

Modification Proposal – BSCP40/03MP No: 220
(mandatory by BSCCo)**Title (mandatory by originator): Provision of New Data Items for Improving Market Information****Submission Date (mandatory by originator): 26 October 2007****Description of Proposed Modification (mandatory by originator)**

Over the last twelve months, Electricity market information has been the focus of industry discussions with both Ofgem and the market participants expressing support for improving the current market information. National Grid has facilitated these discussions at a number of industry fora (e.g. Demand Forecast Seminar, Demand Side Working Group chaired by Ofgem and Operational Forum), followed by publication of a consultation document to seek industry views on a number of areas associated with market information. Following industry response to this consultation, National Grid has summarised industry responses and the proposed way forward in a conclusions report. (Both the consultation document and the conclusions report can be found at <http://www.nationalgrid.com/uk/Electricity/Data/electricitymarketinfo/> or copies can be obtained from the proposer of this modification).

Based on industry responses, the conclusions report prioritises areas that could be taken forward in the short to medium term. It also highlights areas that are either already under development (e.g. consistency of forecast and outturn demand data) or are too complex and may need to be considered separately (e.g. demand outturn at GSP level). This modification proposal focuses on priority areas that could be taken forward in the short to medium term.

A key priority area is the provision of a daily summary page (similar to the gas daily summary page established in 2005) which would contain key market information in a single place.

Five out of the eleven respondents supported the provision of a daily summary page and its proposed contents (including data which is already published elsewhere on the BMRS as well as the new data items). National Grid considers that the majority of the favourable responses and support at other industry working groups such as the DSWG has come from the smaller players and customers who do not have their own systems for analysis and evaluation of key market information. National Grid believes that the daily summary page would improve information transparency, particularly for the smaller market participants, which would enhance efficient operation of the electricity market.

The industry feedback also indicates that the daily summary page (and other new data items) should reside on the BMRS (Balancing Mechanism Reporting Service) system which is managed by Elexon, and that BMRS should be the preferred strategic choice for providing additional operational market information.

Elexon is working on an interim solution which will allow publication of the key existing information on a single page on the BMRS as well as make the BMRS more flexible in future so that other data flows can be added more easily. Delivery of flexibility on the BMRS is an inherent function of completing the work in this modification proposal, as current technological solutions are now more flexible than those used for existing information provision through the BMRS.

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The enduring solution for the daily summary page and other data publication requires new data items from National Grid to the BMRS. Following the industry feedback on the daily summary page and its contents, these new data items have been prioritised as follows:

- a) Outturn and reference temperatures
- b) Wind generation forecast (i.e. day and day ahead peak output forecast)
- c) Instantaneous and half-hourly generation by fuel type (i.e. CCGT, oil, coal, nuclear, OCGT, wind, pumped storage, Hydro, French Interconnector, Moyle, other)
- d) Daily energy volumes transported across the system
- e) Non-BM STOR (Short Term Operating Reserve) instructed volumes

With the exception of data item (e), the remaining new data items will be published on the daily summary page on the BMRS.

Description of Issue or Defect that Modification Proposal Seeks to Address (mandatory by originator)

The main defect this modification proposal seeks to address is that the current market information does not fully meet the needs of the industry, as indicated by the industry feedback to the Transmission Company's recent consultation.

The industry has also suggested that the key market information is scattered at a number of websites and is not available on a single platform. In particular, there is no daily summary page available for key electricity market information (as is the case for gas) to enable market participants to see quickly the key electricity market operational parameters.

The proposed change would lead to the provision of additional information requested by the market, which, in conjunction with the existing market information, could be published in a more user friendly way to deliver a summary page. The summary page when delivered will include a mix of current information already available to the market and the new information referred to in this modification.

Impact on Code (optional by originator)

Section Q

Outturn Temperature

Q6.1.15: Shall be added and read as follows: "No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the day preceding the current day: the outturn UK temperature expressed as an average degrees Celsius value of all temperatures measured at midday"

Reference Temperatures

Q6.1.16: Shall be added and read as follows: "No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the day preceding the current day:

- a) the Normal Reference Temperature expressed as a degrees Celsius value.

- b) the Low Reference Temperature expressed as a degrees Celsius value.
- c) the High Reference Temperature expected as a degrees Celsius value.”

Forecast wind generation (day and day ahead peak values)

Q6.1.17: Shall be added and read as follows: “No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the current day and the following day:

- a) the forecast total peak generation by Power Park Modules expressed as an average MW value for the Settlement Period
- b) time associated with the data defined in the above paragraph (a)
- c) the total Registered Capacity expressed as an average MW value of the Power Park Modules metered by the Transmission Company”

Outturn ‘instantaneous’ generation by fuel type (including interconnector flows)

Q6.1.18: Shall be added and read as follows: “As close to real-time as practical, the Transmission Company shall send to the BMRA the outturn total instantaneous generation expressed as a MW value for each of the following categories:

- a) Combined Cycle Gas Turbine Modules
- b) Oil Plant
- c) Coal Plant
- d) Nuclear Plant
- e) Power Park Modules
- f) Pumped Storage Plant
- g) Cascade Hydro Scheme
- h) Open Cycle Gas Turbine plant
- i) External Interconnection flows from France to England
- j) External Interconnection flows from Ireland to Scotland
- k) Other”

Outturn ‘half-hourly’ generation by fuel type (including interconnector flows)

Q6.1.19: Shall be added and read as follows: “No later than 15 minutes following the end of each Settlement Period, the Transmission Company shall send to the BMRA the outturn total generation expressed as an average MW value for that Settlement Period for each of the following categories:

- a) Combined Cycle Gas Turbine Modules
- b) Oil Plant
- c) Coal Plant
- d) Nuclear Plant
- e) Power Park Modules
- f) Pumped Storage Plant
- g) Cascade Hydro Scheme
- h) Open Cycle Gas Turbine plant
- i) External Interconnection flows from France to England
- j) External Interconnection flows from Ireland to Scotland
- k) Other”

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(mandatory by BSCCo)**Outturn energy**

Q6.1.20: Shall be added and read as follows: “No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the day preceding the current day: the outturn Transmission System Energy transmitted across the Transmission System expressed in MWh”

Non-BM STOR (Short Term Operating Reserve) instructed volumes

Q6.1.21: Shall be added and read as follows: “No later than 15 minutes following the end of each Settlement Period, the Transmission Company shall send to the BMRA the Non-BM STOR Instructed Volume for that Settlement Period”

Section X, Annex X-2, Table X-2

Insert the following new terms:

Coal Plant			A Power Station which uses coal as the primary source of fuel.
Combined Cycle Gas Turbine Module			Has the meaning as defined in the Grid Code.
External Interconnection			Has the meaning as defined in the Grid Code.
High Reference Temperature		Degree Celsius	The daily average UK temperature which was exceeded on 12% of days during a 30 year historic period.
Low Reference Temperature		Degree Celsius	The daily average UK temperature which was exceeded on 88% of days during a 30 year historic period.
Non-BM STOR Instructed Volume		MWh	Volume of STOR instructed outside of the Balancing Mechanism in order to increase generation or reduce demand.
Normal Reference Temperature		Degree Celsius	The daily average UK temperature which was exceeded on 50% of days during a 30 year historic period.
Nuclear Plant			A Power Station which uses nuclear energy to generate electricity.
Oil Plant			A Power Station which uses oil as the primary source of fuel.
Open Cycle Gas Turbine Plant			Plant consisting of one or more Gas Turbine Units which are not part of a Combined Cycle Gas Turbine Module
Power Park Module			Has the meaning as defined in the Grid Code.
Registered Capacity		MW	Has the meaning as defined in the Grid Code.
STOR			Short Term Operating Reserve is a balancing service procured by the Transmission Company and has the meaning as defined in

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			Procurement Guideline.
Transmission System			Has the meaning given to the term GB Transmission System in the Grid Code
Transmission System Demand		MW	Has the meaning given to the term GB Transmission System Demand in the Grid Code
Transmission System Energy		MWh	The integral with respect to time of Transmission System Demand

Impact on Core Industry Documents or System Operator-Transmission Owner Code (optional by originator)

None.

Impact on BSC Systems and Other Relevant Systems and Processes Used by Parties (optional by originator)

Changes will be required to the system interfaces that transmit data from Transmission Company to the BMRS.

Impact on other Configurable Items (optional by originator)

BMRA & SAA Interface Specification - changes to this Specification need to be agreed between the Transmission Company and Elexon.

Justification for Proposed Modification with Reference to Applicable BSC Objectives (mandatory by originator)

Provision of better quality information should improve self-balancing by the market participants which should, in turn, improve the efficient, economic and co-ordinated operation of the GB transmission system (Applicable BSC Objective (b)).

Increase in information transparency and availability of improved market information to all participants should promote effective competition in the generation and supply of electricity (Applicable BSC Objective (c)).

Urgency Recommended: Yes / No (delete as appropriate) (optional by originator)

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Justification for Urgency Recommendation (mandatory by originator if recommending progression as an Urgent Modification Proposal)

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Attachments: Yes / No (delete as appropriate) (mandatory by originator)

If Yes, Title and No. of Pages of Each Attachment: