

2024W31 ATC Extraction Results

Nordic RCC

August 27, 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.

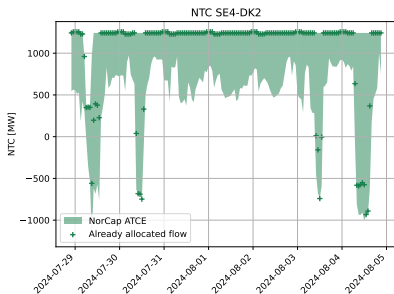
Bidding zone	#MTUs at max Export	#MTUs at max Import	#MTUs at lock-in
DK1	0	0	0
DK2	0	0	0
FI	0	0	0
NO1	4	0	0
NO2	0	0	0
NO3	0	33	0
NO4	35	4	0
NO5	2	0	0
SE1	1	1	0
SE2	0	0	0
SE3	2	0	0
SE4	0	0	0

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.

Border	#MTUs at lock-in
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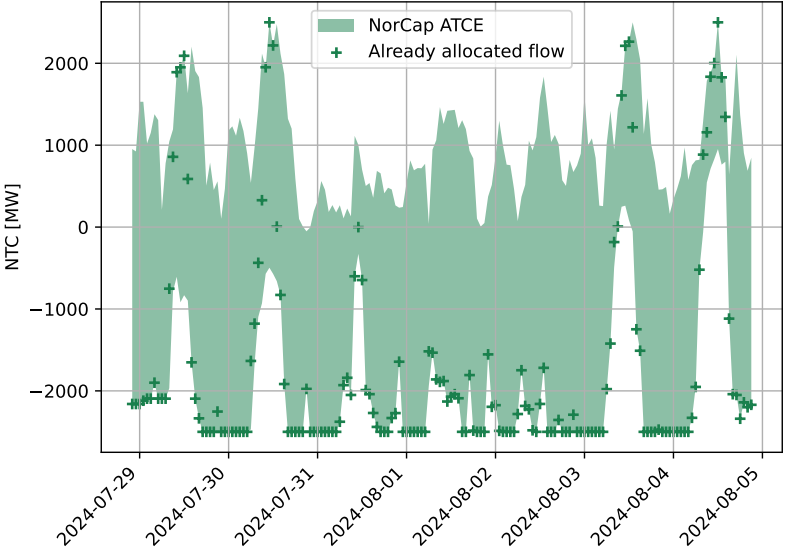
Border NTC plots - Reader's guide



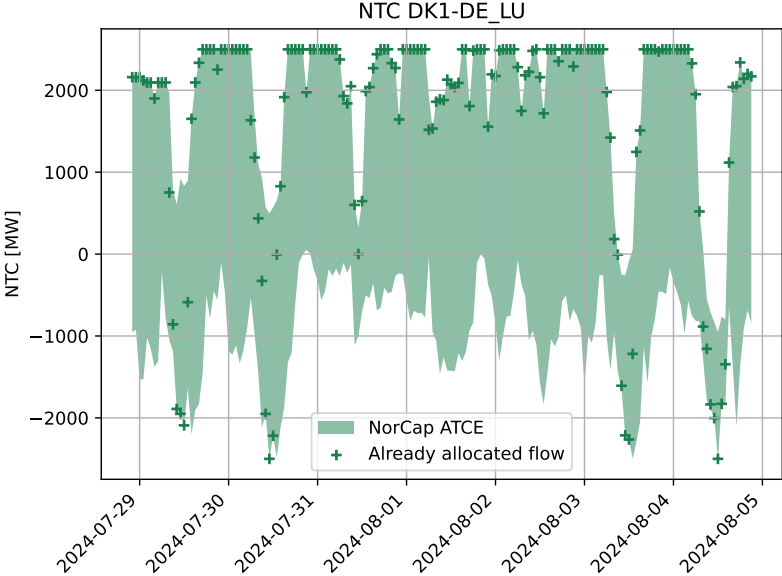
The colored area represents the possible exchange on this border and direction. The cross marks the simulated day ahead market coupling flows. Any colored area above the cross, means that intraday market will be able to increase exchange over the day ahead market coupling flows. Any colored area below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

DE_LU-DK1

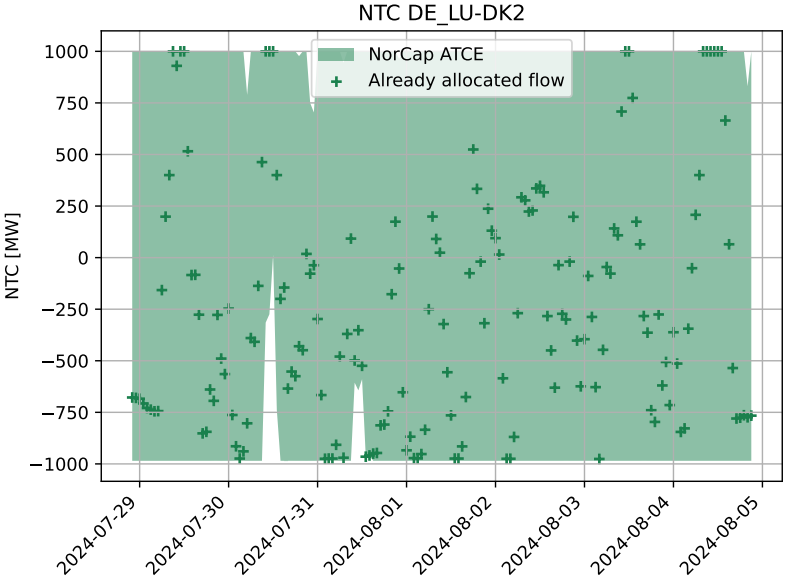
NTC DE_LU-DK1



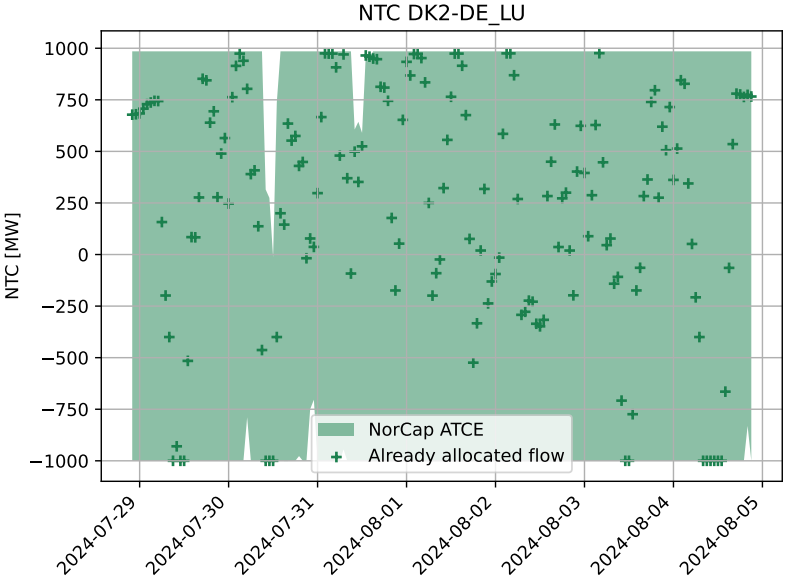
DK1-DE_LU



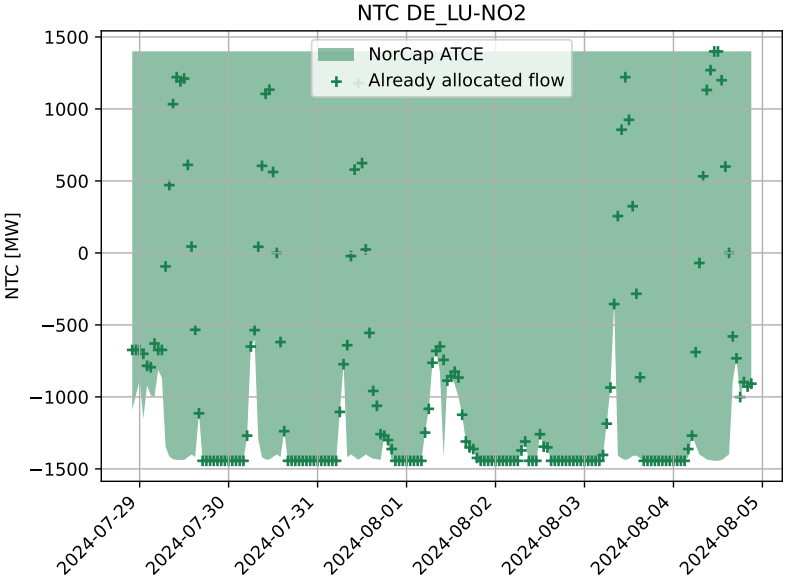
DE_LU-DK2



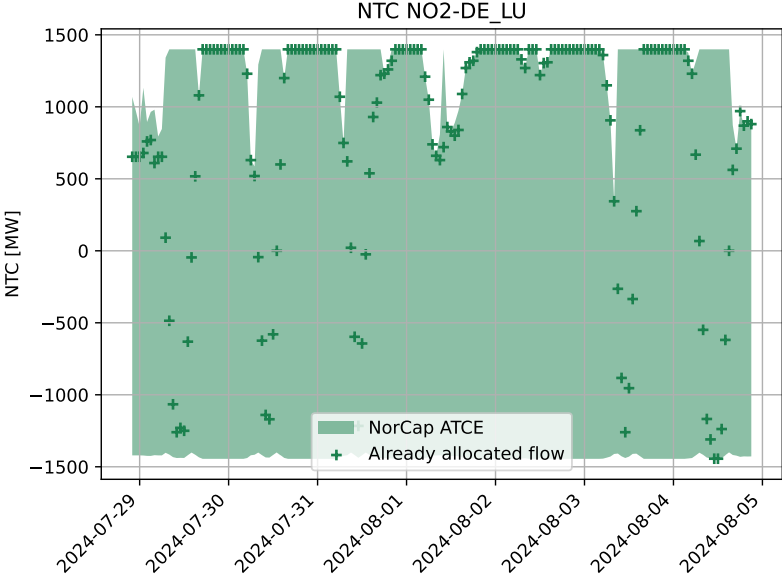
DK2-DE_LU



DE_LU-NO2

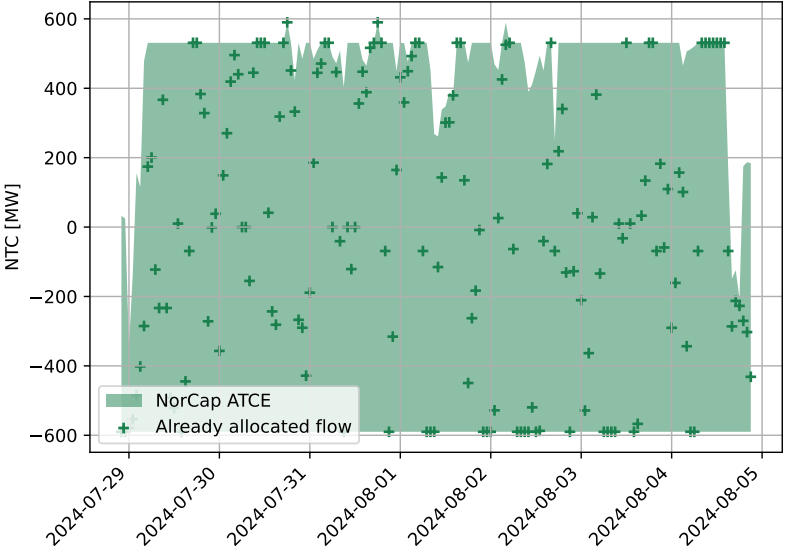


NO2-DE_LU



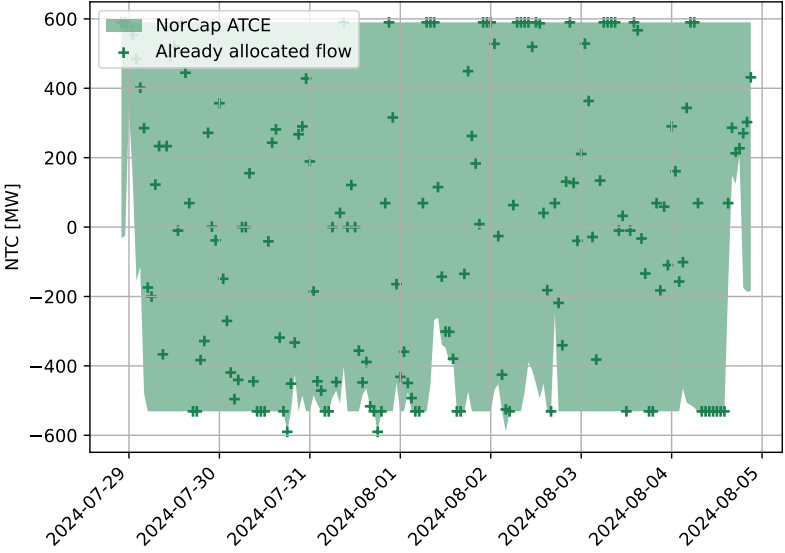
DK1-DK2

NTC DK1-DK2



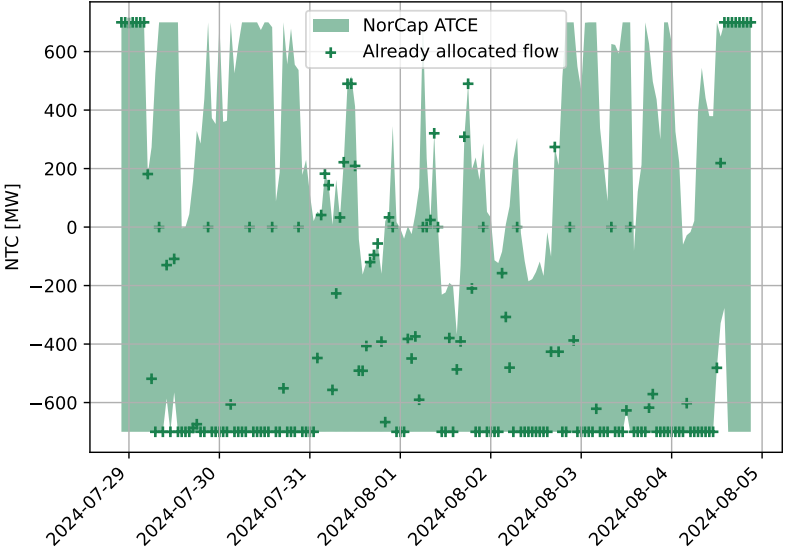
DK2-DK1

NTC DK2-DK1

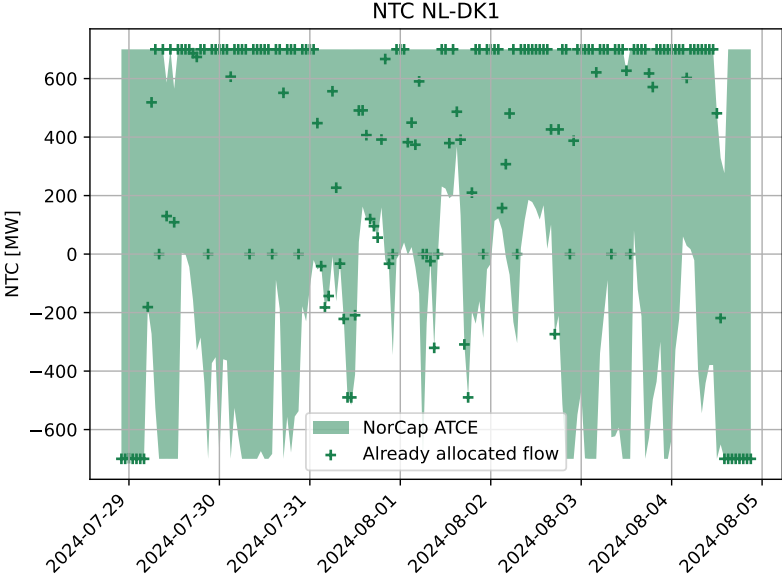


DK1-NL

NTC DK1-NL

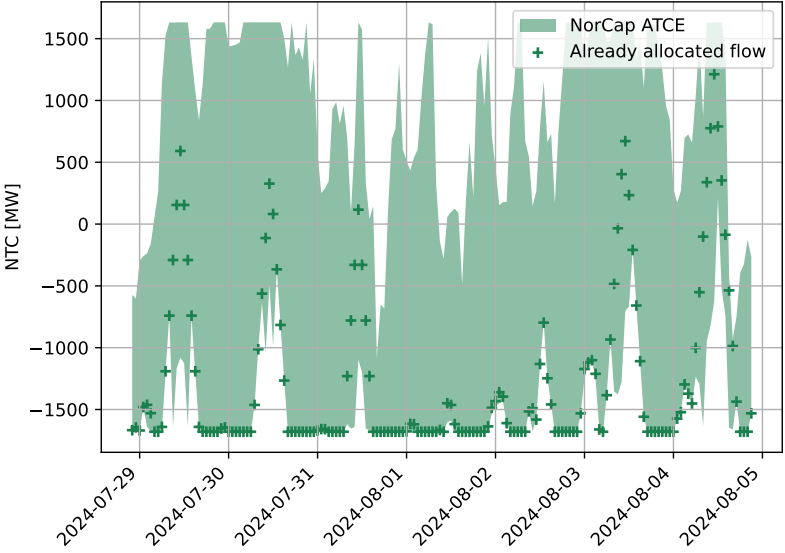


NL-DK1

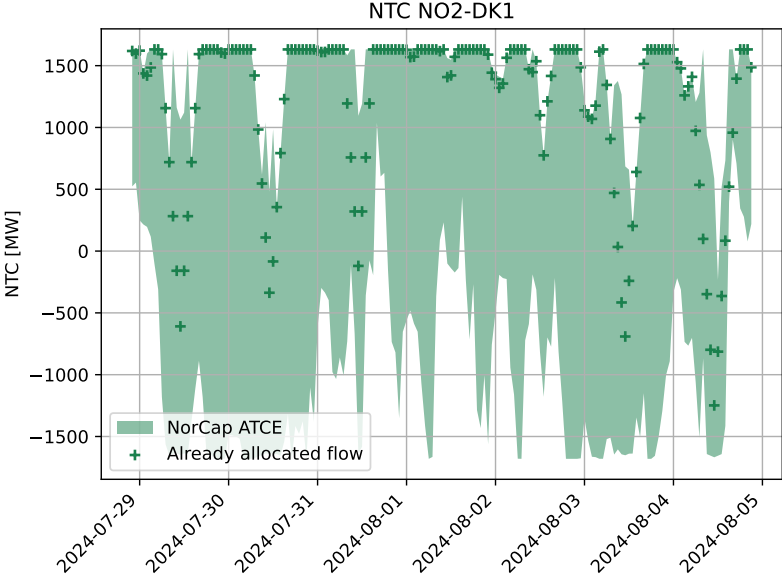


DK1-NO2

NTC DK1-NO2

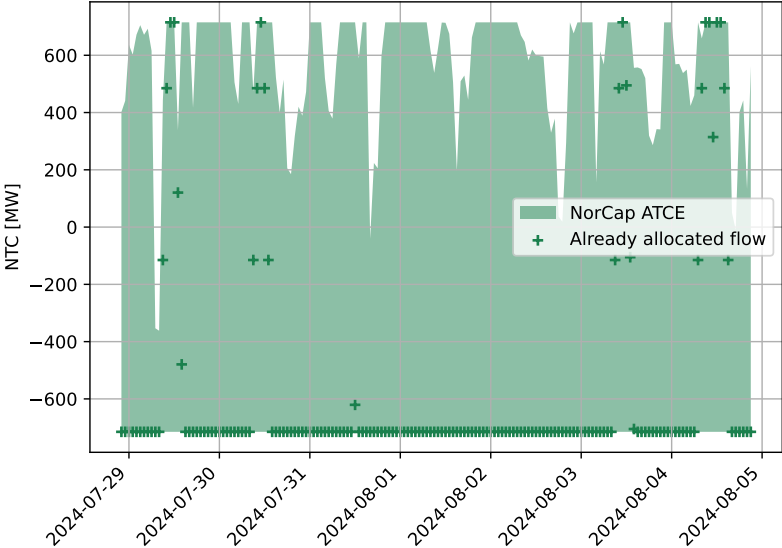


NO2-DK1



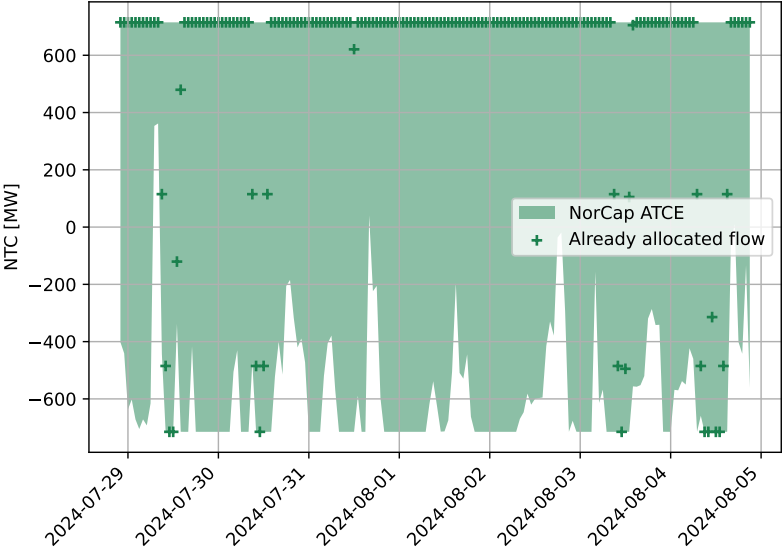
DK1-SE3

NTC DK1-SE3



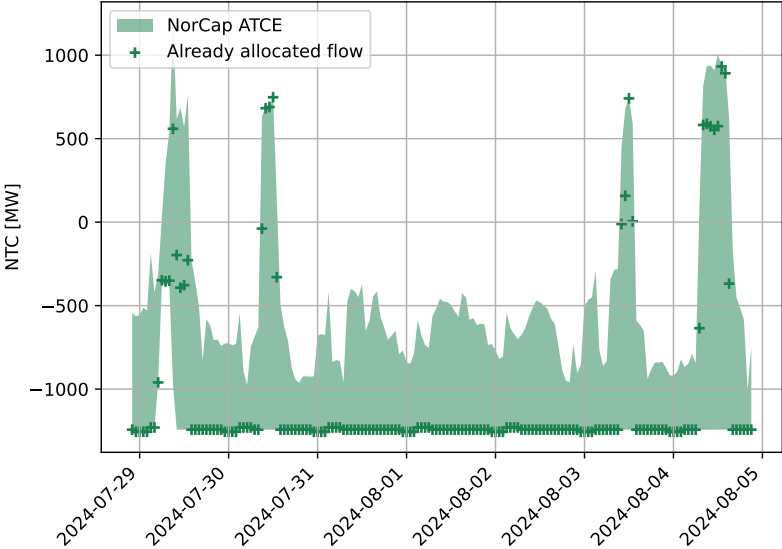
SE3-DK1

NTC SE3-DK1



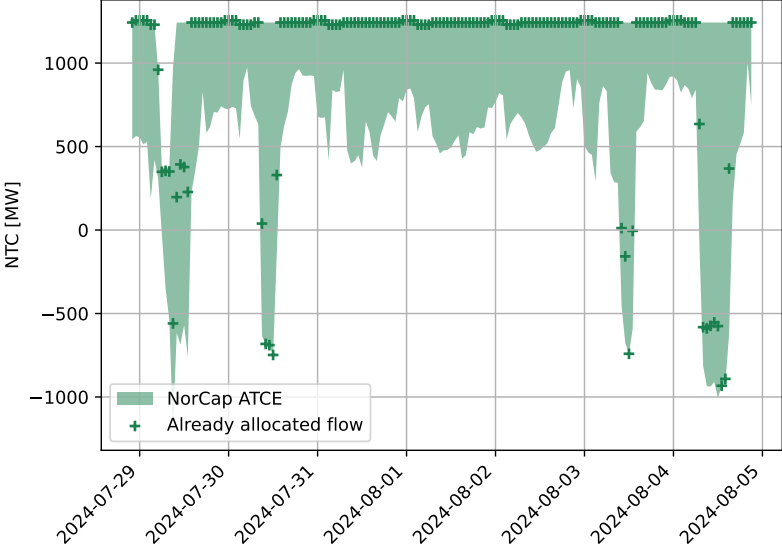
DK2-SE4

NTC DK2-SE4

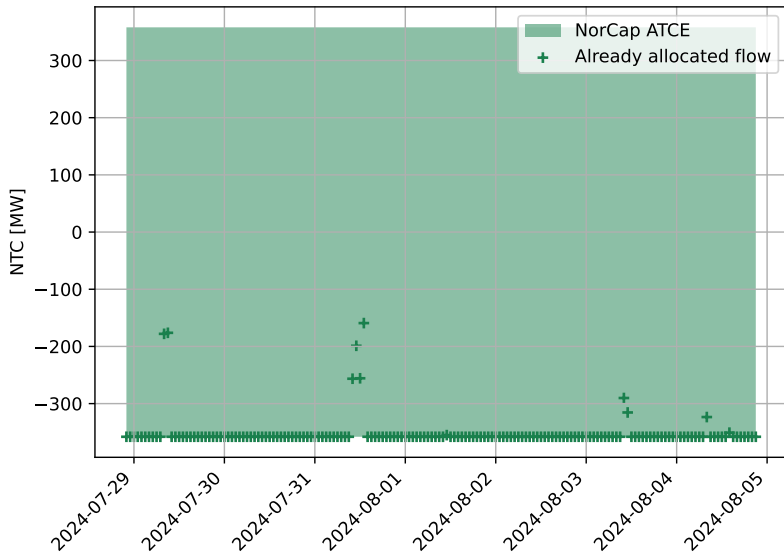


SE4-DK2

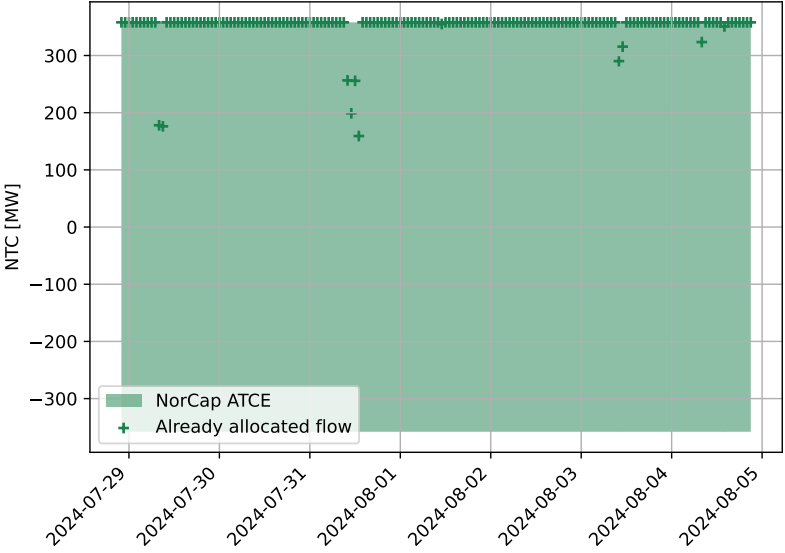
NTC SE4-DK2



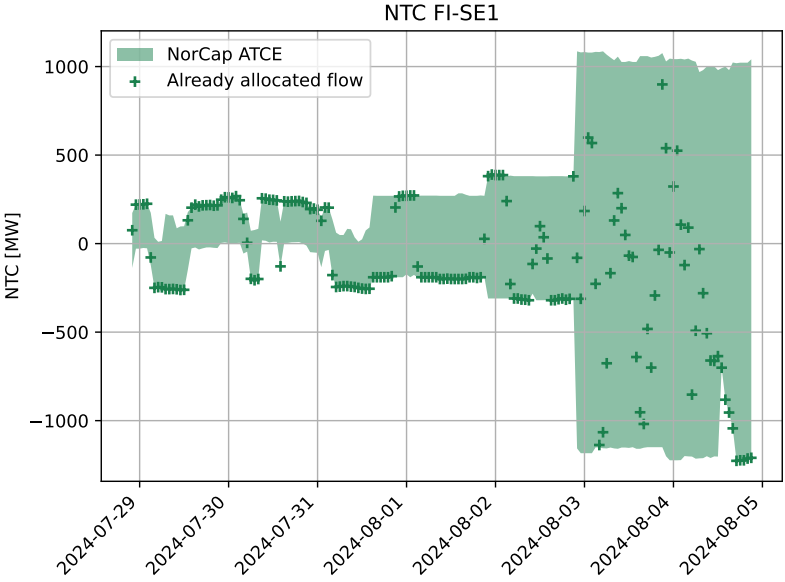
NTC EE-FI



NTC FI-EE

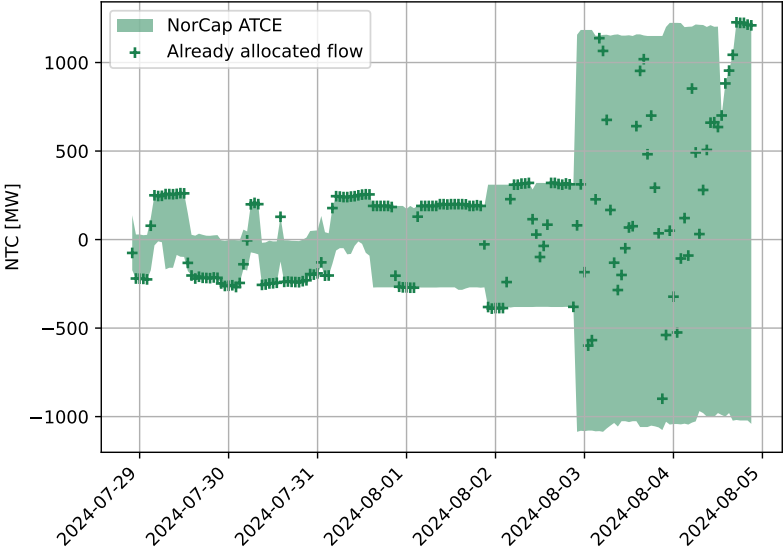


FI-SE1



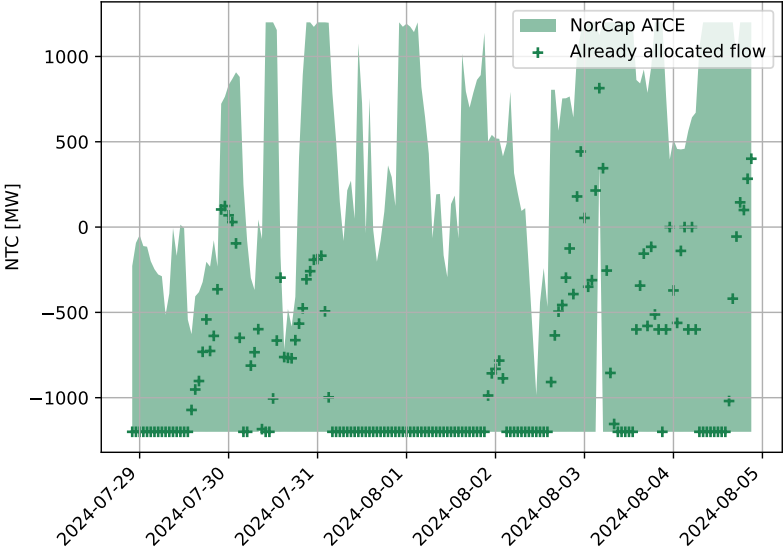
SE1-FI

NTC SE1-FI



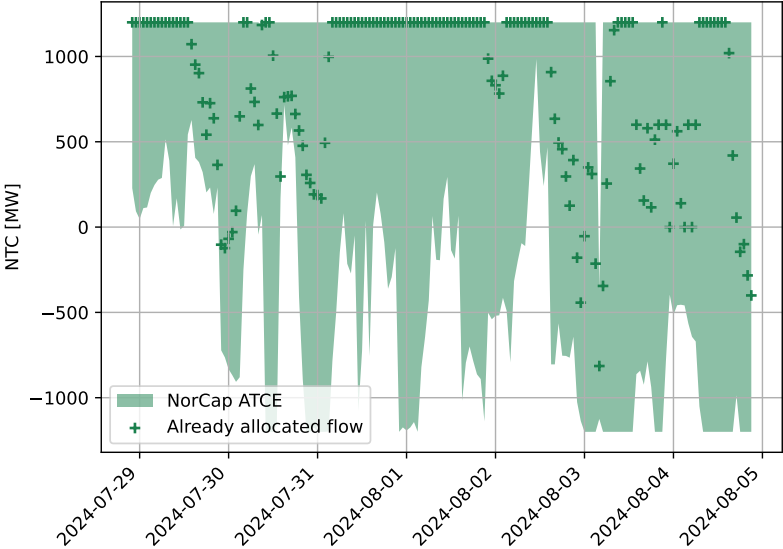
FI-SE3

NTC FI-SE3



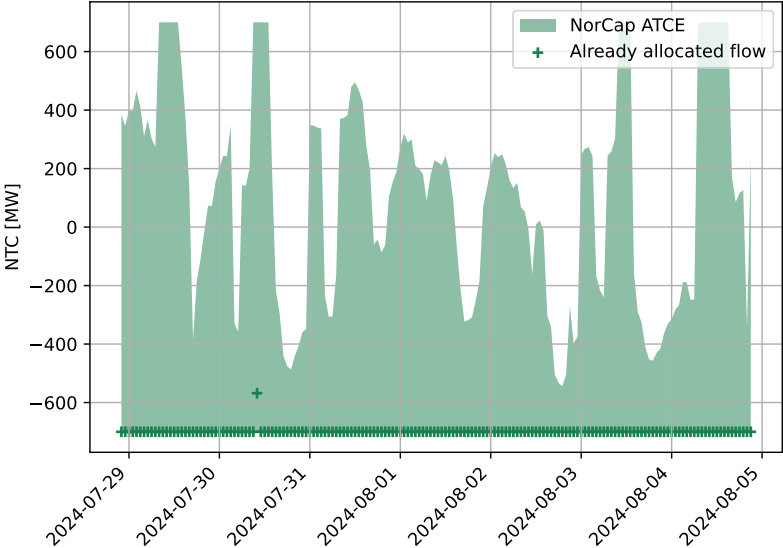
SE3-FI

NTC SE3-FI



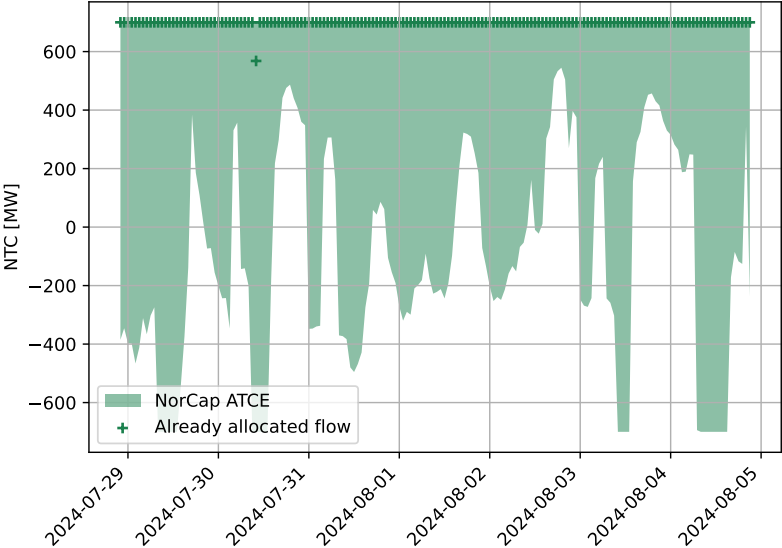
LT-SE4

NTC LT-SE4



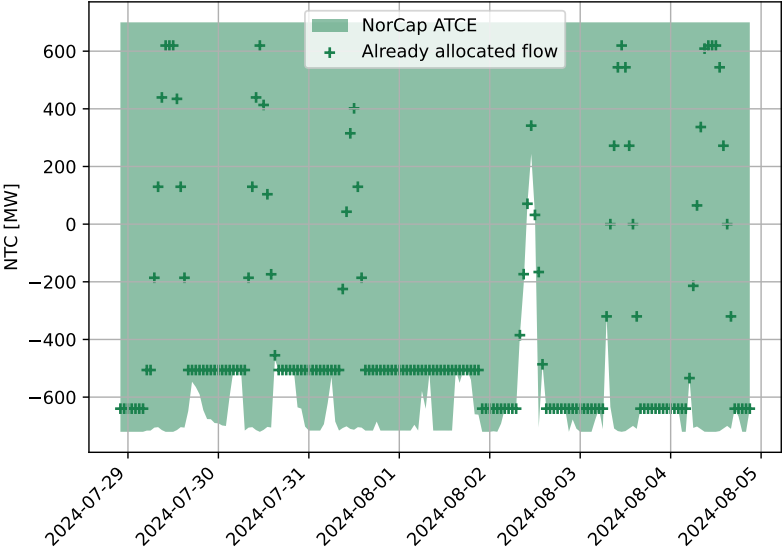
SE4-LT

NTC SE4-LT



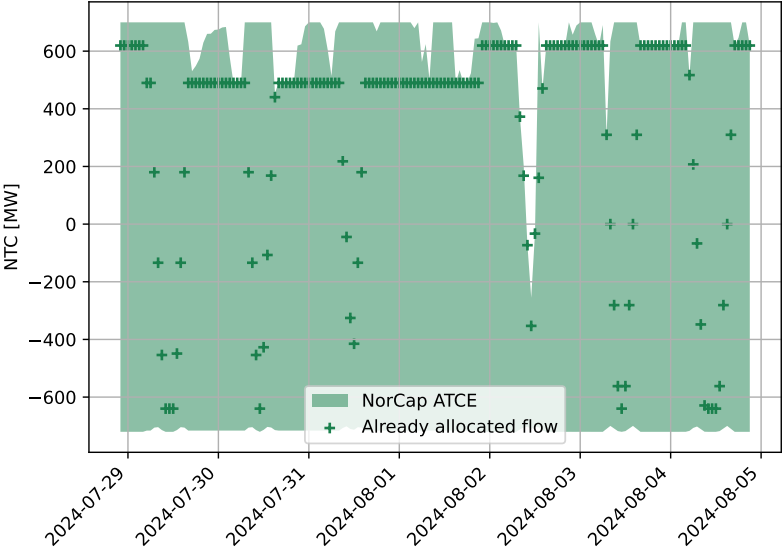
NL-NO2

NTC NL-NO2



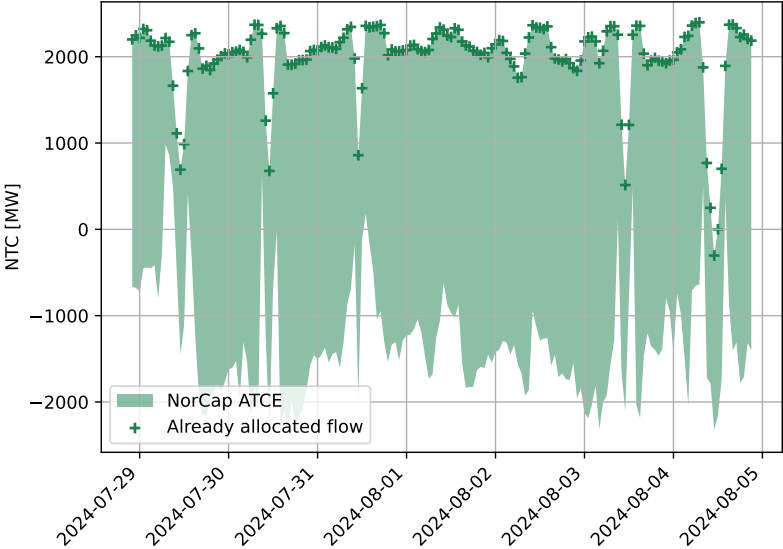
NO2-NL

NTC NO2-NL



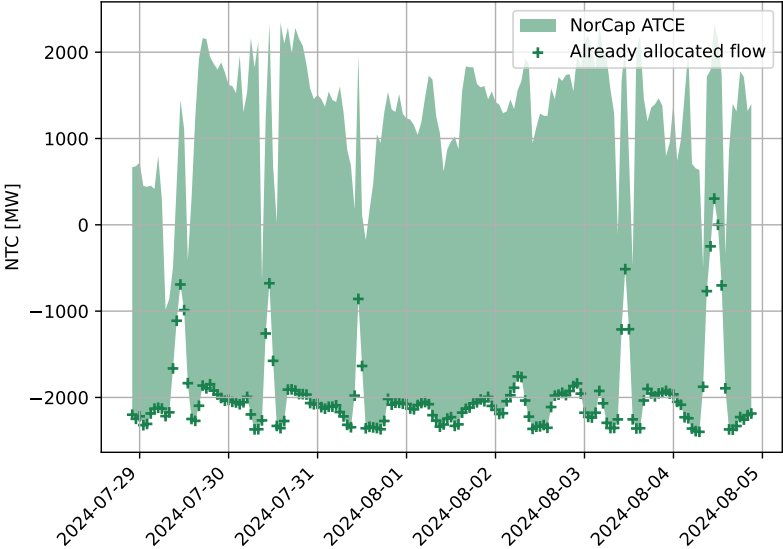
NO1-NO2

NTC NO1-NO2



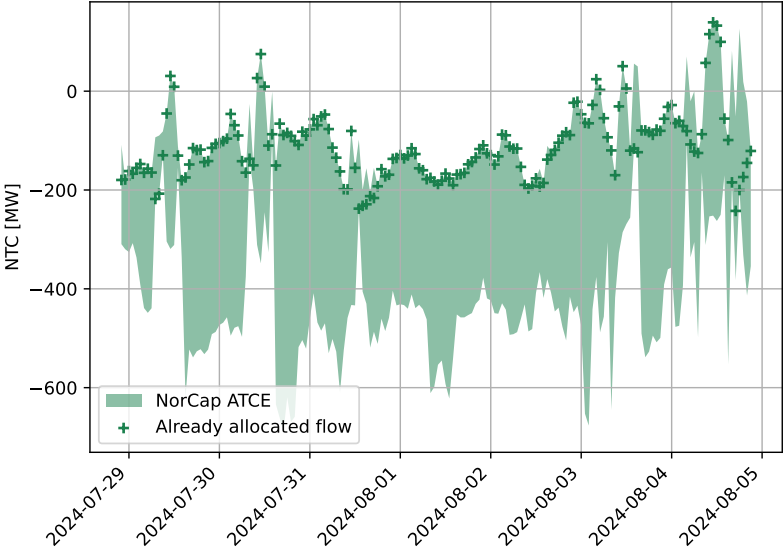
NO2-NO1

NTC NO2-NO1



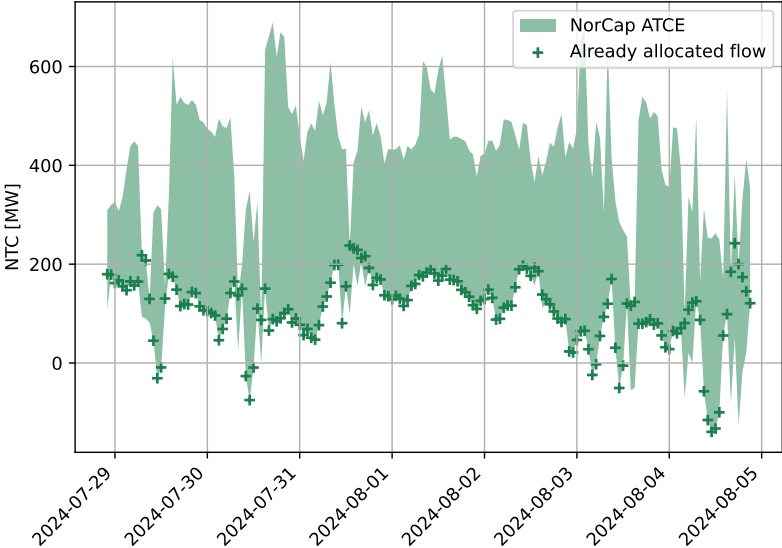
NO1-NO3

NTC NO1-NO3



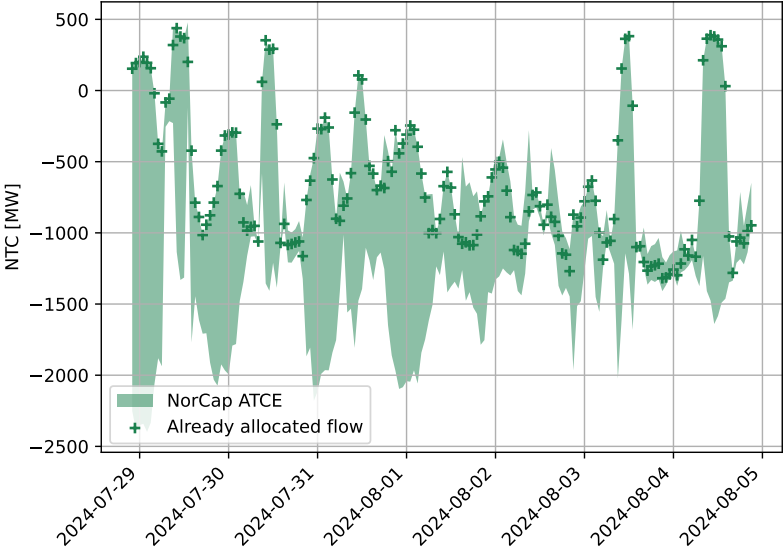
NO3-NO1

NTC NO3-NO1



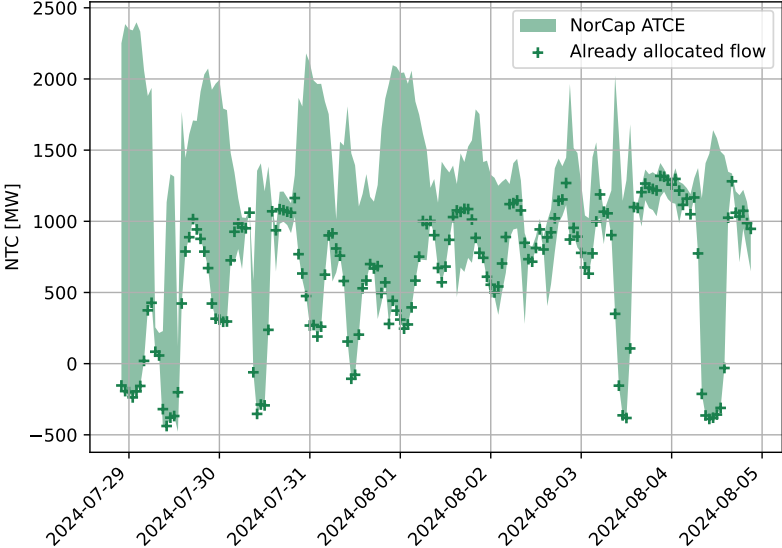
NO1-NO5

NTC NO1-NO5



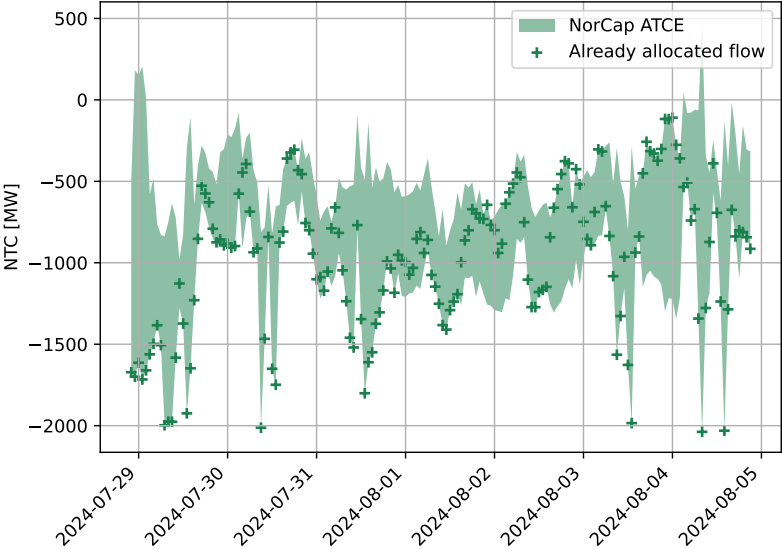
NO5-NO1

NTC NO5-NO1



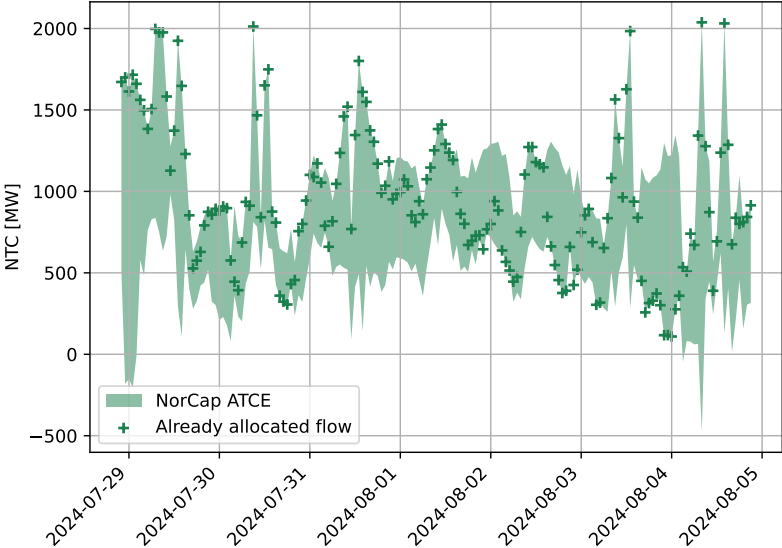
NO1-SE3

NTC NO1-SE3



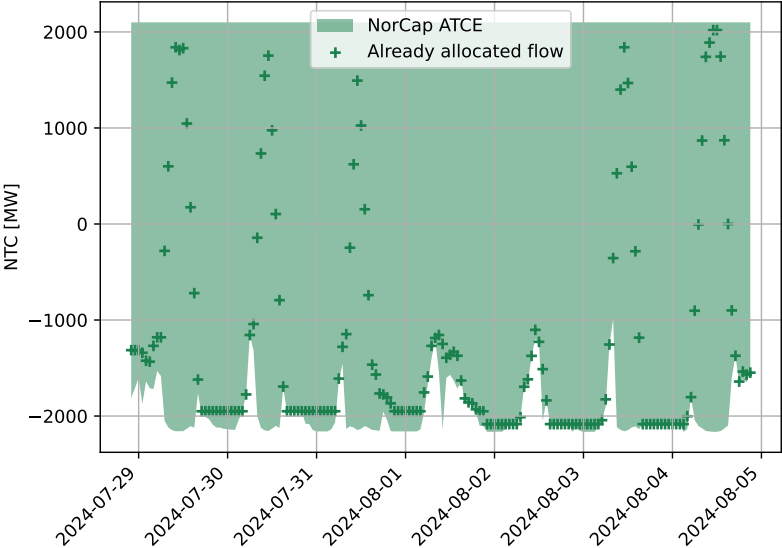
SE3-NO1

NTC SE3-NO1

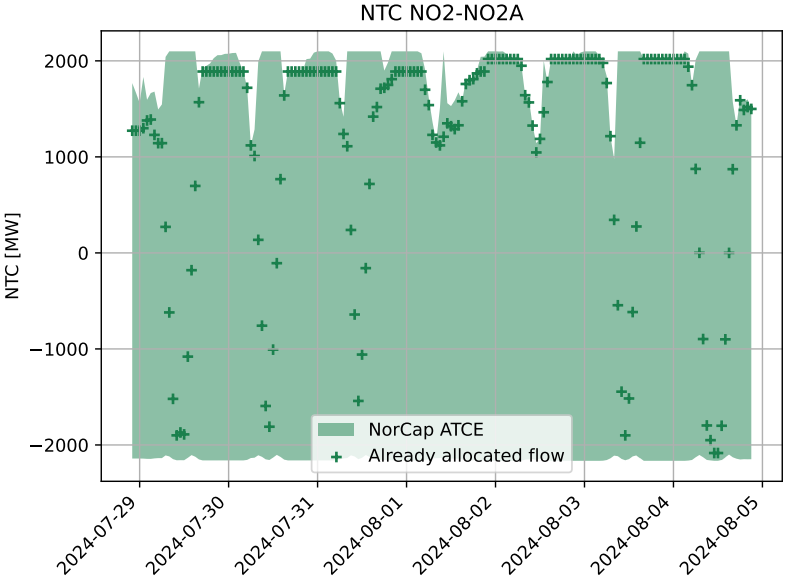


NO2A-NO2

NTC NO2A-NO2

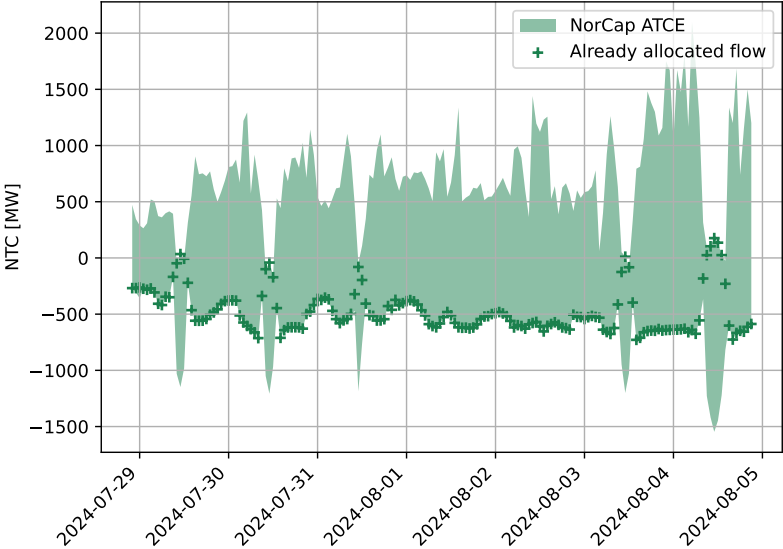


NO2-NO2A



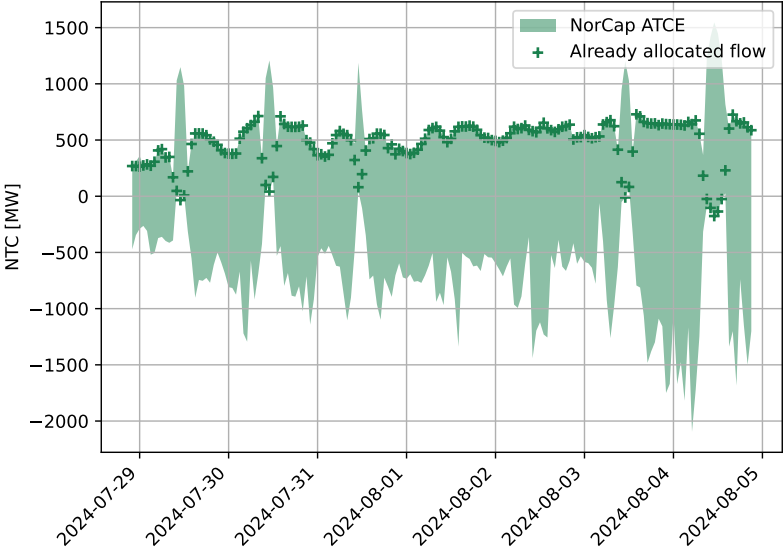
NO2-NO5

NTC NO2-NO5



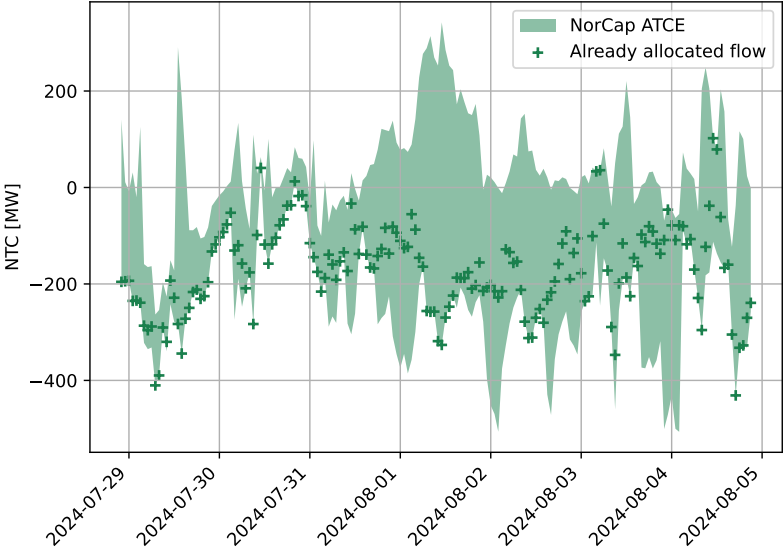
NO5-NO2

NTC NO5-NO2



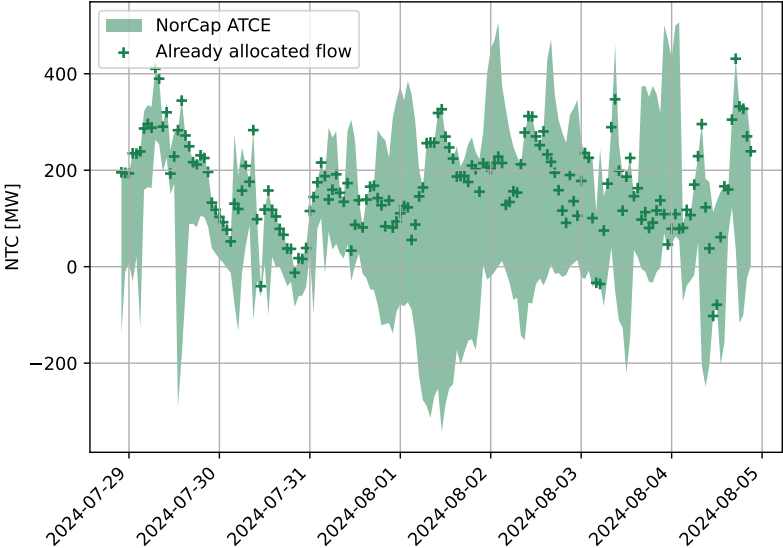
NO3-NO4

NTC NO3-NO4



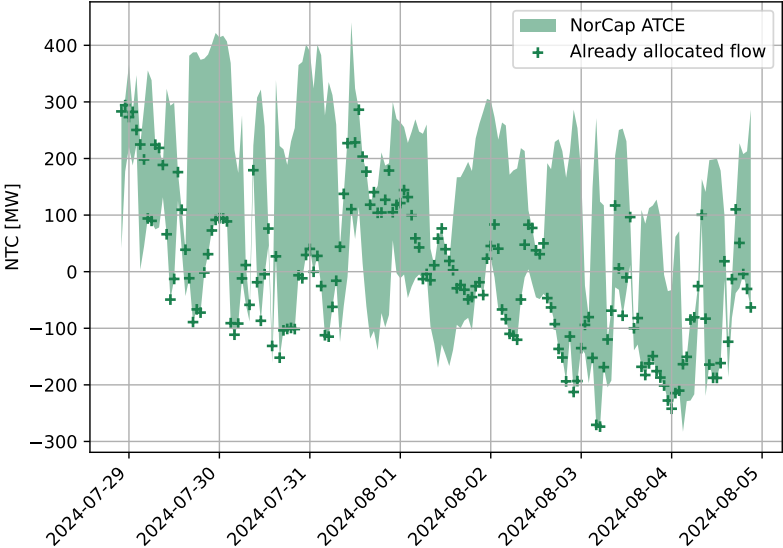
NO4-NO3

NTC NO4-NO3



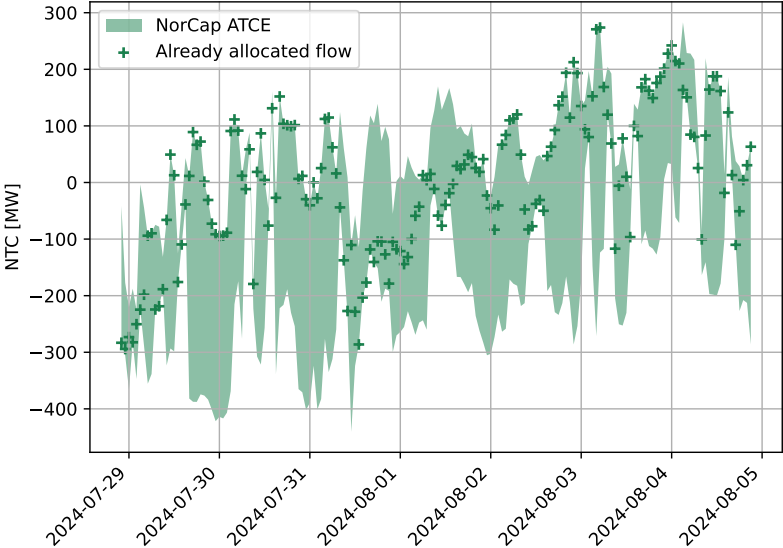
NO3-NO5

NTC NO3-NO5



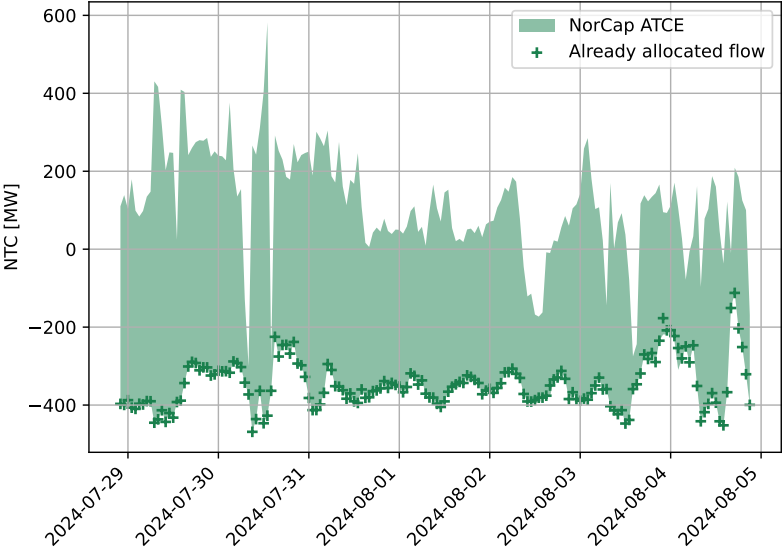
NO5-NO3

NTC NO5-NO3



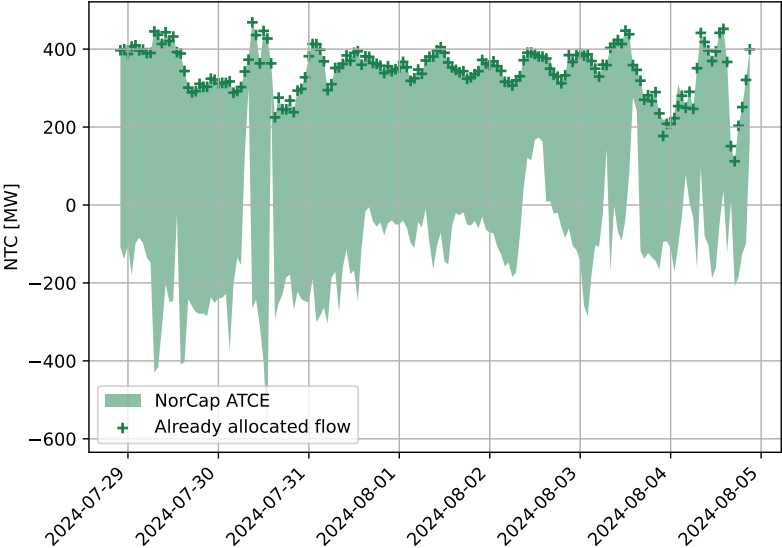
NO3-SE2

NTC NO3-SE2



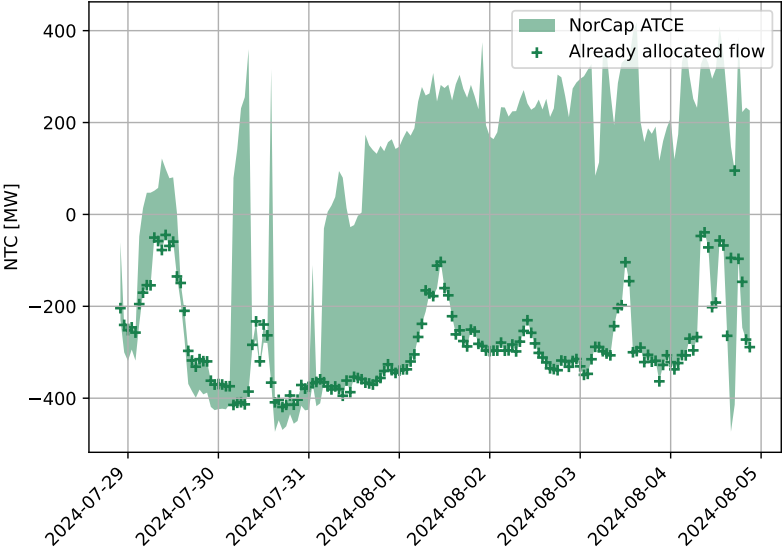
SE2-NO3

NTC SE2-NO3



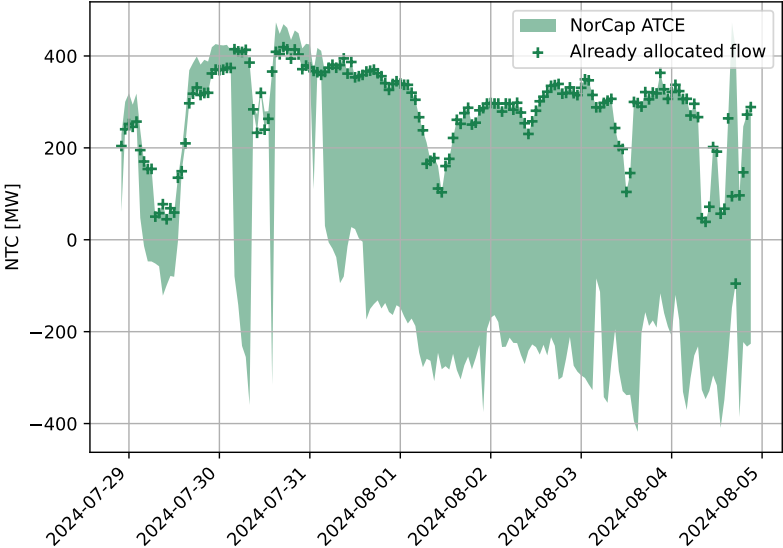
NO4-SE1

NTC NO4-SE1



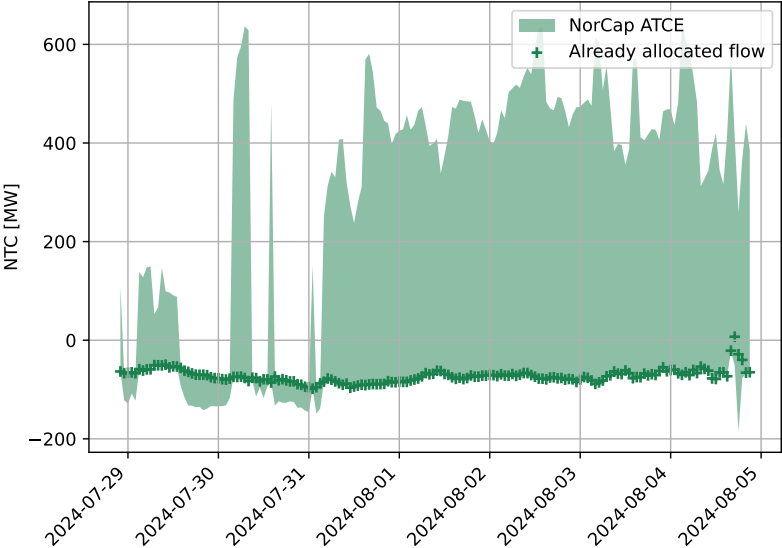
SE1-NO4

NTC SE1-NO4



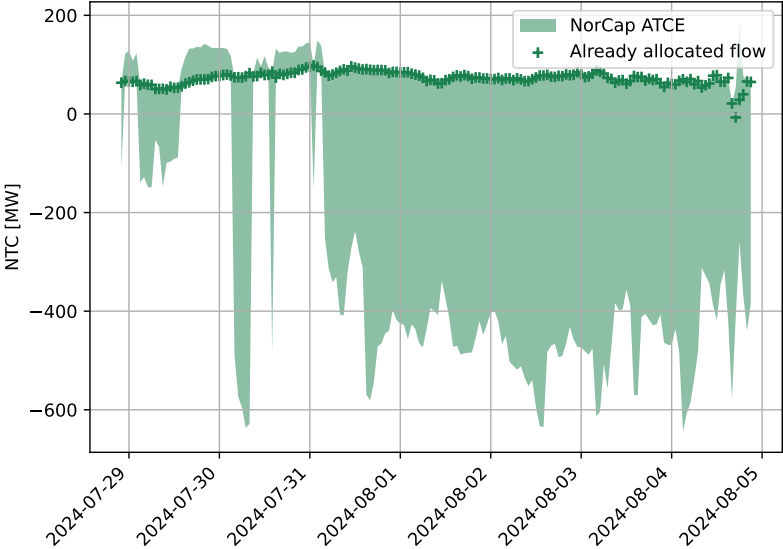
NO4-SE2

NTC NO4-SE2

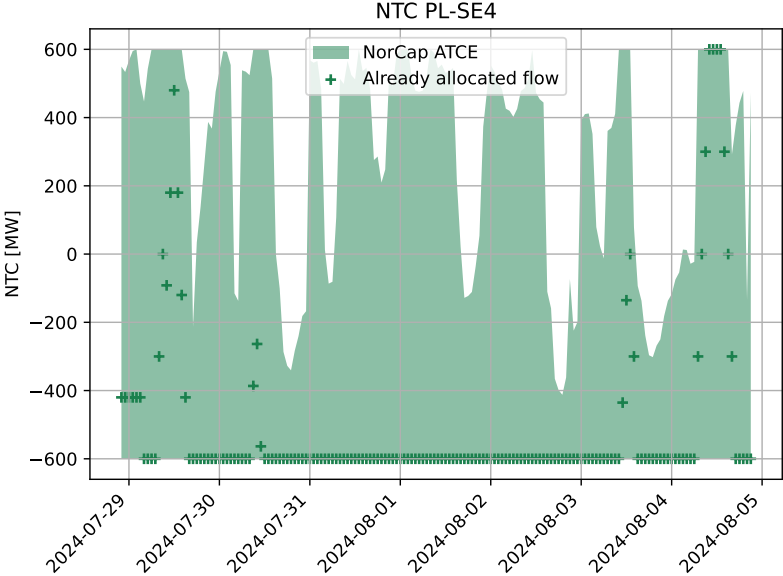


SE2-NO4

NTC SE2-NO4

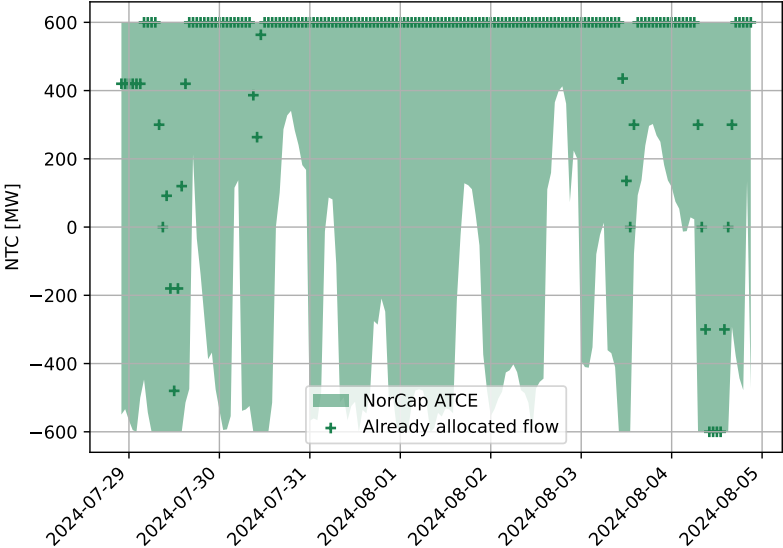


PL-SE4



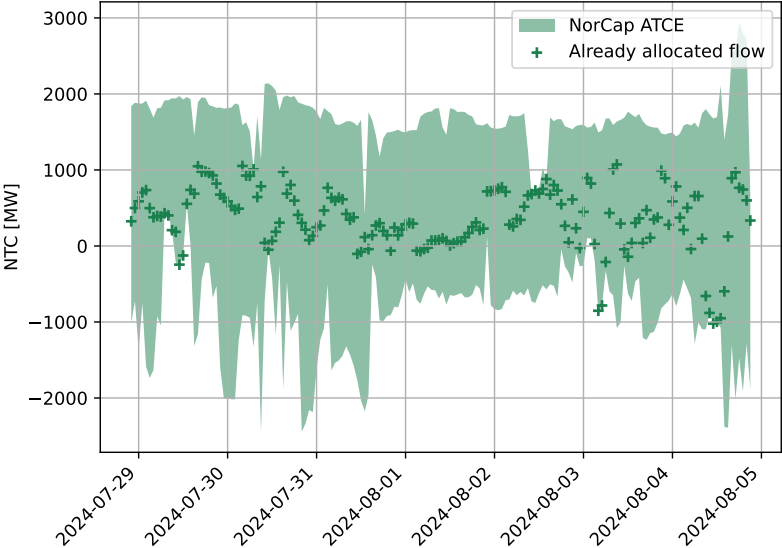
SE4-PL

NTC SE4-PL



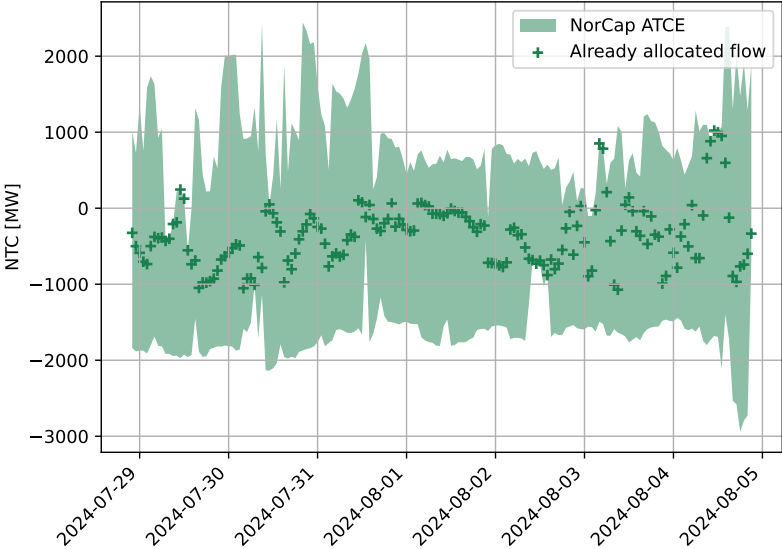
SE1-SE2

NTC SE1-SE2



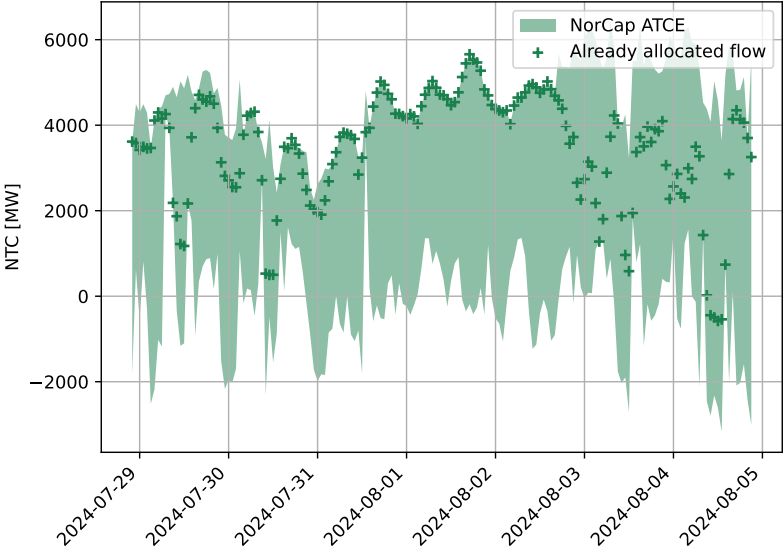
SE2-SE1

NTC SE2-SE1



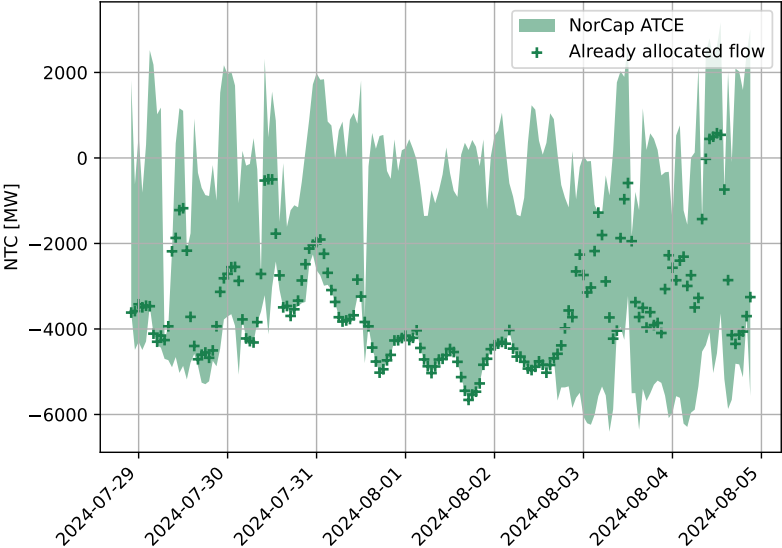
SE2-SE3

NTC SE2-SE3

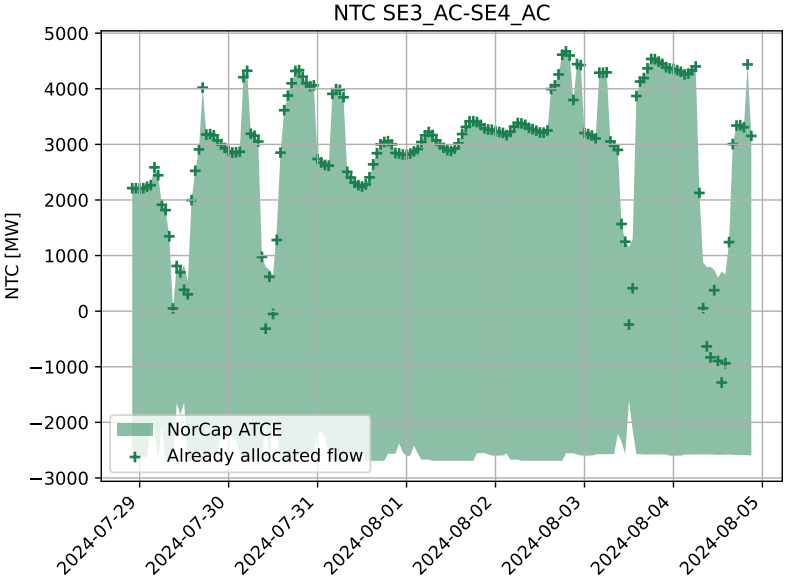


SE3-SE2

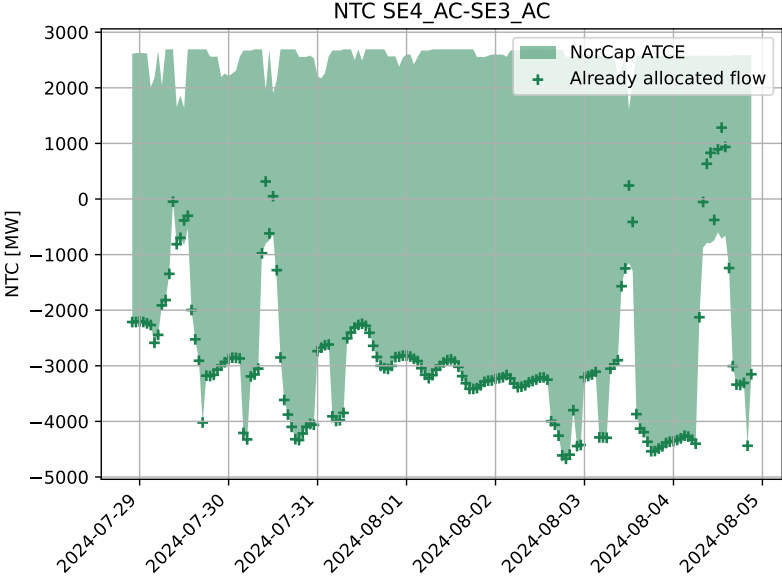
NTC SE3-SE2



SE3_AC-SE4_AC

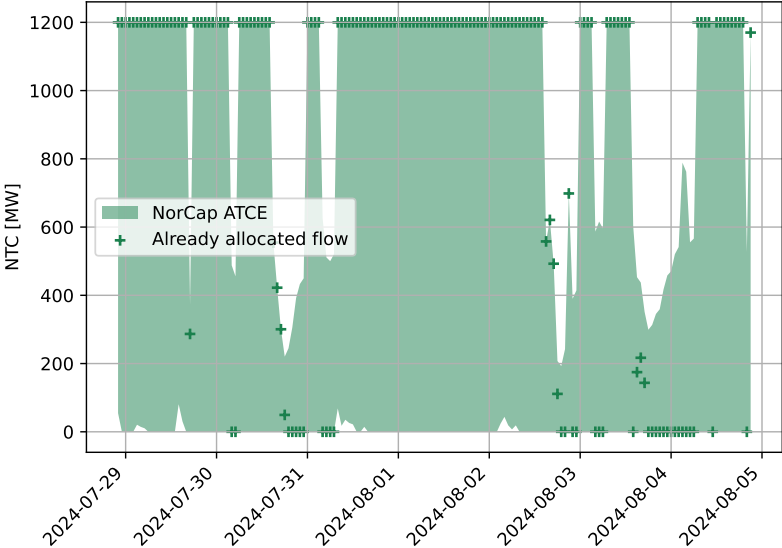


SE4_AC-SE3_AC

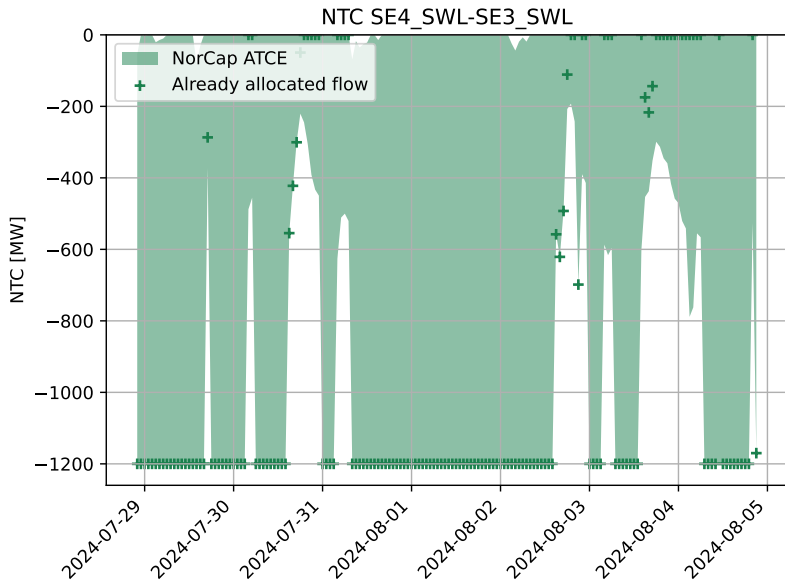


SE3_SWL-SE4_SWL

NTC SE3_SWL-SE4_SWL

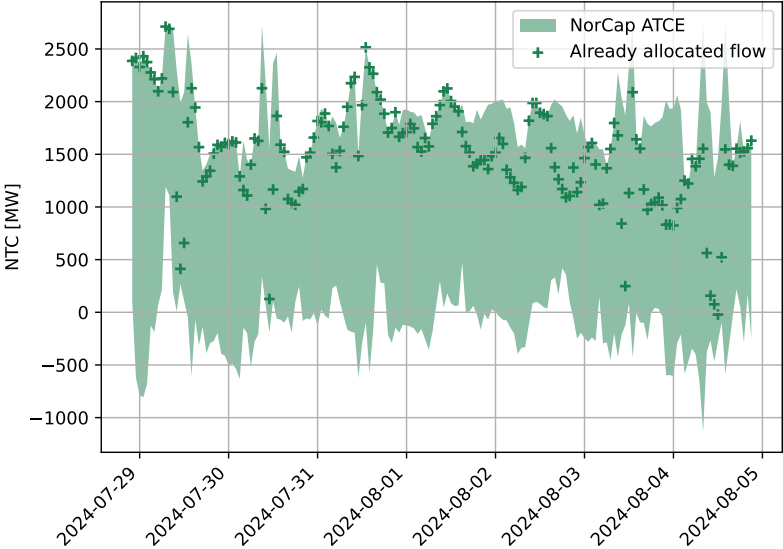


SE4_SWL-SE3_SWL



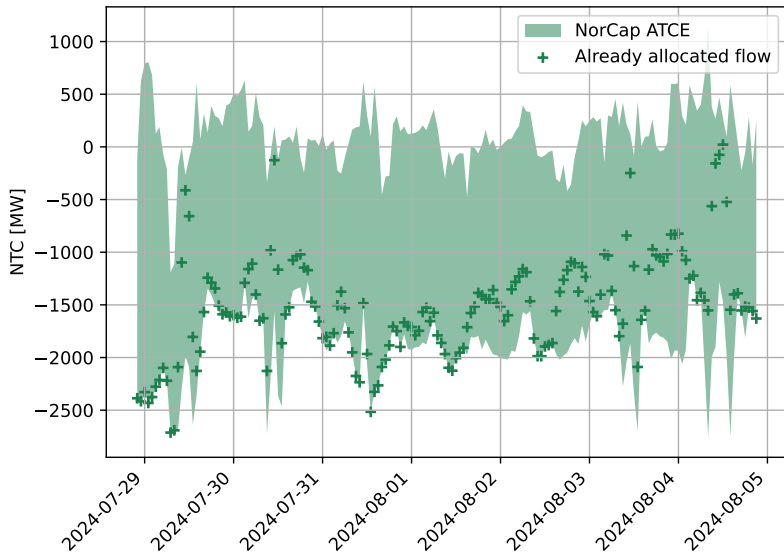
SE3A-SE3

NTC SE3A-SE3



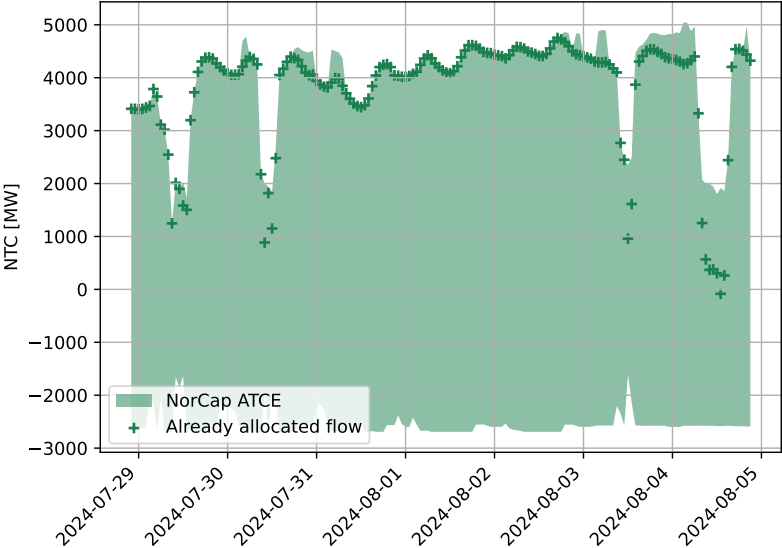
SE3-SE3A

NTC SE3-SE3A



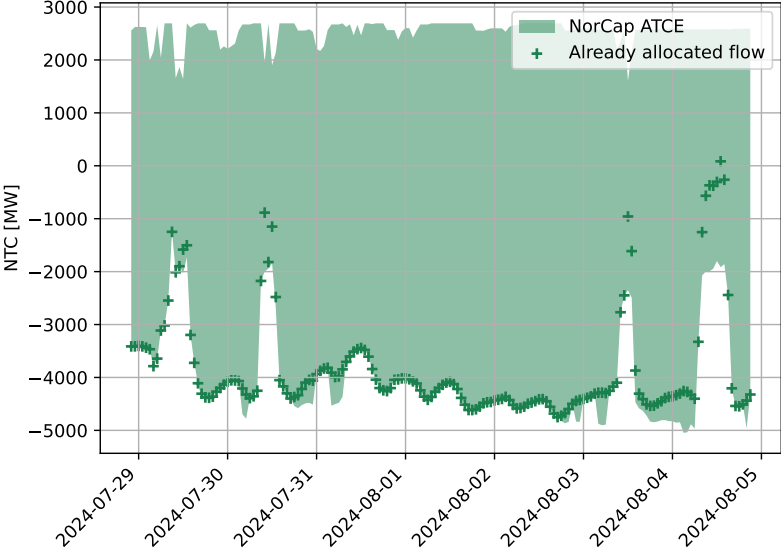
SE3-SE4

NTC SE3-SE4



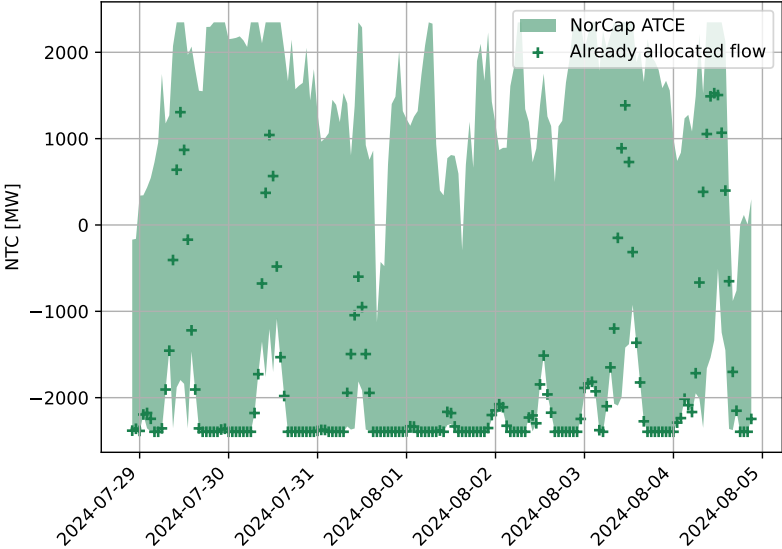
SE4-SE3

NTC SE4-SE3

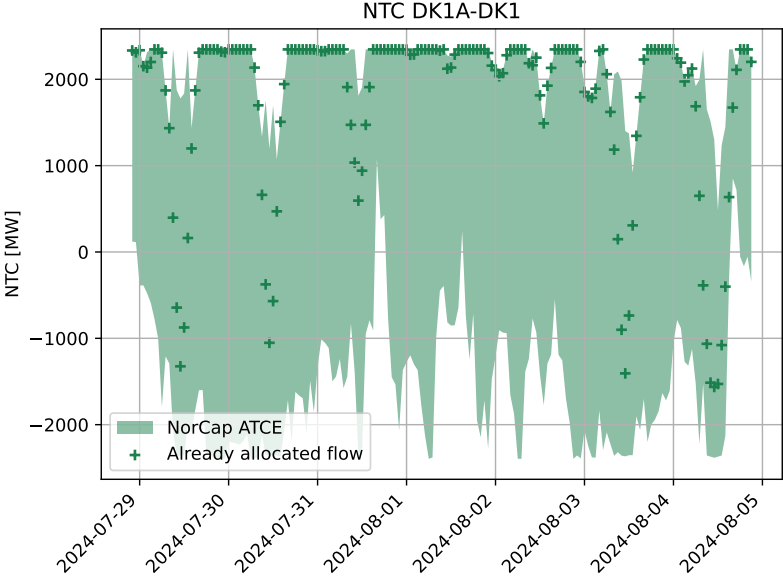


DK1-DK1A

NTC DK1-DK1A



DK1A-DK1



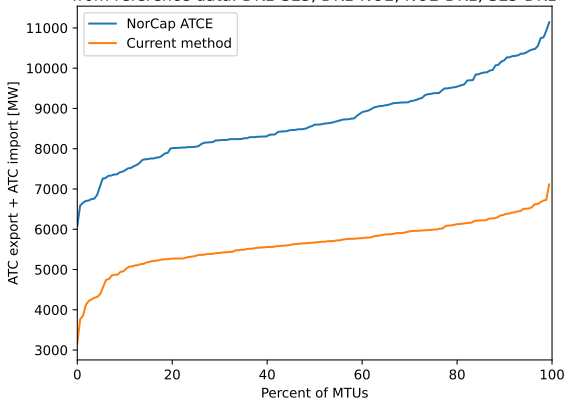
Bidding zone trading space

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.

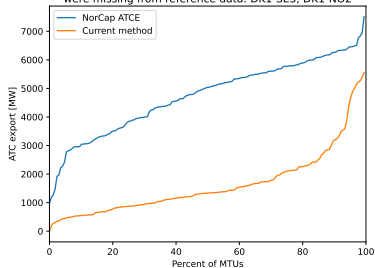
DK1 - Total trading space

ATC trading space BZ: DK1 Note! Data for following borders were missing from reference data: DK1-SE3, DK1-NO2, NO2-DK1, SE3-DK1

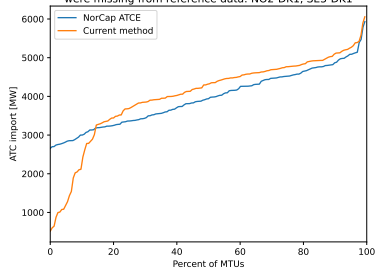


DK1 - Directional trading space

Exporting ATC trading space BZ: DK1 Note! Data for following borders were missing from reference data: DK1-SE3, DK1-NO2

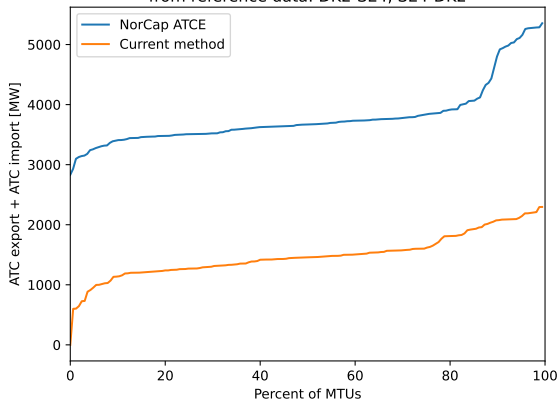


Importing ATC trading space BZ: DK1 Note! Data for following borders were missing from reference data: NO2-DK1, SE3-DK1



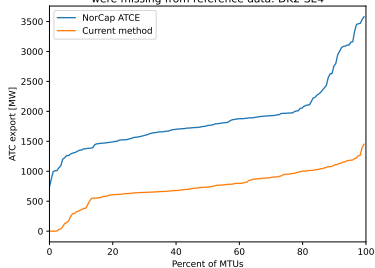
DK2 - Total trading space

ATC trading space BZ: DK2 Note! Data for following borders were missing from reference data: DK2-SE4, SE4-DK2

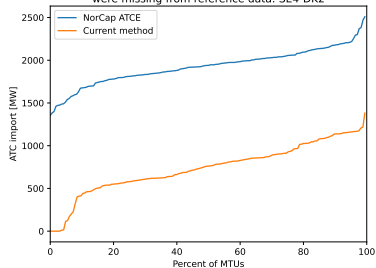


DK2 - Directional trading space

Exporting ATC trading space BZ: DK2 Note! Data for following borders were missing from reference data: DK2-SE4

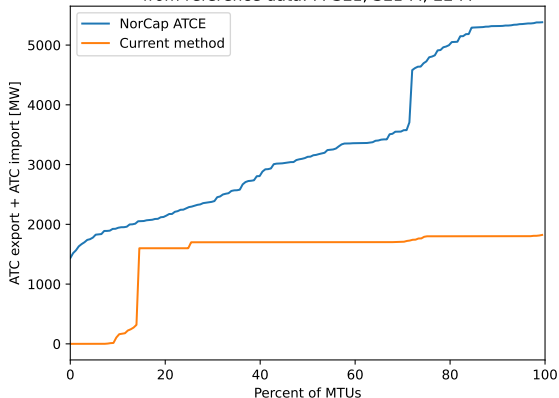


Importing ATC trading space BZ: DK2 Note! Data for following borders were missing from reference data: SE4-DK2



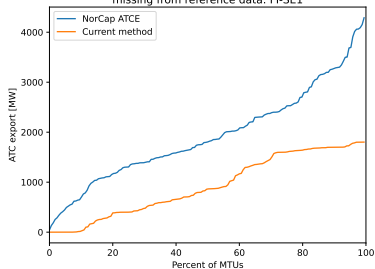
FI - Total trading space

ATC trading space BZ: FI Note! Data for following borders were missing from reference data: FI-SE1, SE1-FI, EE-FI

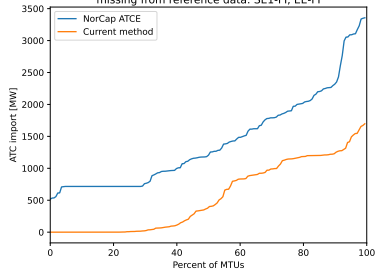


FI - Directional trading space

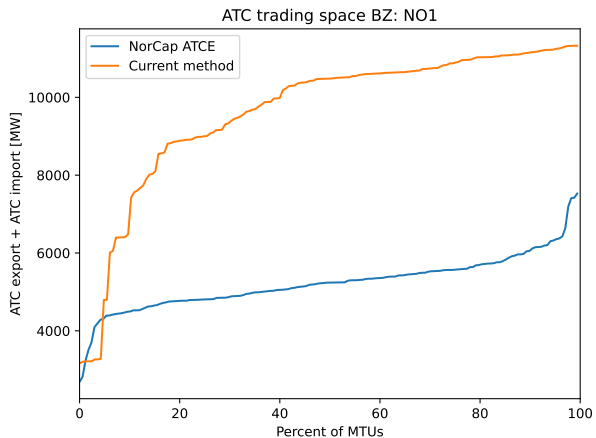
Exporting ATC trading space BZ: FI Note! Data for following borders were missing from reference data: FI-SE1



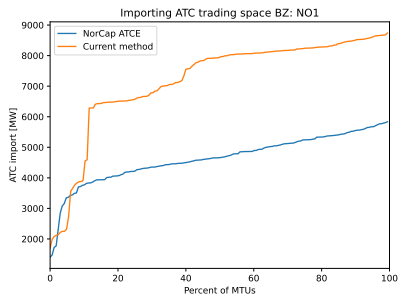
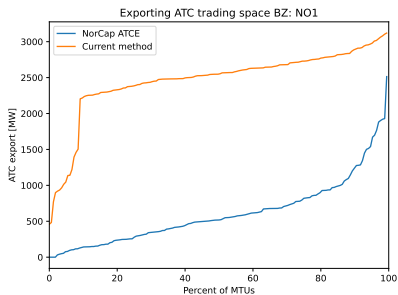
Importing ATC trading space BZ: FI Note! Data for following borders were missing from reference data: SE1-FI, EE-FI



NO1 - Total trading space

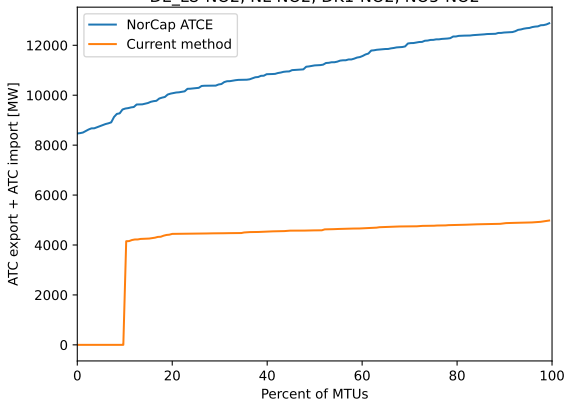


NO1 - Directional trading space



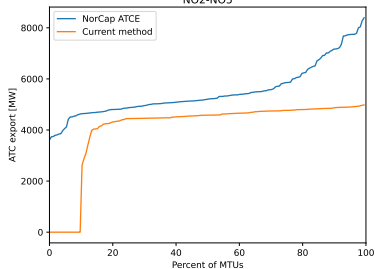
NO2 - Total trading space

ATC trading space BZ: NO2 Note! Data for following borders were missing from reference data: NO2-DE_LU, NO2-DK1, NO2-NL, NO2-NO5, DE_LU-NO2, NL-NO2, DK1-NO2, NO5-NO2

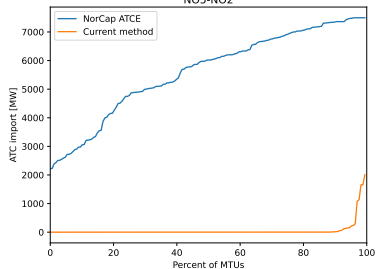


NO2 - Directional trading space

Exporting ATC trading space BZ: NO2 Note! Data for following borders were missing from reference data: NO2-DE_LU, NO2-DK1, NO2-NL, NO2-NO5

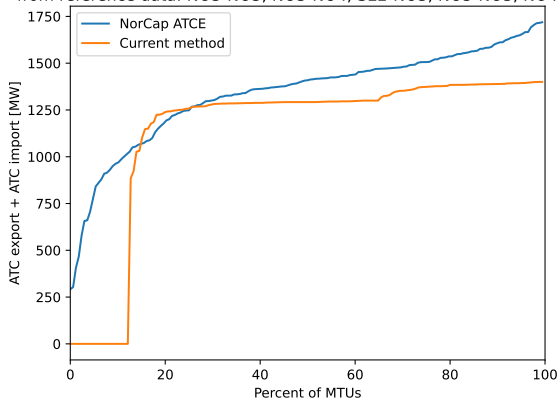


Importing ATC trading space BZ: NO2 Note! Data for following borders were missing from reference data: DE_LU-NO2, NL-NO2, DK1-NO2, NO5-NO2



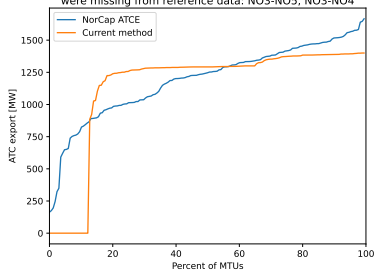
NO3 - Total trading space

ATC trading space BZ: NO3 Note! Data for following borders were missing from reference data: NO3-NO5, NO3-NO4, SE2-NO3, NO5-NO3, NO4-NO3

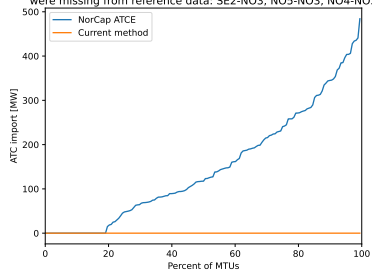


NO3 - Directional trading space

Exporting ATC trading space BZ: NO3 Note! Data for following borders were missing from reference data: NO3-NO5, NO3-NO4

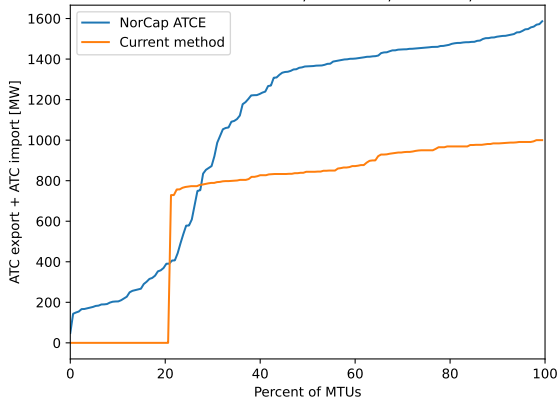


Importing ATC trading space BZ: NO3 Note! Data for following borders were missing from reference data: SE2-NO3, NO5-NO3, NO4-NO3



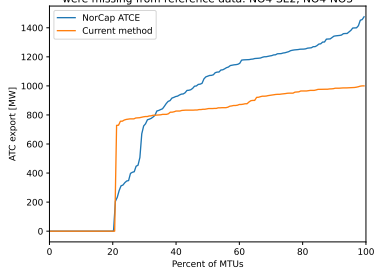
NO4 - Total trading space

ATC trading space BZ: NO4 Note! Data for following borders were missing from reference data: NO4-SE2, NO4-NO3, SE2-NO4, NO3-NO4

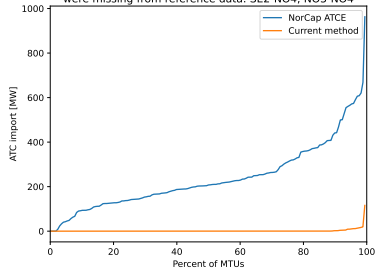


NO4 - Directional trading space

Exporting ATC trading space BZ: NO4 Note! Data for following borders were missing from reference data: NO4-SE2, NO4-NO3

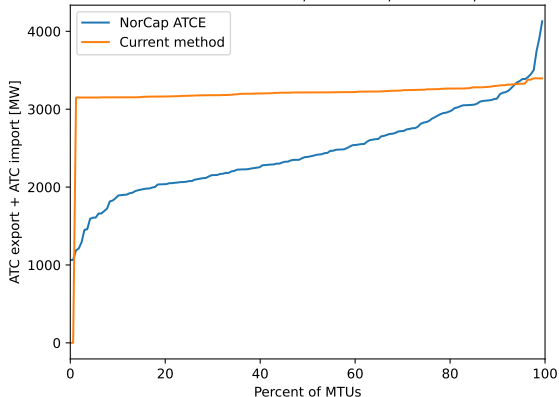


Importing ATC trading space BZ: NO4 Note! Data for following borders were missing from reference data: SE2-NO4, NO3-NO4



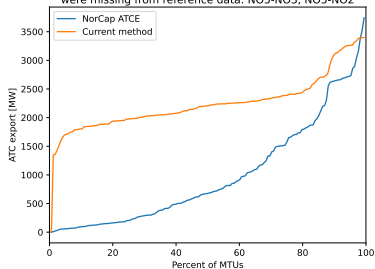
NO5 - Total trading space

ATC trading space BZ: NO5 Note! Data for following borders were missing from reference data: NO5-NO3, NO5-NO2, NO3-NO5, NO2-NO5

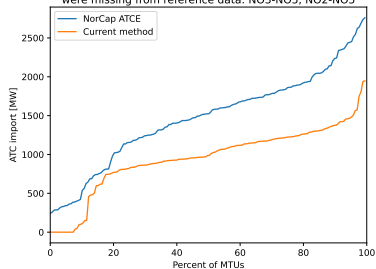


NO5 - Directional trading space

Exporting ATC trading space BZ: NO5 Note! Data for following borders were missing from reference data: NO5-NO3, NO5-NO2

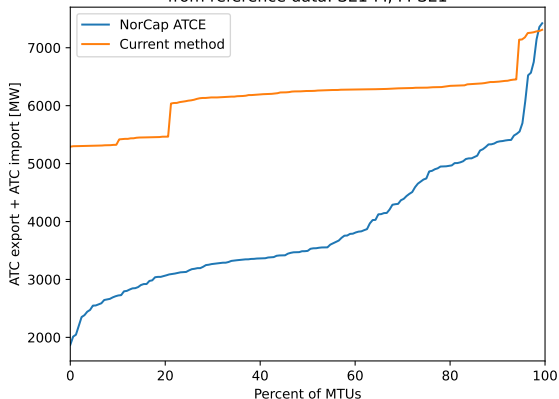


Importing ATC trading space BZ: NO5 Note! Data for following borders were missing from reference data: NO3-NO5, NO2-NO5



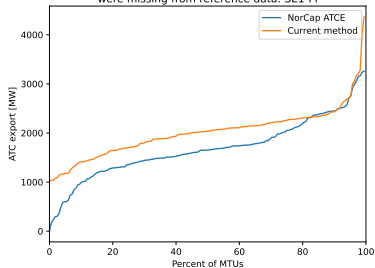
SE1 - Total trading space

ATC trading space BZ: SE1 Note! Data for following borders were missing from reference data: SE1-FI, FI-SE1

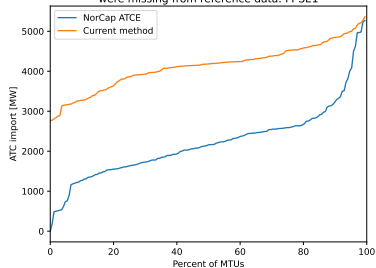


SE1 - Directional trading space

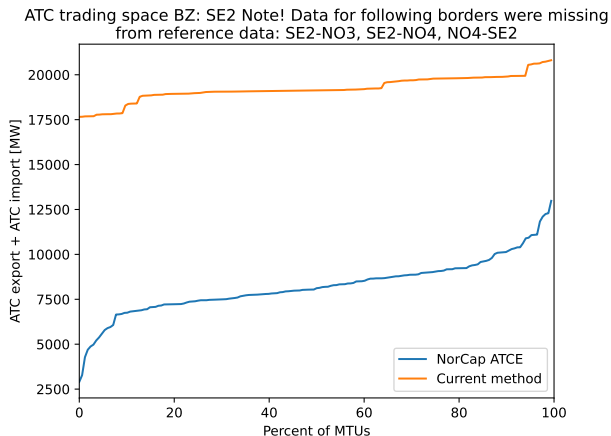
Exporting ATC trading space BZ: SE1 Note! Data for following borders were missing from reference data: SE1-FI



Importing ATC trading space BZ: SE1 Note! Data for following borders were missing from reference data: FI-SE1

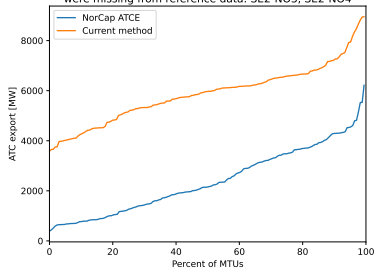


SE2 - Total trading space

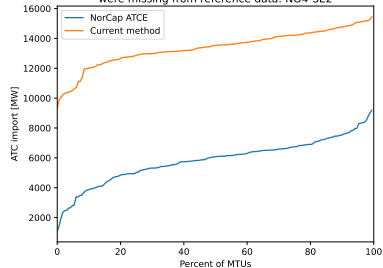


SE2 - Directional trading space

Exporting ATC trading space BZ: SE2 Note! Data for following borders were missing from reference data: SE2-NO3, SE2-NO4

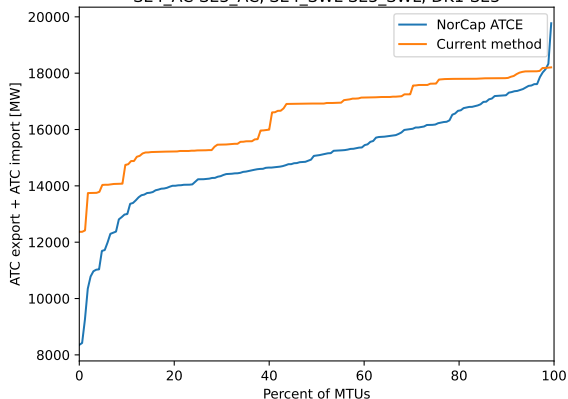


Importing ATC trading space BZ: SE2 Note! Data for following borders were missing from reference data: NO4-SE2



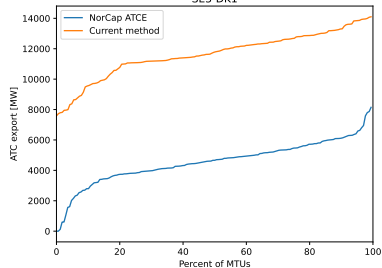
SE3 - Total trading space

ATC trading space BZ: SE3 Note! Data for following borders were missing from reference data: SE3_AC-SE4_AC, SE3_SWL-SE4_SWL, SE3-DK1, SE4_AC-SE3_AC, SE4_SWL-SE3_SWL, DK1-SE3

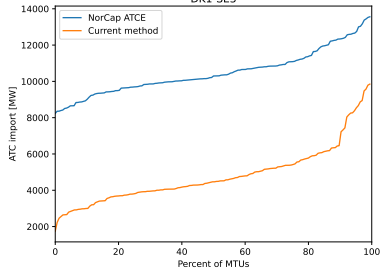


SE3 - Directional trading space

Exporting ATC trading space BZ: SE3 Note! Data for following borders were missing from reference data: SE3_AC-SE4_AC, SE3_SWL-SE4_SWL, SE3-DK1

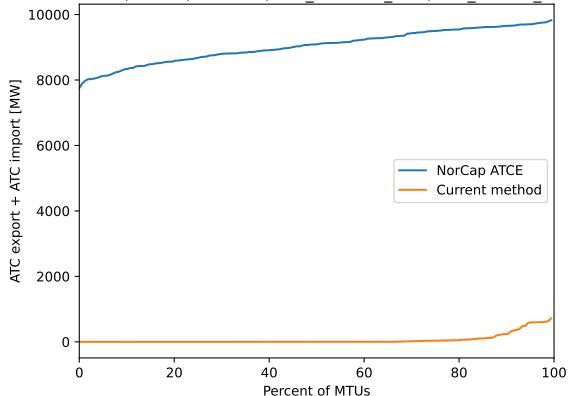


Importing ATC trading space BZ: SE3 Note! Data for following borders were missing from reference data: SE4_AC-SE3_AC, SE4_SWL-SE3_SWL, DK1-SE3



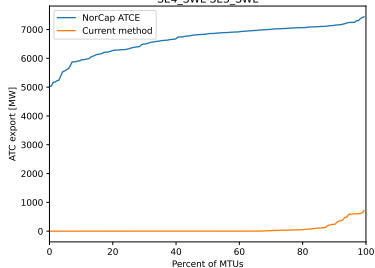
SE4 - Total trading space

ATC trading space BZ: SE4 Note! Data for following borders were missing from reference data: SE4 AC-SE3 AC, SE4-DK2, SE4 SWL-SE3 SWL, PL-SE4, LT-SE4, DK2-SE4, SE3 SWL-SE4 SWL, SE3 AC-SE4 AC

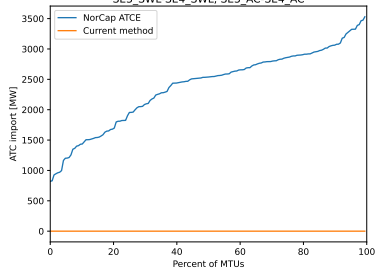


SE4 - Directional trading space

Exporting ATC trading space BZ: SE4 Note! Data for following borders were missing from reference data: SE4_AC-SE3_AC, SE4-DK2, SE4_SWL-SE3_SWL

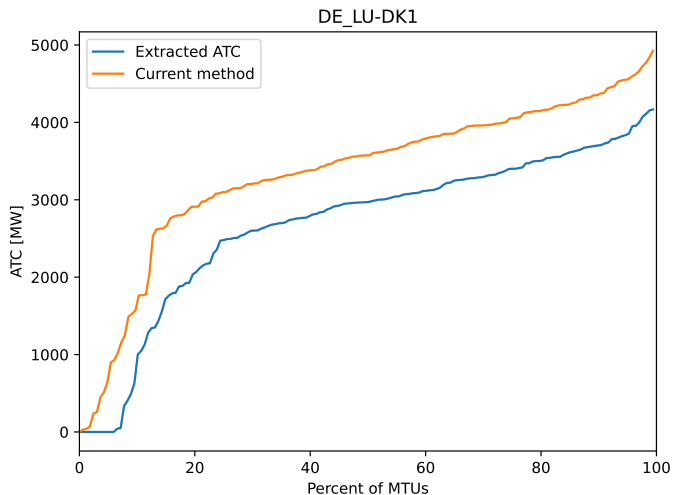


Importing ATC trading space BZ: SE4 Note! Data for following borders were missing from reference data: PL-SE4, LT-SE4, DK2-SE4, SE3_SWL-SE4_SWL, SE3_AC-SE4_AC

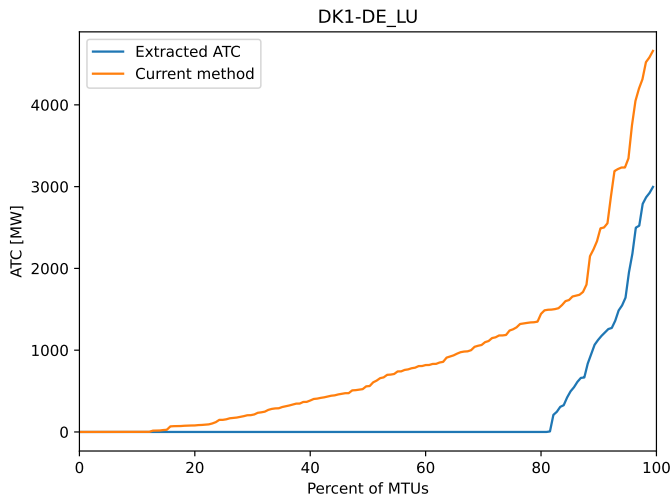


Capacity duration curves

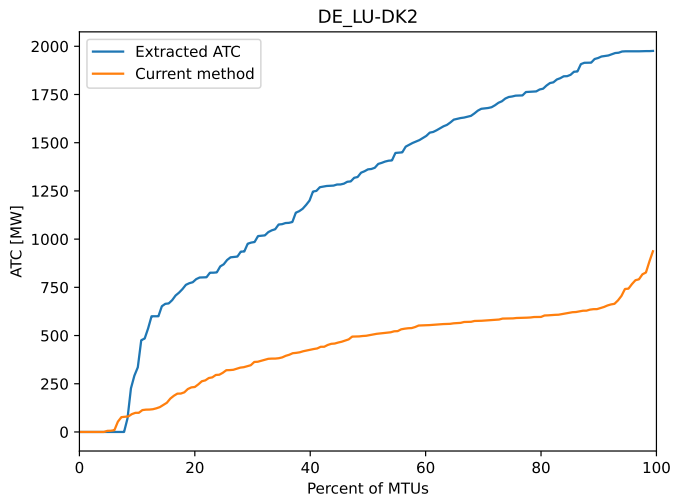
DE_LU-DK1 ATC duration curves



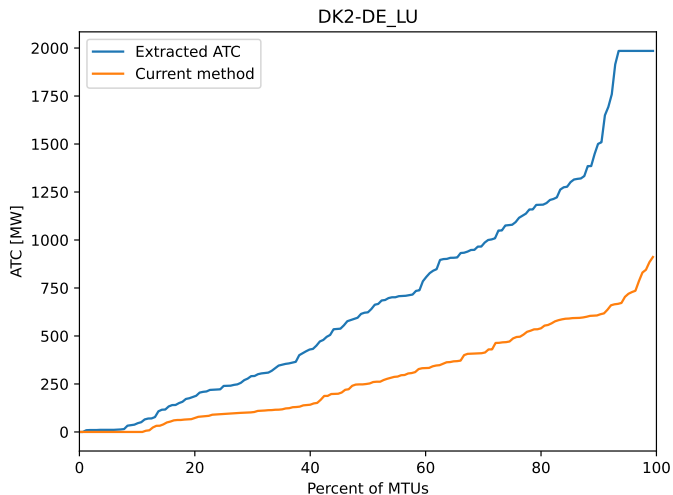
DK1-DE_LU ATC duration curves



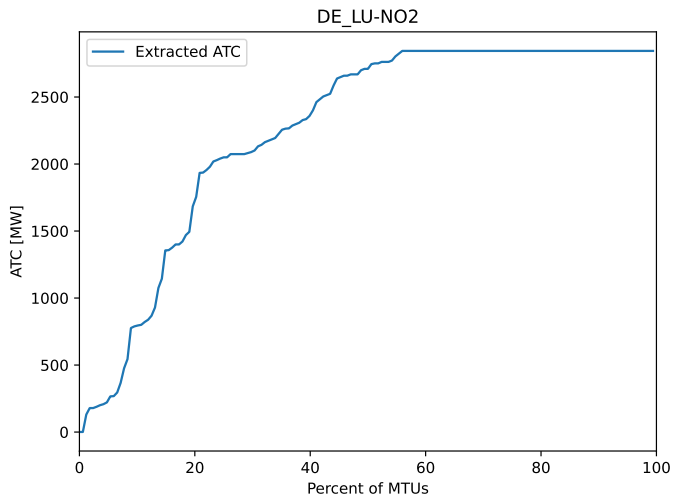
DE_LU-DK2 ATC duration curves



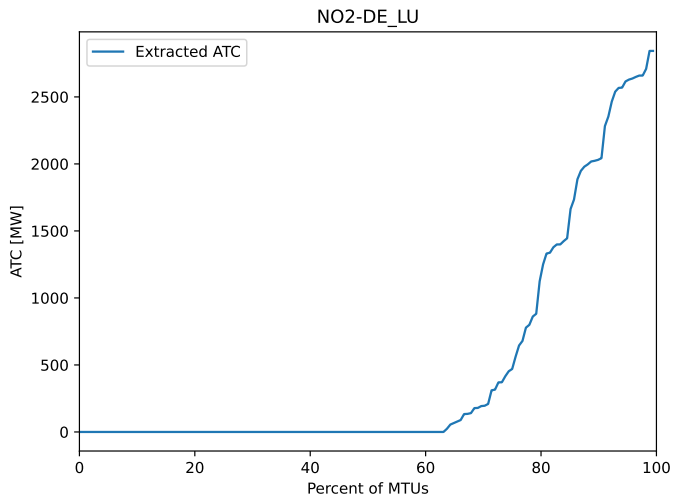
DK2-DE_LU ATC duration curves



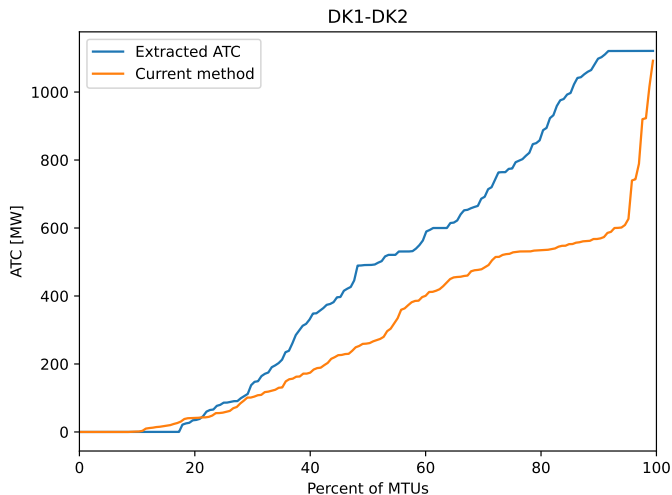
DE_LU-NO2 ATC duration curves



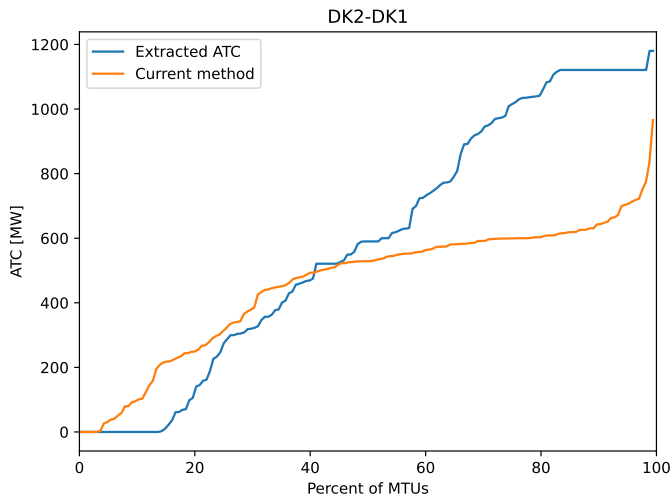
NO2-DE_LU ATC duration curves



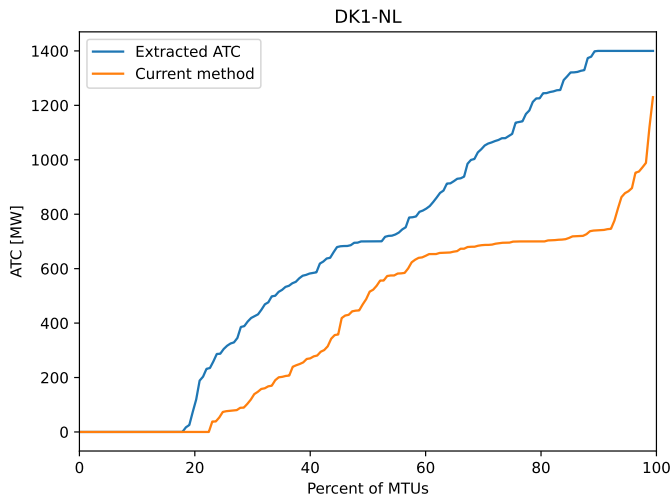
DK1-DK2 ATC duration curves



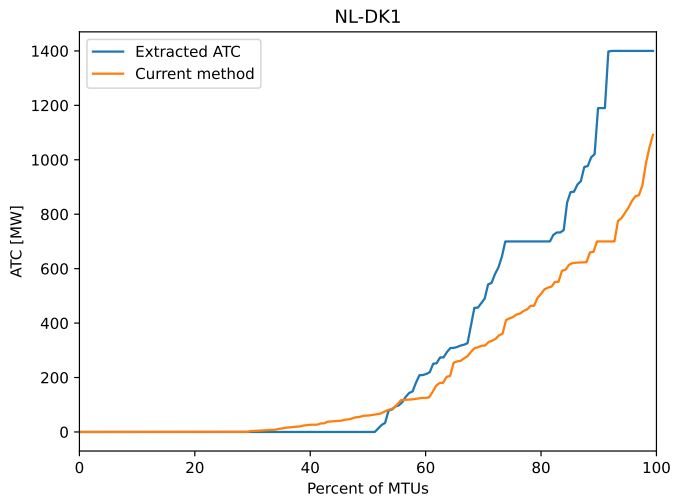
DK2-DK1 ATC duration curves



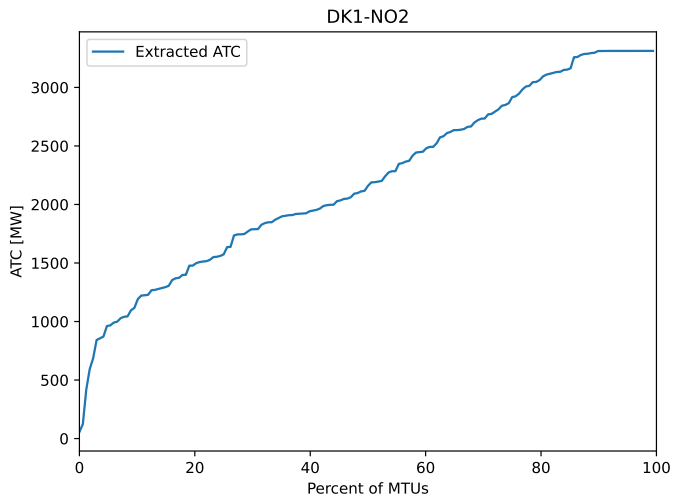
DK1-NL ATC duration curves



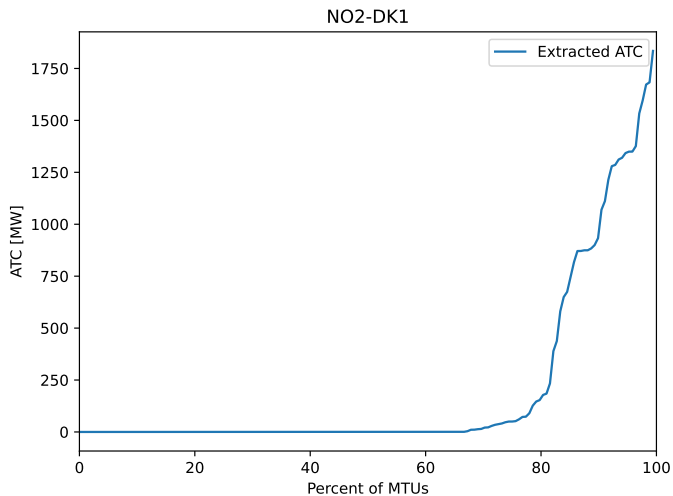
NL-DK1 ATC duration curves



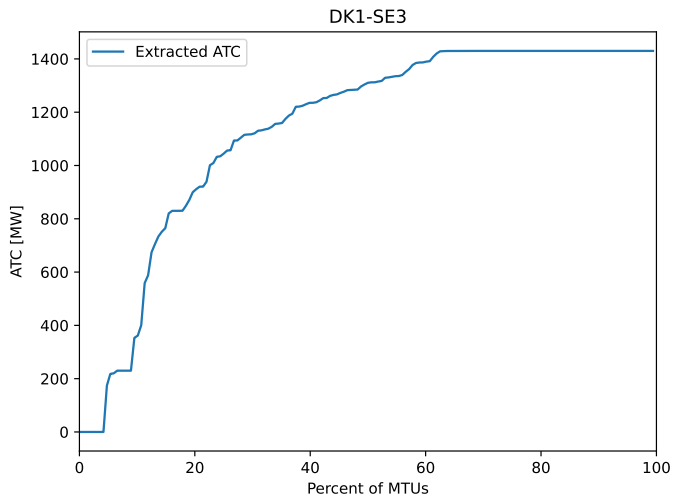
DK1-NO2 ATC duration curves



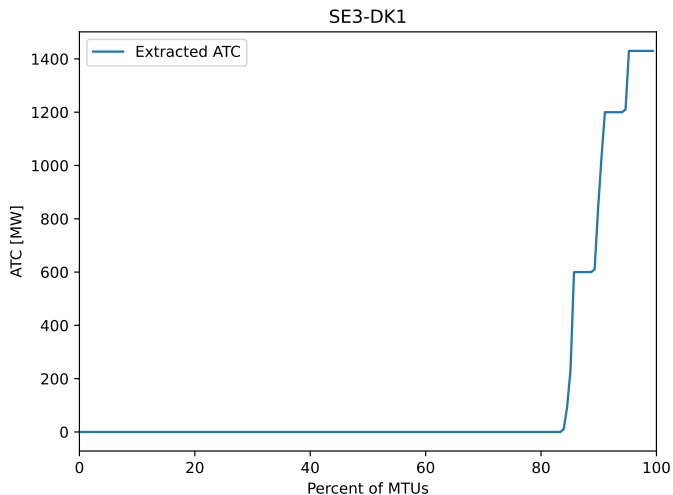
NO2-DK1 ATC duration curves



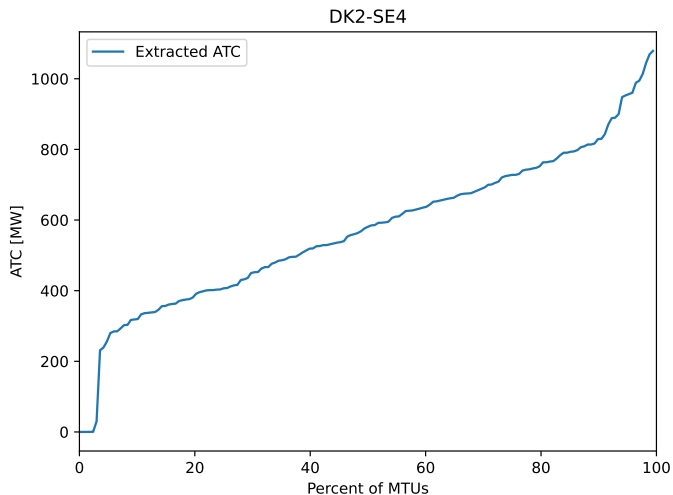
DK1-SE3 ATC duration curves



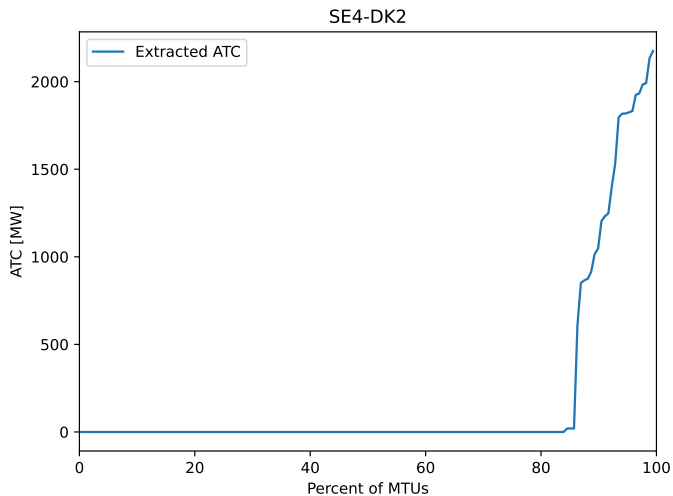
SE3-DK1 ATC duration curves



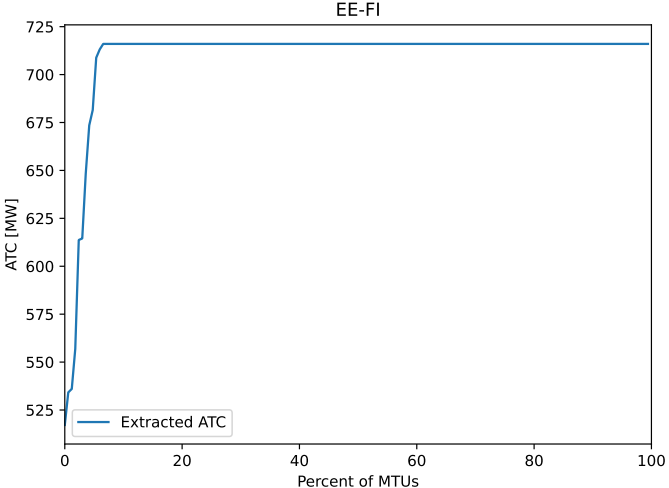
DK2-SE4 ATC duration curves



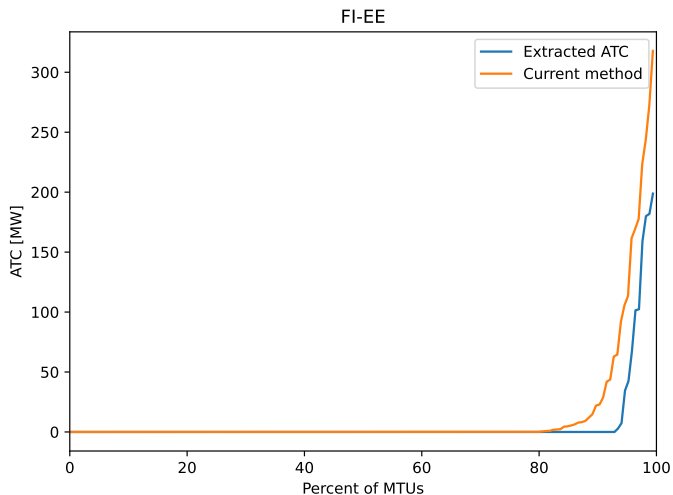
SE4-DK2 ATC duration curves



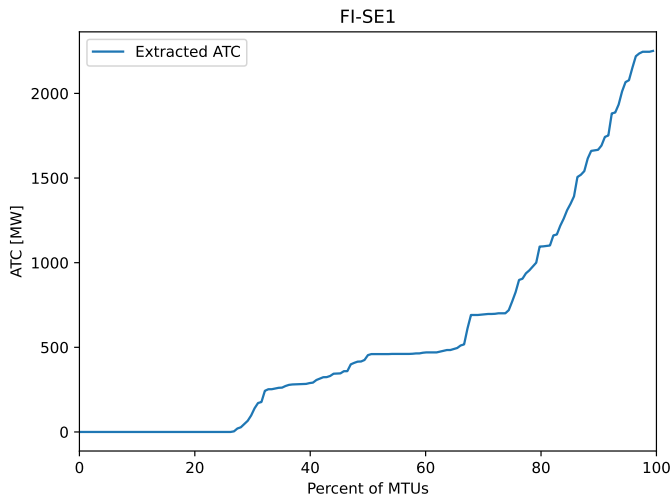
EE-FI ATC duration curves



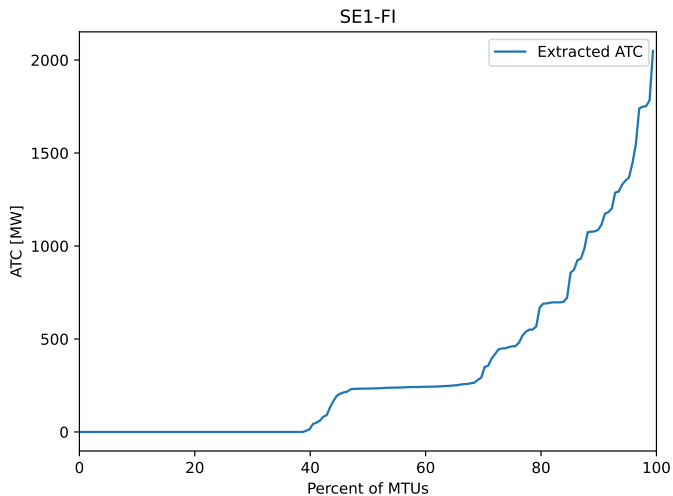
FI-EE ATC duration curves



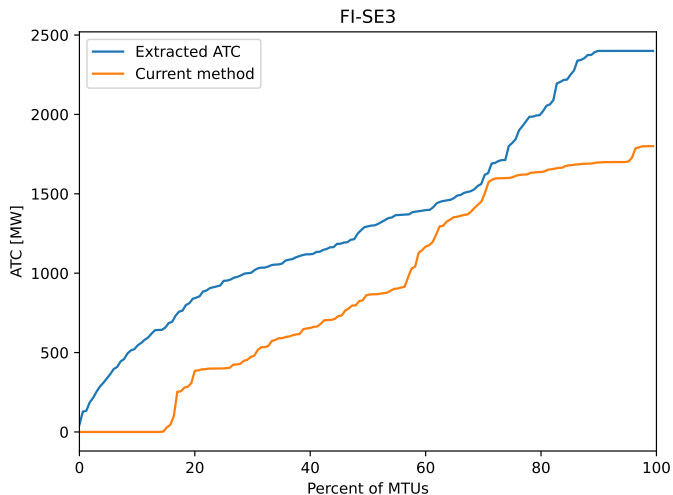
FI-SE1 ATC duration curves



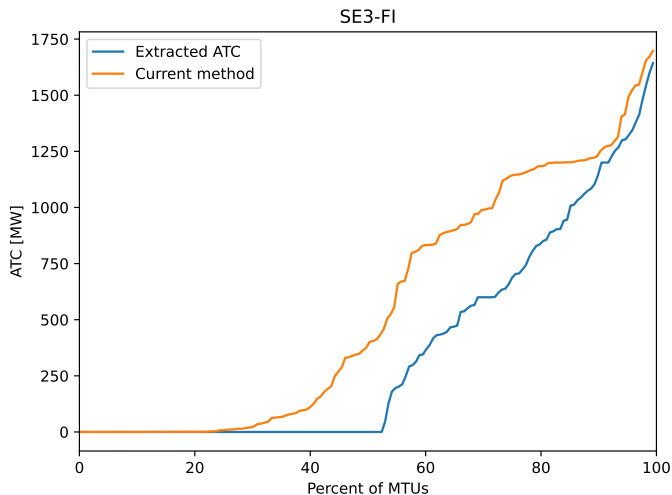
SE1-FI ATC duration curves



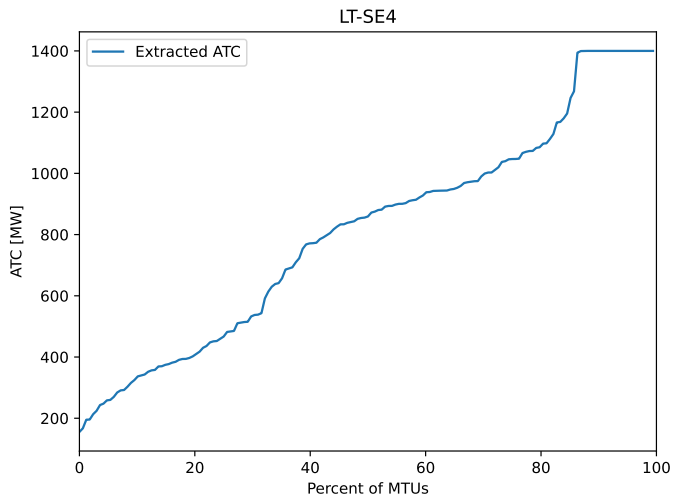
FI-SE3 ATC duration curves



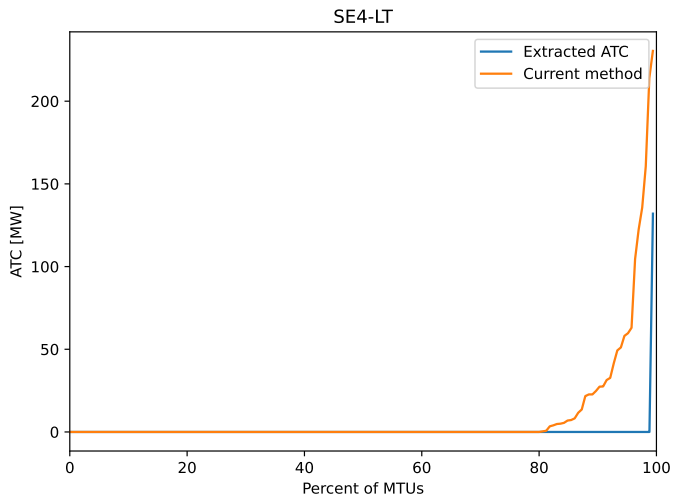
SE3-FI ATC duration curves



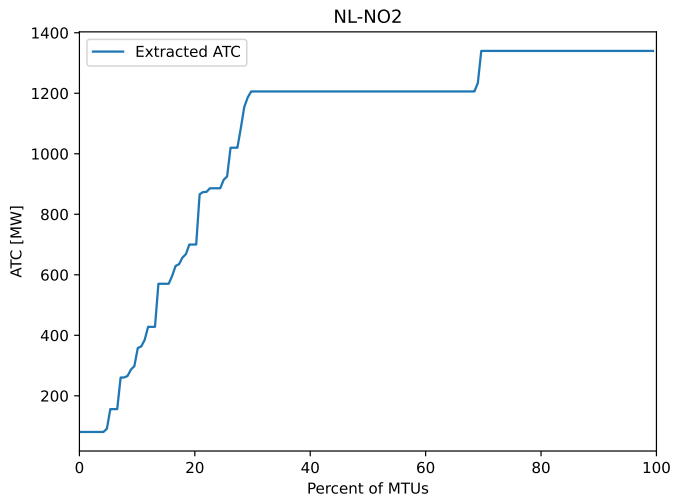
LT-SE4 ATC duration curves



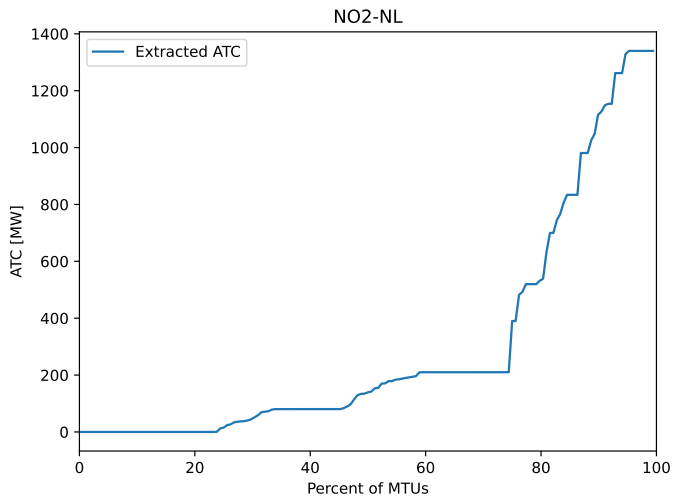
SE4-LT ATC duration curves



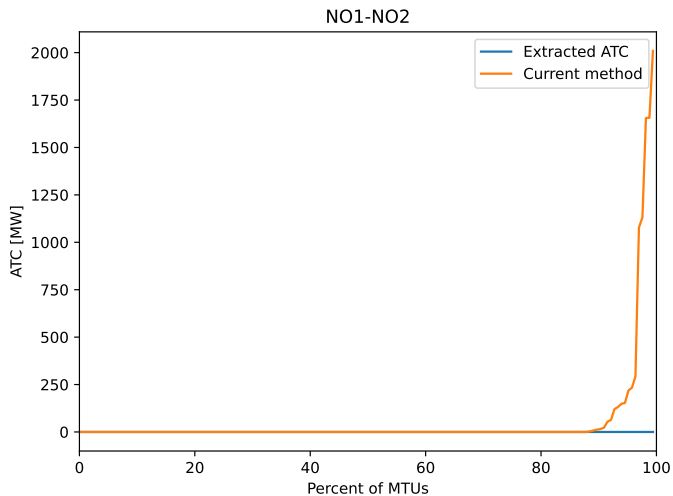
NL-NO2 ATC duration curves



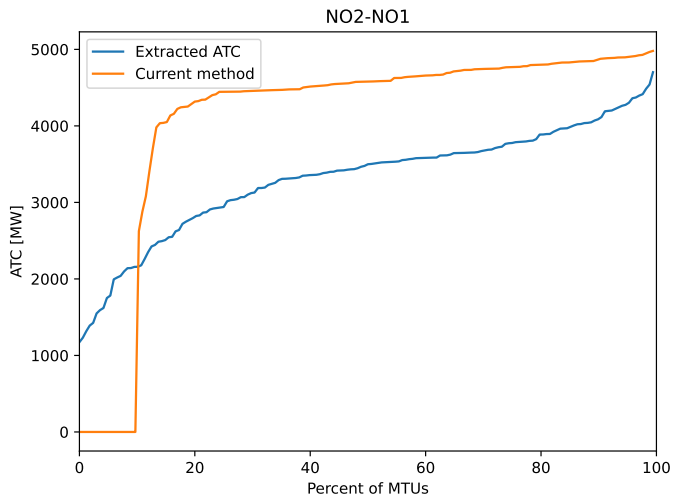
NO2-NL ATC duration curves



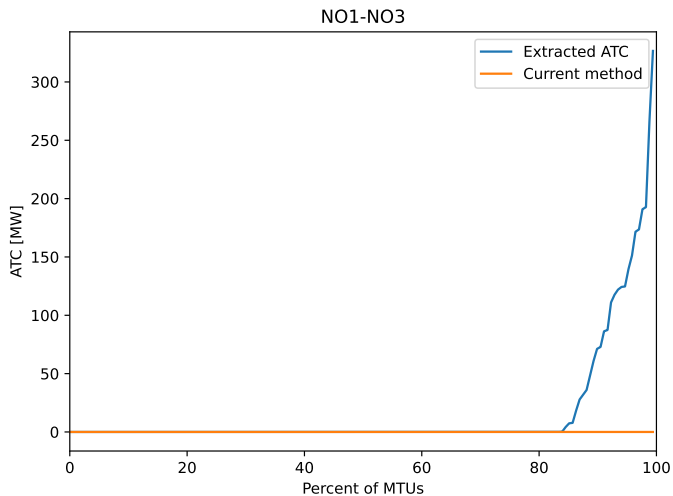
NO1-NO2 ATC duration curves



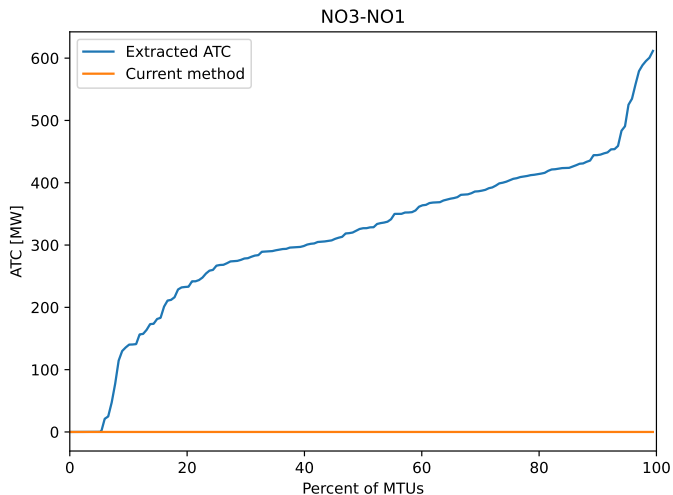
NO2-NO1 ATC duration curves



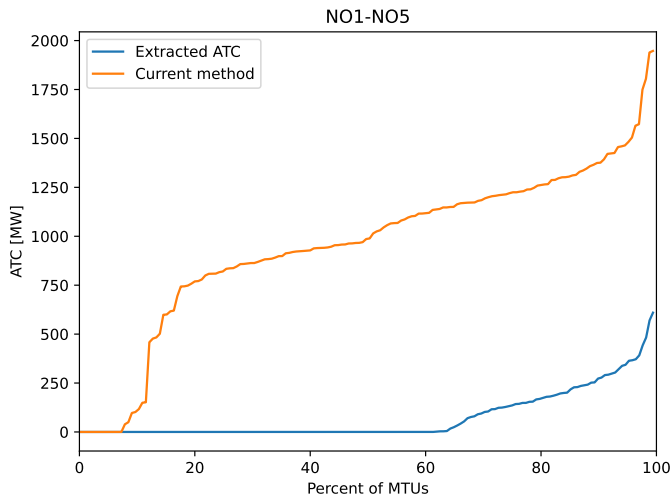
NO1-NO3 ATC duration curves



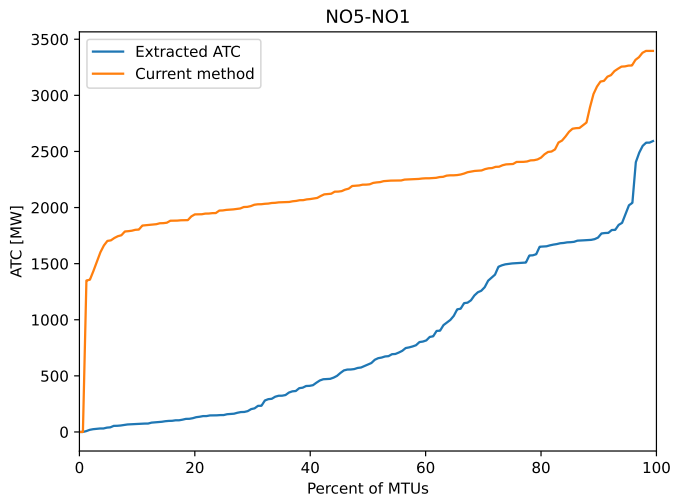
NO3-NO1 ATC duration curves



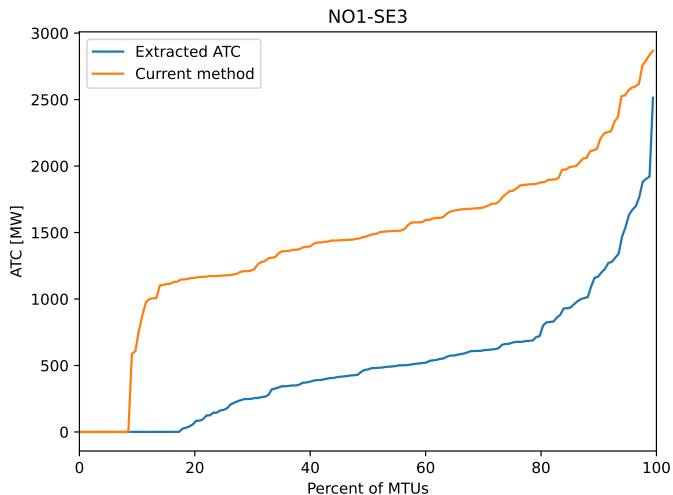
NO1-NO5 ATC duration curves



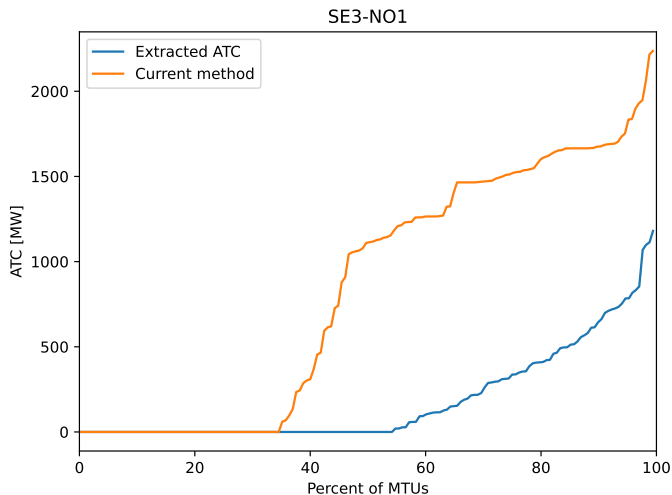
NO5-NO1 ATC duration curves



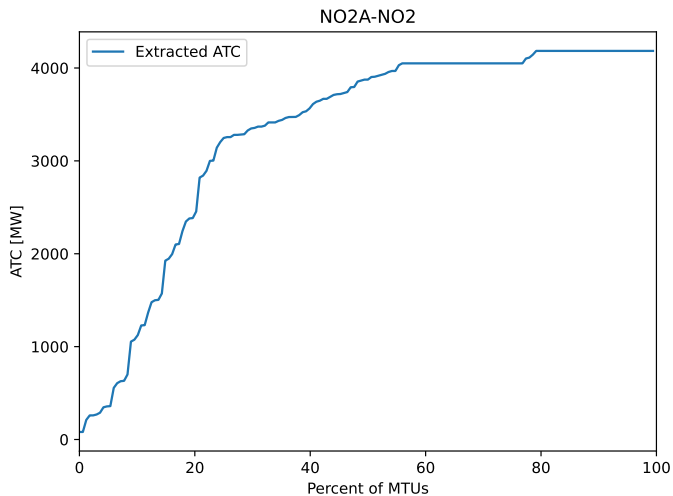
NO1-SE3 ATC duration curves



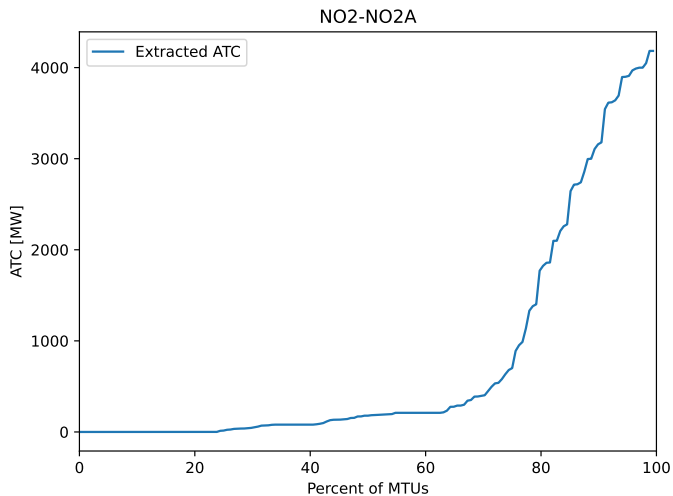
SE3-NO1 ATC duration curves



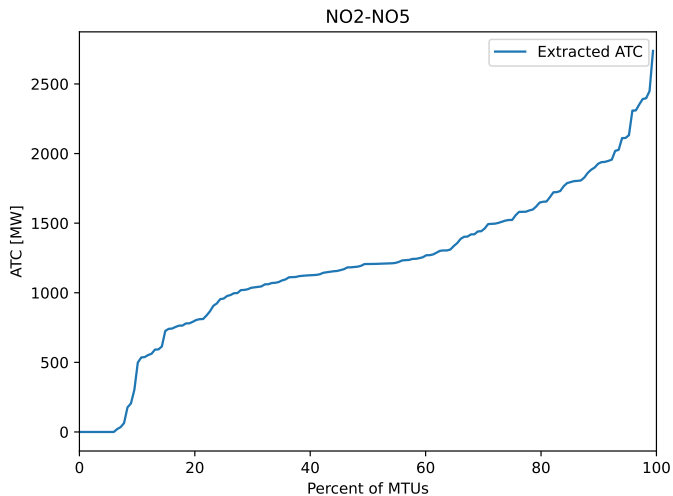
NO2A-NO2 ATC duration curves



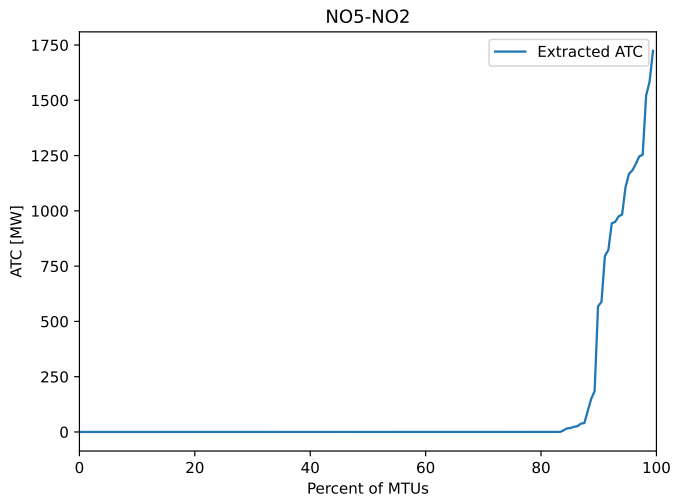
NO2-NO2A ATC duration curves



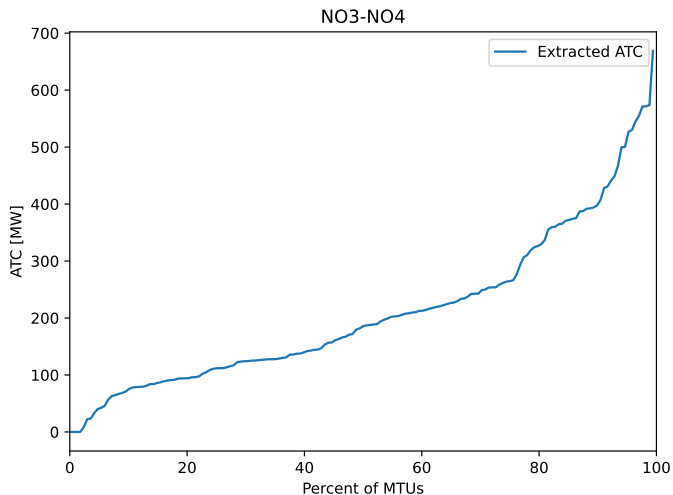
NO2-NO5 ATC duration curves



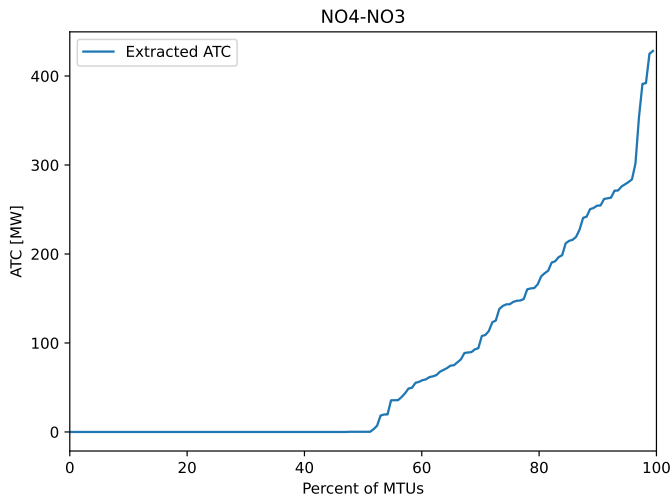
NO5-NO2 ATC duration curves



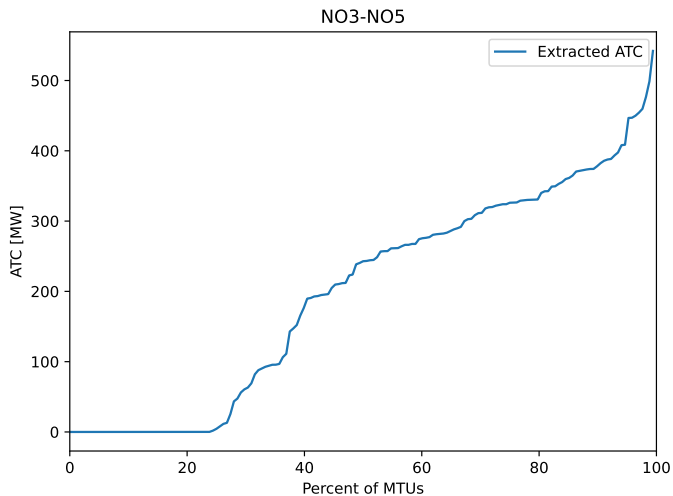
NO3-NO4 ATC duration curves



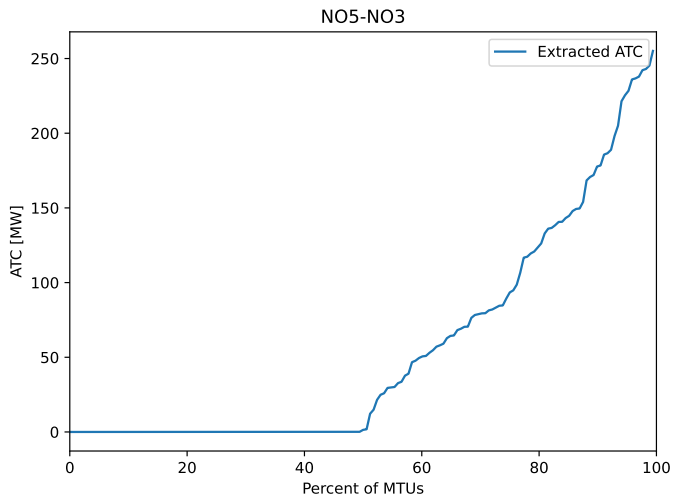
NO4-NO3 ATC duration curves



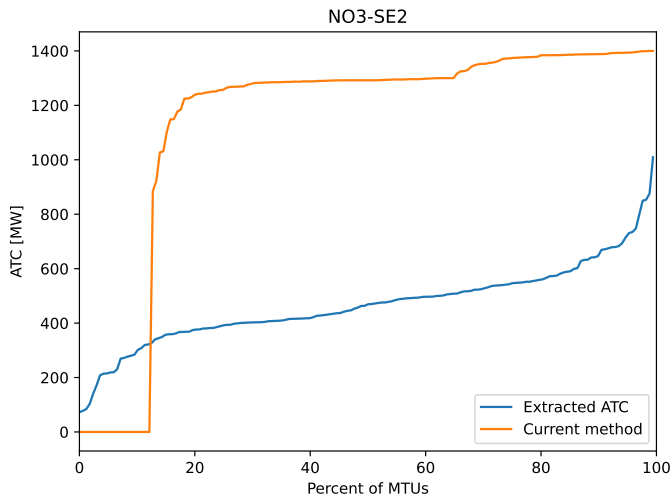
NO3-NO5 ATC duration curves



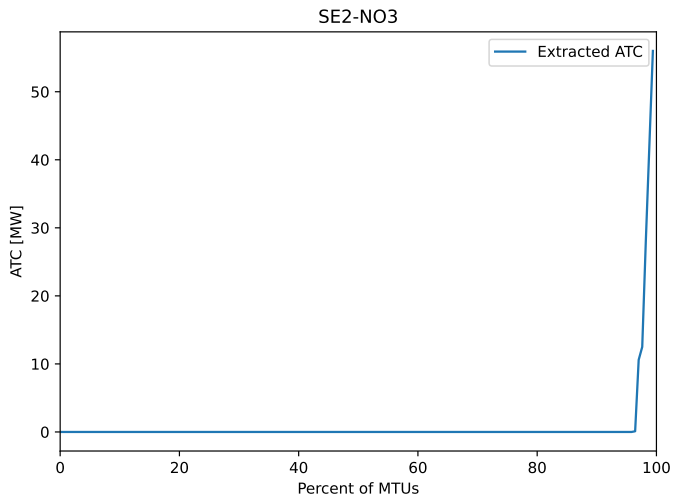
NO5-NO3 ATC duration curves



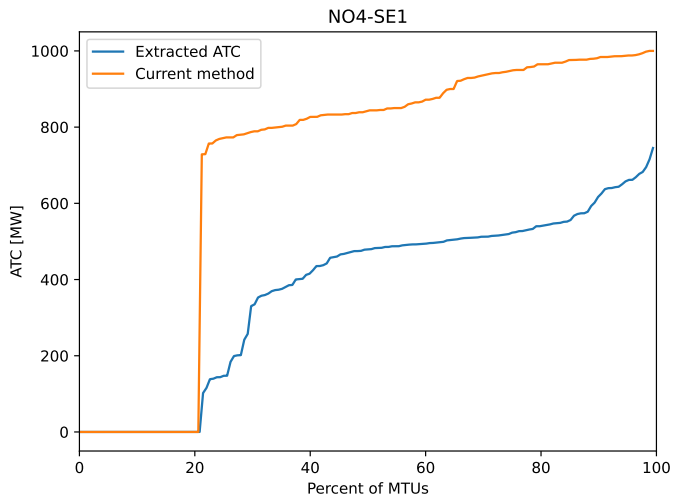
NO3-SE2 ATC duration curves



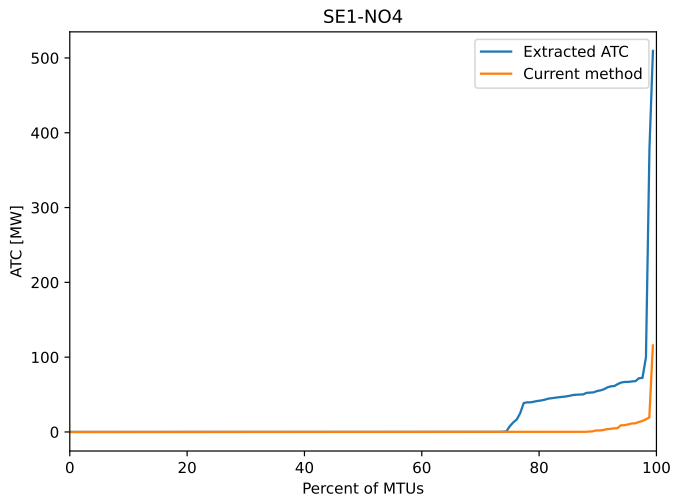
SE2-NO3 ATC duration curves



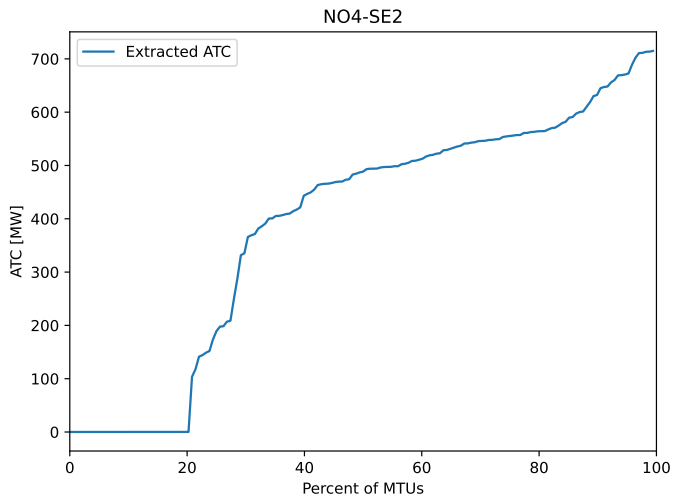
NO4-SE1 ATC duration curves



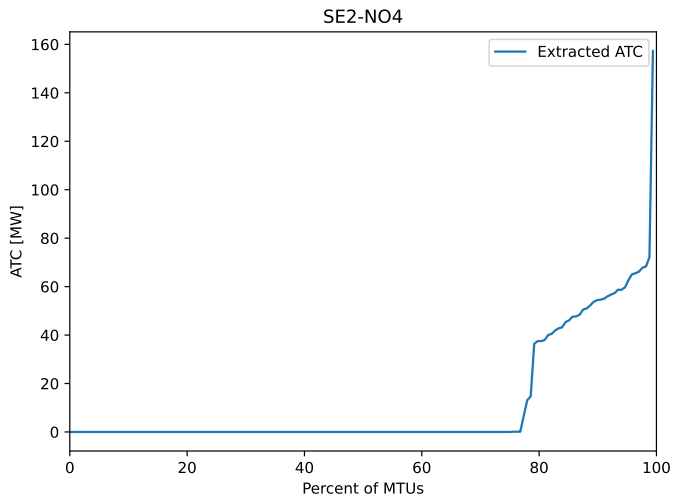
SE1-NO4 ATC duration curves



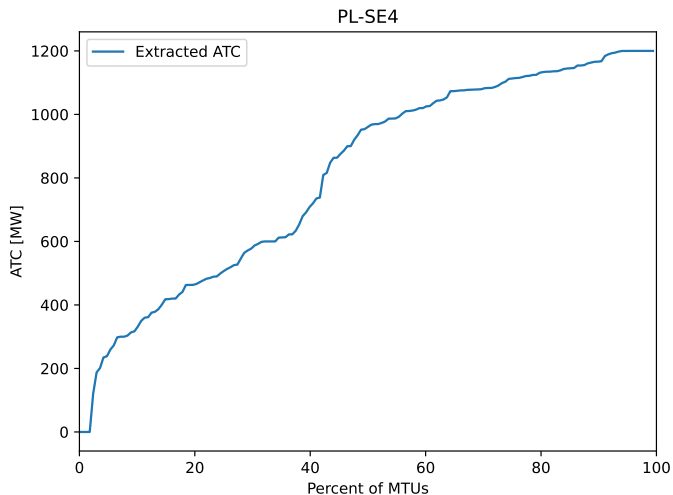
NO4-SE2 ATC duration curves



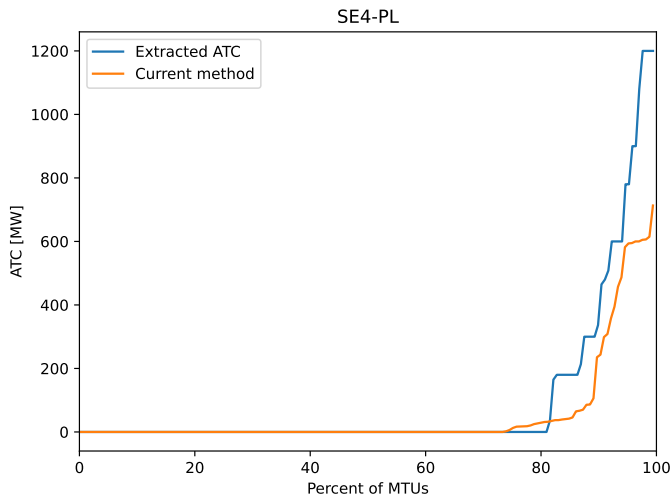
SE2-NO4 ATC duration curves



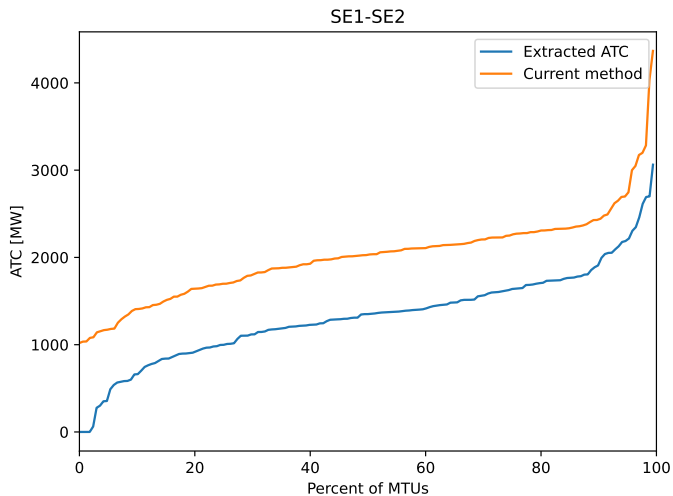
PL-SE4 ATC duration curves



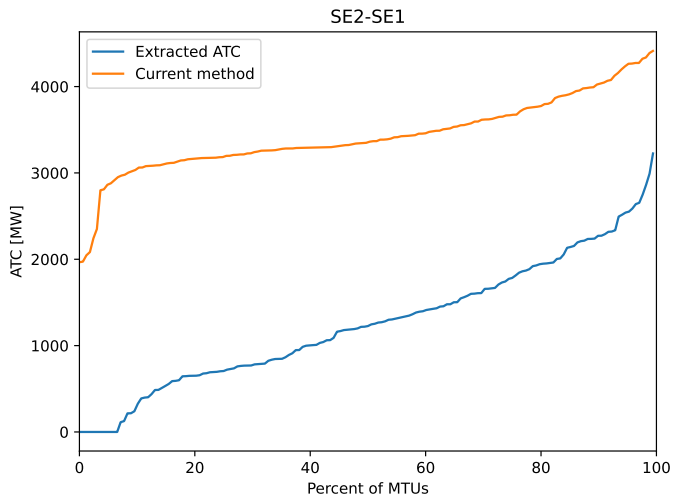
SE4-PL ATC duration curves



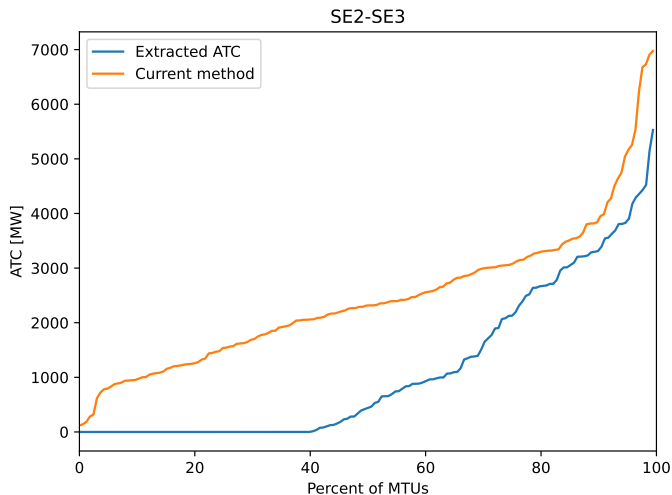
SE1-SE2 ATC duration curves



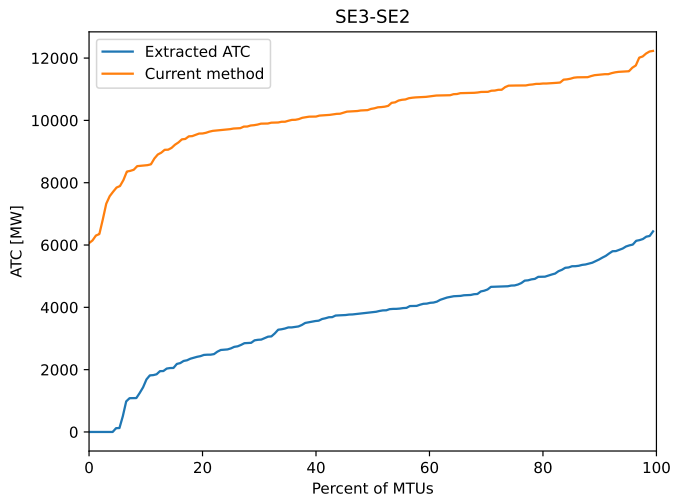
SE2-SE1 ATC duration curves



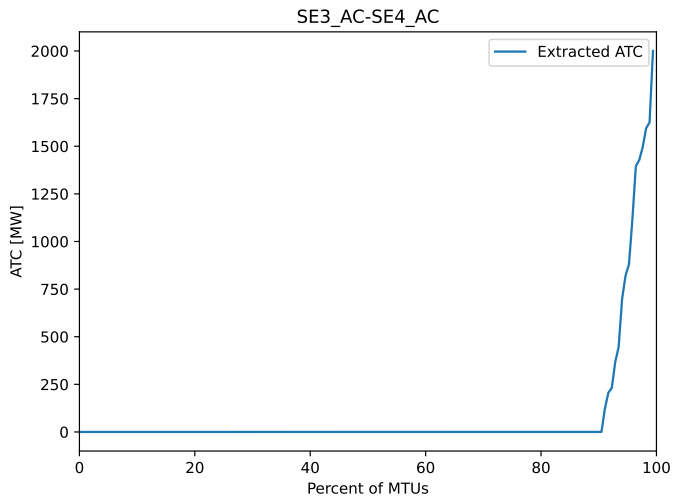
SE2-SE3 ATC duration curves



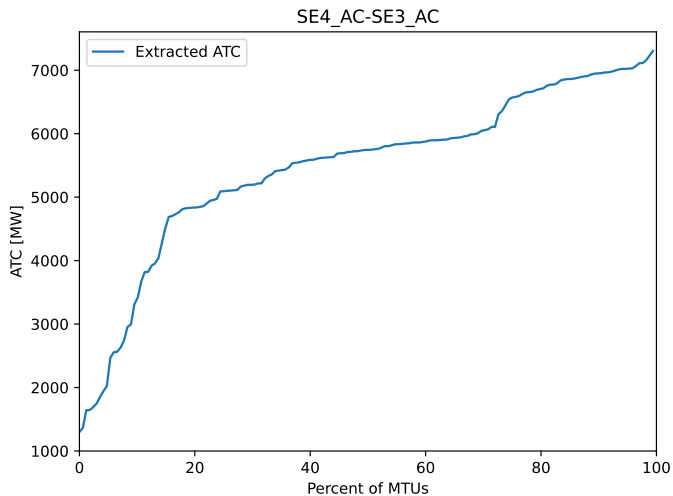
SE3-SE2 ATC duration curves



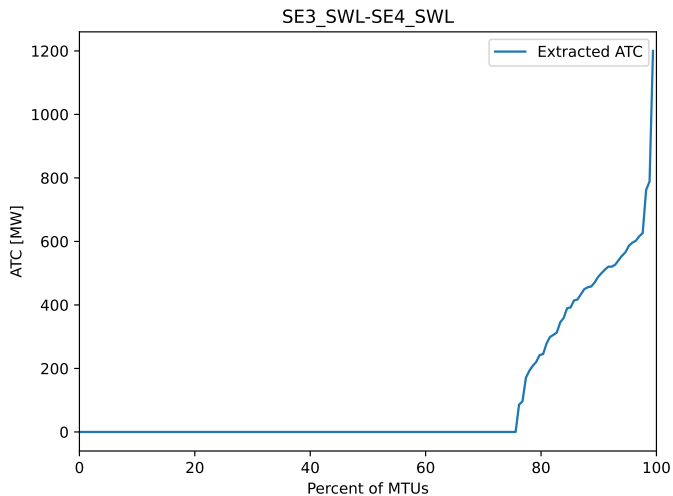
SE3_AC-SE4_AC ATC duration curves



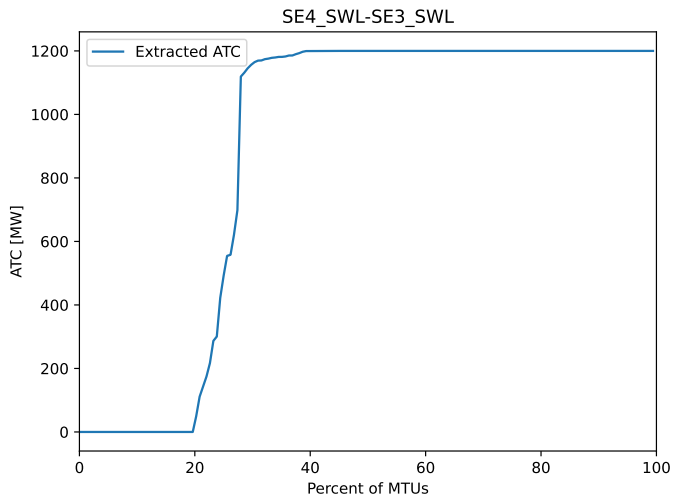
SE4_AC-SE3_AC ATC duration curves



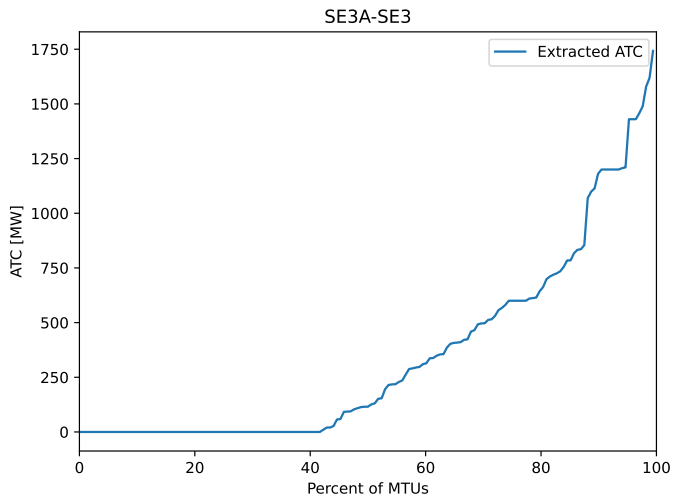
SE3_SWL-SE4_SWL ATC duration curves



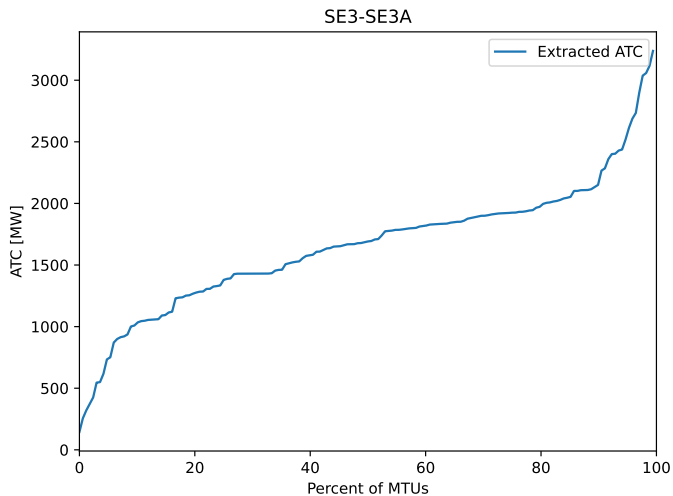
SE4_SWL-SE3_SWL ATC duration curves



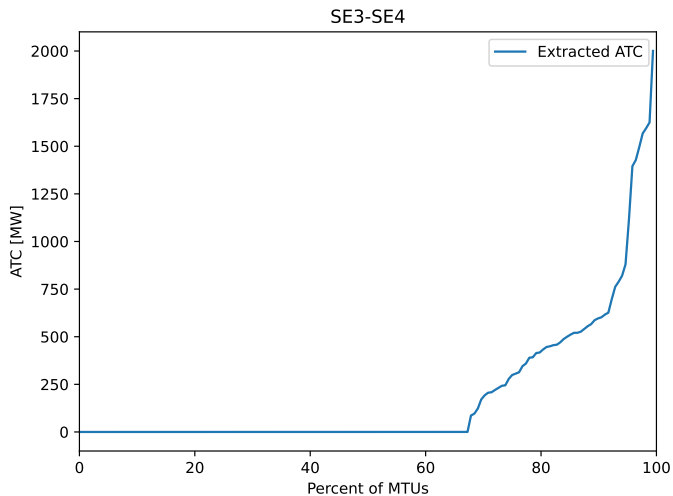
SE3A-SE3 ATC duration curves



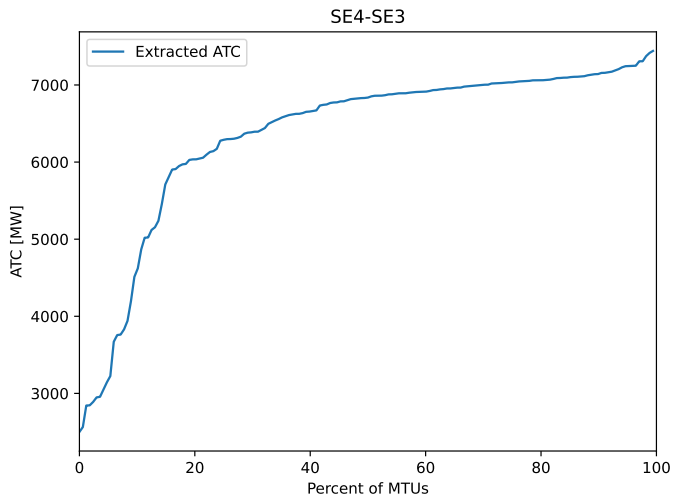
SE3-SE3A ATC duration curves



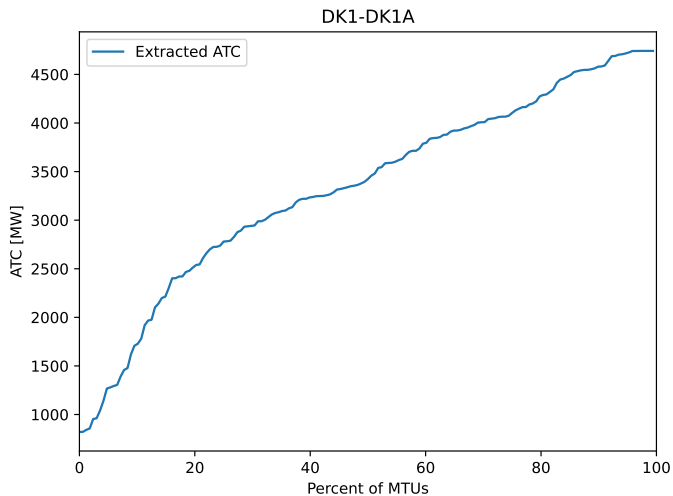
SE3-SE4 ATC duration curves



SE4-SE3 ATC duration curves



DK1-DK1A ATC duration curves



DK1A-DK1 ATC duration curves

