

2024W12 ATC Extraction Results

Nordic RCC

April 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.

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

Bidding zone	#MTUs at max Export	#MTUs at max Import	#MTUs at lock-in
DK1	0	0	0
DK2	0	0	0
SE1	1	0	0
SE2	0	0	0
SE3	0	0	0
SE4	0	0	0
NO1	0	0	0
NO2	0	0	0
NO3	0	10	0
NO4	58	0	0
NO5	6	3	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.

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

Border	#MTUs at lock-in
DK1-DK1_CO	13
DK1_CO-DK1	13
DK1-DK1_DE	13
DK1_DE-DK1	13
DK1-DK1A	13
DK1A-DK1	13
DK1A-NO2	13
NO2-DK1A	13
DK1A-SE3	13
SE3-DK1A	13
DK2-DK1	15
DK1-DK2	15

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.

Border	#MTUs at lock-in
DK2-DK2_KO	13
DK2_KO-DK2	13
DK2-SE4	13
SE4-DK2	13
FI_EL-FI	13
FI-FI_EL	13
FI-SE1	13
SE1-FI	13
FI-SE3	13
SE3-FI	13
NO1-NO3	13
NO3-NO1	13

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.

Border	#MTUs at lock-in
NO1-NO5	13
NO5-NO1	13
NO1-SE3	13
SE3-NO1	13
NO1-NO2	13
NO2-NO1	13
NO2-NO2_NK	13
NO2_NK-NO2	13
NO2_ND-NO2	13
NO2-NO2_ND	13
NO2-NO5	13
NO5-NO2	13

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.

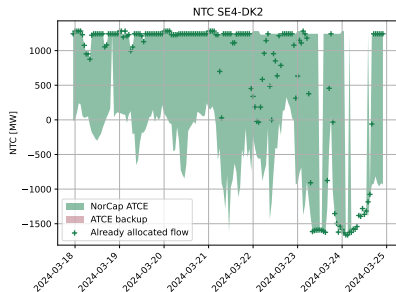
Border	#MTUs at lock-in
NO3-NO4	13
NO4-NO3	13
NO3-NO5	13
NO5-NO3	13
NO3-SE2	13
SE2-NO3	13
NO4-SE1	13
SE1-NO4	13
NO4-SE2	13
SE2-NO4	13
SE1-SE2	13
SE2-SE1	13

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.

Border	#MTUs at lock-in
SE2-SE3	13
SE3-SE2	13
SE3-SE4	13
SE4-SE3	13
SE4-SE4_NB	29
SE4_NB-SE4	29
SE4-SE4_SP	24
SE4_SP-SE4	24

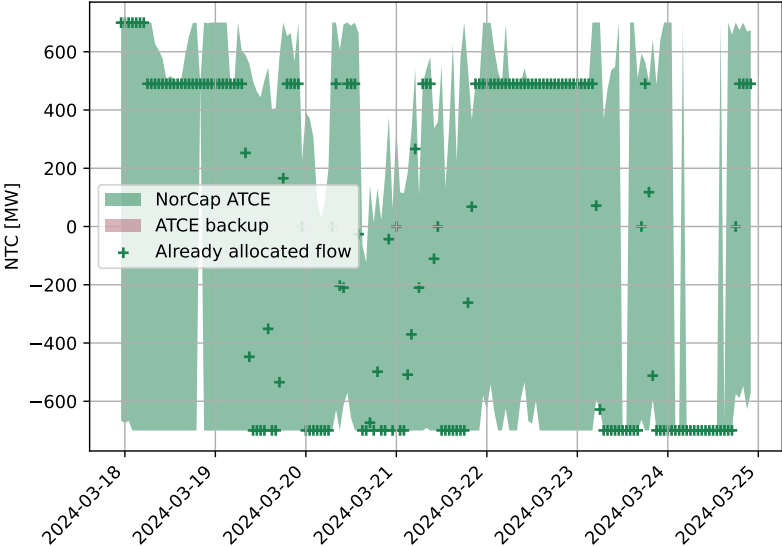
Border NTC plots - Reader's guide



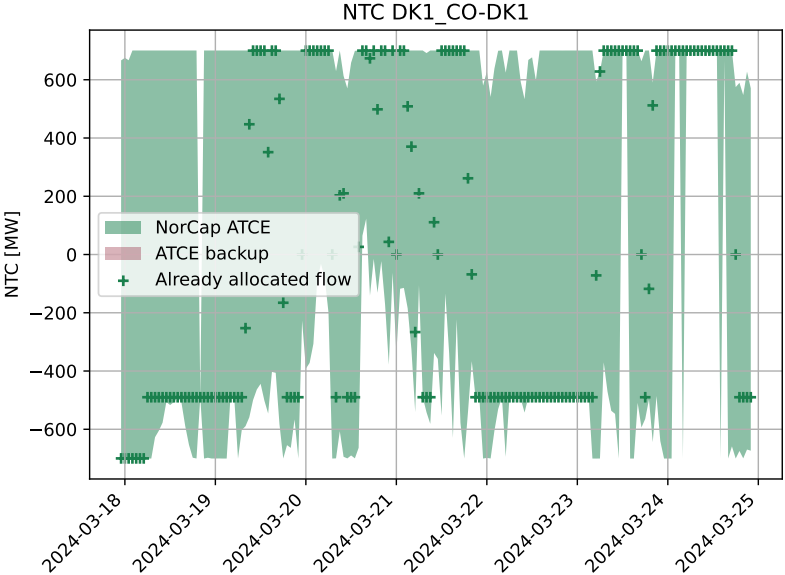
The colored area represents the possible exchange on this border and direction. The cross marks the simulated day ahead market coupling flows. Any colored area above the cross, means that intraday market will be able to increase exchange over the day ahead market coupling flows. Any colored area below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

DK1-DK1_CO

NTC DK1-DK1_CO

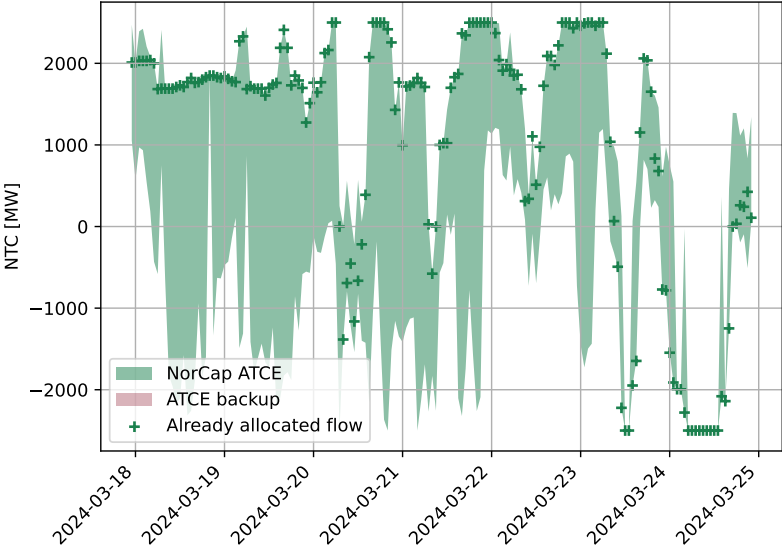


DK1_CO-DK1



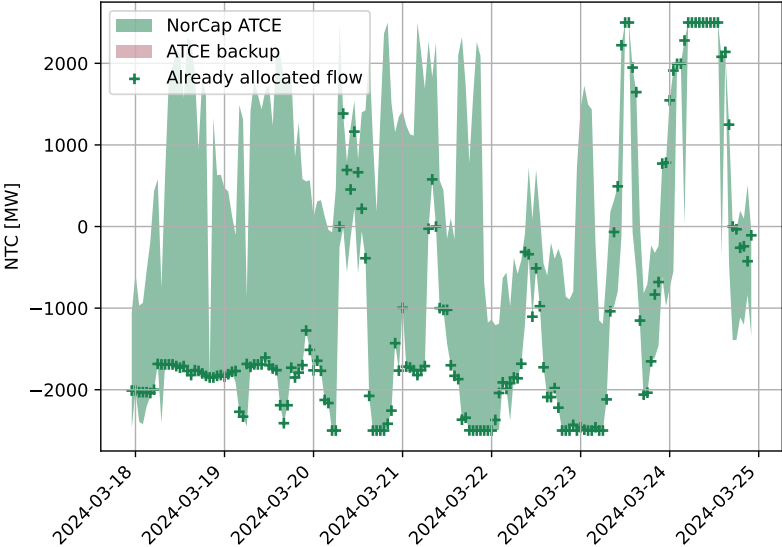
DK1-DK1_DE

NTC DK1-DK1_DE



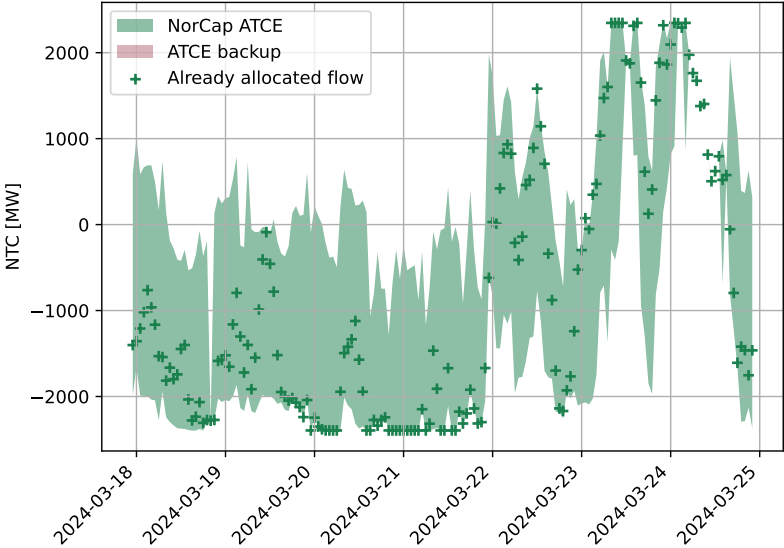
DK1_DE-DK1

NTC DK1_DE-DK1



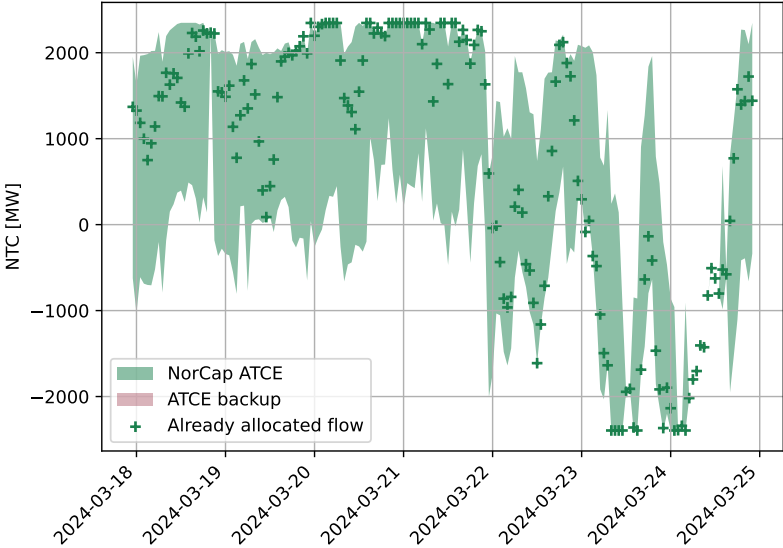
DK1-DK1A

NTC DK1-DK1A



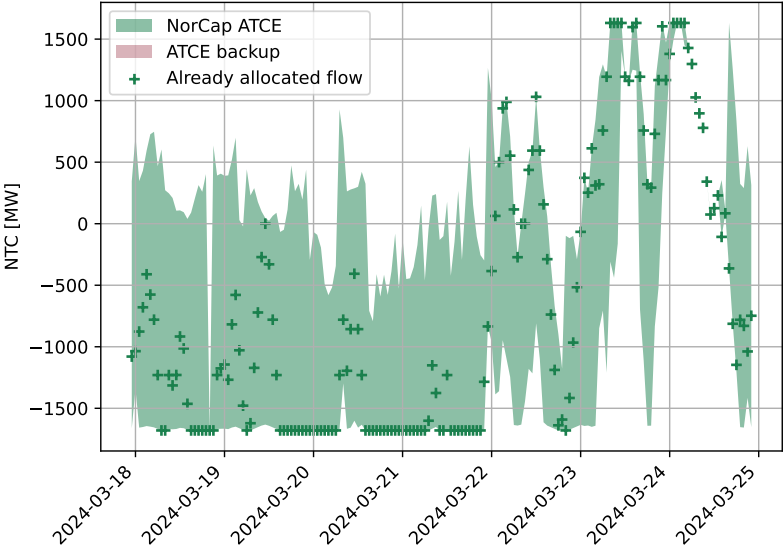
DK1A-DK1

NTC DK1A-DK1

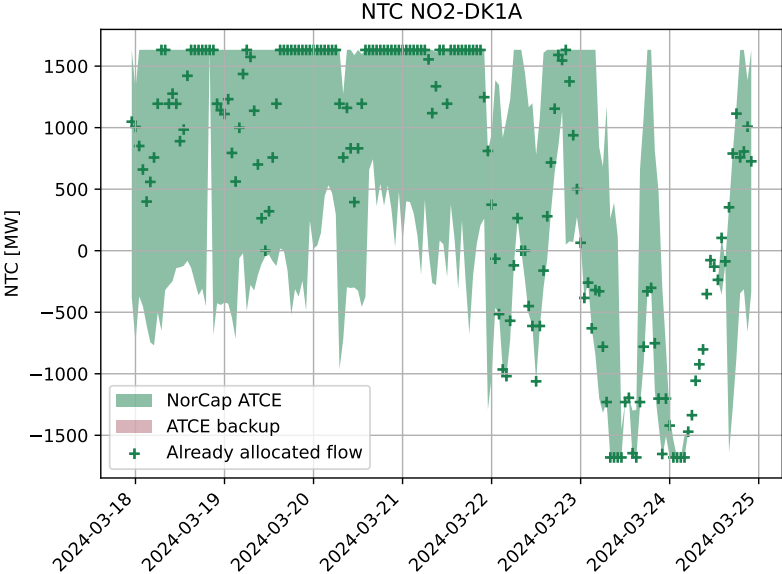


DK1A-NO2

NTC DK1A-NO2

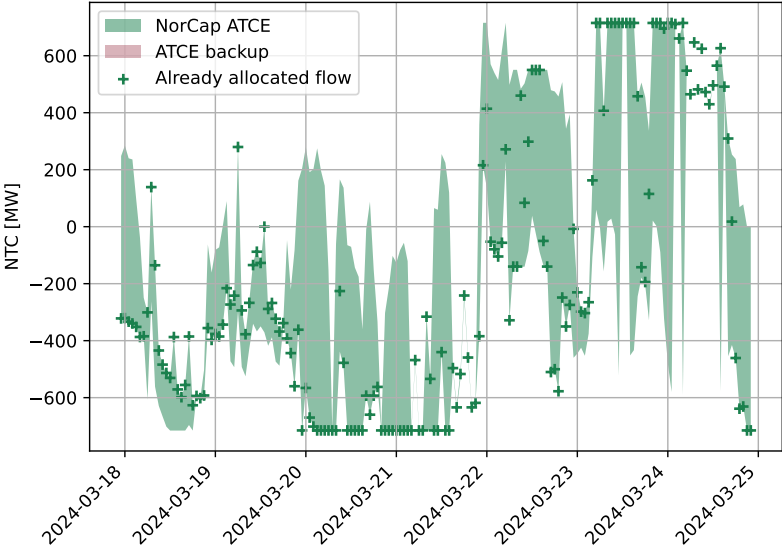


NO2-DK1A



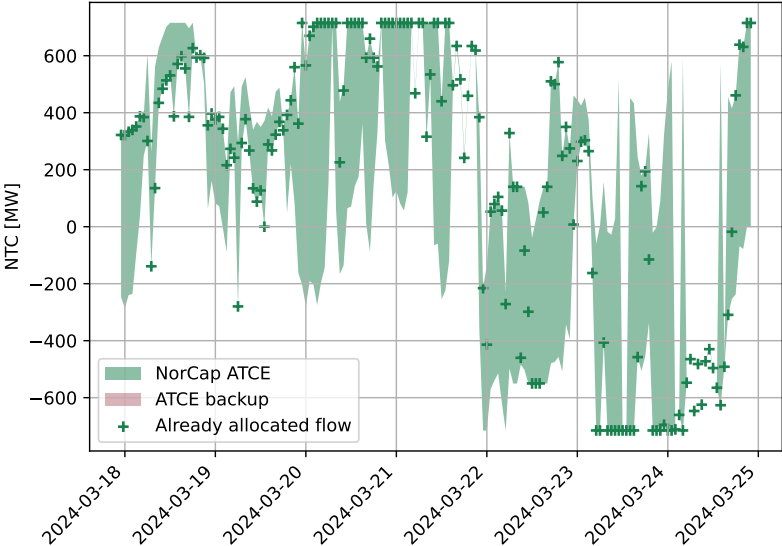
DK1A-SE3

NTC DK1A-SE3



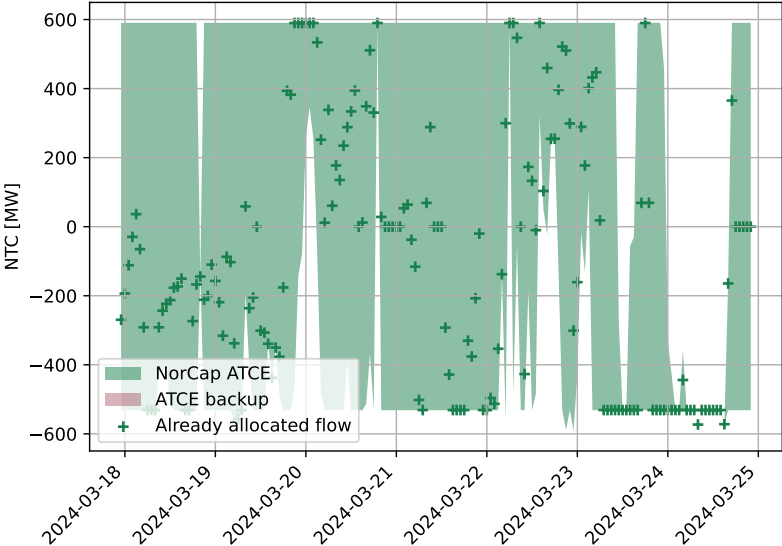
SE3-DK1A

NTC SE3-DK1A



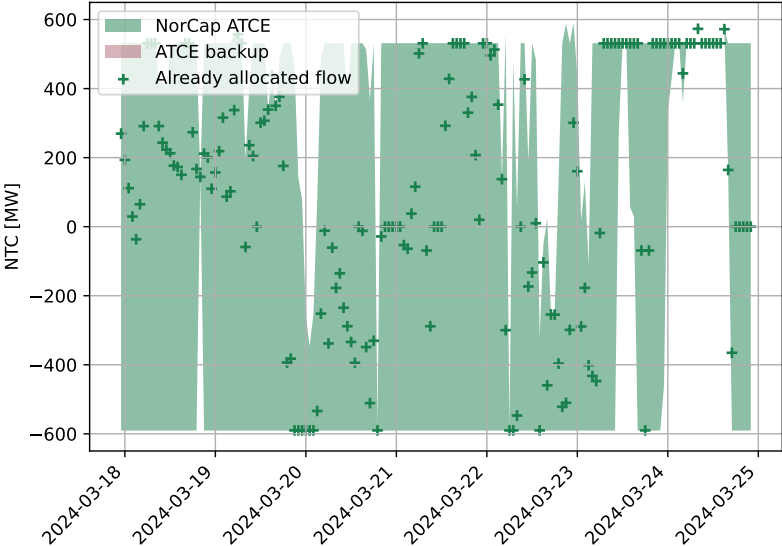
DK2-DK1

NTC DK2-DK1



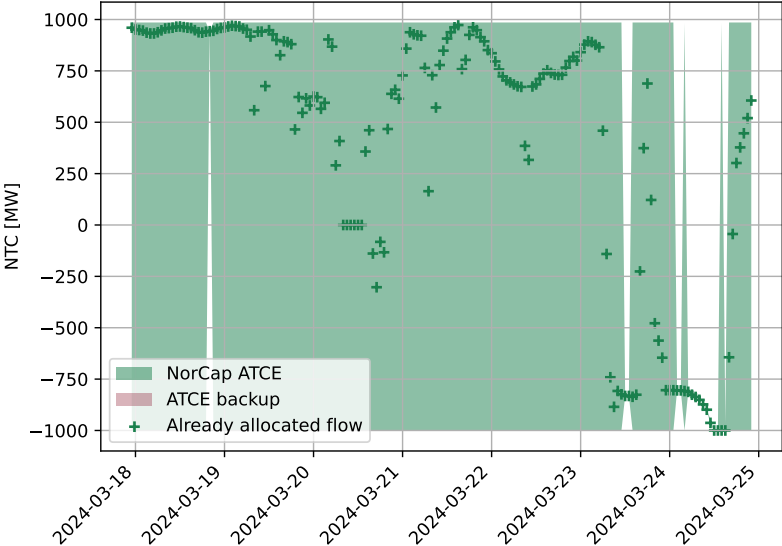
DK1-DK2

NTC DK1-DK2



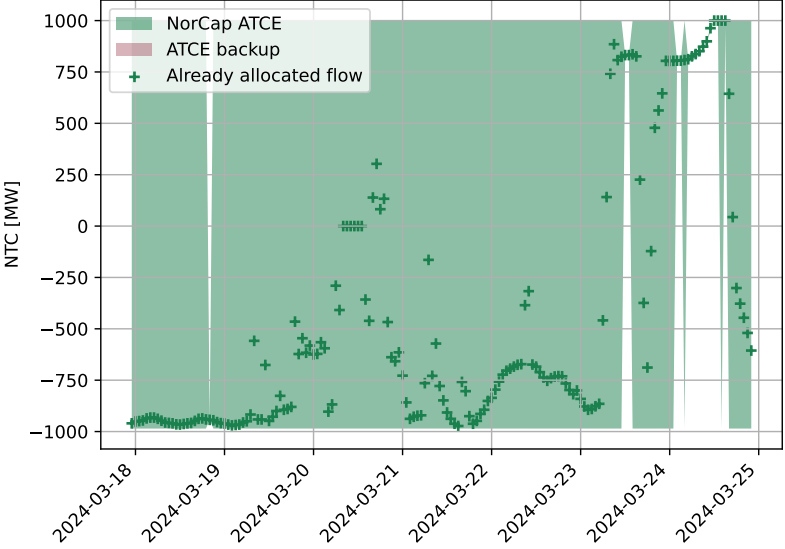
DK2-DK2_KO

NTC DK2-DK2_KO



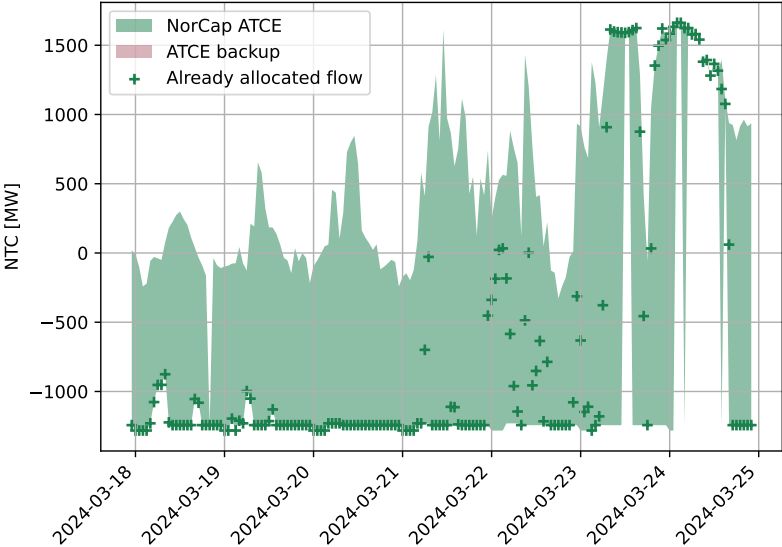
DK2_KO-DK2

NTC DK2_KO-DK2



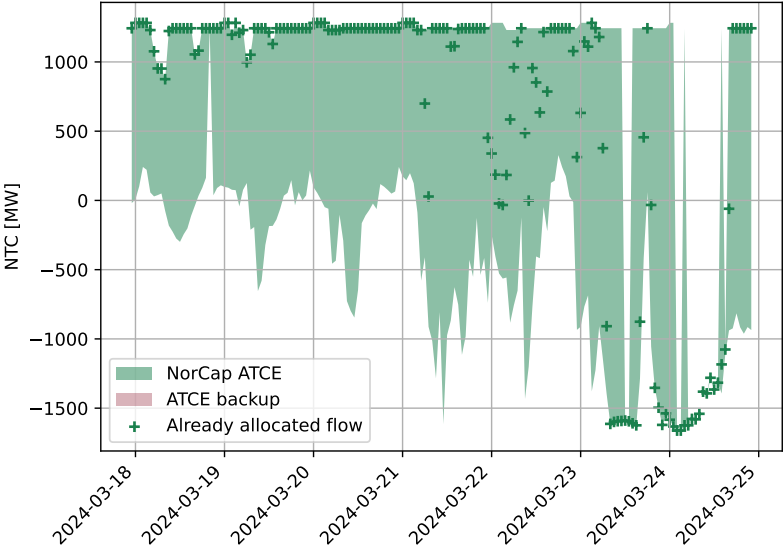
DK2-SE4

NTC DK2-SE4

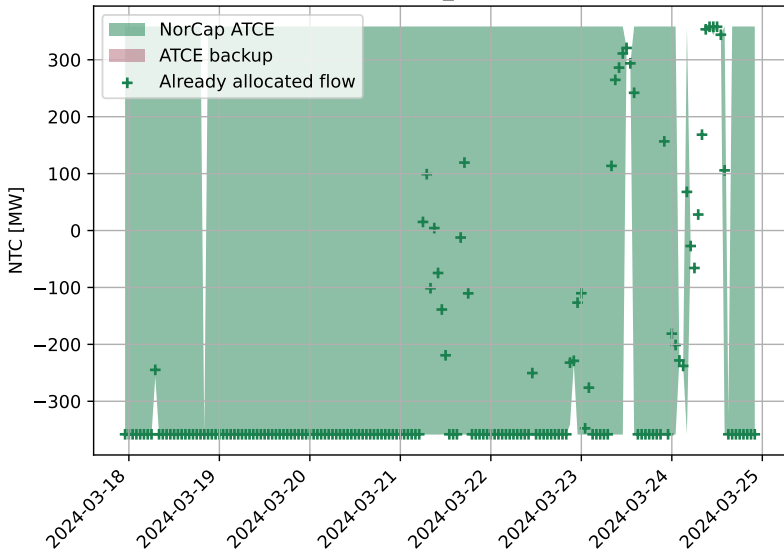


SE4-DK2

NTC SE4-DK2

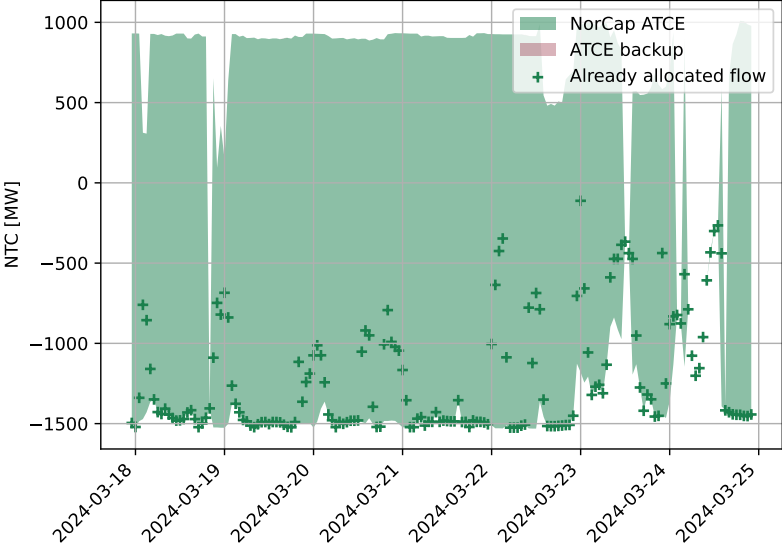


NTC FI_EL-FI

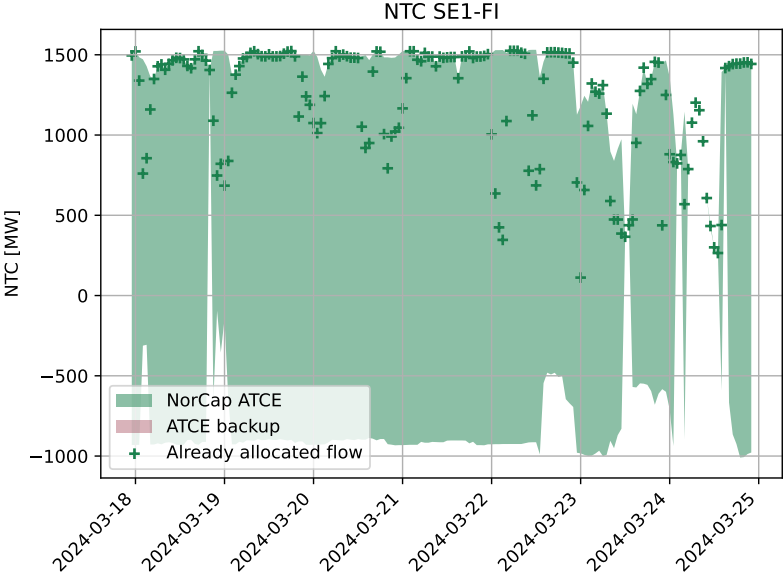


FI-SE1

NTC FI-SE1

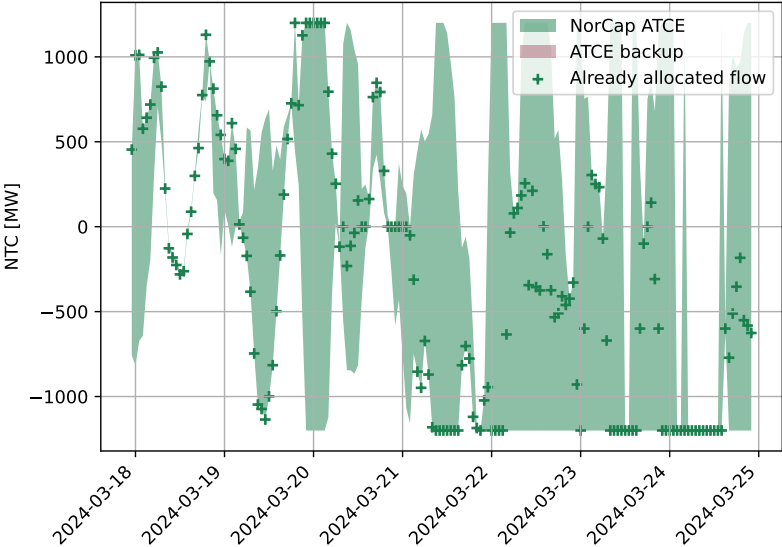


SE1-FI



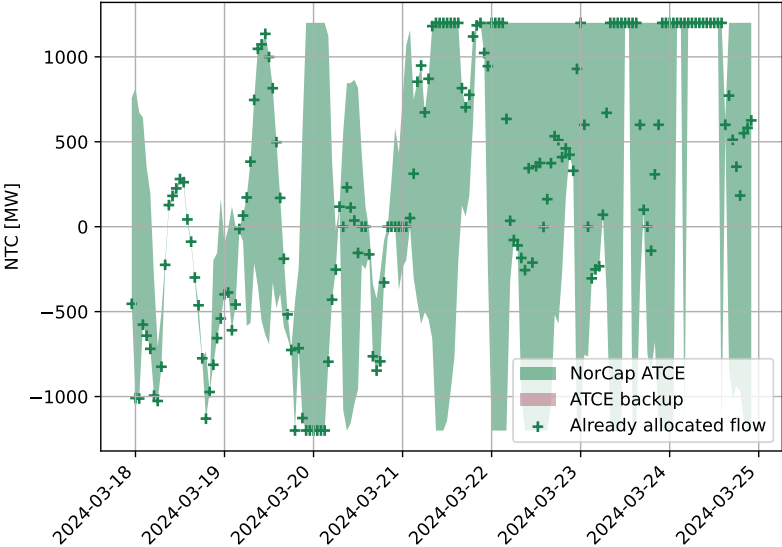
FI-SE3

NTC FI-SE3



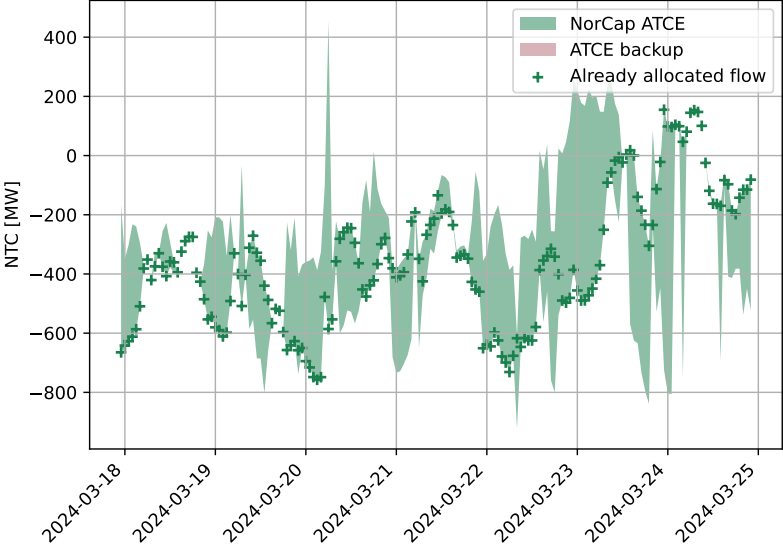
SE3-FI

NTC SE3-FI



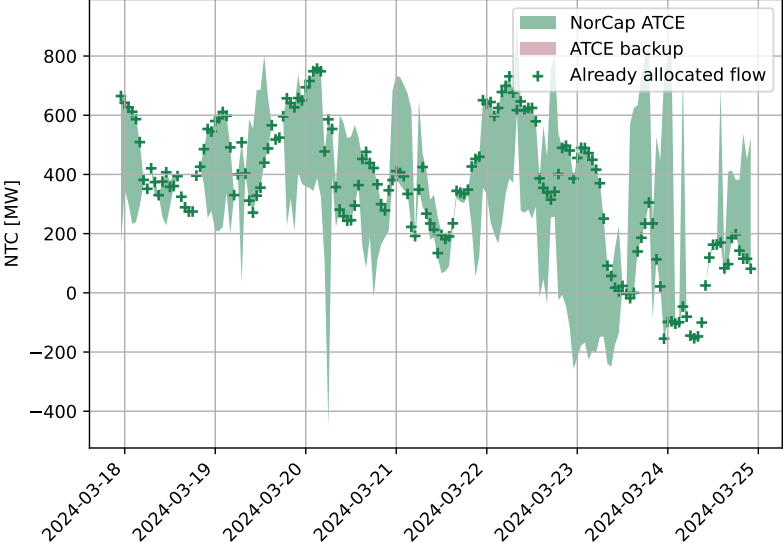
NO1-NO3

NTC NO1-NO3



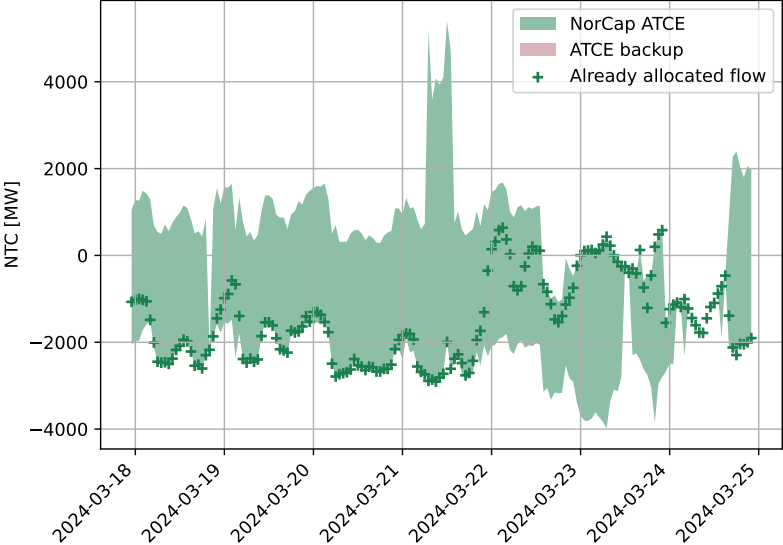
NO3-NO1

NTC NO3-NO1



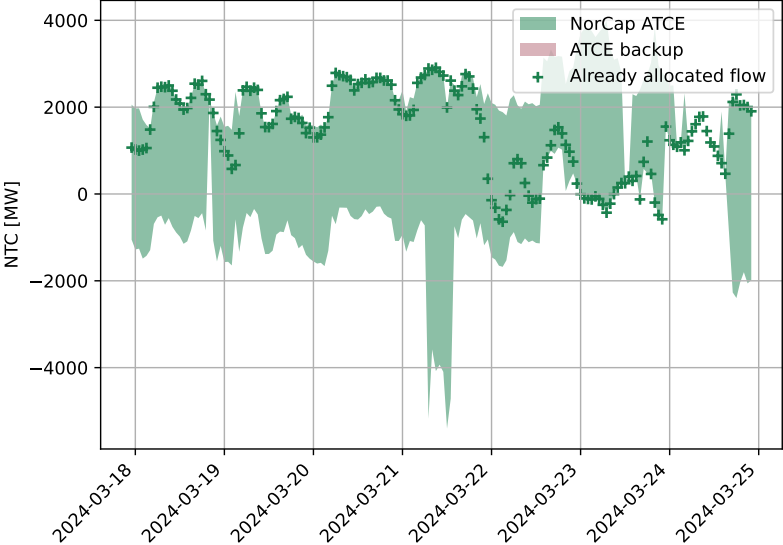
NO1-NO5

NTC NO1-NO5



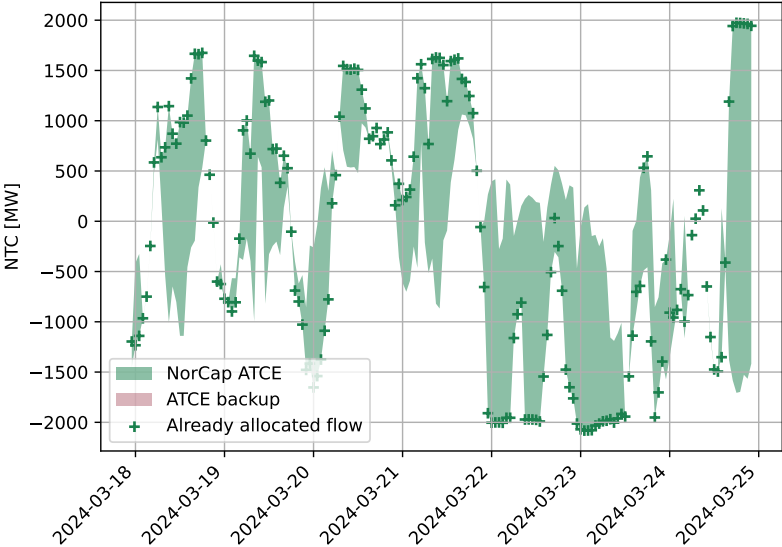
NO5-NO1

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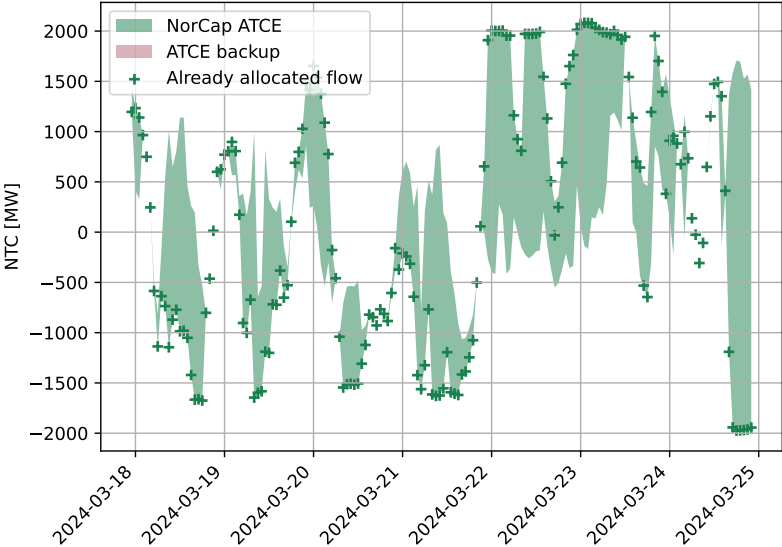
NO1-SE3

NTC NO1-SE3



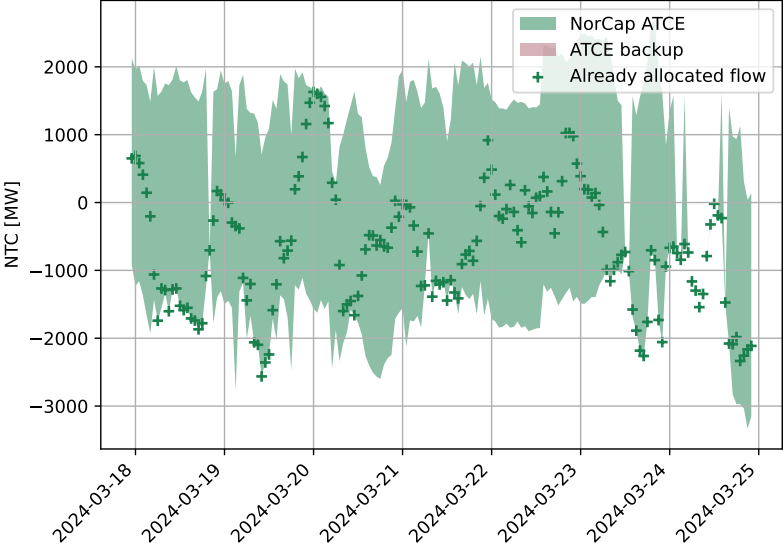
SE3-NO1

NTC SE3-NO1



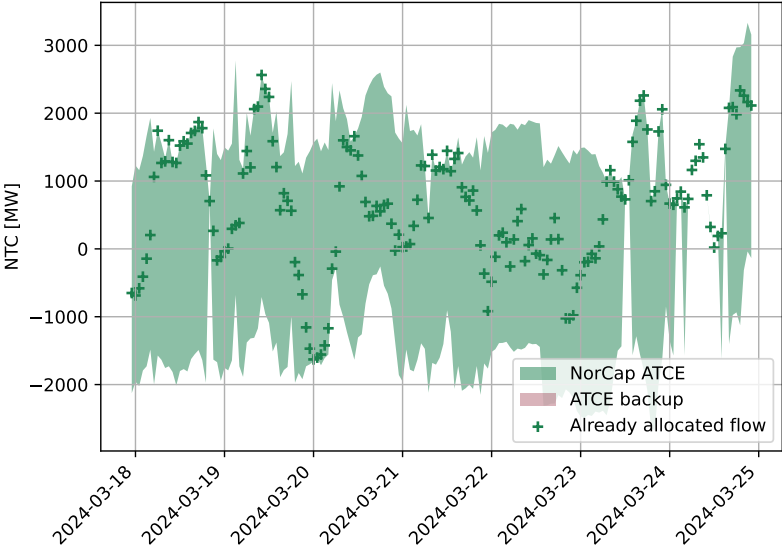
NO1-NO2

NTC NO1-NO2



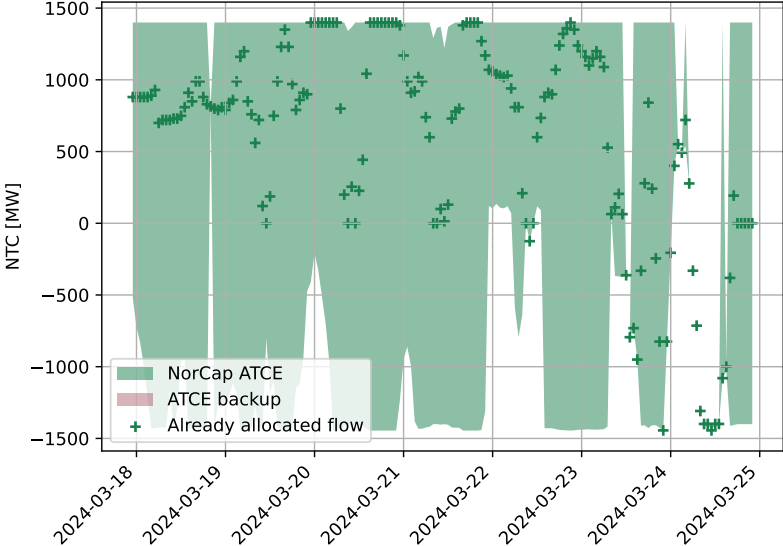
NO2-NO1

NTC NO2-NO1



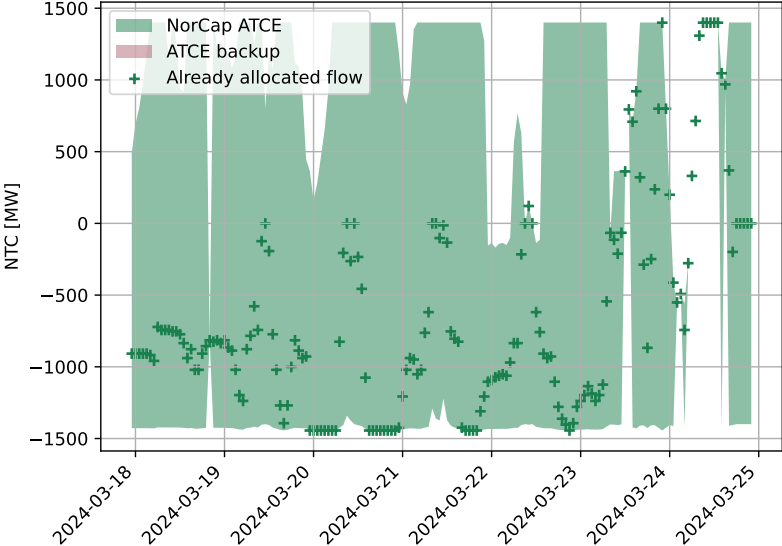
NO2-NO2_NK

NTC NO2-NO2_NK

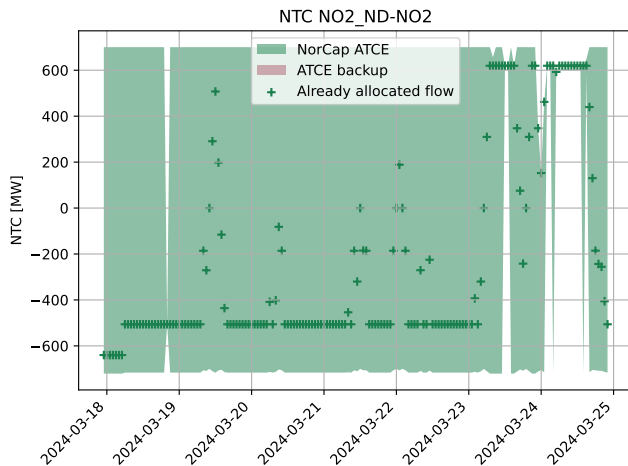


NO2_NK-NO2

NTC NO2_NK-NO2

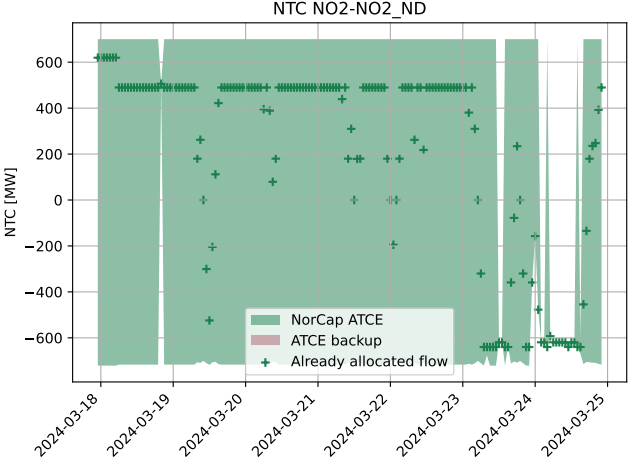


NO2_ND-NO2



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

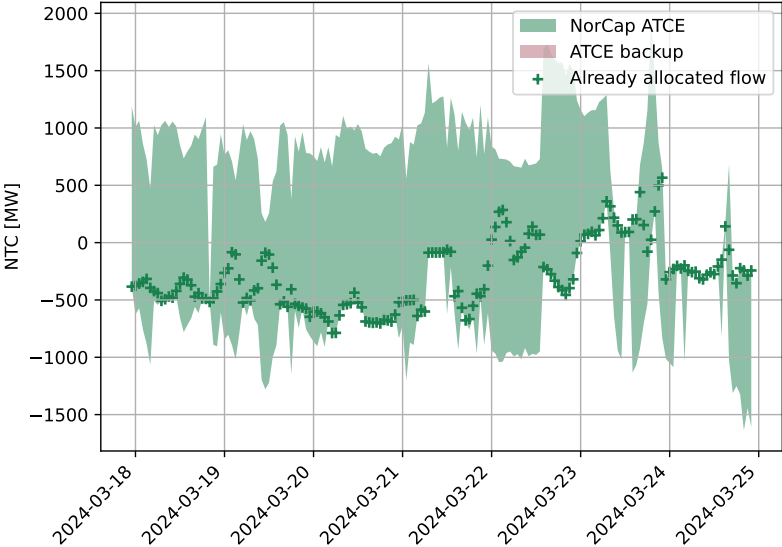
NO2-NO2_ND



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

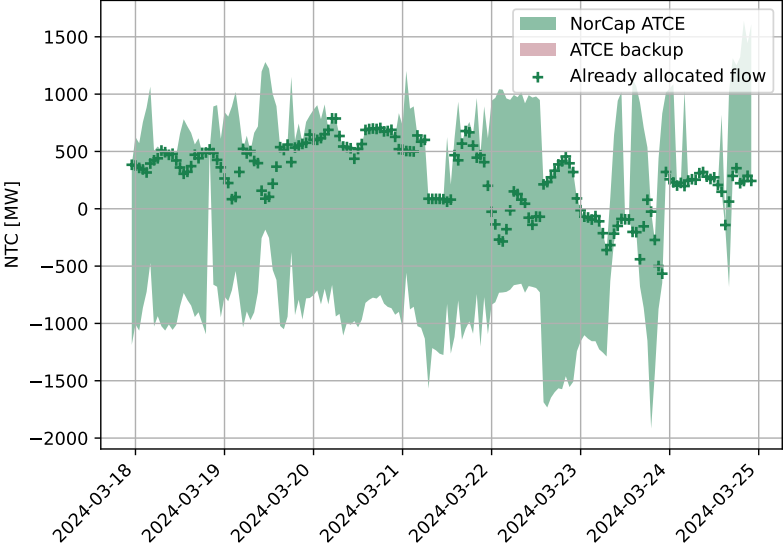
NO2-NO5

NTC NO2-NO5



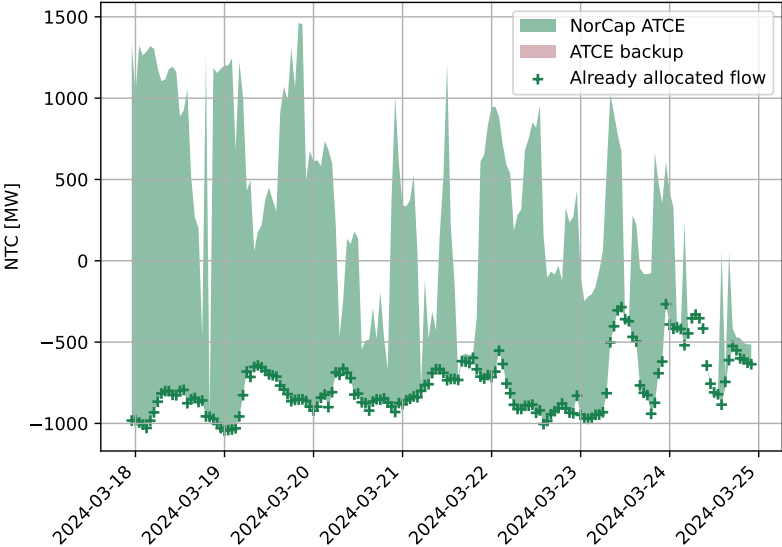
NO5-NO2

NTC NO5-NO2



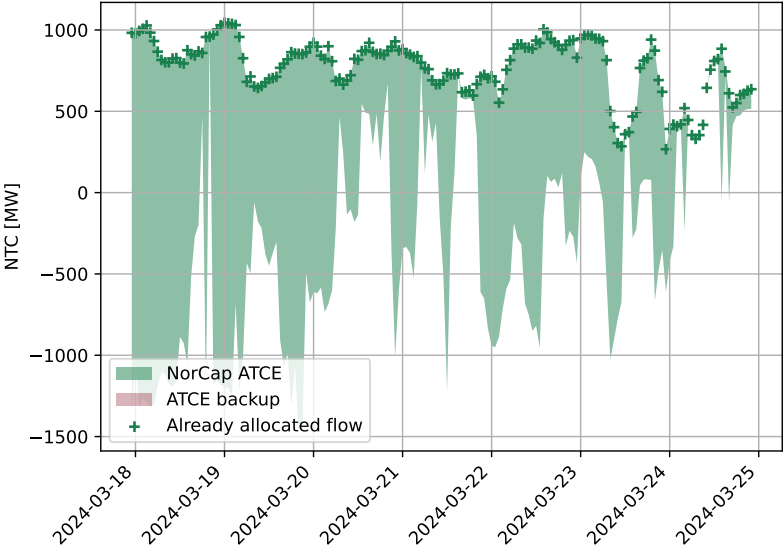
NO3-NO4

NTC NO3-NO4



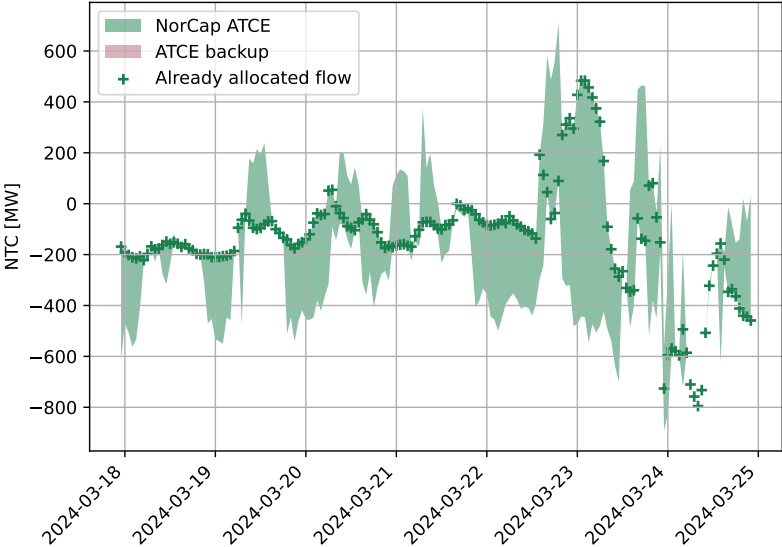
NO4-NO3

NTC NO4-NO3



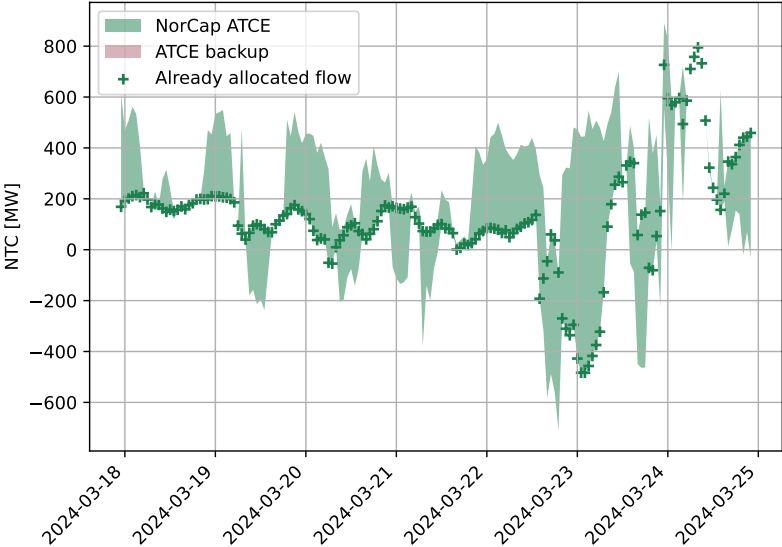
NO3-NO5

NTC NO3-NO5



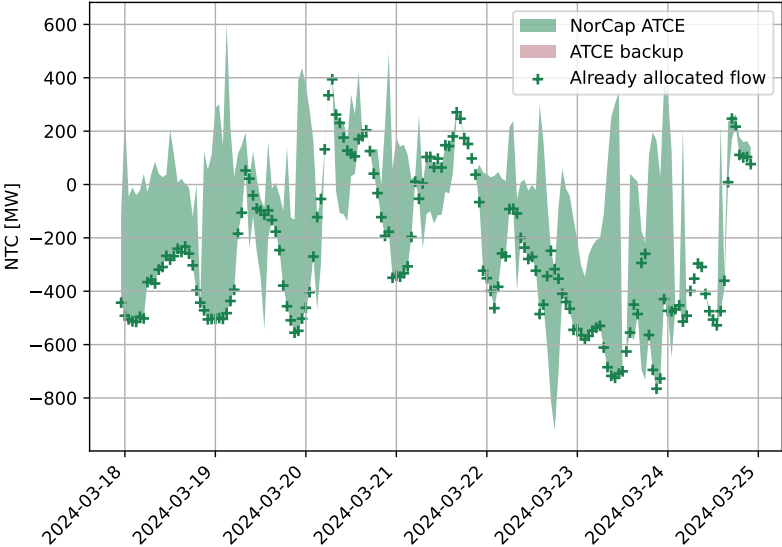
NO5-NO3

NTC NO5-NO3



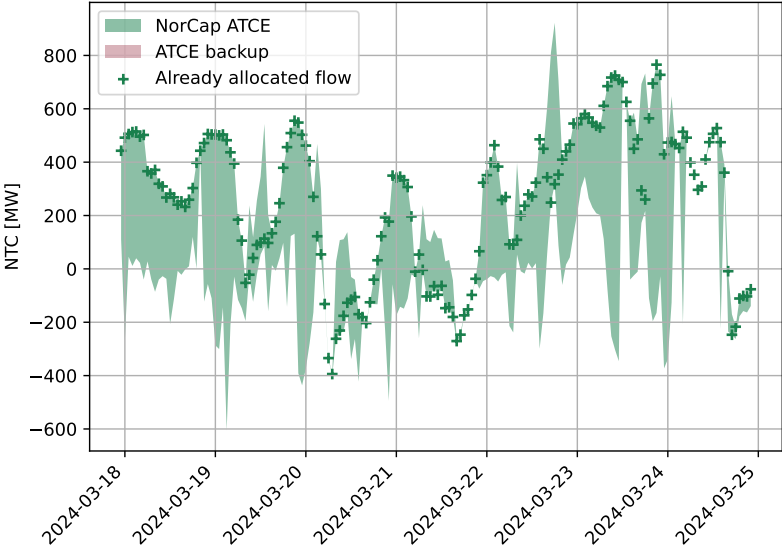
NO3-SE2

NTC NO3-SE2



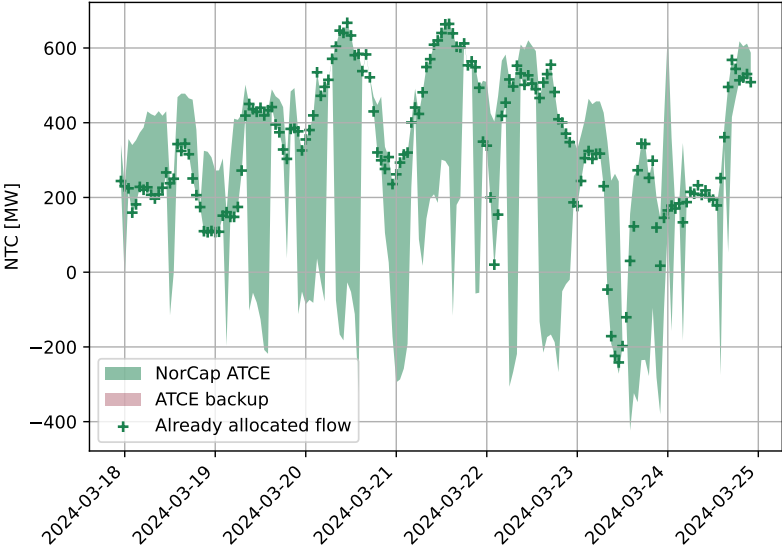
SE2-NO3

NTC SE2-NO3



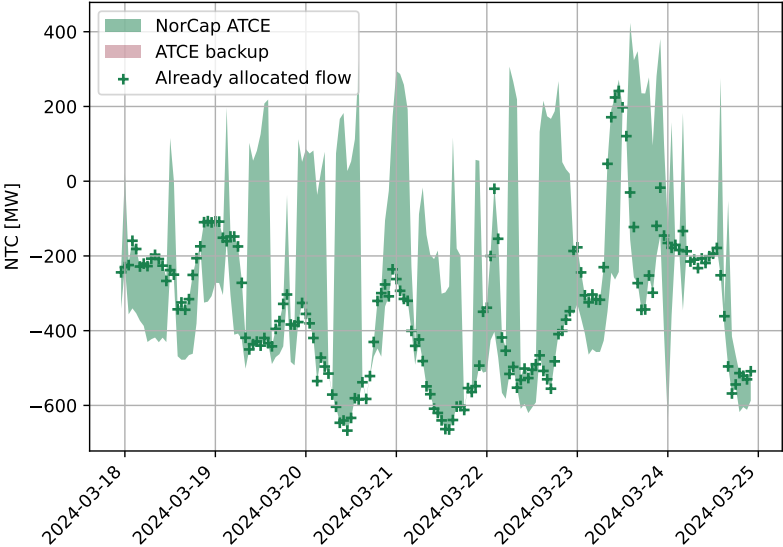
NO4-SE1

NTC NO4-SE1



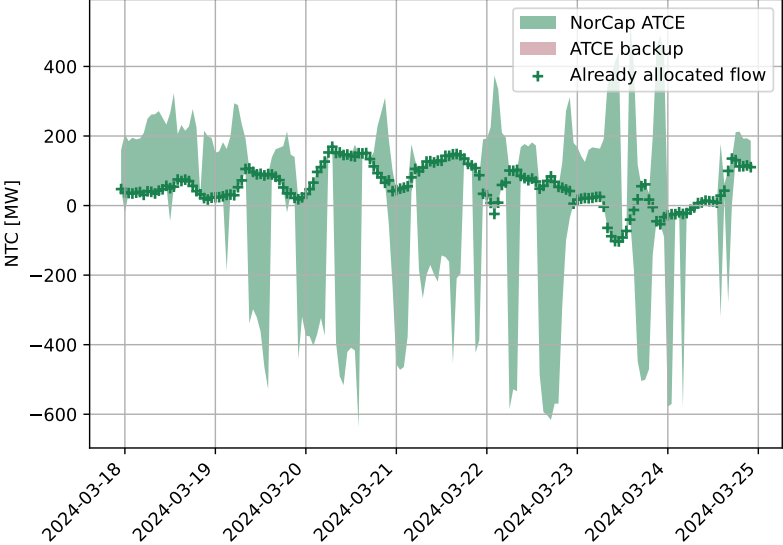
SE1-NO4

NTC SE1-NO4



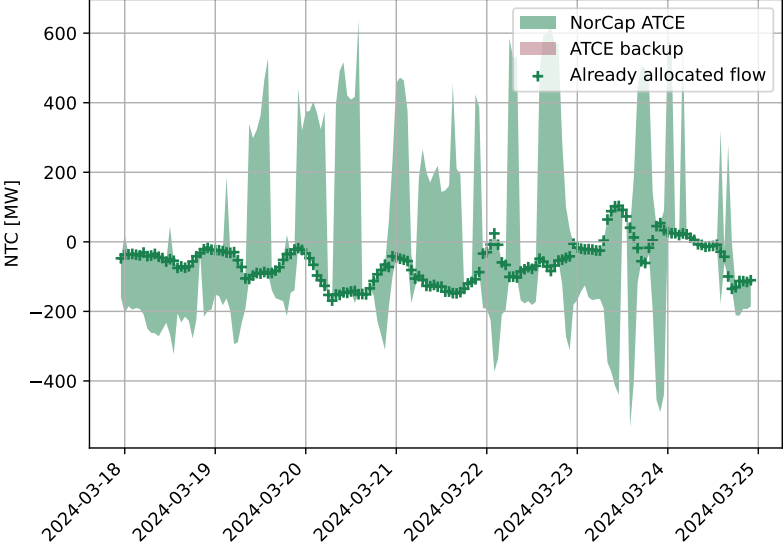
NO4-SE2

NTC NO4-SE2



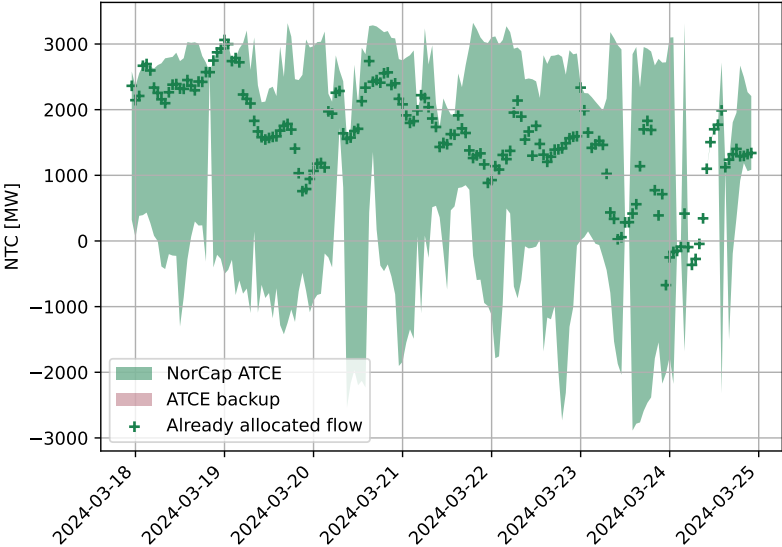
SE2-NO4

NTC SE2-NO4



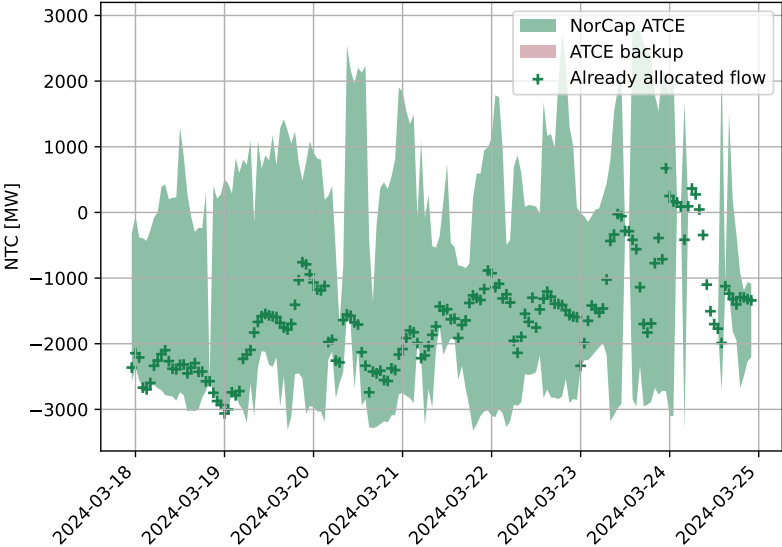
SE1-SE2

NTC SE1-SE2



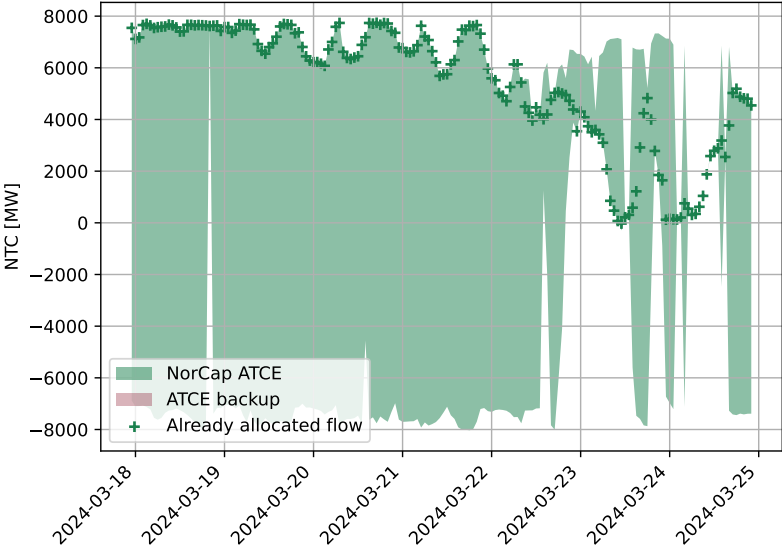
SE2-SE1

NTC SE2-SE1



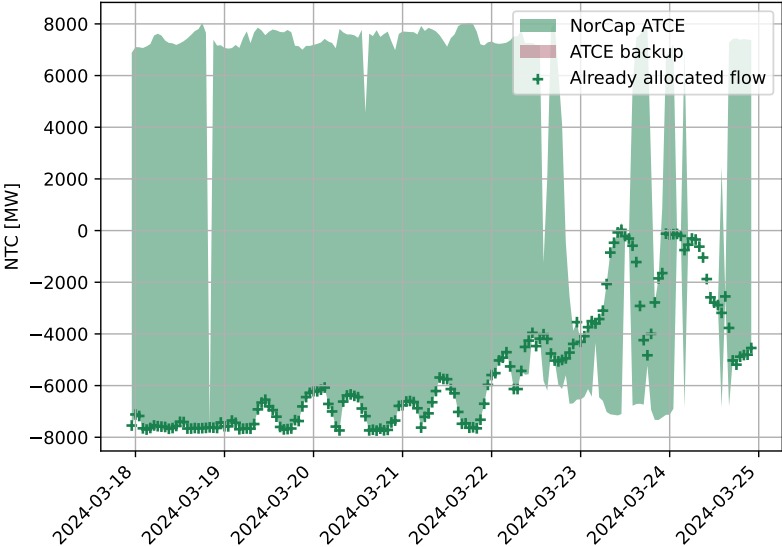
SE2-SE3

NTC SE2-SE3



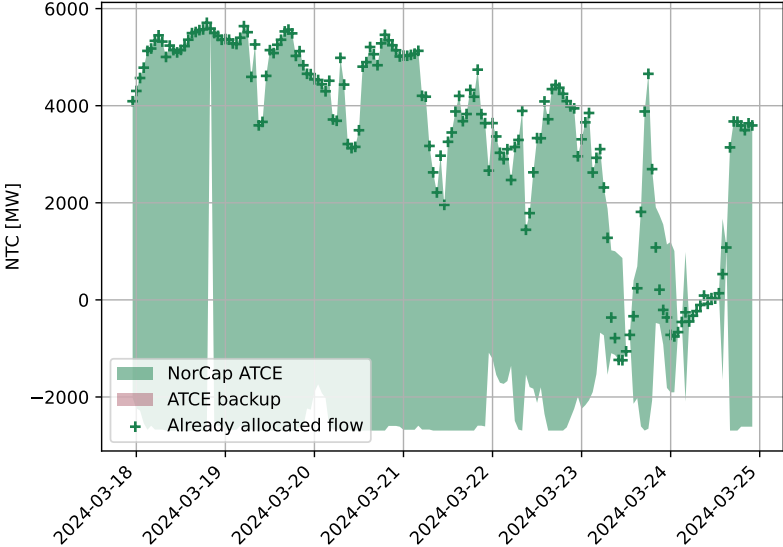
SE3-SE2

NTC SE3-SE2



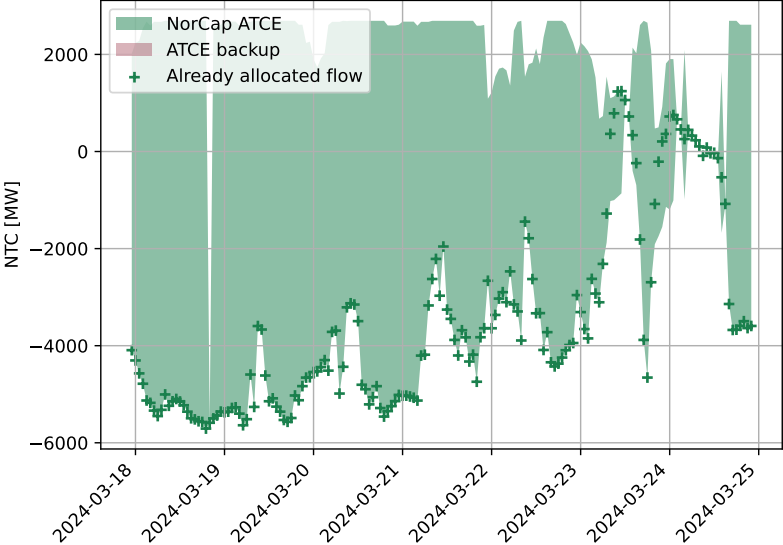
SE3-SE4

NTC SE3-SE4



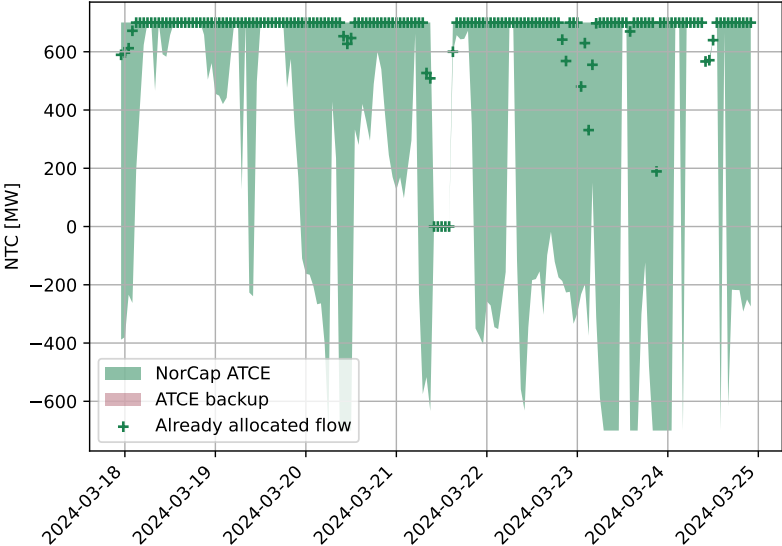
SE4-SE3

NTC SE4-SE3



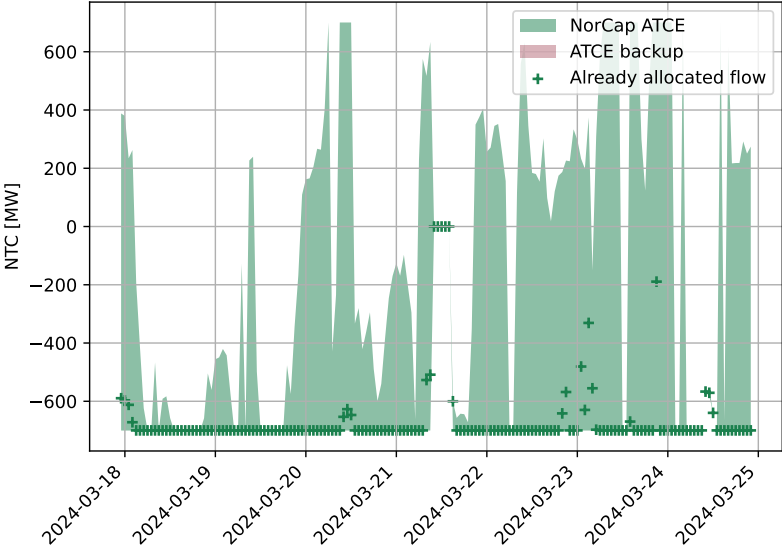
SE4-SE4_NB

NTC SE4-SE4_NB



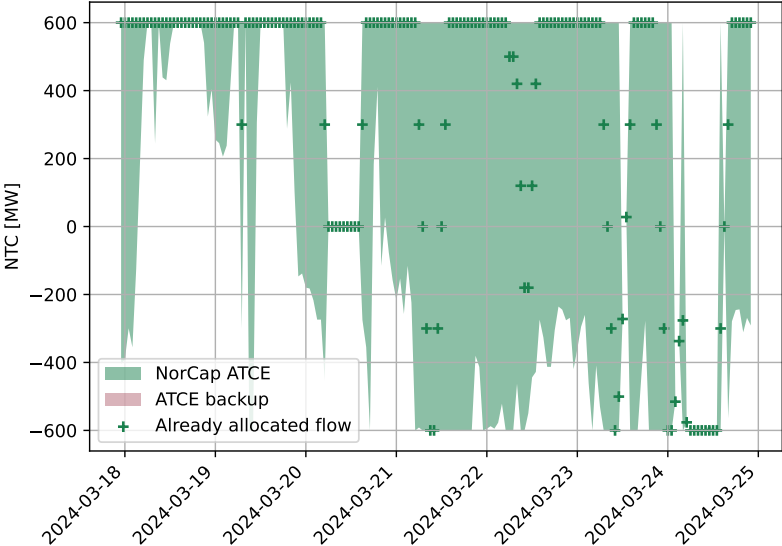
SE4_NB-SE4

NTC SE4_NB-SE4



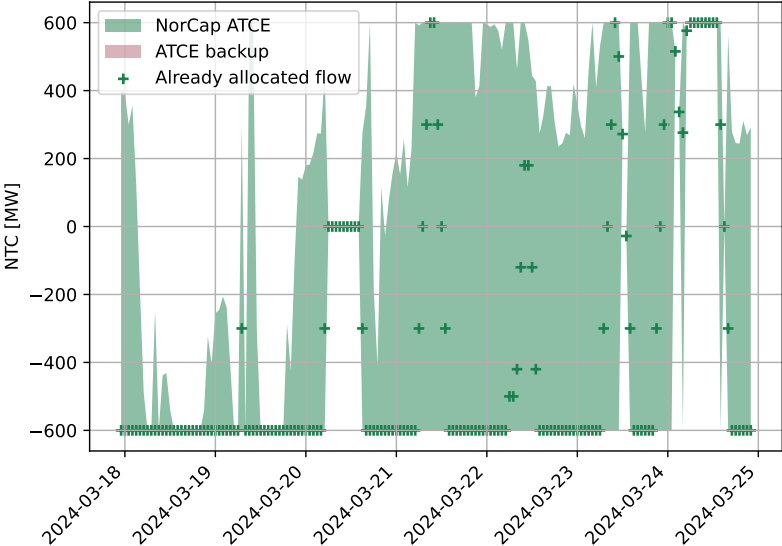
SE4-SE4_SP

NTC SE4-SE4_SP



SE4_SP-SE4

NTC SE4_SP-SE4

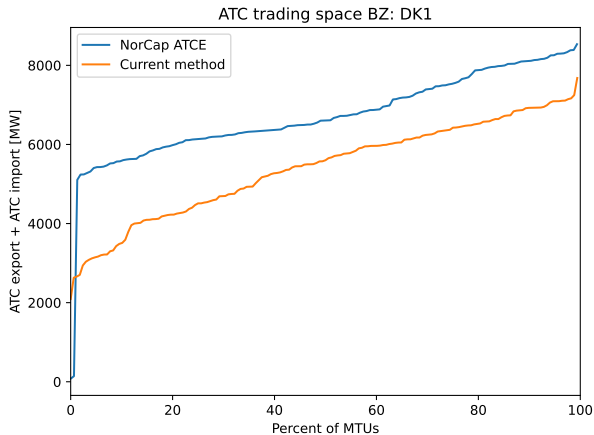


Bidding zone trading space

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.

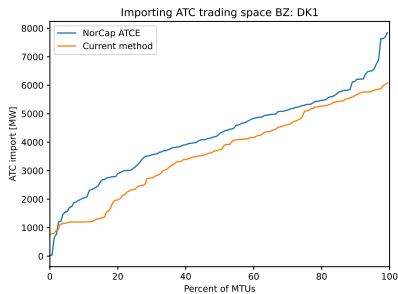
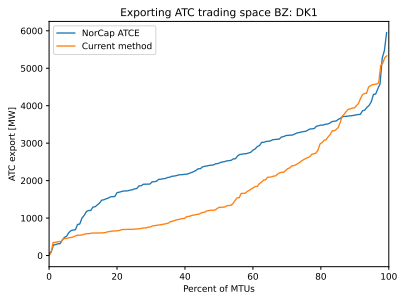
Disclaimer: Trading space computed by the reference method (i.e. the current method used in production) are calculated from intra-day offered ATCs collected from ENTSO-e transparency platform. It must be noted that the capacities collected at transparency platform are harmonized capacities including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

DK1 - Total trading space



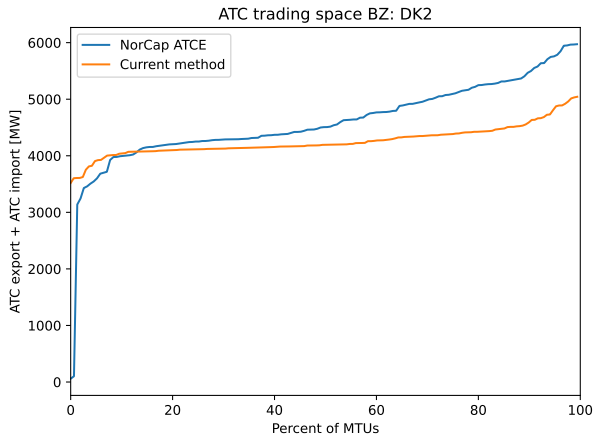
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

DK1 - Directional trading space



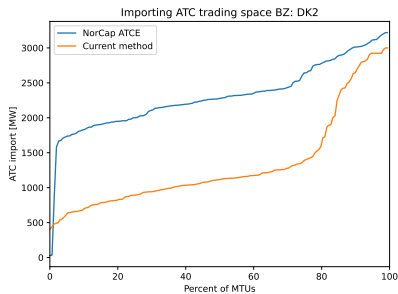
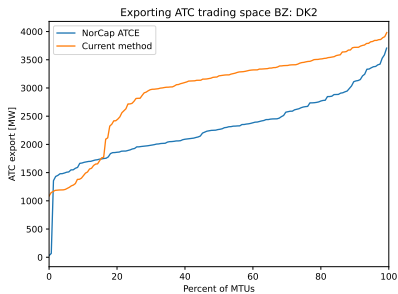
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

DK2 - Total trading space



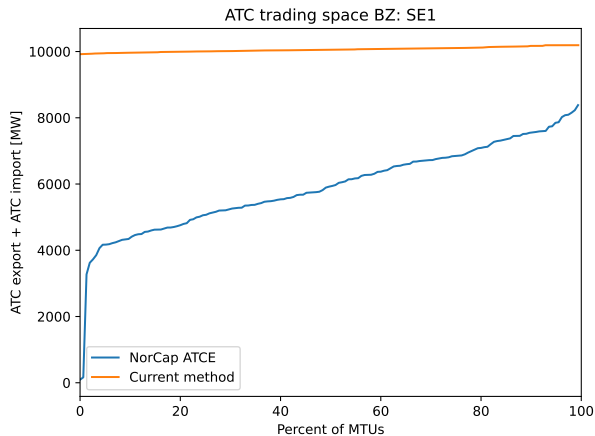
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

DK2 - Directional trading space



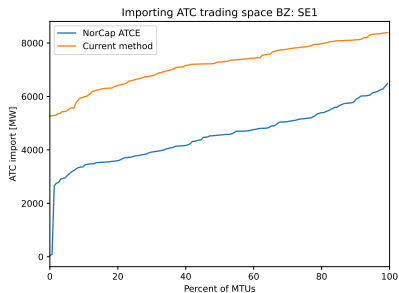
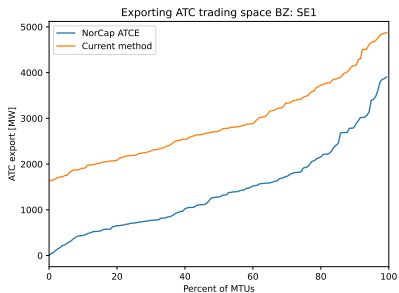
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE1 - Total trading space



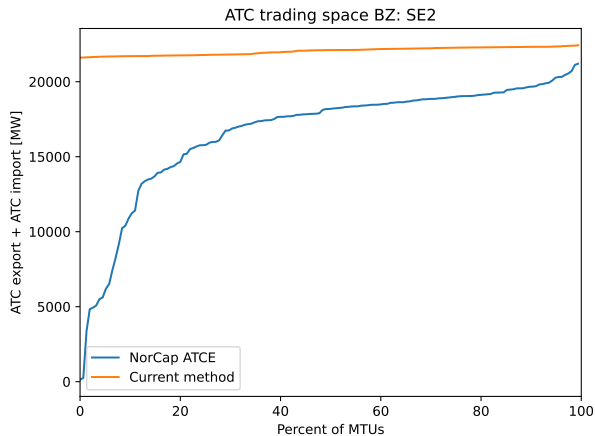
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE1 - Directional trading space



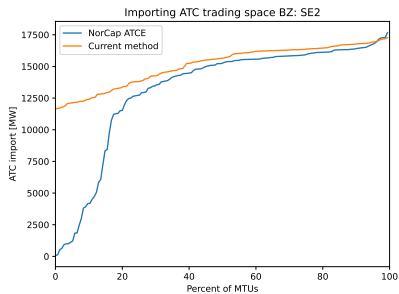
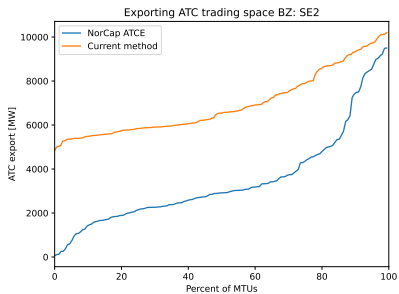
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE2 - Total trading space



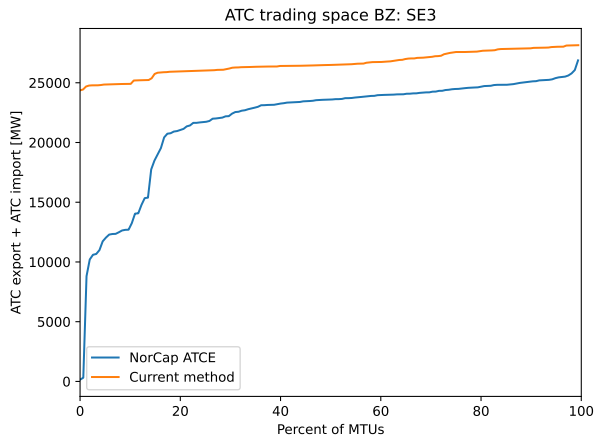
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE2 - Directional trading space



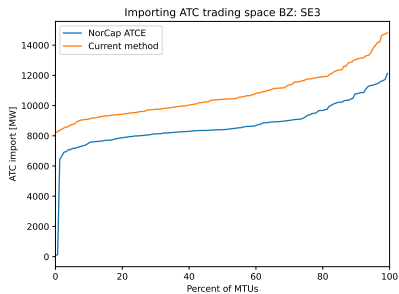
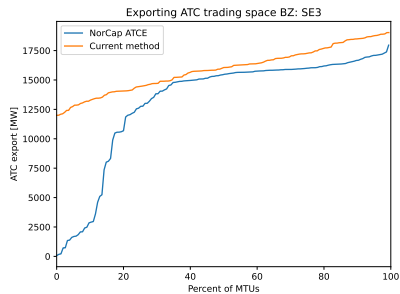
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE3 - Total trading space



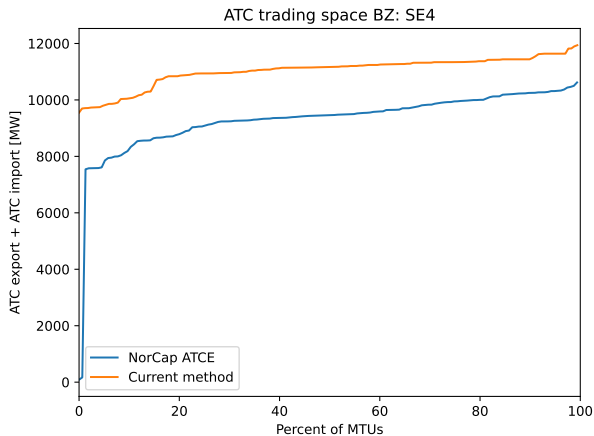
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE3 - Directional trading space



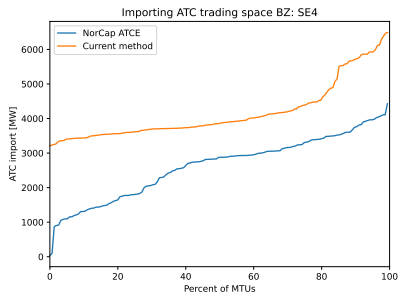
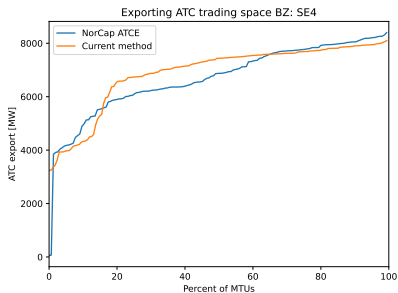
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE4 - Total trading space



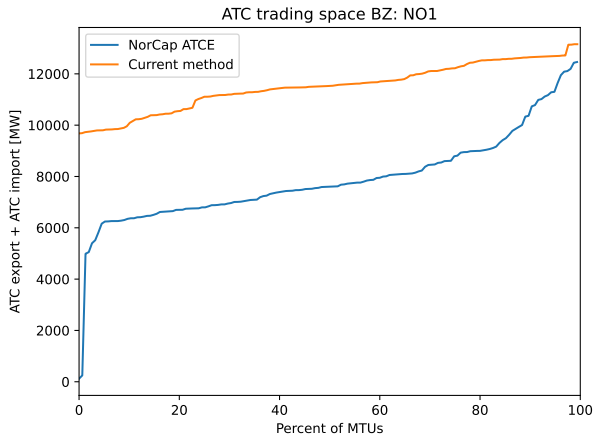
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

SE4 - Directional trading space



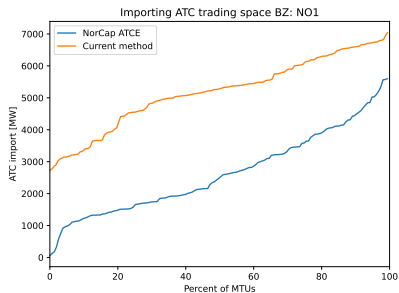
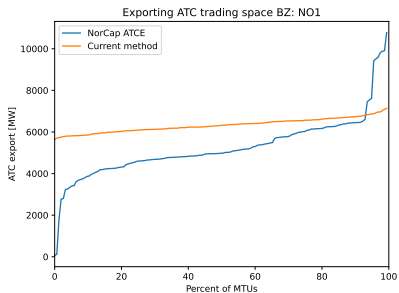
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO1 - Total trading space



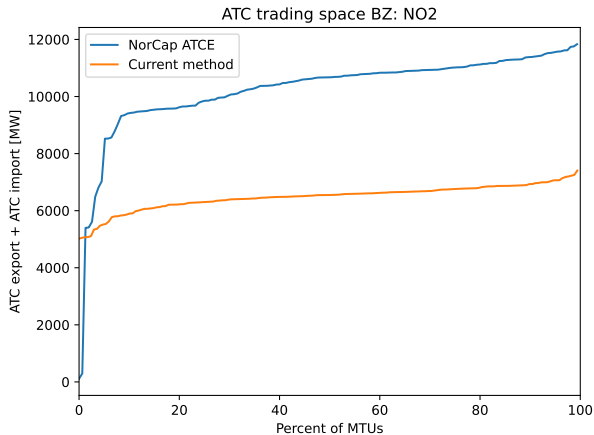
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO1 - Directional trading space



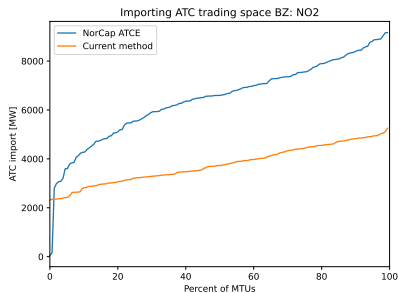
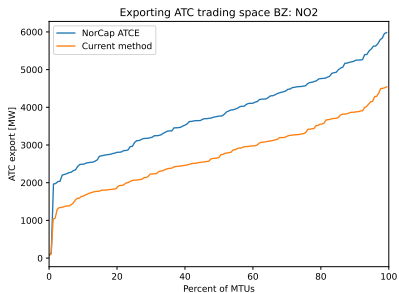
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO2 - Total trading space



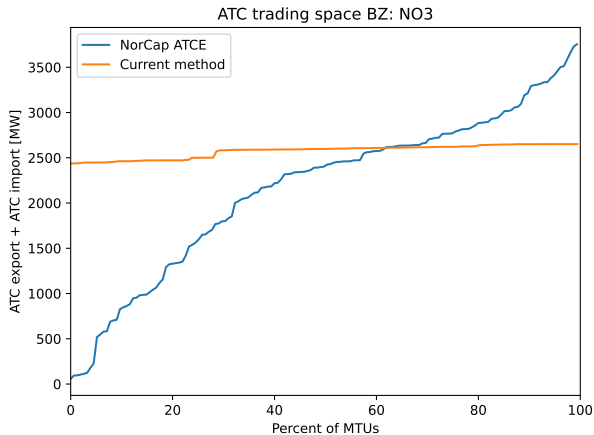
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO2 - Directional trading space



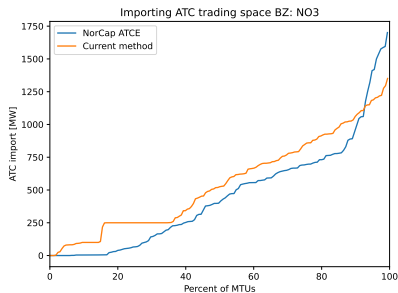
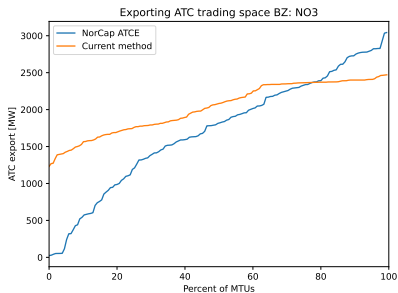
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO3 - Total trading space



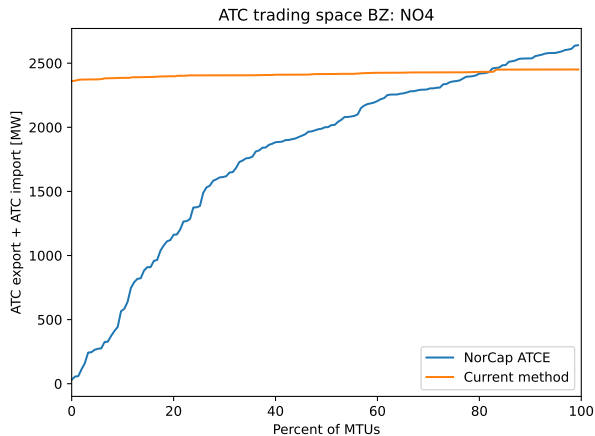
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO3 - Directional trading space



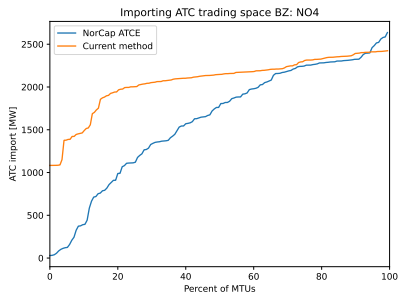
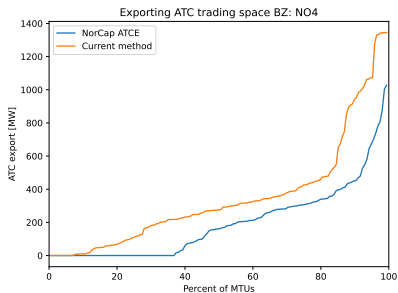
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO4 - Total trading space



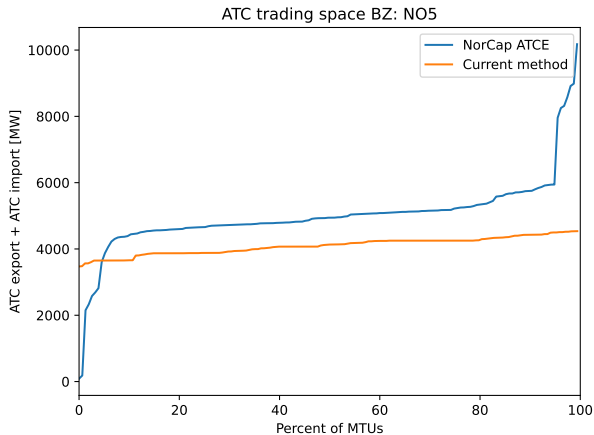
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO4 - Directional trading space



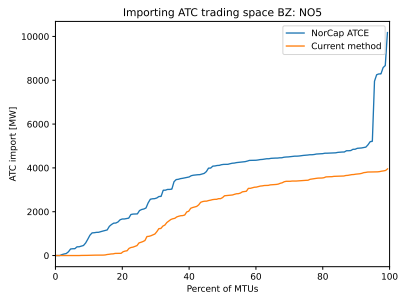
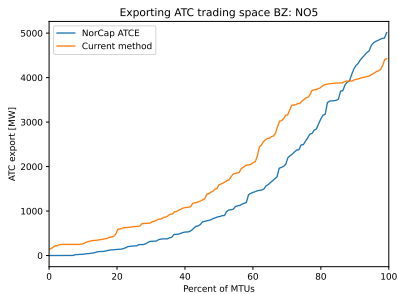
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO5 - Total trading space



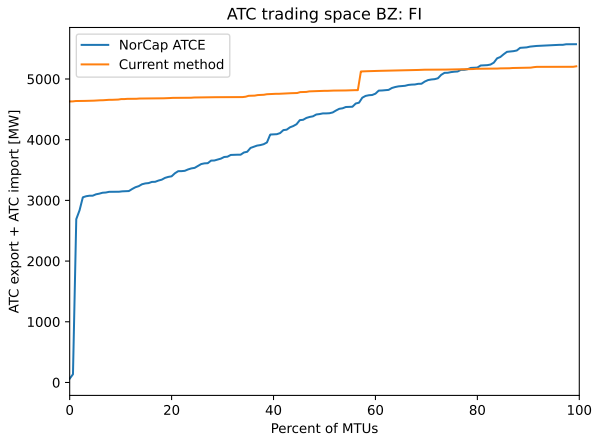
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

NO5 - Directional trading space



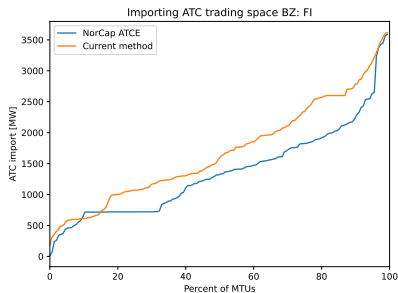
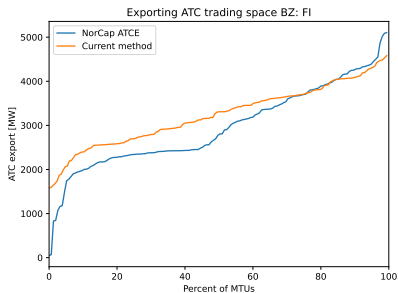
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the trading space curves.

FI - Total trading space



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

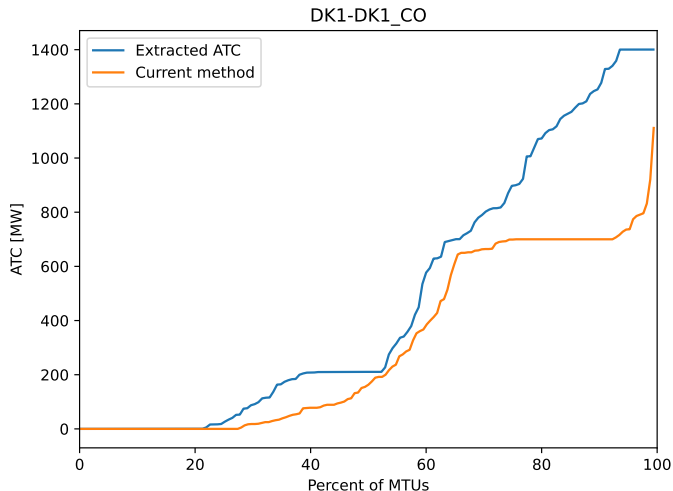
FI - Directional trading space



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

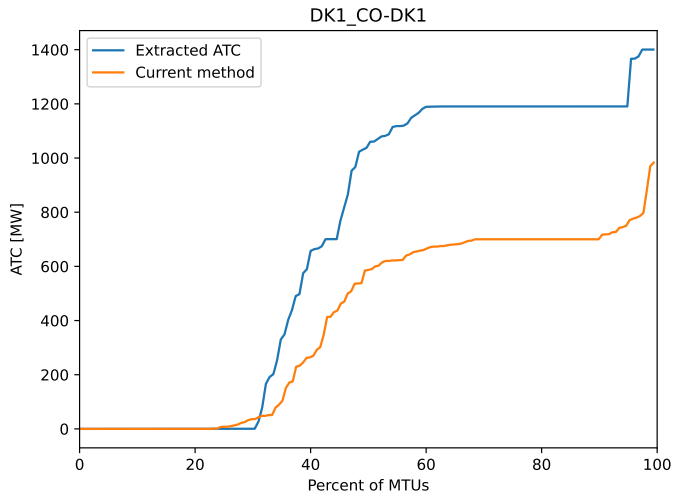
Capacity duration curves

DK1-DK1_CO ATC duration curves



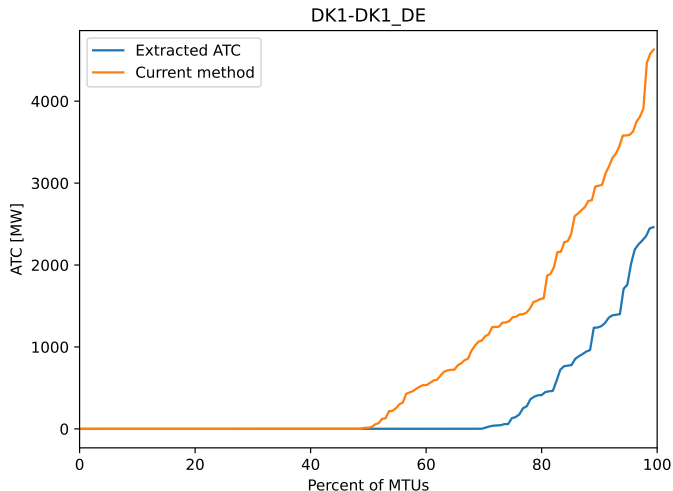
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1_CO-DK1 ATC duration curves



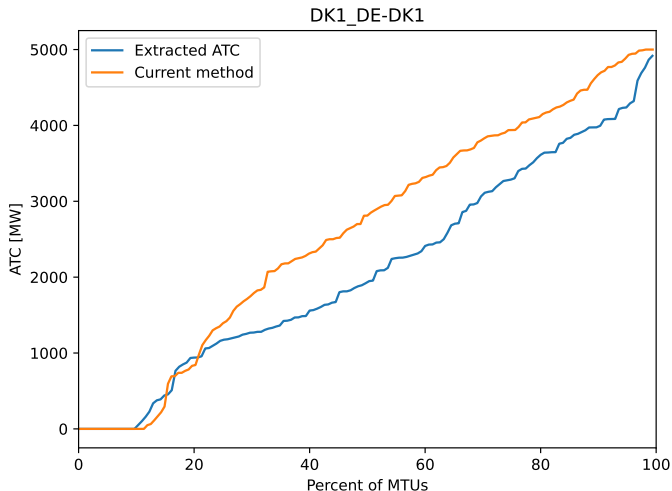
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1-DK1_DE ATC duration curves



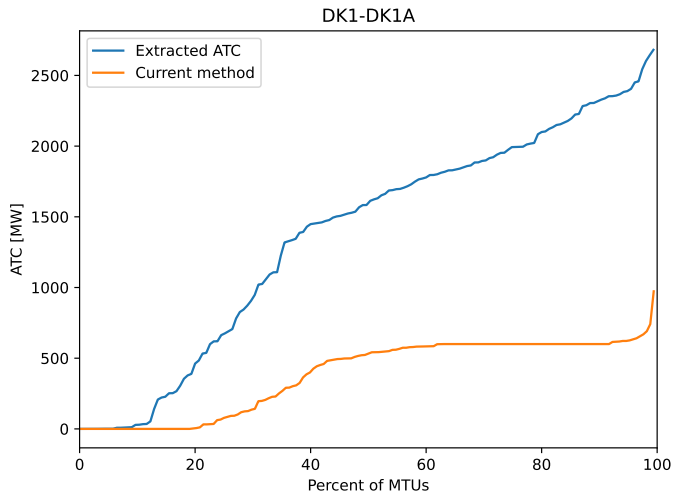
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1_DE-DK1 ATC duration curves



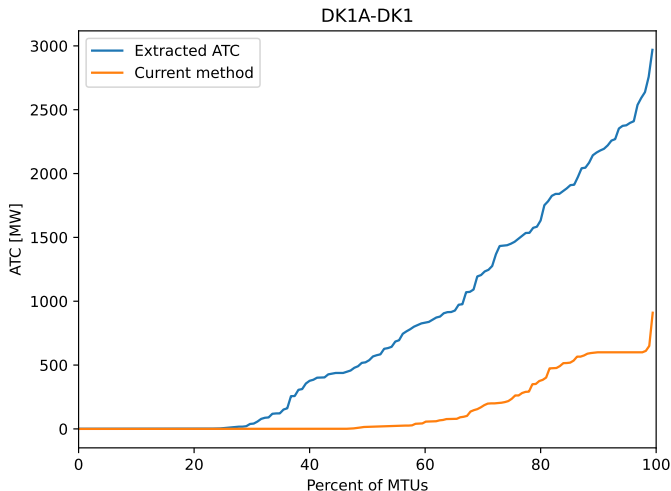
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1-DK1A ATC duration curves



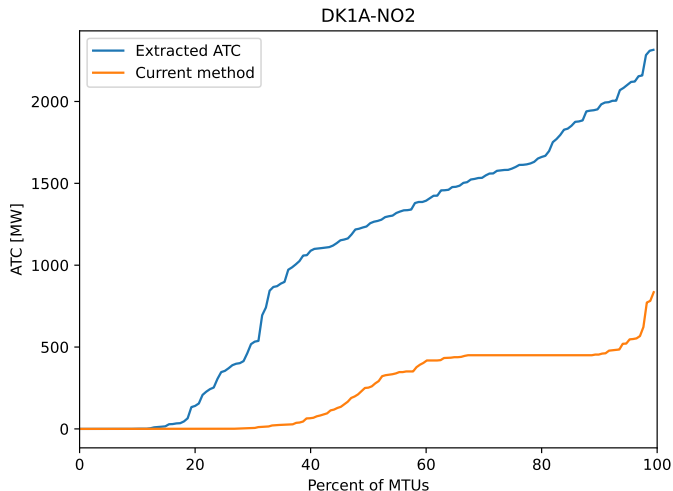
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1A-DK1 ATC duration curves



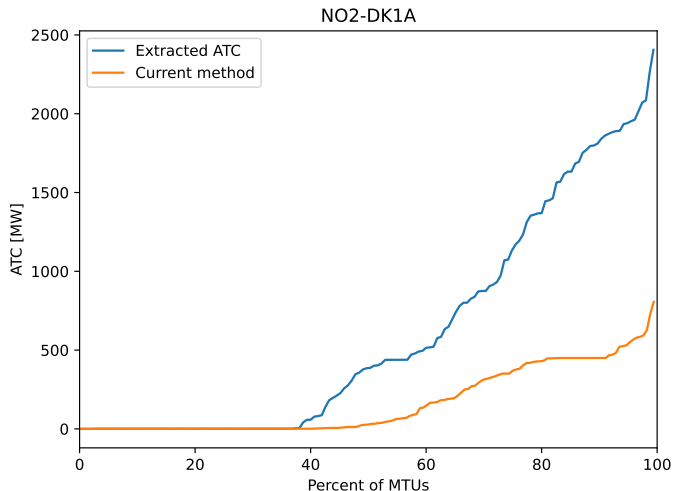
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1A-NO2 ATC duration curves



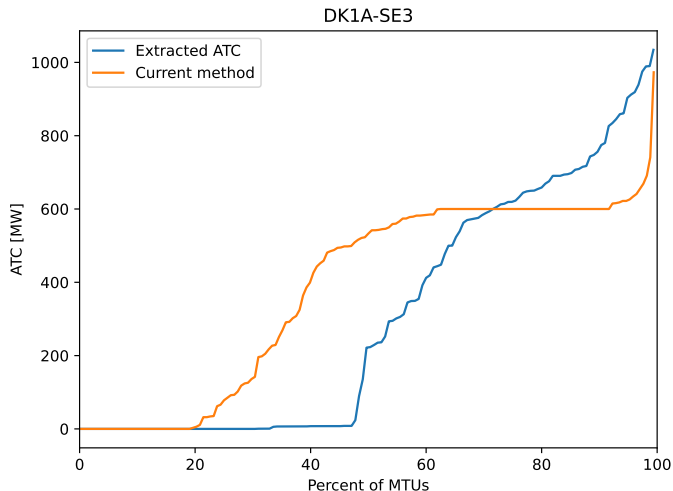
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO2-DK1A ATC duration curves



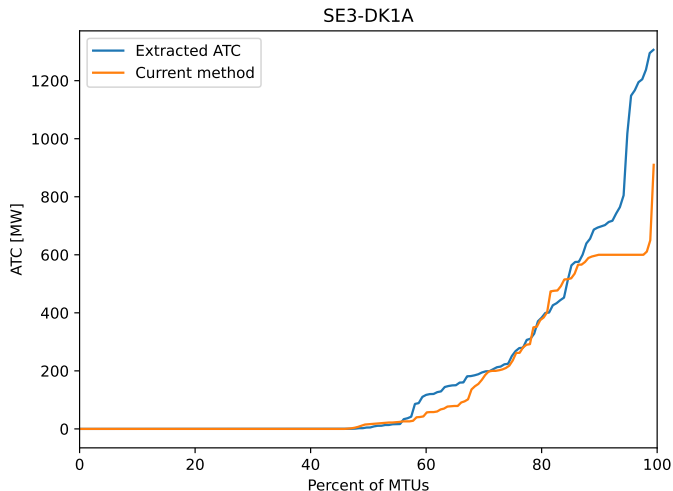
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1A-SE3 ATC duration curves



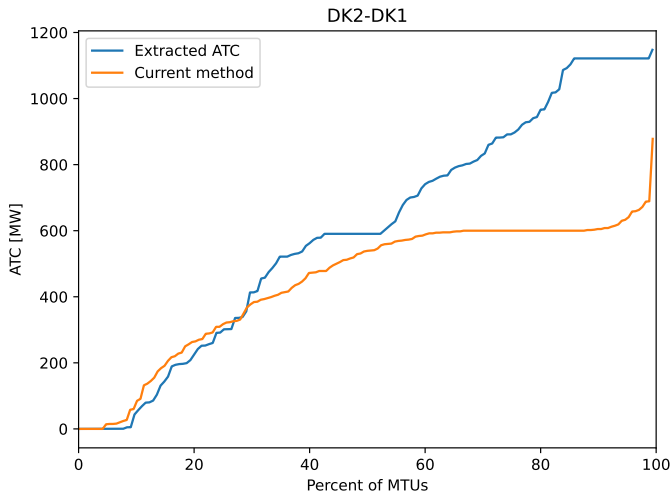
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE3-DK1A ATC duration curves



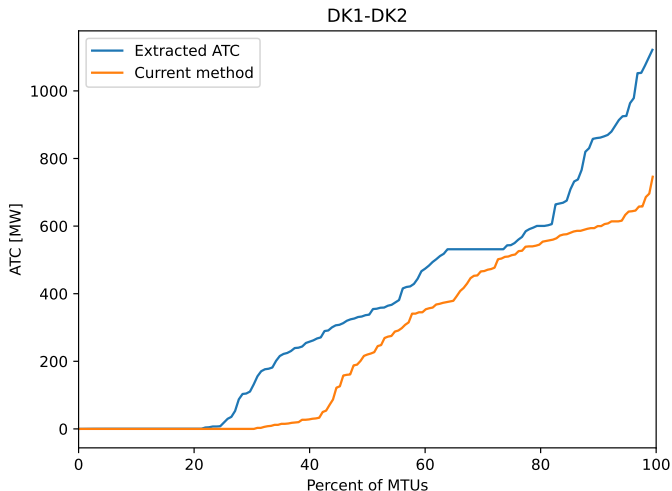
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK2-DK1 ATC duration curves



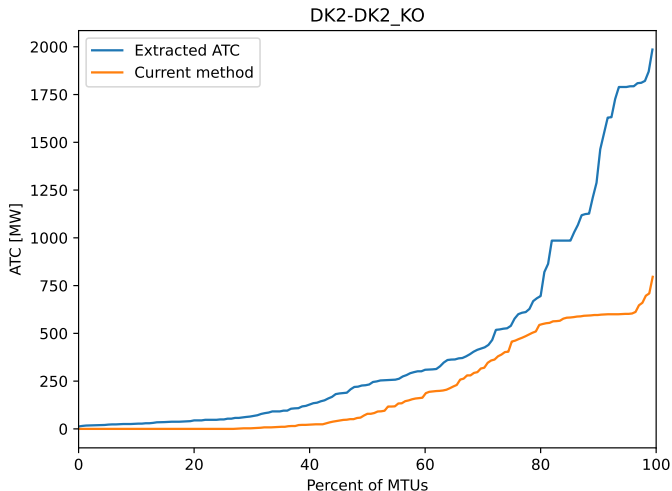
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK1-DK2 ATC duration curves



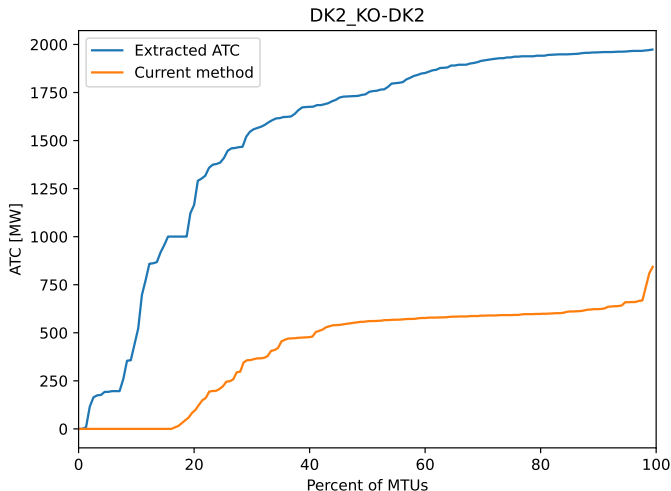
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK2-DK2_KO ATC duration curves



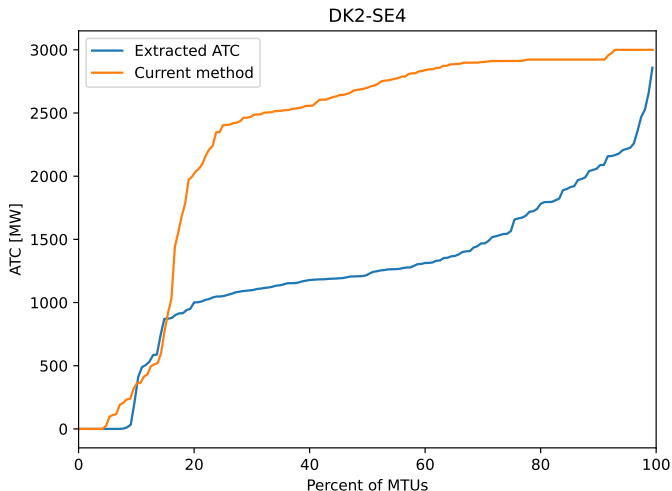
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK2_KO-DK2 ATC duration curves



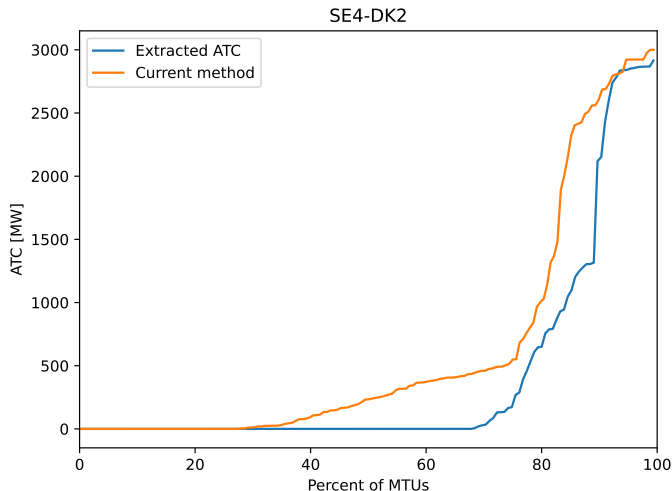
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

DK2-SE4 ATC duration curves



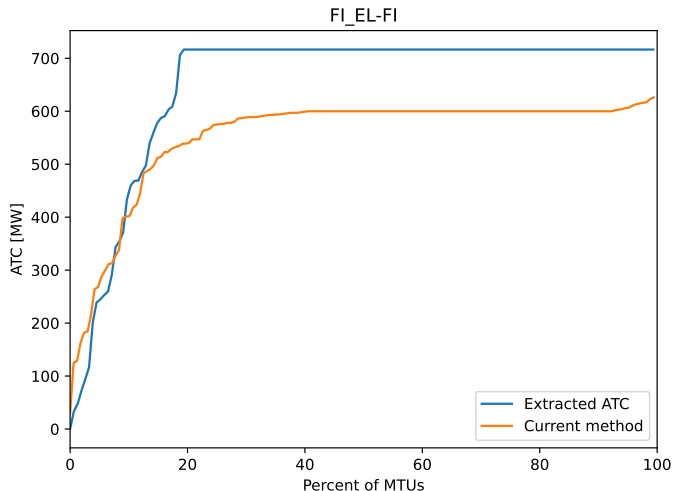
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE4-DK2 ATC duration curves



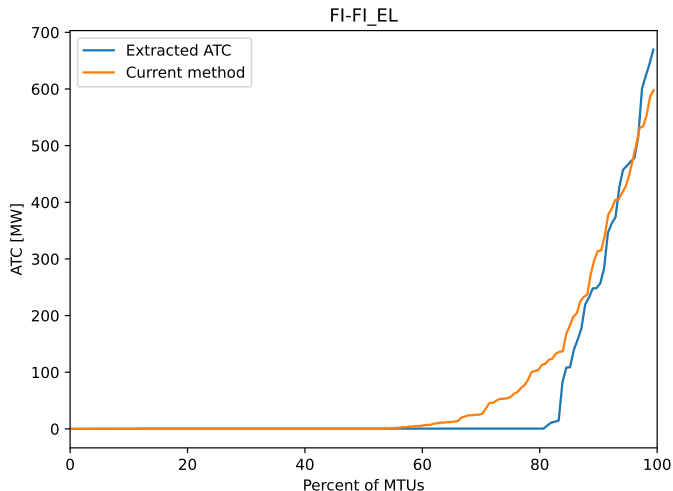
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

FI_EL-FI ATC duration curves



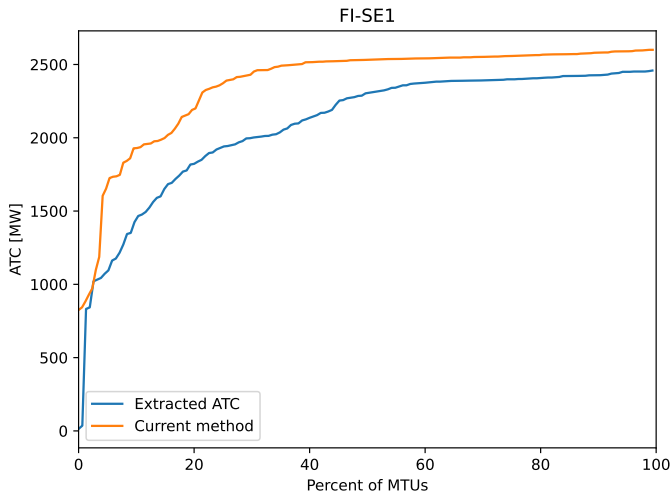
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

FI-FI_EL ATC duration curves



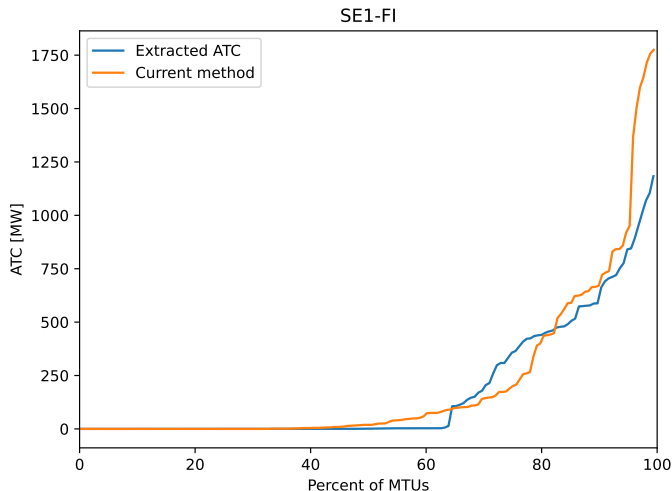
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

FI-SE1 ATC duration curves



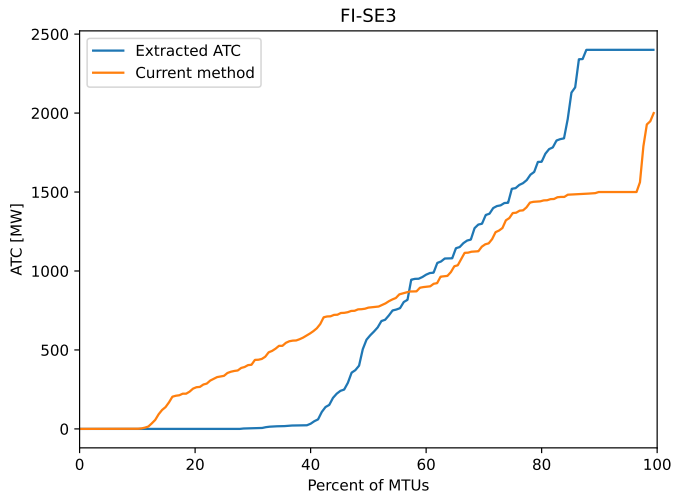
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE1-FI ATC duration curves



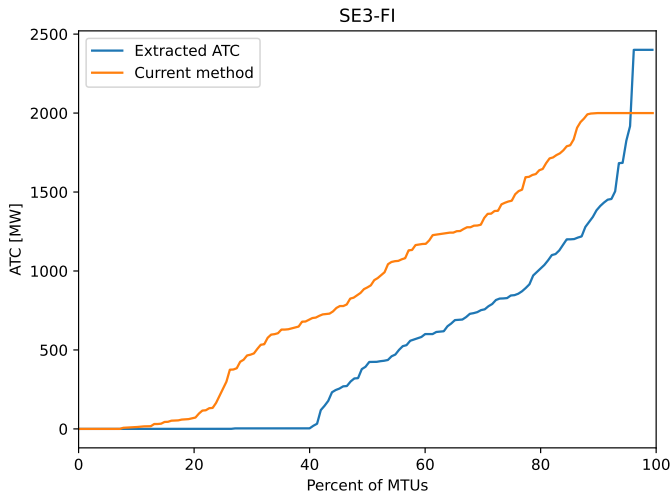
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

FI-SE3 ATC duration curves



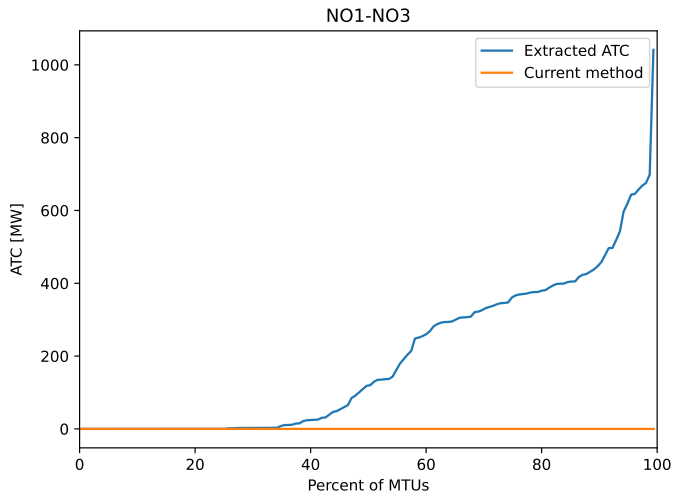
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE3-FI ATC duration curves



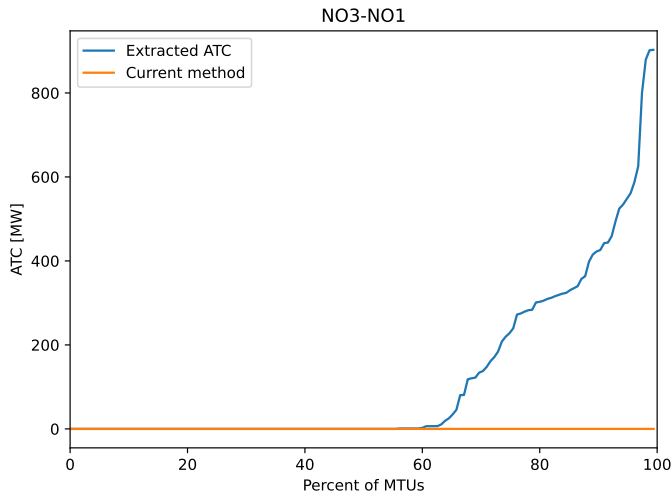
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO1-NO3 ATC duration curves



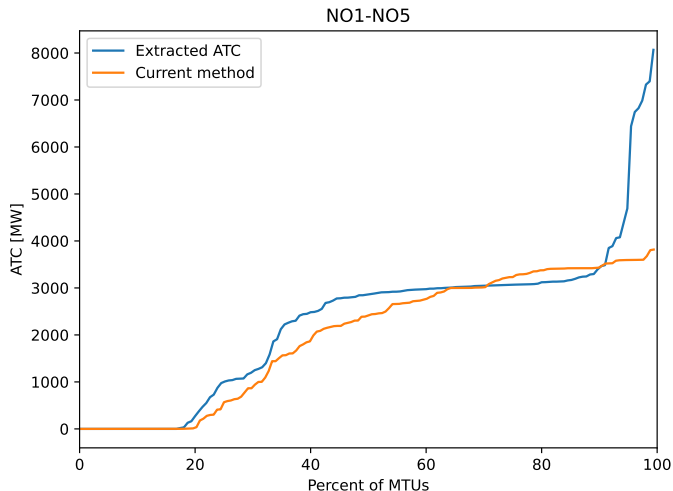
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO3-NO1 ATC duration curves



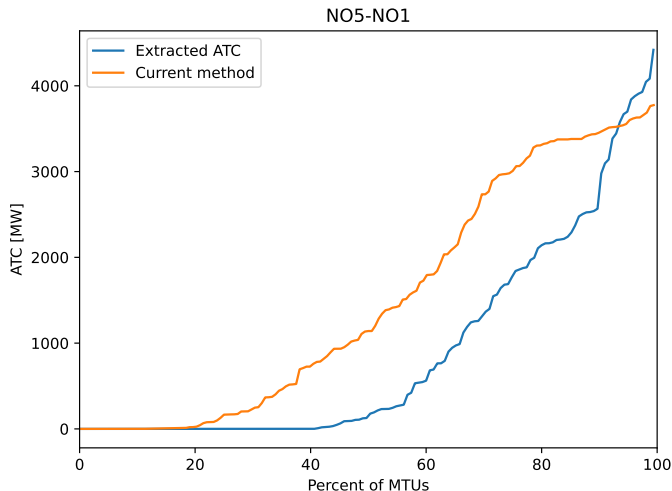
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO1-NO5 ATC duration curves



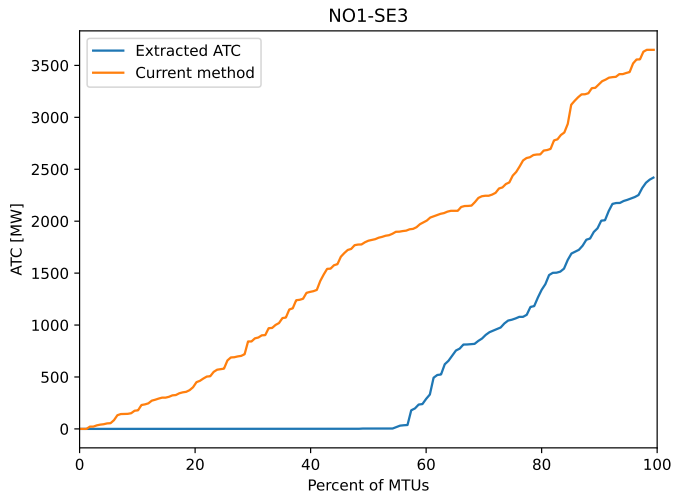
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO5-NO1 ATC duration curves



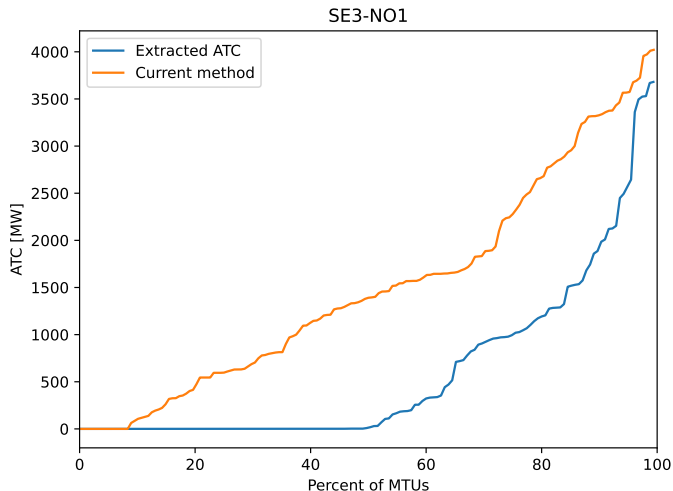
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO1-SE3 ATC duration curves



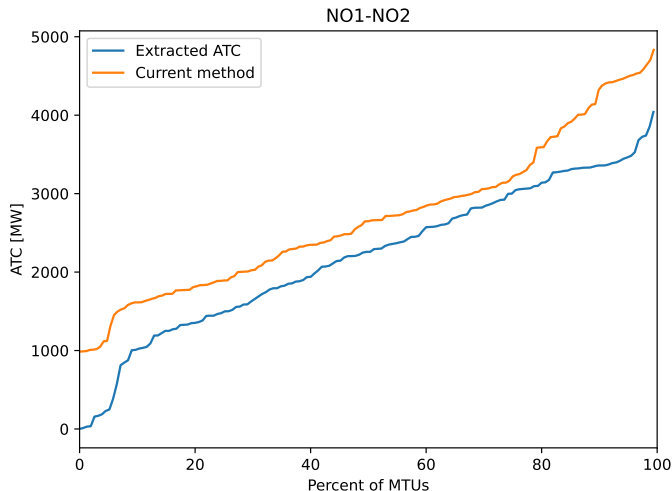
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE3-NO1 ATC duration curves



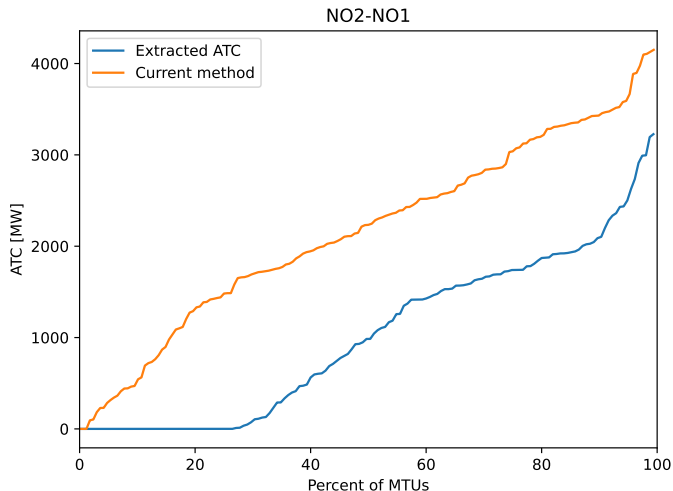
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO1-NO2 ATC duration curves



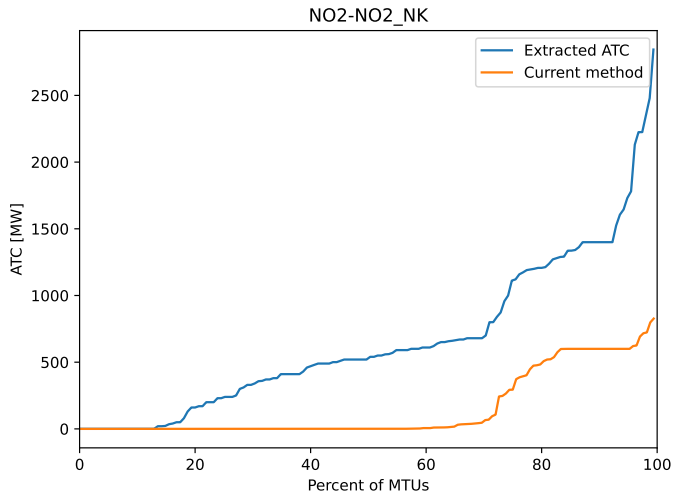
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO2-NO1 ATC duration curves



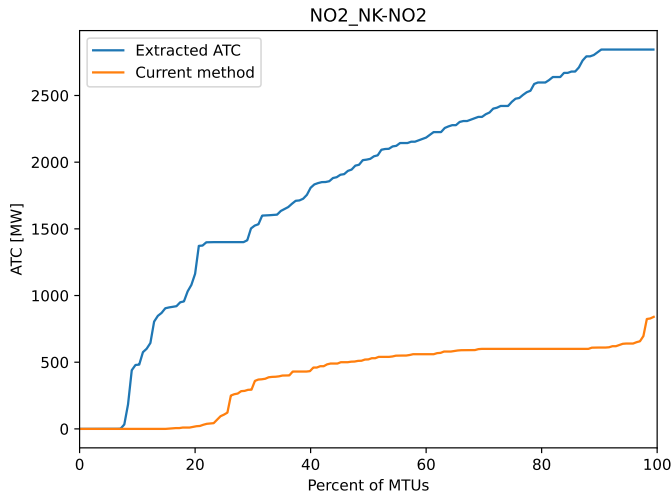
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO2-NO2_NK ATC duration curves



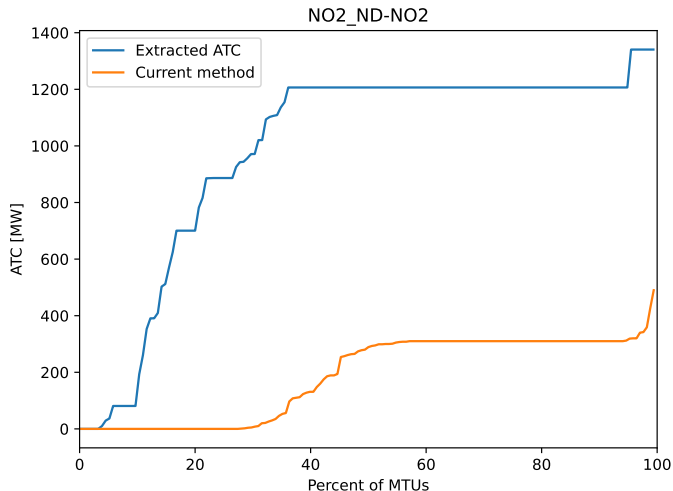
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO2_NK-NO2 ATC duration curves



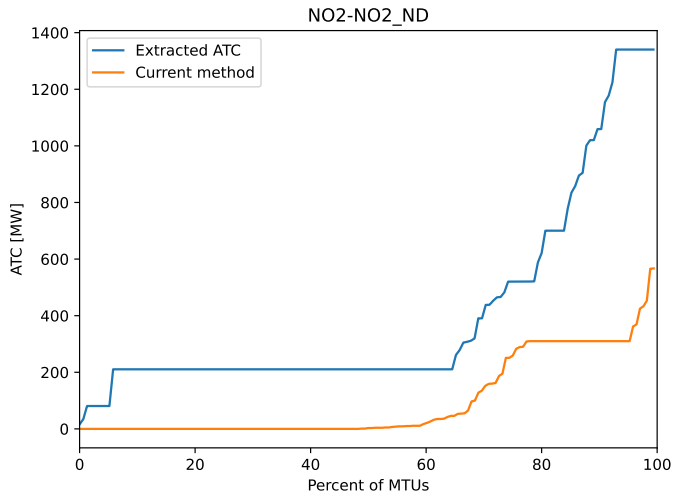
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO2_ND-NO2 ATC duration curves



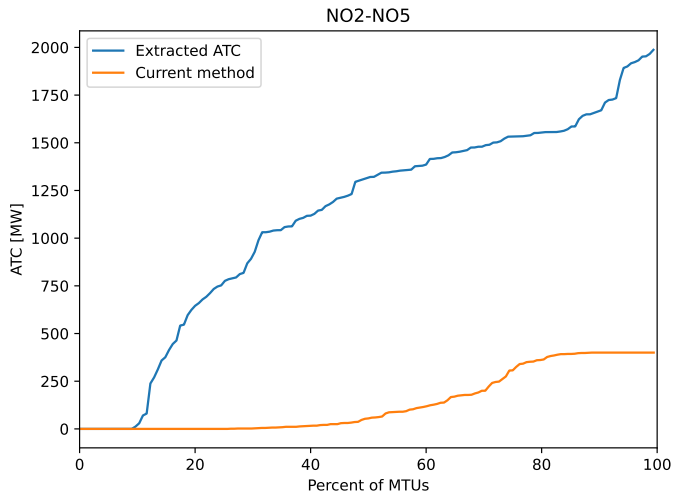
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO2-NO2_ND ATC duration curves



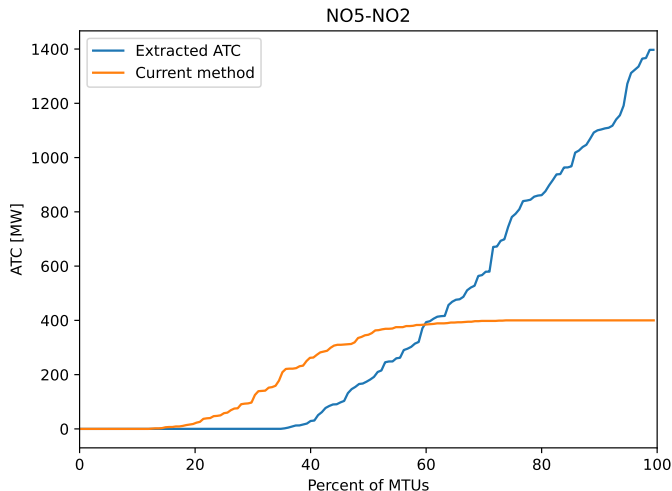
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO2-NO5 ATC duration curves



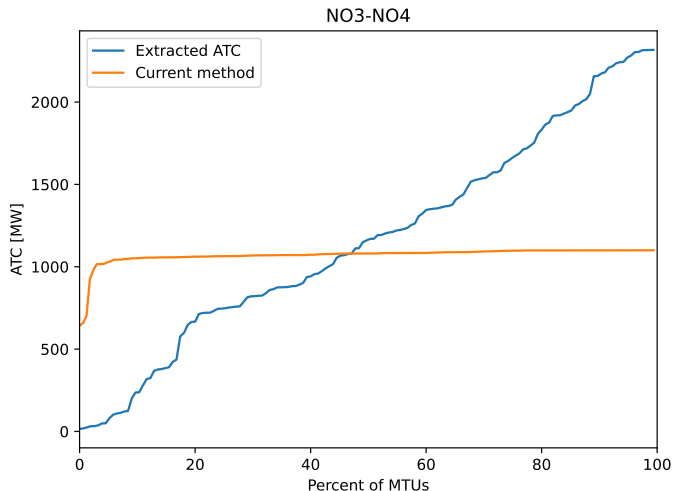
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO5-NO2 ATC duration curves



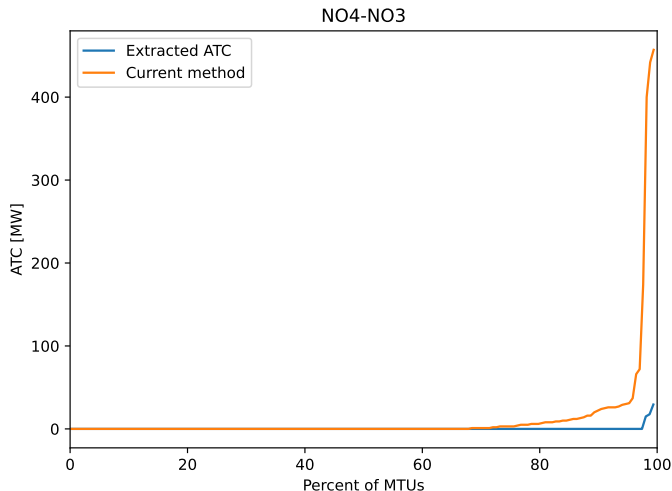
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO3-NO4 ATC duration curves



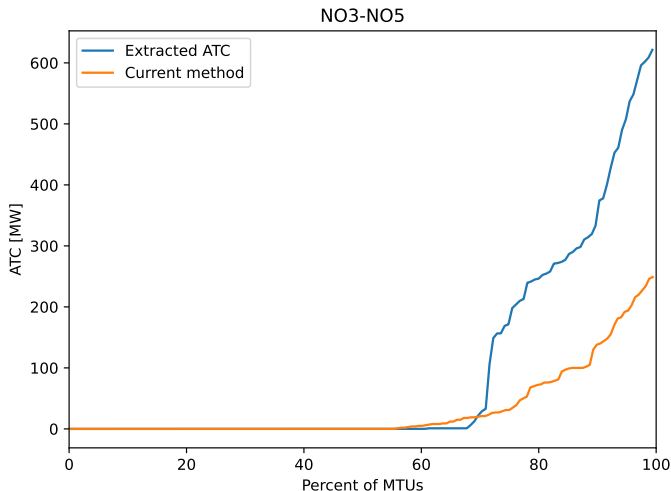
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO4-NO3 ATC duration curves



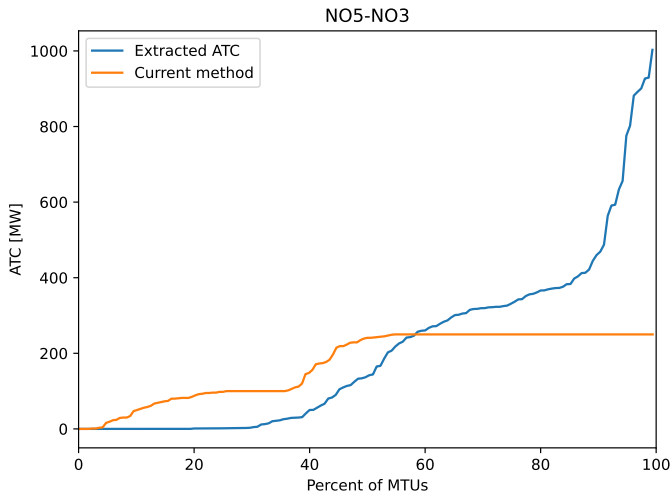
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO3-NO5 ATC duration curves



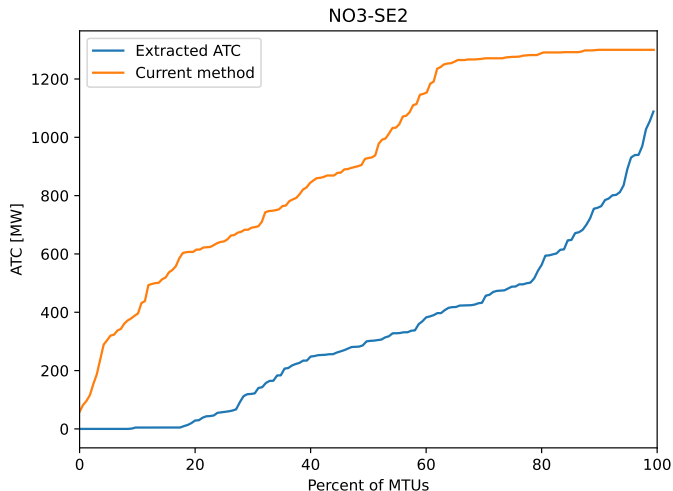
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO5-NO3 ATC duration curves



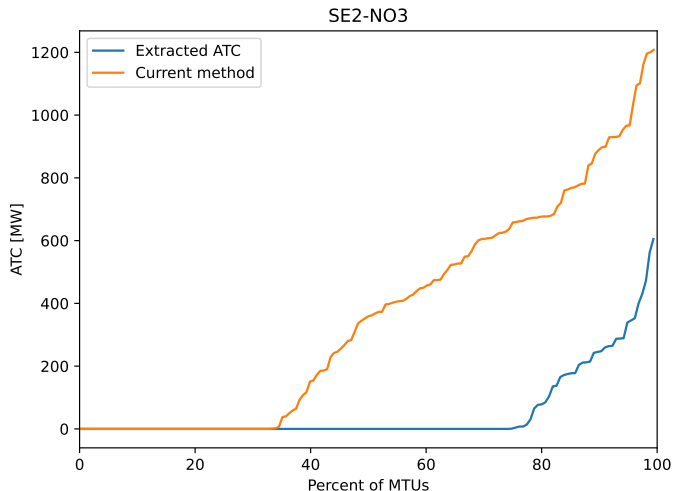
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO3-SE2 ATC duration curves



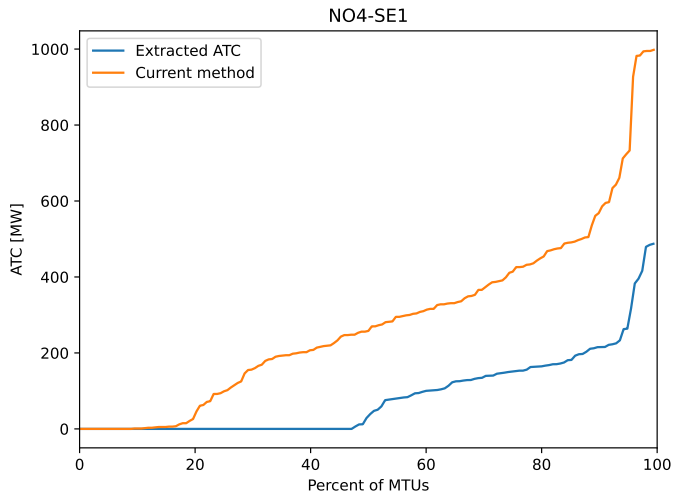
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE2-NO3 ATC duration curves



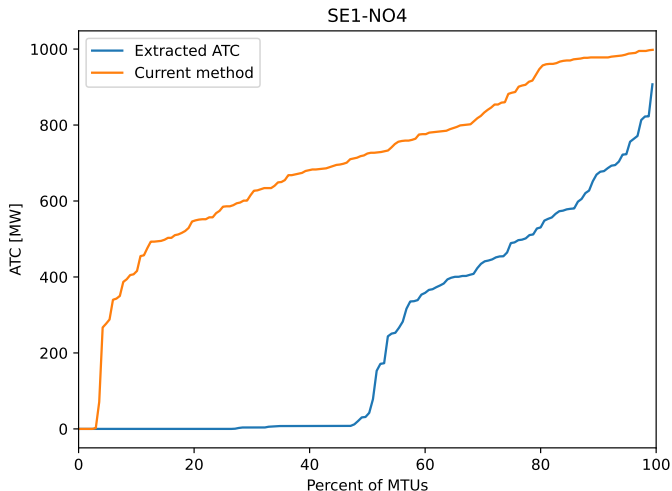
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO4-SE1 ATC duration curves



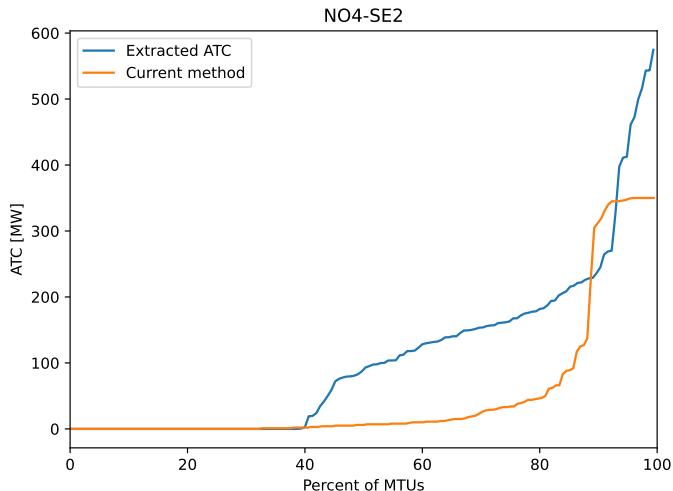
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE1-NO4 ATC duration curves



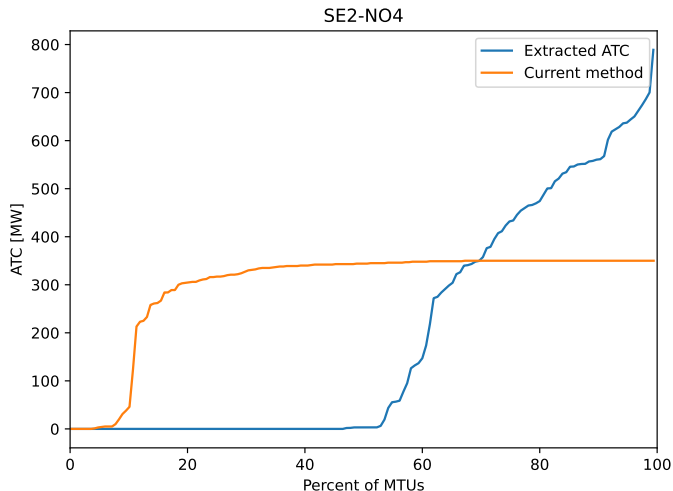
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

NO4-SE2 ATC duration curves



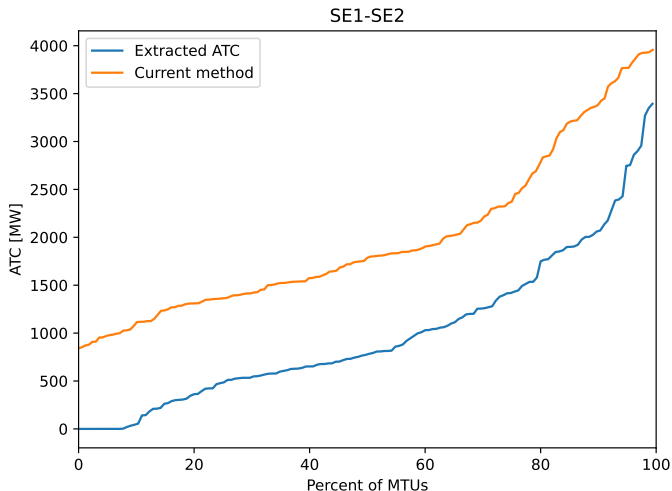
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE2-NO4 ATC duration curves



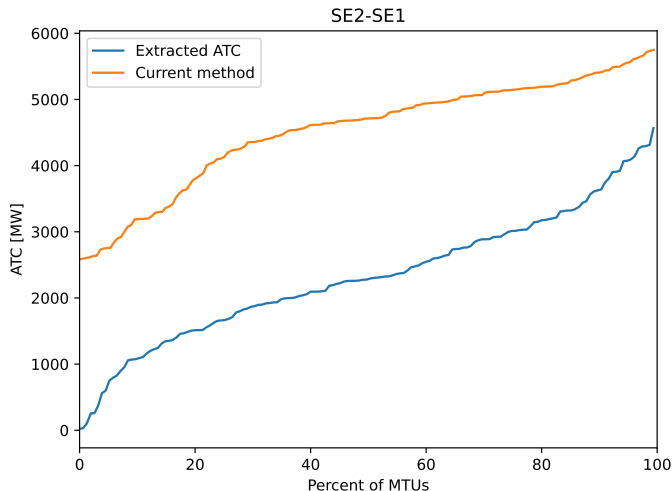
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE1-SE2 ATC duration curves



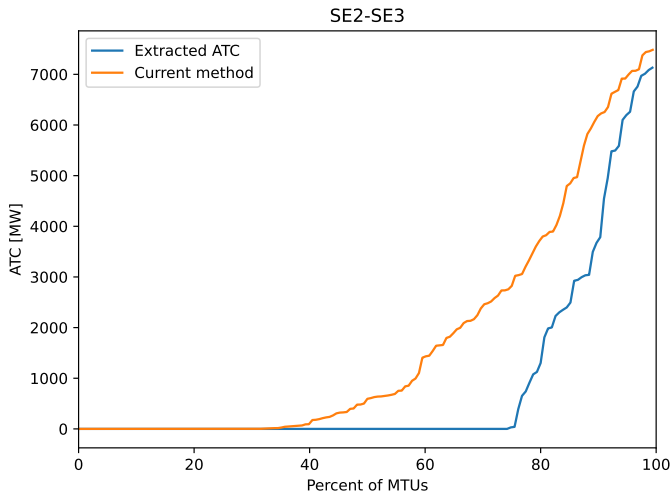
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE2-SE1 ATC duration curves



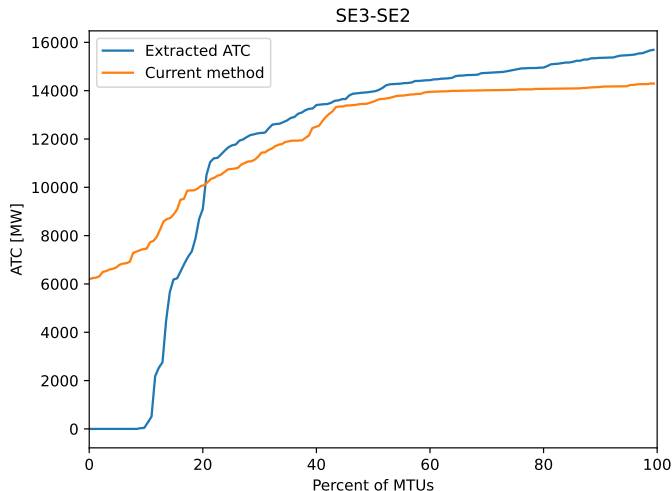
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE2-SE3 ATC duration curves



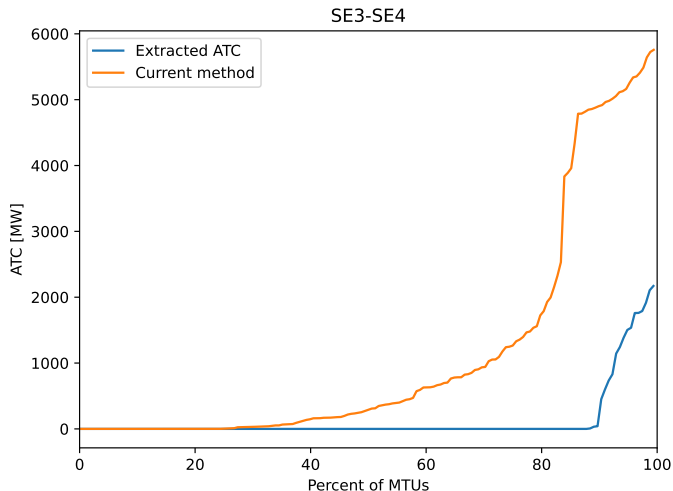
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE3-SE2 ATC duration curves



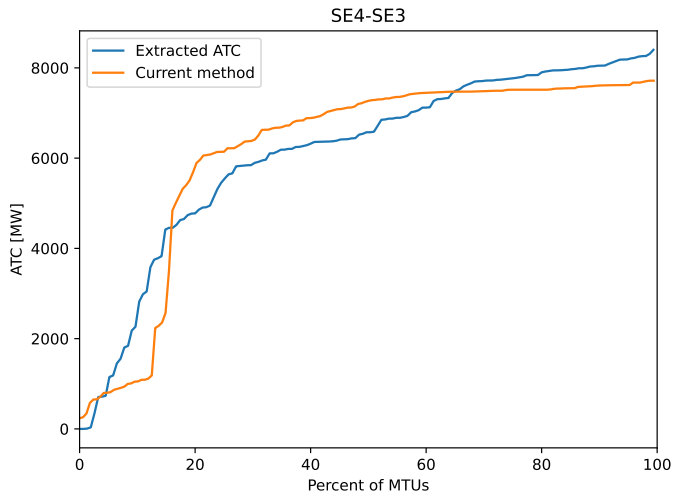
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE3-SE4 ATC duration curves



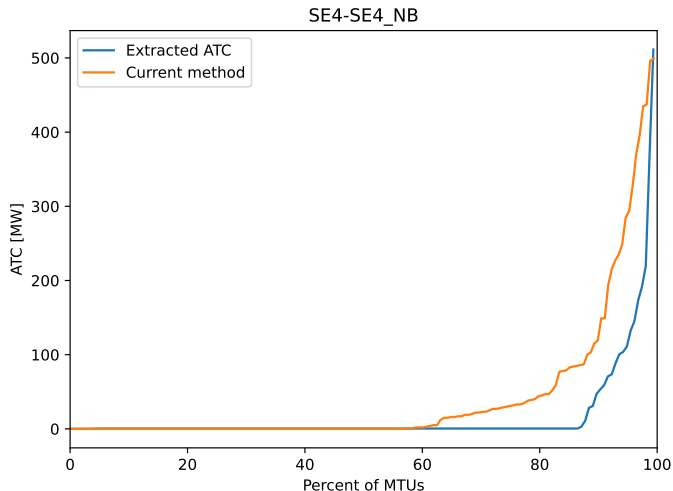
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE4-SE3 ATC duration curves



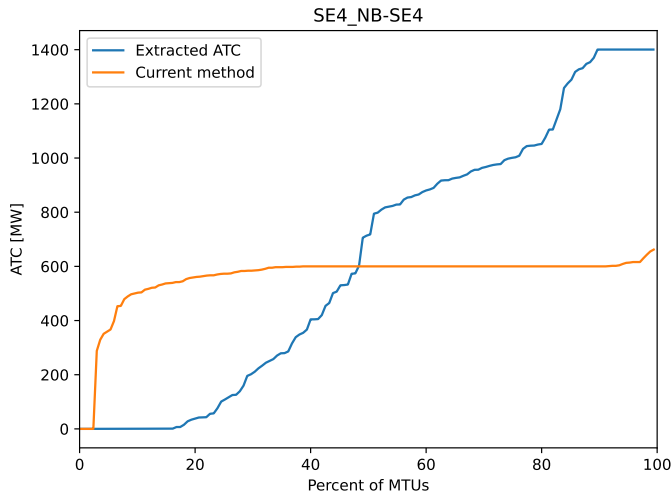
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE4-SE4_NB ATC duration curves



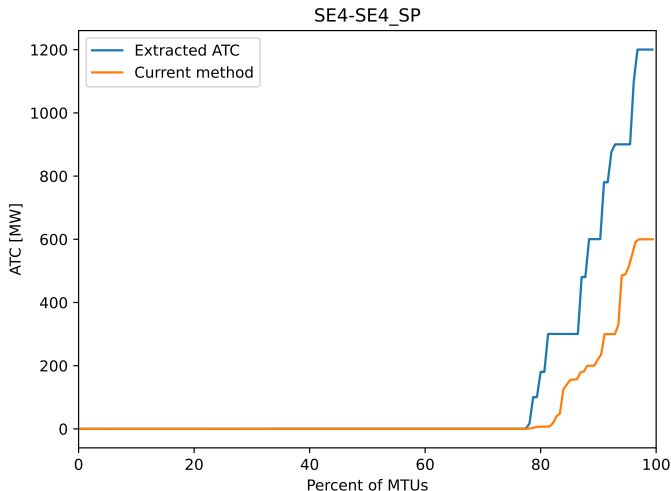
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE4_NB-SE4 ATC duration curves



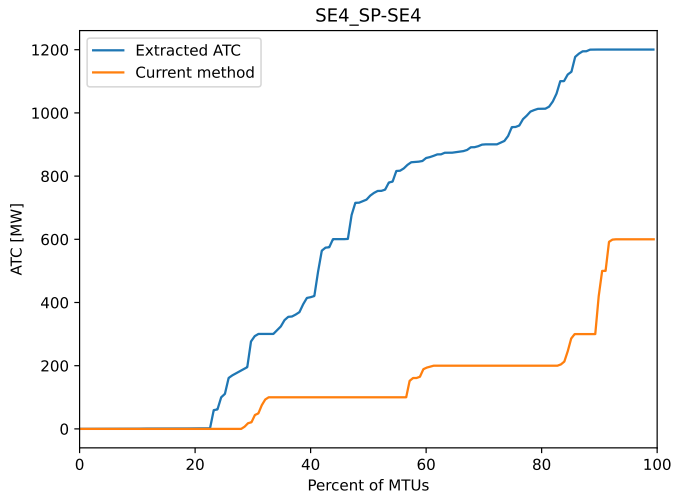
Note: MTUs where ATC extraction resulted in use of backup have been excluded from the capacity duration curves.

SE4-SE4_SP ATC duration curves



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

SE4_SP-SE4 ATC duration curves



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