

Accessing energy data

We will start at 11.02 to allow participants to finish previous meetings and join the call

Slido.com
#GT4

Welcome and Opening

Thank you for joining us today

Mark Lissimore
Director of Construction



Who will be speaking?

Rachel Hinsley

Operational Liaison &
Business Delivery Manager



Tony Shannon

Project Lead



Nera Lenden

Customer & Stakeholder
Business Partner



Logistics



Should last for approximately about 60 min



Questions and polling via slido.com #GT4



All callers will be placed on mute



We will circulate the slides and a recording of this webinar

Agenda

1. MIPI Back to Basics

2. Information Provision Landscape

3. New Information Provision Project

4. Your Feedback

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MIPI Back to Basics



What is MIPI?

- MIPI (Market Information Provision Initiative) is the **web-based information platform** that serves market participants with a wide-ranging view of **Gas Transmission Operational Data**.
- Data is managed by Gas Transmission and is available via the **Transmission Operational Data Webpage** on our Website
- The data is made available in **multiple different formats** on different sections of the MIPI Platform including:



Prevailing View

Data Item Explorer

Report Explorer

API

Instantaneous Flows

Prevailing View

- Our Prevailing View website is the place to go for a more **visual** view of some of our **key live operational data**
- It provides a **snapshot of real time data** and associated contextual data that at a very high level shows the current status of the National Transmission System (NTS)
- Data is **prioritised** based on the value to you; what information is most useful

A link to our prevailing view website can be found [here](#)

Gas Prevailing View | Report Explorer | Data Item Explorer | Links

Gas Day: 18 FEBRUARY 2021
Gas System and Market Status
ANS Message
There are no ANS messages.

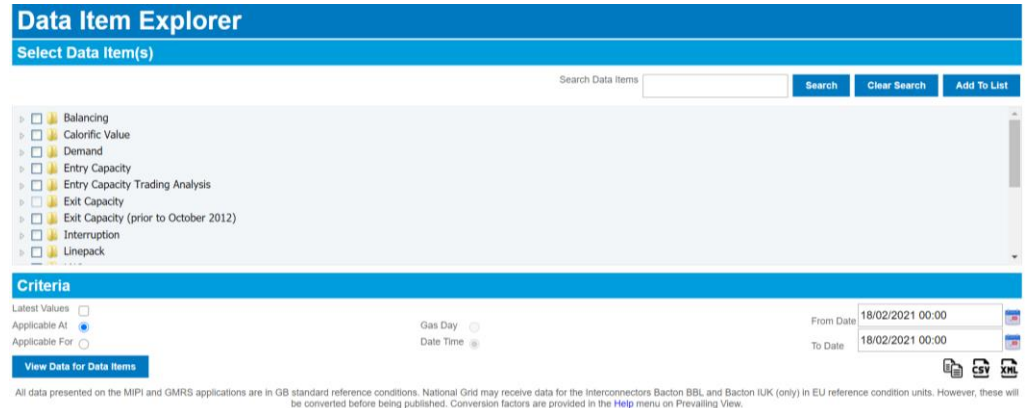
TODAY: 18 FEBRUARY 2021
Gas Balancing Notifications
Margins Notice Trigger
443.00 mcm
Demand Forecast
252.60 mcm

TOMORROW (D+1): 18 FEBRUARY 2021
Gas Balancing Notifications
Margins Notice Trigger
Demand Forecast

IT Systems message
There are no IT system messages.

Data Item Explorer

- Our data item explorer is a **library of all of the data** that we publish via our MIPI platform
- On the data item explorer, you can find much more **detailed data** with individual data items available categorized by their subject matter
- The data on our data item explorer goes back **historically for 5 years for each data item** unless the data item was introduced less than 5 years ago



The screenshot displays the 'Data Item Explorer' web interface. At the top, there is a blue header with the title 'Data Item Explorer' and a sub-header 'Select Data Item(s)'. Below this is a search bar with the placeholder text 'Search Data Items' and buttons for 'Search', 'Clear Search', and 'Add To List'. The main content area shows a list of categories with expandable icons (plus signs) and checkboxes:

- Balancing
- Calorific Value
- Demand
- Entry Capacity
- Entry Capacity Trading Analysis
- Exit Capacity
- Exit Capacity (prior to October 2012)
- Interruption
- Linepack

Below the list is a 'Criteria' section with various filters:

- Latest Values
- Applicable At (selected)
- Applicable For
- Gas Day
- Date Time
- From Date: 18/02/2021 00:00
- To Date: 18/02/2021 00:00

At the bottom left, there is a blue button labeled 'View Data for Data Items'. At the bottom right, there are icons for PDF, CSV, and XLS. A small disclaimer at the very bottom states: 'All data presented on the MIPI and GMRS applications are in GB standard reference conditions. National Grid may receive data for the Interconnectors Bacton BBL and Bacton IUK (only) in EU reference condition units. However, these will be converted before being published. Conversion factors are provided in the Help menu on Prevailing View.'

A link to our data item explorer can be found [here](#)

Report Explorer

- Our report explorer provides data in several **pre-defined report** formats that are categorized according to publication schedule.
- The data is limited to a **singular gas day or month** on this page which can be dictated by the user

Report Explorer

Select Report

Search Report **Search** **Clear Search**

Reports

- ▢ Daily Summary Report (DSR)
- Energy - Daily Reports
- Energy - Monthly Reports
- Entry Capacity - Daily Reports
- Exit Capacity - Daily Reports

Criteria

Gas Day

View Report

A link to our report explorer can be found [here](#)

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API

- We also provide a **Pull API** (Application Programming Interface) Service for our data (data item explorer and instantaneous flows)
- This service **allows users to write their own code** and select the data items they are interested in downloading from our website

Details of how to set this up can be found here:

- Data Item Explorer: [here](#)
- Instantaneous Flows: [here](#)

nationalgrid
Public SOAP Service

This API offers access to all published information by publication object data item. In general, 5 years of rolling historic data can be accessed for most publication object data items, however, some items may have less than 5 years of historic data if publishing was introduced within the last 5 years.

The request object accepts query parameters controlling the response.

Parameter Name	Title	Description
LatestFlag	String	When set to "Y" only return the latest values published per gas day, otherwise all data published will be returned. Expected values "Y" or "N".
ApplicableForFlag	String	When set to "Y" the supplied From and To restriction values are restricting the Applicable For date, when set to anything else they are applied to the Applicable At date time. Expected values "Y" or "N".
FromDate	DateTime	Date time to apply as the From value in Applicable restriction.
ToDate	DateTime	Date time to apply as the To value in Applicable restriction.
DateType	String	Controls whether date restriction applies to Gas day or Calendar day. When set to "GASDAY" then the timestamp for FromDate will be defaulted to the start of the gas Day and timestamp for ToDate will be defaulted to the end of the Gas Day. Expected values "NORMALDAY" or "GASDAY".
PublicationObjectNameList	String Array	List of publication object data item names. These values can be found by reading the published API data item list .

When executed all published values matching the query parameters are returned grouped by Publication Object Name with the following fields of data.

Field Name	Description
ApplicableAt	Date and time for which this data is applicable at.
ApplicableFor	Date and time indicating the gas day for which this data is applicable for.
Value	The data item value. Note this can be character or numeric, character values have a maximum length of 2000 characters.
GeneratedTimeStamp	Date and time on which this data was generated.
QualityIndicator	String value indicating any quality markers against the data. Expected values: "E" Expired, "A" Amended, "C" Corrected, "S" Substituted, "L" Late Received.
Substituted	String value indicating the dat has been substituted. Expected values: "Y" Yes, "N" No.
CreateDate	Date and time on which this data was published.

Instantaneous Flows

- The Instantaneous Flows Report allows users to **access real time flow data** for system entry points.
- The information in this report is **captured every 2 minutes** and published at 12 minute intervals

[Printer friendly version](#)

Instantaneous Flows into the NTS

Current Gas Day : Thursday, 18-Feb-2021

All data presented on the MIPI and GMRS applications are in GB standard reference conditions. National Grid may receive data for the interconnectors Bacton BBL and Bacton IUK (only) in EU reference condition units. However, these will be converted before being published. Conversion factors are provided in the 'Help' menu on Prevailing View.

		Instantaneous Flows (mcm/day)					
System Entry Name		08:48	08:50	08:52	08:54	08:56	08:58
Zone Supply	ALDBROUGH	0.00	0.00	0.00	0.00	0.00	0.00
	BACTON BBL	0.00	0.00	0.00	0.00	0.00	0.00
	BACTON IC	3.06	3.06	3.06	3.06	3.06	3.06
Entry Zone Graphs	BACTON PERENCO	11.00	11.09	11.17	11.00	11.09	11.11
	BACTON SEAL	11.40	11.41	11.33	11.33	11.27	11.34
	BACTON SHELL	3.24	3.24	3.24	3.24	3.24	3.24
User Defined Download	EASINGTON DIMLINGTON	4.63	4.67	4.64	4.64	4.56	4.65
	EASINGTON LANGELED	65.43	65.74	65.42	65.56	65.48	65.32
	EASINGTON ROUGH ST	2.17	2.16	2.16	2.18	2.20	2.27
	GRAIN NTS 1	8.64	8.76	8.62	8.63	8.46	8.64
	GRAIN NTS 2	17.28	17.04	17.01	17.29	17.30	17.32
	HILLTOP	0.00	0.00	0.00	0.00	0.00	0.00
	HOLE HOUSE FARM	0.00	0.00	0.00	0.00	0.00	0.00
HOLFORD	0.00	0.00	0.00	0.00	0.00	0.00	
HORNSEA	0.00	0.00	0.00	0.00	0.00	0.00	
MILFORD HAVEN - DRAGON	18.04	18.11	18.27	18.13	18.13	18.08	

A link to instantaneous flows page can be found [here](#)

Top Reports/Data

- MIPI received around **6 million hits for data** via our API in October
- The **most popular reports** include:
 - Forecast Demands (SISR03)
 - Instantaneous Flows

Forecast Demands

Gas Day: 16/11/2022

Date/ time forecasts were made: 16/11/2022 23:58

LDZ	Demand (mscm)
East Midlands	17.000
Eastern	12.000
North East	10.143
North Thames	13.400
North West	18.700
Northern	8.241
Scottish	12.900
South East	14.500
South West	8.280
Southern	10.600
Wales North	1.680
Wales South	5.550
West Midlands	12.700
Total	145.694

BAU Enhancements

- As well as our projects we are continually **assessing smaller, incremental enhancements** that can be made to our systems
- Examples include **recent changes** to Prevailing View with Margins Notice and Demand Forecast data for week ahead, Interconnector instantaneous demands, and time-based instantaneous flows

Forecast Margins Notice and Demand D-2 to D-7

Date	17/11	18/11	19/11	20/11	21/11	22/11
Margins Notice	522	522	522			
Demand Forecast	250	275	268			

To view the Daily Margins Notice Report please visit the [Margins Notice](#) page on our website

Interconnector Export	Instantaneous Flows (mcm/day)					
	09:12	09:14	09:16	09:18	09:20	09:22
Interconnector Export Totals						
Bacton BBL Export	15.30	15.30	15.30	15.37	15.37	15.42
Bacton INT Export	0.00	0.00	0.00	0.00	0.00	0.00
Moffat Export	17.86	17.93	17.98	17.95	17.98	18.06

Gas Transmission



Quick Poll

Are there any minor/quick changes you would like to see on MIPI?

2

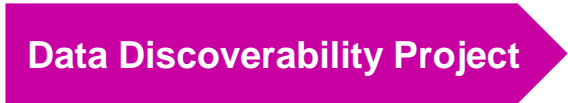
Information Provision Landscape



Poll Result

Are there any minor/quick changes you would like to see on MIPI?

Information Provision - Future Projects



Potential future changes:

- API solution
- Replace data item and report explorer
- Updating data to Metadata Standards

Data Triage Process

- A centralised **data request form** is hosted on the ENA Website: [Here](#)
- You can still **request directly** through Networks including National Grid Gas Transmission via: box.operationalliaison@nationalgrid.com



ena
energynetworks
association

Data Request Form

You can use this form to request any type of data from UK energy network operators.

This request form is in the Proof of Concept phase - data will not currently be delivered as part of this request process.

Energy Networks Association processes these requests on behalf of the Data and Digitalisation Steering Group to gather insights into a standardised approach for handling data requests. The information you provide is managed in line with our privacy practices (<https://www.energynetworks.org/02beacv/policy>)

Please note that this request form does not allow you to save progress and continue later.

If you are having difficulties completing this form, please contact Eirna Theodorou at eirna.theodorou@energynetworks.org.

* Required

Requester Information

Please provide details about yourself and your organisation.

1. Full Name *

Data made Available via the Data Triage Process

- We have already **made additional data available** via the Data Triage Process
 - Historical Supply and Demand Data
 - Compressor Information
- We **welcome additional requests** for data
- All of the information is available on the Gas Transmission Open Data Triage webpage: [here](#)

Gas Transmission Open Data Requests

In line with our Data and Digital Strategy and the Modernising Energy Data Strategy from the Energy Networks Association, we have created this webpage to share any new information and data that is made available as part of the new Industry-wide data triage process.

Is there any data that you would like to see which is not currently available?

If you are not sure who the right network is to provide this data then please request for the data using the ENA data request template <https://www.energynetworks.org/creating-tomorrows-networks/modernising-energy-networks-data> and they will ensure your request gets passed through to the relevant network. If there is any data relating to the National Transmission Network that you would like to be made available then you can contact us at the following email address: box.operationaliaison@nationalgrid.com and we will assist you with your data request.

Enquiries

If you have an enquiry about gas transmission open data requests, please contact the Gas Operational Liaison Team Monday - Friday, 09:00-16:30.

- 01926 656 474
- box.operationaliaison@nationalgrid.com

All of the information is available on the Gas Transmission Open Data Triage webpage: [here](#)

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New Information Provision Project

▶ Gas
Transmission



Transformation project - outline

What



MIPI is a portal that provides historic gas data

Why



The portal needs to be updated and improved for all persona groups

When



The upgrade project is running from Apr 22 to test and delivery in Apr 23

Who



All persona groups have been involved in setting the scope for improvement

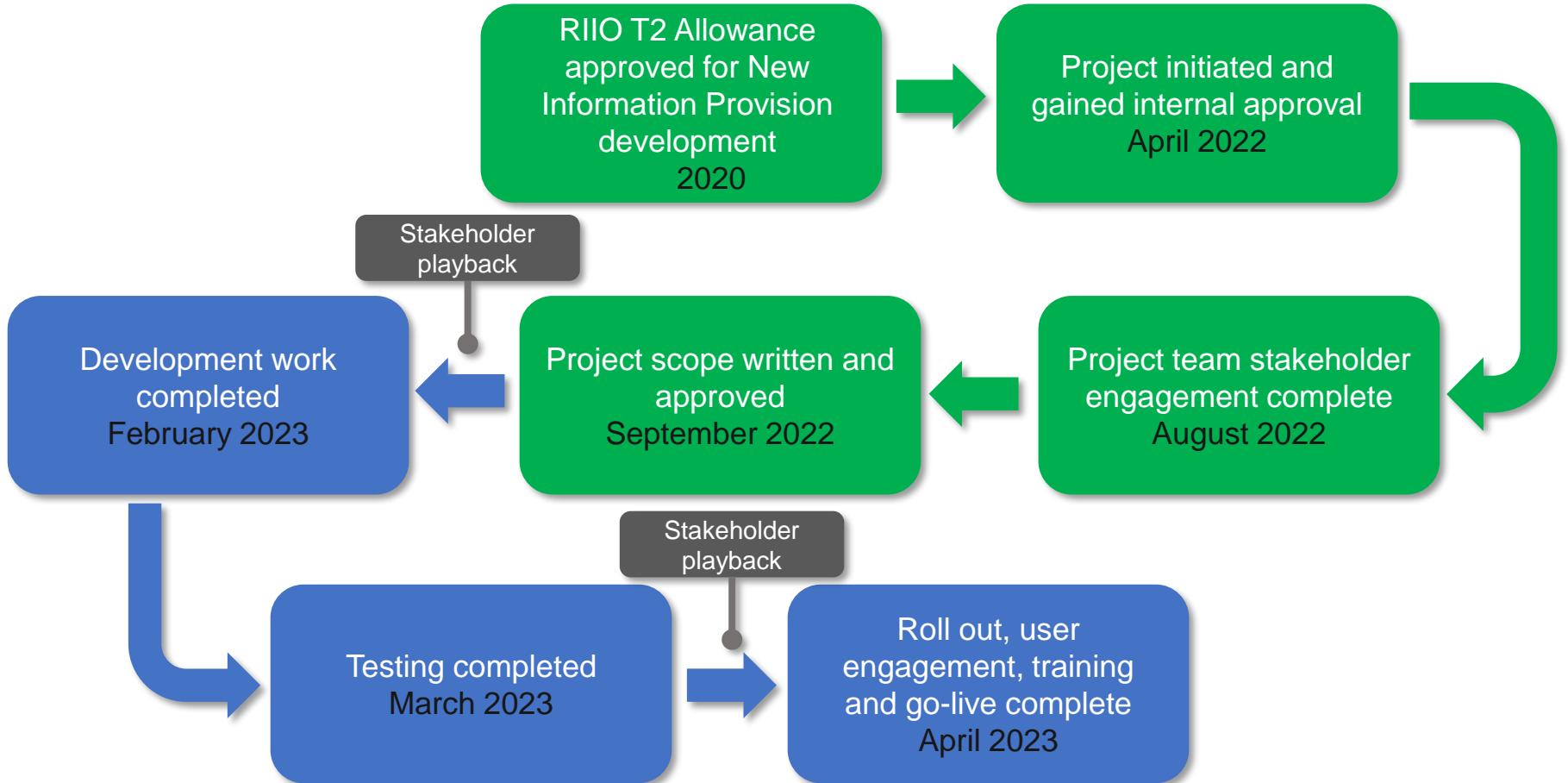
How



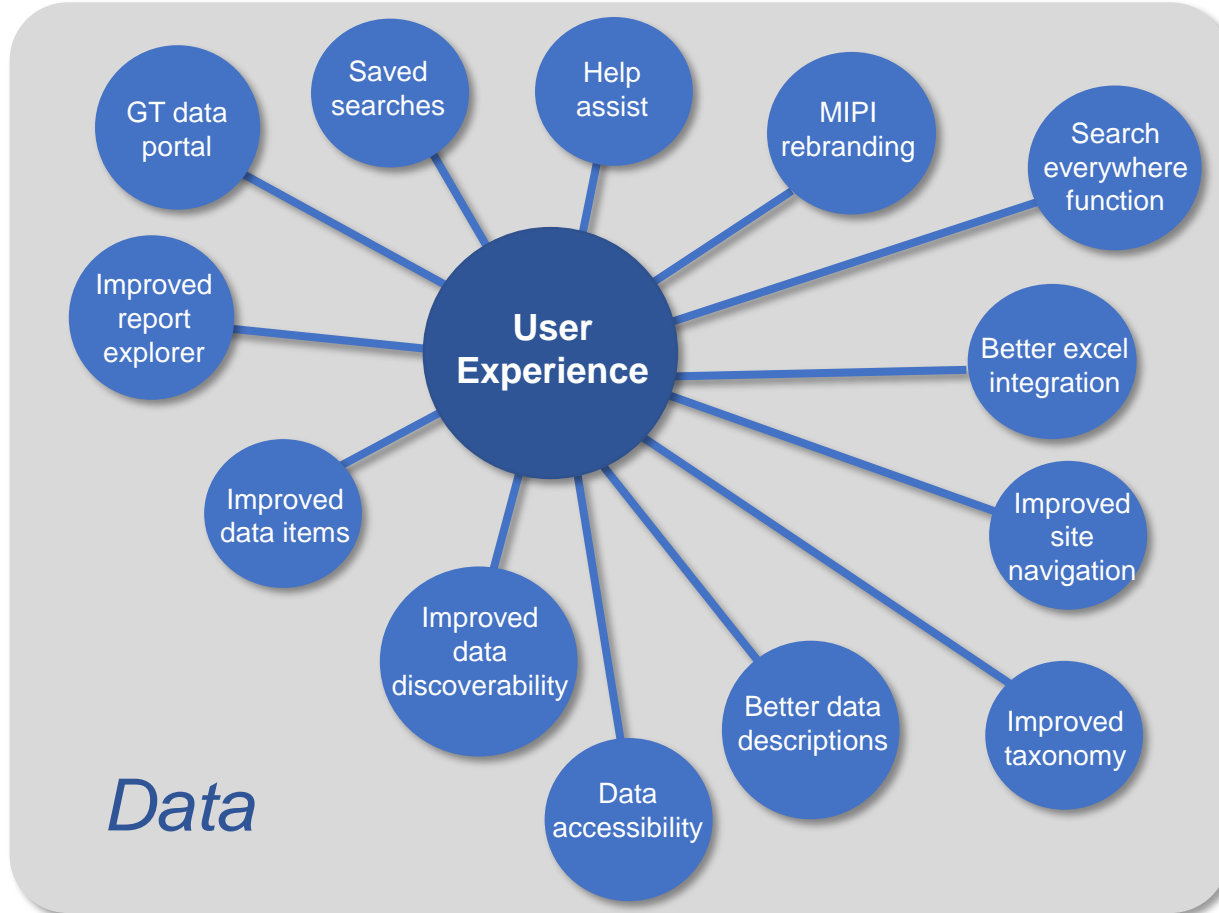
Development team within National Grid

Making our data portal more intuitive, useful, organised and configurable

Transformation programme - roadmap



Transformation programme – deliverables



Stakeholder engagement April to August 2022:

Webinars
Workshops
Survey e-mails
Questionnaires

Quick Poll

Do you agree with what's on our plan? Is there anything else you would like us to incorporate?

Poll Result

Do you agree with what's on our plan? Is there anything else you would like us to incorporate?

Questions



Webinar Programme

<https://ngrid.com/3ESgN1t>



Event Name	Date / Time	Presenters
Facilitating Commercial & Regulatory Change	Tuesday 29th November @ 09:30	Ian Radley, System Operations Director
Sustainable Construction	Wednesday 30th November @ 09:00	Mark Lissimore, Construction Director
Accessing Energy Data	Thursday 1st December @ 11:00	Mark Lissimore, Construction Director
Operating the Network	Friday 2nd December @ 13:00	Ian Radley, System Operations Director
Blending	Monday 5th December @ 10:00	Tony Green, Hydrogen Director
Transitioning to 100%	Tuesday 6th December @ 11:00	Martin Cook, Commercial Director
Hydrogen Regulatory Framework	Wednesday 7th December @ 12:00	Tony Nixon, Regulation Director
Monitoring and Mitigating Methane Emissions	Thursday 8th December @ 13:00	Steven Vallender, Asset Director
Future of Heat	Friday 9th December @ 13:30	Tony Green, Hydrogen Director
FutureGrid - Progress Report	Monday 12th December @ 14:00	Tony Green, Hydrogen Director
Innovation	Tuesday 13th December @ 13:00	Tony Green, Hydrogen Director
Driving a Positive Environmental & Community Impact	Wednesday 14th December @ 10:00	Jake Tudge, Corporate Affairs Director

What next?



You will receive the recording and material from today's session



If you have any further questions or would like to discuss anything specific please get in touch with nera.lenden@nationalgrid.com



Feedback is important to us, therefore if you have not already taken part, we would like to put you forward for a survey

Thank you for joining us





Gas

Transmission