



# Nemo Link's Loss Factor, Rounding and Netting

# Treatment of losses

Nemo Link's Mid-Point Loss Factor
<b>2.372%</b>
Remain 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**

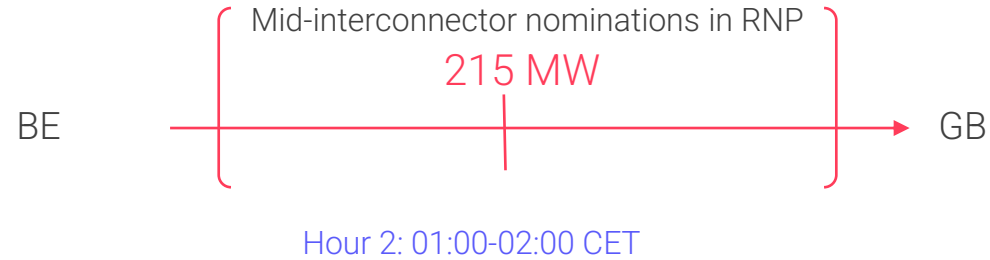
# Rounding Rules for nominations in GB and BE markets

	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"> <li>If the fourth decimal place is from 1 to 4 → round down</li> <li>If the fourth decimal place is from 5 to 9 → round up</li> </ul> <p><b>Example:</b>  <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>Rounding 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><b>Example:</b>  <u>For values between 1.40000 and 1.60000:</u>            1.40000 until 1.44999 rounded to 1.4            1.45000 rounded to 1.4 (nearest 1 decimal digit even value = 1.4)            1.45001 to 1.54999 rounded to 1.5            1.55000 rounded to 1.6 (nearest 1 decimal digit even value = 1.6)            1.55001 to 1.60000 rounded to 1.6</p>

# Example of losses and rounding 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)	<b>Energy volumes per 30 minute resolution</b> $= 215/2 * 0.98814 = 106.22505 \text{ MWh}$	<b>Flow per 15 minute resolution</b> $= 215 * 1.01186 = 217.5499 \text{ MW}$
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 <b>106.225 MWh</b> in each settlement period	Rounding of the 5 decimal digits 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 → <b>217.5 MW</b> will be nominated in the BRP's <b>account as Cross-border UK export</b>

# 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) at midpoint values before applying losses and rounding	Netting applied on nominations across all timescales (Long term, Day Ahead, Intraday) at midpoint values before applying losses and rounding
Data flow	Netted energy volumes across all timescales will be sent from RNP to Elexon at D+2 to the retrospective customers' BMU accounts.	<p>Nominations are sent from RNP to Elia per timescale shortly after each timescales' nomination gate closure on RNP.</p> <p>Elia will convert the received nominations back to the original midpoint values which BRPs submitted to RNP and <b>then applies netting across timeframes on midpoint.</b></p> <p>Finally the netted midpoint value will be converted to BE side by taking losses into account. Rounding to the nearest 1 decimal digit even value (Banker's rounding rule) will be applied by Elia</p>

# Example of Netting Rules for nominations in GB and BE markets

RNP nominations are as follow:

Long Term (LT)	Day Ahead (DA)	Intraday (ID)
BE-GB	GB-BE	GB-BE
100 MW	5 MW	205 MW

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

BE	
DA Netted position at Mid-Interconnector	95 MW BE → GB
<i>BRP's DA cross-border position after LT and DA nominations</i>	$= 95 * 1.01186 = 96.1267 \text{ MW}$ → <b>96.1 MW</b> included as International Energy Transfer Nomination in the BRP's Global Day Ahead position
Netted position at Mid-Interconnector after ID stage	110 MW GB → BE
<i>Final total netted position (after losses) allocated to BRP perimeter</i>	$= 110 * 0.98814 = 108.6954 \text{ MW}$ → <b>108.7 MW</b> included in the BRP's Global Aggregated Position