

Stage 03: Draft Solution to Identify Impacts

What stage is this document in the process?

- 01 Initial Written Assessment
- 02 Definition Procedure
- 03 Assessment Procedure
- 04 Report Phase

P244: Provision of BritNed flow data to the BMRS

P244 aims to modify the Balancing Mechanism Reporting Service (BMRS) to include data relating to the Netherlands-England Interconnector



Impacts:
Transmission Company, BMRA, BMRS users

P244
Draft Solution Identify
Impacts

01 September 2009

Version 1.0

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About this document:

This document is the Draft Solution to identify impacts for P244. It summarises the P244 Proposed solution, and summarises the changes - to the extent the group has been able to identify them - that will be required to participants' systems, BSC Central Systems, Code Subsidiary Documents and Configurable Items to implement the Proposed P244 solution.

Please note the requirements are based on the current P244 solution. The solution may change during the P244 Assessment Procedure. If approved, final requirements will be detailed in a Business Requirements Solution for P244.

This document is to facilitate assessment of the impact of implementing P244. You should assess impacts and submit responses in accordance with the covering documents supplied with this Draft Solution.



Any questions?

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Why Change?

The Balancing Mechanism Reporting Service (BMRS) publishes a range of market data sourced from the Transmission Company, including details of generation by fuel type. This generation information is broken down into 11 different fuel categories, two of which represent the flows from the England-France and Northern Ireland-Scotland Interconnectors. A third interconnector joining England and the Netherlands ('BritNed') is scheduled to begin operations in late 2010.

In anticipation of this, P244 aims to establish BritNed as an additional fuel type category on the BMRS so that its contribution to generation can be included in the relevant reports.

Solution

The BMRS reports that include a breakdown of generation by fuel type will be modified to include an additional category for the BritNed flow. Four reports are affected:

- Instantaneous Generation by Fuel Type (FUELINST, graphical and tabular)
- HH Generation by Fuel Type (FUELHH, graphical and tabular)
- BM Unit Fuel Type (spreadsheet)
- Average Half Hourly Interconnector Flows (graphical and tabular)

These reports are available from the Electricity Summary Page of the BMRS.

Impacts

We believe that P244 will impact:

- Transmission Company;
- BMRA who manages BMRS;
- Non Physical Traders;
- Interconnector Users;
- Interconnector owners, operators and developers;
- Interconnector Administrators; and
- Interconnector Error Administrators.



BMRS

The BMRS can be accessed at:
www.bmreports.com

Requirement 1 – Data submission to BMRS

The Transmission Company (National Grid) will need to amend its systems to include BritNed data within the information submitted to the BMRS. As with the current generation information, the data will need to be provided on a continuous basis; every 5 minutes for the instantaneous data and within 15 minutes of the end of each Settlement Period for the half hourly data.

Requirement 2 – Receipt of data by BMRS

The BMRS will receive the additional BritNed data via the existing BMRA-I003 'Receive System Related Data' and BMRA-I020 'Receive BM Unit Fuel Type List' interfaces.

Requirement 3 -- Publication on BMRS

The BMRS will publish the data received from National Grid, identifying BritNed data where relevant as a distinct fuel type. Publication will consist of two elements:

- **Requirement 2a – Electricity Summary Page**

The Generation by Fuel Type table will need an additional row to show the contribution of the BritNed interconnector.

Generation By Fuel Type (table)						
GB Generating Plant	Current		Last Half Hour (09:00-09:30)		Last 24 Hours (09:30-09:30)	
	MW	%age	MW	%age	MWh	%age
CCGT	18244	45.3%	18151	45.5%	418648	48.7%
OCGT	0	0.0%	0	0.0%	38	0.0%
OIL	0	0.0%	0	0.0%	0	0.0%
COAL	12811	31.8%	12438	31.2%	221831	25.8%
NUCLEAR	7740	19.2%	7734	19.4%	188169	21.9%
WIND	538	1.3%	525	1.3%	7418	0.9%
PS	376	0.9%	488	1.2%	11798	1.4%
NPSHYD	589	1.5%	589	1.5%	11790	1.4%
OTHER	0	0.0%	0	0.0%	0	0.0%
Interconnectors	MW	%age	MW	%age	MWh	%age
INTFR	0	0.0%	0	0.0%	235	0.0%
INTIRL	0	0.0%	0	0.0%	0	0.0%
TOTAL	40298	100%	39925	100%	859928	100%

Data last updated: 2009-08-25 08:45:00 (GMT)

24H Instant. Data
BMU Fuel Type EXCEL Spreadsheet
Information

Figure 1: Generation by Fuel Type table on the Electricity Summary Page

A BritNed entry will be added to BMU Fuel Type Spreadsheet, while an additional column will be added to the 24hr Instantaneous Data CSV file to include the generation associated with the new interconnector.

The graphs for Generation by Fuel Type and the Average Half Hourly Interconnector Flows will need to be amended to show BritNed’s contribution, along with a checkbox allowing users to filter the data.

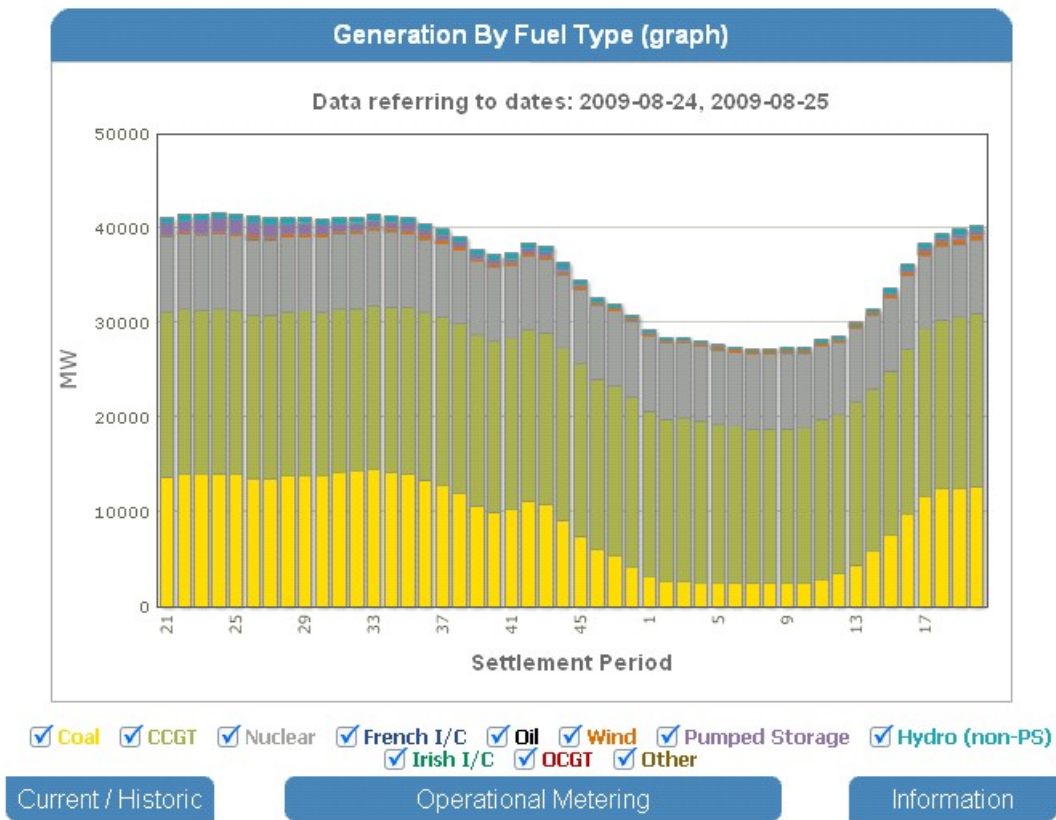


Figure 2: Generation by Fuel Type graph on the Electricity Summary Page

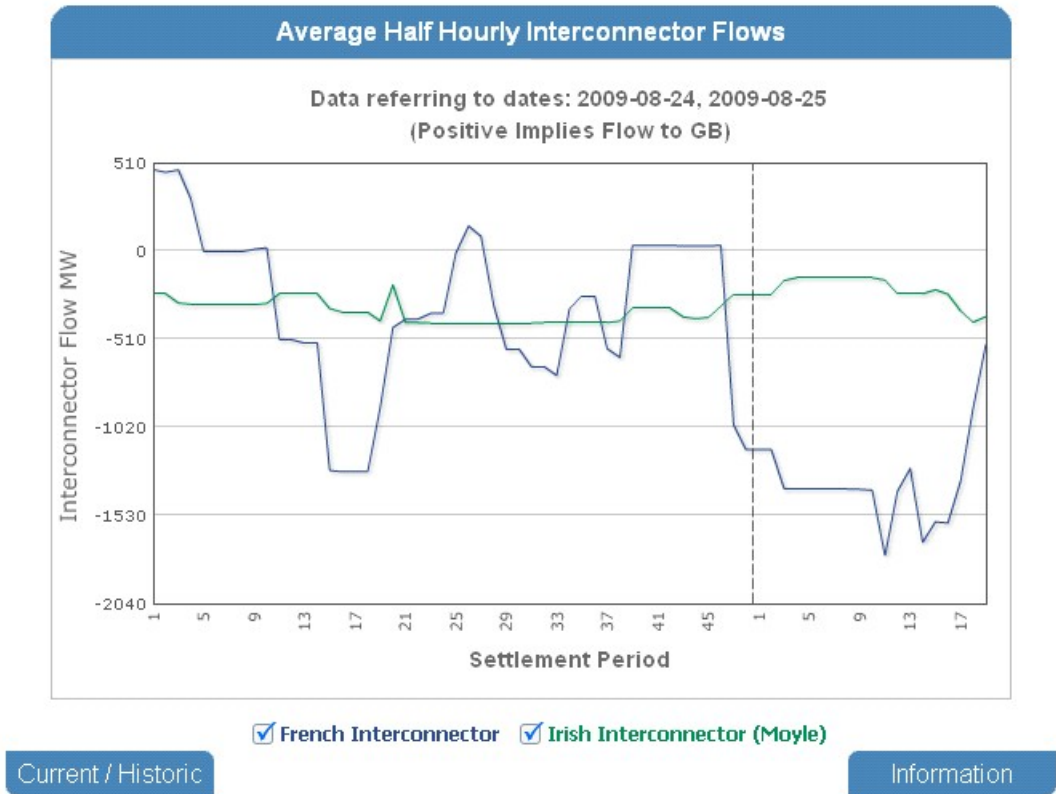


Figure 3: Average HH Interconnector Flows graph on the Electricity Summary Page

The Current/Historic table views linked from these graphs will need an additional column, and the XML and CSV files will need to be amended to include the extra fuel type.

• Requirement 2b – TIBCO Messages

Existing TIBCO messages will need to be amended to replicate the changes made to the data on the Electricity Summary Page, ensuring High Grade users receive the additional BritNed information.

Requirement 3 – BMRS Users

Market Participants using the TIBCO service will need to amend their systems to ensure they can continue to receive the revised messages. Low Grade users may need to change systems and processes to accommodate the new data.

3 Likely Impacts

Impacts

Impact on BSC Systems and process

BSC System/Process	Potential impact
BMRS	Changes are required to receive and validate the data and make this available to participants via the website and the TIBCO messaging service.

Impact on BSC Agent/service provider contractual arrangements

BSC Agent/service provider contract
None

Impact on BSC Parties and Party Agents

BMRS High Grade users will be able to receive the additional data via the website and/or TIBCO messaging. Low Grade users will be able to receive the additional data through via the public website. Both types of user may need to alter systems or processes to accommodate the changes.

Impact on Transmission Company

Changes will be required to National Grid systems to collate and submit the BritNed data to the BMRS.

Impact on Code

Code section	Potential impact
Section Q	This section will need amendment to reference BritNed as one of the fuel type categories used for BMRS reporting. Other sections (e.g. Sections V and X) may also be impacted.

Impact on other Configurable Items

Configurable Item	Potential Impact
BMRA & SAA Interface Specification	Changes may be needed to reference the transfer of the additional data
BMRA User Requirements Specification (URS)	Changes to these documents will be required to reference the revised data flows, tables and graphs
Logica Interface Definition and Design (IDD) Part 1	
BMRA Design Specification	
BMRA System Specification	

4 Further Information

More information on P244 can be found on the [P244 webpage](#).