

European Transparency Regulation (ETR / ERGEG) – Industry briefing (12-May-2014 session)

Author: NG ETR team

Last Updated: 12-May-2014 (V1)

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) Interface to NG system for ETR and REMIT data	
Lunch:	13:00
5) Adoption of EIC Codes	14:00
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
 - Julian Dyer – Project Consultant
 - Daniel Arrowsmith – Business Analyst
 - Melanie Jackson – Business Analyst
 - 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 obtain common understanding the industry interface for 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*
- 12-May-14: Industry Briefing / interface update (this session)
- *Jun-14: Further briefing (suggest last week in June)*
- *More!*

Background – Transparency Regulation

- European Commission Regulation No 543/2013¹ came into force on 4th 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 4th January 2015

¹ <http://eurlex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2013:163:0001:0012:EN:PDF>

Background – BSC P295 (Transparency)

- BSC Modification P295² “Submission and publication of Transparency regulation data via the BMRS” was approved by Ofgem on 22nd 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 16th December 2014

2 <http://www.elexon.co.uk/wp-content/uploads/2013/07/P295-Decision-Letter-3.pdf>

Background – BSC P291 (REMIT)

- BSC Modification P291³ “REMIT Inside Information Reporting Platform for GB Electricity” was approved by Ofgem on 16th 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 31st December 2014

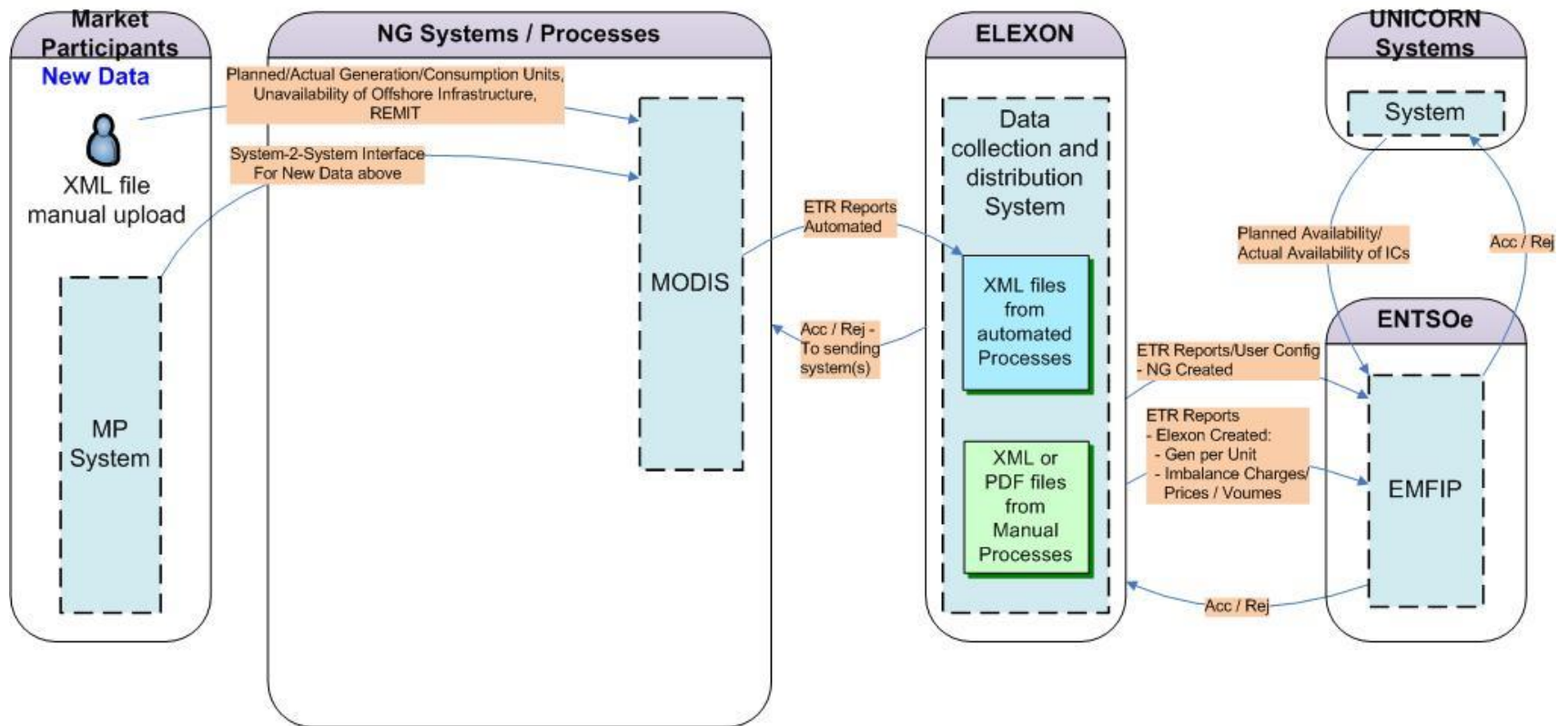
3 <http://www.elexon.co.uk/wp-content/uploads/2013/01/P291-Decision-Letter.pdf>

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

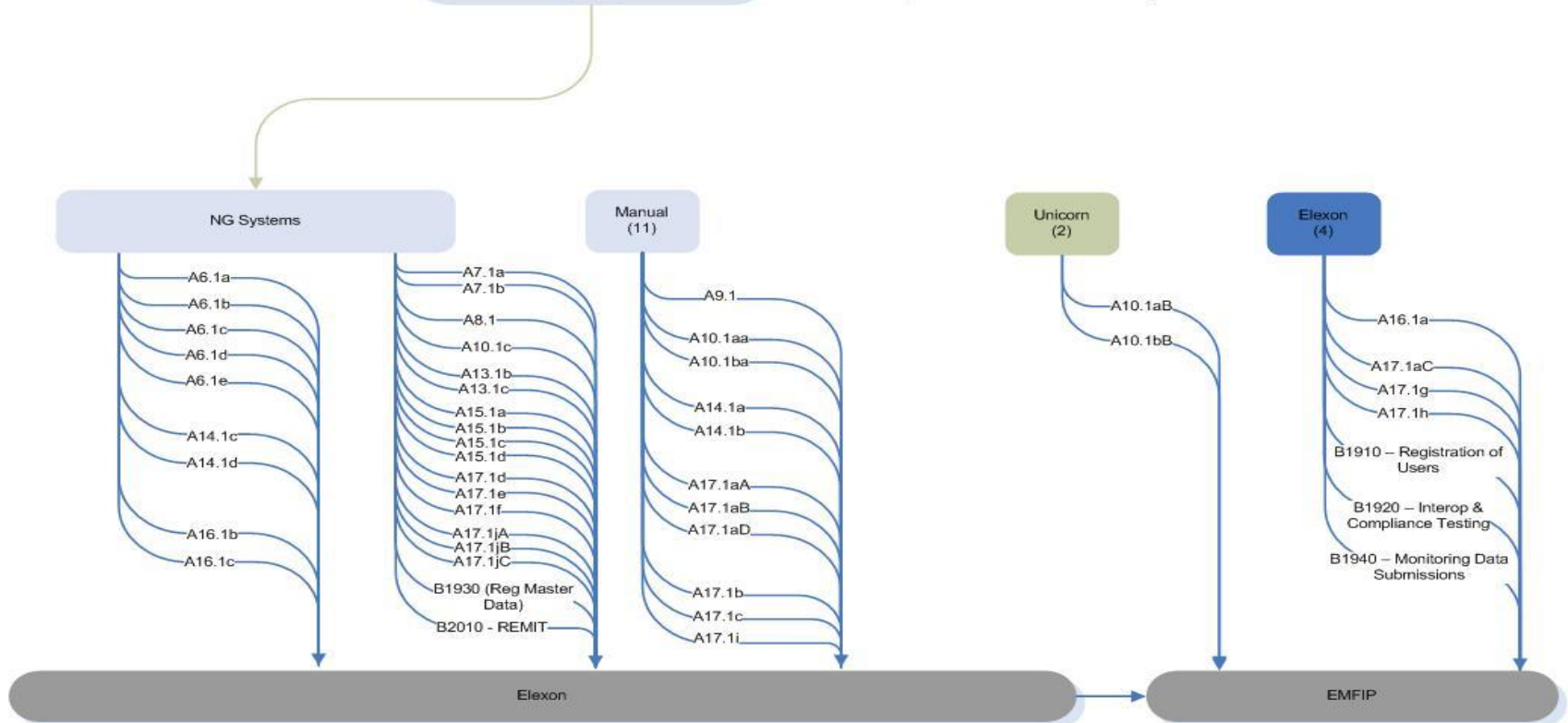
ETR Conceptual Diagram - Industry



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.

Update on Industry feedback from 02 April

- **Q. - Issue identified** ‘How to refine outage data for the EMFIP Platform. As National Grid MODIS solution will pass through data on outages (unavailability), how will this data be refined, to show the historic data around an outage *‘Consider in this how the lifecycle of an outage (unavailability) is to be presented?’*
- **A.** The National Grid MODIS design will not be publishing outage – Availability / Unavailability data
 - ELEXON will publish data with history of outages for REMIT
 - EMFIP will publish data on availability / unavailability for ETR

Update on Industry feedback from 02 April

- **Q. Issue identified** – ‘There will be PV stations constructed in the future that have a 100MW capacity what will the arrangement for these stations?’
- **A.** EFS Changes will include the forecast articles – for availability / unavailability articles – No 100MW stations are planned at time of go-live. Provides an opportunity to learn from European experience
- **Q. Issue Identified** - ‘Does Installed generation capacity align to registered capacity for BMUs?’
- **A.** – Yes BMU registration data will be used for MODIS on registered capacity

Break

Industry interface walkthrough

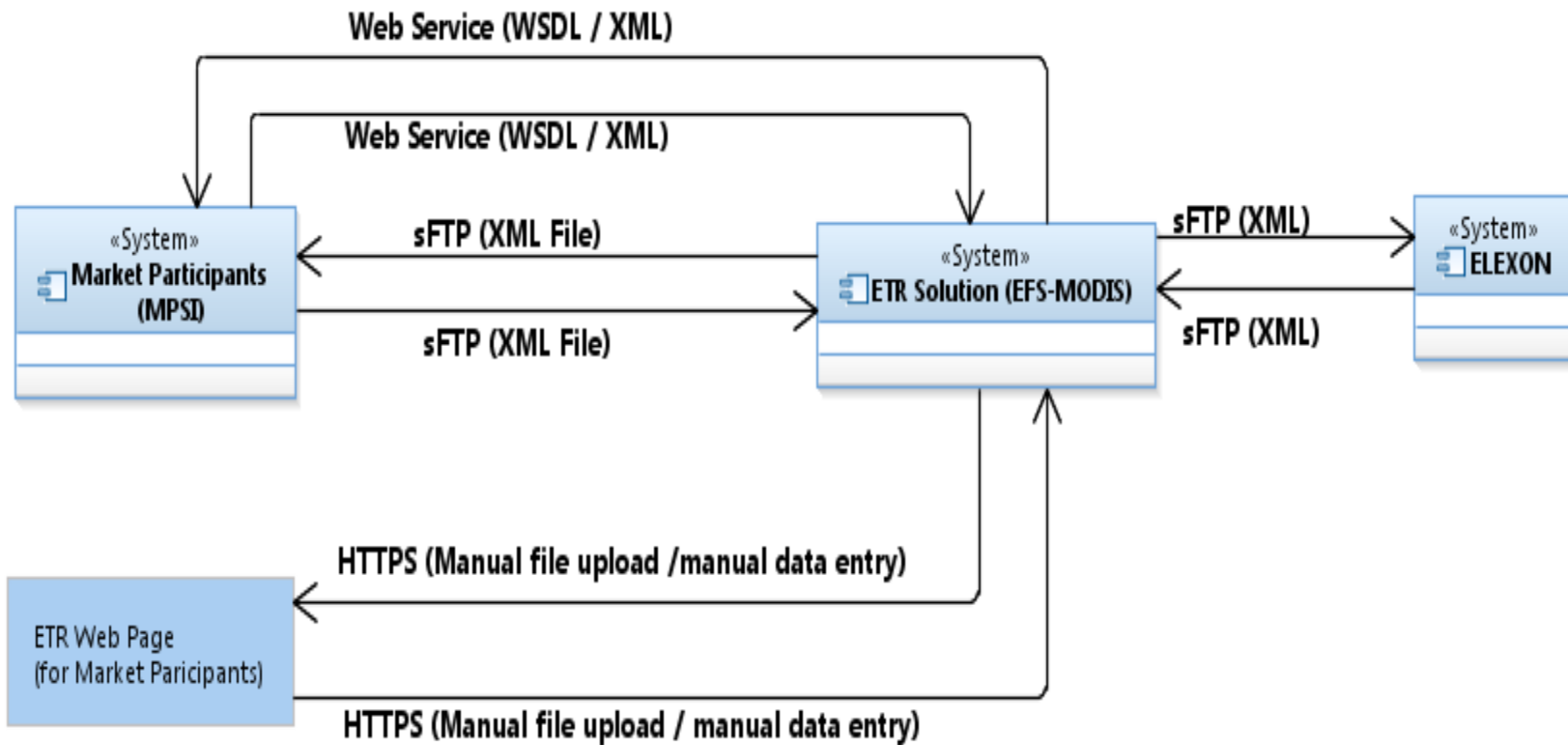
- Business Requirements And Articles
- ETR Interface Communication Types
- Communication Methods
- Response Messages
- Naming Conventions
- Header Information (for all articles)

Business Requirements and Articles

The Market Participants (MPs) are required to provide data for the following ETR Articles and for REMIT:

- A7.1a - Planned unavailability of consumption units
- A7.1b - Actual availability of consumption units
- A10.1c - Unavailability of offshore infrastructure
- A15.1a – Planned Unavailability of Generation Units
- A15.1b - Actual Unavailability of generation unit
- A15.1c - Planned Unavailability of Production Units
- A15.1d - Actual Unavailability of production unit
- B2010 – REMIT - Info on Outages and Generation & Consumption Units

ETR Interface Communication Types



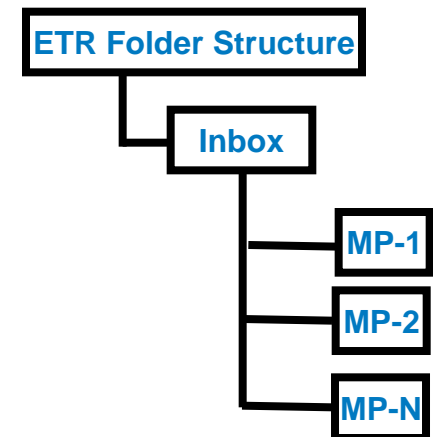
Communications Methods

Major considerations regarding the communication methods:

- Web service (w/s) interfaces
 - WSDL to define the contracts for:
 - Inbound communications on ETR environment (i.e. MODIS)
 - Outbound communications to MP environments.
 - ETR will provide:
 - Services and operations to be invoked for inbound communications.
 - Specific service and operation names to be defined (at the end of design)
 - Messages will include XML payload for reports
 - Market Participants are to provide :
 - Services / operations to be invoked for outbound communications (or responses)
 - *Note: The response messages from ETR will include Acknowledgments, Acceptance or Rejection.*
 - XML communications are to conform to XSDs for reports and responses

Communication Methods - contd.

- Secure File Transfers (sFTP)
 - System to system communications, MPs and NG will need to specify:
 - Source (or outbox) folders– NG will not expose this folder to MPs.
 - Target (or inbox) folders
 - Each MP will have a specific target folder assigned
 - Naming convention will ensure files are unique
- Web Interface
 - Manual data entry through ETR GUI
 - Validation of fields will be against XSDs
 - XML File Upload via ETR GUI
 - MPs will need to specify source and destination folders
 - ETR would require READ access to MP source folders



Response Messages

- Data submitted by MPs for all reports will receive either an:
 - Acknowledgement (i.e. failed check) message due to:
 - Wrong sender information (or EIC code).
 - Invalid file structure.
 - Failed checks could also come from EMFIP to Market Participants.

OR

- Acceptance or Rejection message at the end of processing.
- ETR will provide one of the above responses for:
 - sFTP – using the same method.
 - Web services (WSDL) – using the same method.
- Manual Data Entry/File Upload via ETR GUI
 - Confirmation of receipt for submitted data will be displayed to users.
 - All response messages will be stored within ETR.
 - Viewing capability for responses are yet to be finalised.

Naming Conventions

- Folders
 - Folder names for MPs will be unique
 - Specific names will be agreed or EIC codes will be used.
- Files
 - Convention is:
 - <MP Code>-NGET-<Report Name>-<Sequence Number>-<Revision Number>.
 - MP Code will be 16 character EIC code.
 - Report Name should be abbreviated name not more the 4 characters.
 - Sequence Number is a maximum of 4 numeric characters.
 - Revision should start from 1 and applicable to the same report.
- File example for Planned Unavailability of Consumption Unit (PUCU) from EDF energy:
 - 22XEDF-----Q-NGET-PUCU-0001-1

Header Information (for all articles)

- This is an example of header information / data items for Planned Unavailability of Consumption Unit (7.1a)

Data Item	Definition	Format	Mandatory	Value
mRID	Unique identification of the document being exchanged within a business process flow. All additions, modifications, or suppressions concerning the unavailability must use the same identification	35 Chars	Yes	Data Format = <16 characters EIC Code for MP>-NGET-PUCU-<Sequence Number> . Example : 22XEDF-----Q-NGET-PUCU-0001
revisionNumber	Identification of the version that distinguishes one evolution of a document from another. The elements “mRID” and “revisionNumber” provide the complete identification of a document.	3 Numeric Chars	Yes	Data Format = <nnn> Example : 1
Document Type	The coded type of a document. The document type describes the principal characteristic of the document	3 Alphanumeric Chars	Yes	Example : A76 A76 = Load unavailability

Header Information (for all articles) – contd.

Data Item	Definition	Format	Mandatory	Value
Process Type	The process type identifies the type of processing to be carried out on the information.	3 Alphanumeric Chars	Yes	Example : A26 A26 = Unavailability Information
Create Date Time	The date and time of the creation of the document. The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.	YYYY-MM-DDTHH:MM:SSZ	Yes	Data Format : YYYY-MM-DDTHH:MM:SSZ Example : 2014-03-16T14:32:45Z
Sender Market Participant mRID	The Sender of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required.	3 Alphanumeric Chars for Coding Scheme 16 Alphanumeric Chars for Sender	Yes	Data Format =<Market Participant EIC Code> Example : 22XEDF-----Q
Sender Market Participant Role	This is the code which identifies the role of the sender within the document.	3 Alphanumeric Chars	Yes	Example : A39 A39 = Data Provider

Header Information (for all articles) – contd.

Data Item	Definition	Format	Mandatory	Value
Receiver Market Participant mRID	The Receiver of the document is Identified by the unique Code for Market Participant and a code for the coding scheme used is also required.	3 Alphanumeric Chars for Coding Scheme 16 Alphanumeric Chars for Sender	Yes	Data Format =<National Grid EIC Code> Example : 10X1001A1001A515
Receiver Market Participant Role	This is the code which identifies the role of the receiver within the document.	3 Alphanumeric Chars	Yes	Example : A04 A04 = System Operator or TSO(Transmission System Operator)
Time Interval	The start and end date and time for a given interval. The time interval that is associated with an electronic document and which is valid for the whole document.	YYYY-MM-DDTHH:MM:SSZ	Yes	Example : Start Date =e.g. 2014-03-19T14:32:45Z End Date =e.g. 2014-03-19T15:02:45Z

Header Information (for all articles) – contd.

Data Item	Definition	Format	Mandatory	Value
Document Status	Identification of the condition or position of the document with regard to its standing. It is used to identify an unavailability document that has been withdrawn or cancelled.	3 Alpha Chars	Dependent	Example : A09 or A13 A09= Cancelled A13= Withdrawn Note: This could be blank if the data value is not provided.

Lunch

Current progress – EIC code registration for GB

- EMFIP requires EIC in the reports for:
 - Market Participant (Party – EIC Object Type **X**)
 - Generation / Production units (Resource Object – EIC Object Type **W**)
 - Load (Consumption units (Resource Object – EIC Object Type **W**))
- Current updates:
 - National Grid will provide Generation and Consumption Unit EIC codes to Market Participants
 - National Grid will be the issuing authority for GB (LIO)
- **How we got there?**

Issues presented at April workshop – EIC data

- No current EIC registrations for Consumption and Generation assts – Issues arising from this (required for compliance with P295):
 - Q: Who is the owner of the body issuing EIC for Industry Assets?
 - A: ENSOE guidance: LIOs are electricity Transmission System Operators along with third party associations
- Options considered for this issue and recommendations for go-live:

Option	Impact	Recommendation
Do Nothing (use of BMU names)	What: All submissions, e.g. unavailability submissions for individual articles 7 and 15 of ETR, will not be compliant with the format recognisable by the EMFIP platform	Reject
National Grid / issue LIO codes as part of registration process Contract other LIO (TSO)	What: National Grid updated registration process undertaking a bulk upload process to supply parties registering as BMUs with asset (W type) EIC codes – Benefit: National Grid takes on burden of work for registration of assets of GB Market Participants	Accept
	How: This mapping will be held within the MODIS	Accept

Outline proposal for GB EIC codes post go-live

■ Post go-live operation under BM:

Option	Impact	Recommendation
Do Nothing (use of BMU names)	What: All submissions, e.g. unavailability submissions for individual articles 7 and 15 of ETR, will not be compliant with the format recognisable by the EMFIP platform	Reject
National Grid / issue LIO codes as part of registration process Contract other LIO (TSO)	What: National Grid updated registration process to supply parties registering as BMUs with asset (W type) EIC codes	Accept
	How: This mapping will be held within the MODIS	Accept

■ Proposed model for operation under EBS:

Option	Impact	Recommendation
Establish new process for EBS	Opportunity to use EIC code asset (W) identification included in EBS system design Solution will fit with to-be EBS model of self registration of asset and submitter EIC codes accepted as part of EBS registration processes, administered by TSO (recommendation from ENTSO-E)	Accept
Continue with process of registering assets outside BM/EBS	Process is not integrated to new EBS system; during the implementation	Reject

European Network code website

The screenshot shows a Windows Internet Explorer browser window displaying the National Grid website. The address bar shows the URL: <http://www2.nationalgrid.com/uk/industry-information/europe/>. The page features the National Grid logo and navigation links for Corporate, UK, US, and Media. A search bar is present, and a menu is open under 'Industry information'. The main content area is titled 'Europe' and contains text about EU energy legislation and a photograph of the European Parliament.

Europe | National Grid - Windows Internet Explorer

http://www2.nationalgrid.com/uk/industry-information/europe/

File Edit View Favorites Tools Help

Europe | National Grid

nationalgrid Corporate | UK | US | Media

Home ▶ Our services ▶ Our company ▶ In your area ▶ **Industry information** ▶ Careers ▶ Contact us ▶

Europe


Industry information

- Domestic gas customer satisfaction survey
- Gas Commercial Frameworks
- Gas Distribution Shipper information
- Gas capacity methodologies
- Gas Transmission operational data

National Grid is fully aware of the increasing importance of the EU in terms of energy legislation. Over the past few years there has been substantive change to European energy legislation. This is now poised to deliver real improvements to the European energy markets, and this will have a direct impact on the way that our gas & electricity markets operate.

The ongoing development of harmonised European energy rules is only one aspect of EU legislation that will impact our gas & electricity markets. From gas security of supply to energy efficiency, EU energy legislation will continue to have a greater impact on how we do business in the future. The following Europe based pages provides National Grid with a platform to provide information to customers and stakeholders on the vitally important topic of Europe.

We hope you find these pages useful and informative, and as always your feedback is appreciated.



ETR / REMIT Implementation website

The screenshot shows a Windows Internet Explorer browser window displaying the National Grid website. The browser's address bar shows the URL: <http://www2.nationalgrid.com/UK/Industry-information/Europe/Transparency-Regulation-Electricity/>. The browser's title bar reads "Transparency Regulation - European Commission Regulation No 543/2013 | National Grid - Windows Internet Explorer".

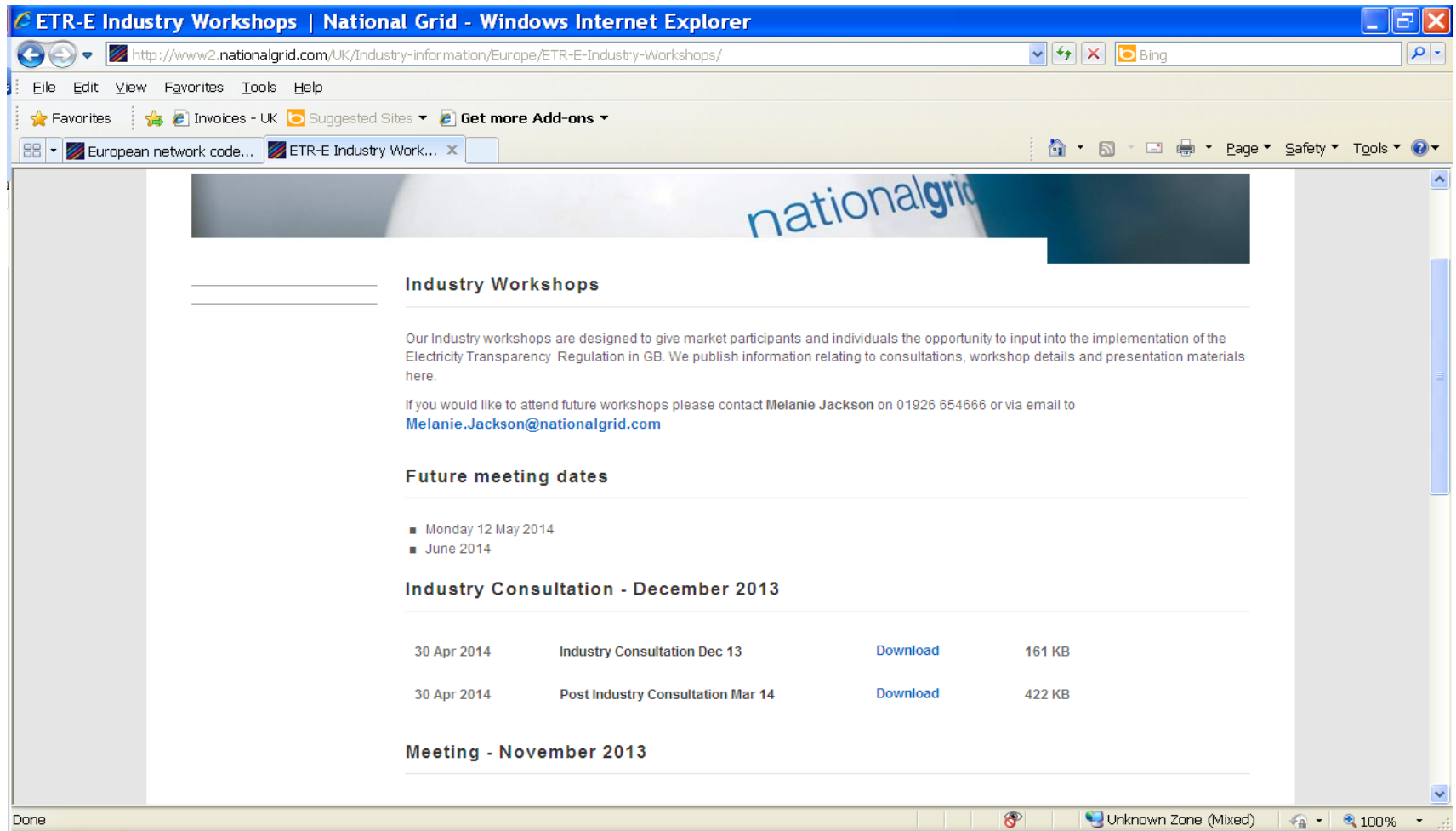
The website header features the National Grid logo on the left and navigation links for "Corporate", "UK", "US", and "Media" on the right. A search bar is located below the navigation links. A horizontal menu contains the following items: Home, Our services, Our company, In your area, Industry information, Careers, and Contact us.

The main content area features a large banner image with the National Grid logo. Below the banner, the page title is "Transparency Regulation - European Commission Regulation No 543/2013". The text below the title reads: "The Commission Regulation (EU) No 543/2013 of 14 June 2013 on submission and publication of data in electricity markets makes European electricity market information more precise and comparable. It will become mandatory for each TSO to submit fundamental information related to generation, load, transmission and electricity balancing which ENTSO-E will publish on a future Central Information **Transparency Platform**. A copy of European Transparency Regulation can be viewed [here](#)." Below this text, it states: "Information on ENTSO-E transparency work is available [here](#)."

At the bottom of the page, there are two columns of information. The left column is titled "MODIS updates" and contains the text: "Latest information on the development of the Market Operation Data Interface System (MODIS)" and a link for "More information". The right column is titled "Industry Workshops" and contains the text: "This section contains information from Workshops and Industry Consultations" and a link for "More information".

The browser's status bar at the bottom shows "Unknown Zone (Mixed)" and "100%".

ETR / REMIT Workshop contact website



The screenshot shows a Windows Internet Explorer browser window. The title bar reads "ETR-E Industry Workshops | National Grid - Windows Internet Explorer". The address bar shows the URL "http://www2.nationalgrid.com/UK/Industry-information/Europe/ETR-E-Industry-Workshops/". The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help), a Favorites bar, and a toolbar with icons for home, back, forward, print, page, safety, and tools. The main content area features a large banner image with the "nationalgrid" logo. Below the banner, the page is organized into sections:

Industry Workshops

Our Industry workshops are designed to give market participants and individuals the opportunity to input into the implementation of the Electricity Transparency Regulation in GB. We publish information relating to consultations, workshop details and presentation materials here.

If you would like to attend future workshops please contact **Melanie Jackson** on 01926 654666 or via email to Melanie.Jackson@nationalgrid.com

Future meeting dates

- Monday 12 May 2014
- June 2014

Industry Consultation - December 2013

30 Apr 2014	Industry Consultation Dec 13	Download	161 KB
30 Apr 2014	Post Industry Consultation Mar 14	Download	422 KB

Meeting - November 2013

The status bar at the bottom of the browser shows "Done" and "Unknown Zone (Mixed)" with a 100% zoom level.

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)
 - Richard Price (richard.j.price@nationalgrid.com)
 - Melanie Jackson (melanie.jackson@nationalgrid.com)
 - Kam Siu (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