ATC Extraction Results

Nordic RCC

May 16, 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	20	0
NO1	0	0	0
NO2	0	0	0
NO3	7	0	0
NO4	39	27	0
NO5	2	17	0
SE1	24	0	0
SE2	12	8	0
SE3	0	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
DK1-SE3	34
SE3-DK1	34
FI-SE3	3
SE3-FI	3
NO3-NO4	7
NO4-NO3	7
NO3-SE2	6
SE2-NO3	6
NO4-SE2	6
SE2-NO4	6
SE2-SE3	2
SE3-SE2	2

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

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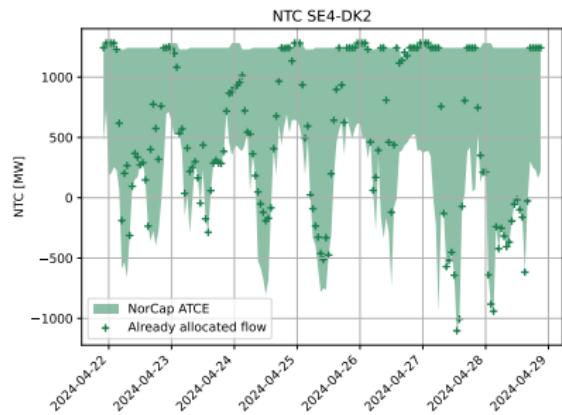
The colored area represents the possible exchange on this border and direction. The cross marks the simulated day ahead market coupling flows. Any colored area above the cross, means that intraday market will be able to increase exchange over the day ahead market coupling flows. Any colored area below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

DE_LU-DK1
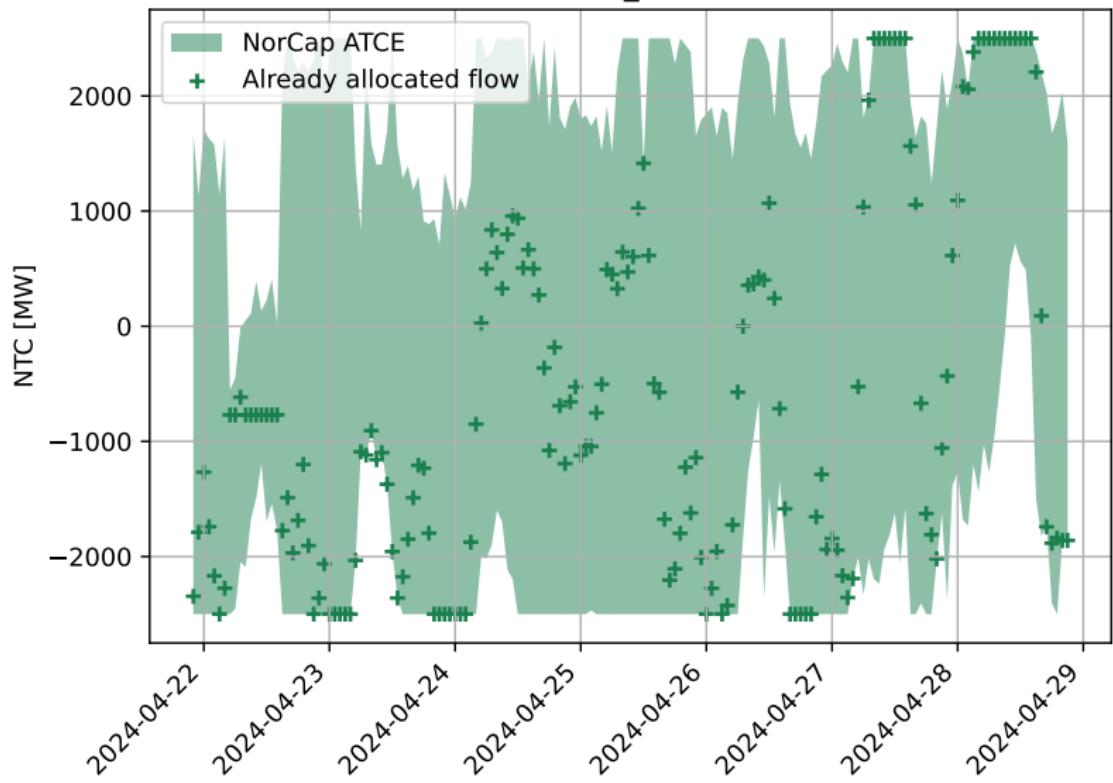
DK1-DE_LU

NTC DK1-DE_LU

DE_LU-DK2

NTC DE_LU-DK2

Legend:
- NorCap ATCE
- Already allocated flow
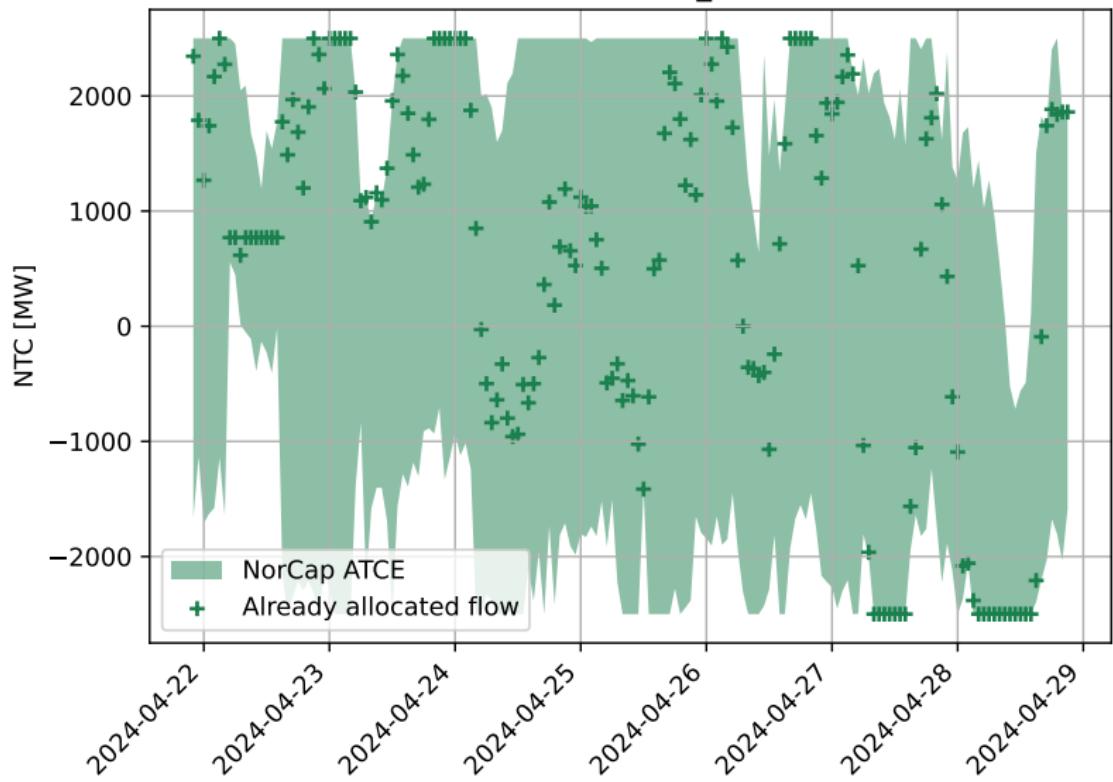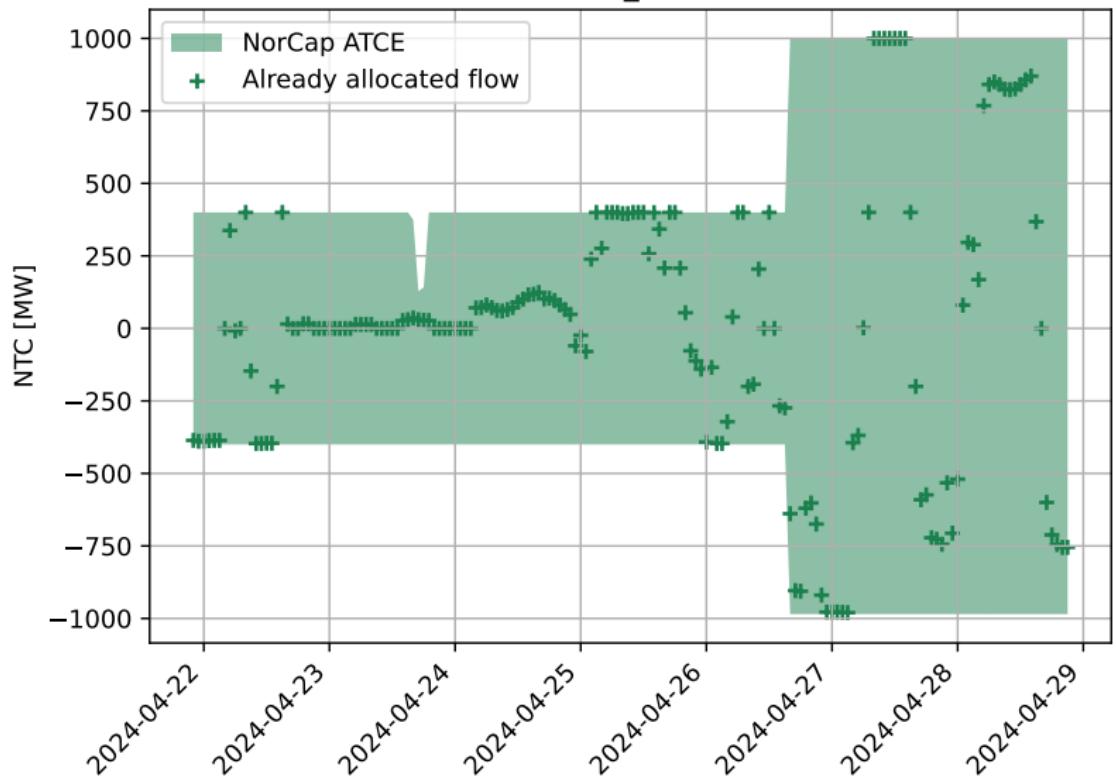
DK2-DE_LU
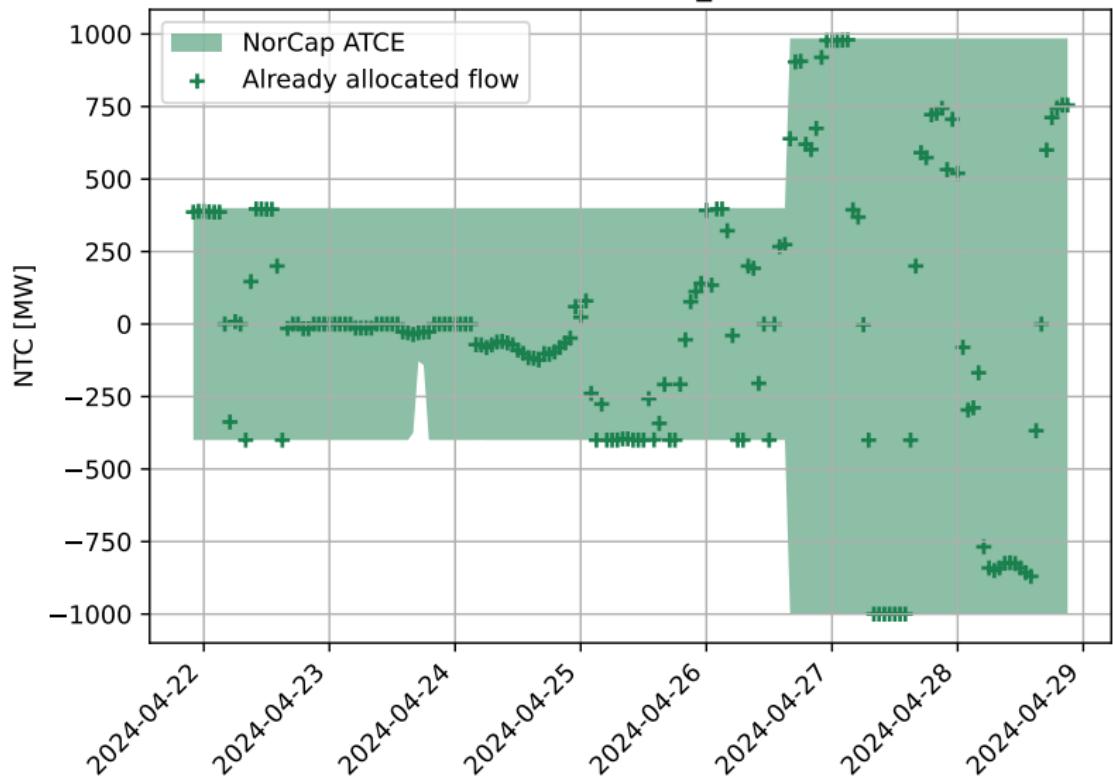
NTC DK2-DE_LU

DE_LU-NO2

NTC DE_LU-NO2
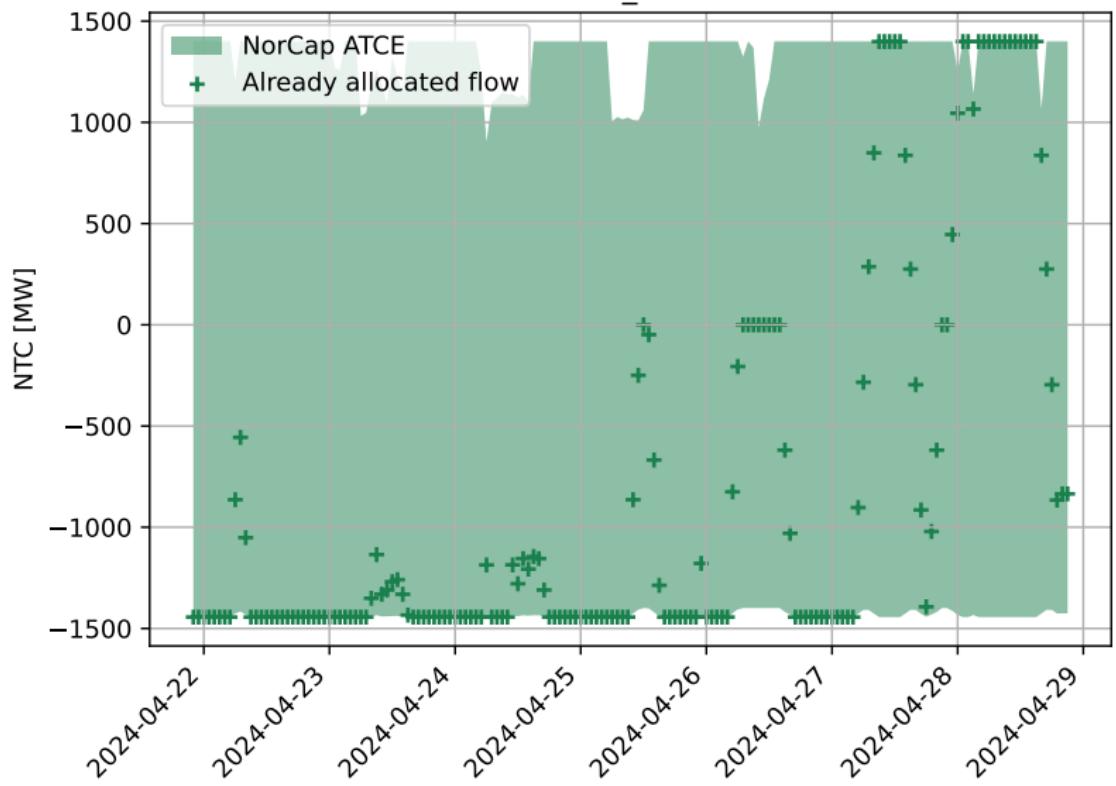
NO2-DE_LU

NTC NO2-DE_LU
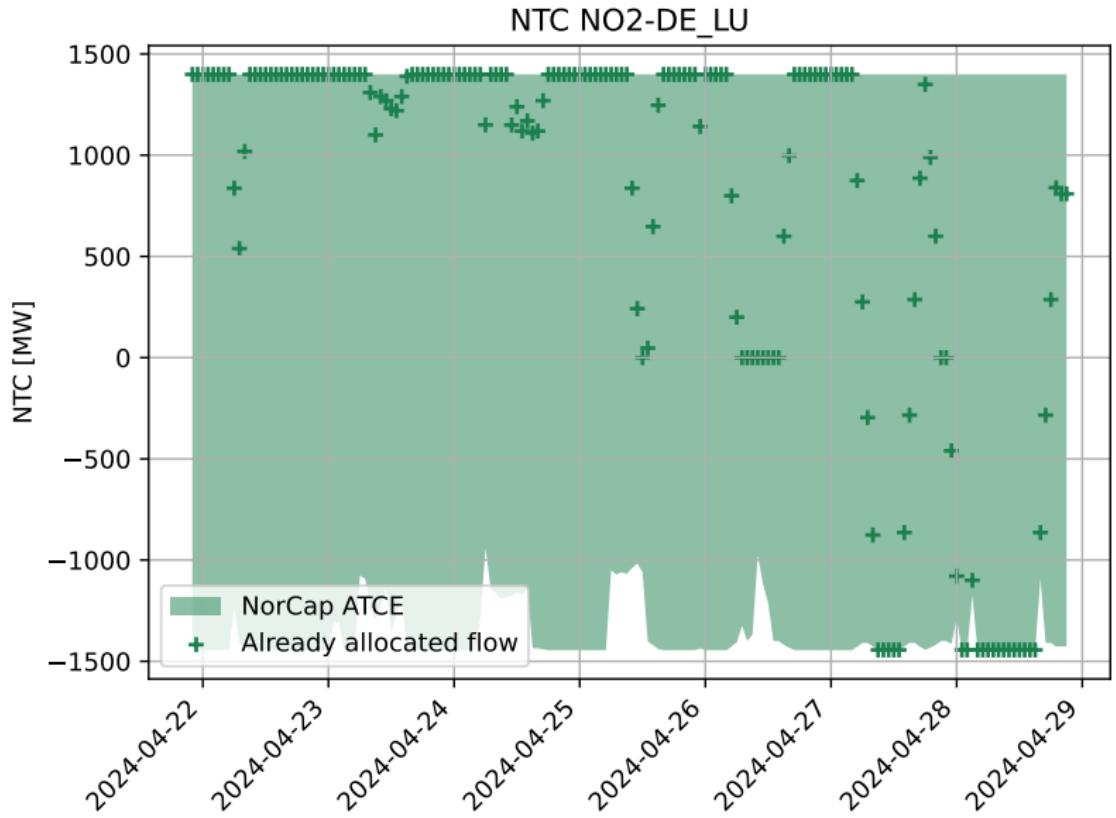
DK1-DK2

NTC DK1-DK2
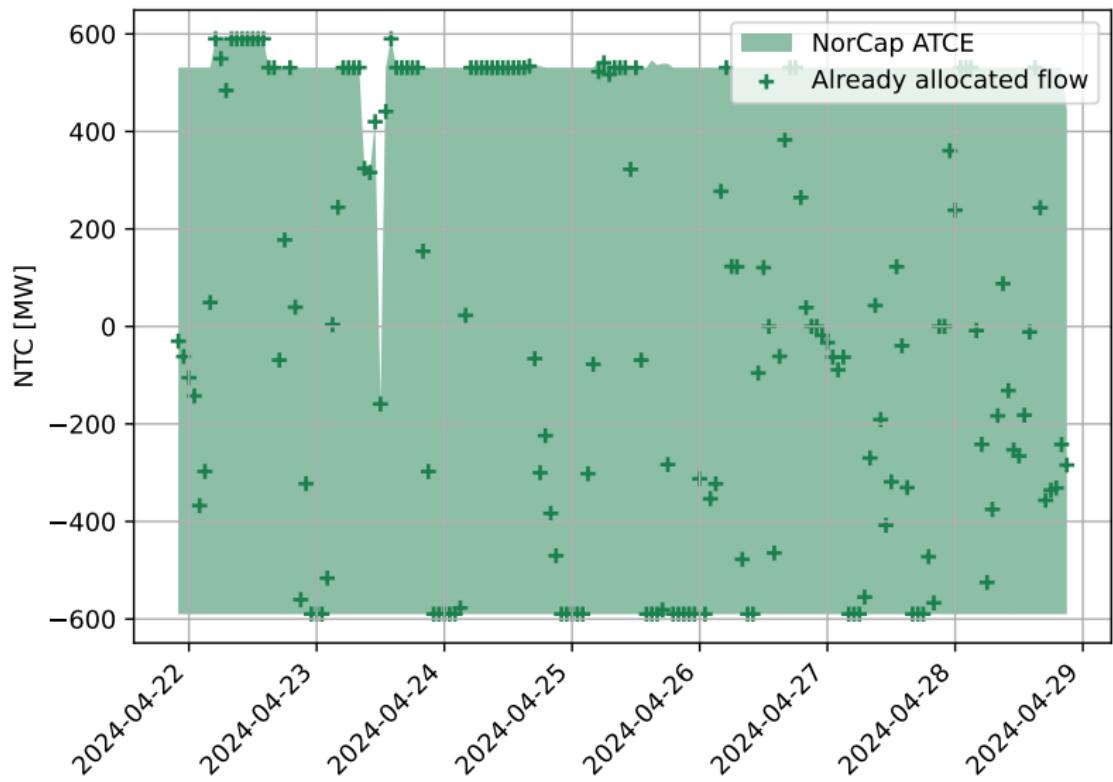
DK2-DK1

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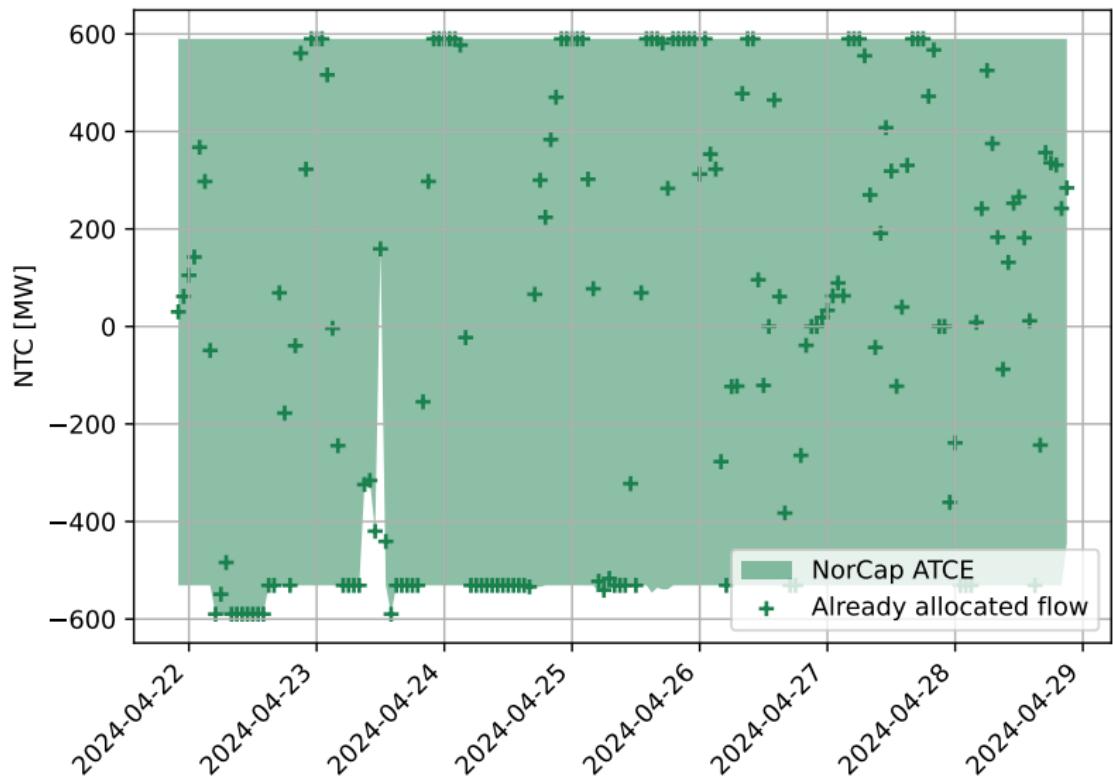
DK1-NL

NTC DK1-NL
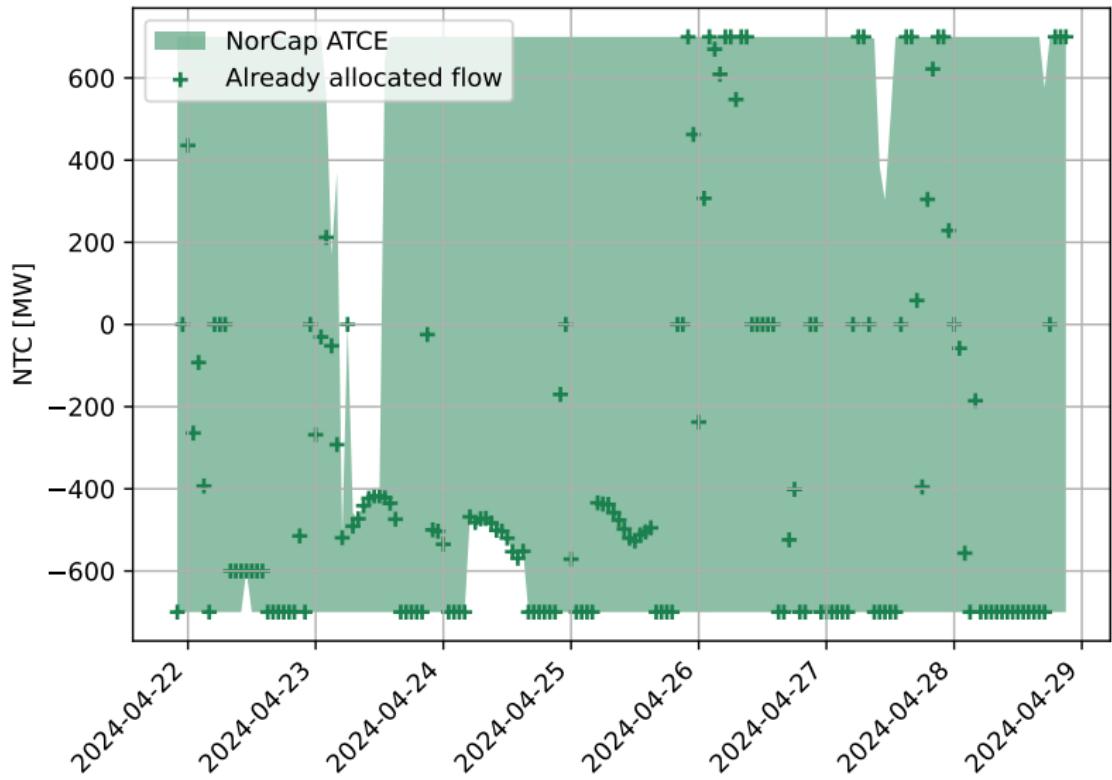
NL-DK1

NTC NL-DK1
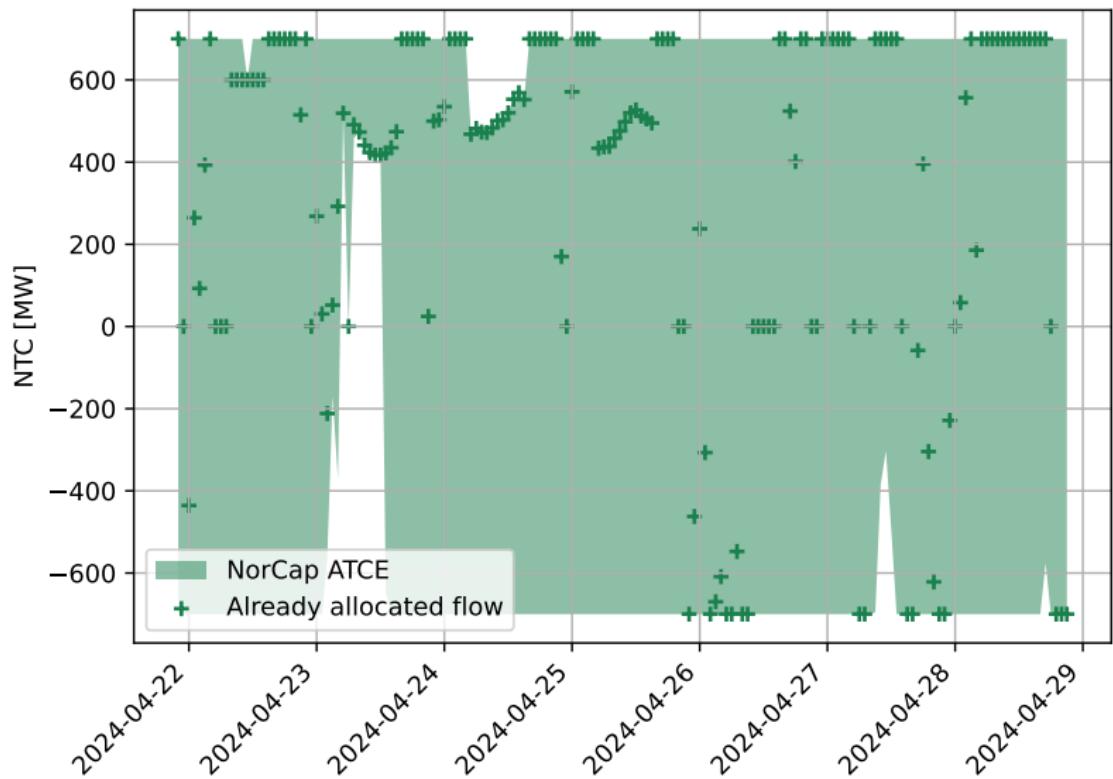
DK1-NO2

NO2-DK1
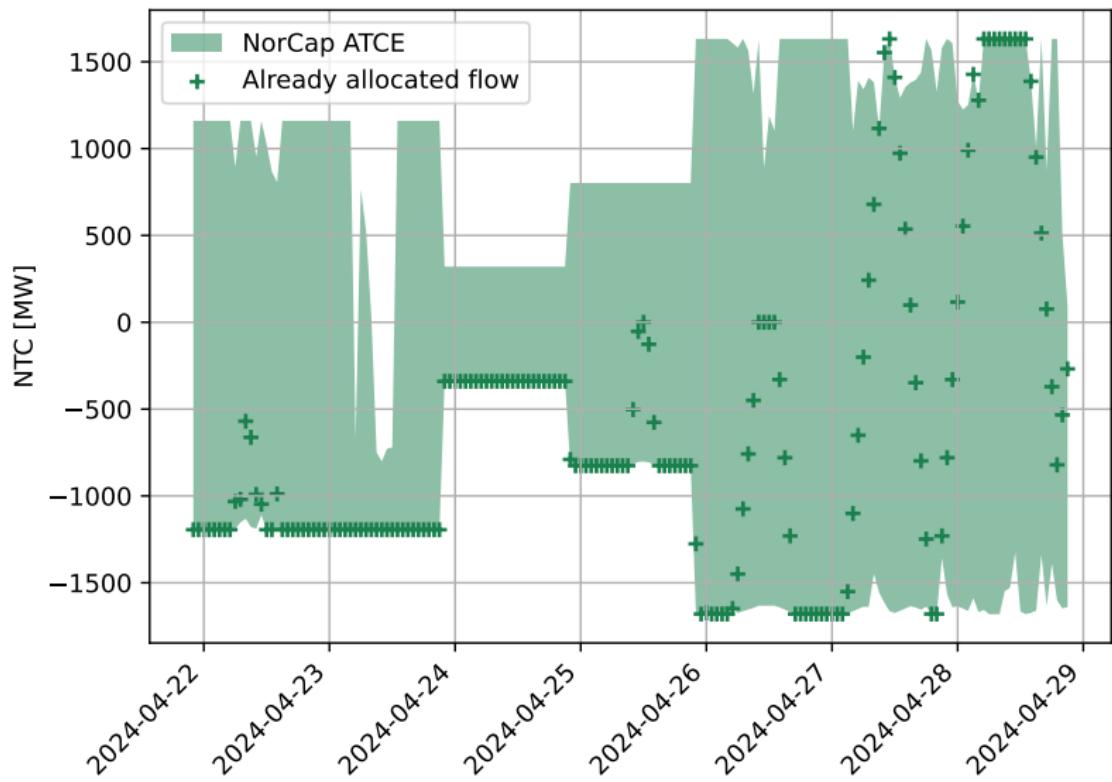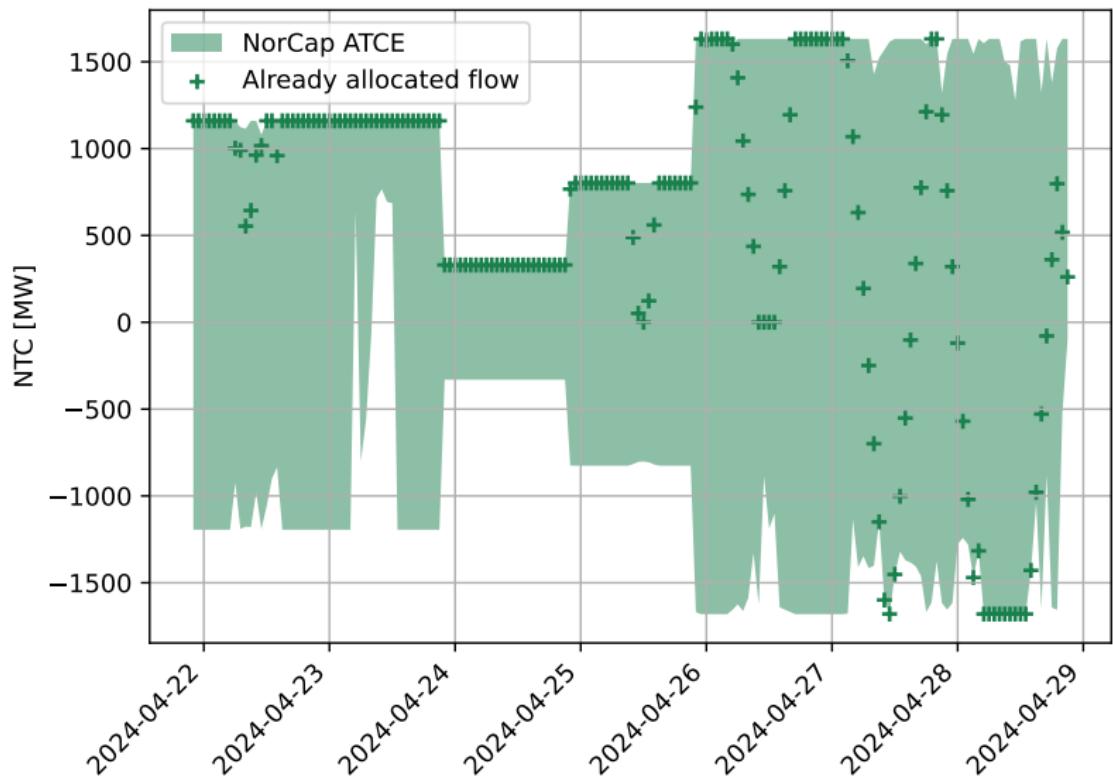
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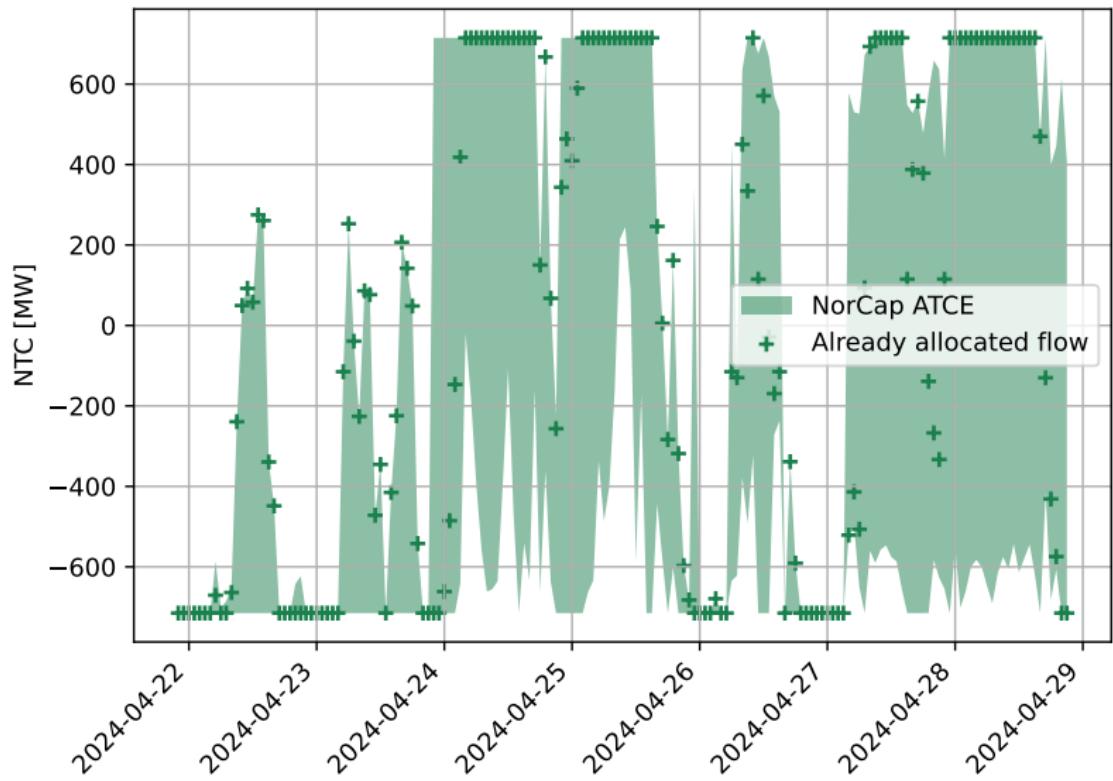
SE3-DK1

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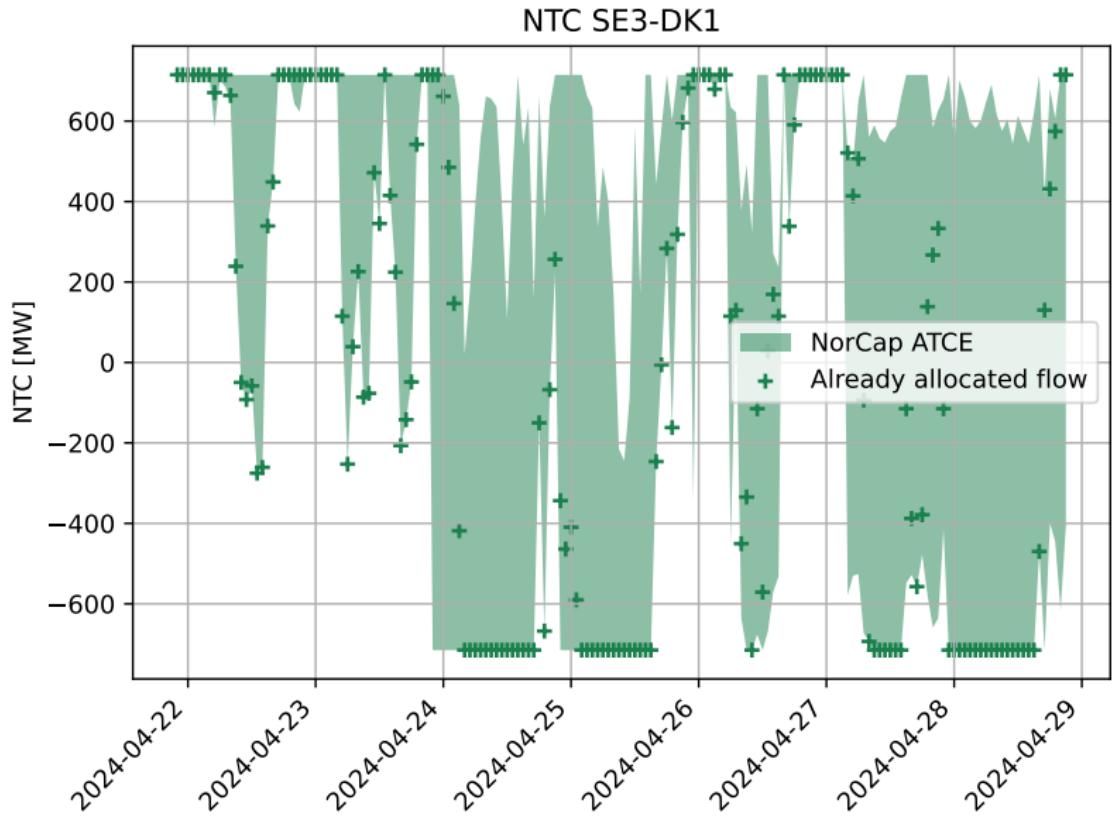
DK2-SE4

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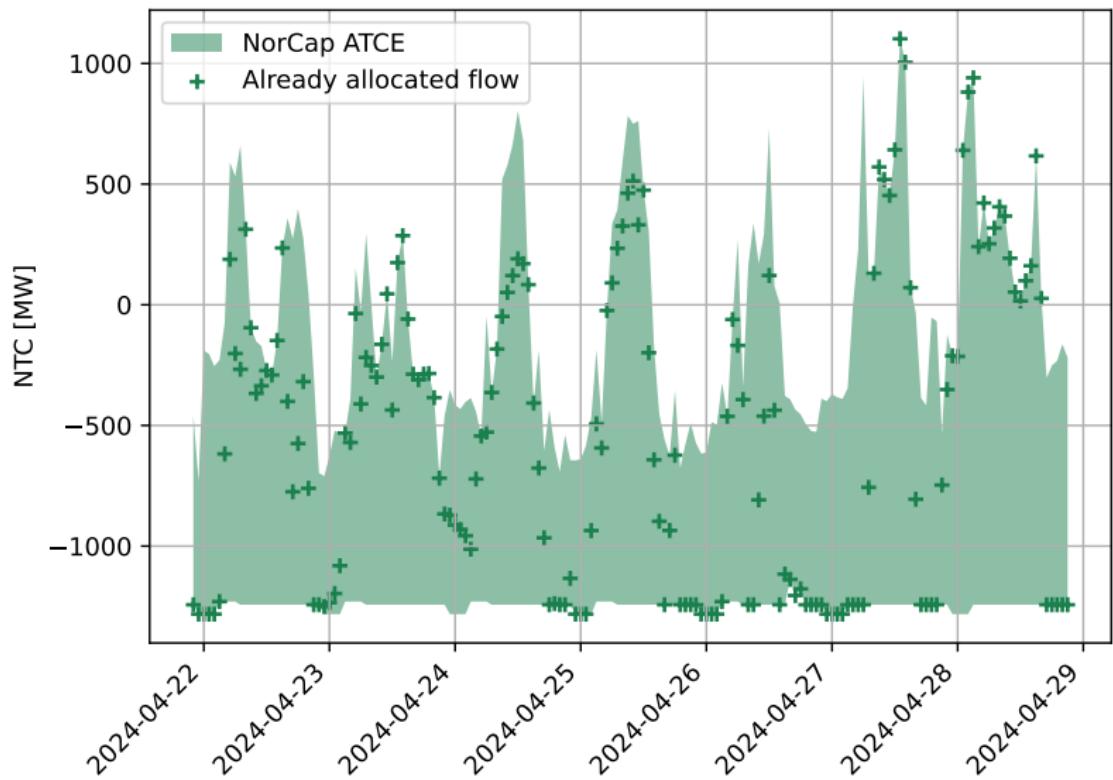
SE4-DK2

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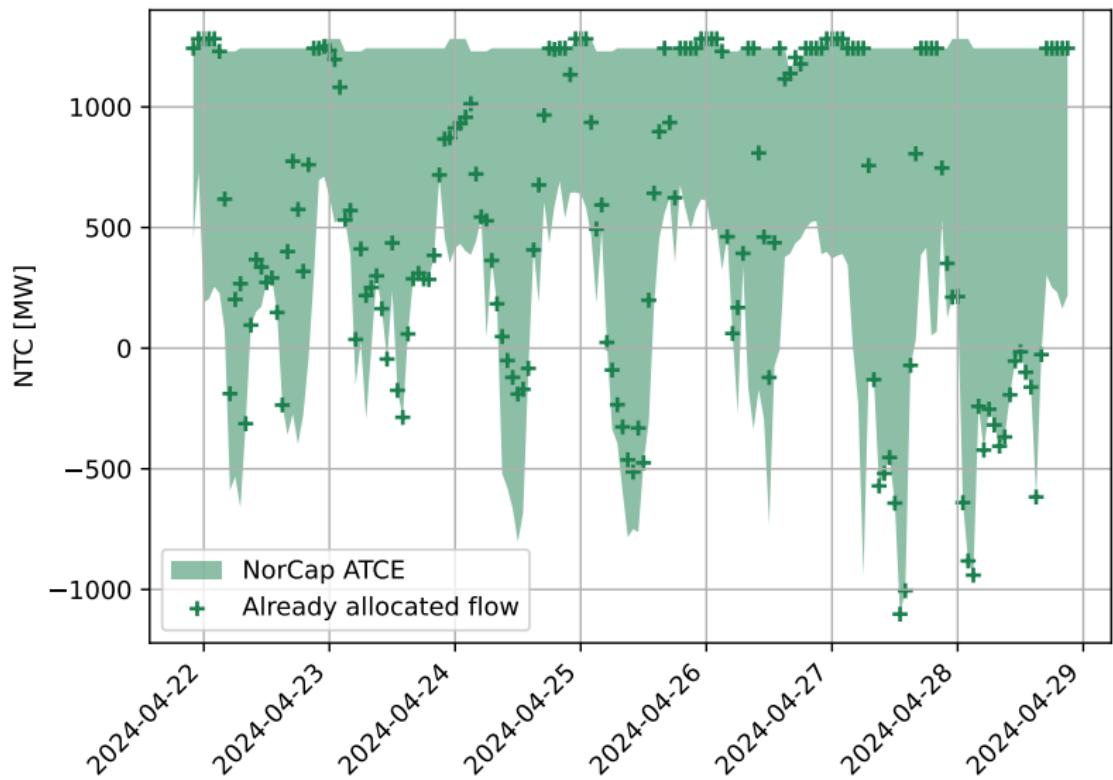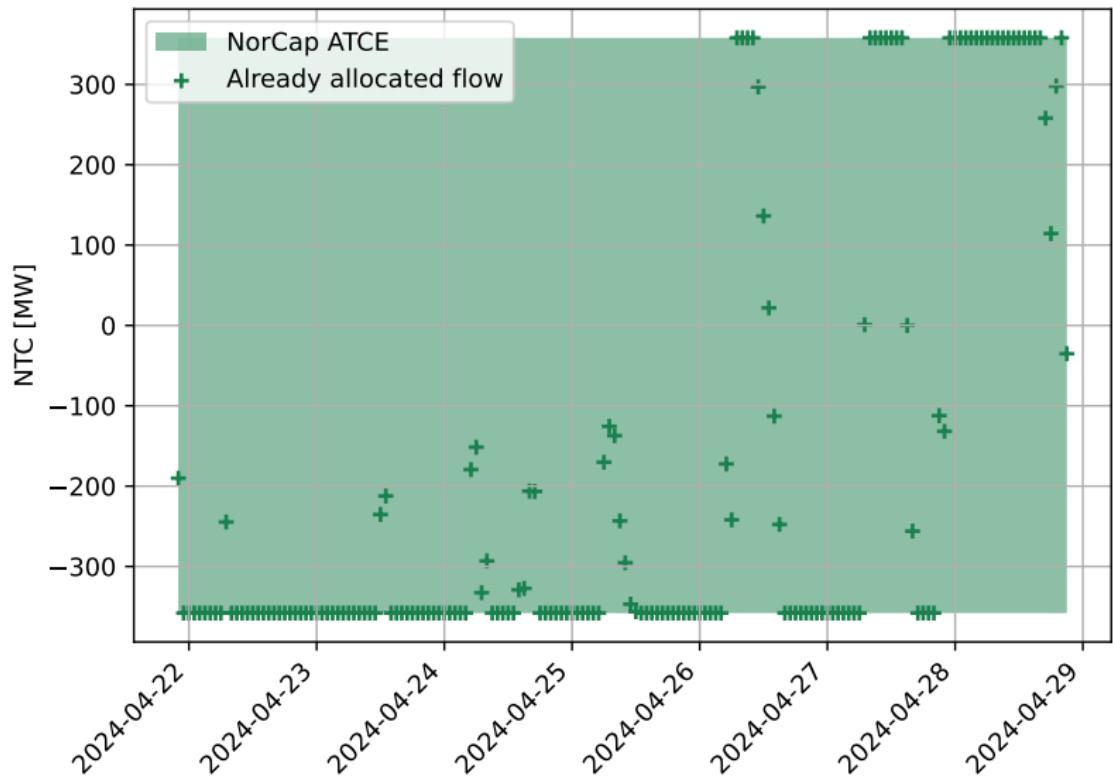
EE-FI

FI-EE

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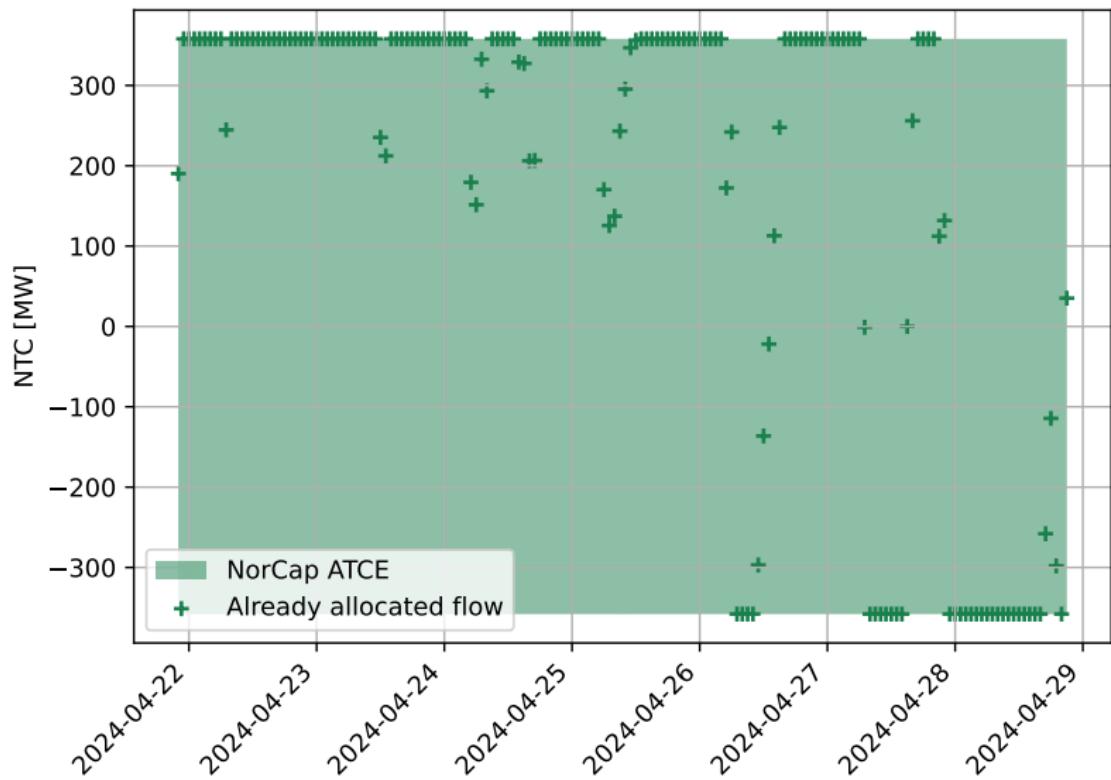
FI-SE1
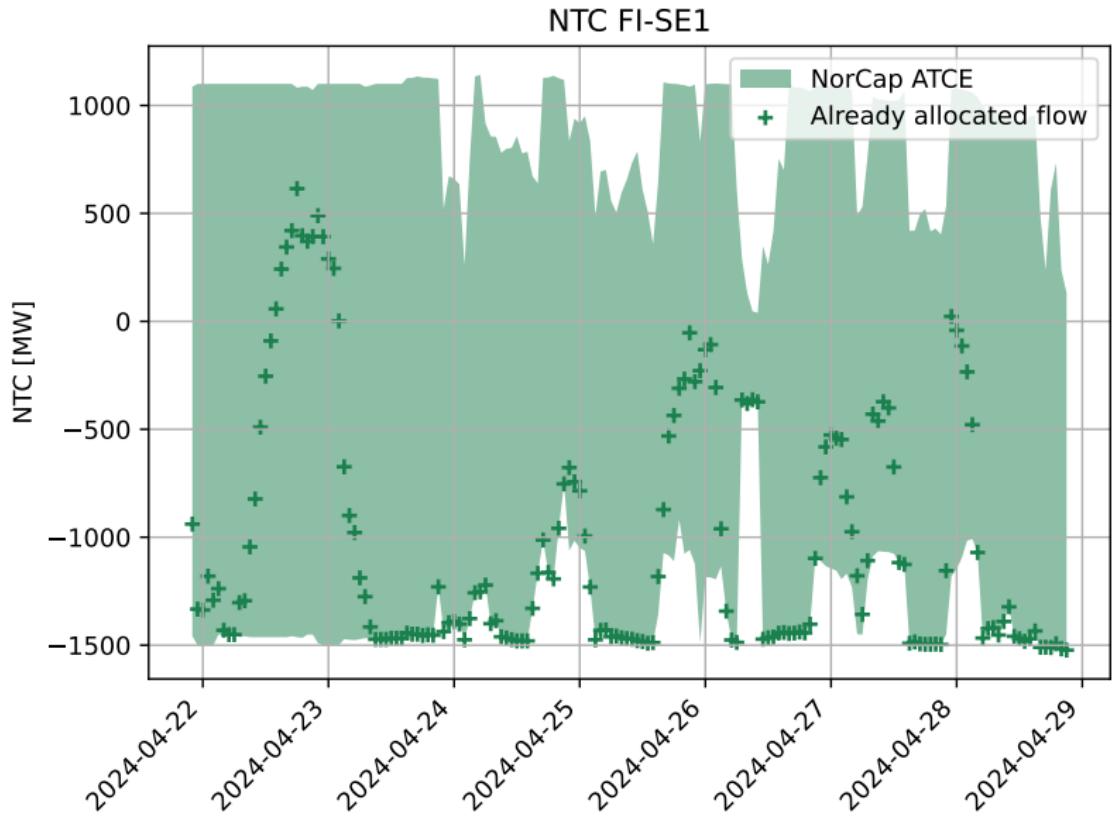
NTC FI-SE1

SE1-FI

NTC SE1-FI
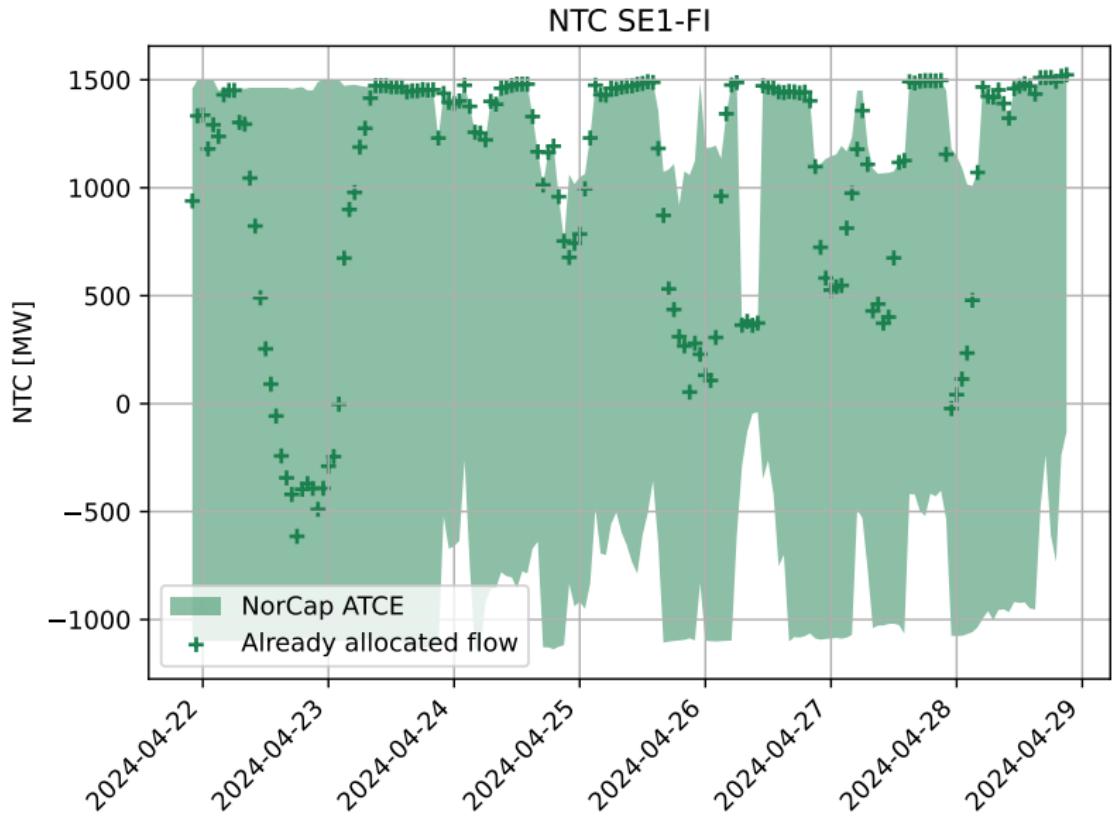
FI-SE3
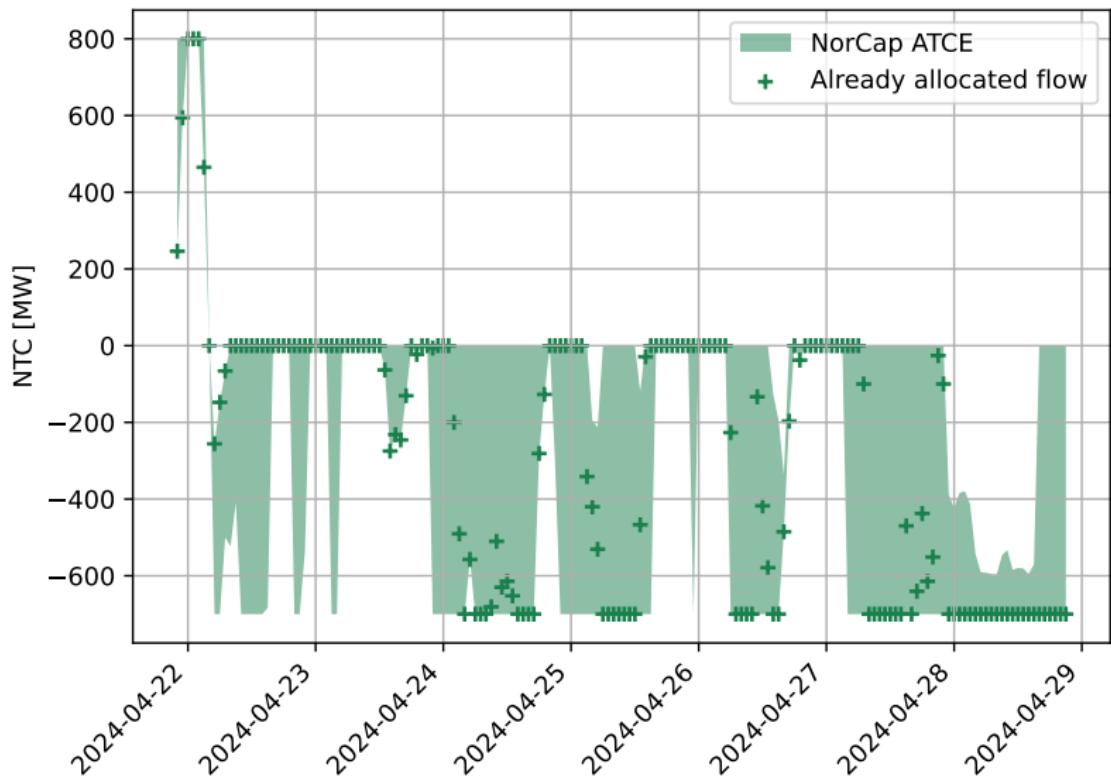
SE3-FI

NTC SE3-FI

LT-SE4

NTC LT-SE4
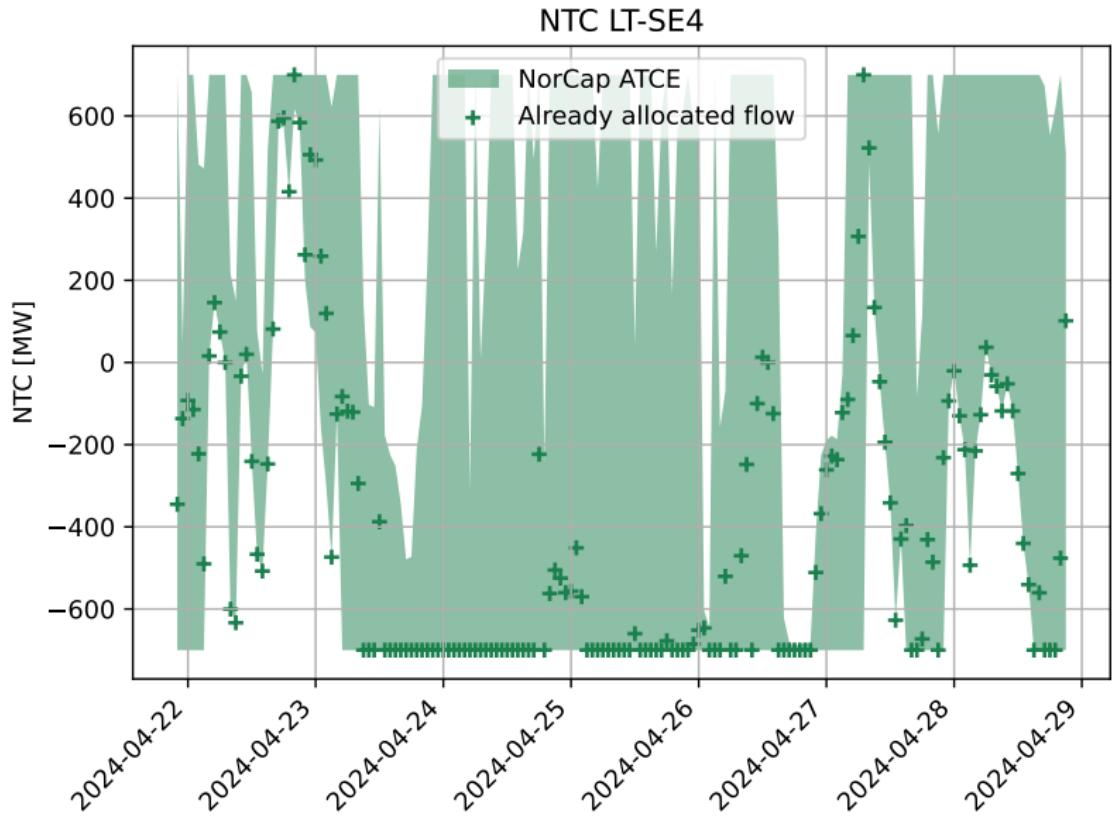
SE4-LT
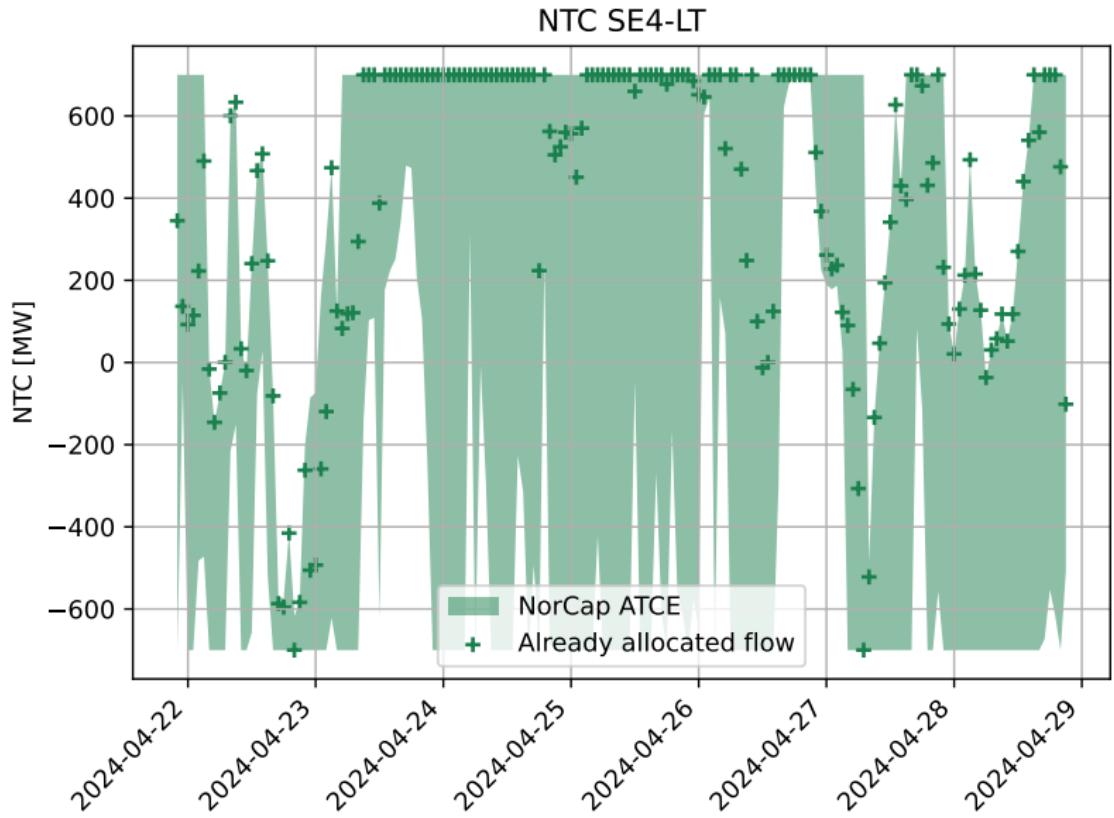
NL-NO2

NTC NL-NO2
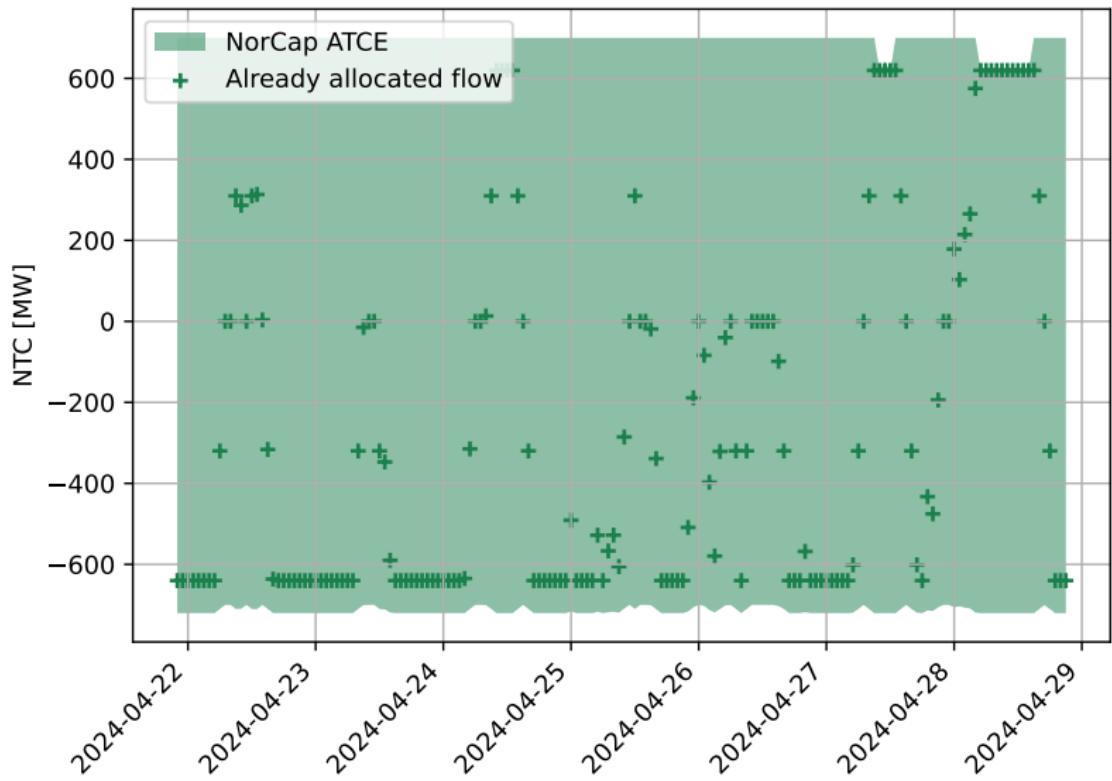
NO2-NL

NTC NO2-NL
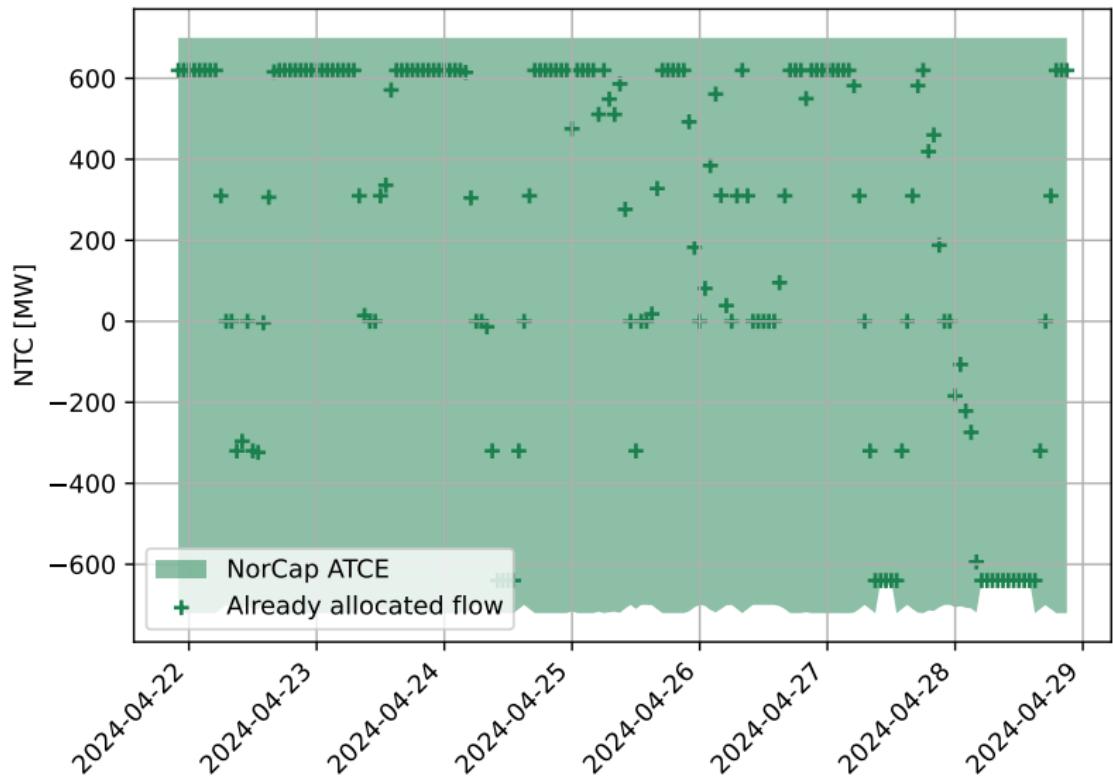
NO1-NO2
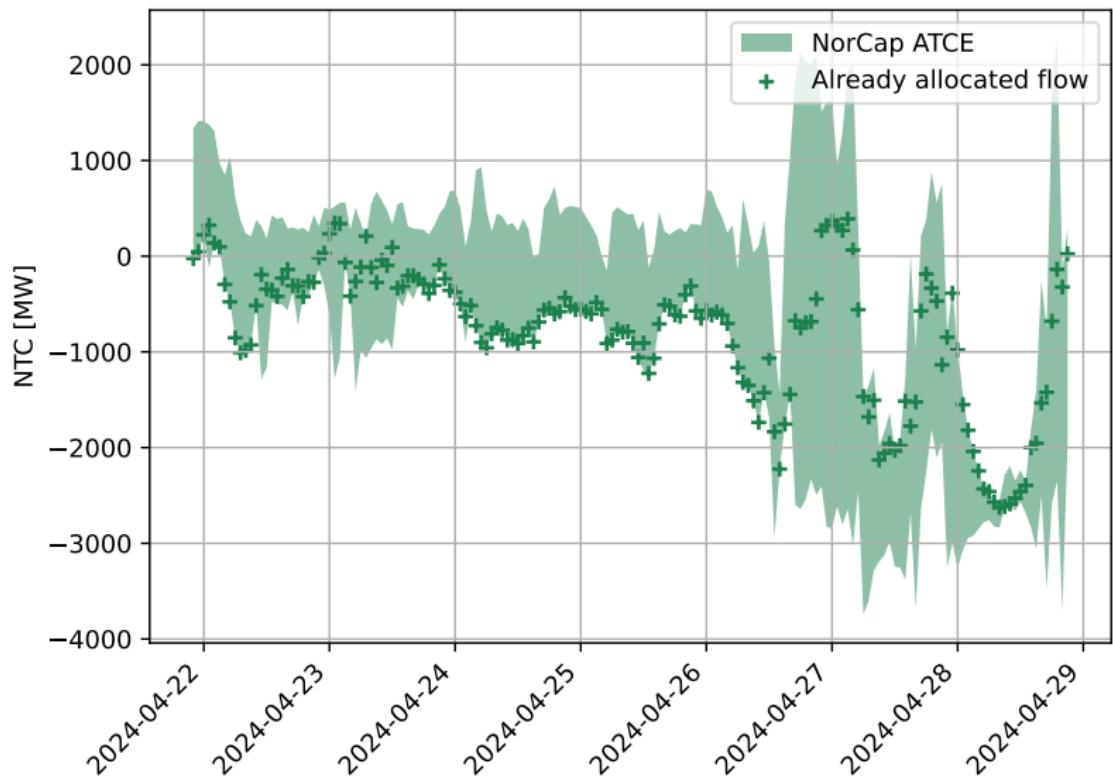
NO2-NO1

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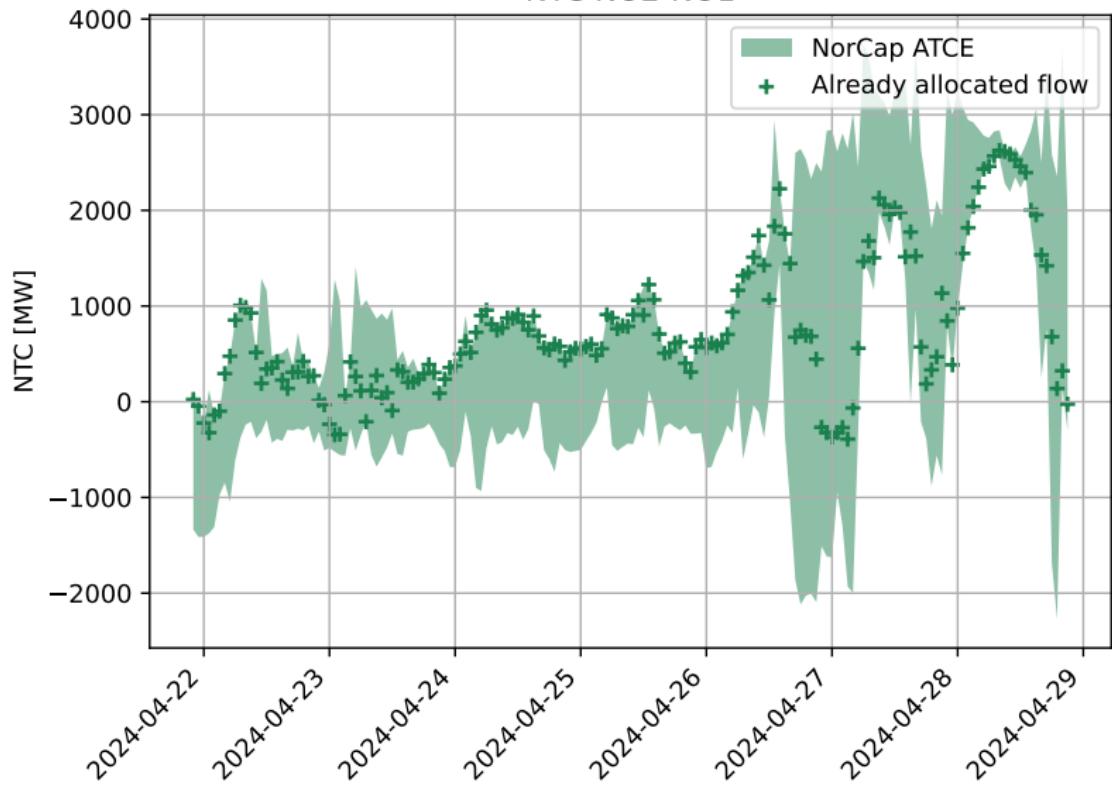
NO1-NO3

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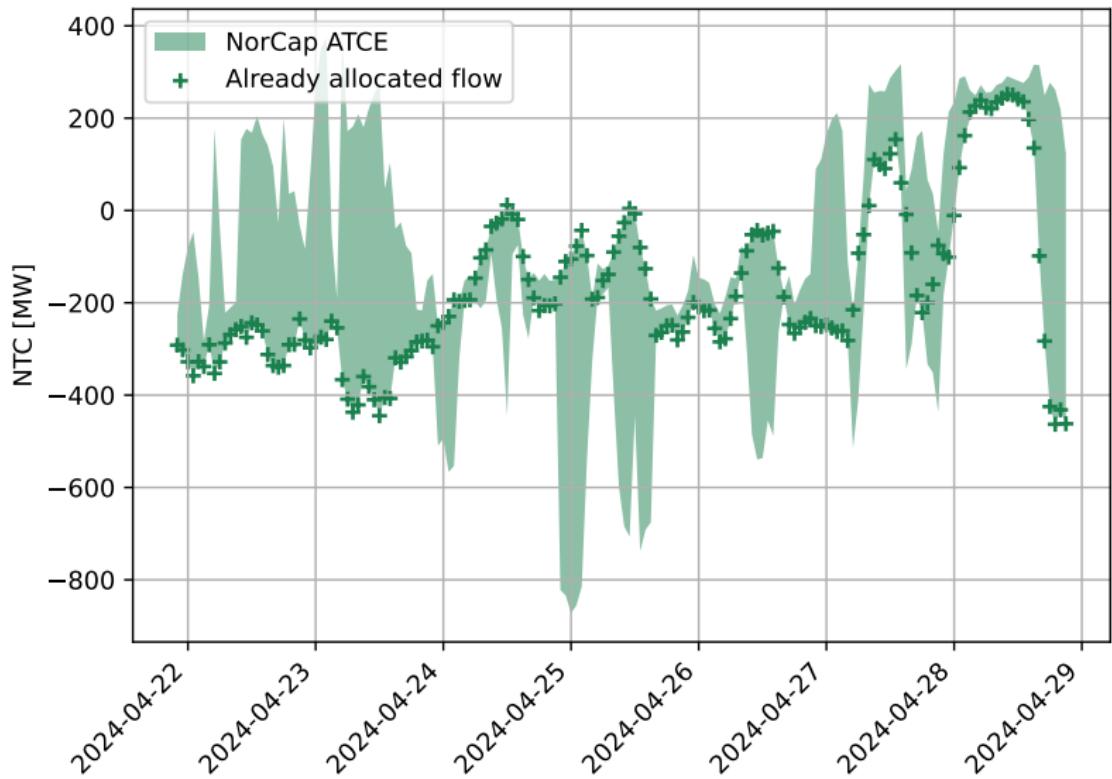
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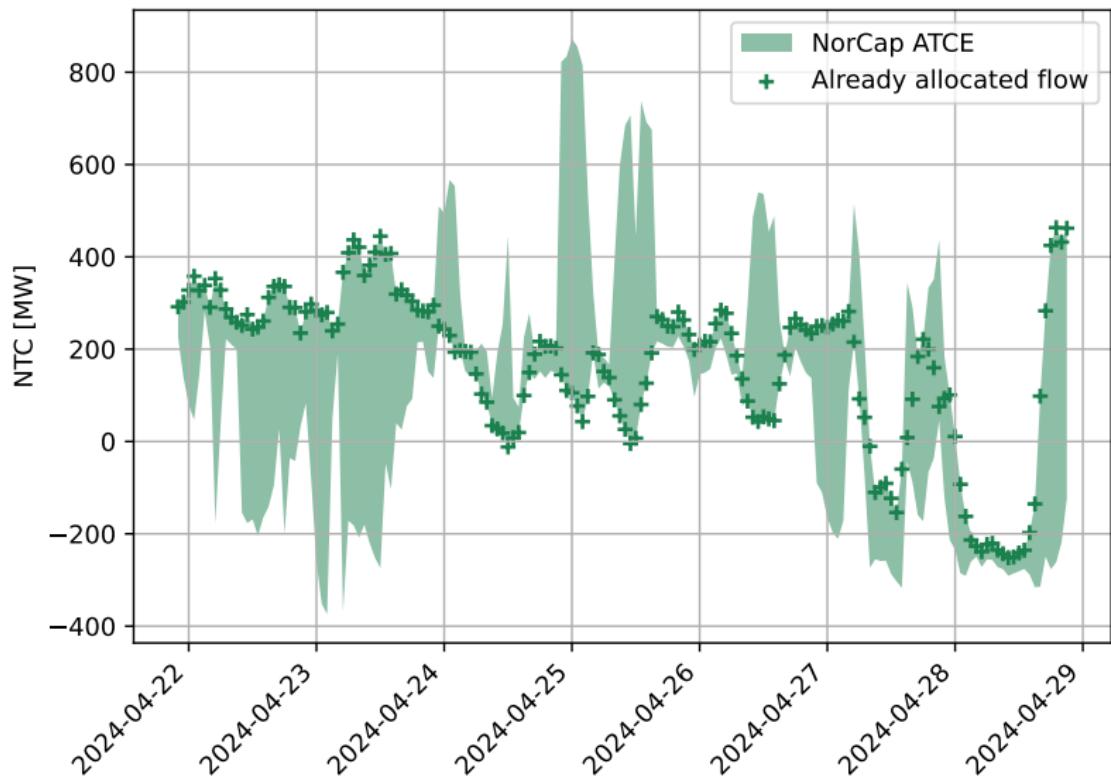
NO1-NO5

NTC NO1-NO5
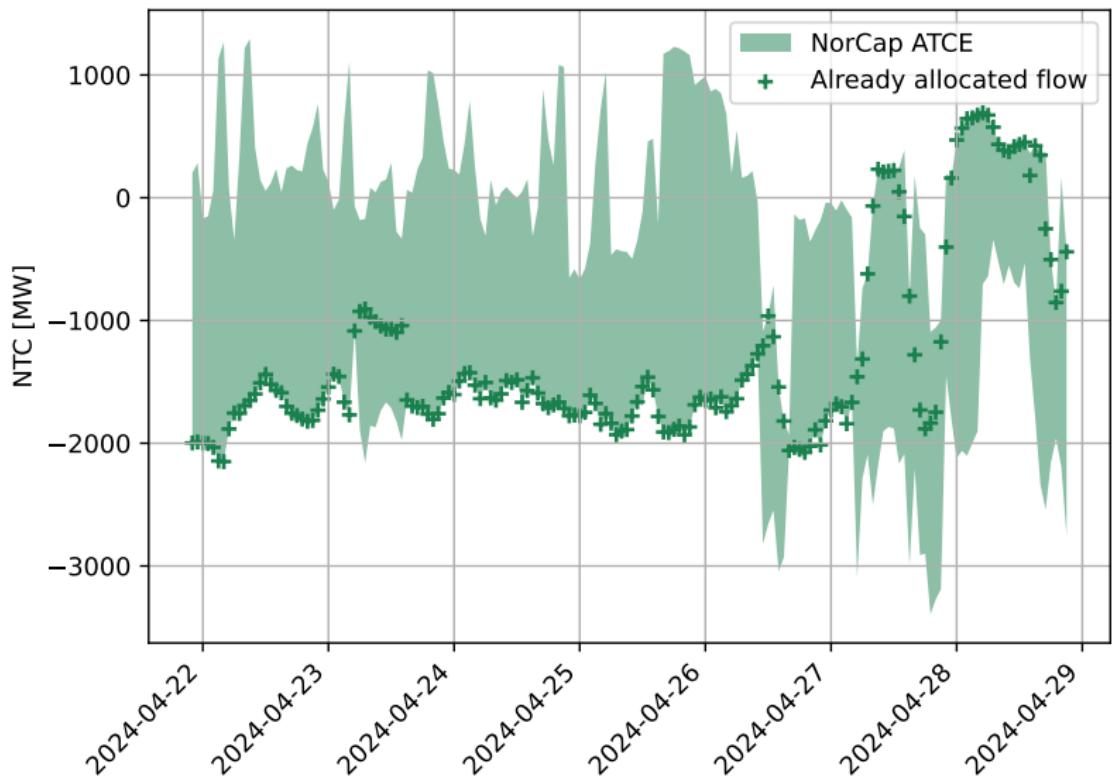
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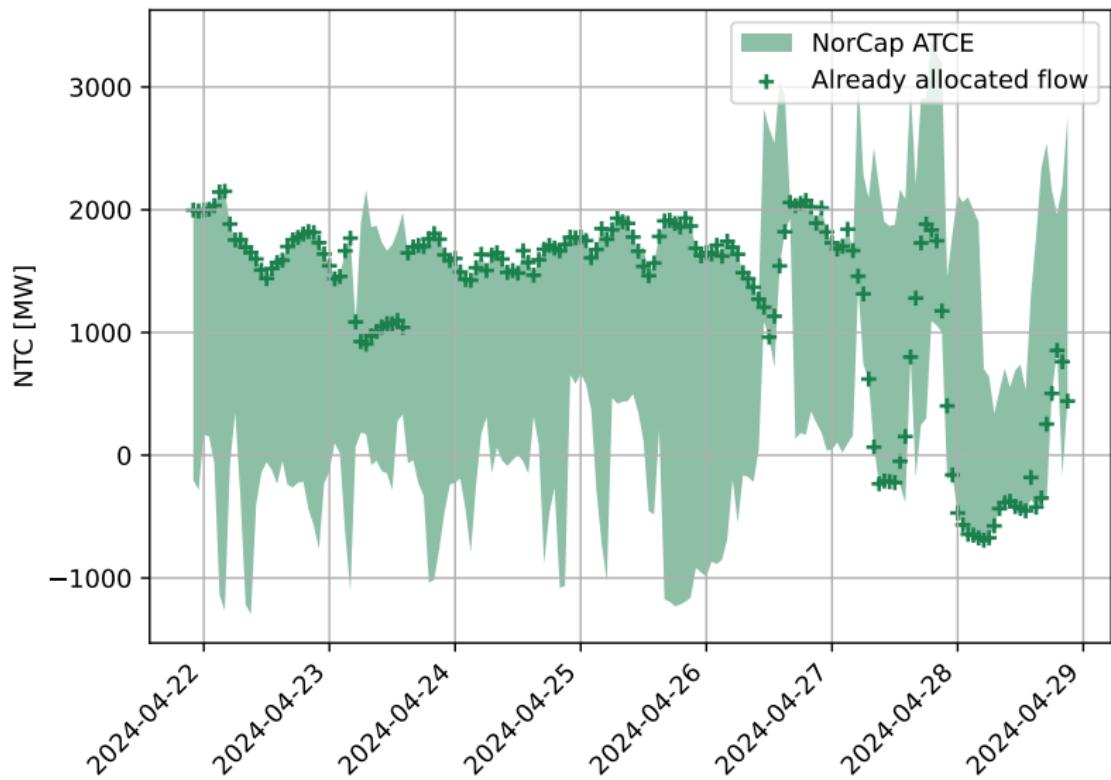
NO1-SE3

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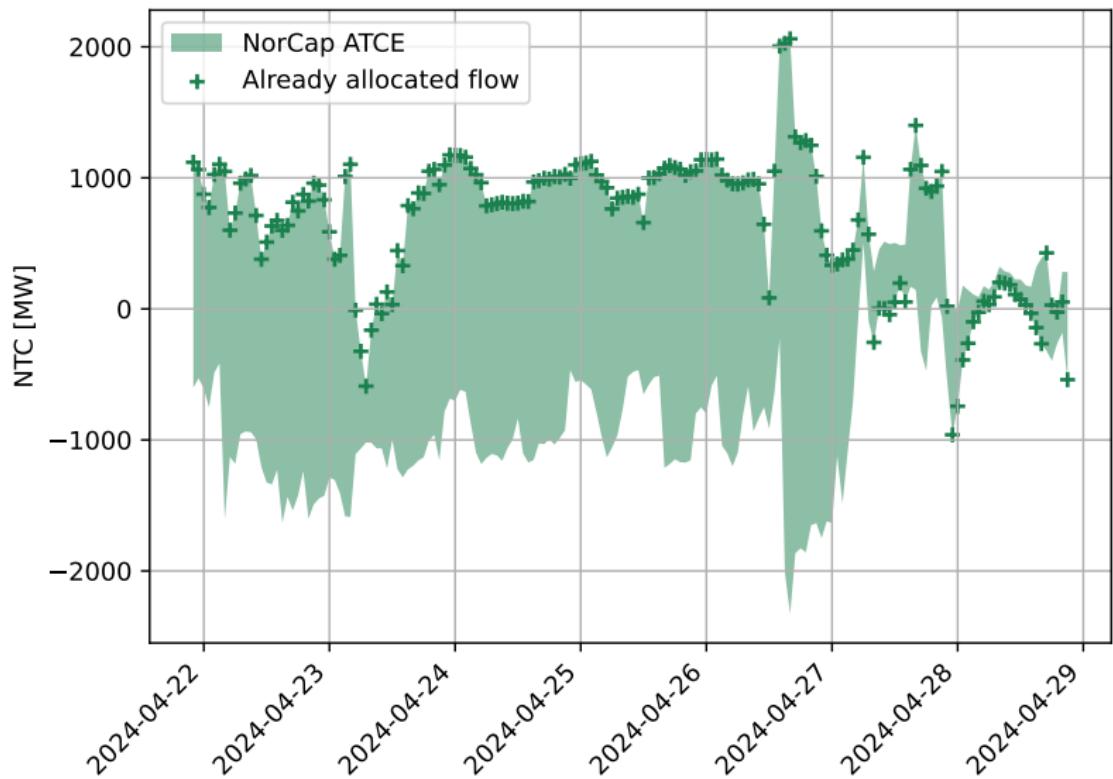
SE3-NO1

NTC SE3-NO1
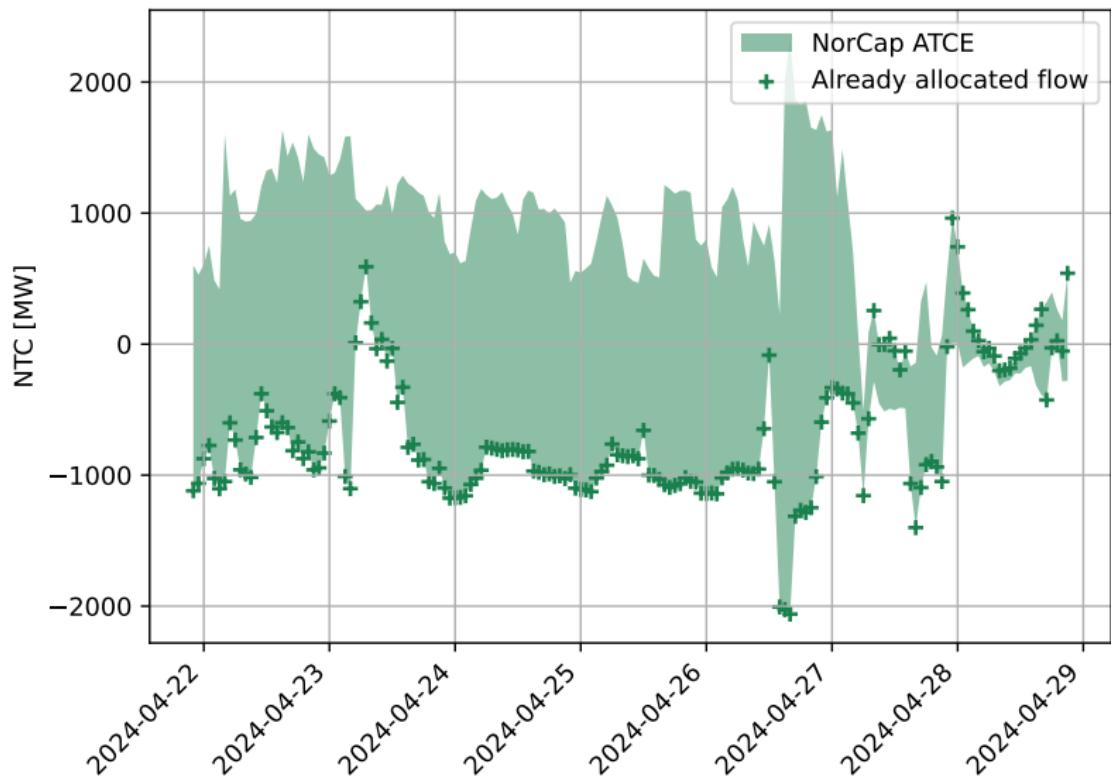
NO2A-NO2
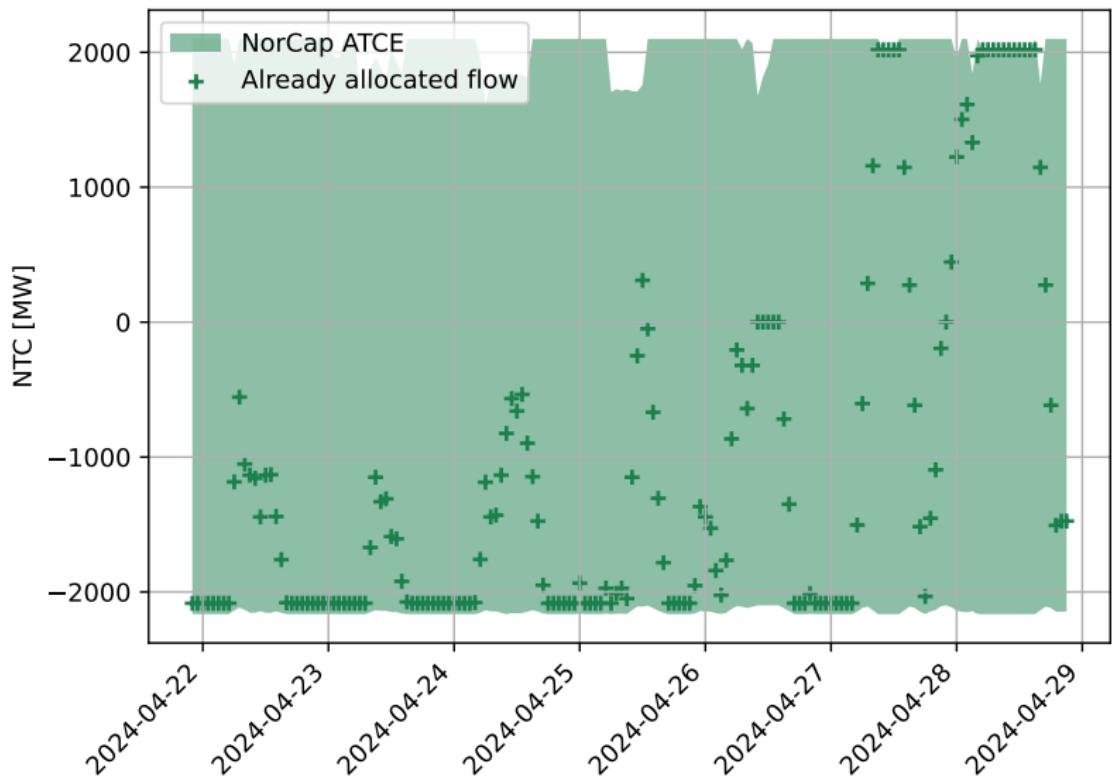
NO2-NO2A
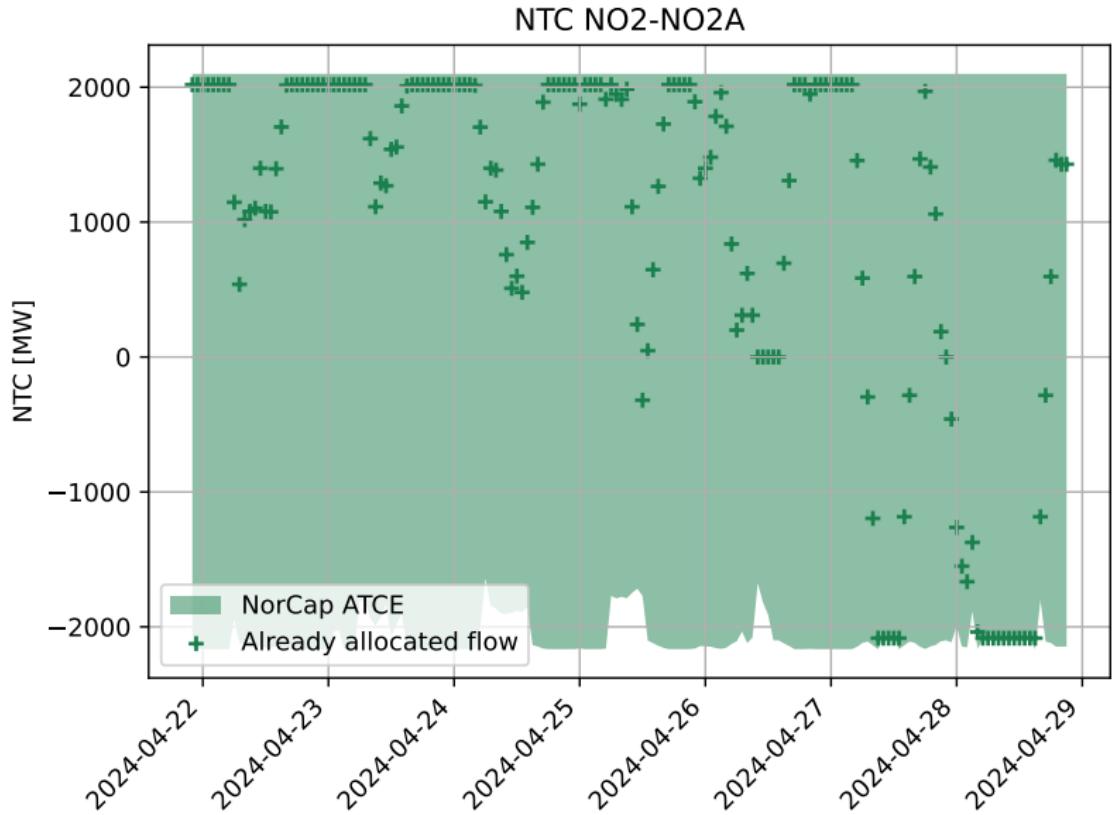
NO2-NO5

NTC NO2-NO5
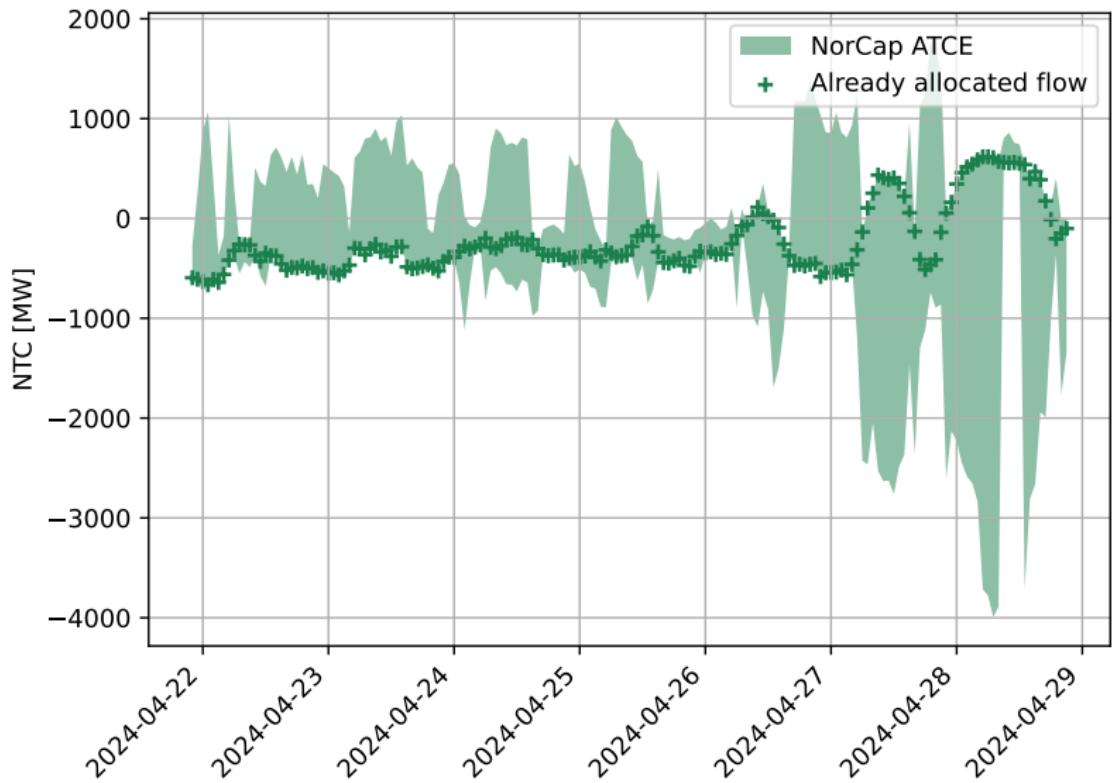
NO5-NO2

NO3-NO4
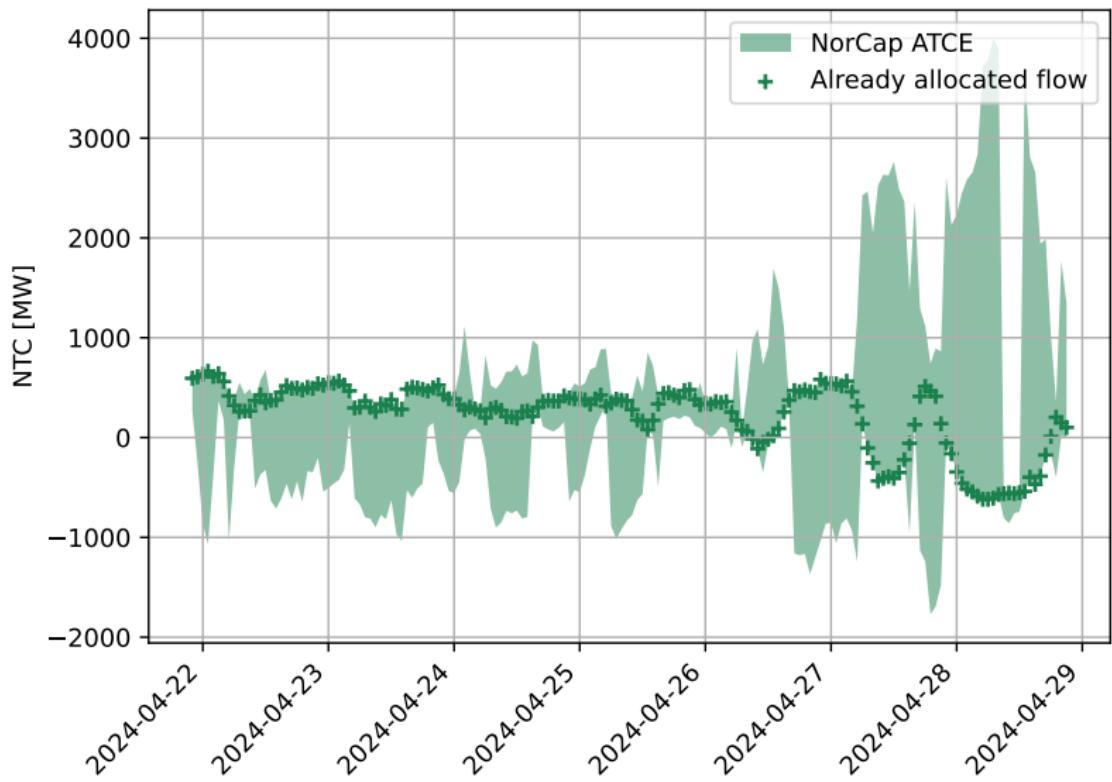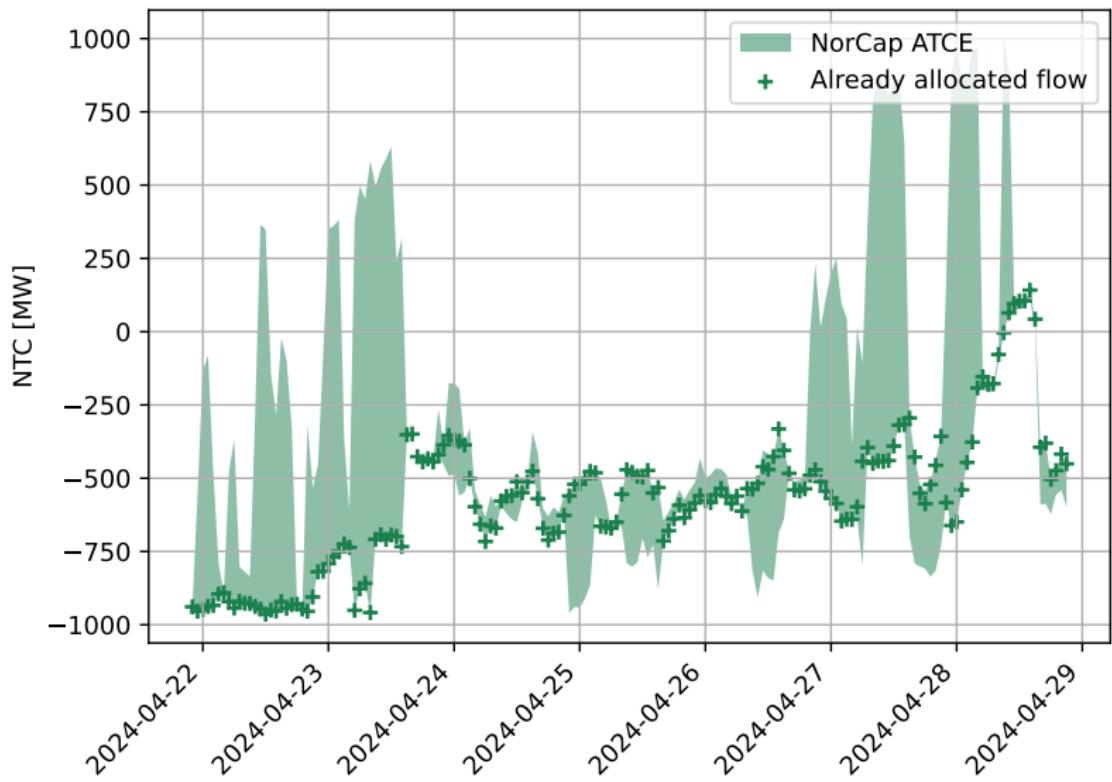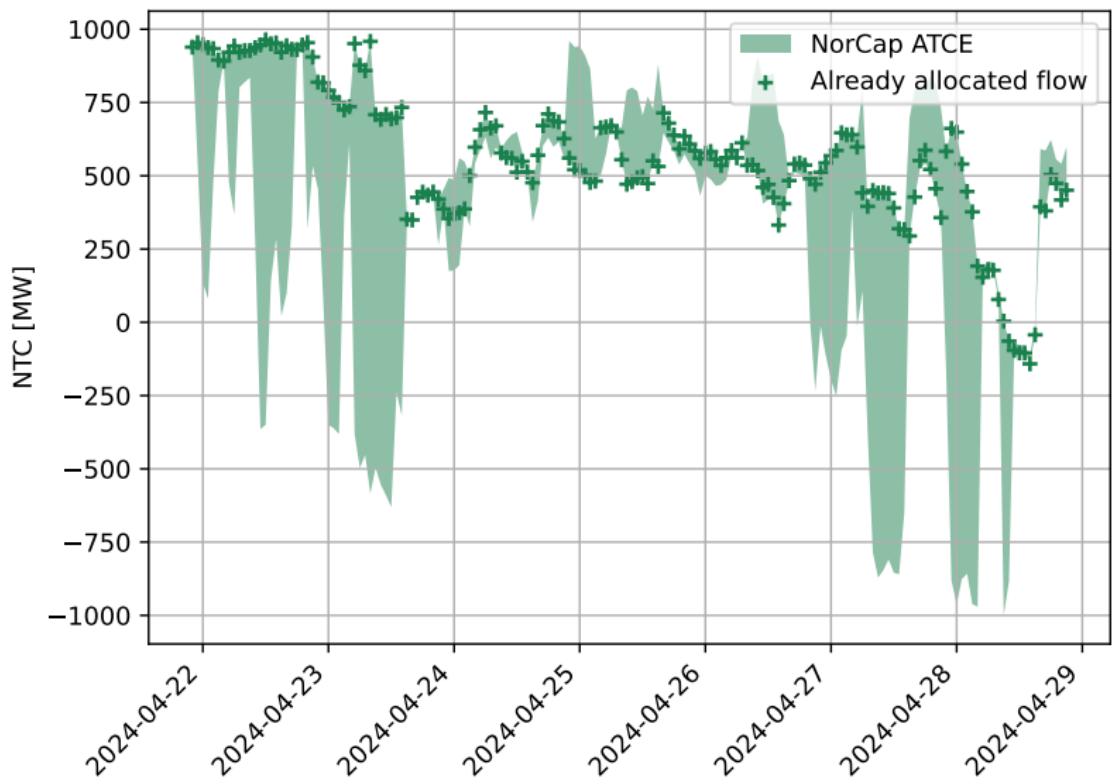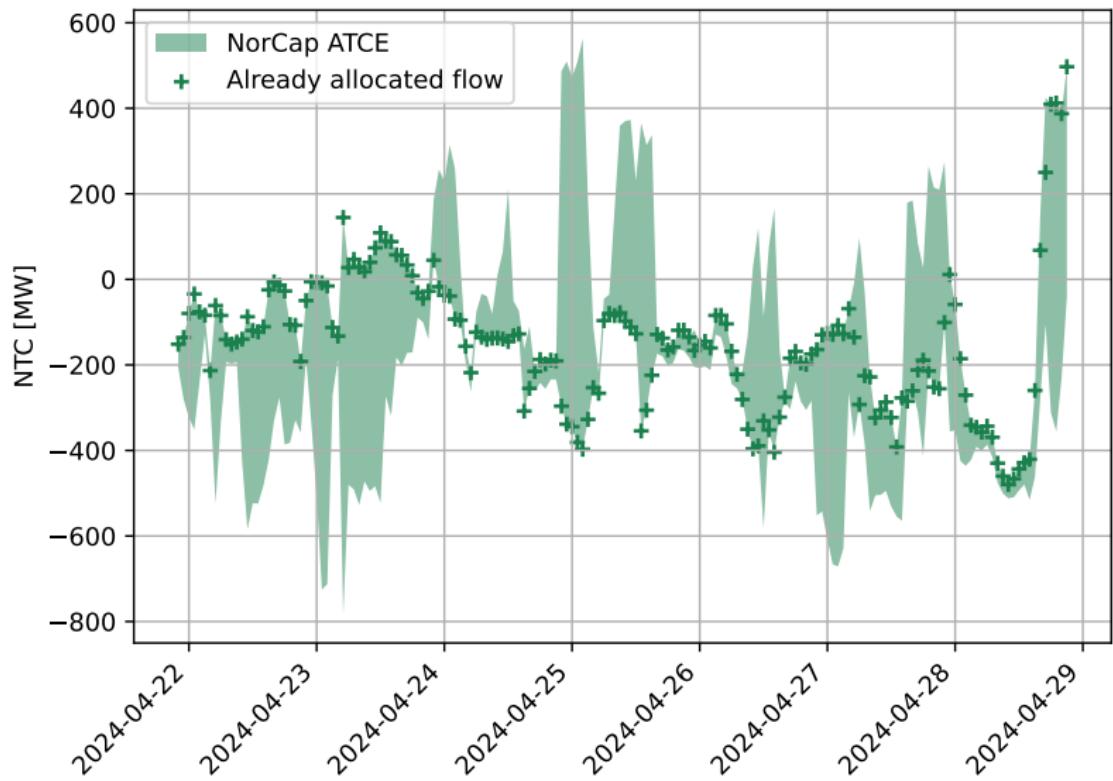
NO4-NO3

NO3-NO5

NO5-NO3
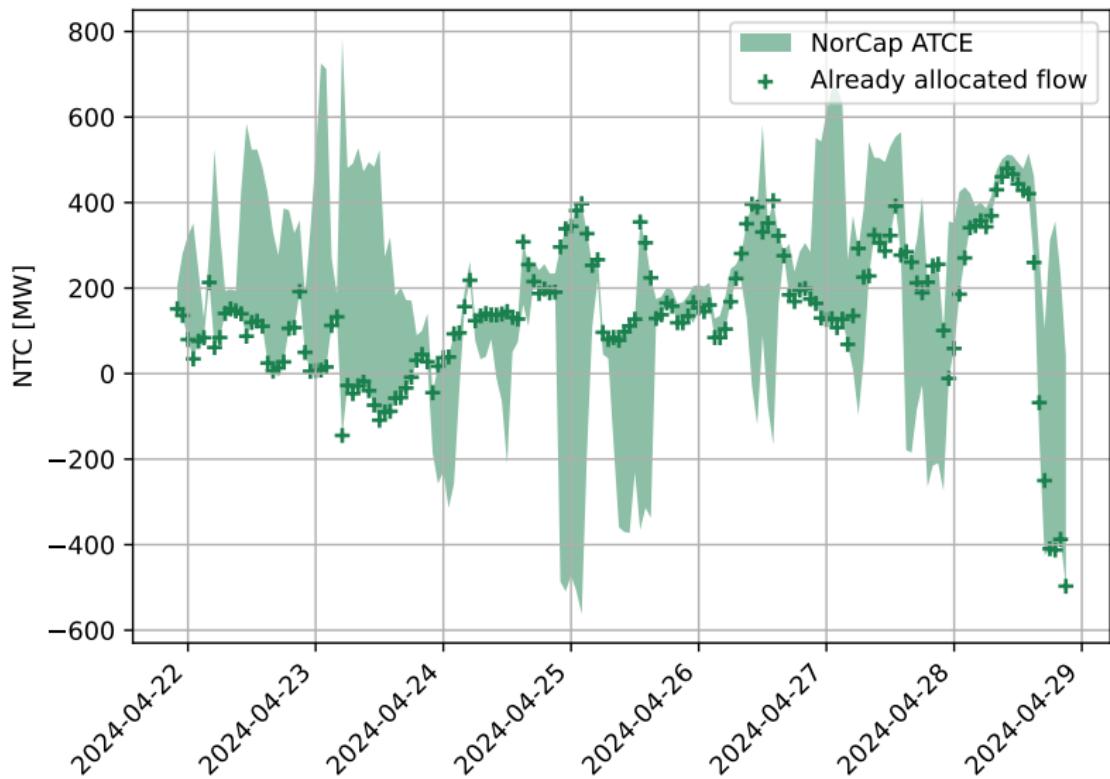
NO3-SE2

NTC NO3-SE2

SE2-NO3

NO4-SE1

Figure: NTC NO4-SE1. Legend — NorCap ATCE; Already allocated flow. Y-axis: NTC [MW]. X-axis dates from 2024-04-22 to 2024-04-29.
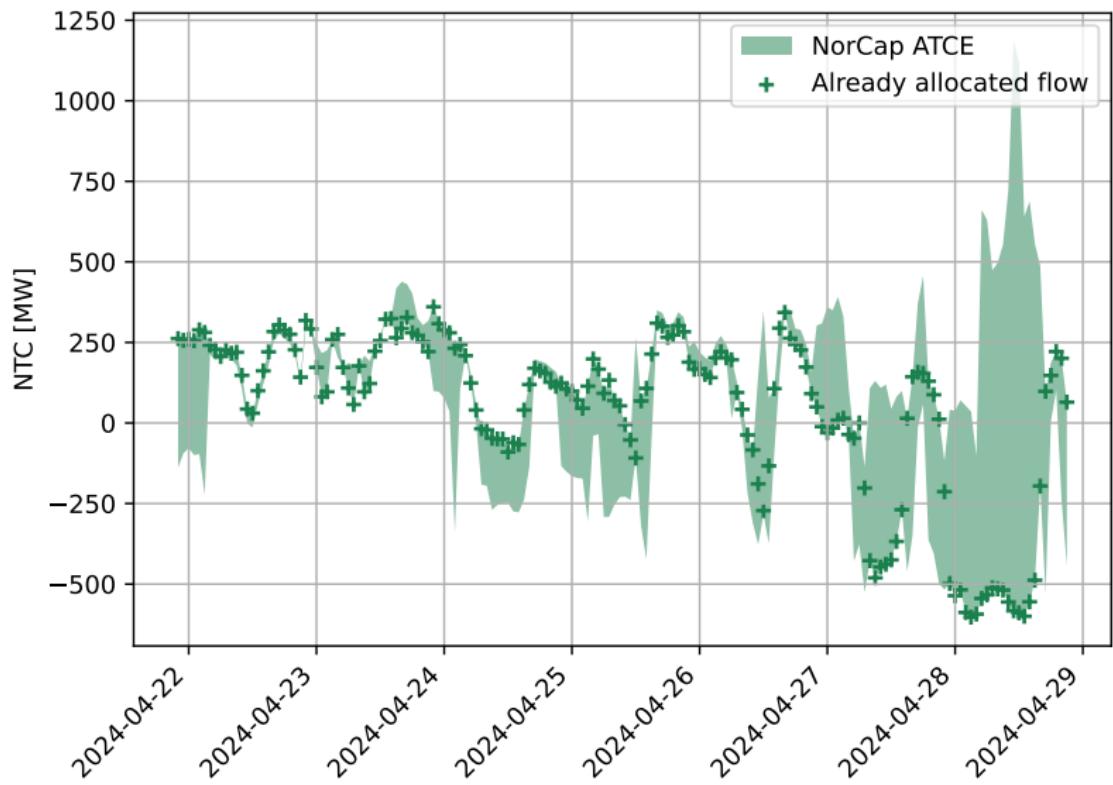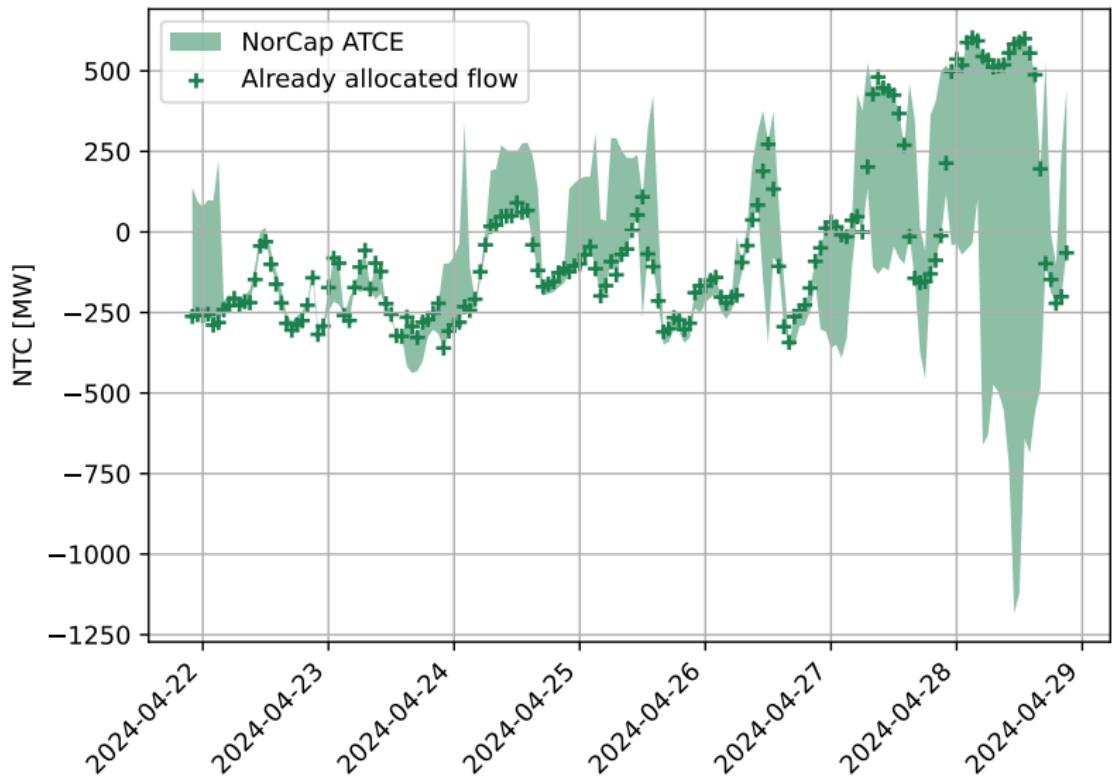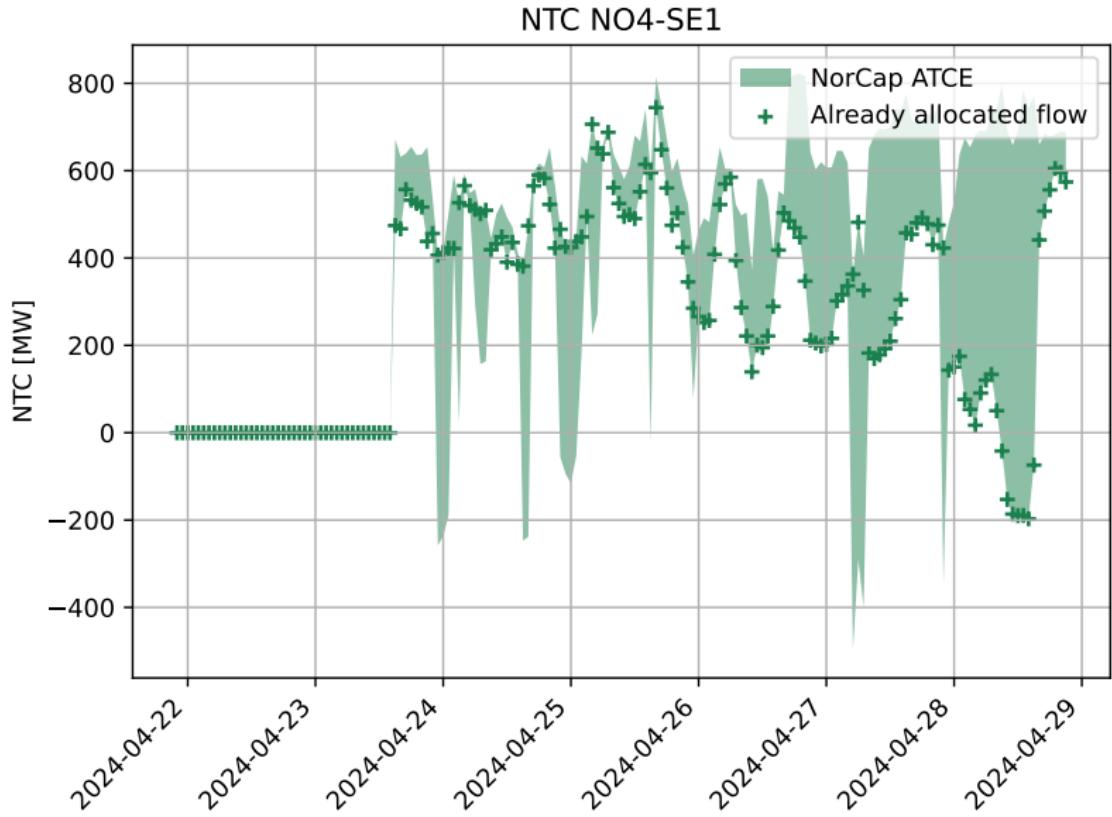
SE1-NO4

NTC SE1-NO4
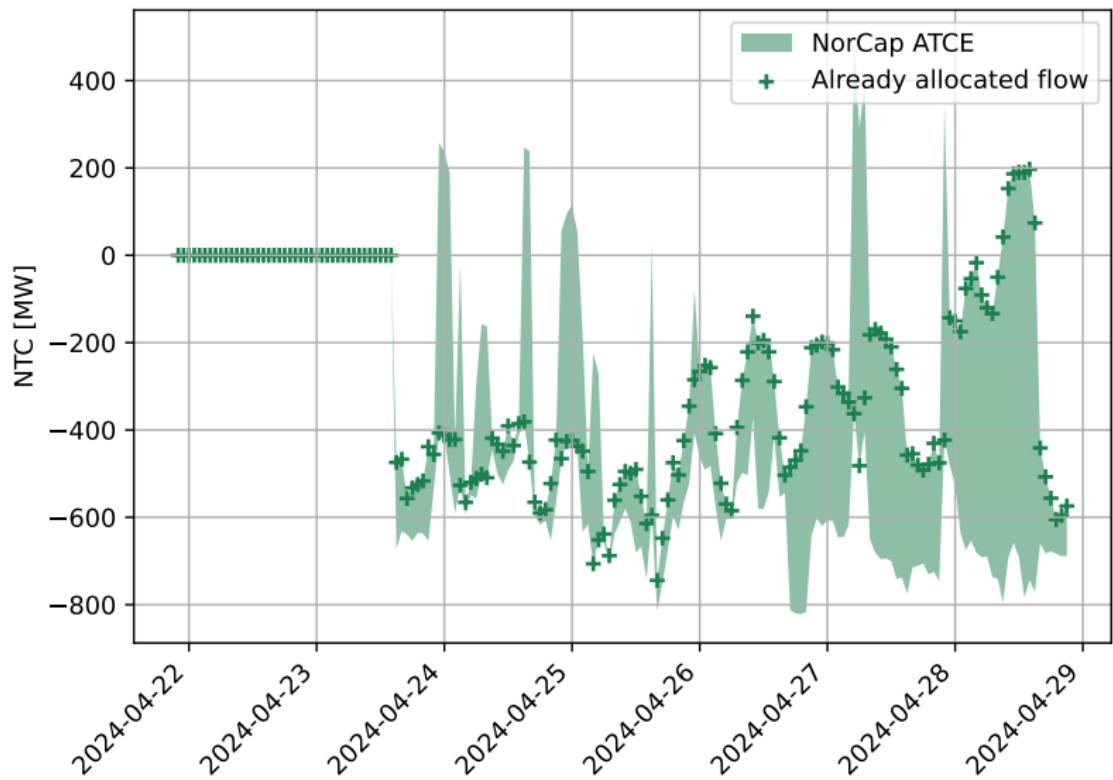
NO4-SE2
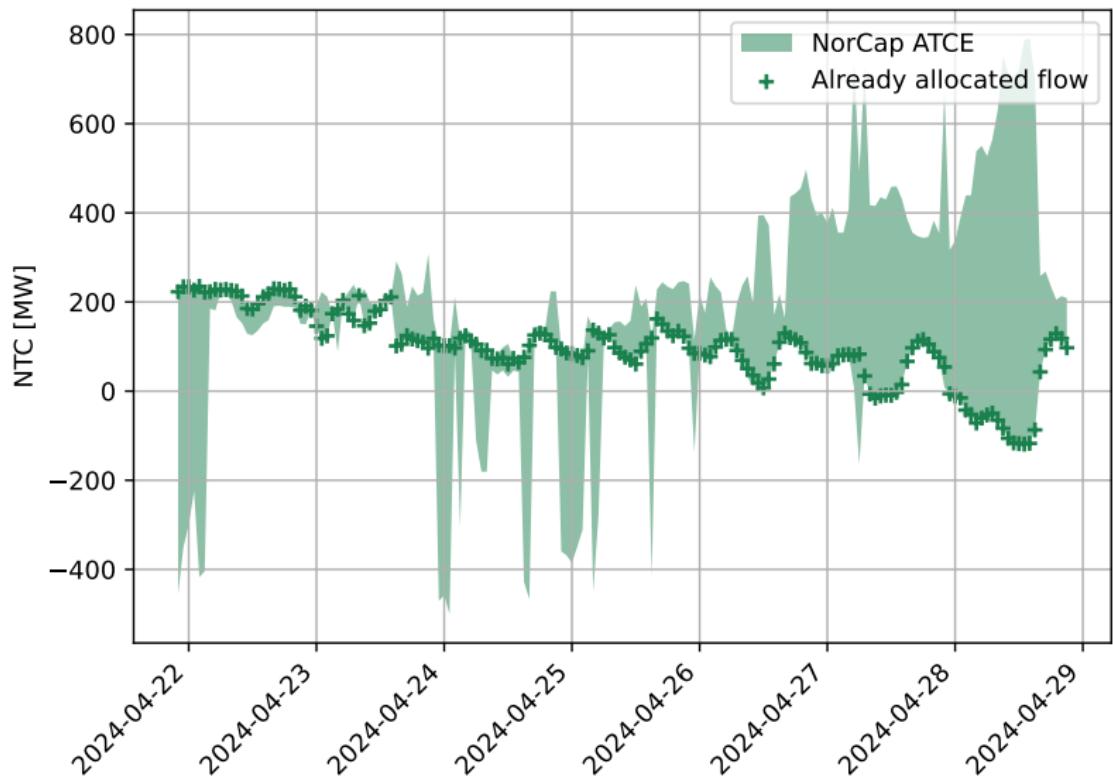
SE2-NO4
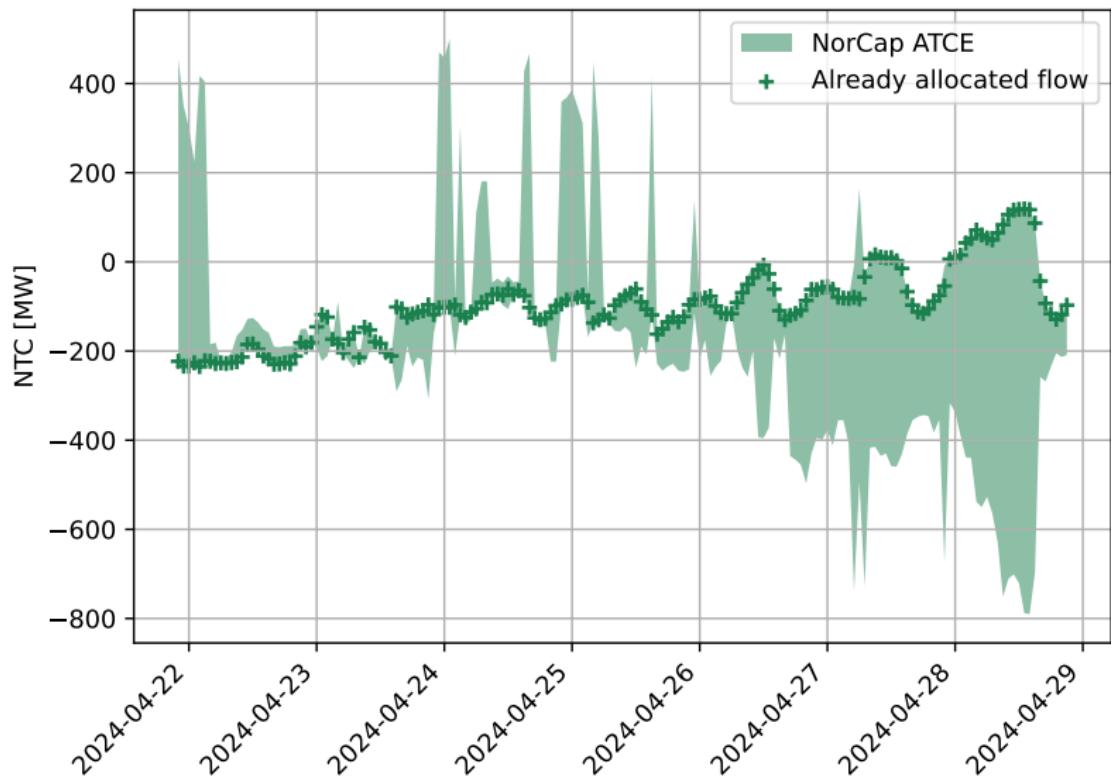
PL-SE4

NTC PL-SE4
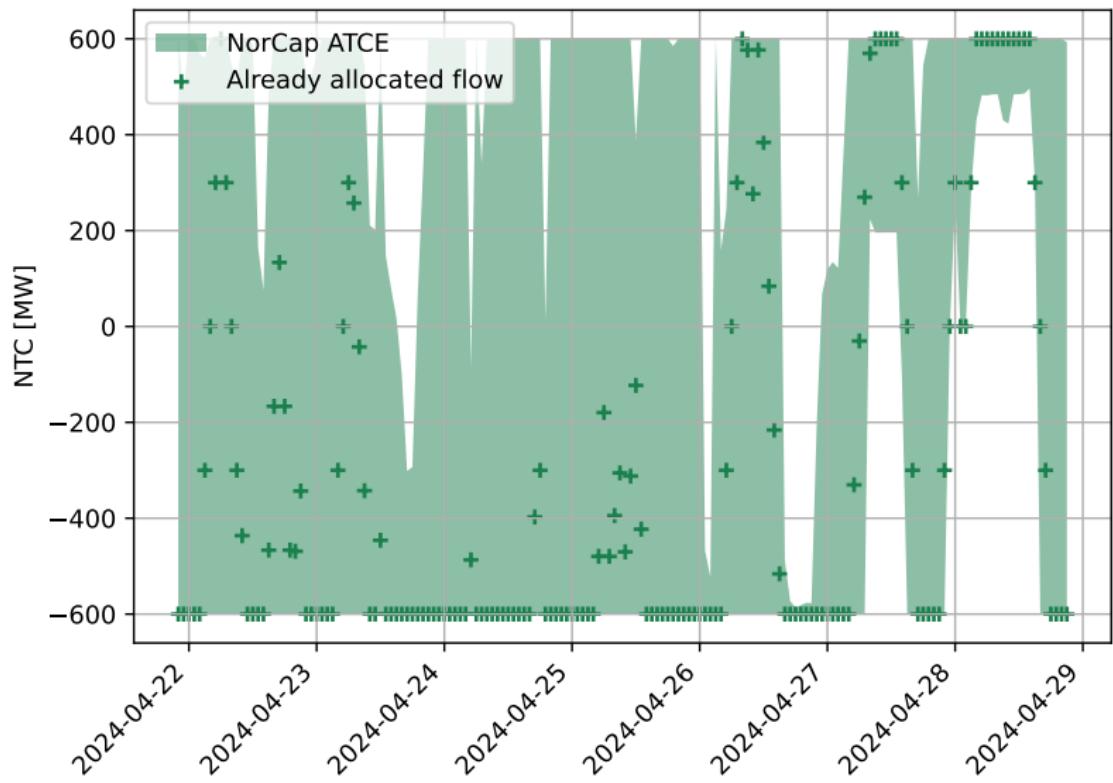
SE4-PL

NTC SE4-PL
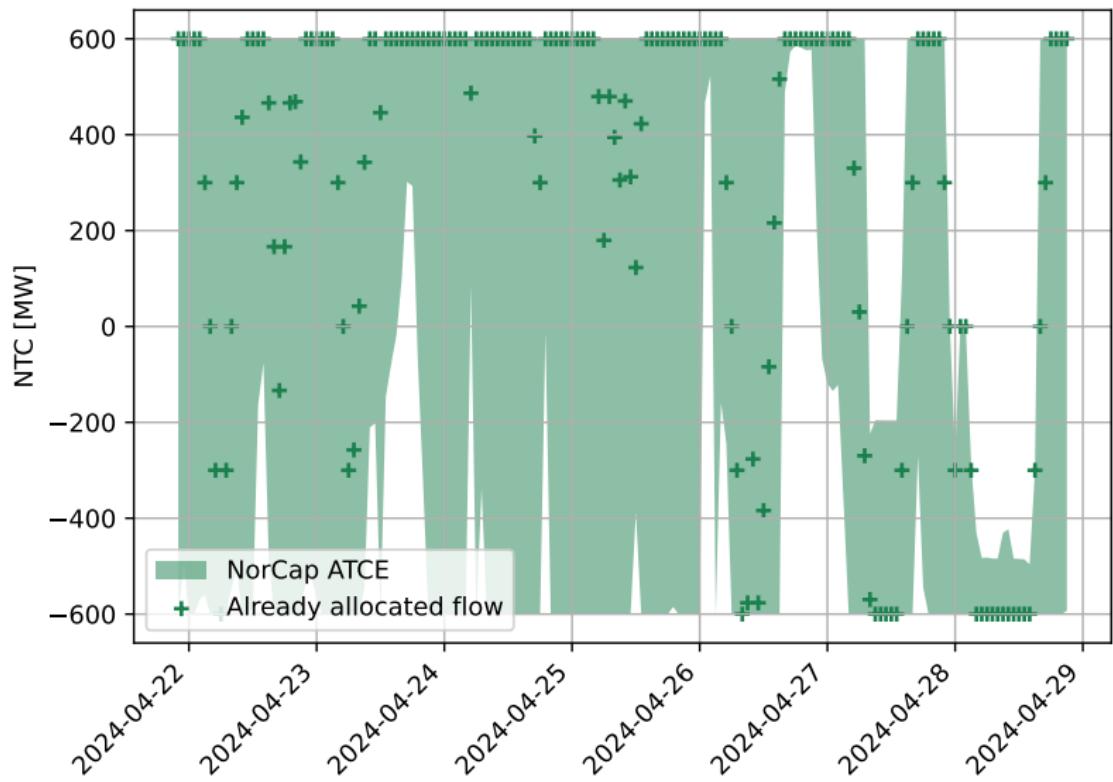
SE1-SE2

NTC SE1-SE2
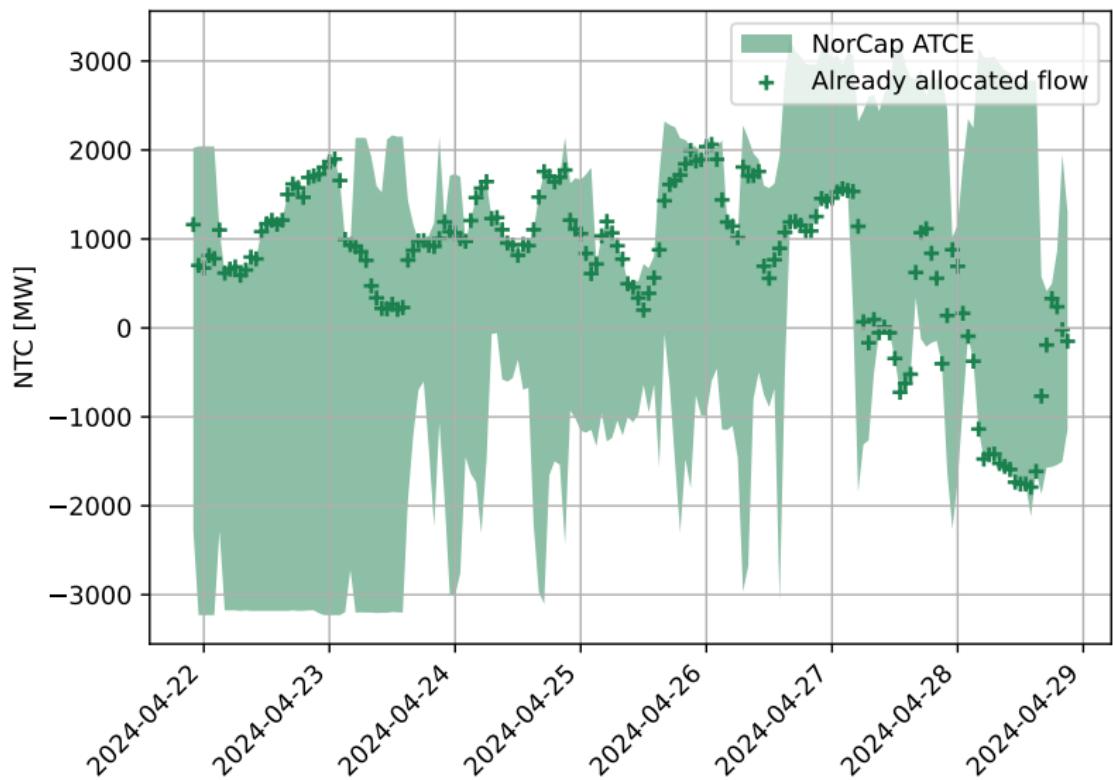
SE2-SE1
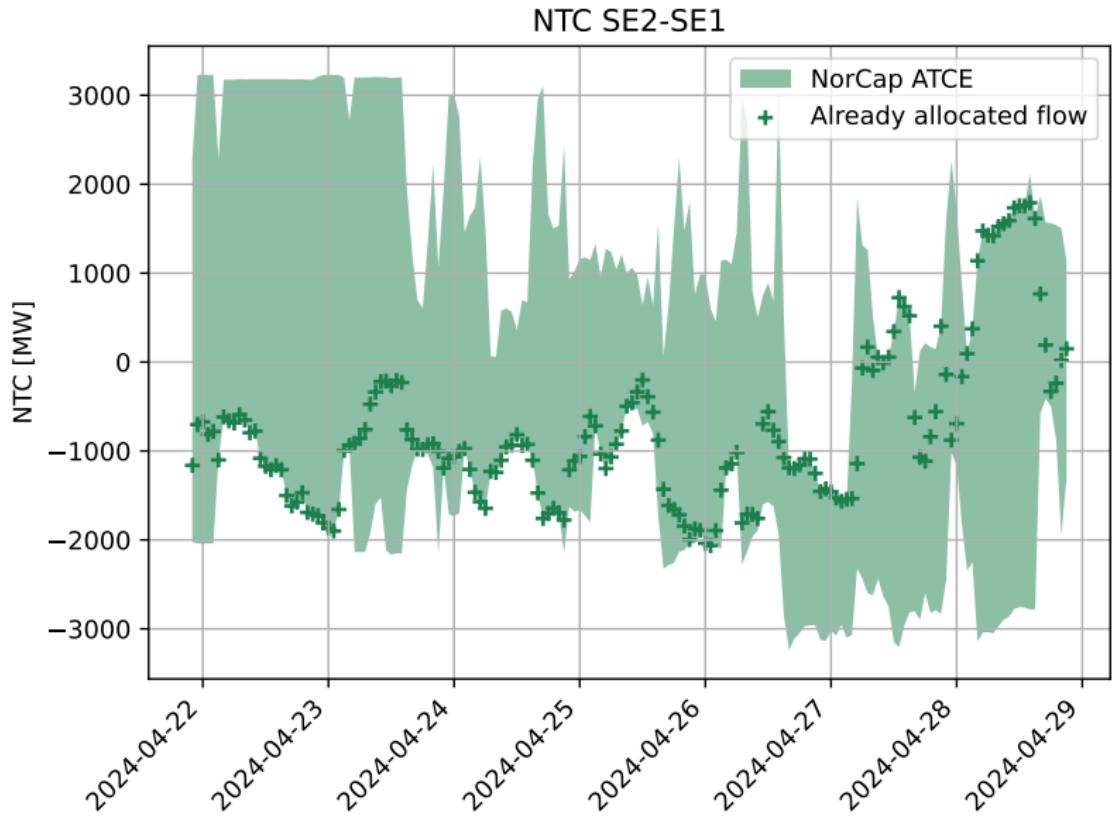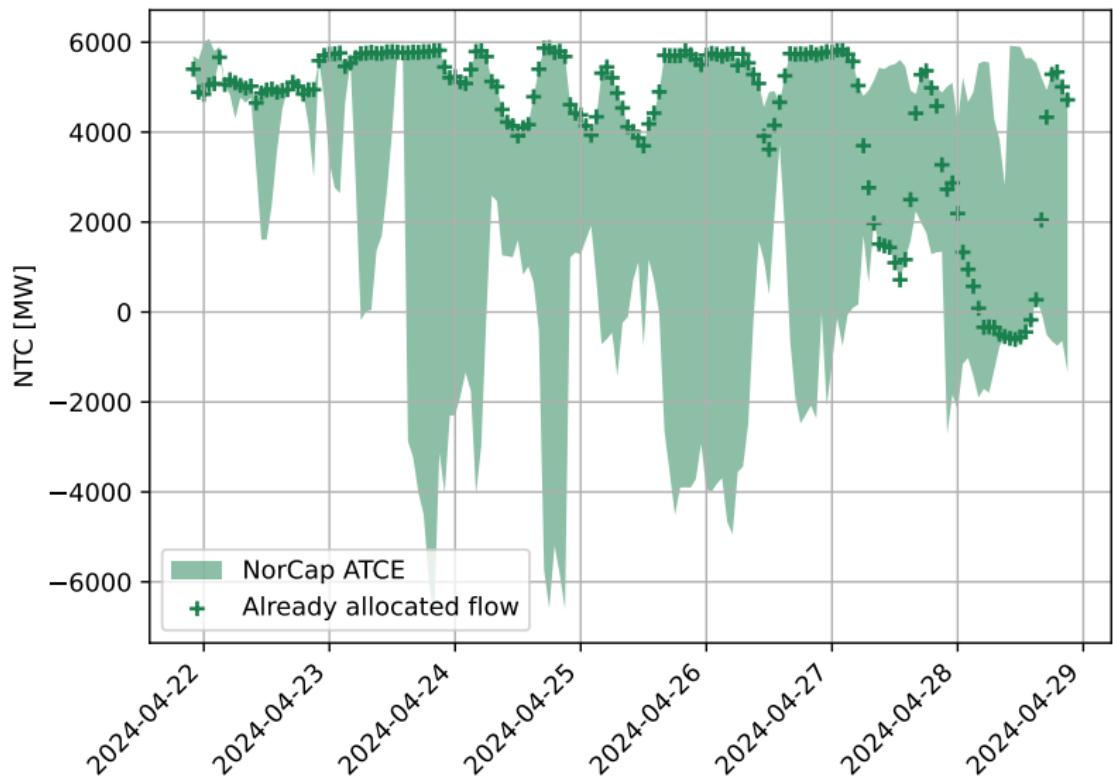
NTC SE2-SE1

SE2-SE3

SE3-SE2

SE3_ACDC-SE4_ACDC
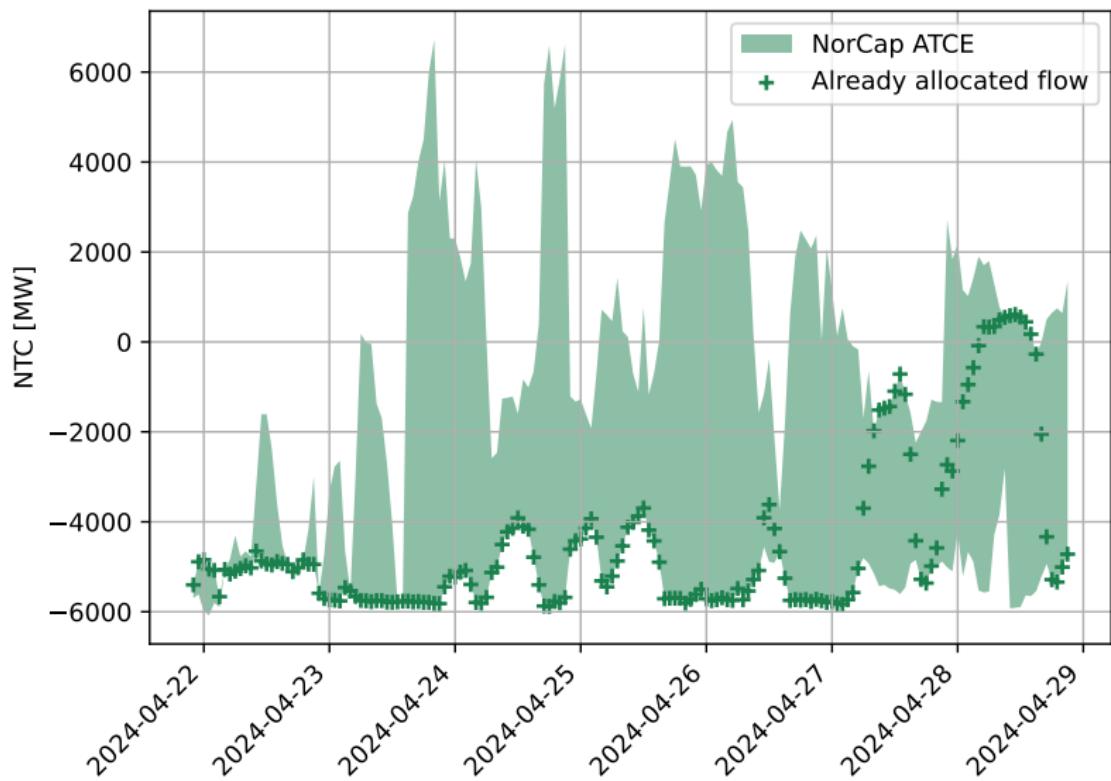
SE4_ACDC-SE3_ACDC
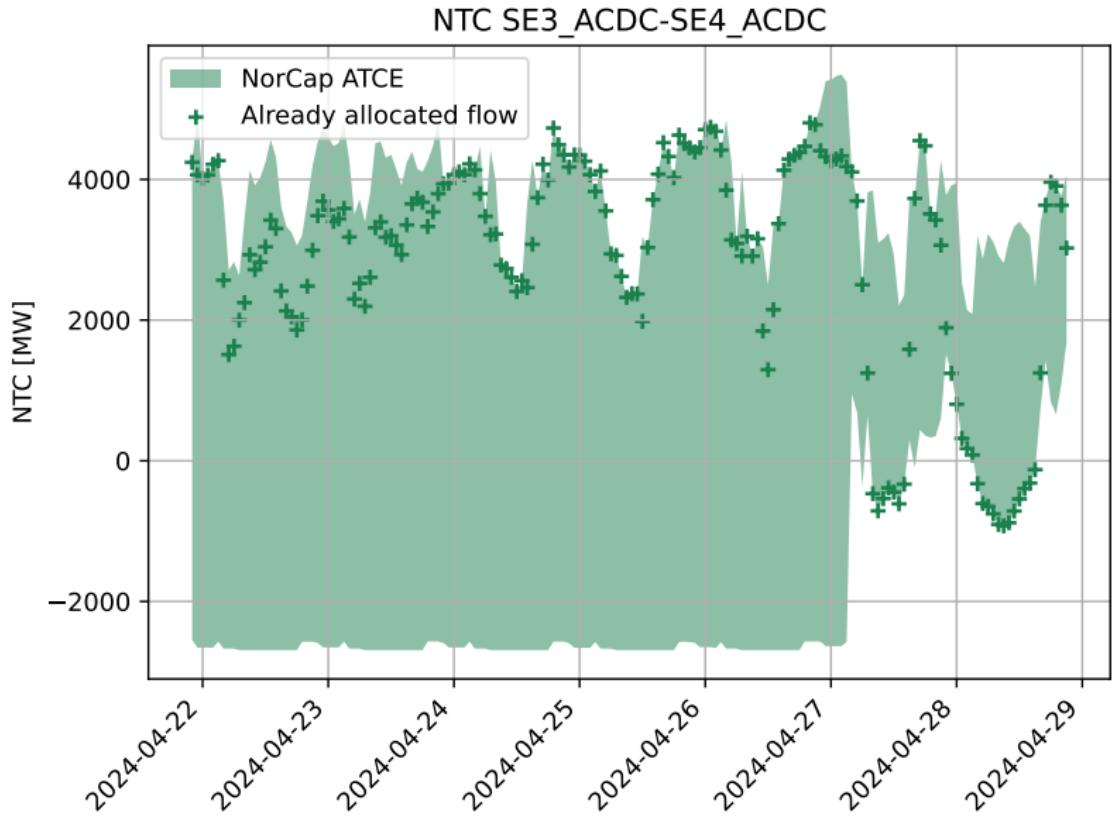
NTC SE4_ACDC-SE3_ACDC
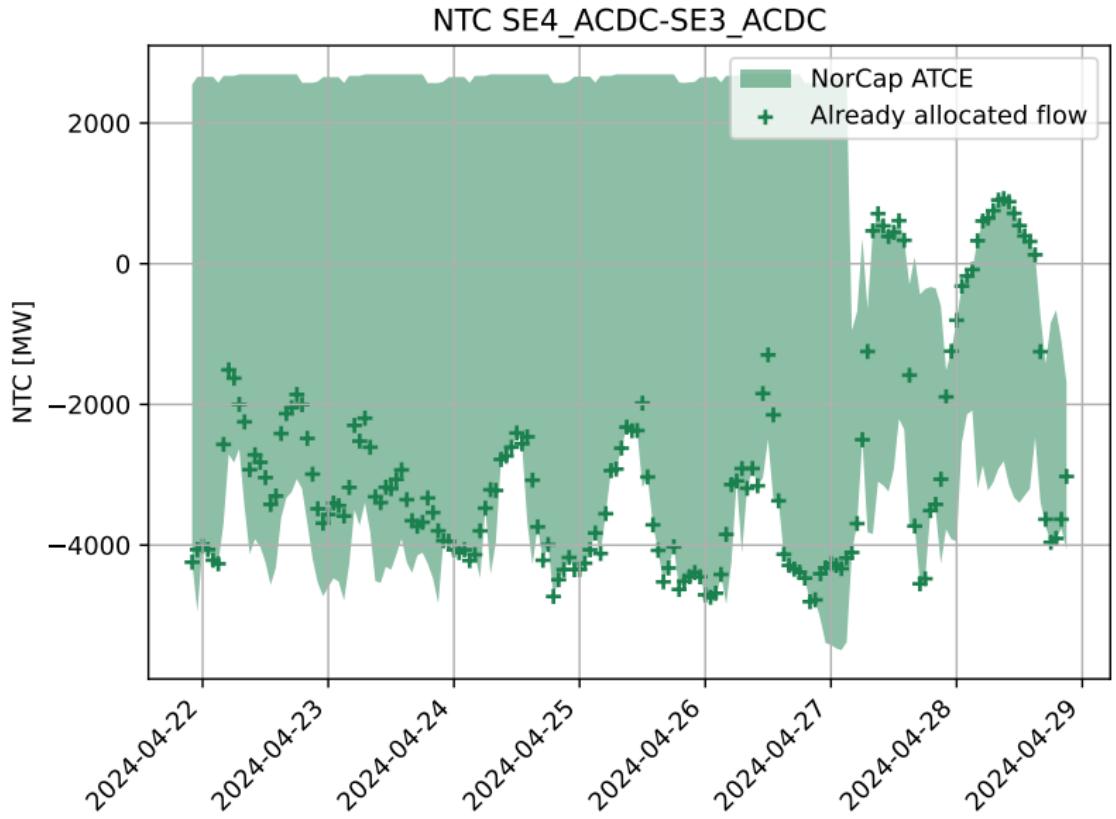
# SE3_SWL-SE4_SWL
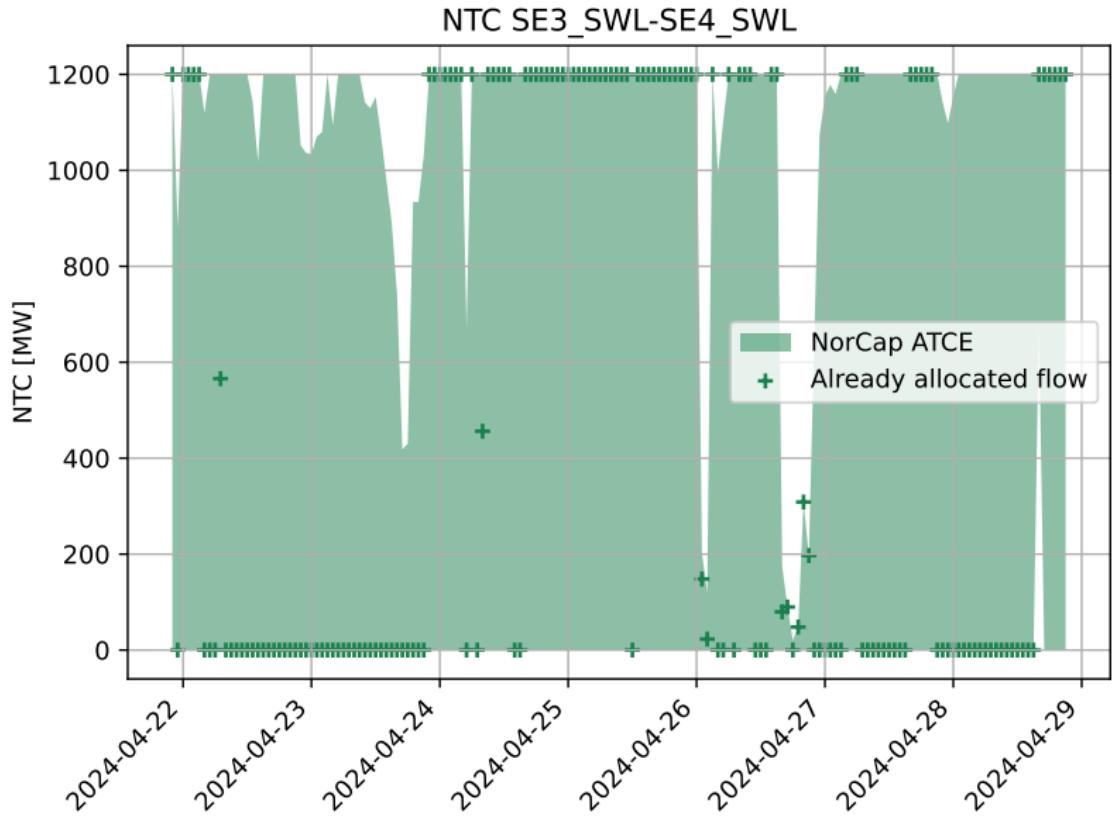
SE4_SWL-SE3_SWL
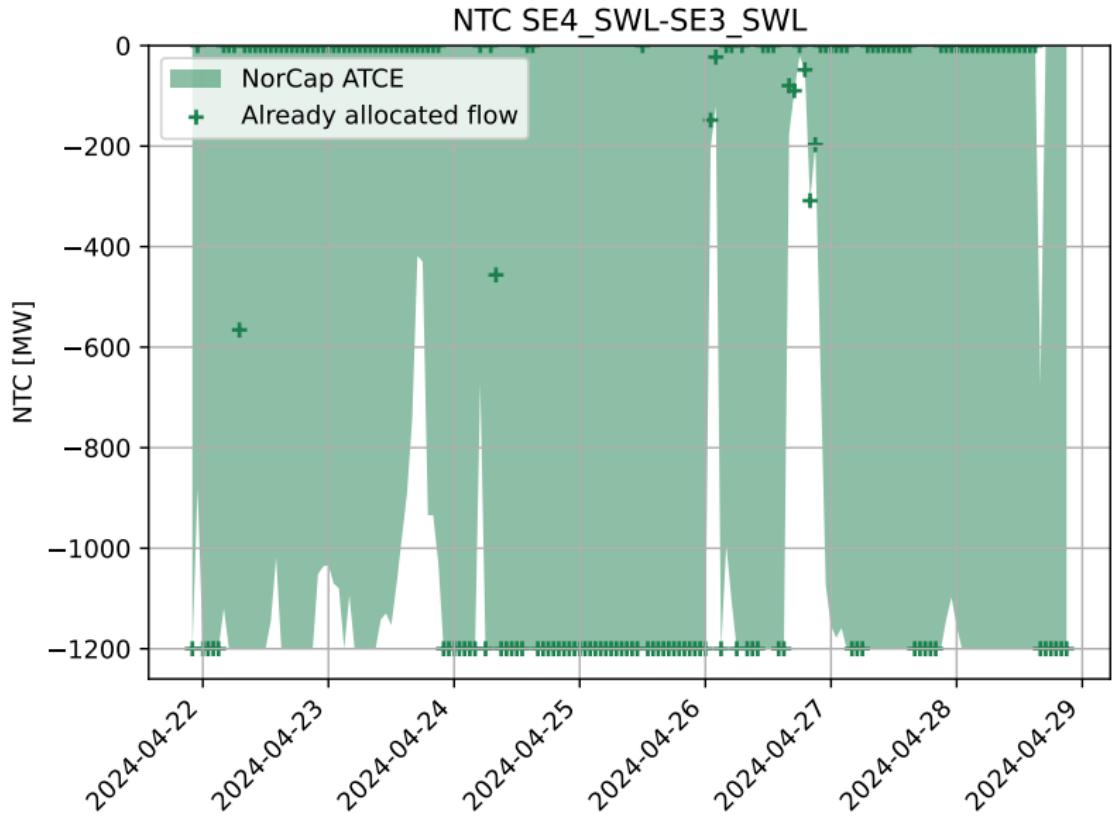
SE3A-SE3
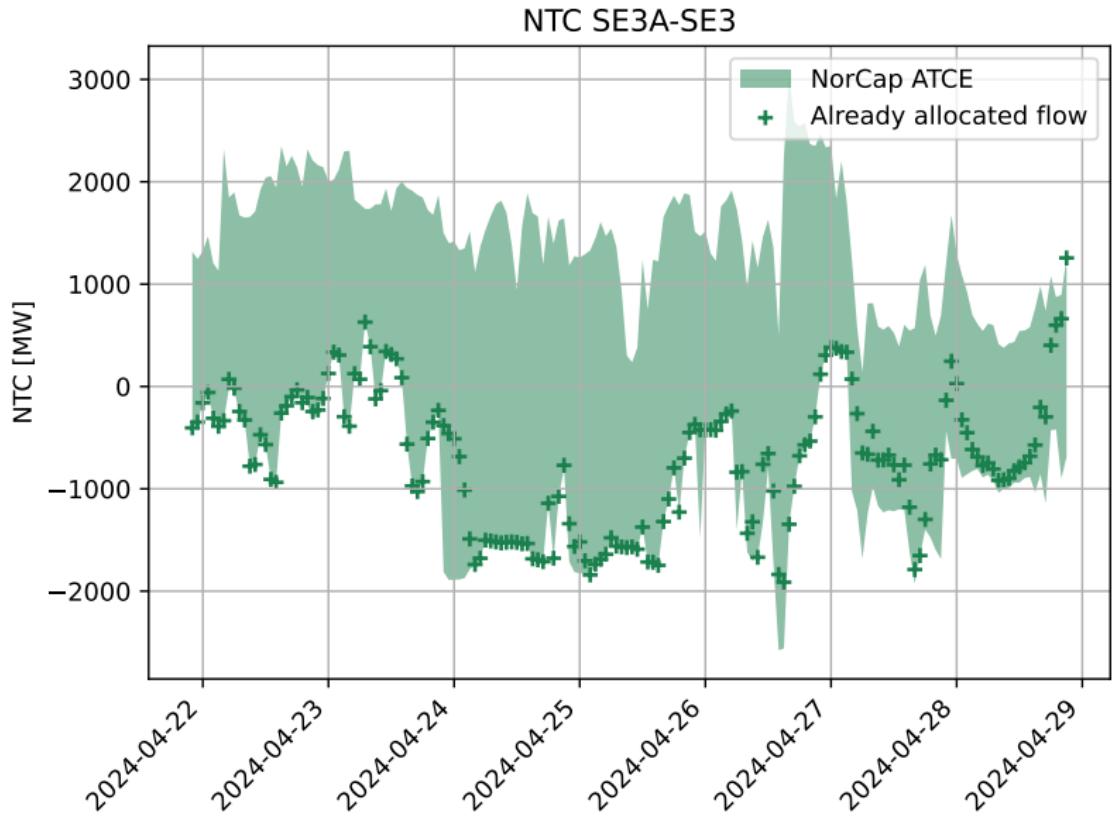
NTC SE3A-SE3

SE3-SE3A
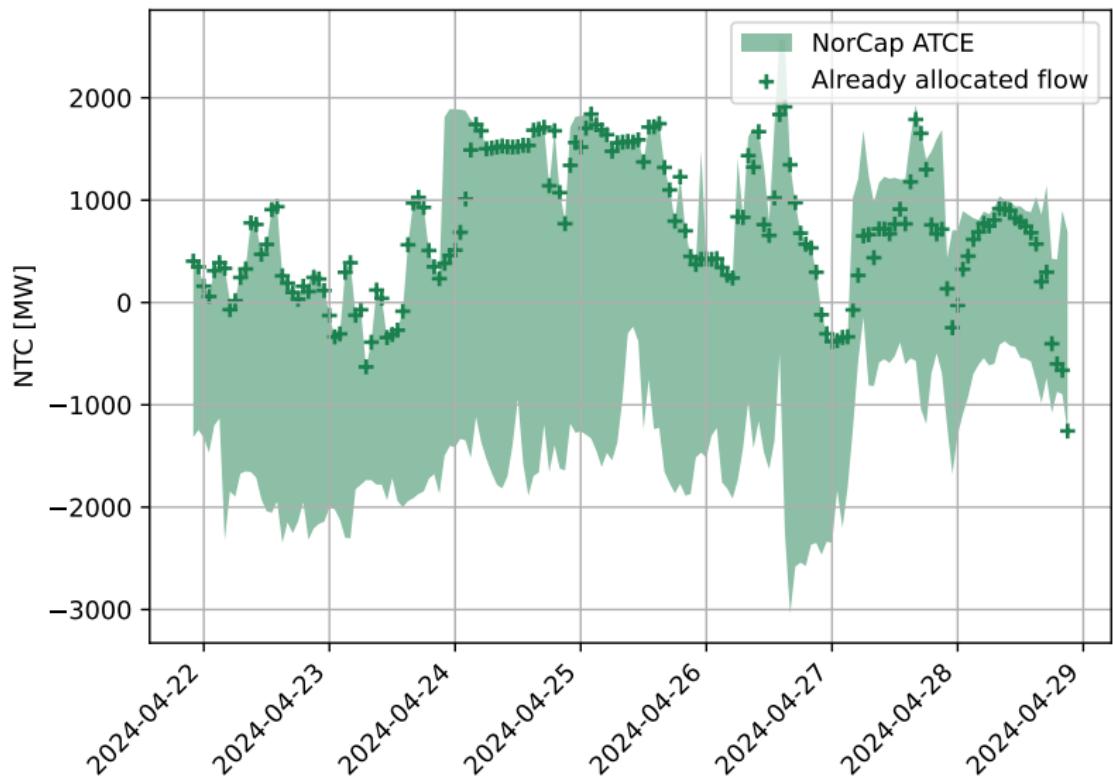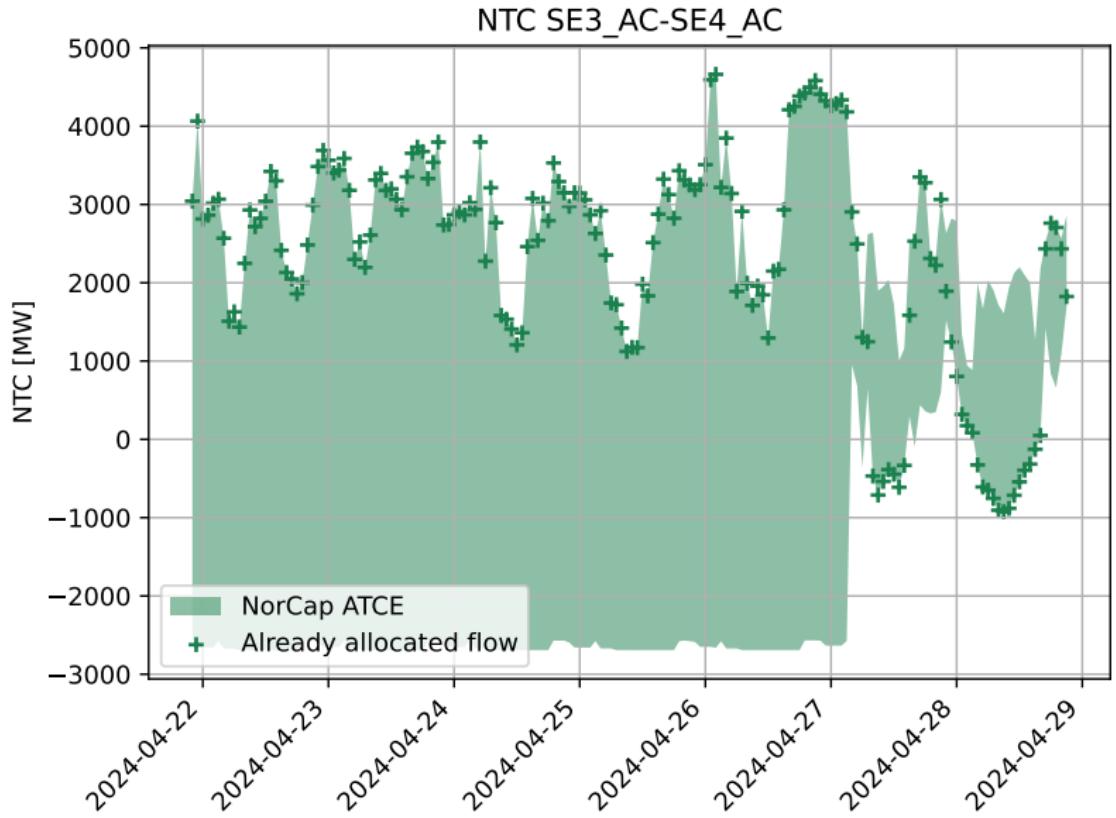
# SE3_AC-SE4_AC

# SE4_AC-SE3_AC
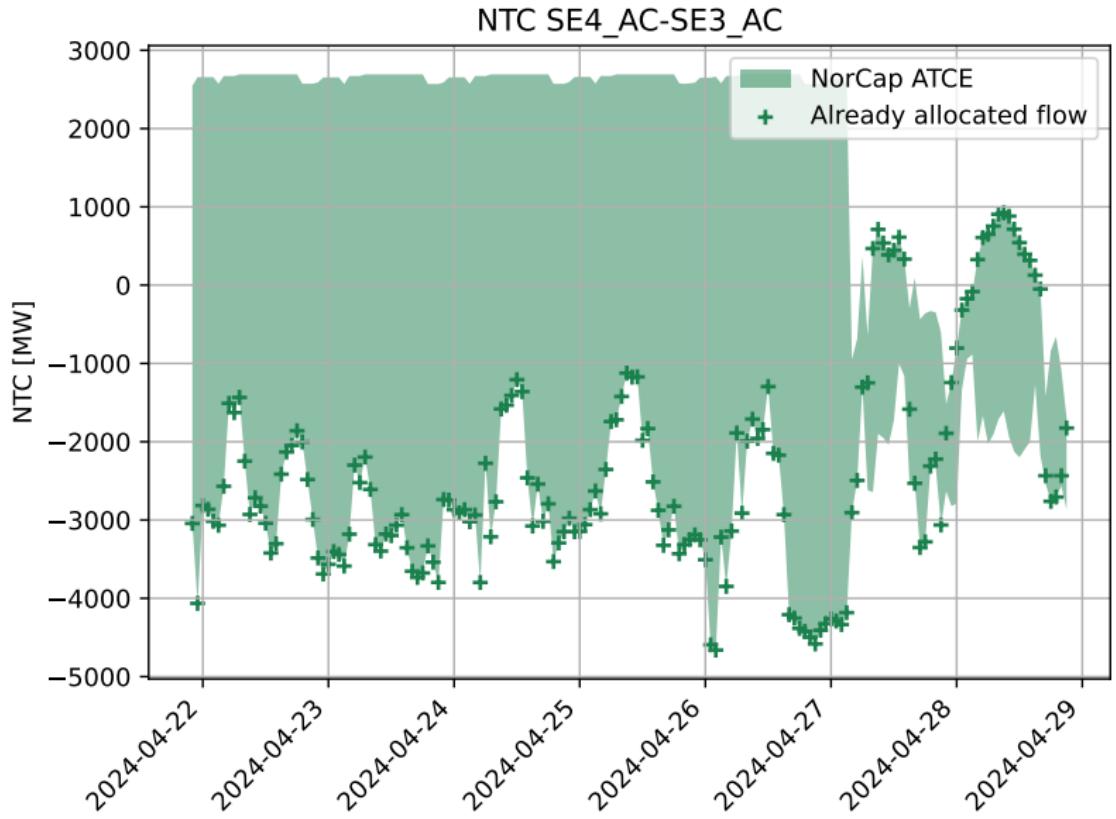
Bidding zone trading space

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 limimtations submitted by non-Nordic TSOs and ramping constraints for some HVDCs.

DK1 - Total trading space

ATC trading space BZ: DK1
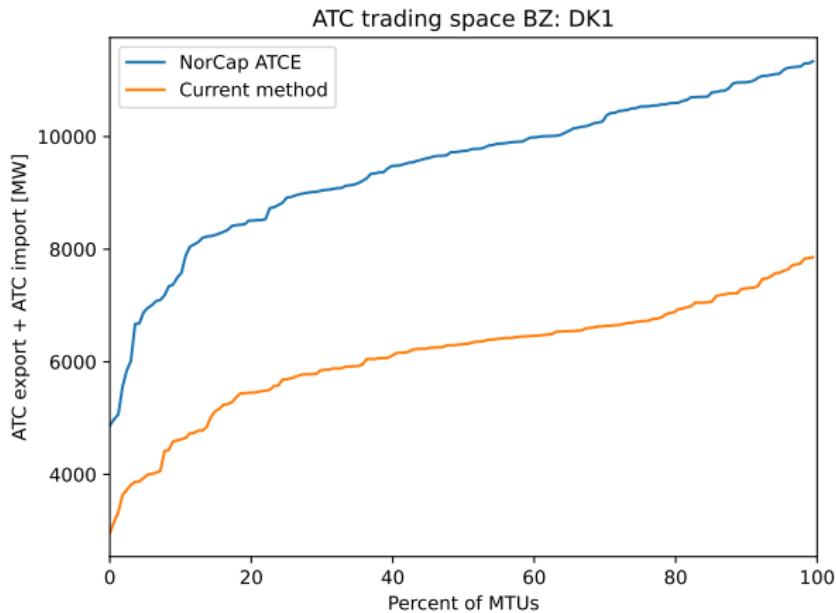
DK1 - Directional trading space
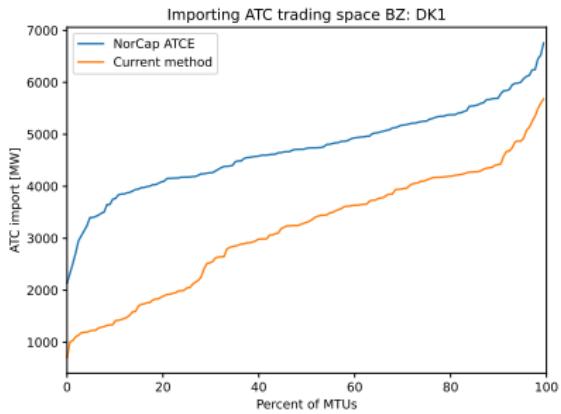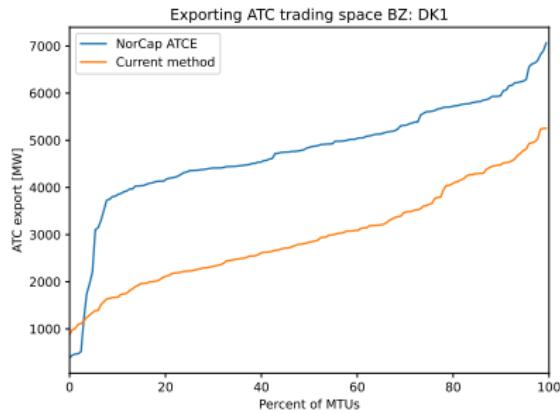
DK2 - Total trading space

ATC trading space BZ: DK2
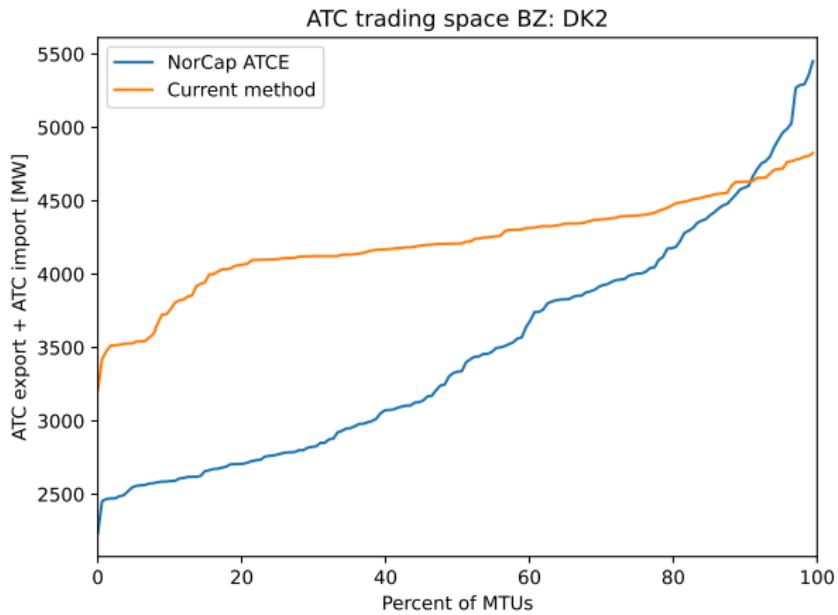
DK2 - Directional trading space
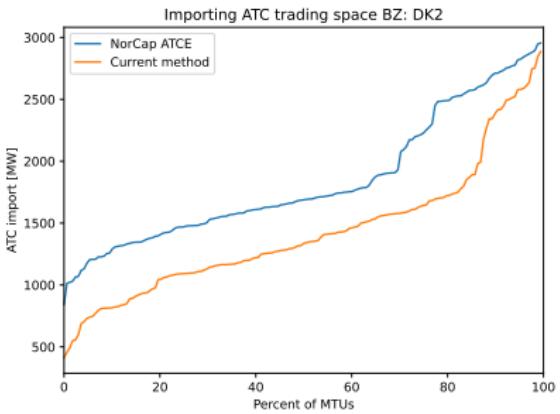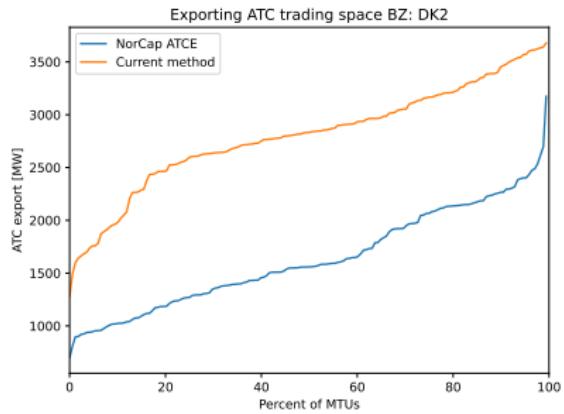
FI - Total trading space

ATC trading space BZ: FI
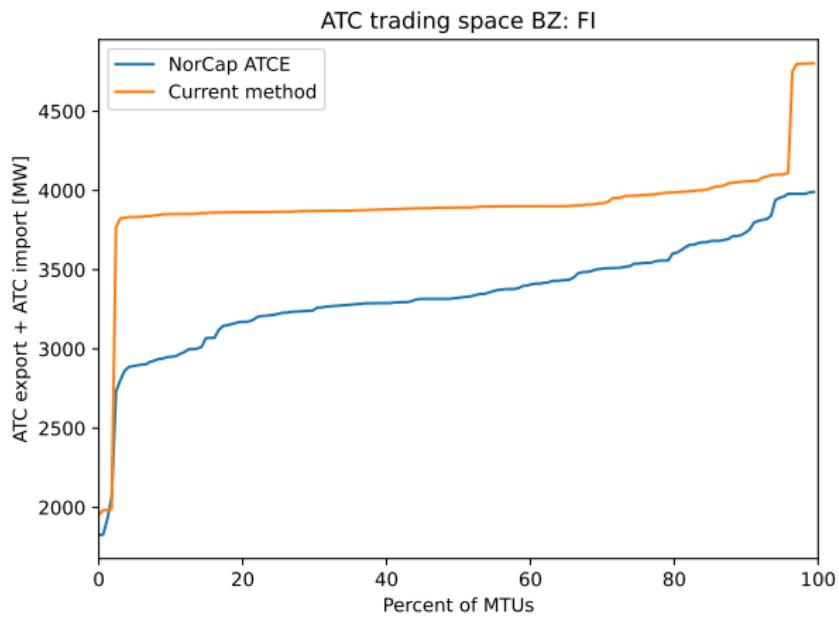
FI - Directional trading space
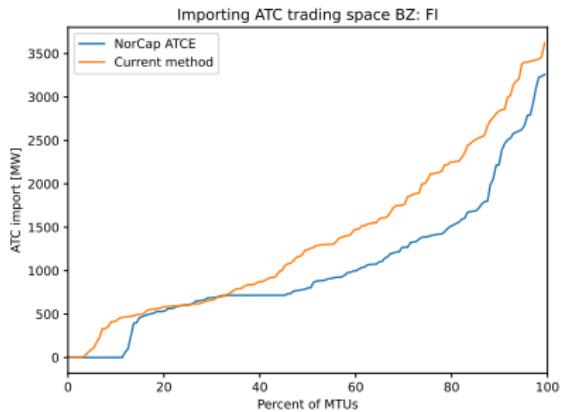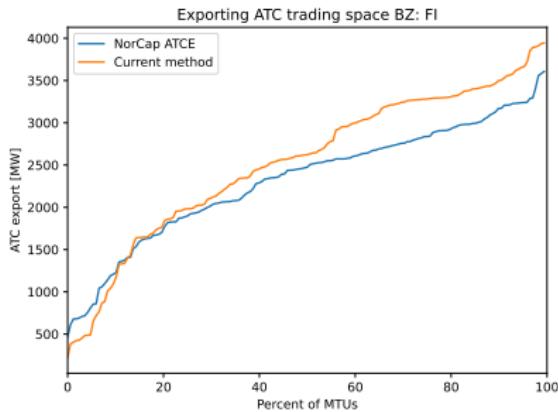
NO1 - Total trading space
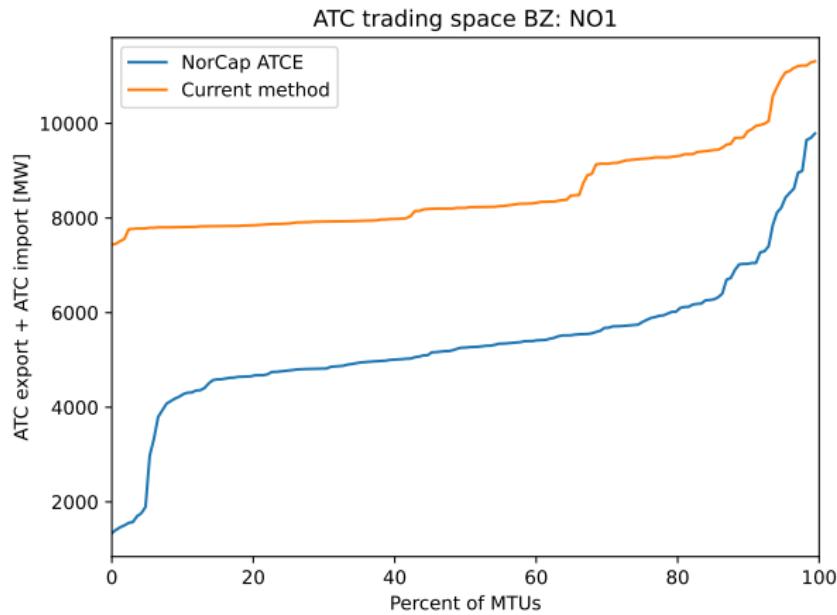
NO1 - Directional trading space
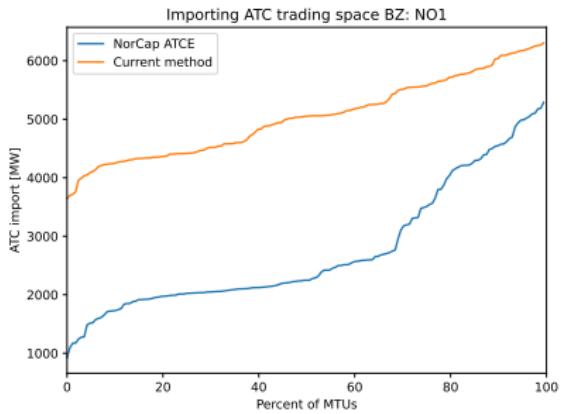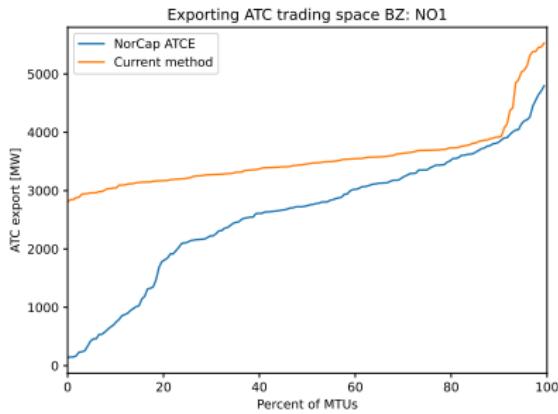
NO2 - Total trading space

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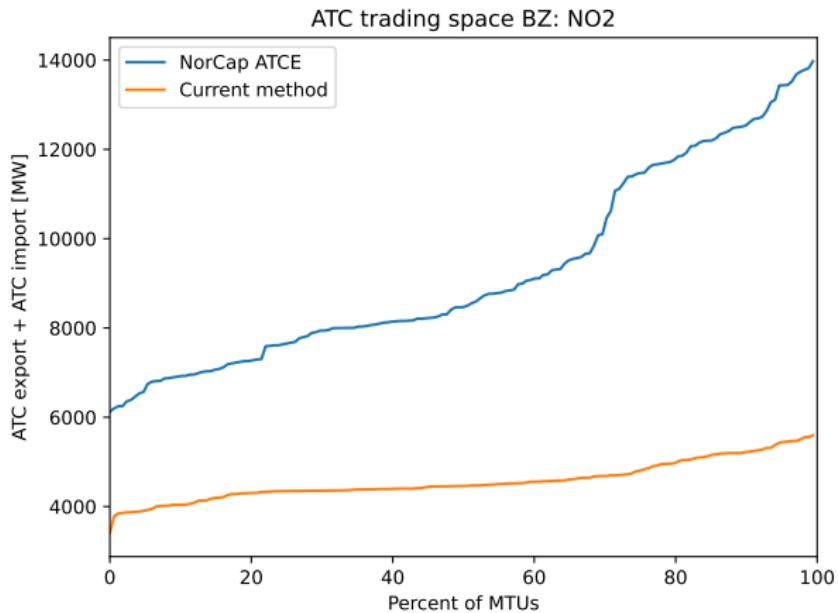
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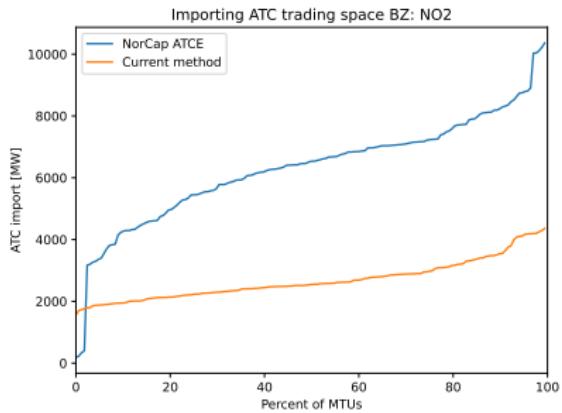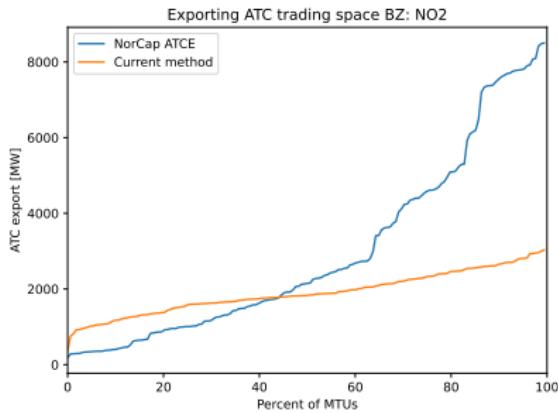
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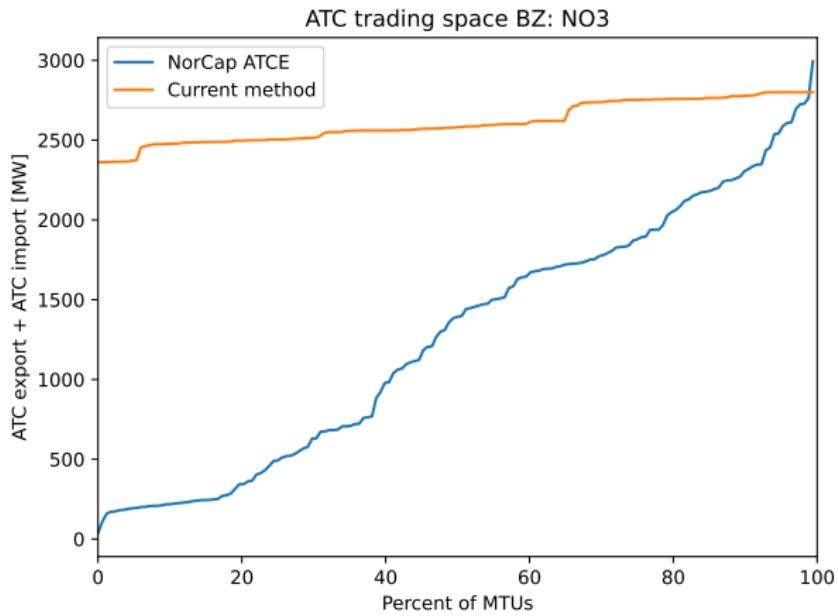
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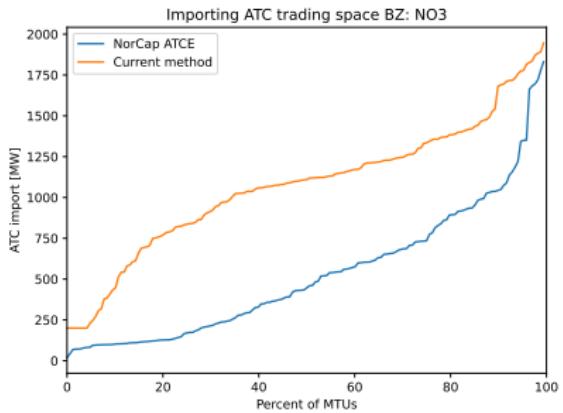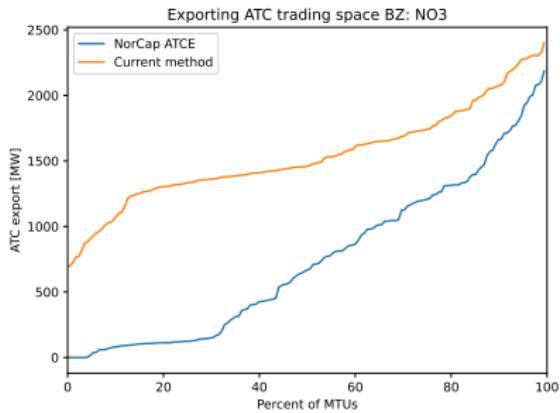
NO4 - Total trading space

ATC trading space BZ: NO4
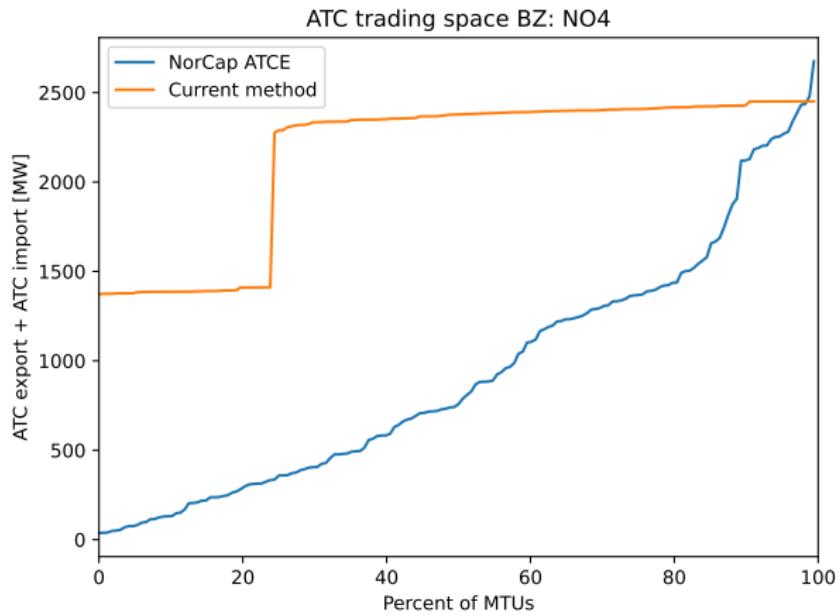
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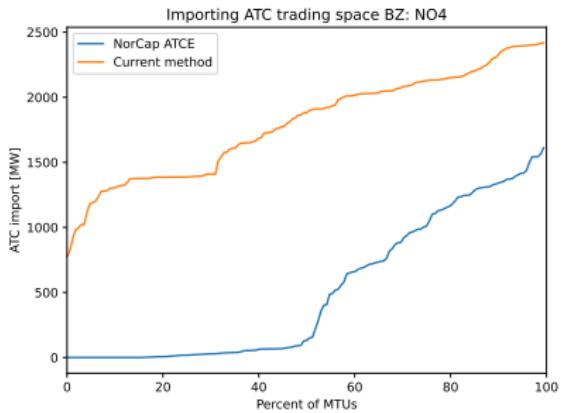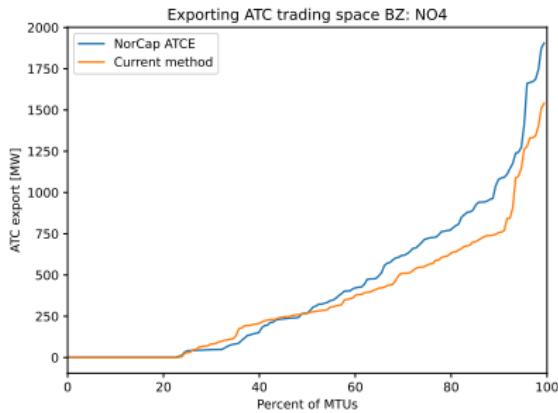
NO5 - Total trading space

ATC trading space BZ: NO5
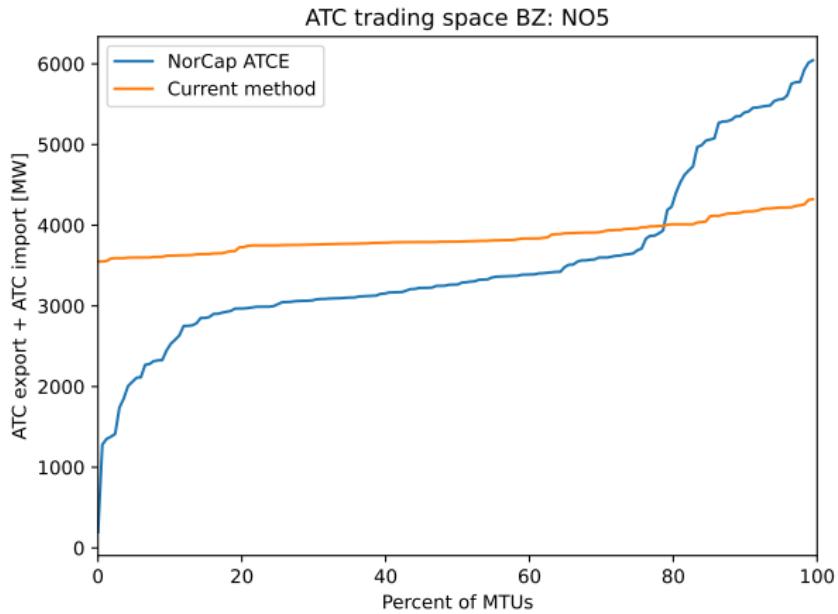
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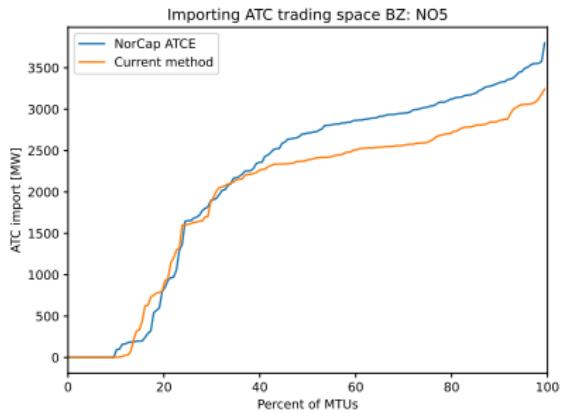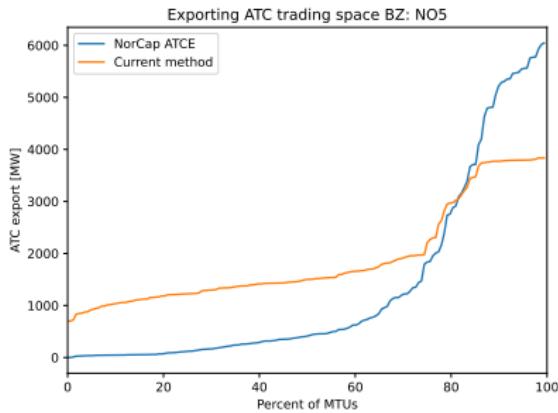
SE1 - Total trading space

ATC trading space BZ: SE1
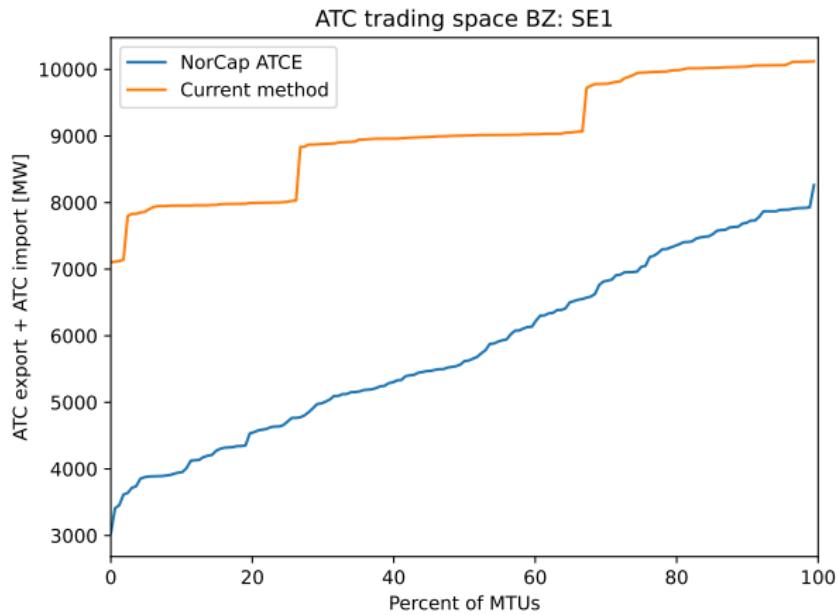
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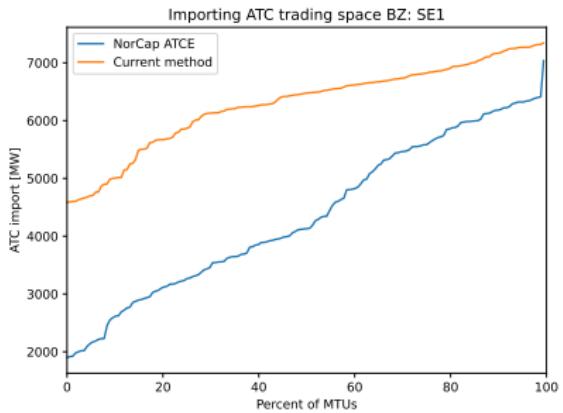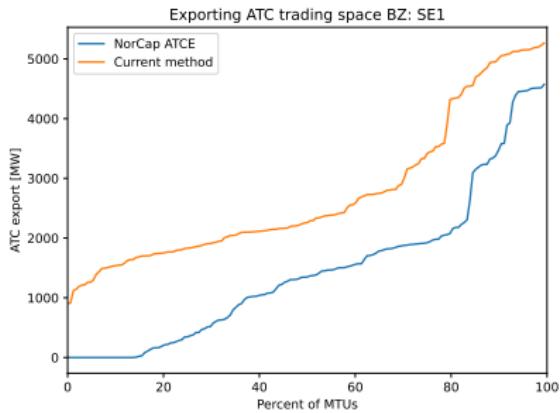
SE2 - Total trading space

ATC trading space BZ: SE2
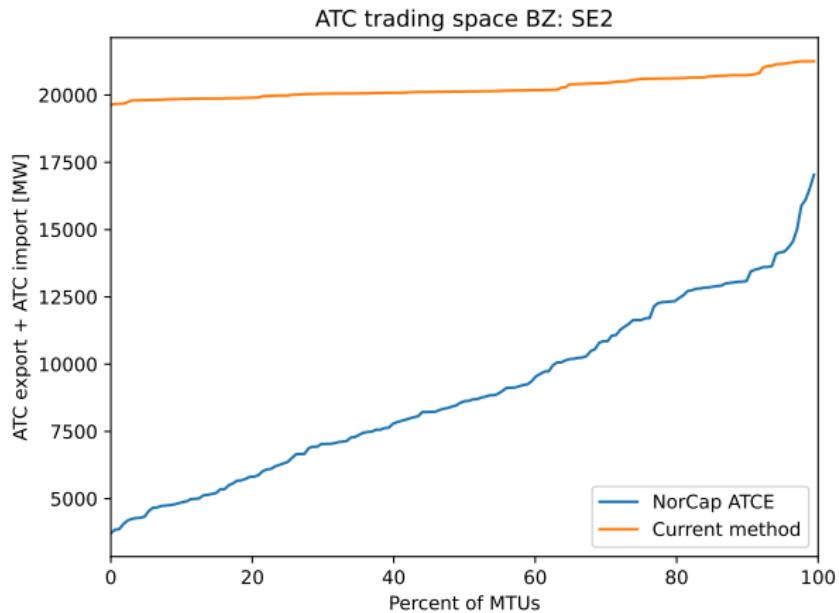
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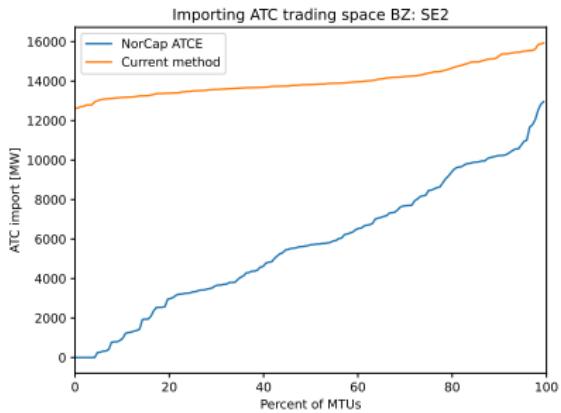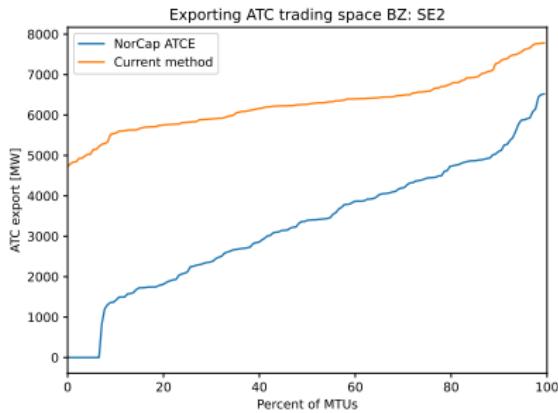
SE3 - Total trading space

ATC trading space BZ: SE3
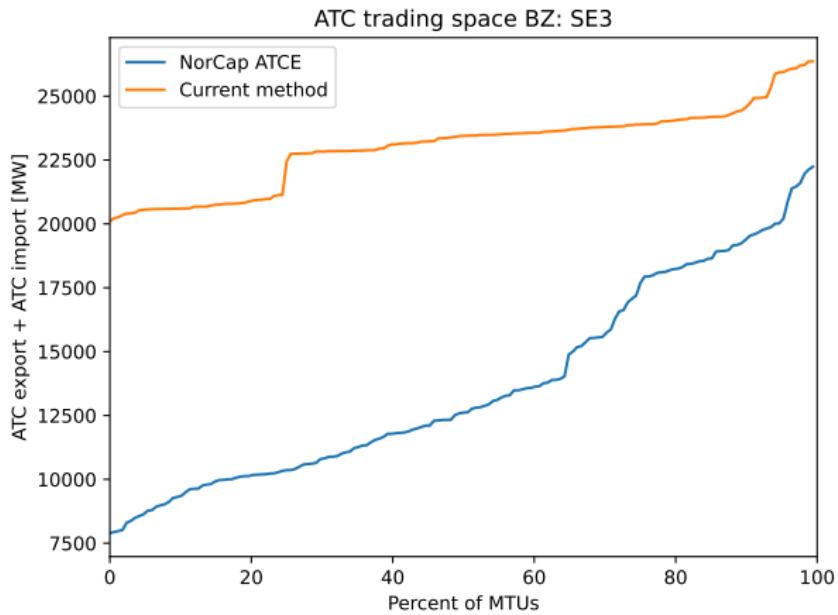
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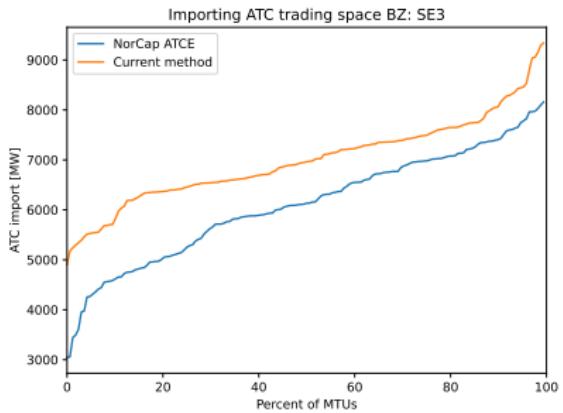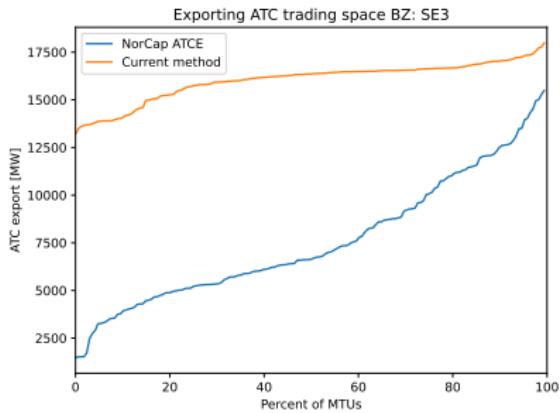
# SE4 - Total trading space

ATC trading space BZ: SE4
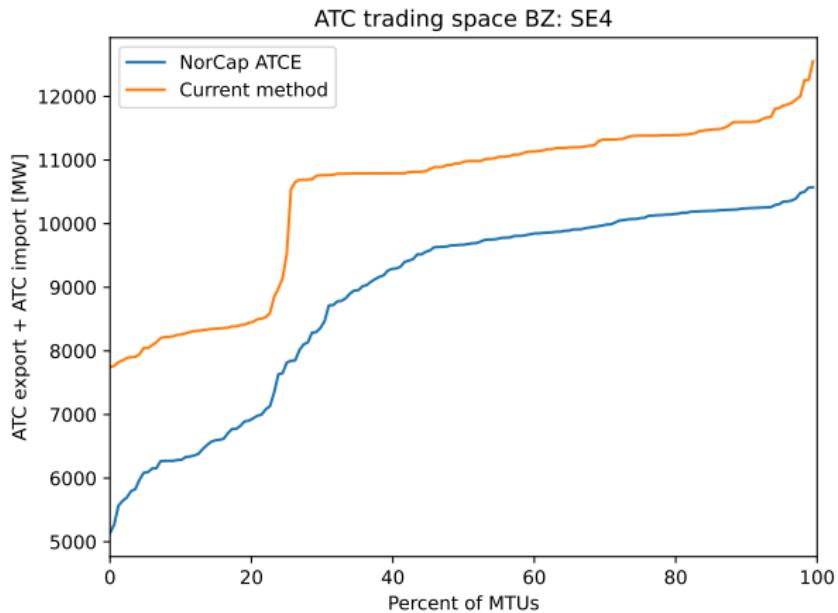
SE4 - Directional trading space
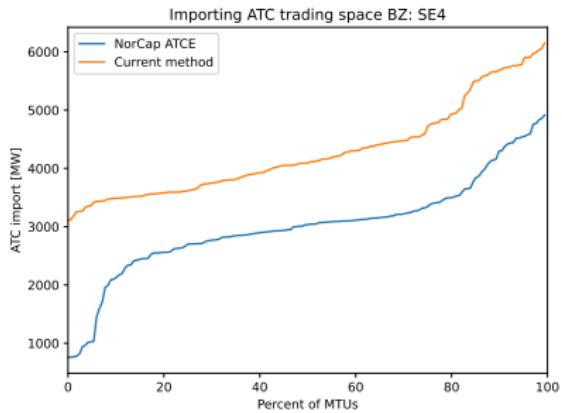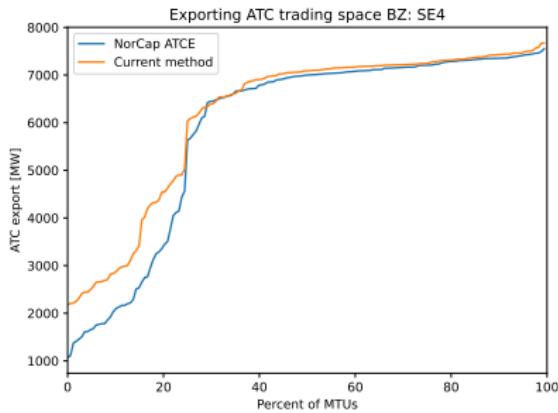
Capacity duration curves

DE_LU-DK1 ATC duration curves
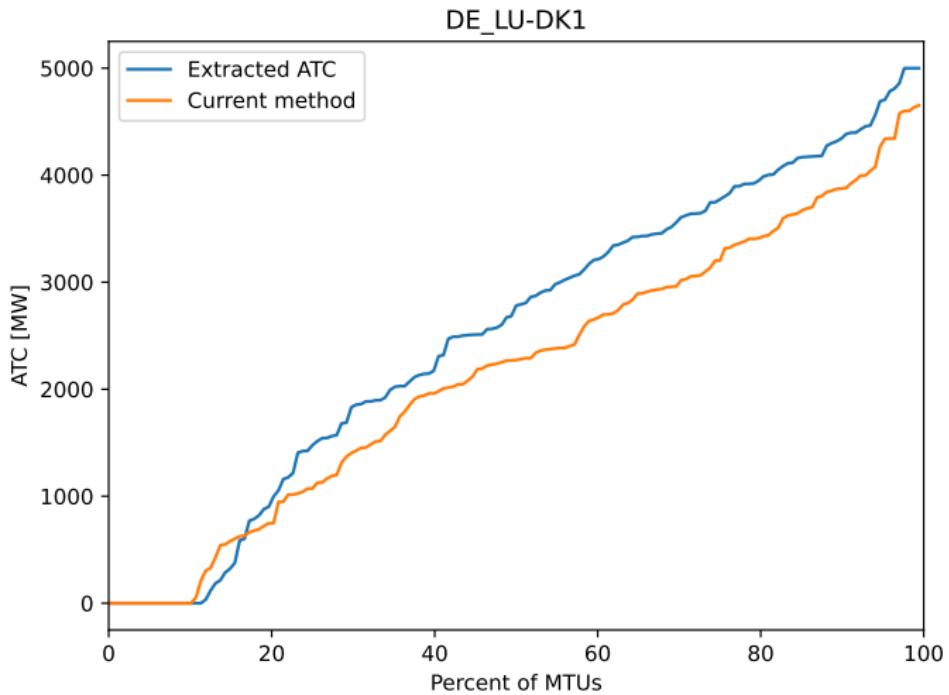
DE_LU-DK1

DK1-DE_LU ATC duration curves
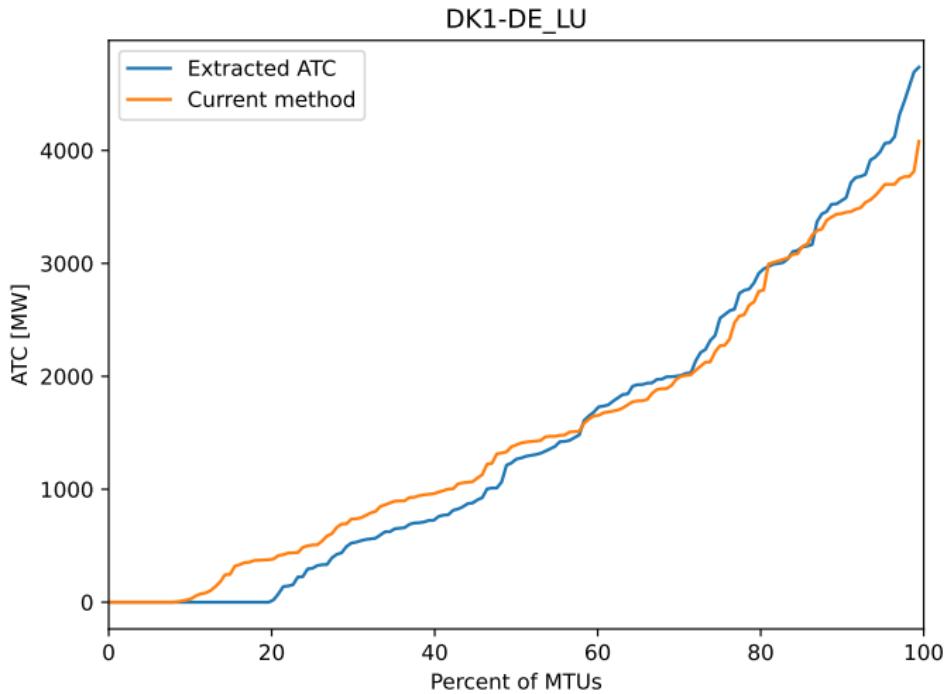
DE_LU-DK2 ATC duration curves

DE_LU-DK2
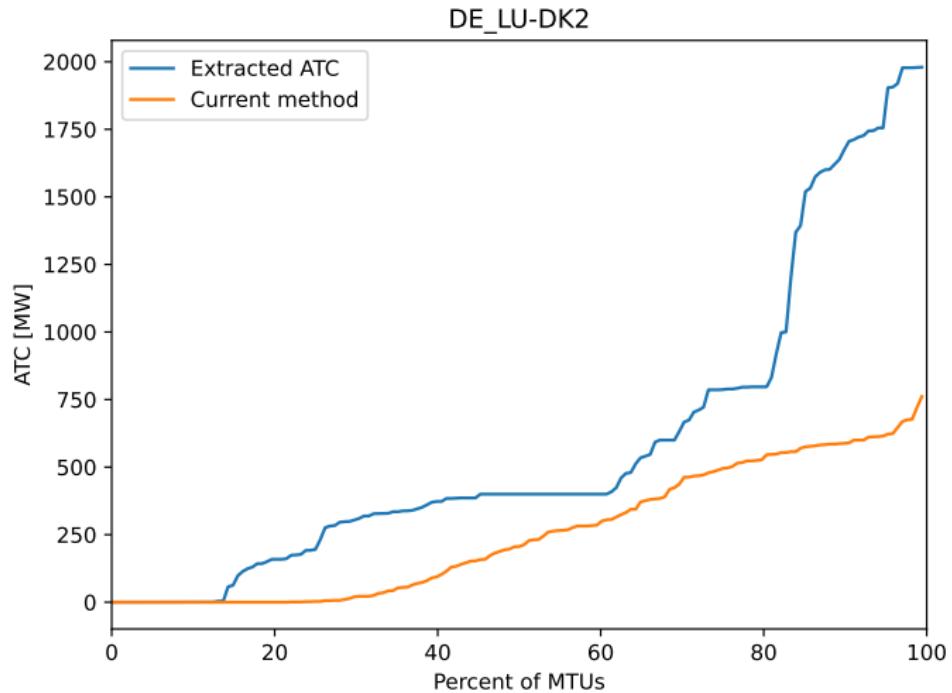
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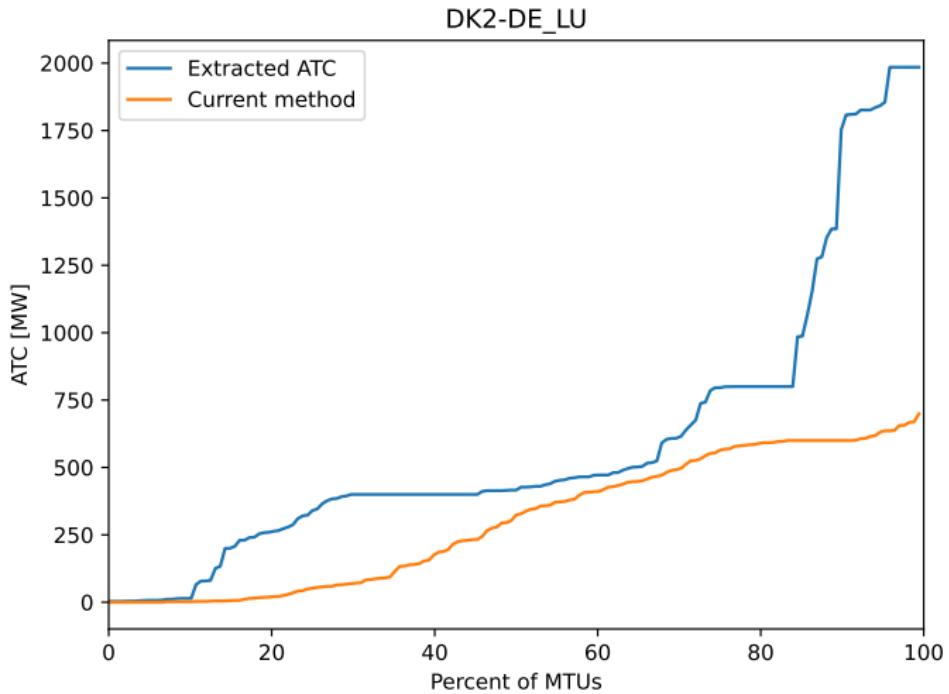
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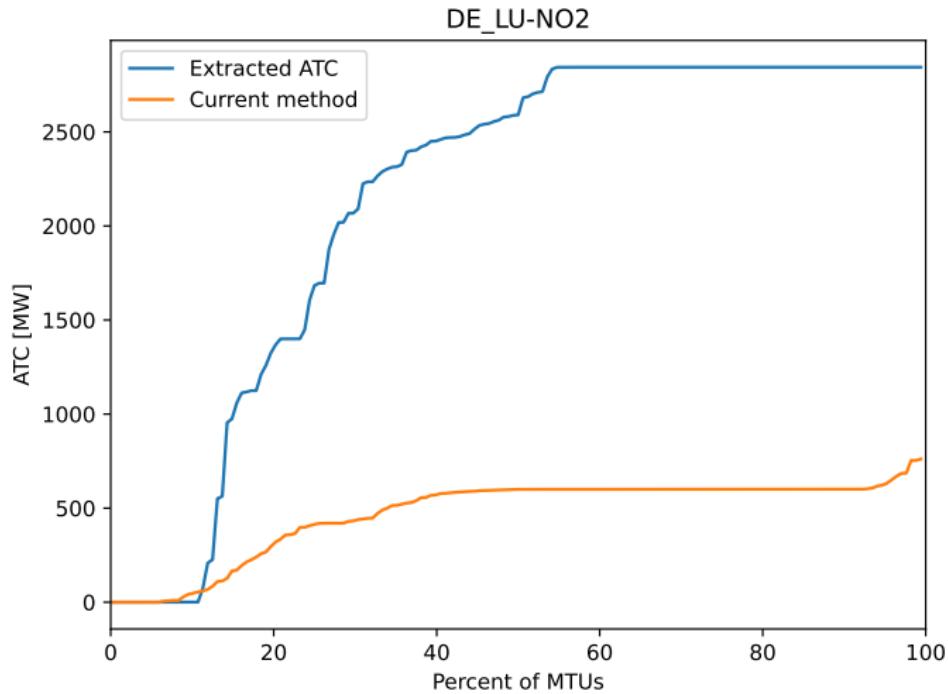
NO2-DE_LU ATC duration curves


NO2-DE_LU
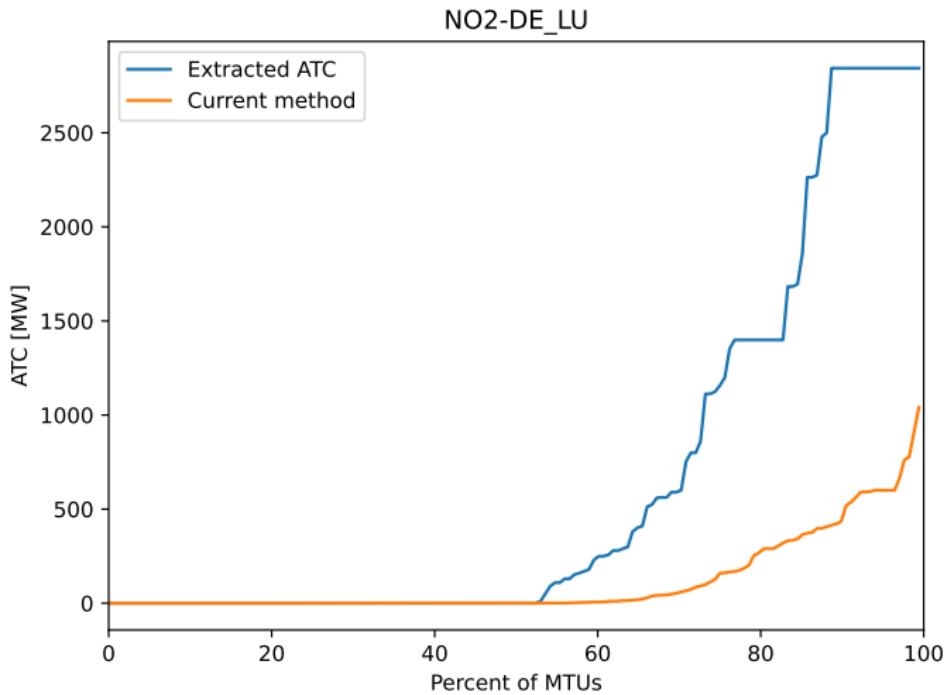
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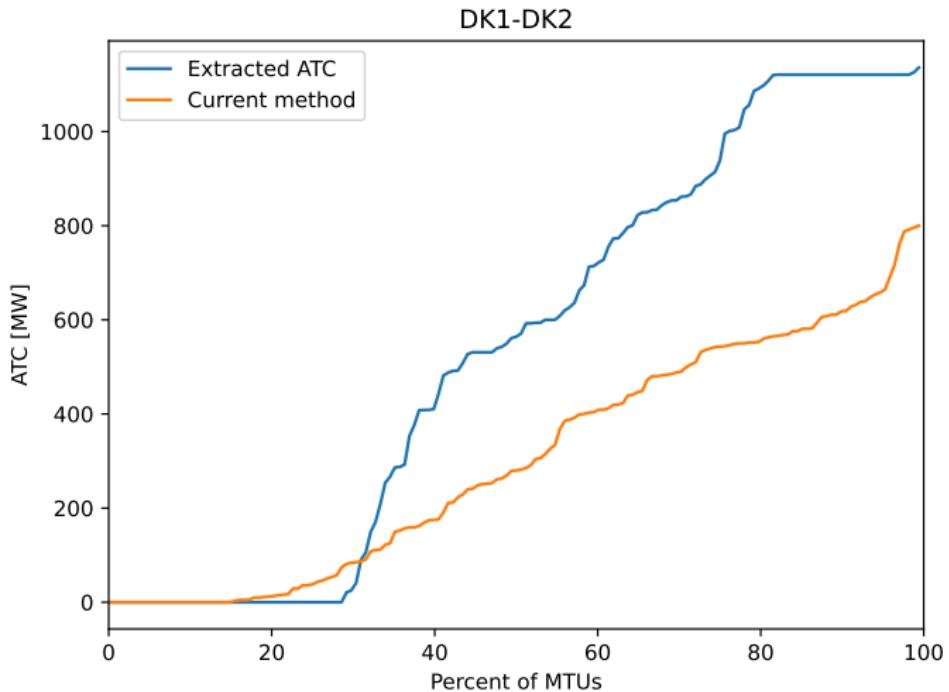
DK2-DK1 ATC duration curves


DK2-DK1
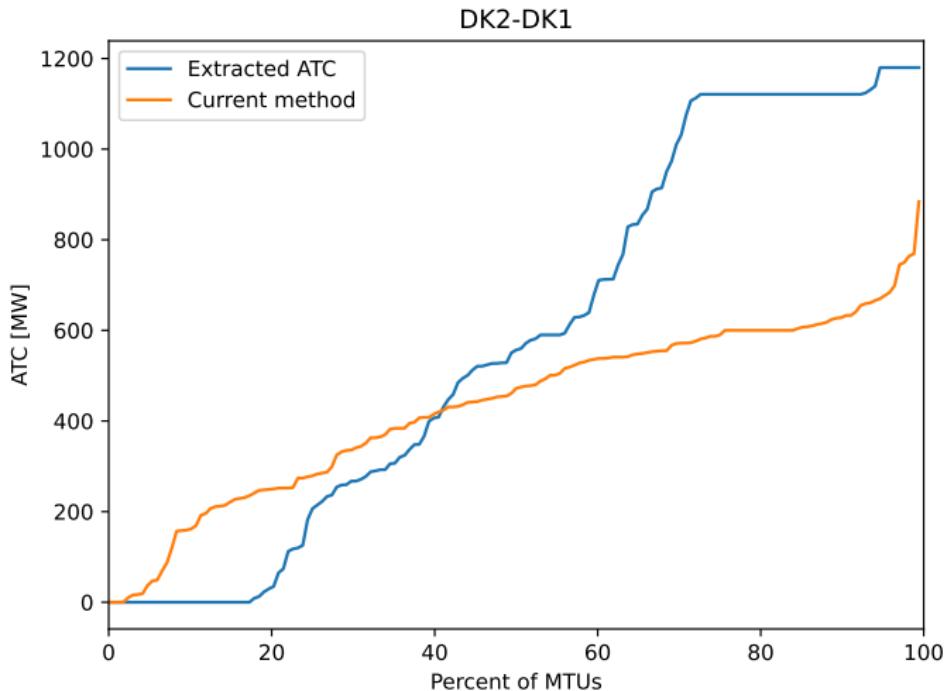
DK1-NL ATC duration curves
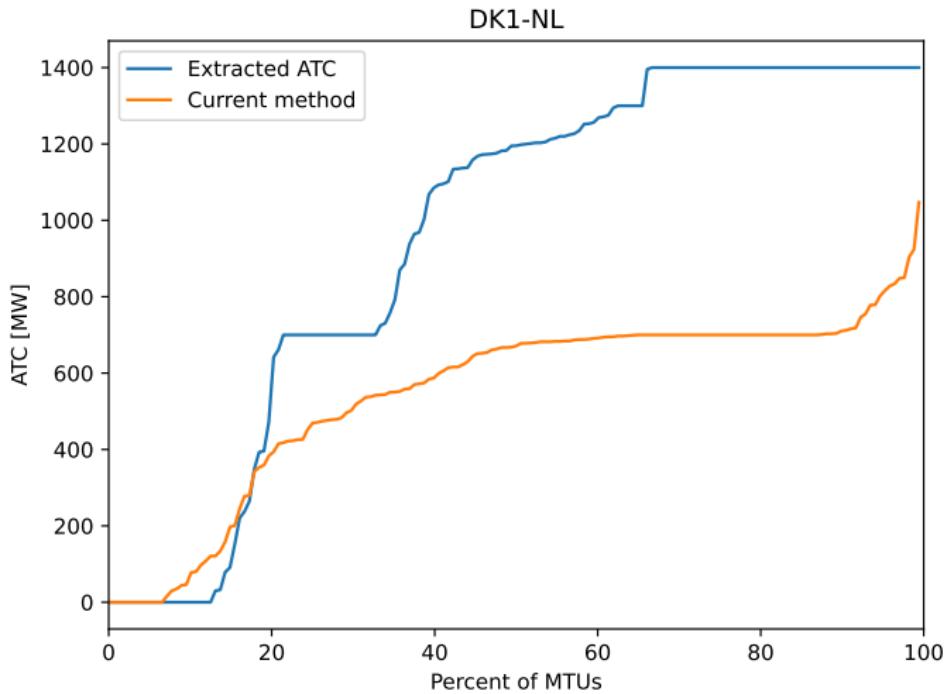
NL-DK1 ATC duration curves
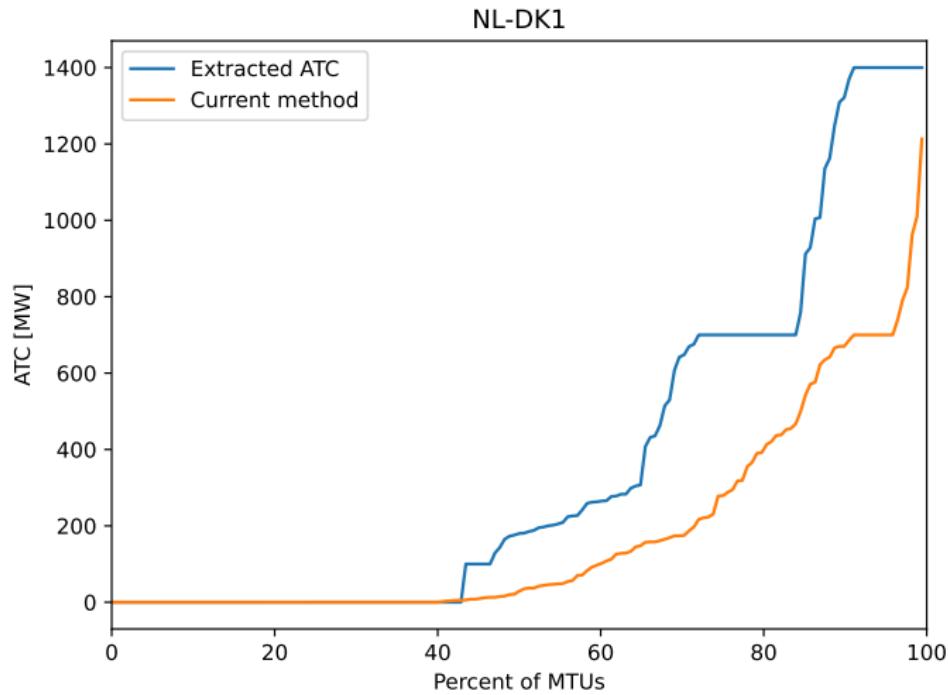
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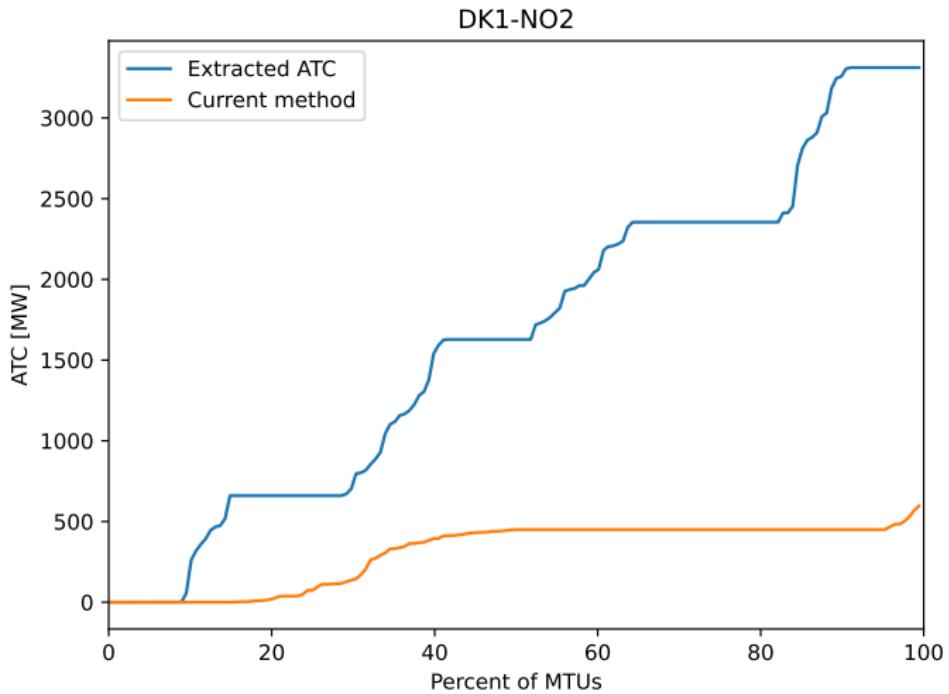
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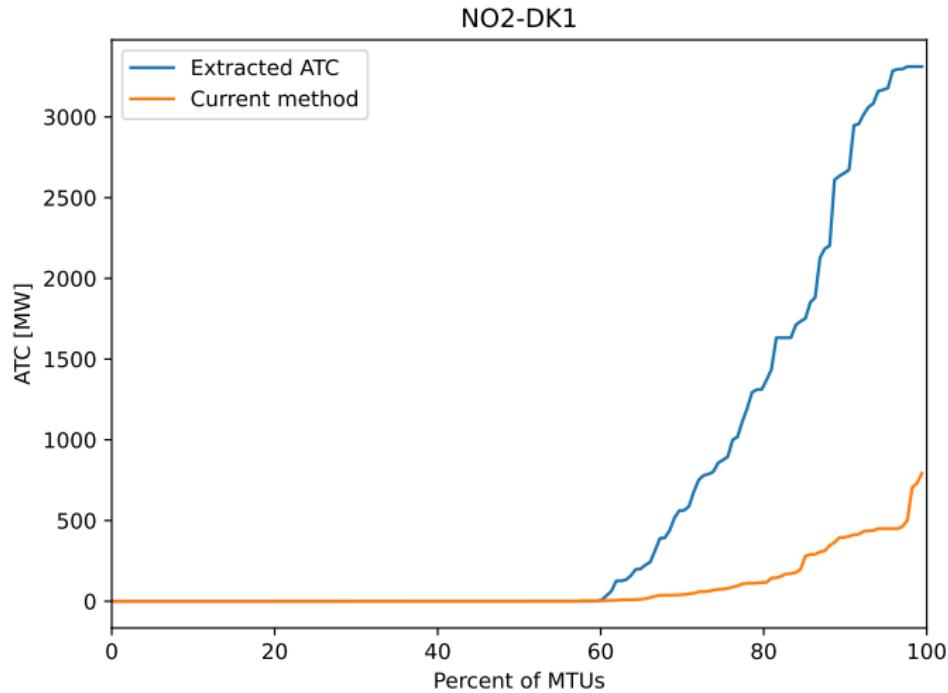
DK1-SE3 ATC duration curves
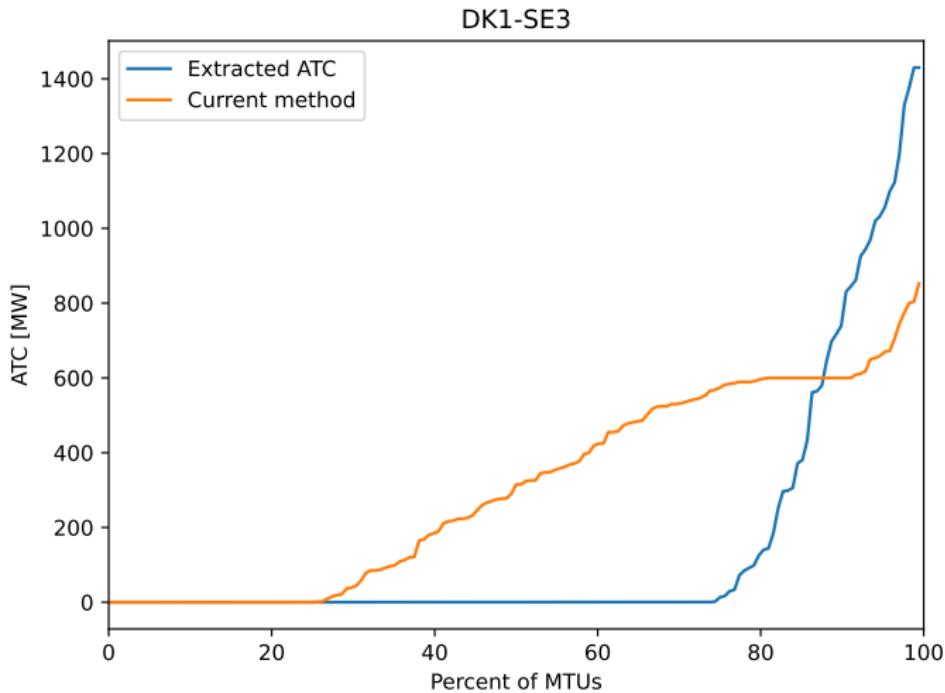
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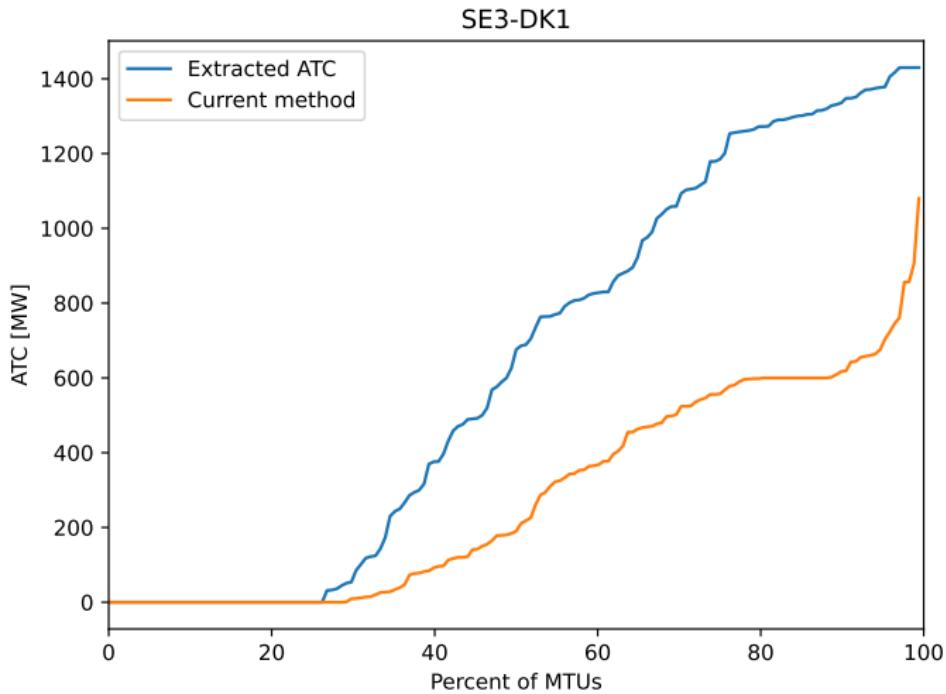
DK2-SE4 ATC duration curves
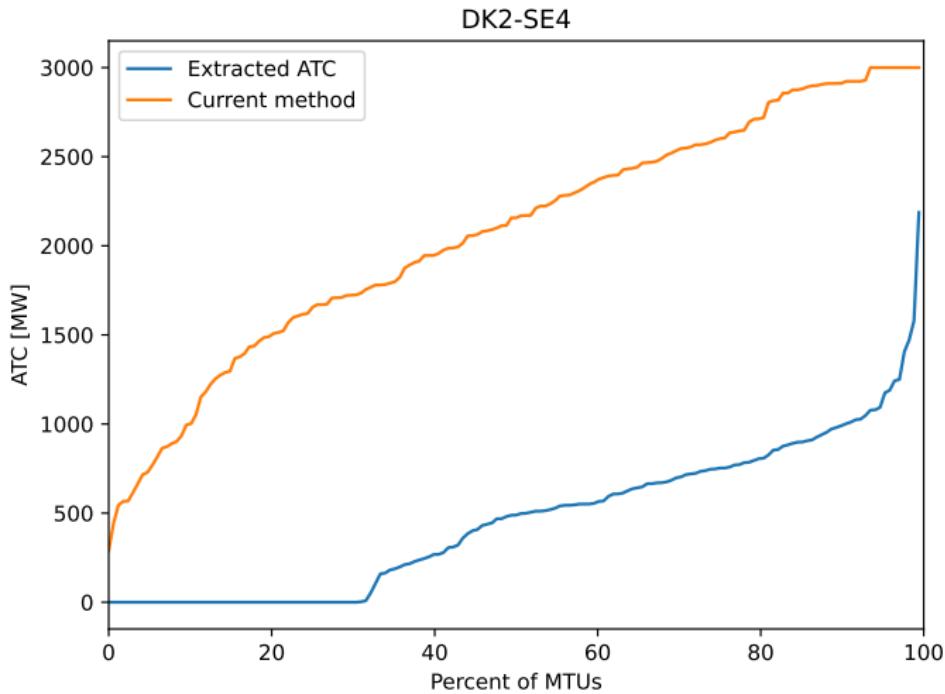
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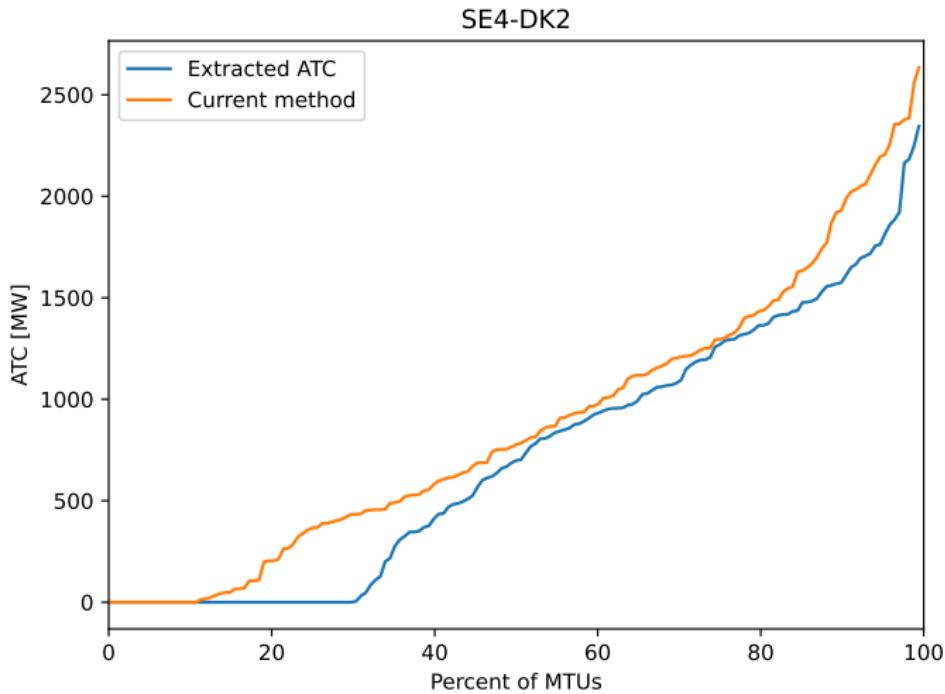
EE-FI ATC duration curves
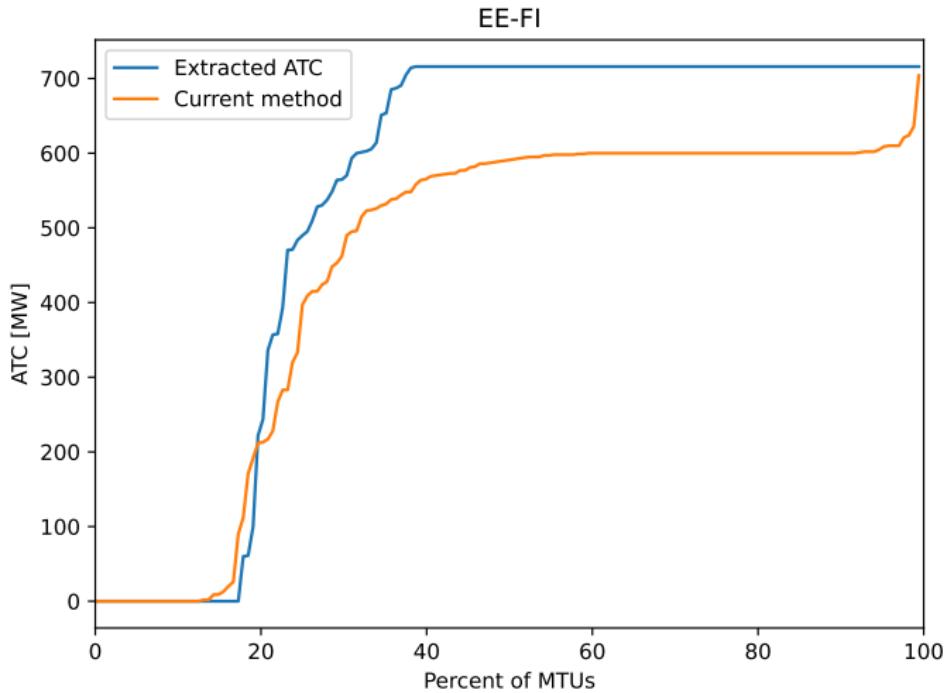
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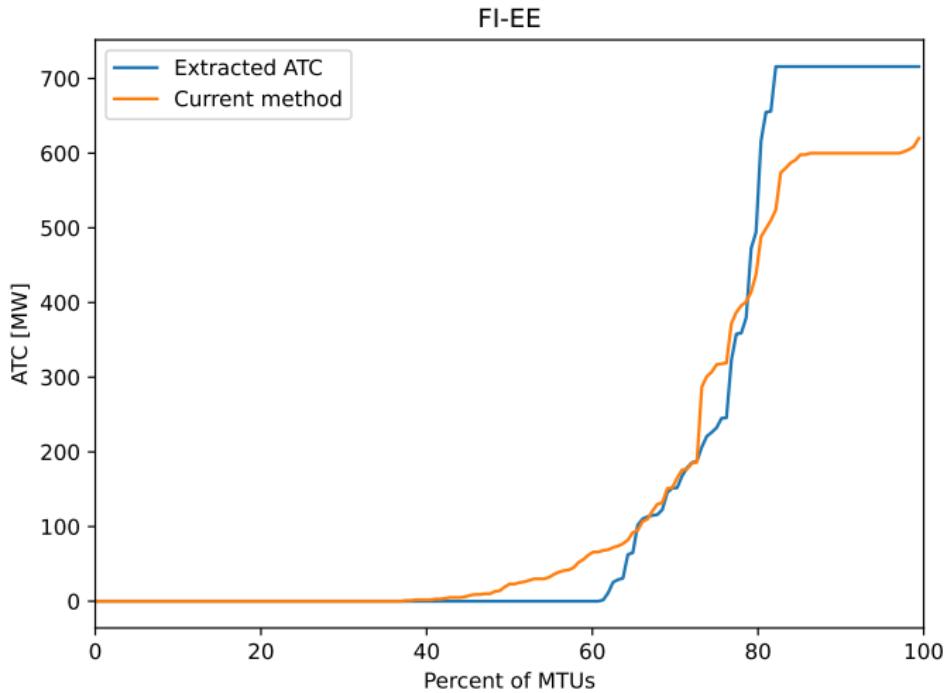
FI-SE1 ATC duration curves

FI-SE1
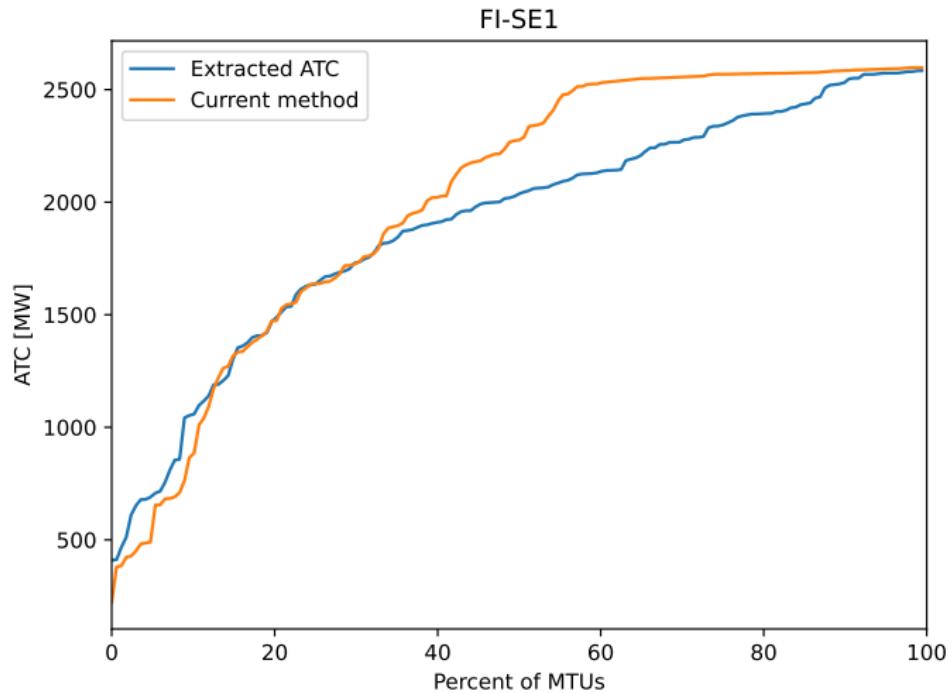
# SE1-FI ATC duration curves

SE1-FI
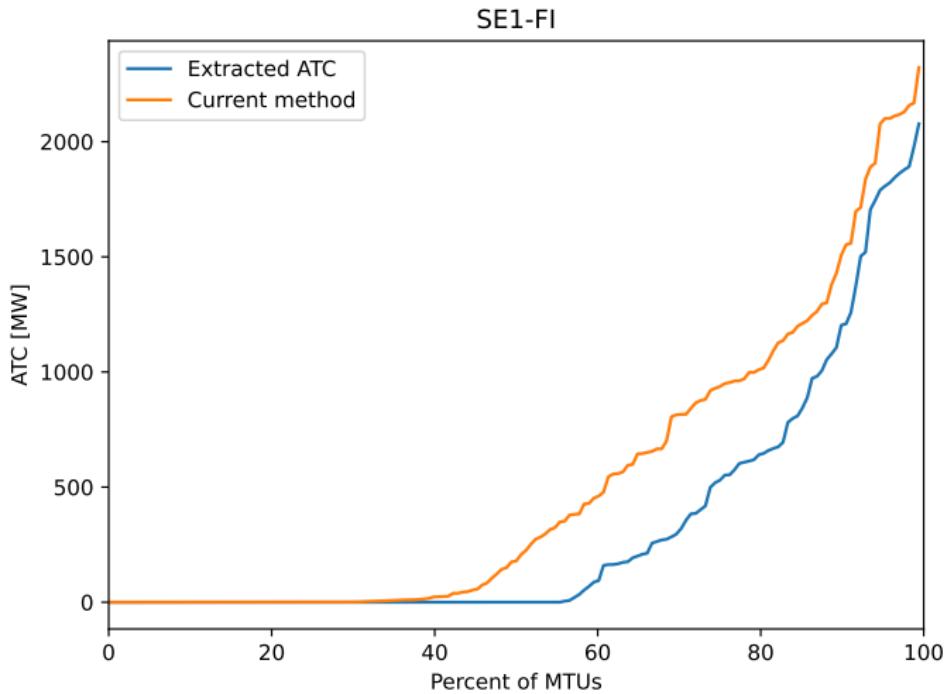
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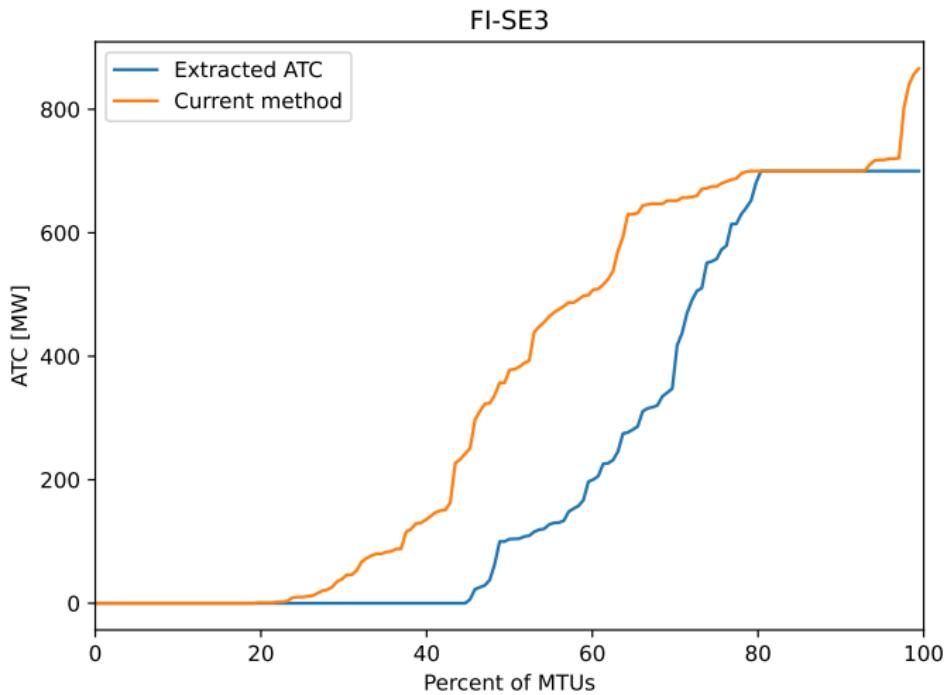
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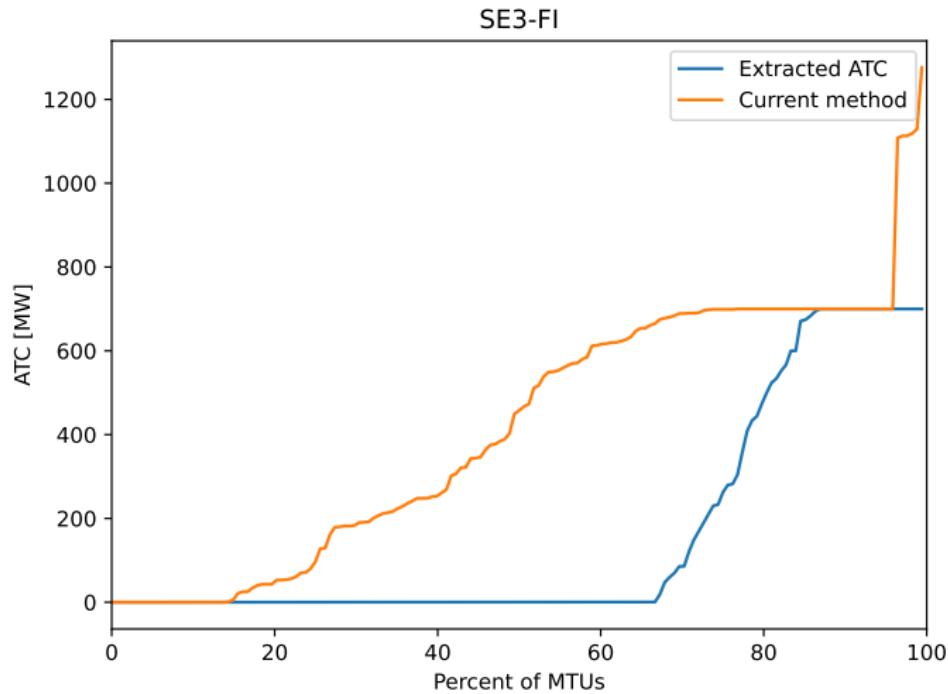
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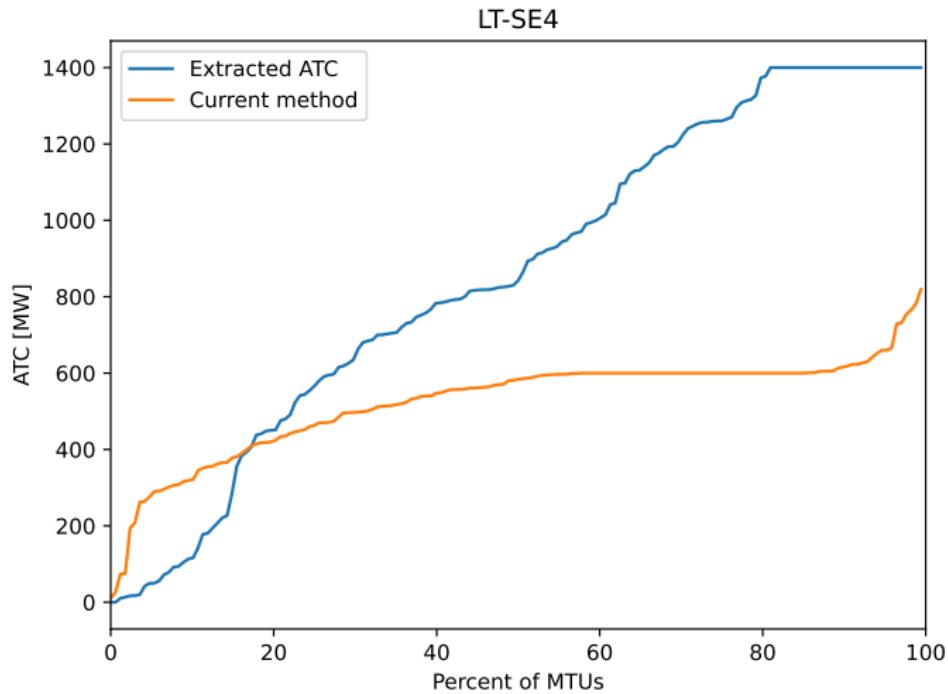
SE4-LT ATC duration curves
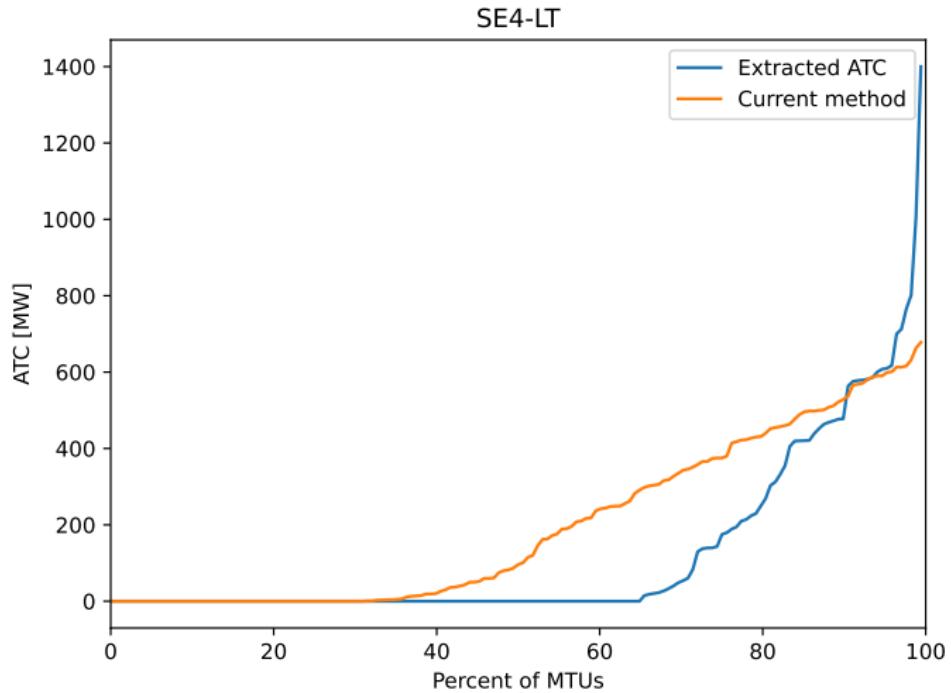
NL-NO2 ATC duration curves
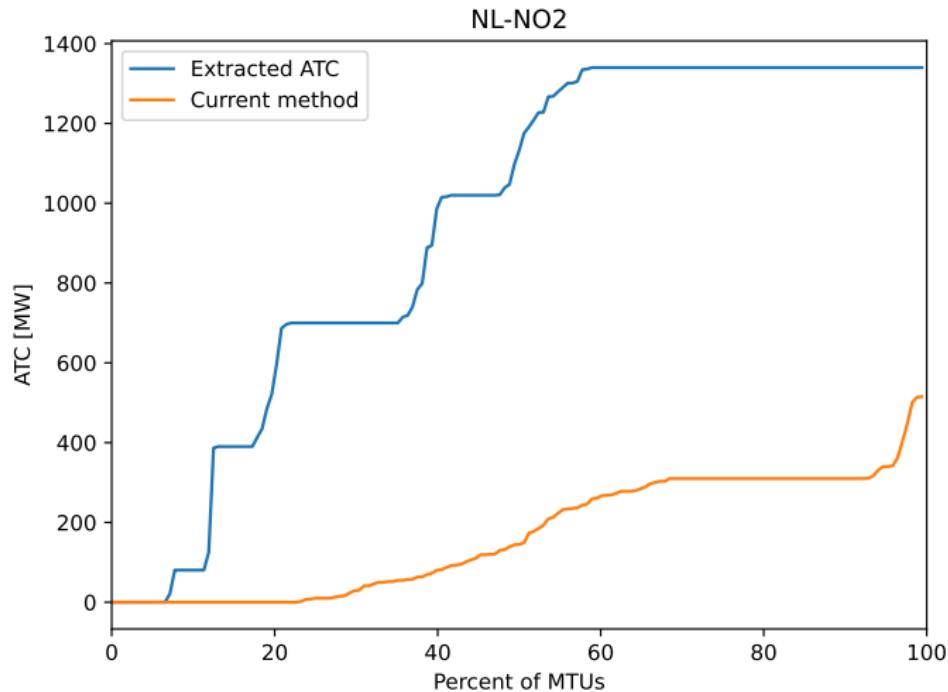
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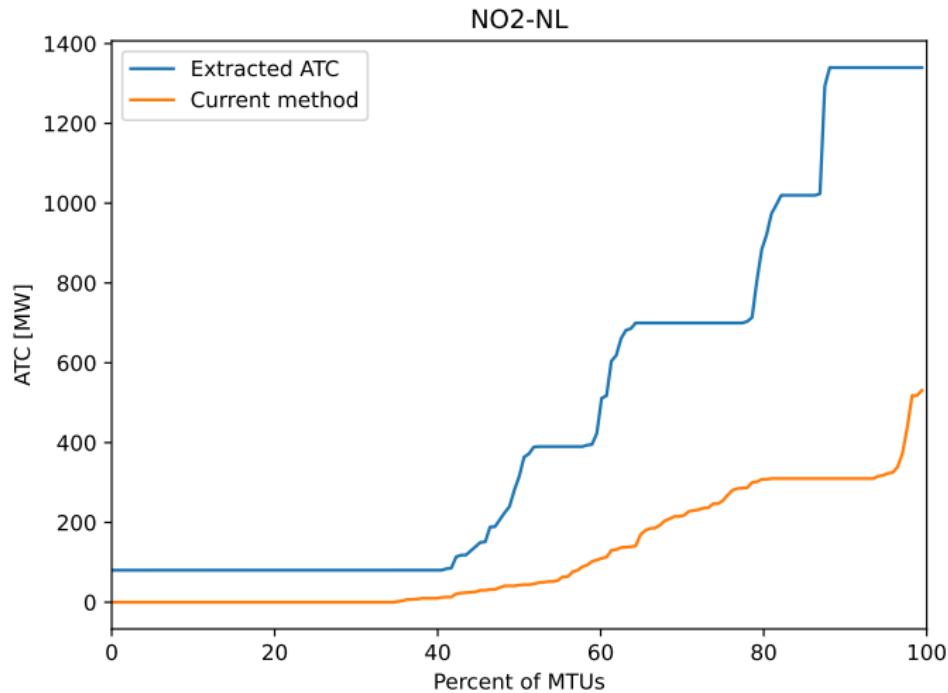
NO1-NO2 ATC duration curves
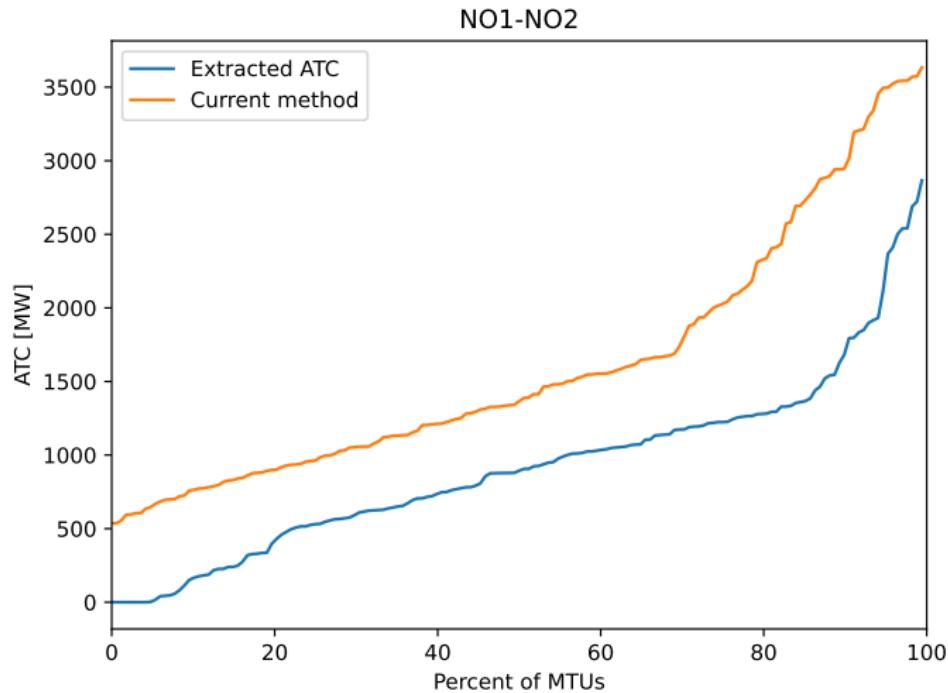
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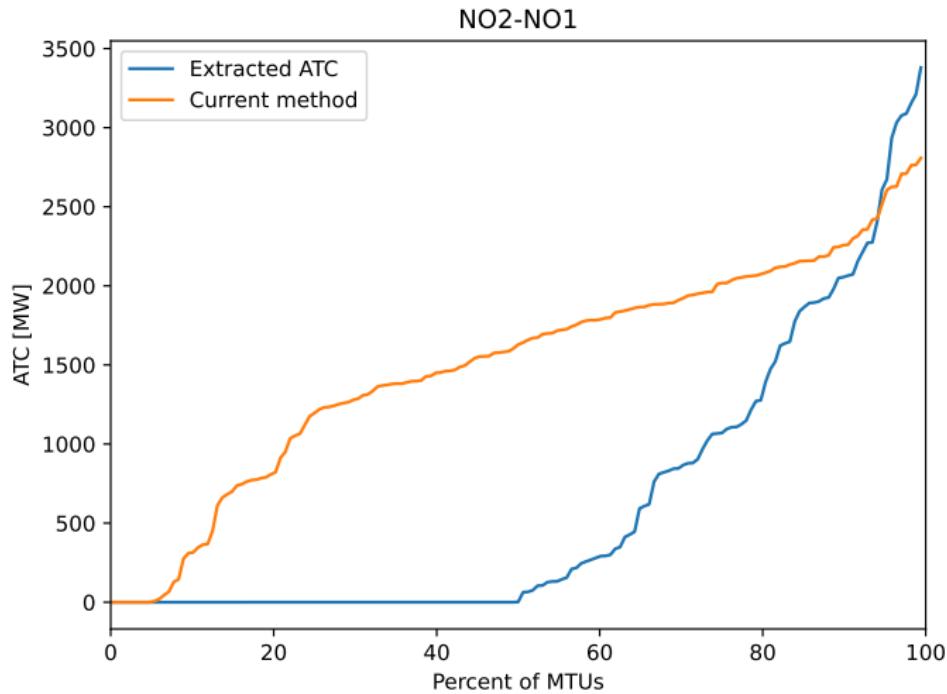
NO2-NO1

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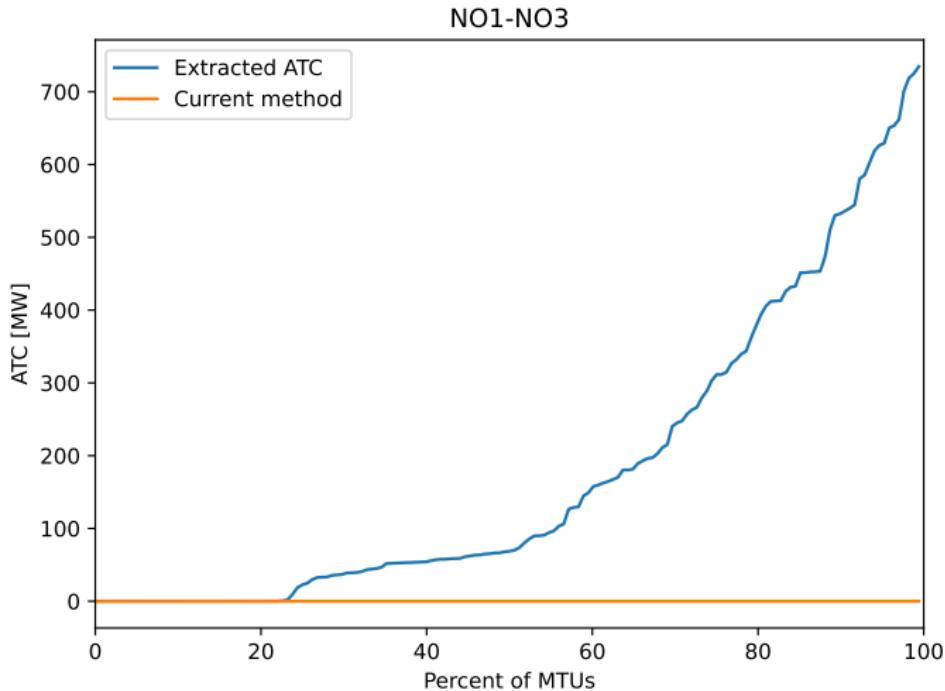
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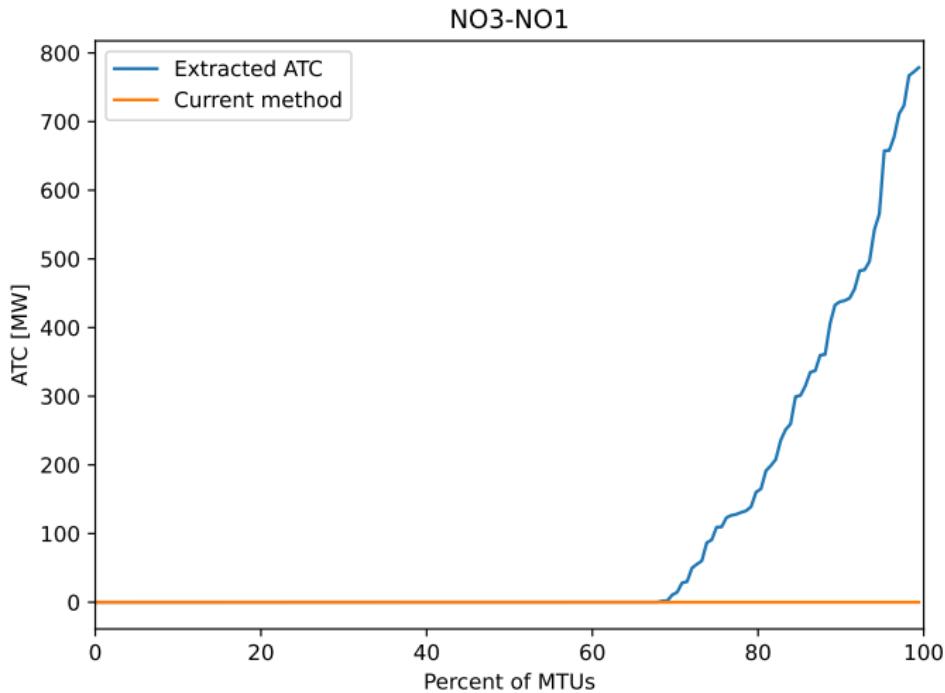

NO3-NO1

# NO1-NO5 ATC duration curves
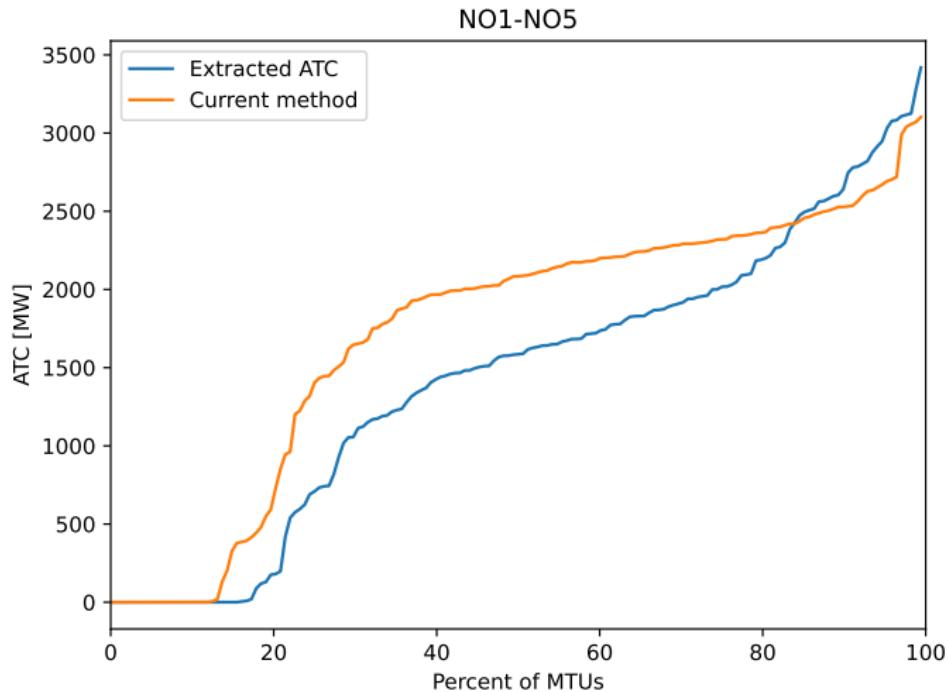
NO5-NO1 ATC duration curves
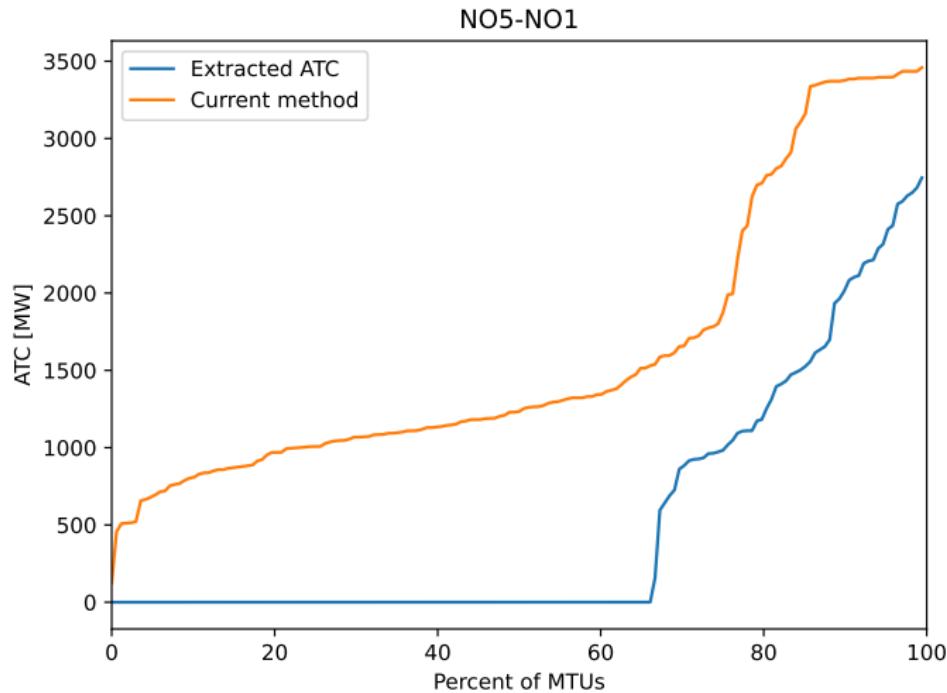
NO5-NO1

NO1-SE3 ATC duration curves
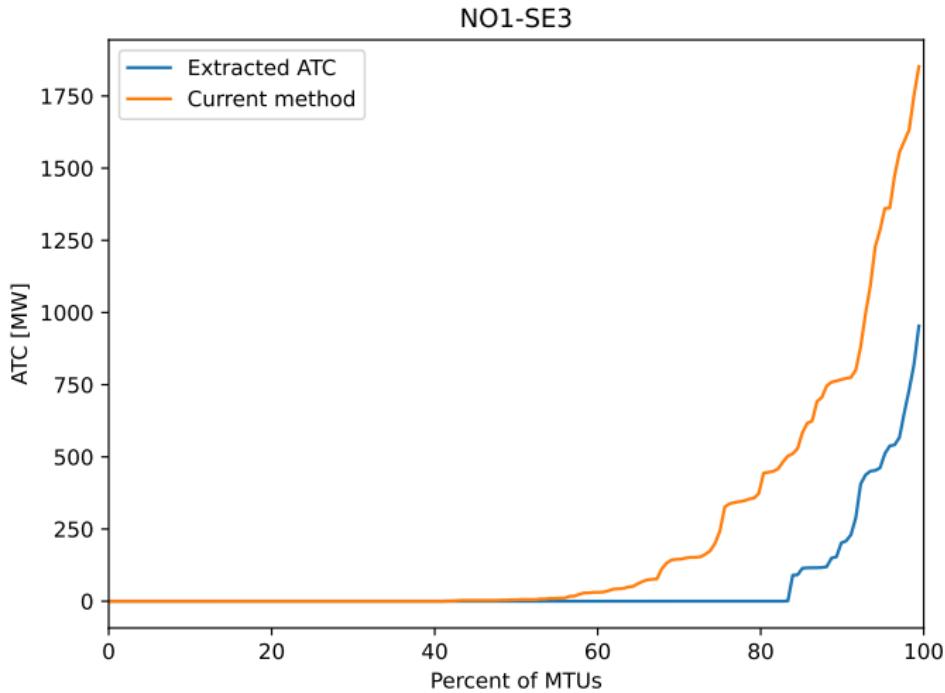
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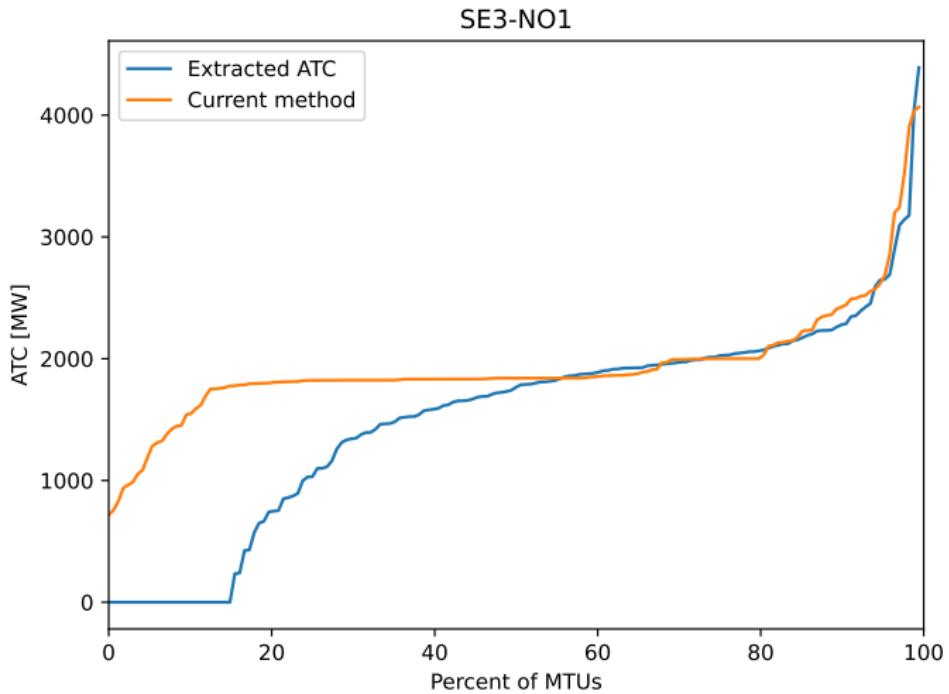
NO2A-NO2 ATC duration curves

NO2A-NO2
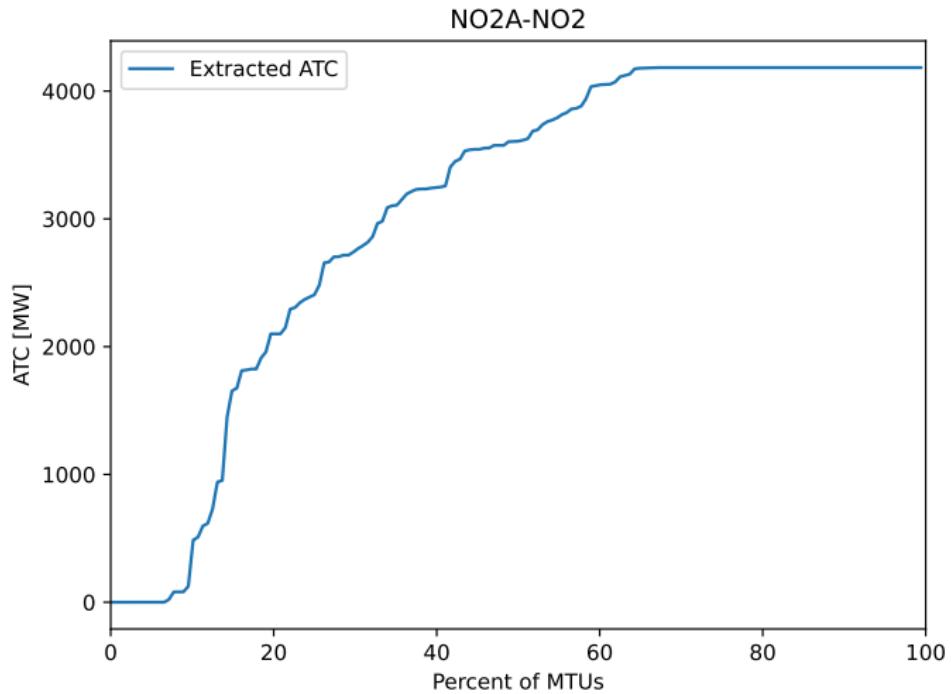
NO2-NO2A ATC duration curves
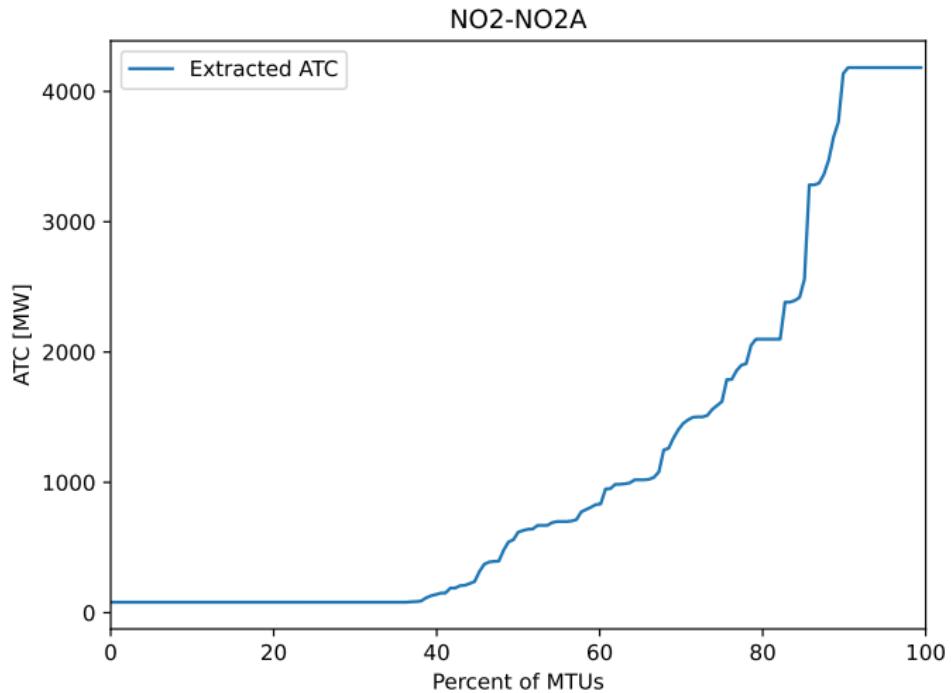
NO2-NO2A

# NO2-NO5 ATC duration curves

NO2-NO5
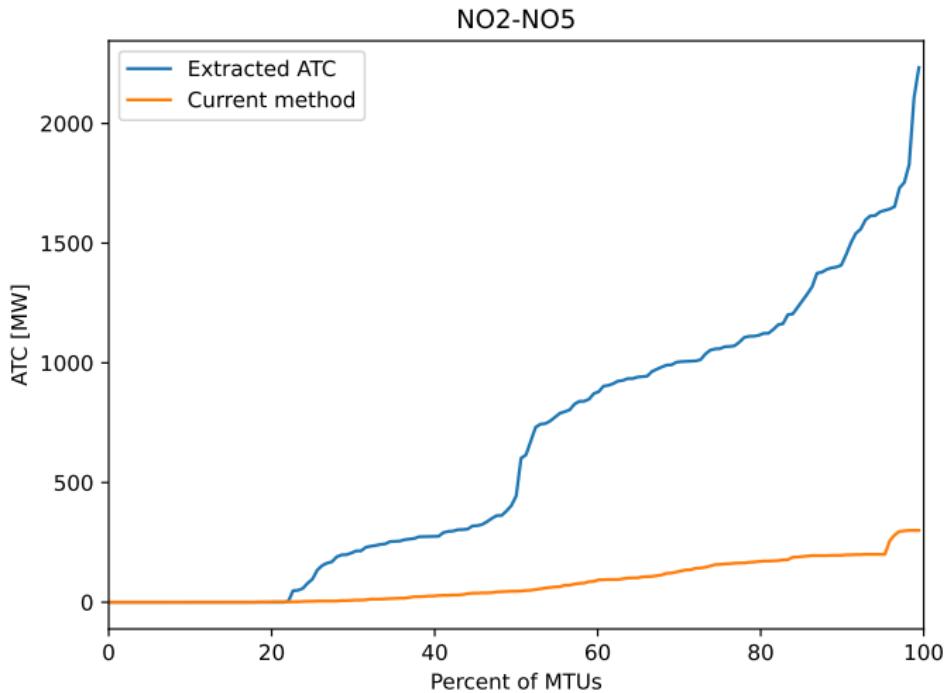
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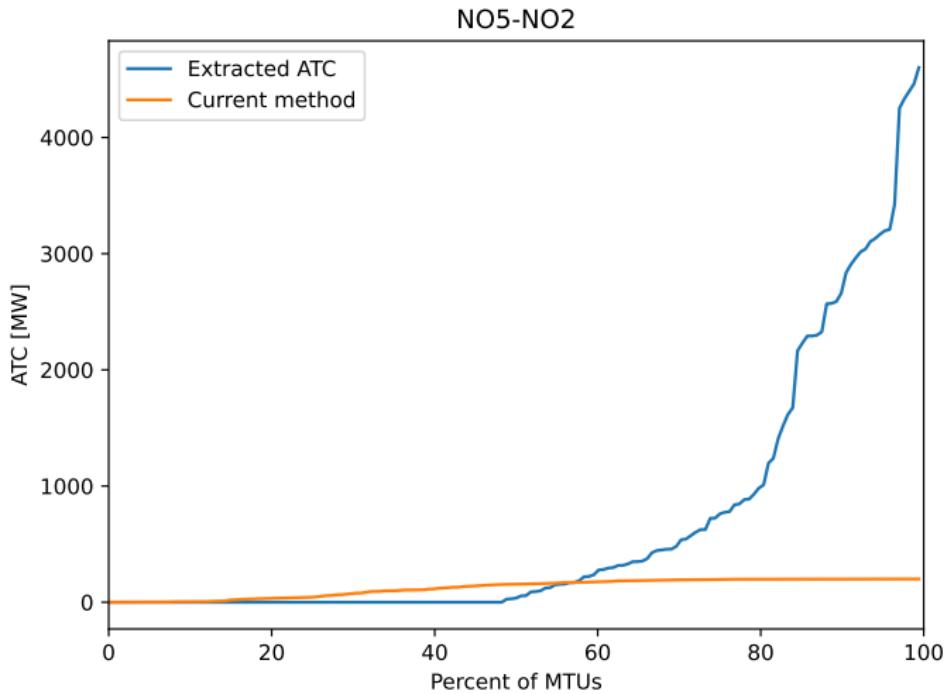
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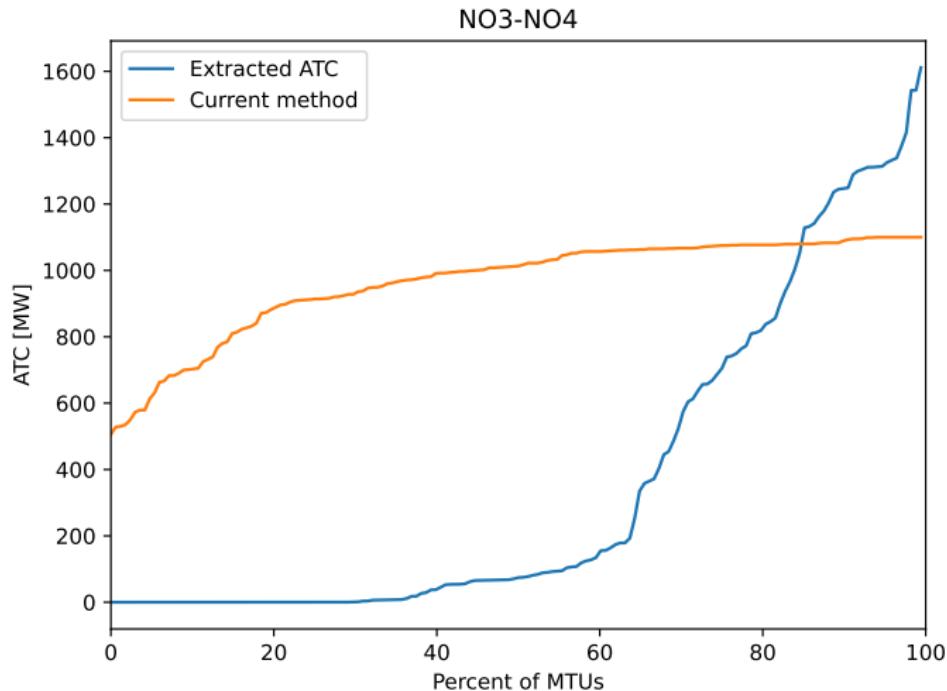
# NO4-NO3 ATC duration curves

NO4-NO3
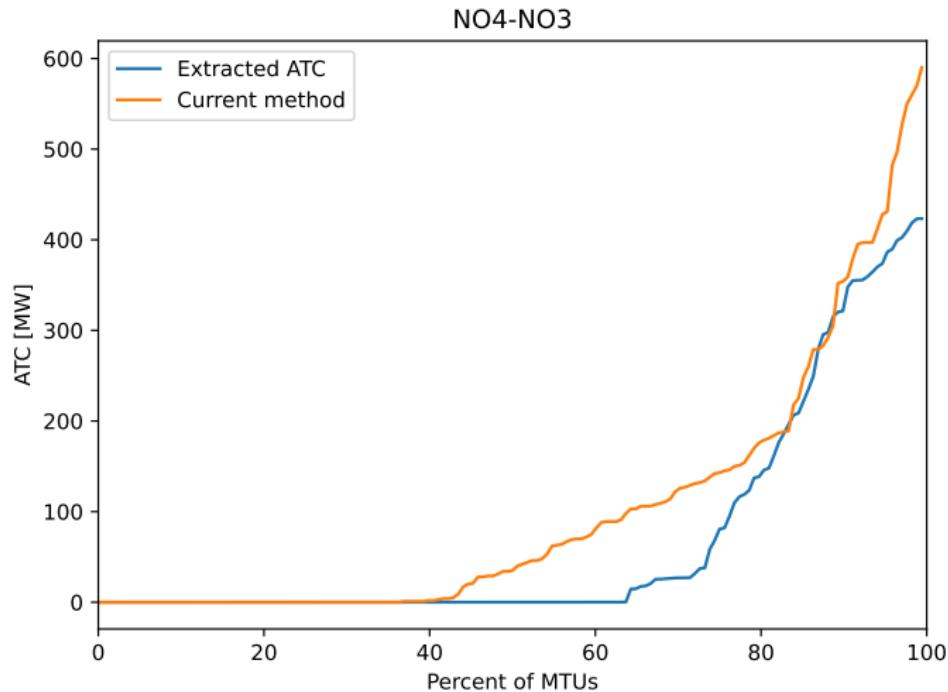
NO3-NO5 ATC duration curves
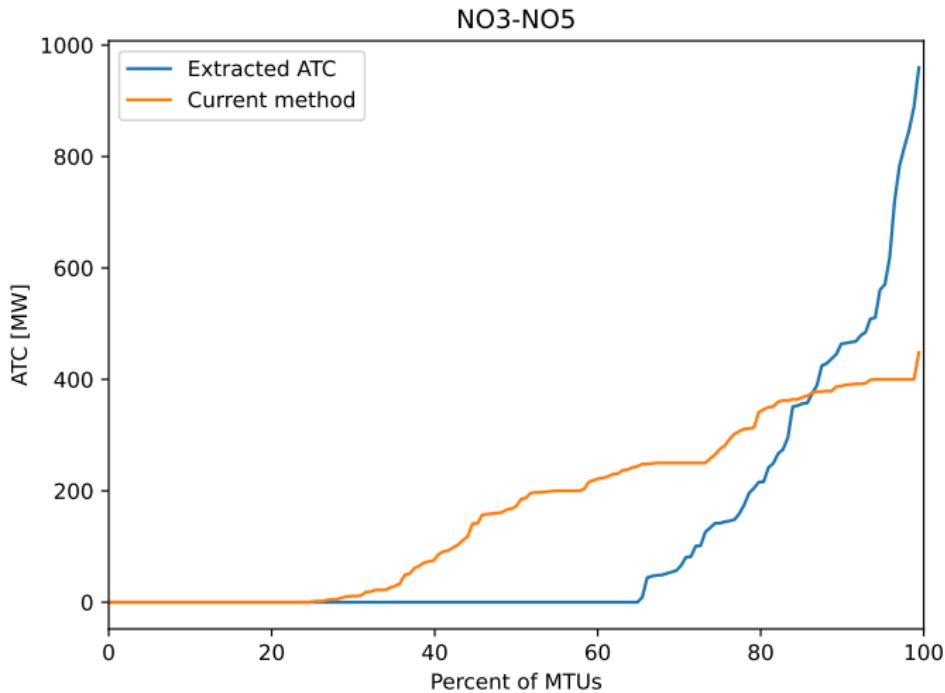
NO5-NO3 ATC duration curves
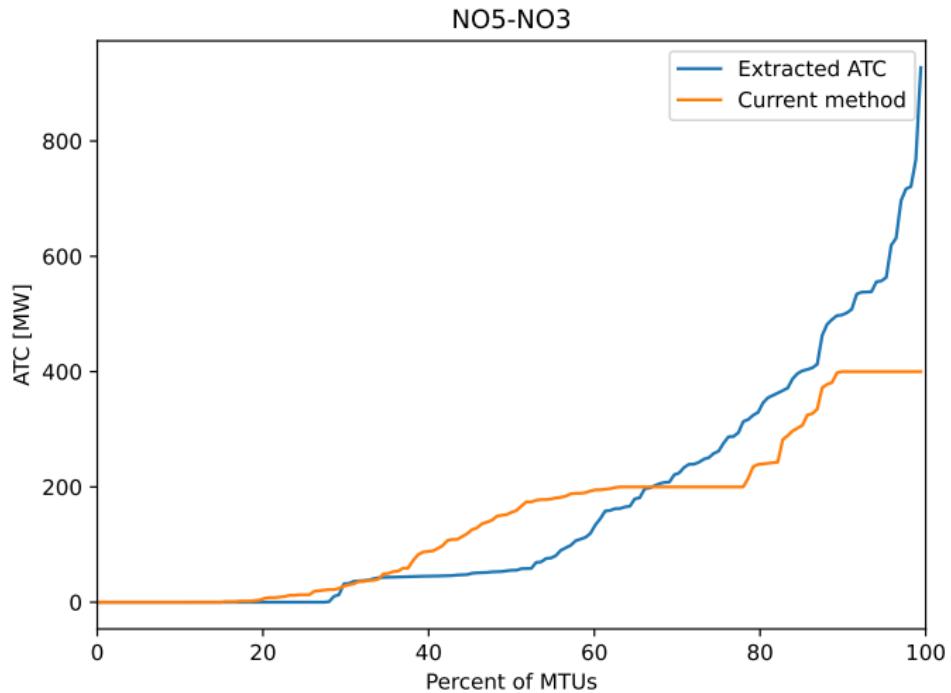
NO3-SE2 ATC duration curves

NO3-SE2
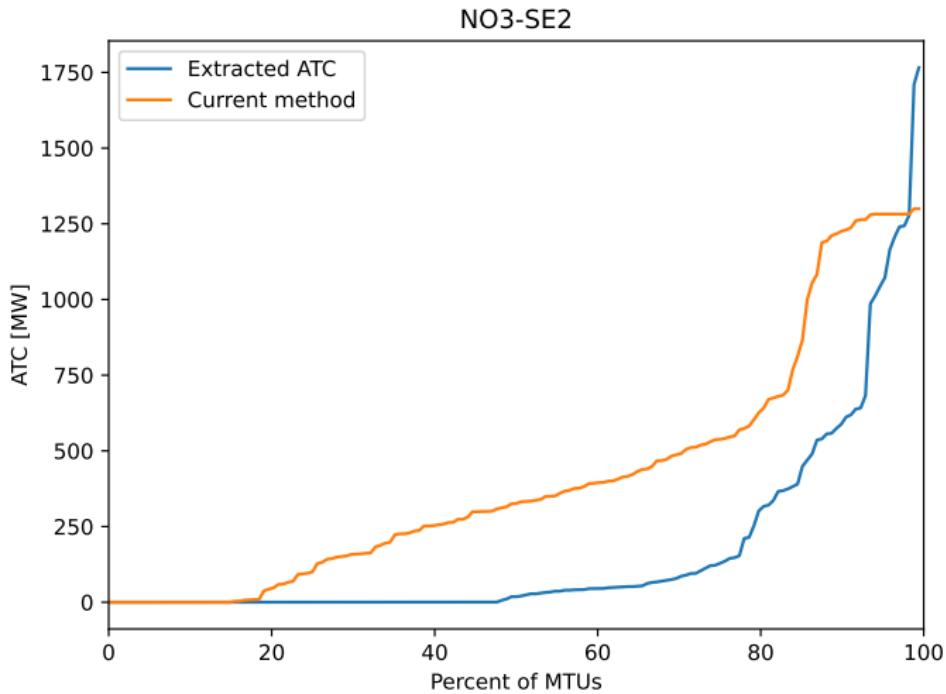
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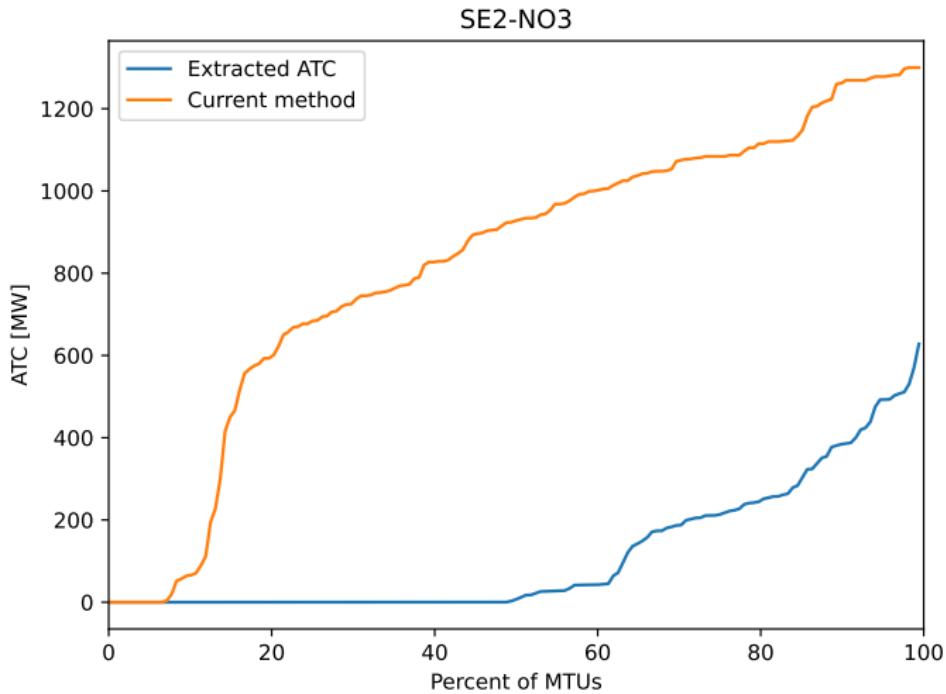
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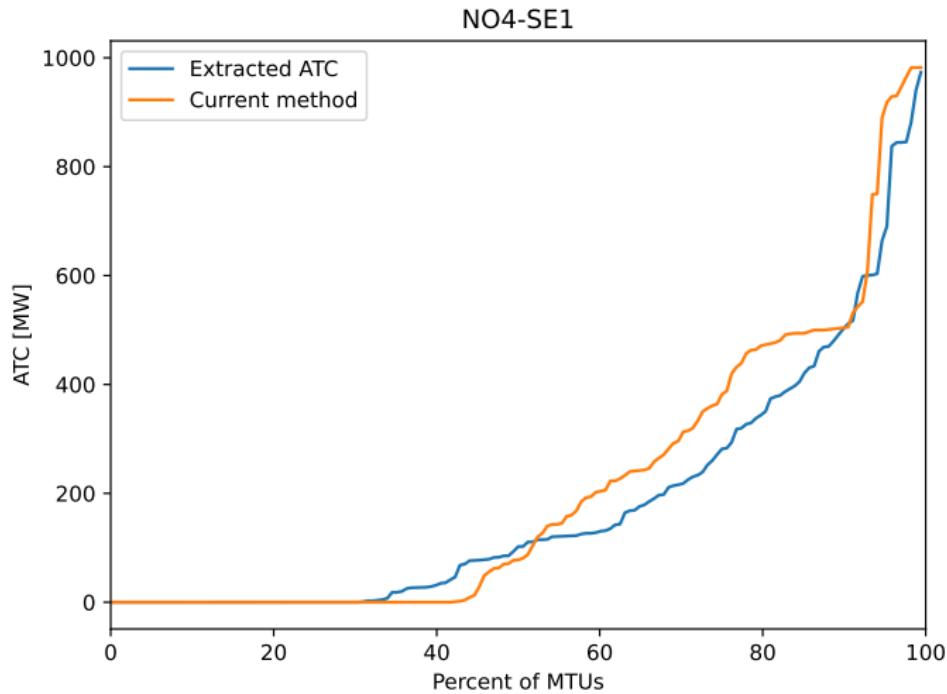
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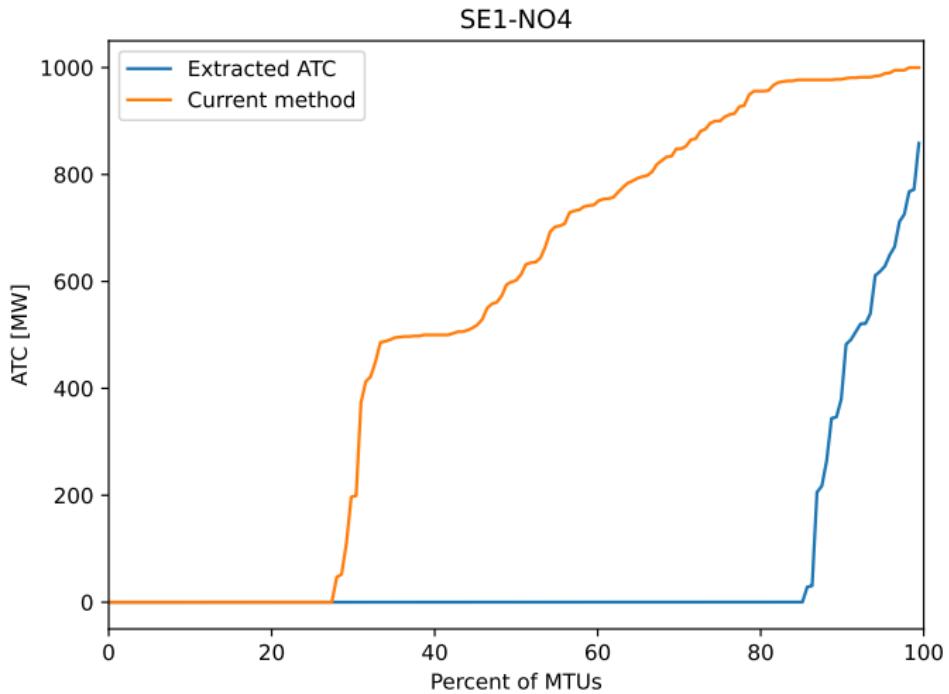
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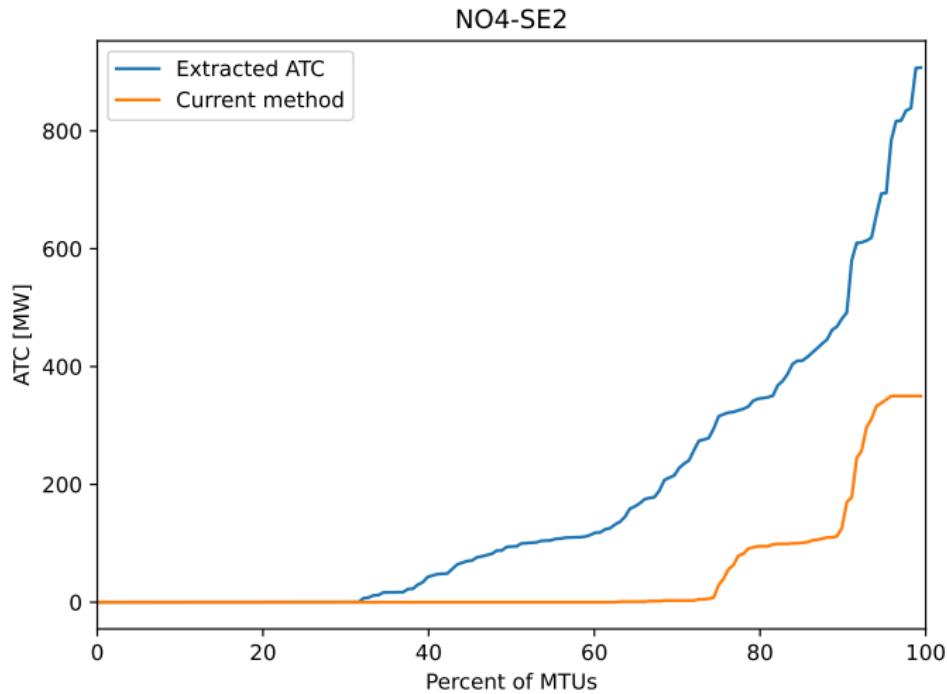
SE2-NO4 ATC duration curves

SE2-NO4
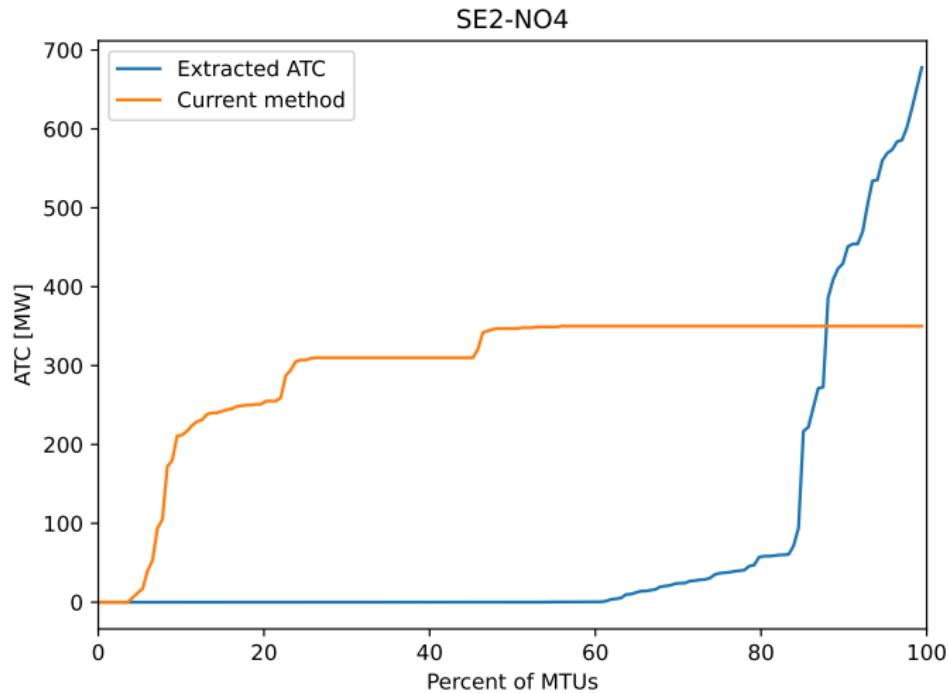
PL-SE4 ATC duration curves

PL-SE4
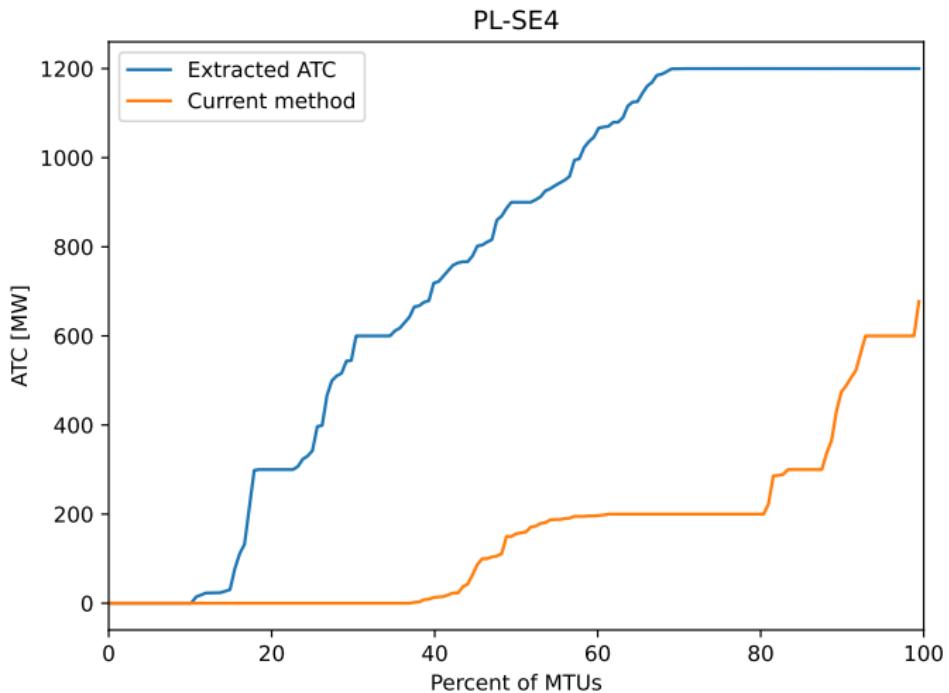
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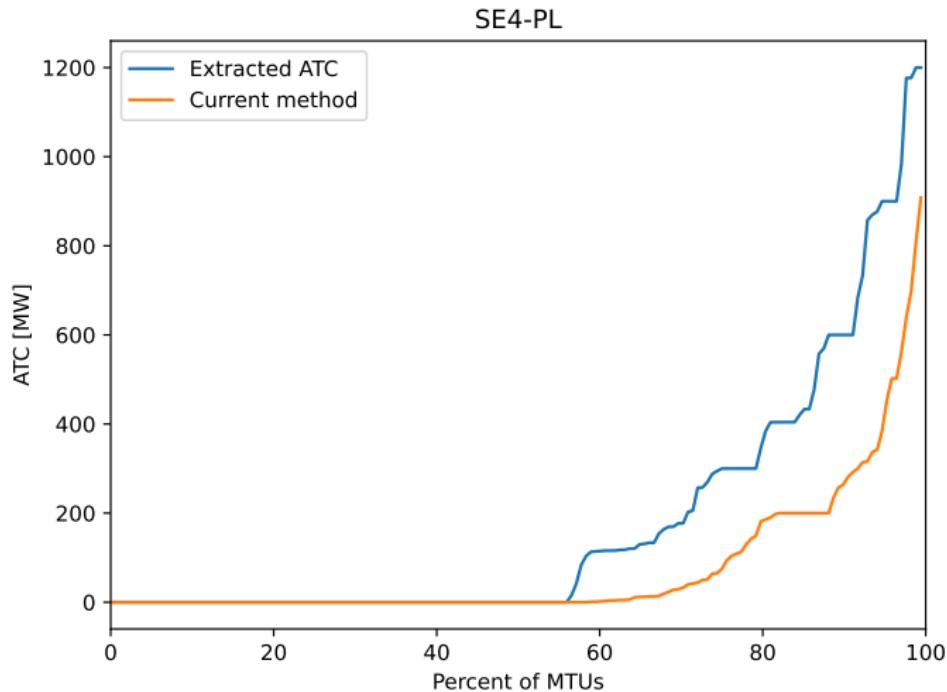
SE1-SE2 ATC duration curves

SE2-SE1 ATC duration curves
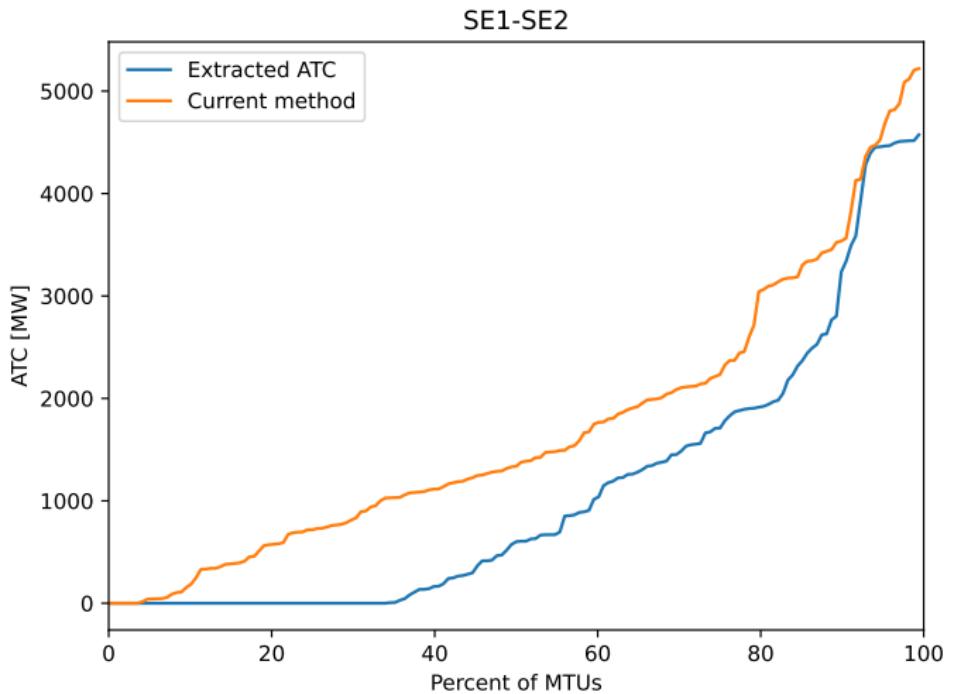
SE2-SE3 ATC duration curves
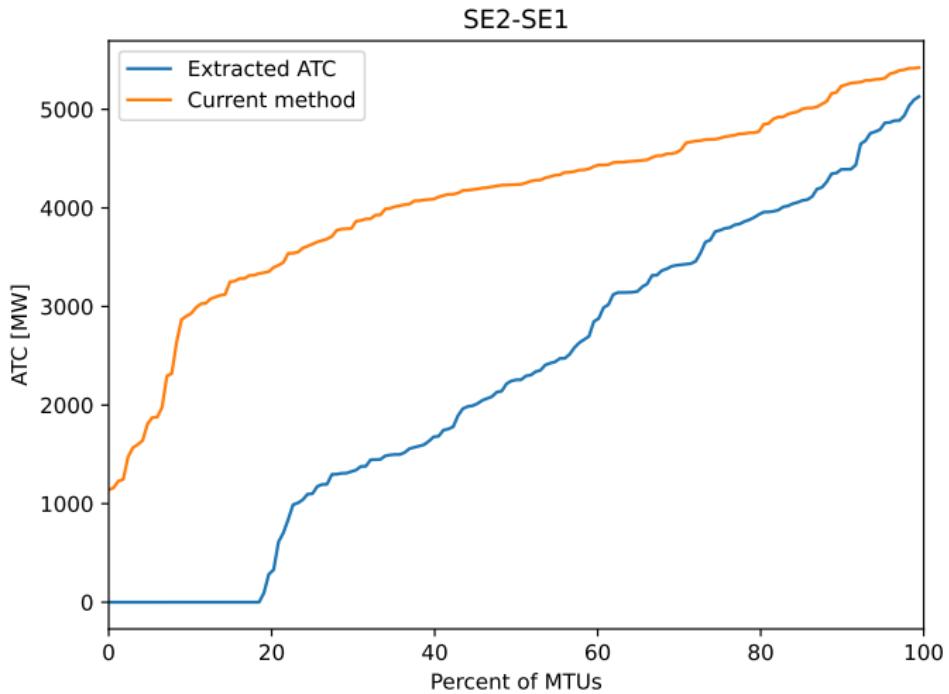
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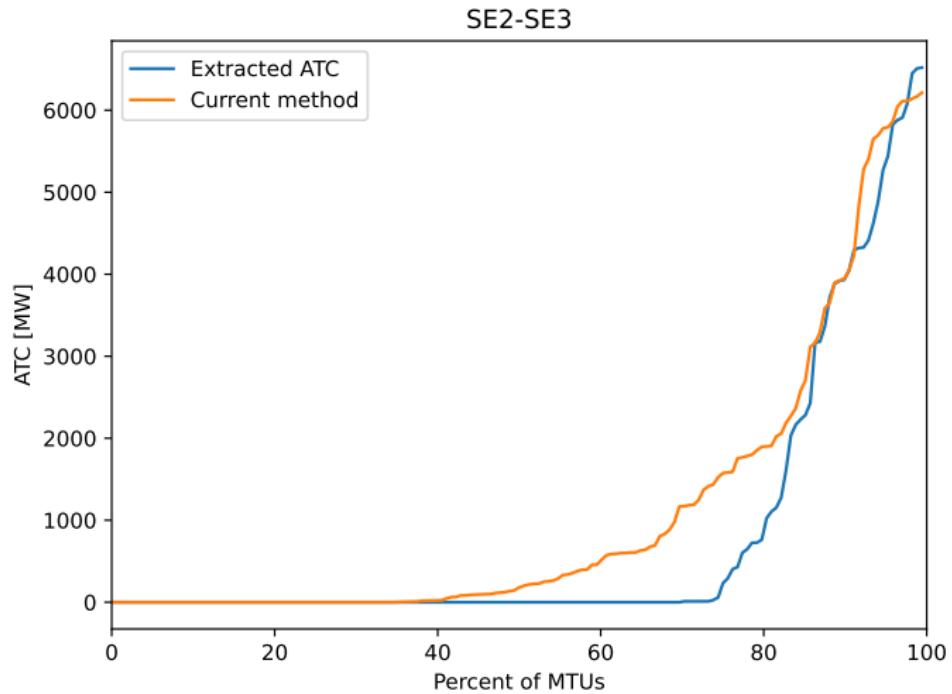
SE3-SE2 ATC duration curves
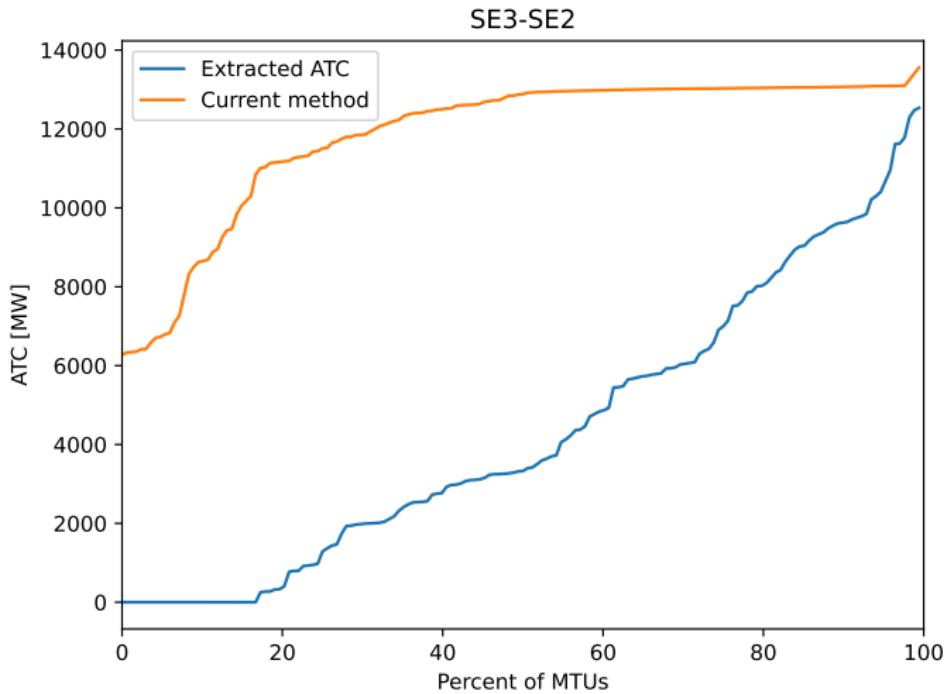
SE3_ACDC-SE4_ACDC ATC duration curves
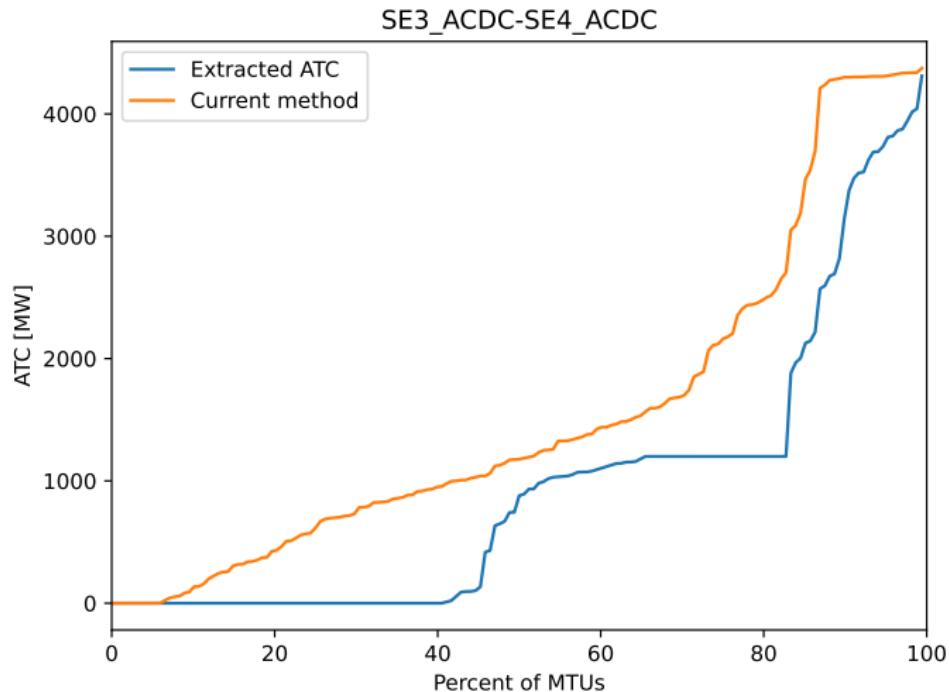
SE3_ACDC-SE4_ACDC

SE4_ACDC-SE3_ACDC ATC duration curves

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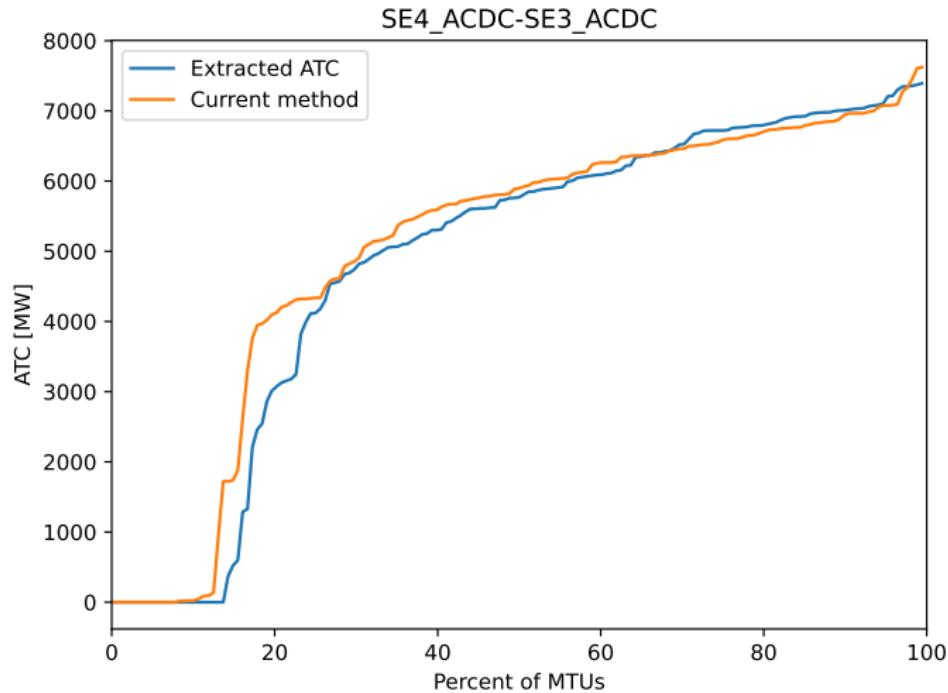
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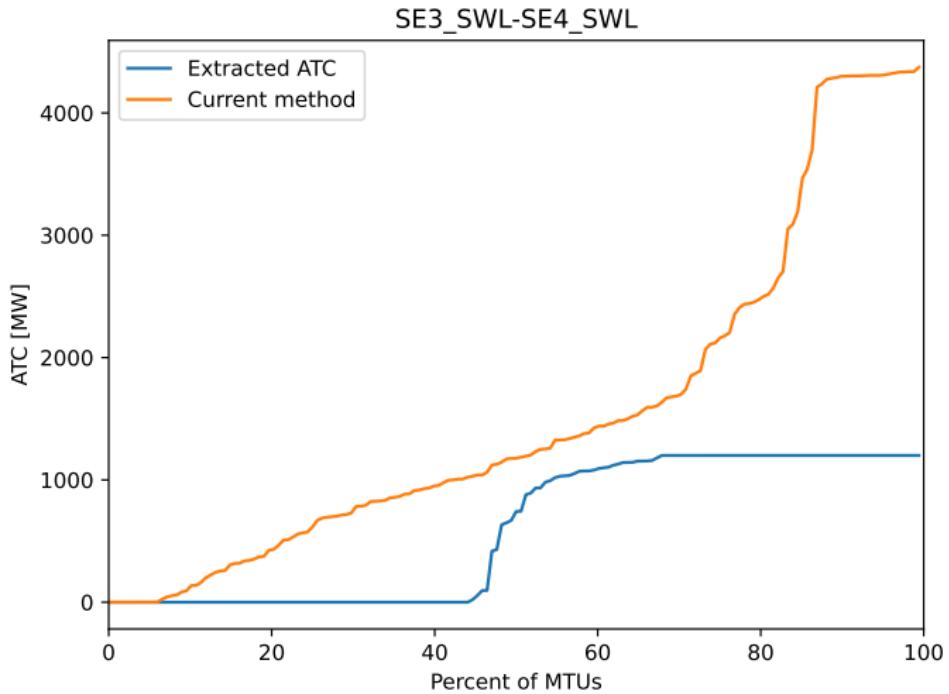
SE4_SWL-SE3_SWL ATC duration curves

SE4_SWL-SE3_SWL
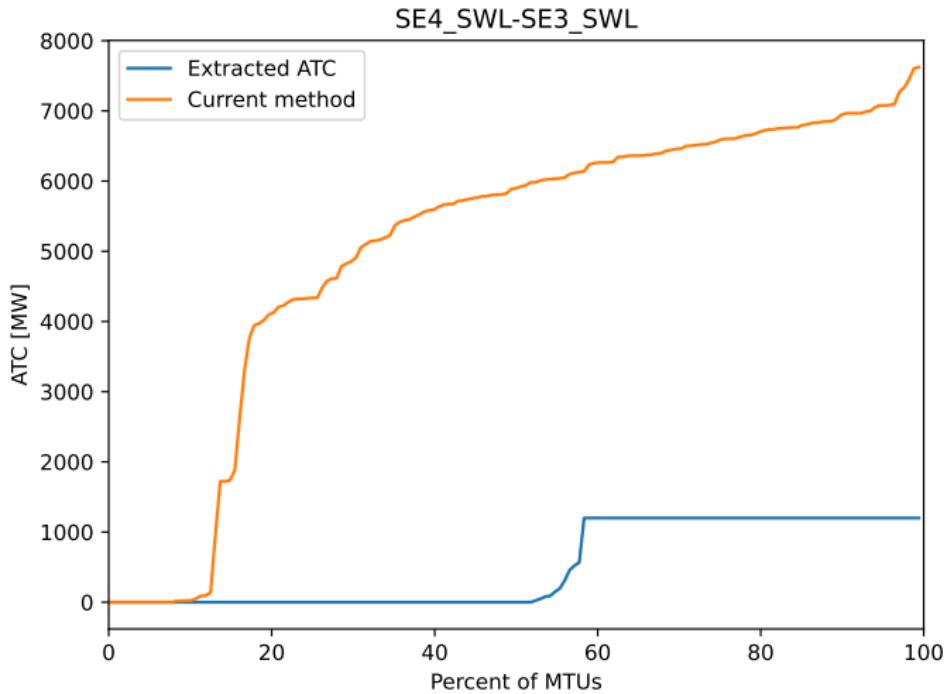
# SE3A-SE3 ATC duration curves

SE3A-SE3
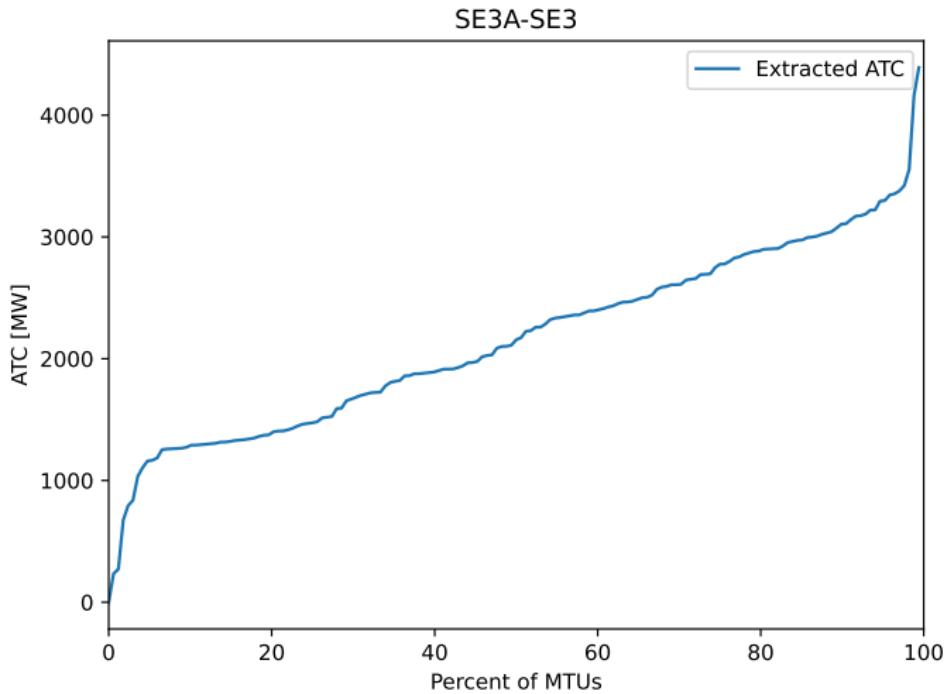
# SE3-SE3A ATC duration curves

SE3-SE3A
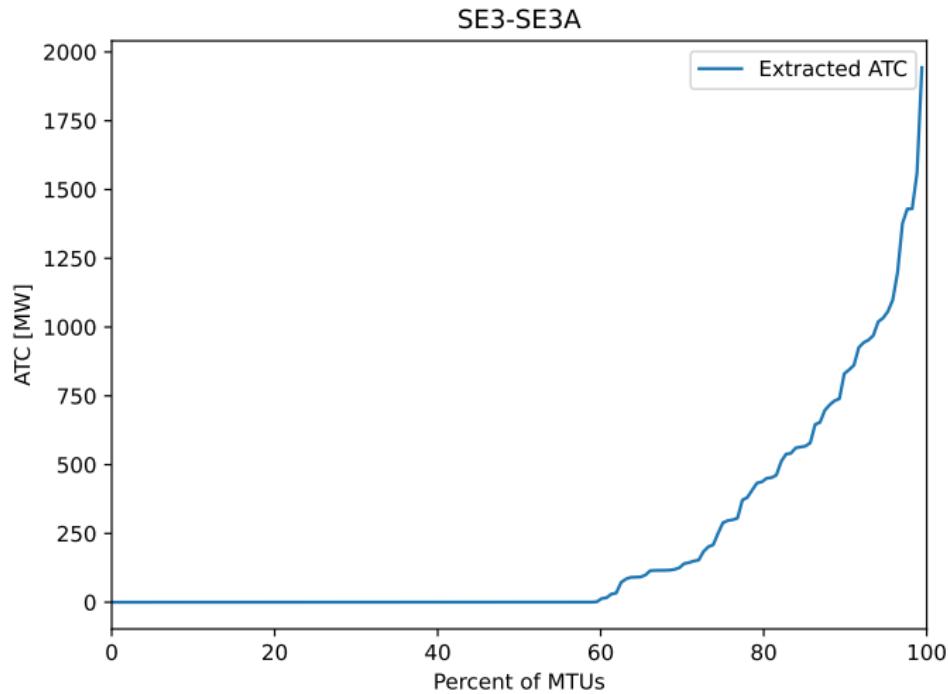
SE3_AC-SE4_AC ATC duration curves
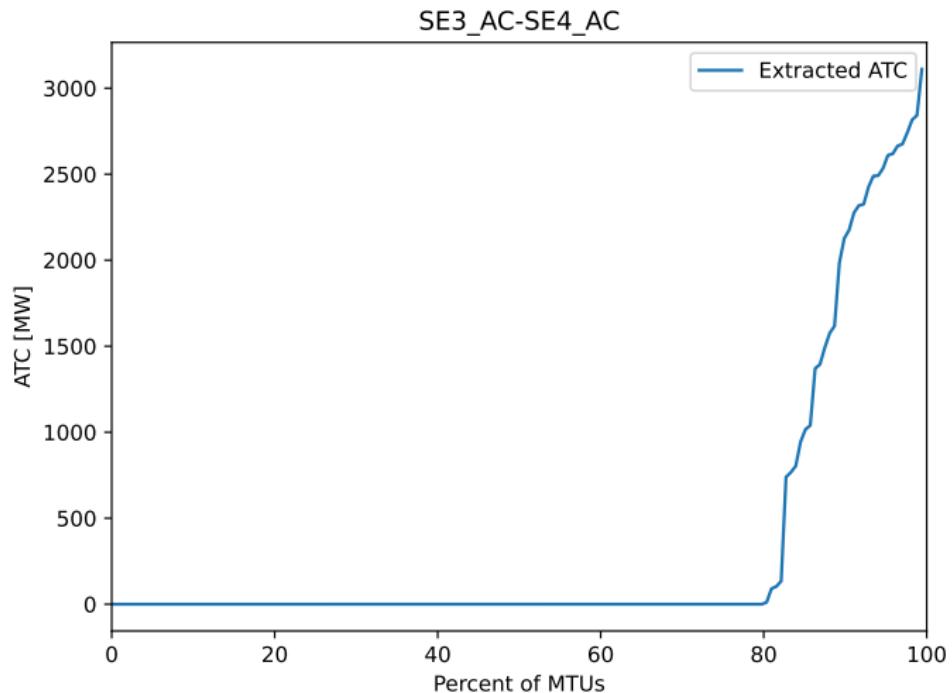
SE4_AC-SE3_AC ATC duration curves

SE4_AC-SE3_AC