Loss Factor

IFA2
Interconnexion France-Angleterre
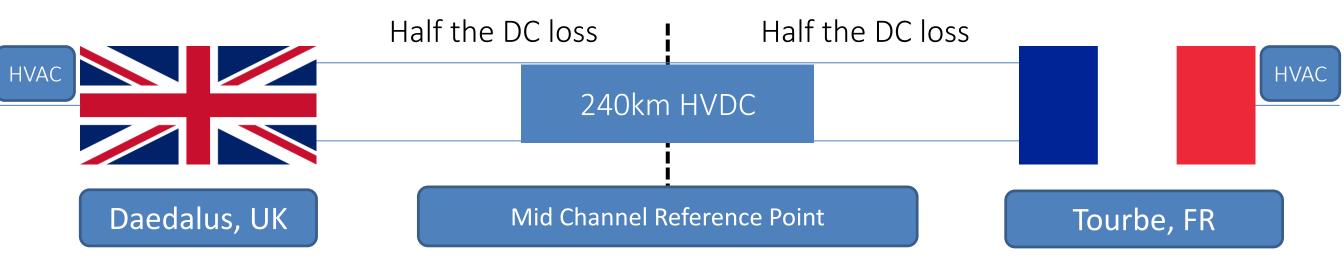
- Electrical losses are experienced on subsea HVDC interconnectors through effects such as the heating of resistive components and the effect of parasitic elements (resistance, capacitance, and inductance).
- These losses are calculated and averaged once an interconnector is energised.

Loss Factor (UK/FR)

1.475%

Half the DC loss   Half the DC loss

HVAC

240km HVDC

HVAC

Daedalus, UK

Mid Channel Reference Point

Tourbe, FR

- For those gaining capacity, the following algorithm needs to be used to ensure balance:

$$BMUMV = (1-(LF/2)) * DMV$$

BMUMV   BM Unit Metered Volume
DMV   Deemed Metered Volumes

For example, to fulfil customer's nomination for 100 MW FR-GB:

- Sending end (FR Ref): +1.475% Loss Factor = 1.01475 * 100 = 101.475 MW

- Receiving end (GB Ref): - 1.475% DC Loss Factor = 0.98525 * 100 = 98.525 MW

For further information, please contact ifa.customerenquiries@nationalgrid.com