

## **Provision of Maintenance Information at Interconnection Points - EU Harmonisation**

### **Background:**

European Regulation EC 715/2009 puts an obligation on Transmission System Operators (TSOs) to publish Maintenance Information. National Grid does this by publishing an annual summer and winter maintenance programme for the National Transmission System (NTS). The European Network of Transmission System Operators for Gas (ENTSO-G) launched a public consultation on the issue of Harmonisation of Maintenance Publication (PR008-11) <http://www.entsog.eu/publications/index.html>. National Grid is now publishing additional maintenance information specific to Interconnection Points (IPs) consistent with the template for harmonisation of maintenance publication as a result of this consultation. This is intended to give a forward looking view of impact on cross-border flows only.

Link to maintenance Plan: <http://www.nationalgrid.com/uk/Gas/OperationalInfo/maintenance/>

### **Notes and interpretation:**

#### **1 Publication frequency**

The intention is to publish this document on 14th November and then update this whenever there is a change to the impact of maintenance on an Interconnector Point. This will be updated at least 42 days before the change, where known. This is in accordance with the agreed publication frequency by ENTSG. This is only intended to give an indication of the impact of maintenance and is subject to change. Changes made will be indicated in the Version Control.

#### **2 Structure of the publication**

The format of the sheets included in this document is in accordance with that agreed by ENTSG (may be subject to change). The yearly publication gives and overview of maintenance per month for the coming year. The Monthly sheet then breaks down the Month to give more detail. A Monthly sheet will only be published where there is an effect of maintenance shown on the Yearly sheet. Both sheets will be published per Interconnection Point. In the UK the applicable Interconnections Points are IUK and BBL at Bacton and the Irish Interconnector at Moffat. At Bacton as Entry Capacity is sold at an ASEP level there will be one sheet for Bacton Entry which will include both IUK and BBL (and also non IPs) as the impact on capacity can not be determined at an individual point level for Entry Capacity.

#### **3 Units of measurement**

The information will be published in both UK and EU units of measure in Energy Unit (Kwh) shown on separate sheets.

#### **4 Definition of capacity**

In the UK the Capacity regime currently defines capacity around Baseline Obligations which are defined in National Grids Transporter licence. This is the amount of Firm Capacity that National Grid are obligated to make available for sale. This is therefore the definition which has been used for Firm Capacity in this document and any impacts shown are therefore against this obligated capacity. It is important to note that the Capability of the physical Transmission Network may be different to Capacity. This document does not intend to show the impact on Capability.

The UK Capacity Regime currently only sells Interruptible Entry Capacity at a Day Ahead auction and therefore it is not possible to publish in advance the impact of maintenance on the interruptible Capacity.

#### **5 Determination of impact**

The impact on Interconnection Point Capacity, published in terms of quantity, percentage and number of days will be determined by using the worst case impact within the given month or week. This is the impact on Capacity and not capability as mentioned in point 4 above..

## Version Control

[illegible]

Units of measurements: kWh/d

|           | FIRM capacity                    |  |  |   | INTERRUPTIBLE capacity<br>(one sub-table for each category: first,second, third class etc) |  |  |                                      | PERIOD<br>(i.e. number of days<br>during the month<br>affected by the<br>detailed<br>maintenance) | NATURE OF PLANNED<br>MAINTENANCE<br>(in-line inspection; pipeline<br>works; installation works) |
|-----------|----------------------------------|--|--|---|--|--|--|--------------------------------------|---|---|
| Month     | FIRM CAPACITY<br>(A)<br>(kWh/d ) | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(%) | INTERRUPTIBLE<br>CAPACITY<br>(A)<br>(kWh/d )   | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B) (%) |   |   |
| JANUARY   | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| FEBRUARY  | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| MARCH     | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| APRIL     | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| MAY       | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| JUNE      | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| JULY      | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| AUGUST    | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| SEPTEMBER | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| OCTOBER   | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| NOVEMBER  | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |
| DECEMBER  | 1,781,616,600                    | 0  | 1,781,616,600                                | 100%                                    |  |  |  |                                      | 0   |   |

| Interconnection Point*: BACTON ASEP - ENTRY |                                  |  |  |   |  |  |  |   |   | YEAR: 2015  |
|---|----------------------------------|--|--|---|--|--|--|---|---|---|
| Units of measurements: kWh/d                |                                  |  |  |   |  |  |  |   |   |   |
|   | FIRM capacity                    |  |  |   | INTERRUPTIBLE capacity<br>(one sub-table for each category: first,second, third class etc) |  |  |   | PERIOD<br>(i.e. number of days<br>during the month<br>affected by the<br>detailed<br>maintenance) | NATURE OF PLANNED<br>MAINTENANCE<br>(in-line inspection; pipeline<br>works; installation works) |
| Month                                       | FIRM CAPACITY<br>(A)<br>(kWh/d ) | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(%) | INTERRUPTIBLE<br>CAPACITY<br>(A)<br>(kWh/d )   | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(%) |   |   |
| JANUARY                                     | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| FEBRUARY                                    | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| MARCH                                       | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| APRIL                                       | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| MAY   | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| JUNE  | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| JULY  | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| AUGUST                                      | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| SEPTEMBER                                   | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| OCTOBER                                     | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| NOVEMBER                                    | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |
| DECEMBER                                    | 1,783,400,000                    | 0  | 1,783,400,000                                | 100%                                    |  |  |  |   | 0   |   |

\* Please consult also the adjacent TSO's website

Units of measurements: kWh/d

|           | FIRM capacity                    |  |  |   | INTERRUPTIBLE capacity<br>(one sub-table for each category: first,second, third class etc) |  |  |                                      | PERIOD<br>(i.e. number of days<br>during the month<br>affected by the<br>detailed<br>maintenance) | NATURE OF PLANNED<br>MAINTENANCE<br>(in-line inspection; pipeline<br>works; installation works) |
|-----------|----------------------------------|--|--|---|--|--|--|--------------------------------------|---|---|
| Month     | FIRM CAPACITY<br>(A)<br>(kWh/d ) | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(%) | INTERRUPTIBLE<br>CAPACITY<br>(A)<br>(kWh/d )   | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B) (%) |   |   |
| JANUARY   | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| FEBRUARY  | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MARCH     | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| APRIL     | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MAY       | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JUNE      | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JULY      | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| AUGUST    | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| SEPTEMBER | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| OCTOBER   | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| NOVEMBER  | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |
| DECEMBER  | 651,025,263                      | 0  | 651,025,263                                  | 100%                                    |  |  |  |                                      | 0   |   |

\* Please consult also the adjacent TSO's website

Units of measurements: kWh/d

|           | FIRM capacity                    |  |  |   | INTERRUPTIBLE capacity<br>(one sub-table for each category: first,second, third class etc) |  |  |                                      | PERIOD<br>(i.e. number of days<br>during the month<br>affected by the<br>detailed<br>maintenance) | NATURE OF PLANNED<br>MAINTENANCE<br>(in-line inspection; pipeline<br>works; installation works) |
|-----------|----------------------------------|--|--|---|--|--|--|--------------------------------------|---|---|
| Month     | FIRM CAPACITY<br>(A)<br>(kWh/d ) | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(%) | INTERRUPTIBLE<br>CAPACITY<br>(A)<br>(kWh/d )   | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B) (%) |   |   |
| JANUARY   | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| FEBRUARY  | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MARCH     | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| APRIL     | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MAY       | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JUNE      | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JULY      | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| AUGUST    | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| SEPTEMBER | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| OCTOBER   | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| NOVEMBER  | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |
| DECEMBER  | 651,676,940                      | 0  | 651,676,940                                  | 100%                                    |  |  |  |                                      | 0   |   |

\* Please consult also the adjacent TSO's website

| Interconnection Point*: MOFFAT - EXIT |                                  |  |  |   |  |  |  |                                      |   | YEAR: 2015  |
|---------------------------------------|----------------------------------|--|--|---|--|--|--|--------------------------------------|---|---|
| Units of measurements: kWh/d          |                                  |  |  |   |  |  |  |                                      |   |   |
|                                       | FIRM capacity                    |  |  |   | INTERRUPTIBLE capacity<br>(one sub-table for each category: first,second, third class etc) |  |  |                                      | PERIOD<br>(i.e. number of days<br>during the month<br>affected by the<br>detailed<br>maintenance) | NATURE OF PLANNED<br>MAINTENANCE<br>(in-line inspection; pipeline<br>works; installation works) |
| Month                                 | FIRM CAPACITY<br>(A)<br>(kWh/d ) | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(%) | INTERRUPTIBLE<br>CAPACITY<br>(A)<br>(kWh/d )   | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B) (%) |   |   |
| JANUARY                               | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| FEBRUARY                              | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MARCH                                 | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| APRIL                                 | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MAY                                   | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JUNE                                  | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JULY                                  | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| AUGUST                                | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| SEPTEMBER                             | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| OCTOBER                               | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| NOVEMBER                              | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |
| DECEMBER                              | 529,559,828                      | 0  | 529,559,828                                  | 100%                                    |  |  |  |                                      | 0   |   |

\* Please consult also the adjacent TSO's website

**Interconnection Point\*: MOFFAT - EXIT** **YEAR: 2015**

**Units of measurements: kWh/d**

|           | FIRM capacity                    |  |  |   | INTERRUPTIBLE capacity<br>(one sub-table for each category: first,second, third class etc) |  |  |                                      | PERIOD<br>(i.e. number of days<br>during the month<br>affected by the<br>detailed<br>maintenance) | NATURE OF PLANNED<br>MAINTENANCE<br>(in-line inspection; pipeline<br>works; installation works) |
|-----------|----------------------------------|--|--|---|--|--|--|--------------------------------------|---|---|
| Month     | FIRM CAPACITY<br>(A)<br>(kWh/d ) | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(%) | INTERRUPTIBLE<br>CAPACITY<br>(A)<br>(kWh/d )   | PLANNED<br>INTERRUPTION<br>(B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B)<br>(kWh/d ) | REMAINING<br>CAPACITY<br>(A - B) (%) |   |   |
| JANUARY   | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| FEBRUARY  | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MARCH     | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| APRIL     | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| MAY       | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JUNE      | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| JULY      | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| AUGUST    | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| SEPTEMBER | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| OCTOBER   | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| NOVEMBER  | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |
| DECEMBER  | 530,089,918                      | 0  | 530,089,918                                  | 100%                                    |  |  |  |                                      | 0   |   |

\* Please consult also the adjacent TSO's website