
Annex 8: Configurations of the Bidding zone review region “United Kingdom” which are to be considered in the bidding zone review process

Bidding Zone Review Region UK

1 October 2019

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This annex depicts in detail the Bidding Zone configurations for the Bidding Zone Review UK that are to be considered in the bidding zone review process in accordance with Article 14(5) of Regulation (EU) 2019/943 of the European Parliament and the Council of 5th June 2019 on the internal market for electricity (recast).

2. Overview of the configurations of the Bidding Zone Review Region UK

1. The BZRR shall investigate the UK region Bidding Zone configurations. This includes the Bidding Zone Configuration as it is in place per 1/1/2020 as status quo configuration.
2. For the avoidance of doubt the UK region includes only Great Britain. Northern Ireland (part of the United Kingdom) is part of the Ireland region and the IE bidding zone and is therefore dealt within in Appendix 7.
3. Today, and as expected for 1/1/2020, Great Britain consists of one bidding zone. This configuration of a single GB market has existing since the introduction of BETTA¹ (British Electricity Trading and Transmission Arrangements) which came in to effect on 1 April 2005. The principal objective of the BETTA reform was the creation of a single, competitive wholesale electricity trading market in Great Britain. It joined the previous separate, but electrically synchronous, markets of Scotland and England & Wales.
4. The Great Britain electricity system is connected only to other systems via HVDC interconnectors. The GB system is a single synchronous area, managed by National Grid Electricity System Operator.
5. The borders of the current bidding zone are the HVDC Interconnectors connecting GB to other synchronous areas. Namely, Moyle Interconnector and East West Interconnector to the Irish (IE) bidding zone, and IFA, NEMO and BritNed connecting to the Core region and the France (FR), Belgium (BE) and Netherlands (NL) bidding zones respectively. As further interconnection is commissioned to other or the same bidding zones, the new interconnector will form part of the bidding zone border.
6. A geographical overview of the bidding zone delineations is given in Figure 1.
7. Each configuration is described in more detail in Section 3 of this Annex.

Configuration nr	1
Configuration Name	Status Quo
United Kingdom	Great Britain (England, Scotland and Wales)

Table 1: Overview of the Bidding Zone Configurations and the number of Bidding Zones per Member State per configuration

¹ <https://www.ofgem.gov.uk/sites/default/files/docs/2005/02/9549-2605.pdf>

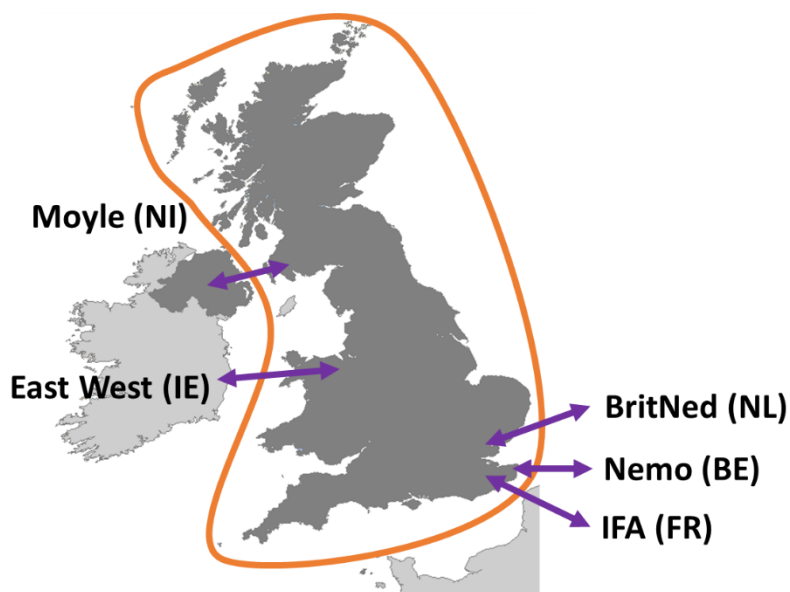


Figure 1: Current GB Bidding Zone outlined in Orange, with the HVDC interconnectors to other synchronous areas illustrated in purple

3. Detailed information per configuration

This section provides detailed information per configuration.

1: Status Quo Configuration

1. The overview of the Status Quo Configuration is inserted for convenience.
2. A geographical overview of the bidding zone delineations is given in Figure 2.
3. The network elements which will form the Bidding Zone Borders of this configuration, is given in Table 2.

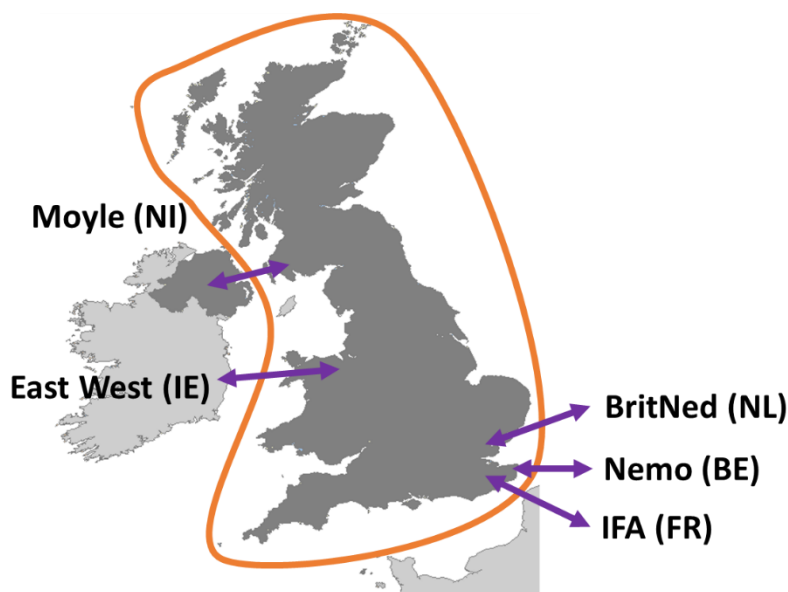


Figure 2: Current GB Bidding Zone outlined in Orange, with the HVDC interconnectors to other synchronous areas illustrated in purple

Configuration 1 "Status Quo"									
Cty-CBk	Bidding Zone Border	TSO1 ²	Station 1	TSO2	Station 2	Voltage level [kV]	Type	Network element Name	New/different compared to status quo?
GB	UK-BE	NGESO	Richborough	ELIA	Gezelle	400	DC	Nemo Link	Status Quo
GB	UK-NI	NGESO	Auchencrosh	SONI	Moyle	250	DC	Moyle	Status Quo
GB	FR-UK	RTE	Mandarins	NGESO	Sellindge	270	DC	IFA	Status Quo
GB	UK-NL	NGESO	Isle of Grain	TenneT	Maasvlakte	450	DC	BritNed	Status Quo
GB	UK-IE	NGESO	Deeside	Eirgrid	Woodland	260	DC	EWIS	Status Quo

Table 2: Bidding Zone Borders of Configuration 1 "Status Quo"

² The GB TSO is listed as National Grid Electricity System Operator Ltd (NGESO), the system operator for the whole of GB. The substations listed are owned by different Transmission Owners (TOs) – SP Transmission Plc own Auchencrosh, and the others (Richborough, Sellindge, Isle of Grain and Deeside) are owned by National Grid Electricity Transmission Plc.