2023W49 ATC Extraction Results

Nordic RCC

January 9, 2024

Bidding zone lock-in statistics

An area operates at maximum export when the sum of ATC on all exporting directions of that area is less than 1MW. An area operates at maximum import when the sum of ATC on all importing directions of that area is less than 1MW. An area operates in lock-in if during the same MTU it is operating at both maximum export and maximum import.

1 MTUs where ATCE failed have been excluded from the statistics.

Bidding zone	#MTUs at	#MTUs at	#MTUs at
	max Export	max Import	lock-in
DK1	0	0	0
DK2	0	0	0
SE1	0	0	0
SE2	0	0	0
SE3	0	0	0
SE4	0	0	0
NO1	0	0	0
NO2	0	0	0
NO3	0	34	0
NO4	105	0	0
NO5	0	0	0
FI	0	0	0

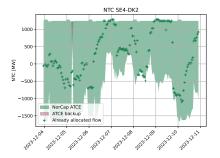
Border lock-in statistics

A bidding zone border is operating in a lock-in situation, if at a given MTU, the ATC of the bidding zone border is smaller than 1MW in both forward and reverse trading direction.

1 MTUs where ATCE failed have been excluded from the statistics.

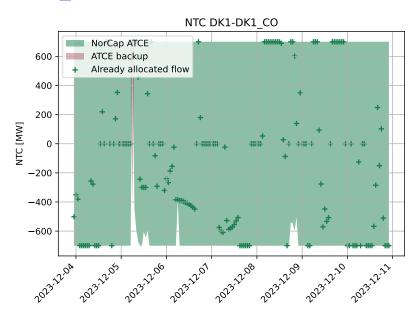
Border | #MTUs at lock-in

Border NTC plots - Reader's guide

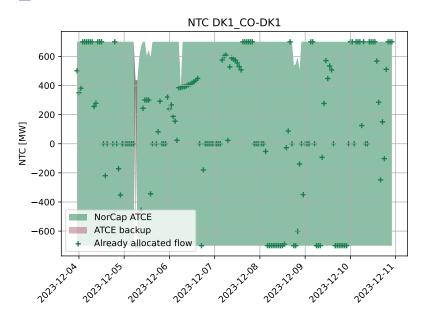


The colored area represents the possible exchange on this border and direction. The cross marks the simulated day ahead market coupling flows. Any colored area above the cross, means that intraday market will be able to increase exchange over the day ahead market coupling flows. Any colored area below the cross means that the intraday market will be able to trade against the day ahead market.

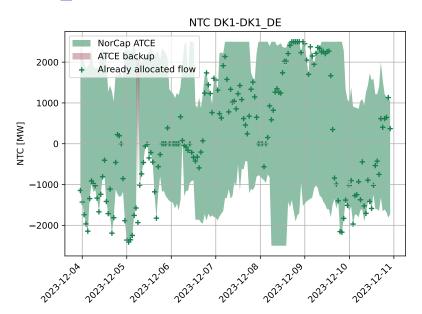
DK1-DK1_CO



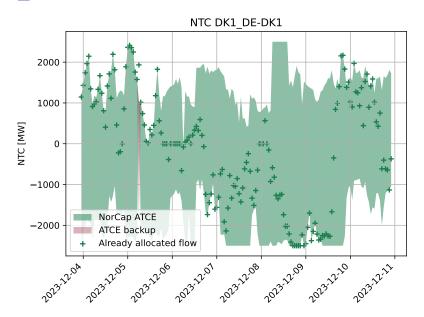
DK1_CO-DK1



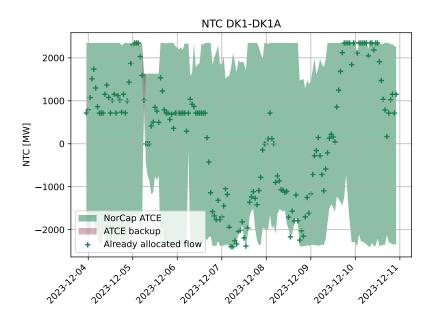
DK1-DK1_DE



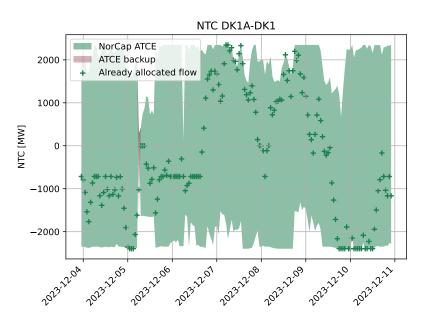
DK1_DE-DK1



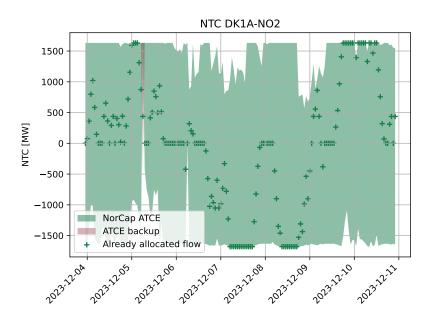
DK1-DK1A



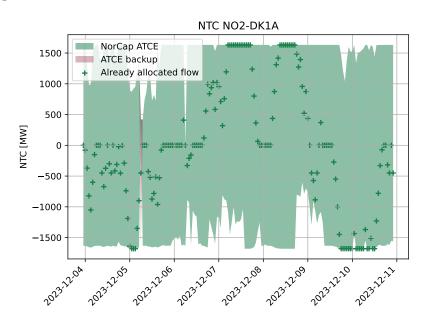
DK1A-DK1



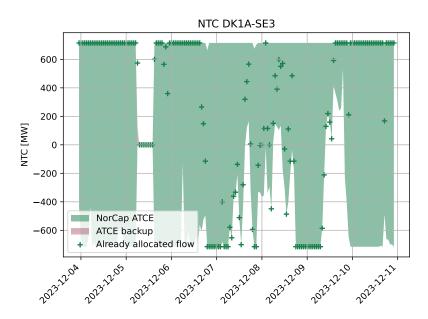
DK1A-NO2



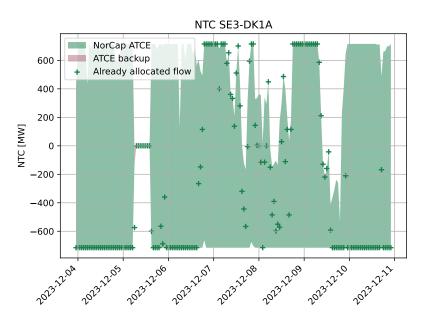
NO2-DK1A



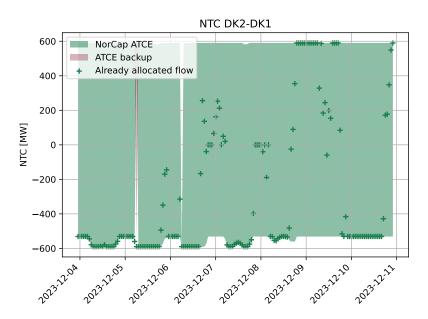
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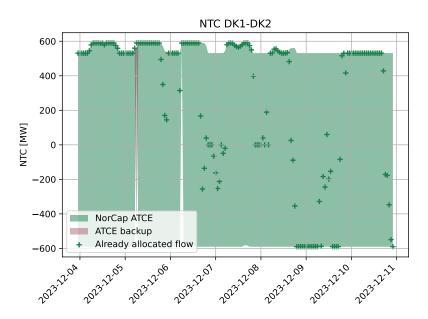
SE3-DK1A



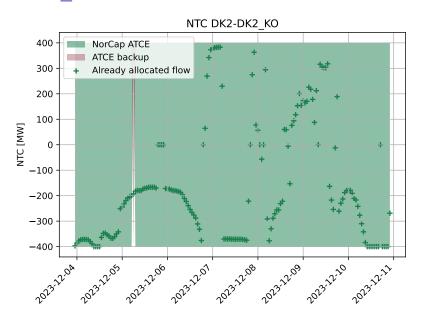
DK2-DK1



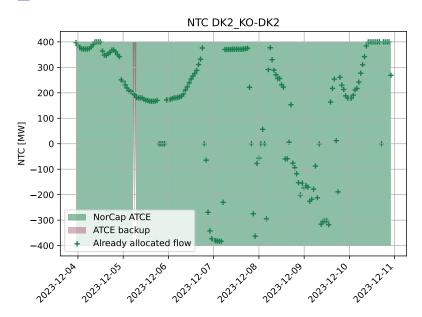
DK1-DK2



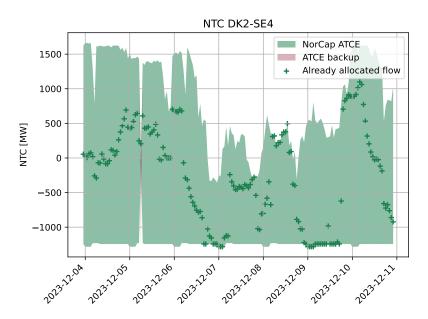
DK2-DK2 KO



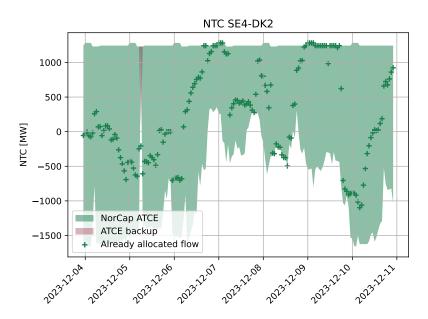
DK2_KO-DK2



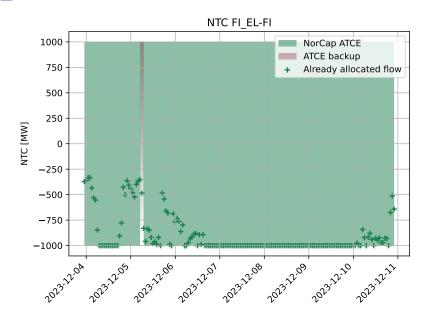
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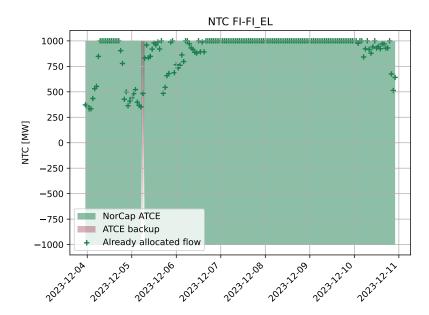
SE4-DK2



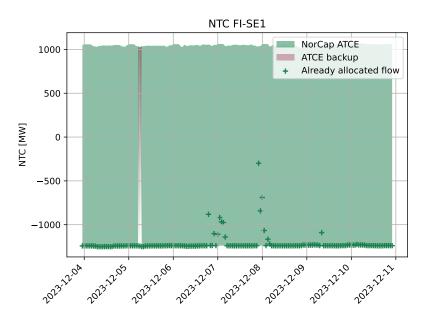
FI EL-FI



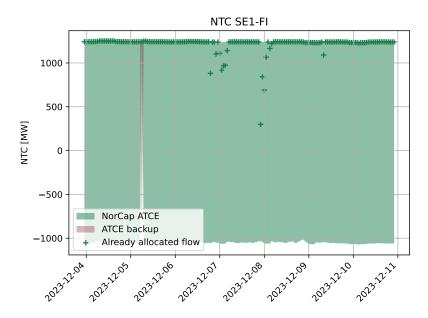
FI-FI EL



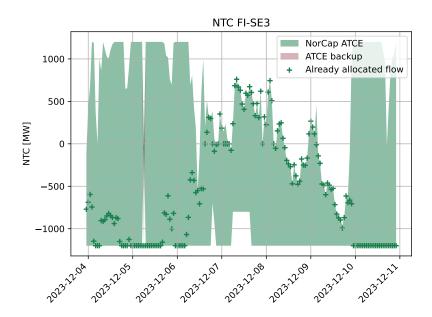
FI-SE1



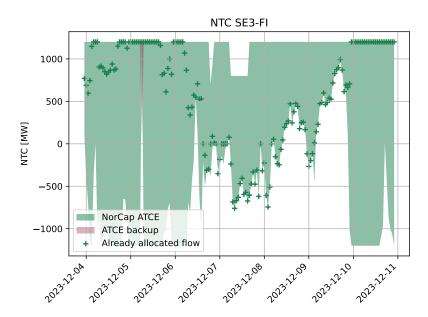
SE1-FI



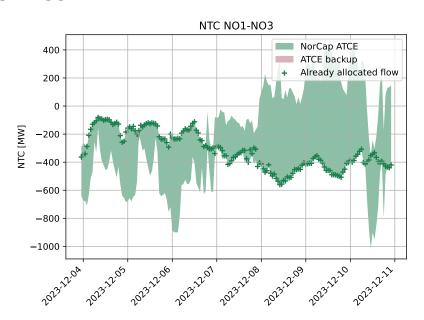
FI-SE3



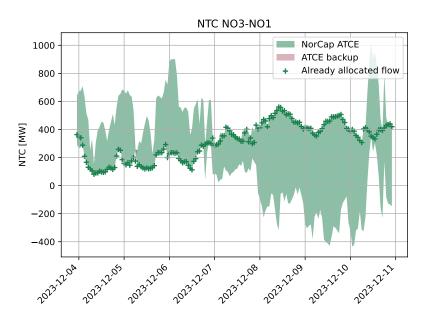
SE3-FI



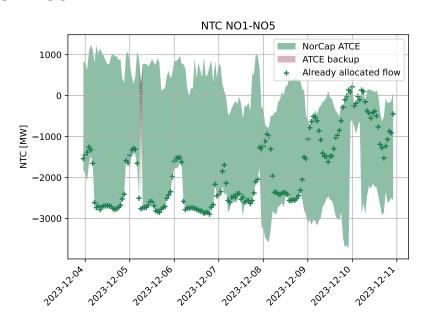
NO1-NO3



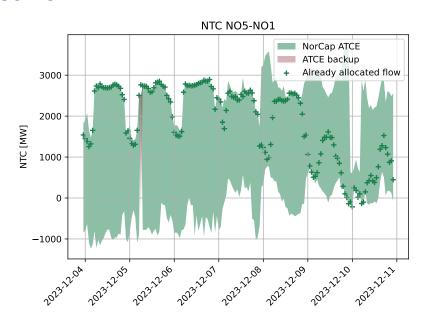
NO3-NO1



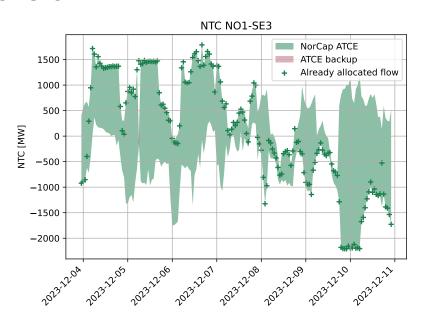
NO1-NO5



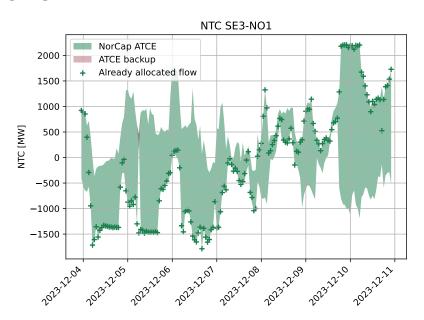
NO5-NO1



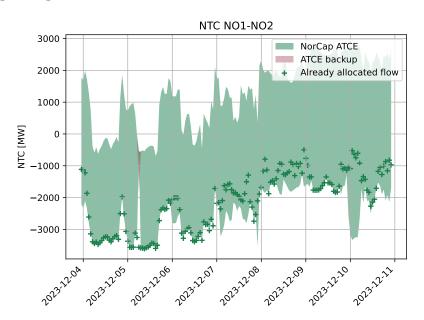
NO1-SE3



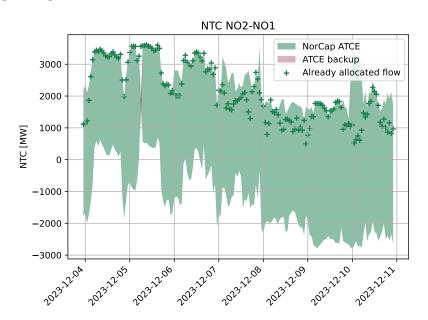
SE3-NO1



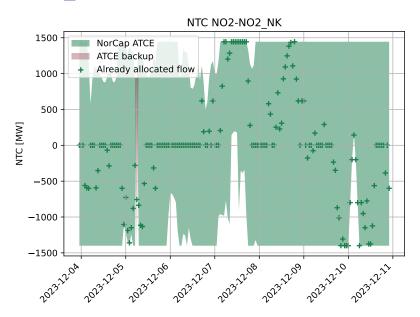
NO1-NO2



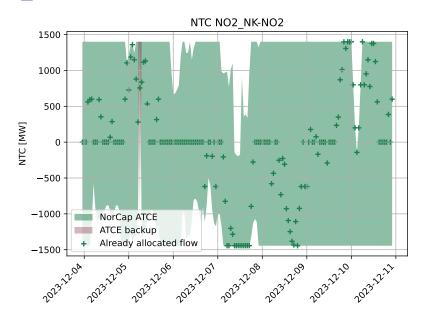
NO2-NO1



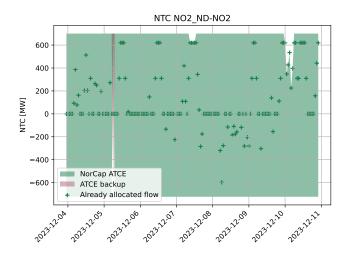
NO2-NO2 NK



NO2_NK-NO2

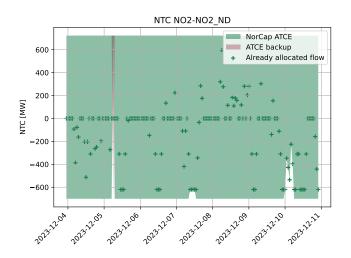


NO2_ND-NO2



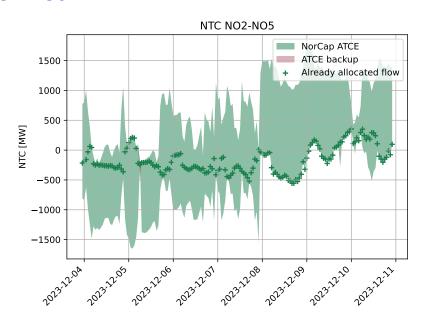
Note: NTC for NorNed includes 3.1% capacity reserved for losses. These will be subtracted in a future revision.

NO2-NO2 ND

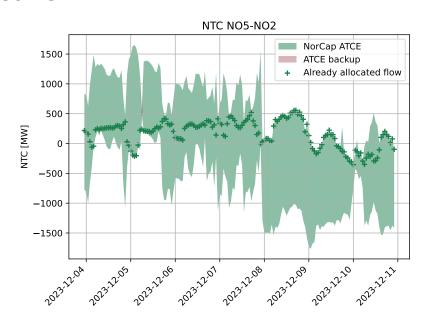


Note: NTC for NorNed includes 3.1% capacity reserved for losses. These will be subtracted in a future revision.

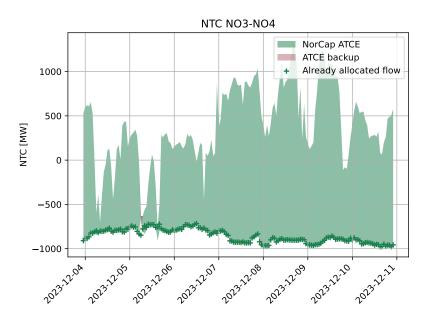
NO2-NO5



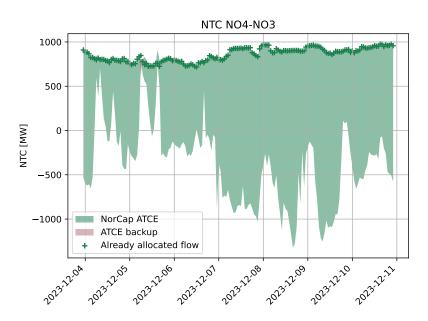
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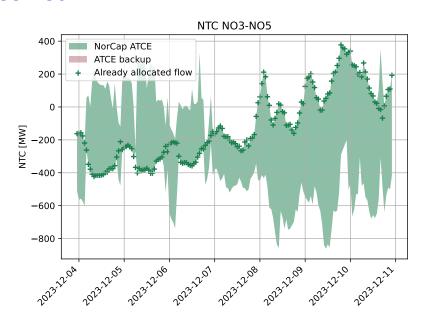
NO3-NO4



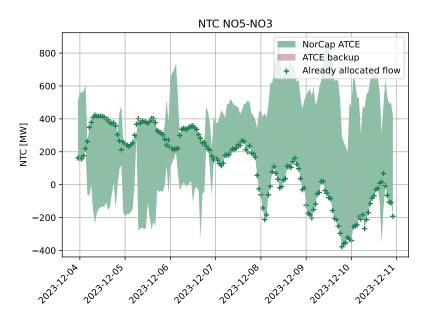
NO4-NO3



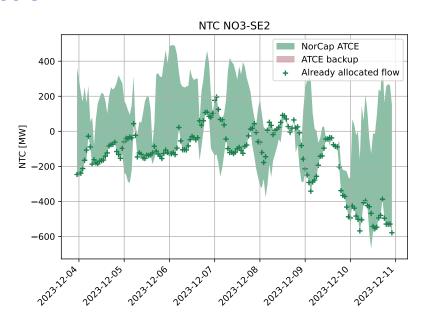
NO3-NO5



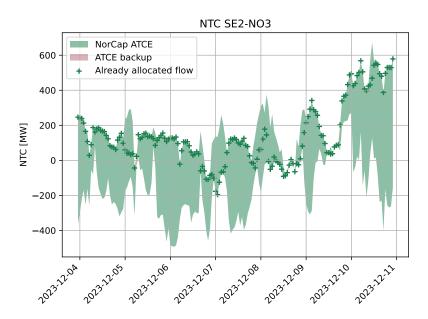
NO5-NO3



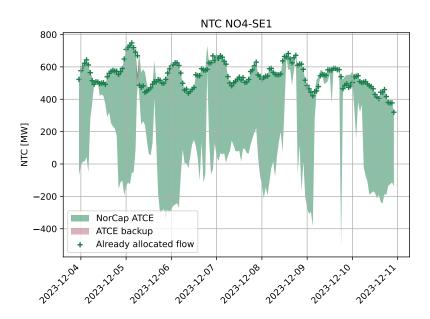
NO3-SE2



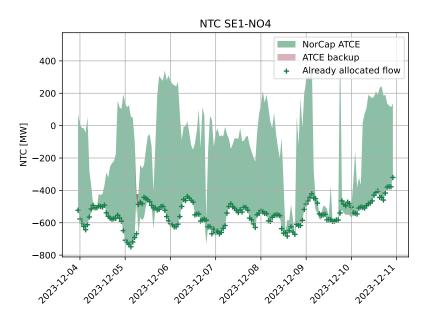
SE2-NO3



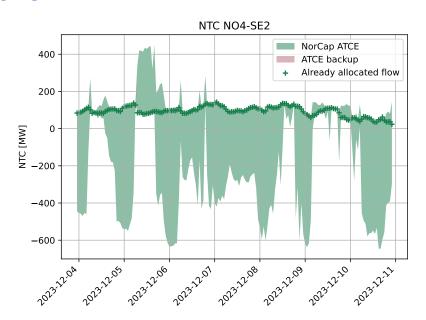
NO4-SE1



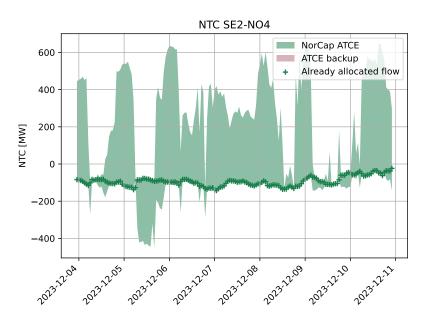
SE1-NO4



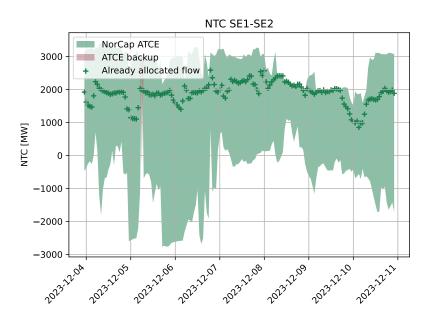
NO4-SE2



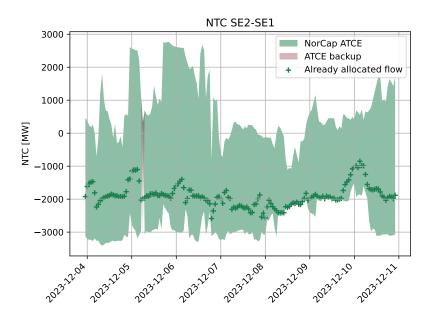
SE2-NO4



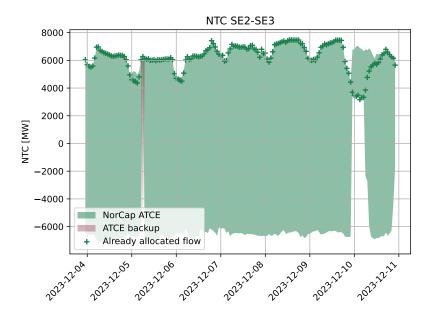
SE1-SE2



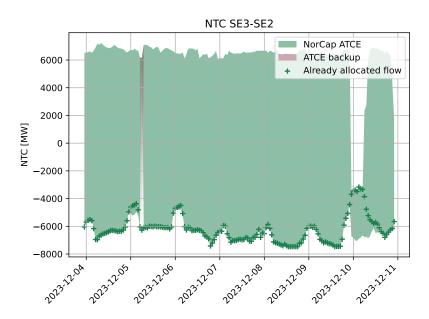
SE2-SE1



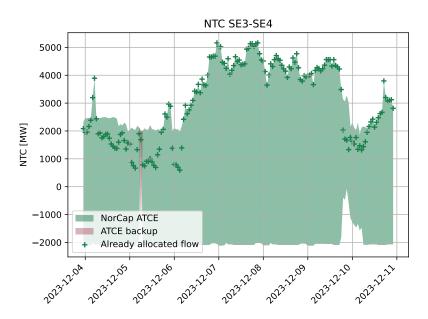
SE2-SE3



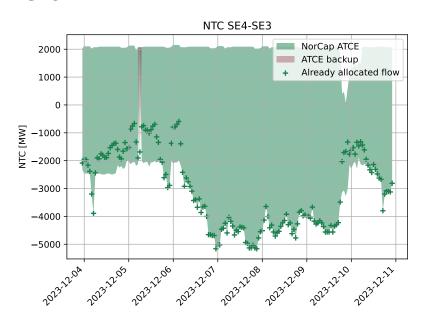
SE3-SE2



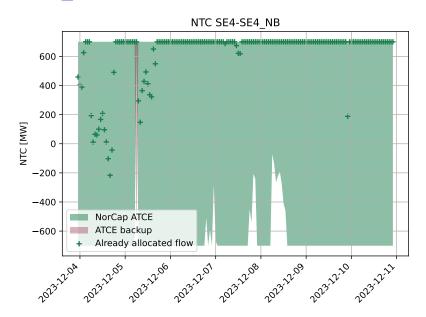
SE3-SE4



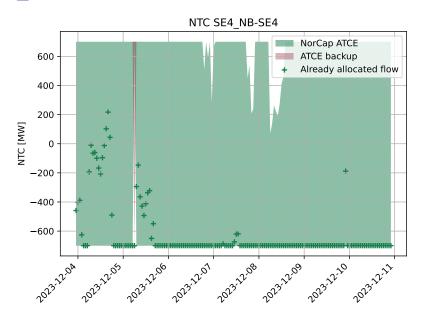
SE4-SE3



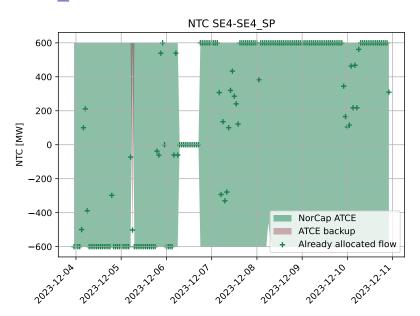
SE4-SE4_NB



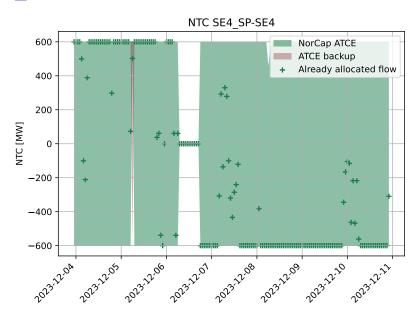
SE4_NB-SE4



SE4-SE4 SP



SE4_SP-SE4

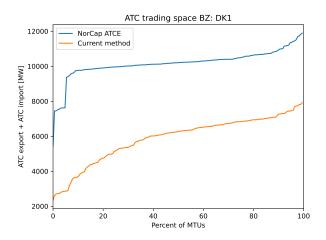


Bidding zone trading space

The total trading space of a bidding zone for a given MTU is the sum of export capacity and import capacity on all borders of that bidding zone for that MTU. The directional trading space is the sum of ATC on all borders of a bidding zone in either exporting or importing direction.

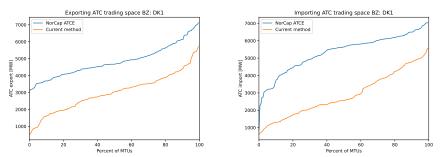
<u>Disclaimer:</u> Trading space computed by the reference method (i.e. the current method used in production) are calculated from intra-day offered ATCs collected from ENTSO-e transparency platform. It must be noted that the capacities collected at transparency platform are harmonized capacities including limimtations submitted by non-Nordic TSOs and ramping constraints for some HVDCs.

DK1 - Total trading space



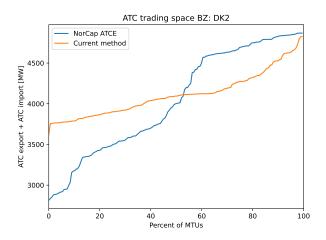
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

DK1 - Directional trading space



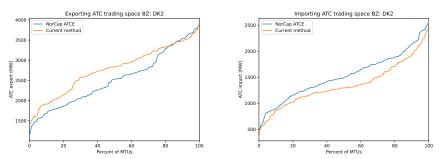
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

DK2 - Total trading space



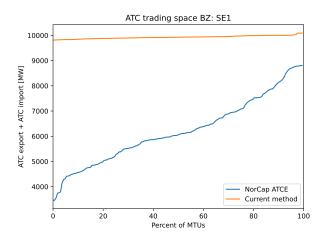
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

DK2 - Directional trading space



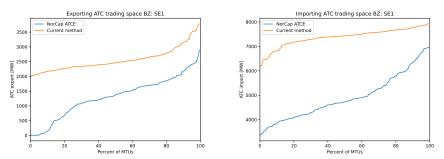
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE1 - Total trading space



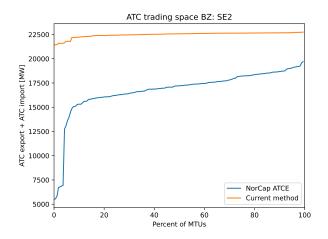
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SE1 - Directional trading space



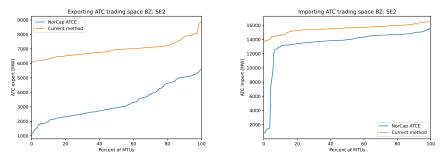
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SE2 - Total trading space



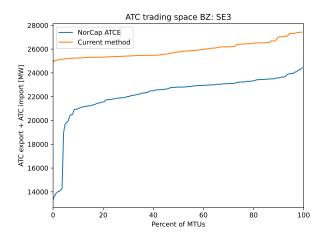
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SE2 - Directional trading space



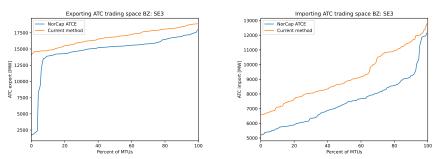
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SE3 - Total trading space



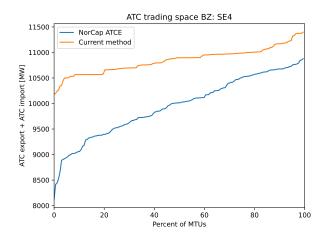
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE3 - Directional trading space



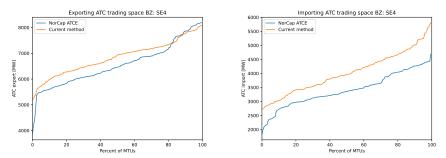
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SE4 - Total trading space



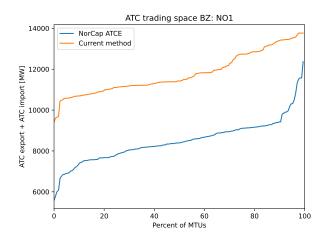
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SE4 - Directional trading space

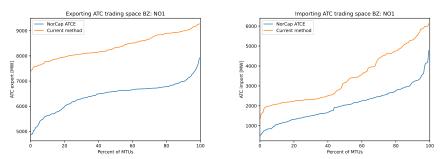


Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO1 - Total trading space

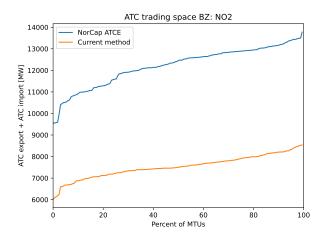


NO1 - Directional trading space

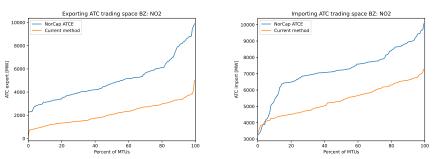


Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

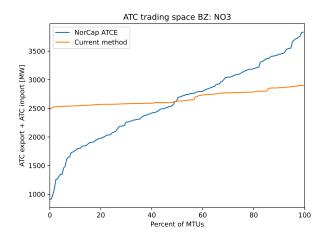
NO2 - Total trading space



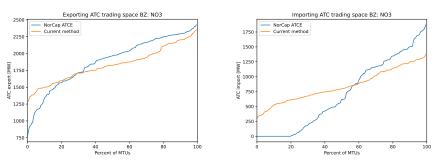
NO2 - Directional trading space



NO3 - Total trading space

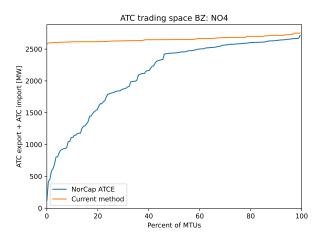


NO3 - Directional trading space

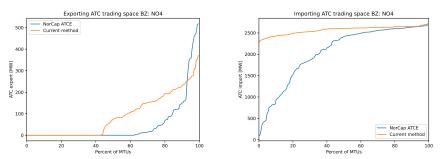


Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

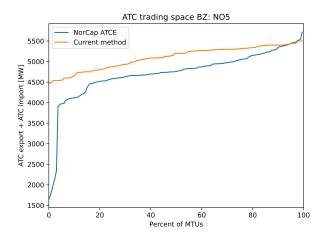
NO4 - Total trading space



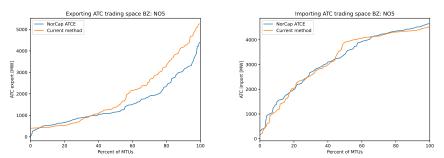
NO4 - Directional trading space



NO5 - Total trading space

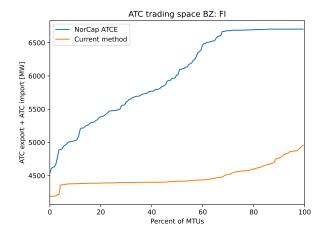


NO5 - Directional trading space

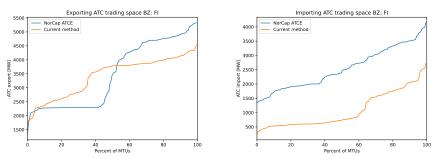


Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

FI - Total trading space

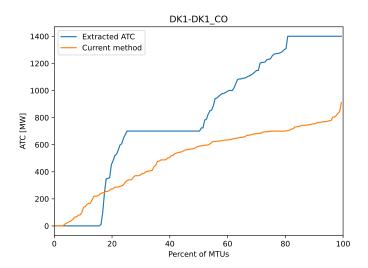


FI - Directional trading space



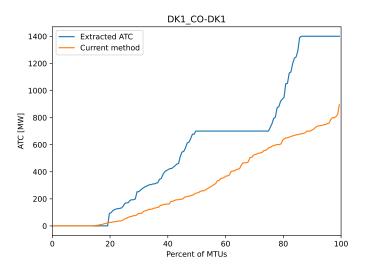
Capacity duration curves

DK1-DK1 CO ATC duration curves



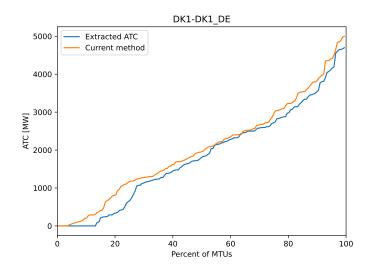


DK1_CO-DK1 ATC duration curves



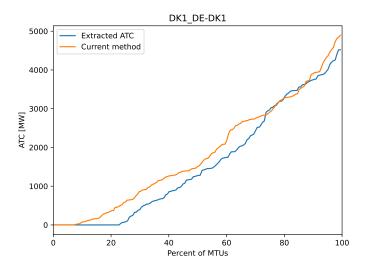


DK1-DK1 DE ATC duration curves



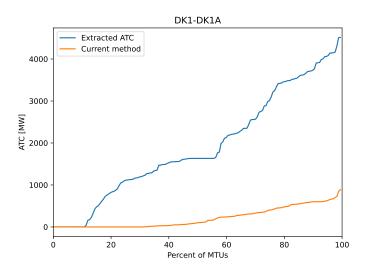


DK1_DE-DK1 ATC duration curves



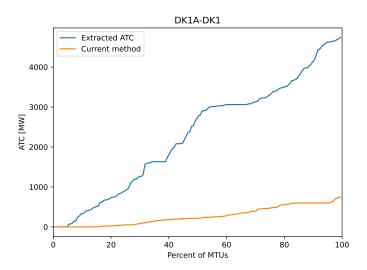


DK1-DK1A ATC duration curves



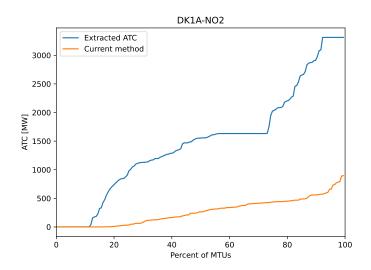


DK1A-DK1 ATC duration curves



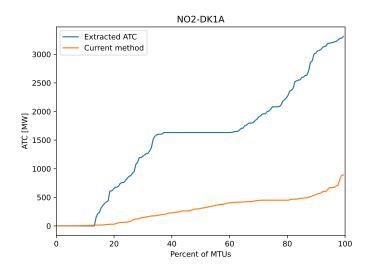


DK1A-NO2 ATC duration curves



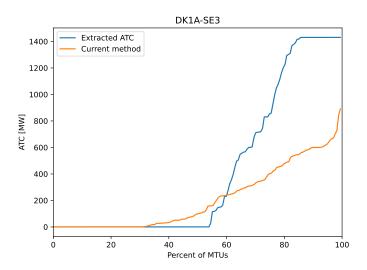


NO2-DK1A ATC duration curves



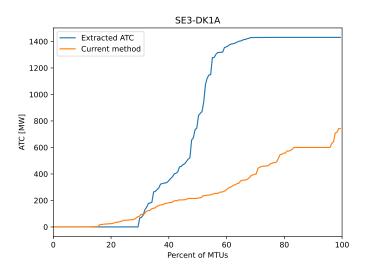


DK1A-SE3 ATC duration curves



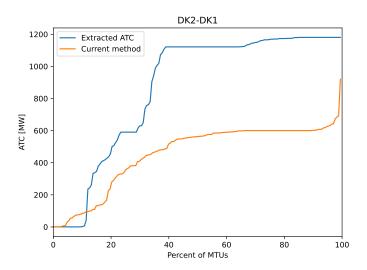


SE3-DK1A ATC duration curves



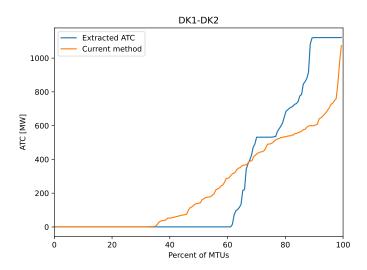


DK2-DK1 ATC duration curves



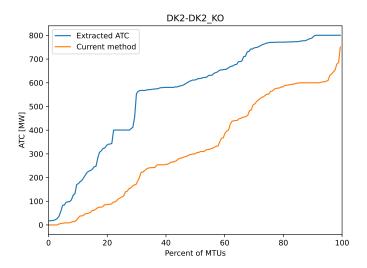


DK1-DK2 ATC duration curves



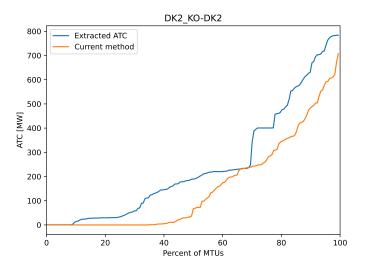


DK2-DK2 KO ATC duration curves



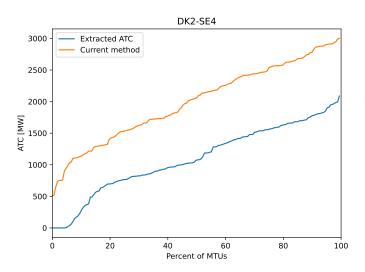


DK2_KO-DK2 ATC duration curves



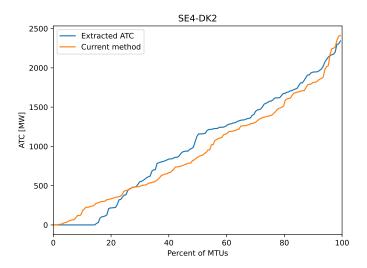


DK2-SE4 ATC duration curves



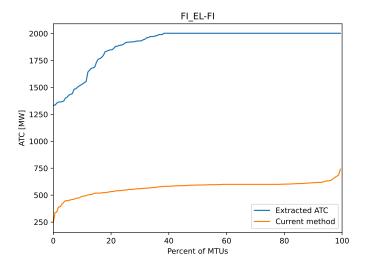


SE4-DK2 ATC duration curves



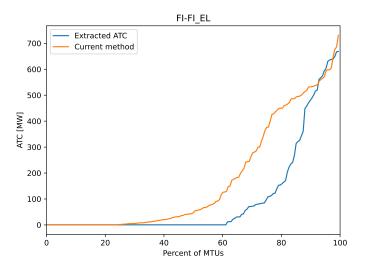


FI_EL-FI ATC duration curves



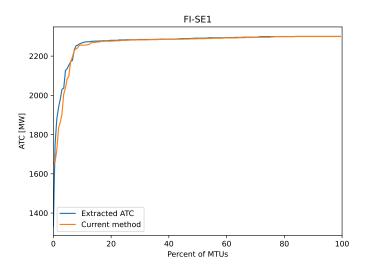


FI-FI EL ATC duration curves



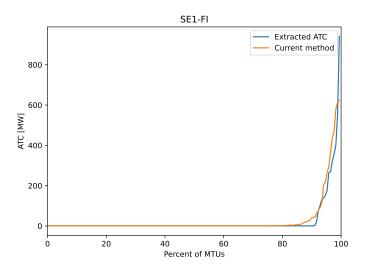


FI-SE1 ATC duration curves



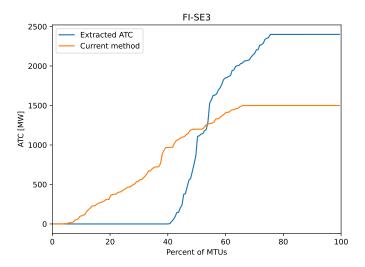


SE1-FI ATC duration curves



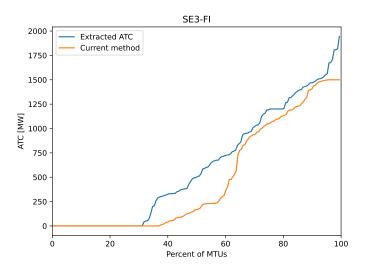


FI-SE3 ATC duration curves



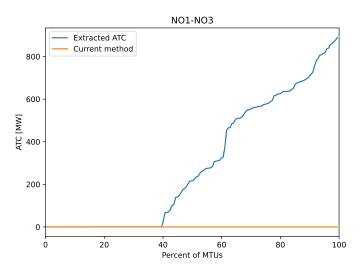


SE3-FI ATC duration curves



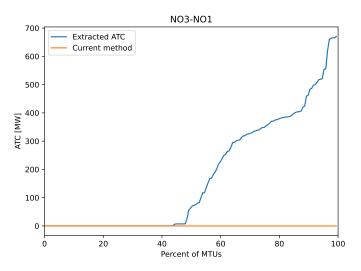


NO1-NO3 ATC duration curves



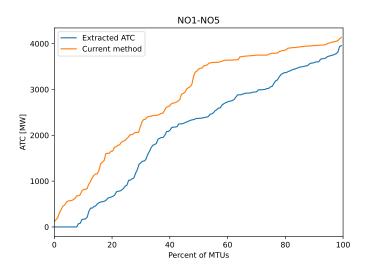


NO3-NO1 ATC duration curves



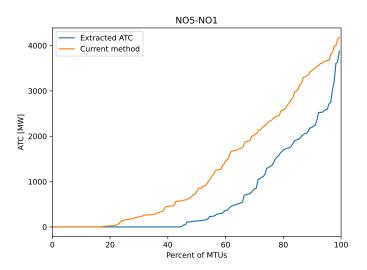


NO1-NO5 ATC duration curves



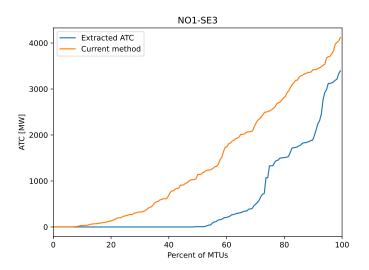


NO5-NO1 ATC duration curves



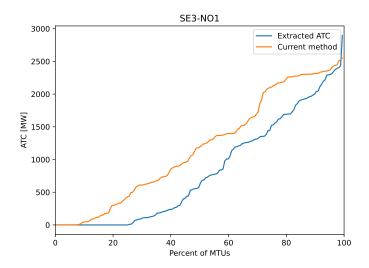


NO1-SE3 ATC duration curves



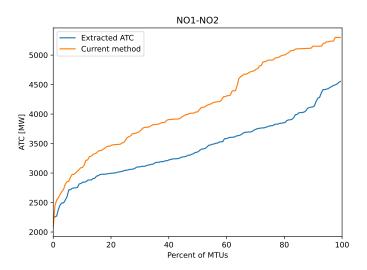


SE3-NO1 ATC duration curves



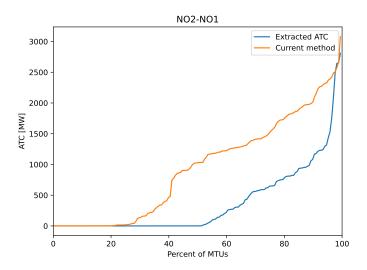


NO1-NO2 ATC duration curves



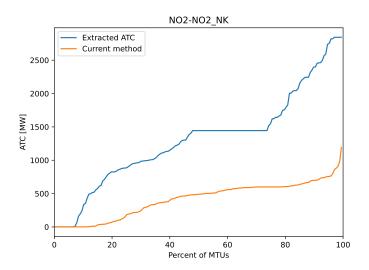


NO2-NO1 ATC duration curves



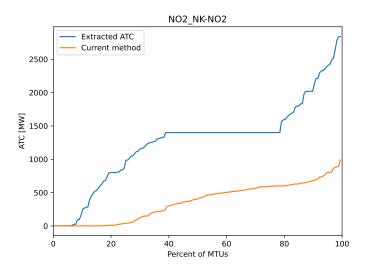


NO2-NO2 NK ATC duration curves



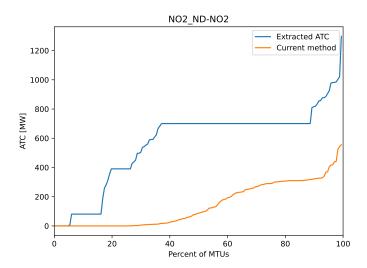


NO2_NK-NO2 ATC duration curves



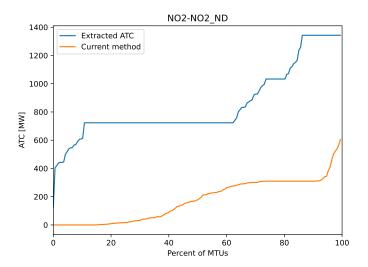


NO2_ND-NO2 ATC duration curves



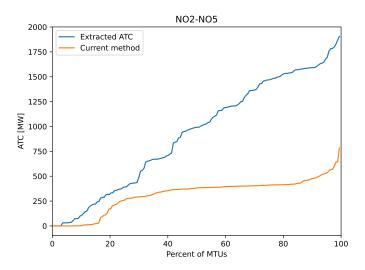


NO2-NO2 ND ATC duration curves



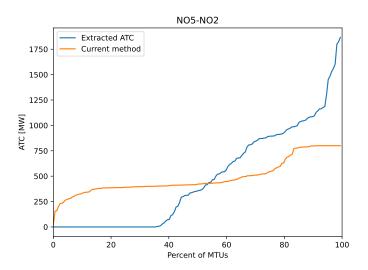


NO2-NO5 ATC duration curves



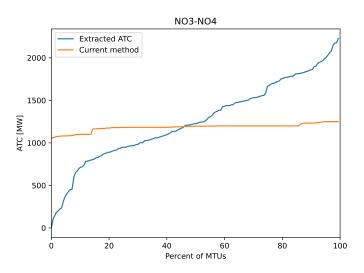


NO5-NO2 ATC duration curves



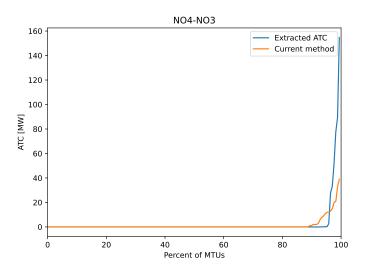


NO3-NO4 ATC duration curves



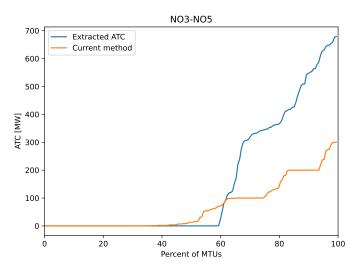


NO4-NO3 ATC duration curves



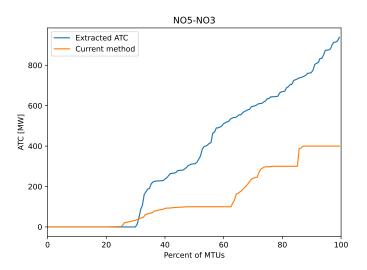


NO3-NO5 ATC duration curves



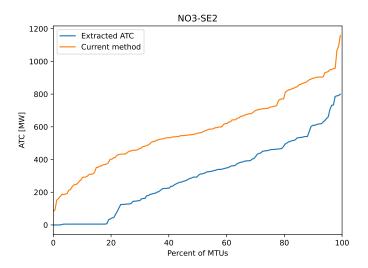


NO5-NO3 ATC duration curves



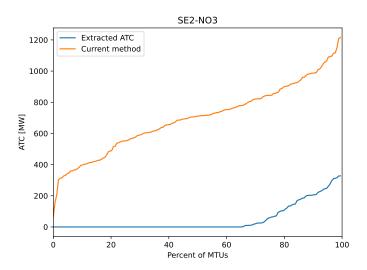


NO3-SE2 ATC duration curves



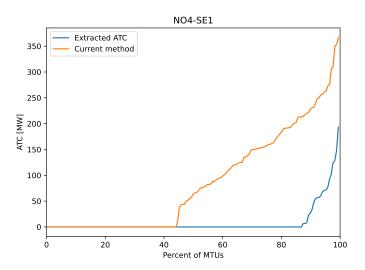


SE2-NO3 ATC duration curves



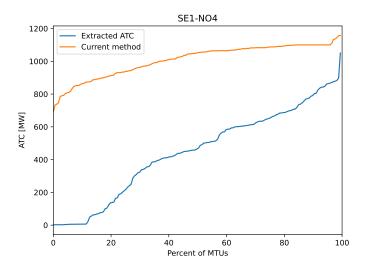


NO4-SE1 ATC duration curves



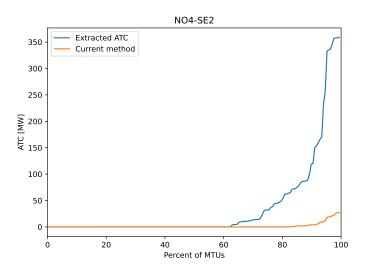


SE1-NO4 ATC duration curves



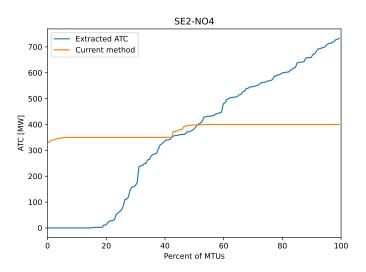


NO4-SE2 ATC duration curves



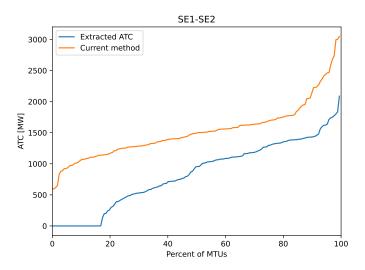


SE2-NO4 ATC duration curves



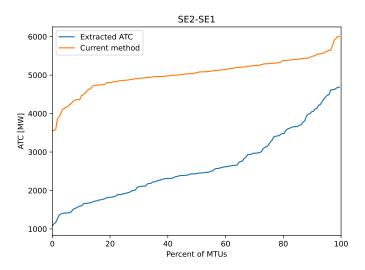


SE1-SE2 ATC duration curves



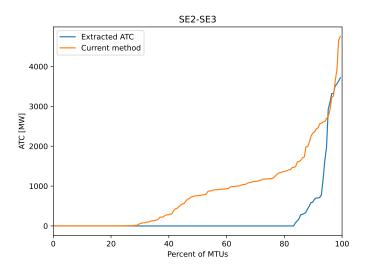


SE2-SE1 ATC duration curves



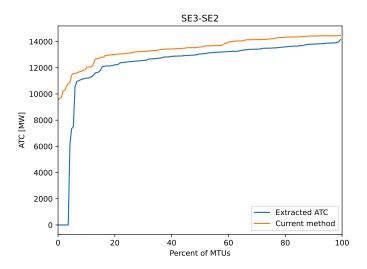


SE2-SE3 ATC duration curves



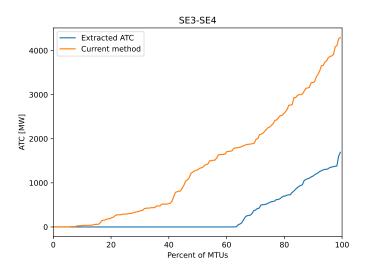


SE3-SE2 ATC duration curves



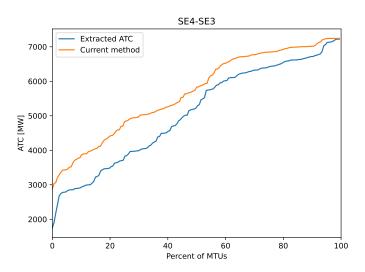


SE3-SE4 ATC duration curves



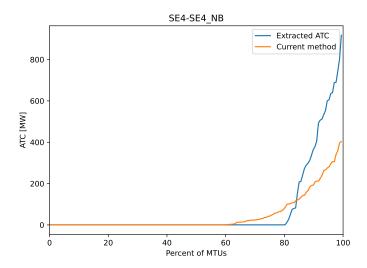


SE4-SE3 ATC duration curves



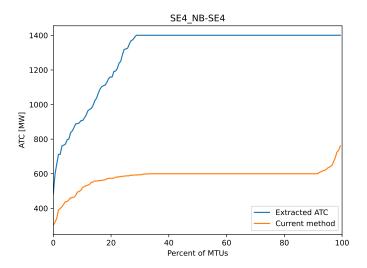


SE4-SE4 NB ATC duration curves



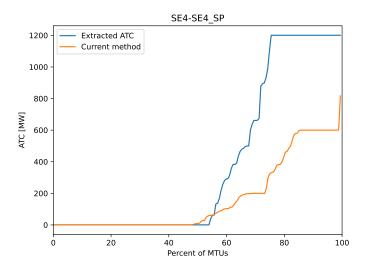


SE4_NB-SE4 ATC duration curves





SE4-SE4_SP ATC duration curves





SE4_SP-SE4 ATC duration curves

