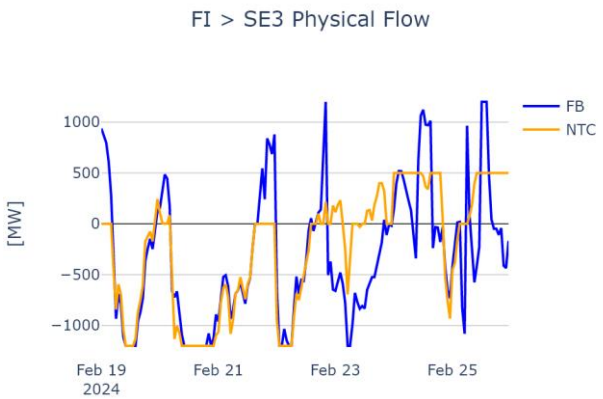

EE > FI Average flow on border
[MW]
0
−100
−200
−300
FB
NTC

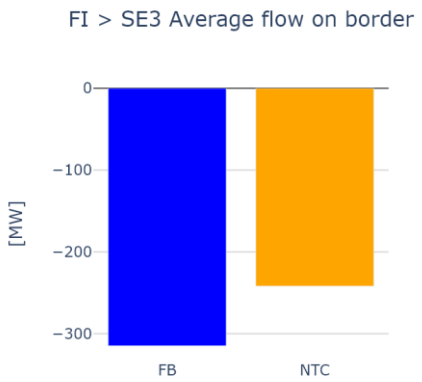

FI > NO4 Physical Flow
FB
NTC
[MW]
5
0
−5
−10
−15
Feb 19
2024
Feb 21
Feb 23
Feb 25

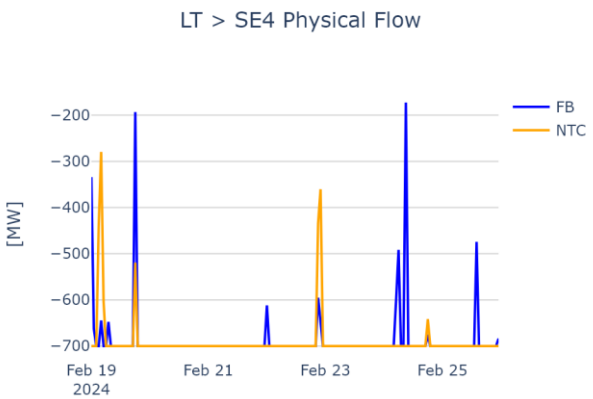

FI > NO4 Average flow on border
[MW]
0
−2
−4
−6
−8
−10
FB
NTC

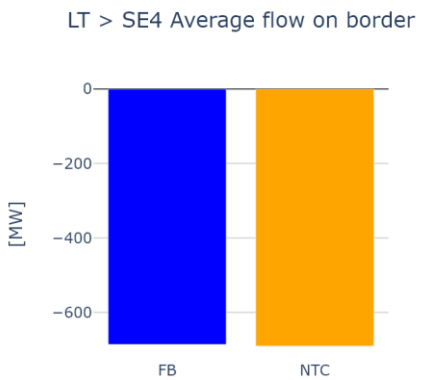

FI > SE1 Physical Flow
FB
NTC
[MW]
1000
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

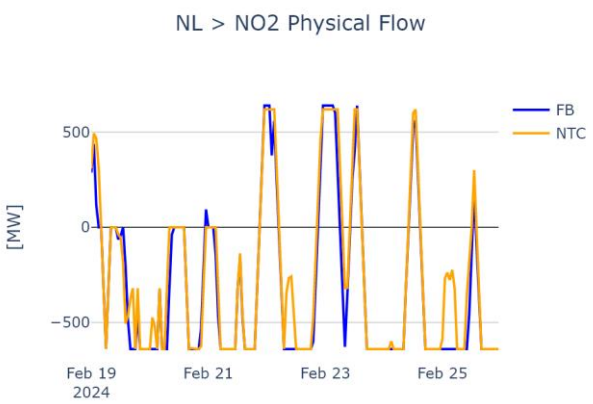

FI > SE1 Average flow on border
[MW]
0
−200
−400
−600
FB
NTC

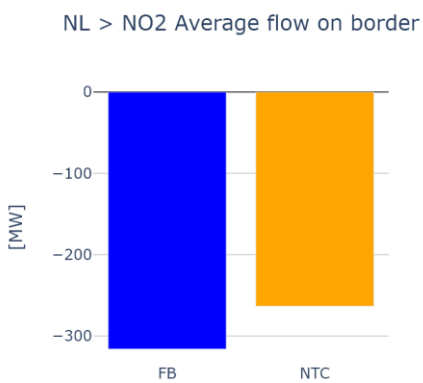

FI > SE3 Physical Flow
FB
NTC
[MW]
1000
500
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25

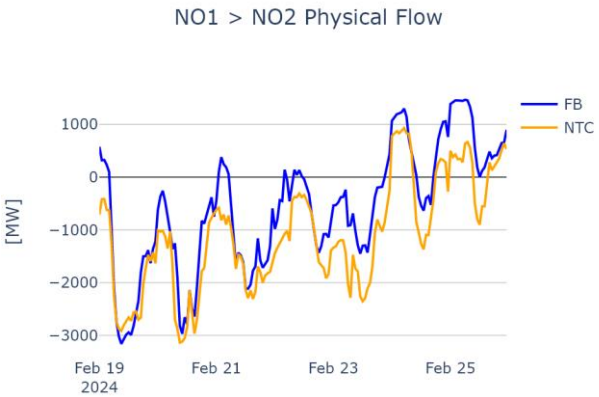

FI > SE3 Average flow on border
[MW]
0
−100
−200
−300
FB
NTC

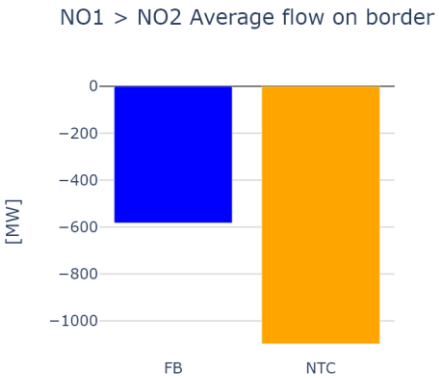

LT > SE4 Physical Flow
FB
NTC
[MW]
−200
−300
−400
−500
−600
−700
Feb 19
2024
Feb 21
Feb 23
Feb 25

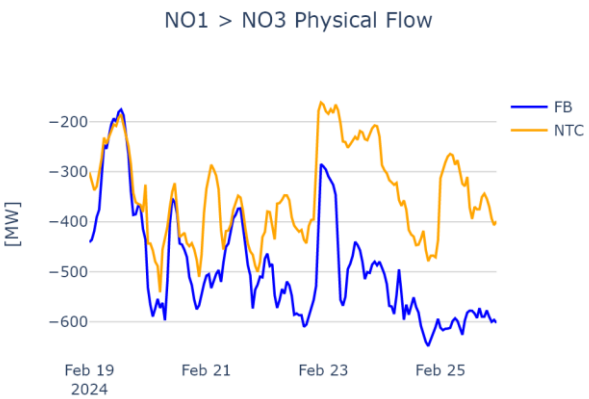

LT > SE4 Average flow on border
[MW]
0
−200
−400
−600
FB
NTC

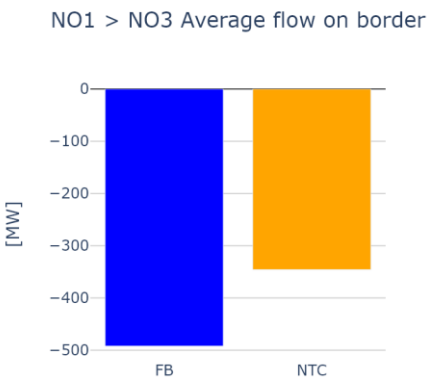

NL > NO2 Physical Flow
FB
NTC
[MW]
500
0
−500
Feb 19
2024
Feb 21
Feb 23
Feb 25

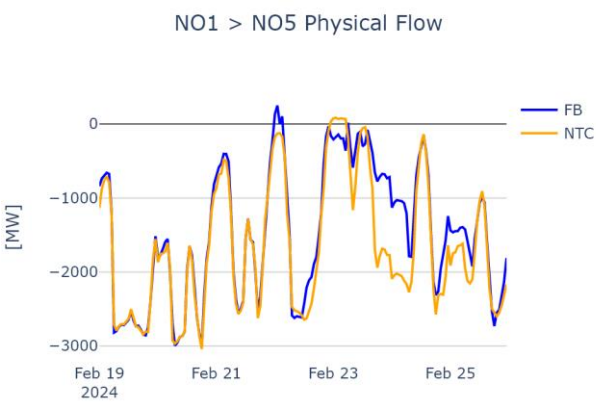

NL > NO2 Average flow on border
[MW]
0
−100
−200
−300
FB
NTC

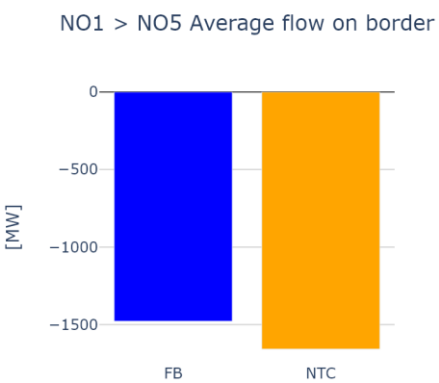

NO1 > NO2 Physical Flow
FB
NTC
[MW]
1000
0
−1000
−2000
−3000
Feb 19
2024
Feb 21
Feb 23
Feb 25

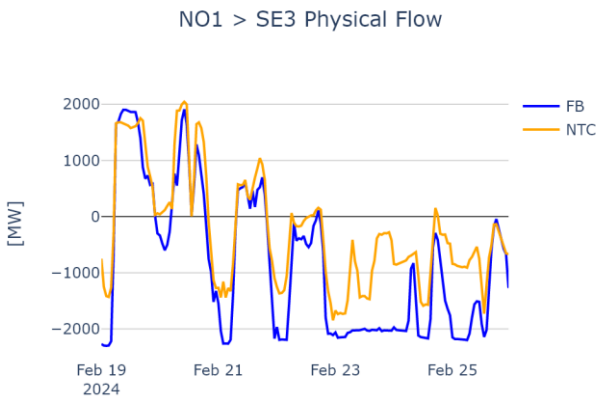

NO1 > NO2 Average flow on border
[MW]
0
−200
−400
−600
−800
−1000
FB
NTC

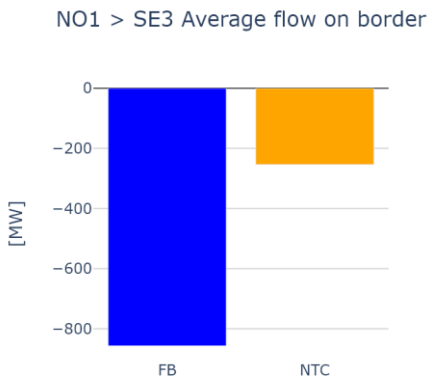

NO1 > NO3 Physical Flow
FB
NTC
[MW]
−200
−300
−400
−500
−600
Feb 19
2024
Feb 21
Feb 23
Feb 25

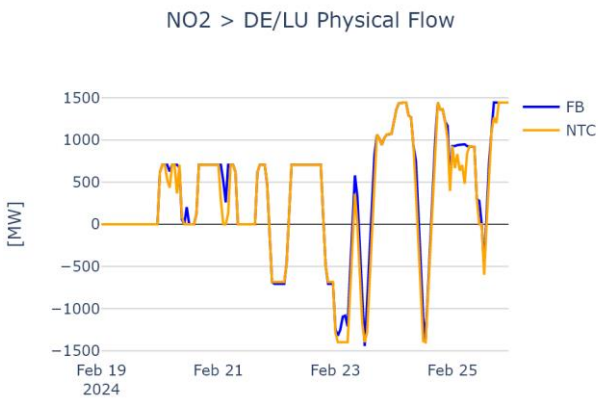

NO1 > NO3 Average flow on border
[MW]
0
−100
−200
−300
−400
−500
FB
NTC

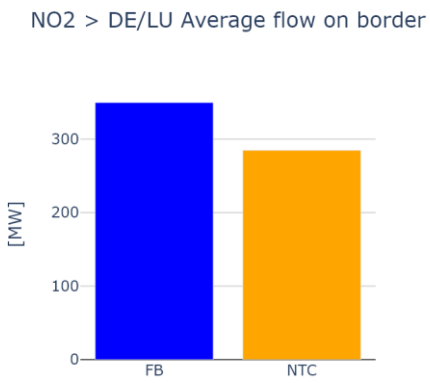

NO1 > NO5 Physical Flow
FB
NTC
[MW]
0
−1000
−2000
−3000
Feb 19
2024
Feb 21
Feb 23
Feb 25

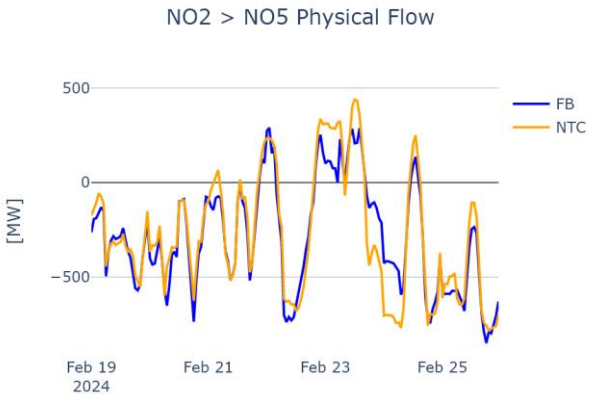

NO1 > NO5 Average flow on border
[MW]
0
−500
−1000
−1500
FB
NTC

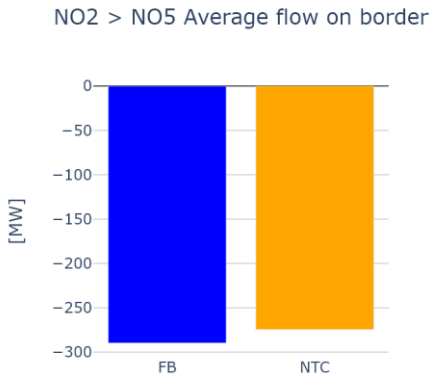

NO1 > SE3 Physical Flow
2000
1000
0
−1000
−2000
[MW]
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

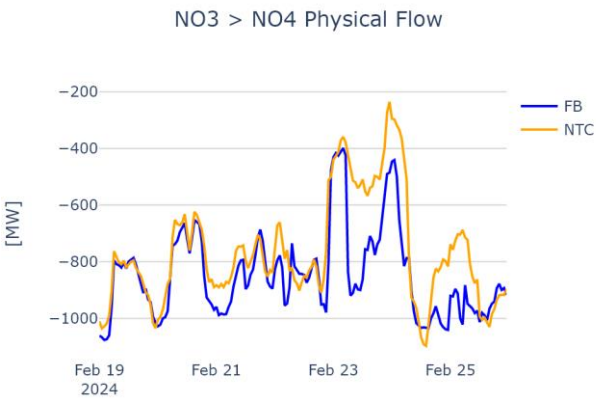

NO1 > SE3 Average flow on border
0
−200
−400
−600
−800
[MW]
FB
NTC

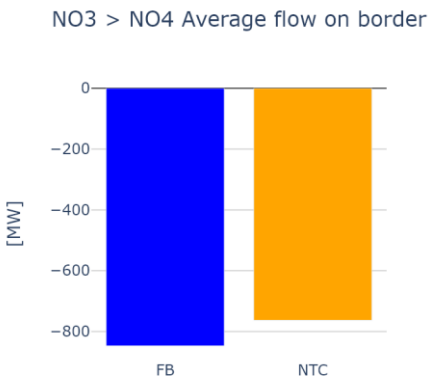

NO2 > DE/LU Physical Flow
1500
1000
500
0
−500
−1000
−1500
[MW]
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

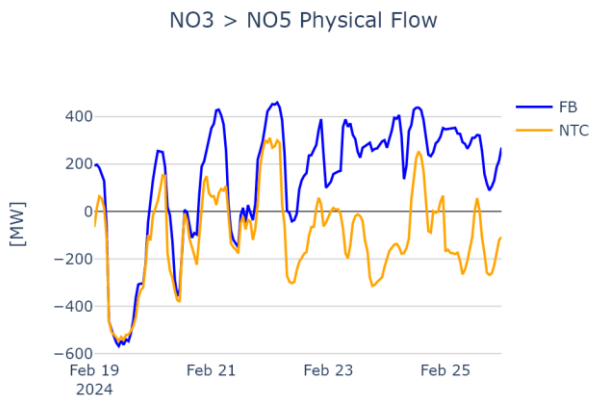

NO2 > DE/LU Average flow on border
300
200
100
0
[MW]
FB
NTC

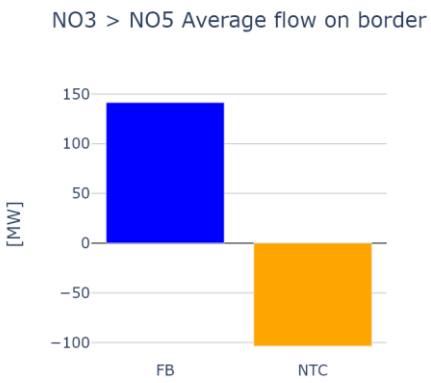

NO2 > NO5 Physical Flow
500
0
−500
[MW]
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

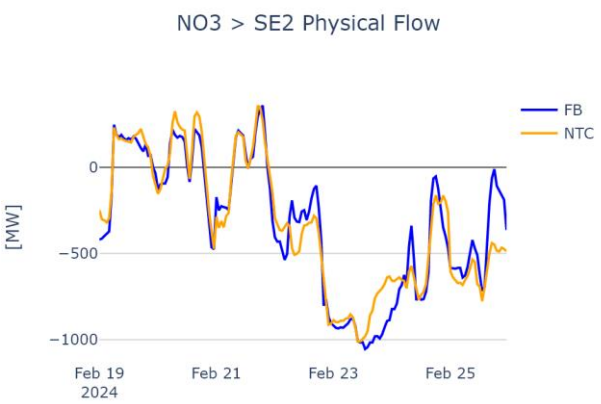

NO2 > NO5 Average flow on border
0
−50
−100
−150
−200
−250
−300
[MW]
FB
NTC

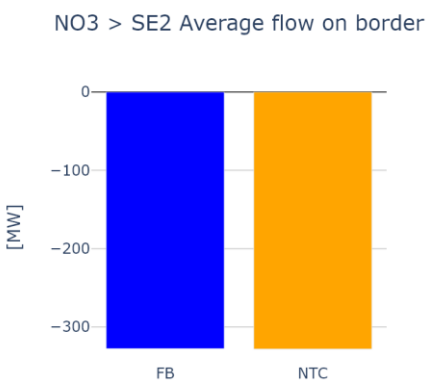

NO3 > NO4 Physical Flow
[MW]
−200
−400
−600
−800
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

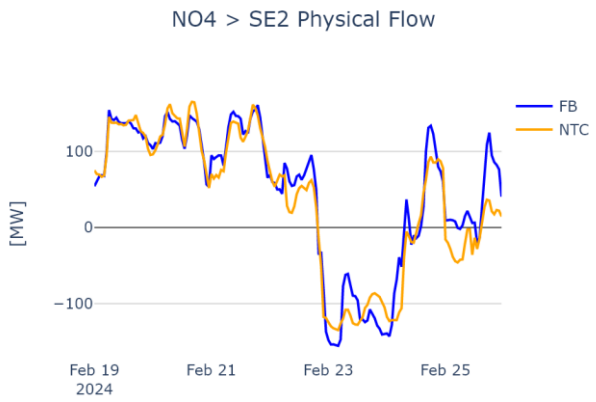

NO3 > NO4 Average flow on border
[MW]
0
−200
−400
−600
−800
FB
NTC

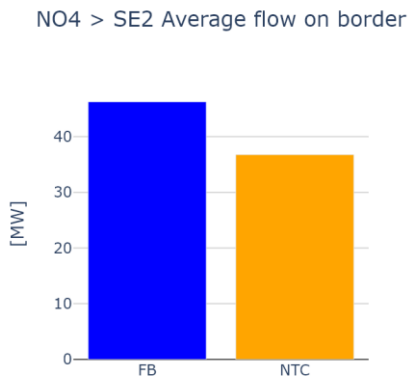

NO3 > NO5 Physical Flow
[MW]
400
200
0
−200
−400
−600
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

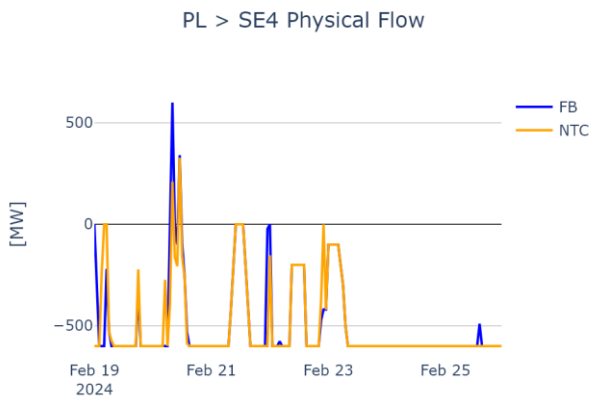

NO3 > NO5 Average flow on border
[MW]
150
100
50
0
−50
−100
FB
NTC

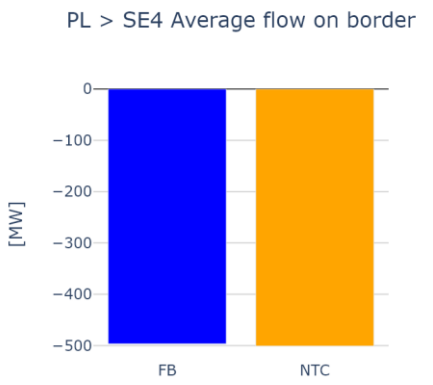

NO3 > SE2 Physical Flow
[MW]
0
−500
−1000
Feb 19
2024
Feb 21
Feb 23
Feb 25
FB
NTC

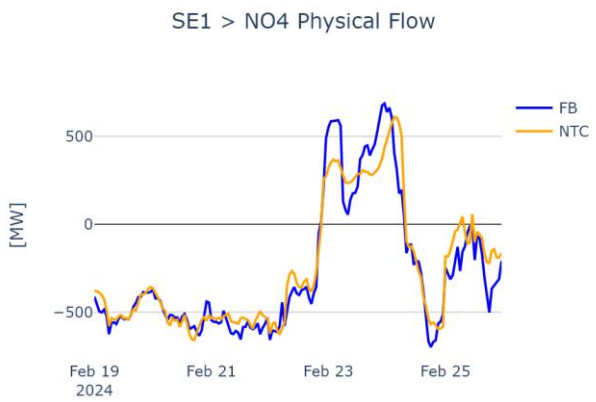

NO3 > SE2 Average flow on border
[MW]
0
−100
−200
−300
FB
NTC

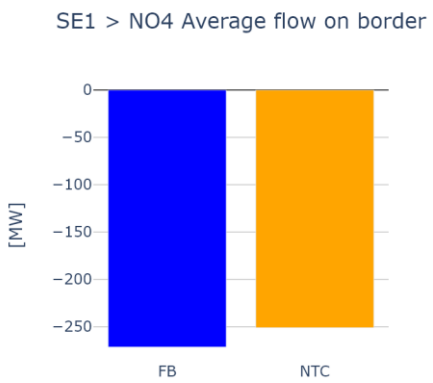

NO4 > SE2 Physical Flow
FB
NTC
[MW]
100
0
−100
Feb 19
2024
Feb 21
Feb 23
Feb 25


NO4 > SE2 Average flow on border
[MW]
40
30
20
10
0
FB
NTC

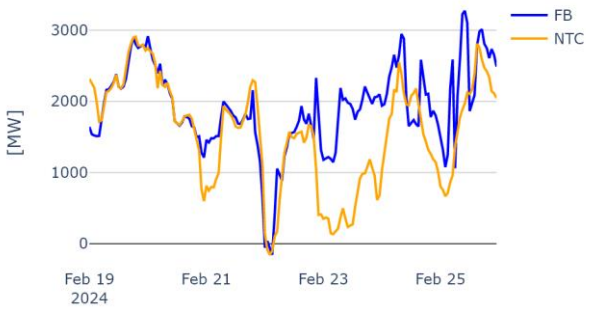

PL > SE4 Physical Flow
FB
NTC
[MW]
500
0
−500
Feb 19
2024
Feb 21
Feb 23
Feb 25


PL > SE4 Average flow on border
[MW]
0
−100
−200
−300
−400
−500
FB
NTC

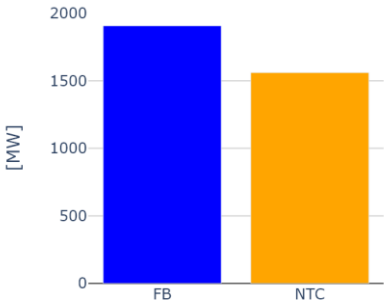

SE1 > NO4 Physical Flow
FB
NTC
[MW]
500
0
−500
Feb 19
2024
Feb 21
Feb 23
Feb 25


SE1 > NO4 Average flow on border
[MW]
0
−50
−100
−150
−200
−250
FB
NTC

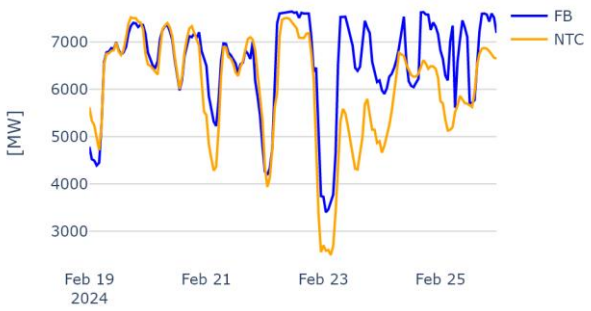
SE1 > SE2 Physical Flow



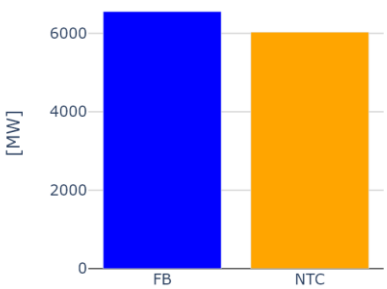
SE1 > SE2 Average flow on border



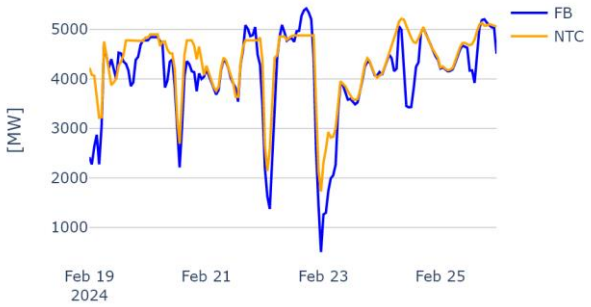
SE2 > SE3 Physical Flow



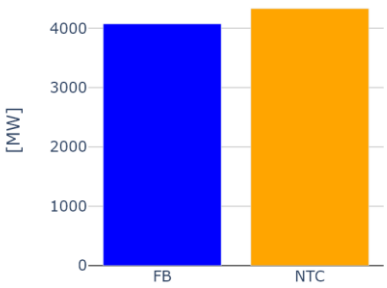
SE2 > SE3 Average flow on border

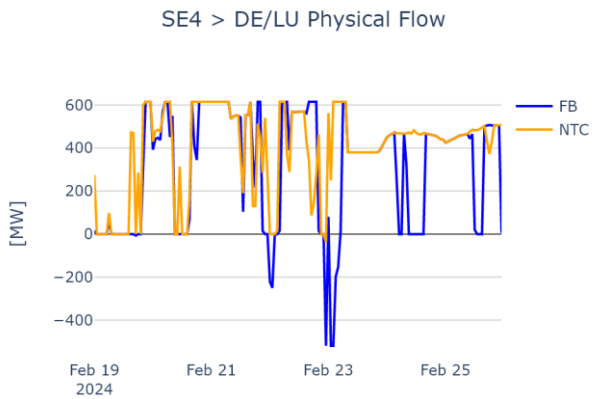


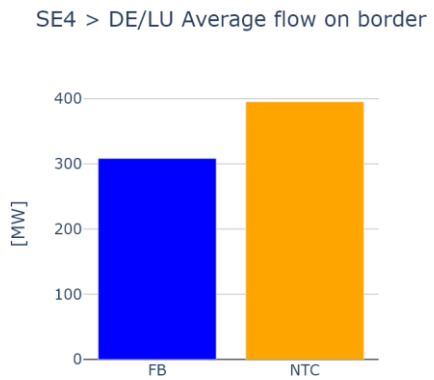
SE3 > SE4 Physical Flow



SE3 > SE4 Average flow on border







Flows per border (FB)

Values are rounded to the nearest integer.

Border	Congestion Income (total)	Avg. Price Spread
DK1 > DE/LU	1212009	4
DK1 > DK2	237886	2
DK1 > NL	455582	4
DK1 > NO2	1008407	5
DK1 > SE3	1176115	10
DK2 > DE/LU	668742	6
DK2 > SE4	872919	4
EE > FI	1374637	23
FI > NO4	11185	6
FI > SE1	987627	5
FI > SE3	464994	2
LT > SE4	2151021	18
NL > NO2	647169	8
NO1 > NO2	16938	0
NO1 > NO3	809633	9
NO1 > NO5	143355	0
NO1 > SE3	3009927	10
NO2 > DE/LU	956653	7
NO2 > NO5	62437	1
NO3 > NO4	684206	5
NO3 > NO5	368901	8
NO3 > SE2	665534	6
NO4 > SE2	50426	3
PL > SE4	2131389	23

SE1 > NO4	197861	2
SE1 > SE2	-18360	0
SE2 > SE3	6463858	5
SE3 > SE4	2806472	4
SE4 > DE/LU	684198	10
DK1 > DK2	237886	2
DK1 > NL	455582	4
DK1 > NO2	1008407	5
DK1 > SE3	1176115	10
DK2 > DE/LU	668742	6
DK2 > SE4	872919	4
EE > FI	1374637	23
FI > NO4	11185	6
FI > SE1	987627	5
FI > SE3	464994	2
LT > SE4	2151021	18
NL > NO2	647169	8
NO1 > NO2	16938	0
NO1 > NO3	809633	9
NO1 > NO5	143355	0
NO1 > SE3	3009927	10
NO2 > DE/LU	956653	7
NO2 > NO5	62437	1
NO3 > NO4	684206	5
NO3 > NO5	368901	8
NO3 > SE2	665534	6
NO4 > SE2	50426	3
PL > SE4	2131389	23
SE1 > NO4	197861	2
SE1 > SE2	-18360	0
SE2 > SE3	6463858	5
SE3 > SE4	2806472	4
SE4 > DE/LU	684198	10

Non-Intuitive flows (FB)

Values are rounded to the nearest integer.

Border	Pct. of non-intuitive flows	Negative congestion income	Avg. price spread for non-intuitive flows
DK1 > DE/LU	0	0	0
DK1 > DK2	1	-2	0
DK1 > NL	1	-1181	-6
DK1 > NO2	8	-27199	-2
DK1 > SE3	24	-12322	-1
DK2 > DE/LU	4	-1115	-1
DK2 > SE4	20	-7536	0
EE > FI	4	-305	0
FI > NO4	26	-1266	-4
FI > SE1	1	0	0
FI > SE3	33	-75133	-6
LT > SE4	2	-195	0
NL > NO2	2	-1399	-2
NO1 > NO2	39	-20605	0
NO1 > NO3	10	-8023	-1
NO1 > NO5	16	-29517	-5
NO1 > SE3	7	-16839	-5
NO2 > DE/LU	1	-276	-1
NO2 > NO5	26	-6967	-1
NO3 > NO4	15	-26044	-1
NO3 > NO5	21	-16414	-3
NO3 > SE2	17	-32061	-4
NO4 > SE2	26	-7448	-2
PL > SE4	1	-4182	-12
SE1 > NO4	23	-33067	-2
SE1 > SE2	48	-113575	-1
SE2 > SE3	21	-335535	-2
SE3 > SE4	30	-92868	-1
SE4 > DE/LU	1	-3	0
DK1 > DK2	1	-2	0
DK1 > NL	1	-1181	-6
DK1 > NO2	8	-27199	-2
DK1 > SE3	24	-12322	-1
DK2 > DE/LU	4	-1115	-1
DK2 > SE4	20	-7536	0
EE > FI	4	-305	0
FI > NO4	26	-1266	-4
FI > SE1	1	0	0

FI > SE3	33	-75133	-6
LT > SE4	2	-195	0
NL > NO2	2	-1399	-2
NO1 > NO2	39	-20605	0
NO1 > NO3	10	-8023	-1
NO1 > NO5	16	-29517	-5
NO1 > SE3	7	-16839	-5
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SE1 > SE2	48	-113575	-1
SE2 > SE3	21	-335535	-2
SE3 > SE4	30	-92868	-1
SE4 > DE/LU	1	-3	0