

# European Transparency Regulation (ETR / ERGEG) – Industry briefing (02-Apr-2014 session)

Author: NG ETR team

Last Updated: 01-Apr-2014 (V1.1)

# Agenda

---

| Item   | Approximate start time |
|--|------------------------|
| Welcome: Tea and coffee  | 09:30                  |
| 1) Introduction & Objective  | 10:00                  |
| 2) Background  |                        |
| 3) Delivery approach + progress update (NG view and Industry view) |                        |
| 4) Requirements analysis   |                        |
| Lunch:   | 13:00                  |
| 5) Current Issue(s)  | 14:00                  |
| 6) NGET Proposed test strategy and Delivery timeline               |                        |
| 7) Next steps  |                        |
| 8) Feedback on today's session                                     |                        |
| Session end:   | 15:30                  |

# Introduction

---

- Health and safety
- NG team:
  - Alex Haffner – Business Lead
  - Richard Price – Business Lead
  - Daniel Arrowsmith – Business Analyst
  - Melanie Jackson – Business Analyst
  - Julian Dyer – Project consultant
  - Harry Shah – Solutions Architect
  - Kam Siu – Project Manager
- Who's here today?

# Objectives

---

- To provide update on NG approach and progress to deliver P295 (Transparency Regulation) and P291 (REMIT)
- To understand your approach to deliver P295 and P291
- To obtain common understanding on specific requirements
- To discuss proposed test strategy and draft project timeline

# Background

---

- 06-Nov-2013: IS workshop held to discuss ETR implementation with industry participants.
- 05-Dec-2013: Followed by Industry consultation,
- 07-Mar-2014: Post consultation report published setting out the proposed IS solution and the impact on industry parties in respect of new data. Post consultation report can be found at:  
<http://www2.nationalgrid.com/WorkArea/DownloadAsset.aspx?id=31941>
- 02-Apr-2014: Industry briefing and update (this session)
- *May-14: Next briefing (TBC)*
- *Jun-14: Further briefing (TBC)*
- *More!*

## Background – Transparency Regulation

---

- European Commission Regulation No 543/2013<sup>1</sup> came into force on 4<sup>th</sup> July 2013 and requires publication of a common set of data related to electricity generation, consumption and transmission.
- Places obligations on primary data owners to submit information to their TSO for publication on a central European reporting platform managed by ENTSO-E.
- Mandatory go-live date of 4<sup>th</sup> January 2015

## Background – BSC P295 (Transparency)

---

- BSC Modification P295<sup>2</sup> “Submission and publication of Transparency regulation data via the BMRS” was approved by Ofgem on 22<sup>nd</sup> January 2014.
- P295 proposes that all data that NGET is required to submit to the central platform is sent via ELEXON.
  - Some or all of this data will also be published on the Balancing Mechanism Reporting Service (BMRS)
  - Interconnector data is not covered by P295 and is sent directly from Interconnector Administrators to ENTSO-E
- Implementation Date of 16<sup>th</sup> December 2014

## Background – BSC P291 (REMIT)

---

- BSC Modification P291<sup>3</sup> “REMIT Inside Information Reporting Platform for GB Electricity” was approved by Ofgem on 16<sup>th</sup> August 2013.
  
- P291 proposes to introduce a REMIT inside information reporting platform on BMRS with market participants submitting messages to this platform either:
  - through existing Grid Code submissions modified to include additional information; or
  - through the ELEXON Portal
  
- Implementation Date of 31<sup>st</sup> December 2014



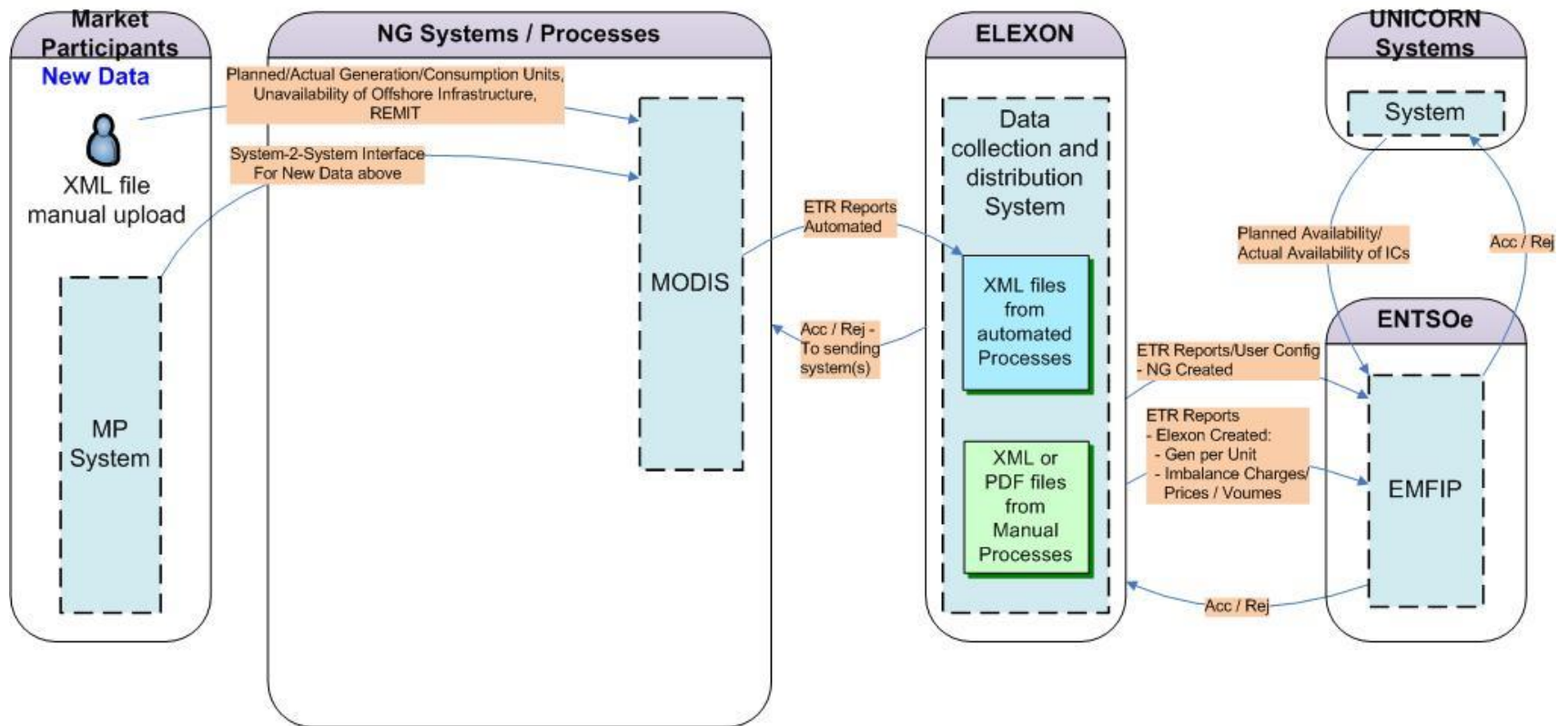
# NG Approach

---

- Single project team to deal with P295 and P291.
- Single solution design for P295 and P291.
- Major design decisions:
  - a) Solution design does not impact any of the existing dataflows from the industry to NGET (e.g. no planned changes for dataflows via EDL and EDT).
  - b) New and existing data required for P291 and P295 will come to a new NGET system. This decision was made based on industry consultation carried out at the end of 2013 and early 2014.

# NG Approach – Data flow

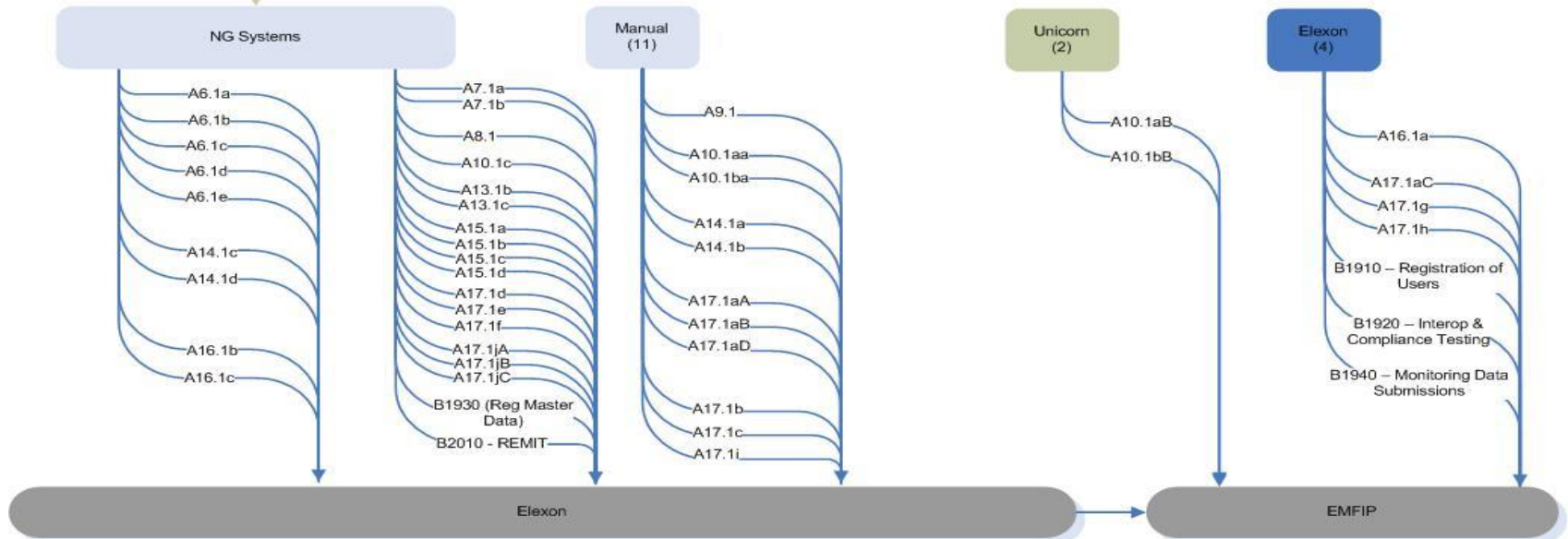
ETR Conceptual Diagram - Industry



# NG Approach – Data Communications

## ETR Data Communications

| New Data from MP |   |
|------------------|---|
| A7.1a            | Planned unavailability of consumption units                     |
| A7.1b            | Changes In Actual Availability of Consumption Units             |
| A10.1c           | Changes In Actual Availability of Off-Shore Grid Infrastructure |
| A15.1a           | Planned Unavailability of Generation Units                      |
| A15.1b           | Changes In Actual Availability of Generation Units              |
| A15.1c           | Planned unavailability of production units                      |
| A15.1d           | Changes In Actual Availability of Production Units              |
| REMIT            | Information on Outages of Generation and Consumption Units      |



## NG Approach – Data Submission methods

---

- NG's Market Operation Data Interface System (MODIS) will simplify data submission by providing the following methods:
  - Data Entry – Manual Data Entry via Graphical User Interface (GUI) Screens.
  - File Upload/FTP – XML file upload via an option on the GUI screen or Option to FTP the XML file.
  - Web Service interface – for system to system data transfers.

# Your Approach? – Discussion session

---



# Break

## Definitions

---

- **Market Time Unit (MTU)** = Settlement Period for GB 30 minutes
- **Generation Unit** = A single registered BMU generation unit belonging to a Production Unit
- **Production Unit** = Production unit is a facility for generation of electricity made up of a single generation (BMU) unit or of an aggregation of generation units
- **Energy Identification Code (EIC)** = Each person operating in the electricity market has a single identifying code assigned only to them
- **Planned Event** = An event known ex ante (not within EDL / EDT timescales) by the primary owner of the data

# ETR article 7.1a analysis

---

- The **planned unavailability** of 100 MW or more of a consumption unit, including changes of 100 MW or more in the planned unavailability of consumption units, lasting at least one market time unit, specifying (*and reported within 1 hr*):
  - *code of consumption unit*
  - *Status “active” / “cancelled”*
  - *Type of unavailability “planned”*
  - *remarks / additional comments*
  - bidding zone
  - available capacity per market time unit during the event,
  - reason for the unavailability,
  - the estimated start and end date (day, hour) of the change in availability
  
- Data is submitted by Market Participants reporting changes to availability to consumption capacity for a consumption unit
  
- **Industry trigger:** Difference of at least 100MW on availability (MIL<sup>1</sup>) not within EDL / EDT timescales
  
- **Industry responsibility** to report accurate validated availability data vs. previous reported availability



## ETR article 7.1b analysis

---

- The changes in **actual availability** of a consumption unit with a power rating of 100 MW or more lasting at least one market time unit, specifying:
  - bidding zone,
  - available capacity per market time unit during the event,
  - reason for the unavailability – “Maintenance”, “Failure”, “Shutdown“ or “other”
  - the start date and the estimated end date (day, hour) of the change in availability
  - bidding zone
  - available capacity per market time unit during the event
  - reason for the unavailability
  - the estimated start and end date (day, hour) of the change in availability
- Data is submitted by Market Participants reporting changes to actual availability to consumption capacity for a consumption unit
- **Industry trigger:** Difference of at least 100MW on availability (MIL<sup>1</sup>) within EDL / EDT timescales
- **Industry responsibility** to report accurate validated availability data vs. previous reported availability

<sup>1</sup> This is an equivalent figure to MIL for a consumption unit, but for the purposes of ETR only

## ETR article 10.1c analysis

---

- The changes in the **actual availability** of off-shore grid infrastructure that reduce wind power feed-in by 100 MW or more during at least one market time unit, specifying:
  - the identification of the assets concerned
  - the location
  - the type of asset
  - the installed wind power generation capacity (MW) connected to the asset
  - wind power fed in (MW) at the time of the change in the availability
  - reasons for the unavailability, “Maintenance”, “Outage”, “External Factors” or “Other”
  - the start and estimated end date (day, hour) of the change in availability
- **Industry trigger:** Difference of at least 100MW on availability (MEL<sup>1</sup>) within EDL / EDT timescales
- **Industry responsibility** to report accurate validated availability data vs. previous reported availability

<sup>1</sup> This is an equivalent figure to MEL for a generation unit, but for the purposes of ETR only

# ETR article 15.1a analysis

---

- The **planned unavailability** of 100 MW or more of a **Generation unit** including changes of 100 MW or more in the planned unavailability of that generation unit, expected to last for at least one market time unit up to three years ahead, specifying:
  - the name of the production unit
  - the name of the generation unit
  - location
  - bidding zone
  - installed generation capacity (MW)
  - the production type
  - available capacity during the event
  - reason for the unavailability “Maintenance”, “Outage”, “External Factors” or “Other”
  - start date and estimated end date (day, hour) of the change in availability
  - Status “Active” / “Cancelled”
- **Industry trigger:** Difference of at least 100MW on availability (MEL<sup>1</sup>) not within EDL / EDT timescales
- **Industry responsibility** to report accurate validated availability data vs. previous reported availability

# ETR article 15.1b analysis

---

- The changes of 100 MW or more in **actual availability** of a **generation unit**, expected to last for at least one market time unit, specifying:
  - the name of the production unit
  - the name of the generation unit
  - location
  - bidding zone
  - installed generation capacity (MW)
  - the production type
  - available capacity during the event
  - reason for the unavailability “Maintenance”, “Outage”, “External Factors” or “Other”
  - start date and estimated end date (day, hour) of the change in availability
- **Industry trigger:** Difference of at least 100MW on availability (MEL<sup>1</sup>) within EDL / EDT timescales
- **Industry responsibility** to report accurate validated outage reports / data vs. previous reported availability

<sup>1</sup> This is an equivalent figure to MEL for a generation unit, but for the purposes of ETR only

## ETR article 15.1c analysis

---

- The **planned unavailability** of a **production unit** of 200 MW or more including changes of 100 MW or more in the planned unavailability of that production unit, but not published in accordance with subparagraph (a), expected to last for at least one market time unit **up to three years ahead**, specifying:
  - the name of the production unit
  - location
  - bidding zone
  - installed generation capacity (MW)
  - the production type
  - available capacity during the event
  - reason for the unavailability, “Maintenance”, “Outage”, “External Factors” or “Other”
  - Status “Active” / “Cancelled”
  - start date and estimated end date (day, hour) of the change in availability
- **Industry trigger:** Change of  $\geq 100$  MW on declared availability (MEL<sup>1</sup>) within EDL / EDT timescales where the generation capacity is  $\geq 200$  MW
- **Industry responsibility** to report accurate validated availability data vs. previous reported availability

<sup>1</sup> This is an equivalent figure to MEL for a production unit, but for the purposes of ETR only

## ETR article 15.1d analysis

---

- The changes of 100 MW or more in **actual availability** of a **production unit** with an installed generation capacity of 200 MW or more, but not published in accordance with subparagraph (b), expected to last for at least one market time unit, specifying:
  - the name of the production unit
  - location
  - bidding zone,
  - installed generation capacity (MW)
  - the production type
  - available capacity during the event
  - reason for the unavailability, “Maintenance”, “Outage”, “External Factors” or “Other”
  - start date and estimated end date (day, hour) of the change in availability
- **Industry trigger:** Change  $\geq 100\text{MW}$  on declared availability (MEL<sup>1</sup>) within EDL / EDT timescales where the registered generation capacity is  $\geq 200\text{MW}$
- **Industry responsibility** to report accurate validated availability data vs. previous reported availability

<sup>1</sup> This is an equivalent figure to MEL for a production unit, but for the purposes of ETR only

# REMIT analysis

---

Reporting of Outages of Generation and Consumption Units of capacity that equals or exceeds 100MW:

- The data includes any planned outage, limitation, expansion or dismantling of capacity of one generation unit, consumption or transmission facility that equals or exceeds 100 MW, including changes of such plans;
- The data also includes any unplanned outage or failure of capacity that equals or exceeds 100 MW for one generation unit, consumption or transmission facility, including updates on such outages or failures.
- It is up to the Owner of the unit/asset having an outage to decide if their information needs to be submitted to National Grid.

The following data items will be required:

- Message Heading
- Affected Unit
- Fuel Type
- Event type
- Cause
- Start and end time and date
- Affected Area
- Normal Capacity
- Available Capacity
- Asset
- Asset Type
- Participant ID
- Duration Uncertainty
- Published Date and Time
- Event Status

# Lunch



## Current issues – EIC data

---

- EMFIP requires EIC in the reports for:
  - Generation (Production units and Generation units)
  - Load (Consumption units)
- Current issues with this are:
  - Do any units have EIC already?
  - Who will request it (NG or Unit owner)?
  - Who will be the issuing authority for GB (LIO)?
  - Who is the owner of the EIC?
  - What is the process of managing the EIC data?
  - Is there a need for an interim setup to comply to ETR timescale?
  - Are code changes needed to facilitate EIC process?

## Current issues – Location of units

---

- EMFIP requires locations of units in the reports.
  - NG proposes to use the address you have provided us through registration.
  - What do you think about this?

## Proposed test strategy

---

- Self test: Each Market Participant (MP) to carry out tests independently on the creation of the new data to send to NGET.
- Integration testing: MP to link up with NGET IS system to carry out system-to-system testing using test files (for those choosing to use the manual data entry method, this would be the same as self test)
- End-to-end testing: Same as Integration testing with automatic datafeed and realistic data.

Note: NGET will choose to conduct end-to-end testing with Elexon during this stage for some MPs.

- Big end-to-end testing: As end-to-end above, but with all MPs. Data will also be processed by Elexon and ENTSO-E.

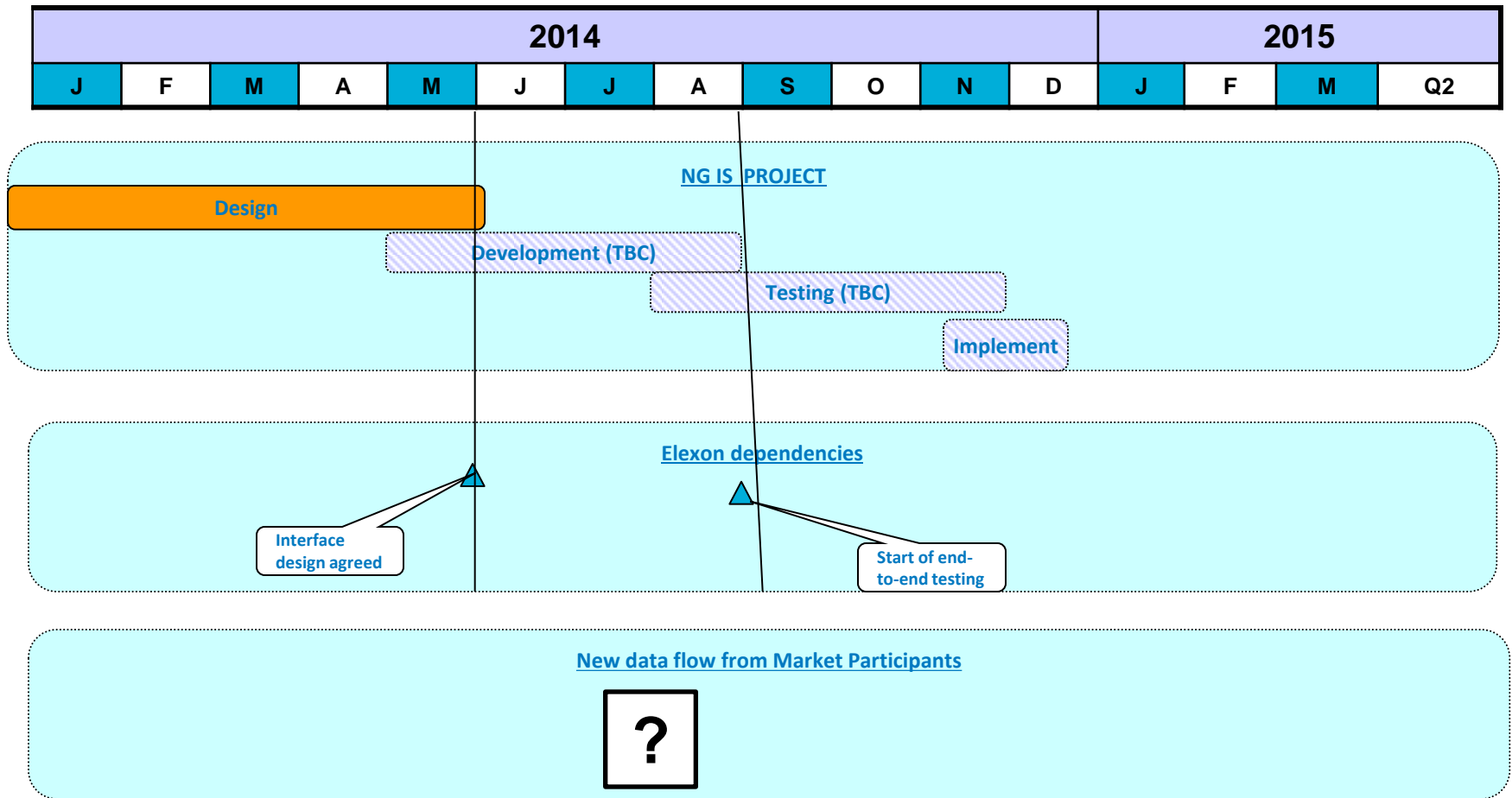
Note: NGET will choose to conduct 2 weeks of soak testing during this stage.

## Draft test timeline

---

- ENTSO-E test platform bookings for test slots from 18-Aug-14.
- Test slots are only required if you want support from ENTSO-E
- Small end-to-end testing is from industry to NG and onto Elexon.
- Big end-to-end testing is from industry to NG and onto Elexon and ENTSO-E

# Draft timeline



## Next steps?

---

- More briefing sessions?
- How to communicate and share ideas centrally? NGET is preparing a website to publish updates – do you agree with this?
- NG primary contacts are:
  - Alex Haffner ([alex.haffner@nationalgrid.com](mailto:alex.haffner@nationalgrid.com))
  - Richard Price ([richard.j.price@nationalgrid.com](mailto:richard.j.price@nationalgrid.com))
  - Melanie Jackson ([melanie.jackson@nationalgrid.com](mailto:melanie.jackson@nationalgrid.com))
  - Kam Siu ([kam.siu@nationalgrid.com](mailto:kam.siu@nationalgrid.com))

Alex Haffner and Richard Price on business related matters.

Melanie Jackson and Kam Siu on IS related matters.

## Feedback on the session

---

- Please let us know how you felt today's session?
- Facilities provided OK?
- Location OK?

*Thank you for coming and have a safe journey home.*

**End**

Last slide