



Nemo Link's Loss Factor, Rounding and Netting

Treatment of losses

Nemo Link's Mid-Point Loss Factor
2.372%
Effective from 00:00 CEST 01/09/2020

- ❖ To transpose the Mid Interconnector volumes into BE and GB, half of the Mid-Point Loss Factor (LF/2) needs to be applied on each side of the link

Exporting value = Mid-Interconnector nomination x $(1 + \text{LF}/2)$

Importing value = Mid-Interconnector nomination x $(1 - \text{LF}/2)$

$$\text{LF}/2 = 1.186\% = 0.01186$$

Exporting value = Mid-Interconnector nomination x **1.01186**

Importing value = Mid-Interconnector nomination x **0.98814**

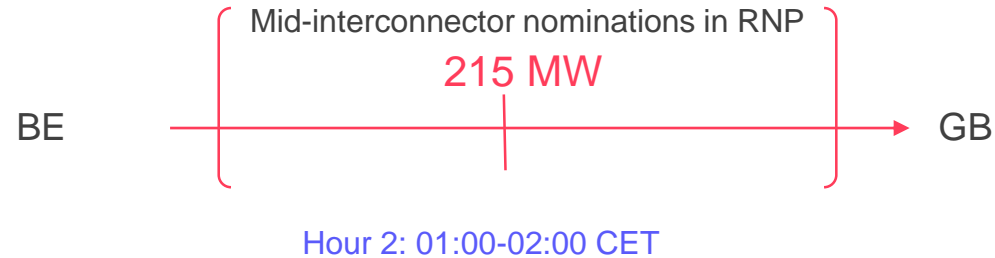
Rounding Rules for nominations in GB and BE markets

	GB (Elexon)	BE (Elia)
Values	MWh	MW
Resolution of data	30 mins	15 mins
Round rules	<p>Mathematical rounding rules applied to 3 decimal places</p> <ul style="list-style-type: none"> If the fourth decimal place is from 1 to 4 → round down If the fourth decimal place is from 5 to 9 → round up <p>Example: <u>For values between 1.451 and 1.452:</u> 1.4510 until 1.4514 rounded to 1.451 1.4515 rounded to 1.4520 rounded to 1.452</p>	<p>Step 1 (applied by RNP): Mathematical rounding rules applied to 3 decimal places</p> <ul style="list-style-type: none"> If the fourth decimal place is from 1 to 4 → round down If the fourth decimal place is from 5 to 9 → round up <p>Step 2 (applied by Elia): Rounding of the 3 decimal digits to the nearest 1 decimal digit value, and rounds midpoint values to the nearest 1 decimal digit even value. (<i>Banker's rounding rule = rounding to the nearest even number</i>).</p> <p>Example: <u>For values between 1.400 and 1.600:</u> 1.400 until 1.449 rounded to 1.4 1.450 rounded to 1.4 (nearest 1 decimal digit even value = 1.4) 1.451 to 1.549 rounded to 1.5 1.550 rounded to 1.6 (nearest 1 decimal digit even value = 1.6) 1.551 to 1.600 rounded to 1.6</p>

Example of loss calculation

Losses
2.372%

Half LF
1.186%



	GB (Elexon)	BE (Elia)
Settlement periods	00:00-00:30 GMT (01:00-01:30 CET) 00:30-01:00 GMT (01:30-02:00 CET)	01:00-01:15 CET 01:15-01:30 CET 01:30-01:45 CET 01:45-02:00 CET
Nominated values after losses applied (before rounding)	Energy volumes per 30 minute resolution = $215/2 * 0.98814 = 106.22505$ MWh	Flow per 15 minute resolution = $215 * 1.01186 = 217.5499$ MW
Final nominated values (after losses and rounding applied)	Mathematical rounding rules applied to 3 decimal places by RNP In this example, the volumes nominated to Elexon is 106.225 MWh in each settlement period	Mathematical rounding rules applied to 3 decimal places → RNP will send to Elia a flow of 217.550 MW Rounding of the 3 decimal digits to the nearest 1 decimal digit value, and rounds midpoint values to the nearest 1 decimal digit even value (<i>Banker's rounding rule = rounding to the nearest even number</i>) will then be applied by Elia → 217.6 MW will be nominated in the BRP's account as Day-ahead Cross-border UK export

Netting Rules for nominations in GB and BE markets

	GB	BE
Netting rules	Netting applied on nominations across all timescales (Long term, Day Ahead, Intraday) before applying losses and rounding	<ul style="list-style-type: none">• Netting only applied on nominations per timescale, <u>not across all timescales</u>.• Losses and rounding applied to nominations in each timescale separately (Long Term, Day Ahead, Intraday)
Data flow	Netted energy volumes across all timescales will be sent from RNP to Elexon at D+2 to the retrospective customers' BMU accounts	Nominations are sent from RNP to Elia per timescale shortly after each timescales' nomination gate closure on RNP

Example of Netting Rules for nominations in GB and BE markets

Hour 2: 01:00-02:00 CET

Long Term (LT)	Day Ahead (DA)	Intraday (ID)
BE-GB	BE-GB	GB-BE
100 MW	5 MW	215 MW

GB	
Netted position at Mid-Interconnector	110 GB-BE
Market Notification to Elexon (DMV) (at D+2 00:30 GMT/BST)	Energy volumes per 30 minute resolution = $110/2 * 1.01186 = 55.6523$ MWh → 55.652 MWh per 30min sent by RNP into customer's BMU Account

BE	
Nominations are sent separately per each timescale LT, DA, ID (no netting across all timescales)	
LT nominations (submitted to Elia shortly after 09:00 CE(S)T D-1 by RNP)	$100 * 1.01186 = 101.186$ MW → 101.2 MW nominated in the BRP's account as Day-ahead Cross-border UK export (*)
DA nominations (submitted to Elia shortly after 14:00 CE(S)T D-1 by RNP)	$5 * 1.01186 = 5.0593$ MW → 5.1 MW nominated in the BRP's account as Day-ahead Cross-border UK export (*)
(*) BRP's DA cross-border position after LT and DA nominations	$101.2 + 5.1 = 106.3$ MW in the BRP's account as Day-ahead Cross-border UK export
ID nominations (Submitted to Elia shortly after ID nomination gate closure by RNP)	$215 * 0.98814 = 212.4501$ MW ~ 212.451 MW → 212.5 MW nominated in the BRP's account as Intraday Cross-border UK import