# A Guided Tour of the Gas Information Available on Our Website



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### **Agenda**

#### **Our Data Provision**

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What is MIPI?

**Prevailing View** 

The Explorers

Instantaneous Flows

Other Data Provision

**API Service** 

#### Communication

**Operational News** 

Subscription Service

**GB REMIT** 

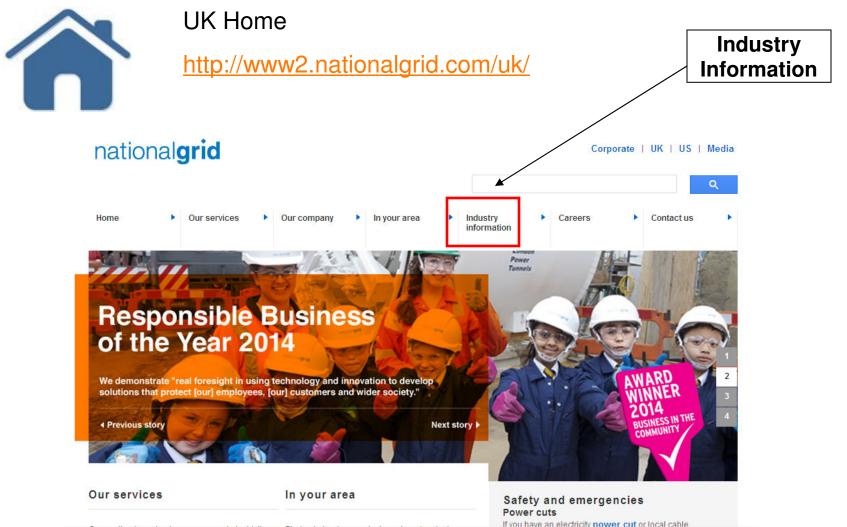
Operational Forum

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#### **Find our Data**



#### **Find Our Data**

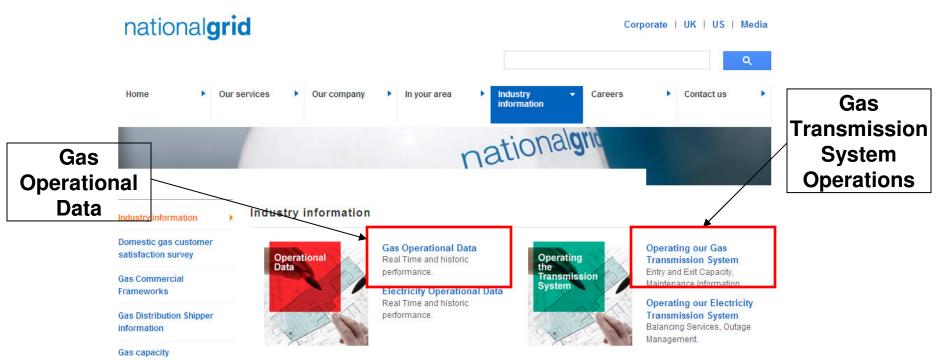


#### **Find Our Data**



UK Home > Industry Information

http://www2.nationalgrid.com/UK/industry-information/



#### **Find Our Data**



UK Home > Industry Information > Gas Transmission Operational Data

http://www2.nationalgrid.com/UK/Industry-information/Gas-transmission-operational-data/

- Market Information and Instantaneous Flows
- News, Other Reports & Help



UK Home > Industry Information > Gas Transmission System Operations

http://www2.nationalgrid.com/UK/Industry-information/Gas-transmission-system-operations/

- Balancing, including Gas Deficit Warnings
- Capacity, Maintenance, Gas Quality, Emergency, Forums and much more!

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#### What is MIPI?



#### What is MIPI?

#### Market Information Provision Initiative

- Serves gas market participants with a wide-ranging view of data relevant to the operational behaviour of the gas network.
- National Grid is obliged to deliver this data without restriction under EU law.
  - MIPI is a business critical system.
- There are 2 publication services; GMRS and MIPI.
  - GMRS (Gas Market Reporting System) Instantaneous Flows
  - MIPI Market Information data



#### **Operational Data**

# **Gas Transmission Operational Data**

- Prevailing View
- Data Item Explorer
- Report Explorer
- Instantaneous Flows



#### Gas Transmission Operational Data

Welcome to the operational data site which contains Gas Transmission data for industry analysts. These pages provide access to operational data for all industry stakeholders.

This site is designed to reduce market uncertainty, reinforce equal access to information, and increase information transparency, facilitating efficiency in the capacity and energy markets whilst providing equitable and timely access to its operational and market information.



#### **Prevailing View**

A snapshot of real time data and associated contextual data that provides a high level overview of the current status of the NTS.

Hover over the data items to see the definition, frequency of updates and units of measure.

#### Get In Touch



For queries regarding this data contact us.

Call on 01926 656474

Monday - Friday 09:00-16:30

or submit your query via email.

#### **Gas Transmission Operational News**

03 Jan 2014 NTS Exit Flex Utilisation Report

#### **Operational News**



 http://www2.nationalgrid.com/UK/Industry-information/Gas-transmissionoperational-data/

#### **Data Source**

- The data presented in the Operational Data section is fed by a number of source systems that contain commercial and operational data.
- New sites are configured in both applications in readiness for their 'first gas' date to ensure a full suite of reporting.



#### **Application Refreshes**

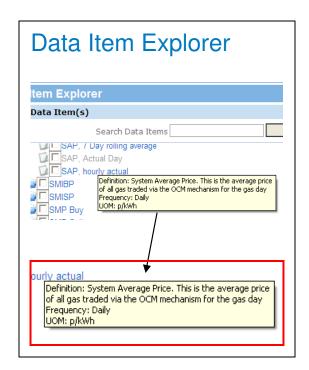
- Data is sent to the MIPI and GMRS applications at set frequencies.
- This may be in compliance with UNC or EU regulation, or when data is available to publish.
- Some data is directly fed into MIPI, whereas other data enters a preprocessor function that aggregates the data for publishing.
- These are automatic processes.

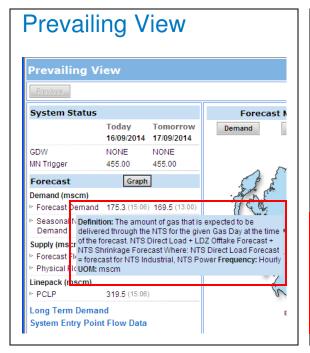
#### **Examples**

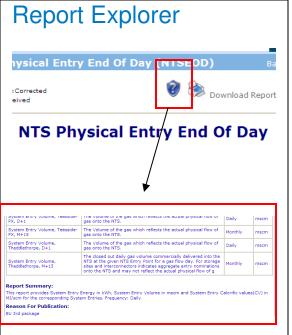
Report / Data Item	Publication frequency	Description
Instantaneous Flows	Data refreshed every 12 minutes to 2 minute granularity	As per regulation set out in UNC TPD.
Forecast Demands (SISR03)	· ·	As per regulation set out in UNC TPD.
NTS Physical Entry End of Day (NTSEOD)	Publication at D+1 ~12:00.	EU 3 <sup>rd</sup> Package

#### **Data Item Descriptions**

- Each data item has a description, which includes; description, publication frequency and unit of measure.
- Available through;







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#### **Prevailing View**

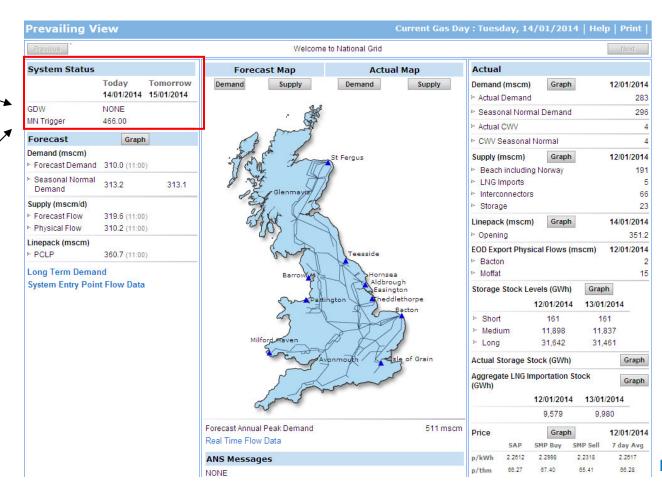
- A single screen snapshot of the latest available information (forecast and actual).
- Updated throughout the day as new information becomes available.

#### **Gas Deficit Warning**

- D and D-1
- Issued at the discretion of the Gas National Control Centre to address a physical imbalance on the NTS.

#### **Margins Notice Trigger**

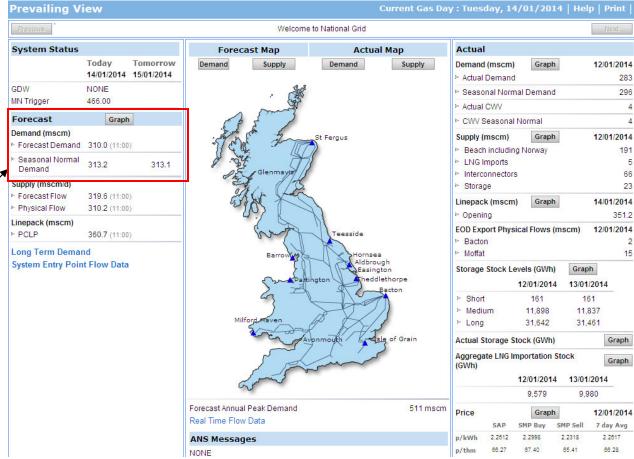
- D and D-1
- Calculated at 13:00. If forecast demand is greater than the expected available supply, a Margins Notice is issued.
- Provides NTS users with a high-level early indication of a potential supply / demand imbalance.



- A single screen snapshot of the latest available information (forecast and actual).
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- Updated daily
- An expected amount of demand based upon a seasonal normal year profile.



#### **Prevailing View**

- A single screen snapshot of the latest available information (forecast and actual).
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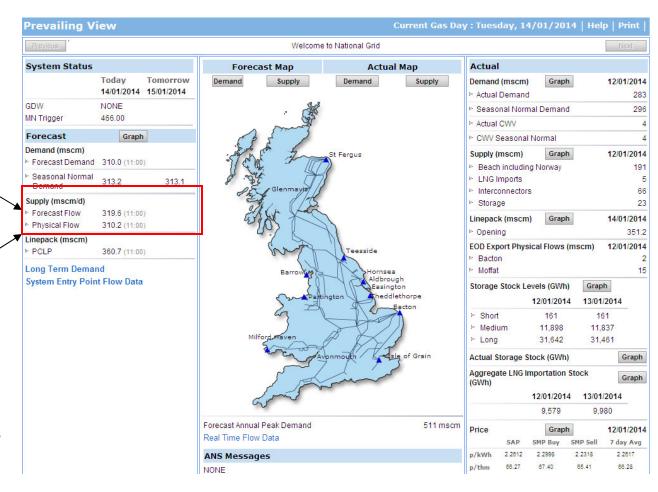


#### Forecast Flow

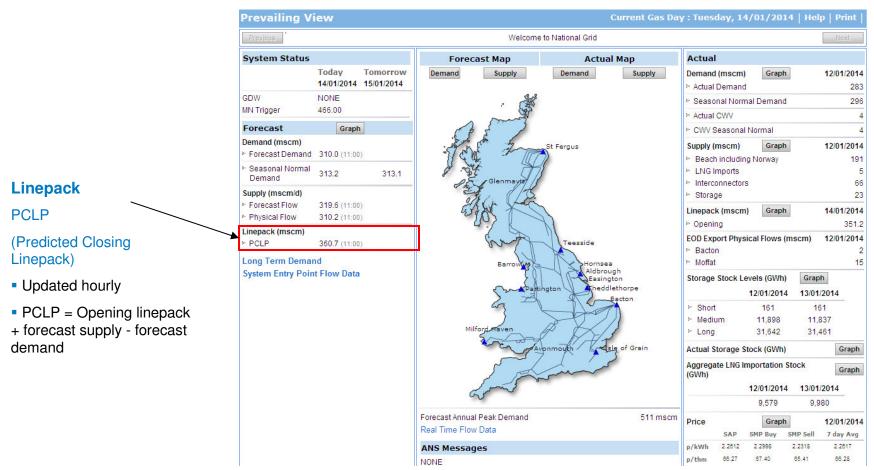
- Updated hourly
- Forecasted end of day flows into the NTS based on the received delivery flow notifications and storage flow notifications for all entry points.

#### **Physical Flow**

- Updated hourly
- Physical aggregated flows into the NTS. Derived from metered instantaneous flows and represented as the amount of gas that would flow through the site in 24 hours at that current rate.



- A single screen snapshot of the latest available information (forecast and actual).
- Updated throughout the day as new information becomes available.



#### **Prevailing View**

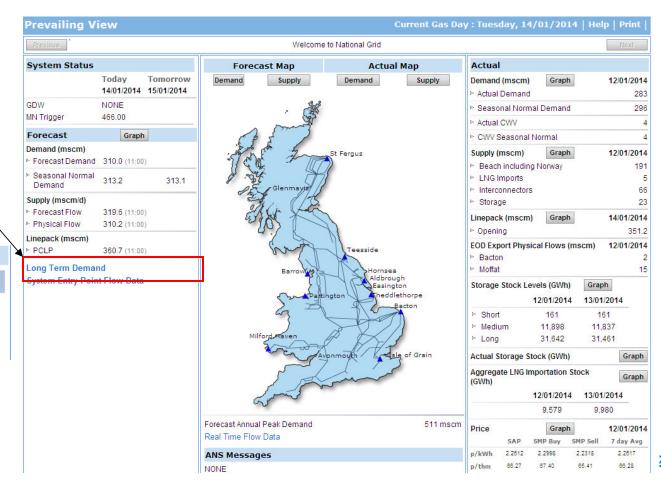
- A single screen snapshot of the latest available information (forecast and actual).
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- Updated daily
- Physical demand forecast for the NTS for the period D-2 to D-5 (2 days before the Gas Day to 5 days before the Gas Day).

#### Long Term Demand

Gas Day		Demand (mscm)	90% CI (mscm)
04/04/2014	D-2	203	+/-10
05/04/2014	D-3	197	+/-11
06/04/2014	D-4	198	+/-12
07/04/2014	D-5	208	+/-12

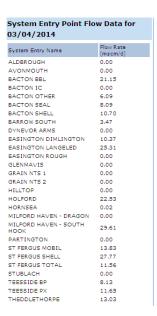


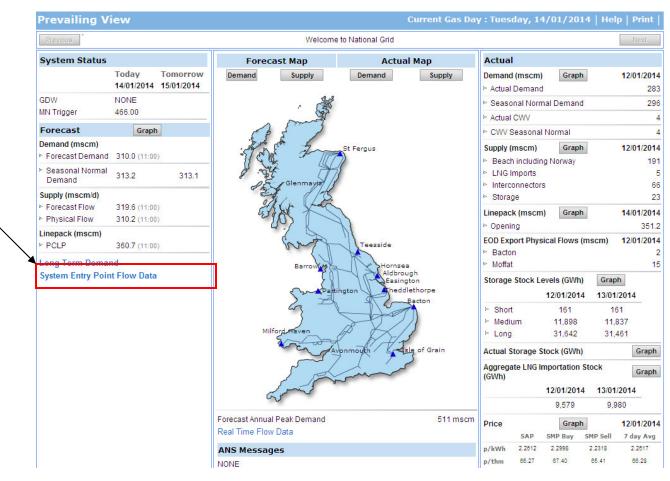
#### **Prevailing View**

- A single screen snapshot of the latest available information (forecast and actual).
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#### System Entry Point Flow Data

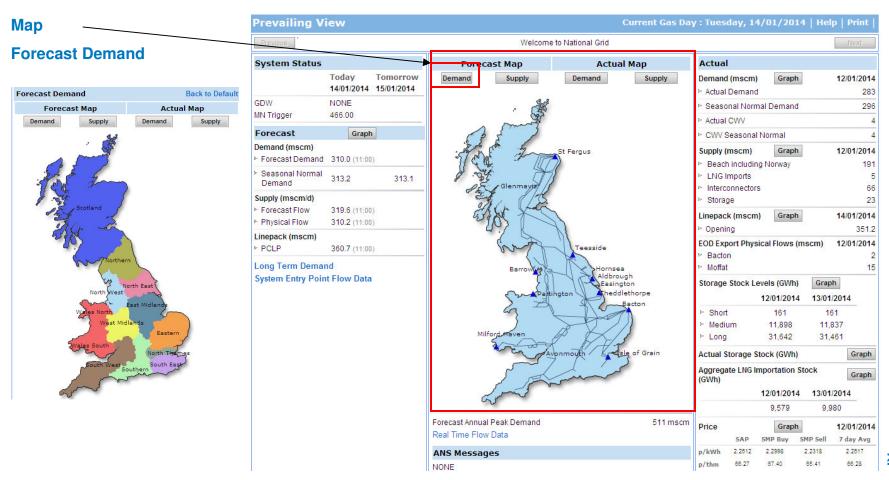
- Updated throughout the Gas Day.
- See the Instantaneous Flows page for full scope of data.



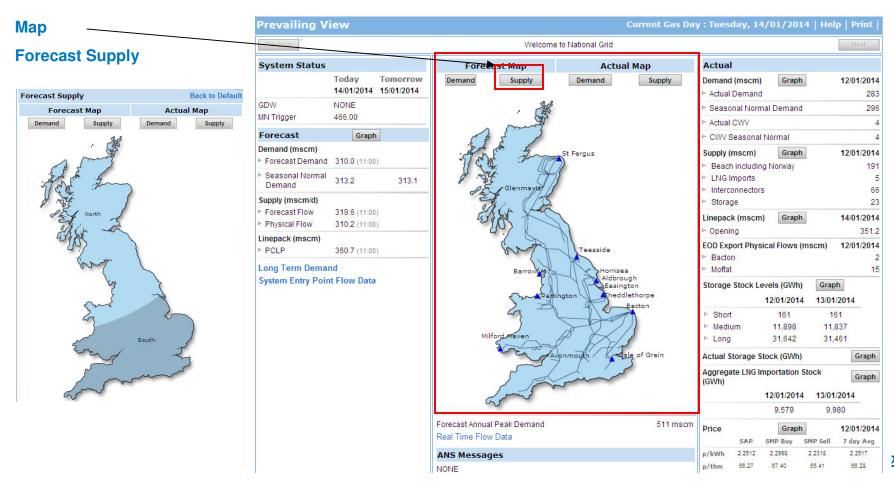




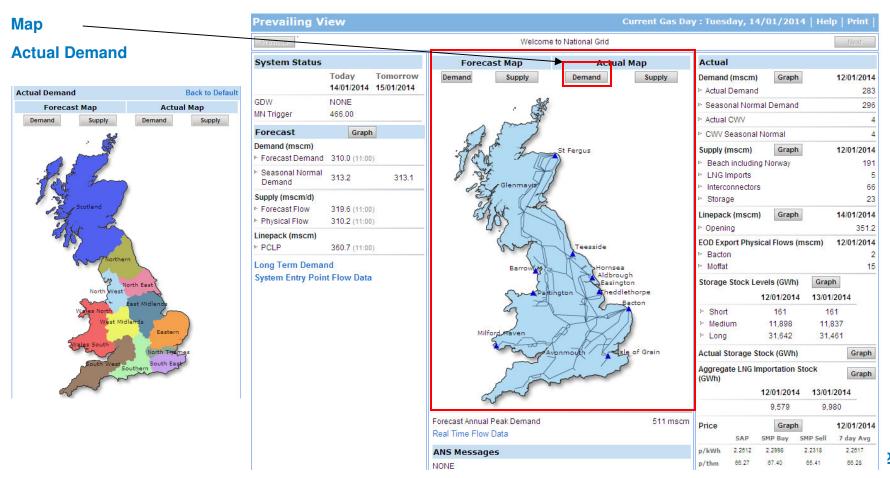
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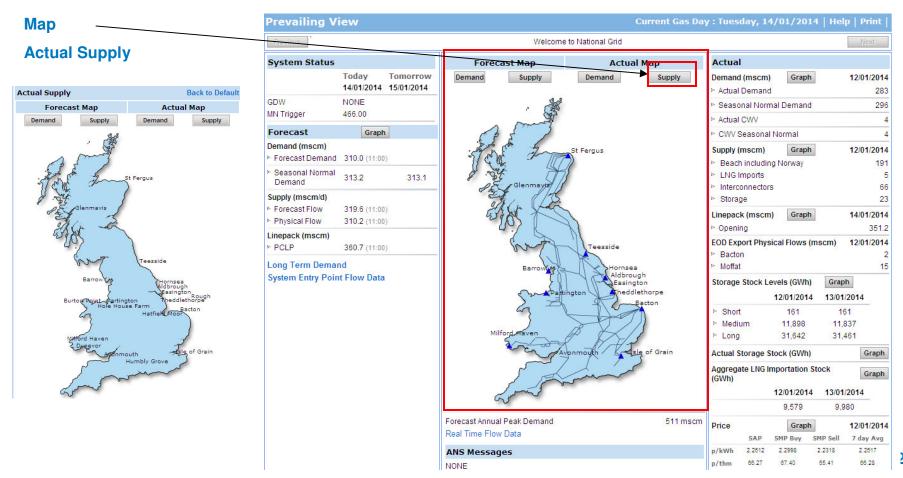
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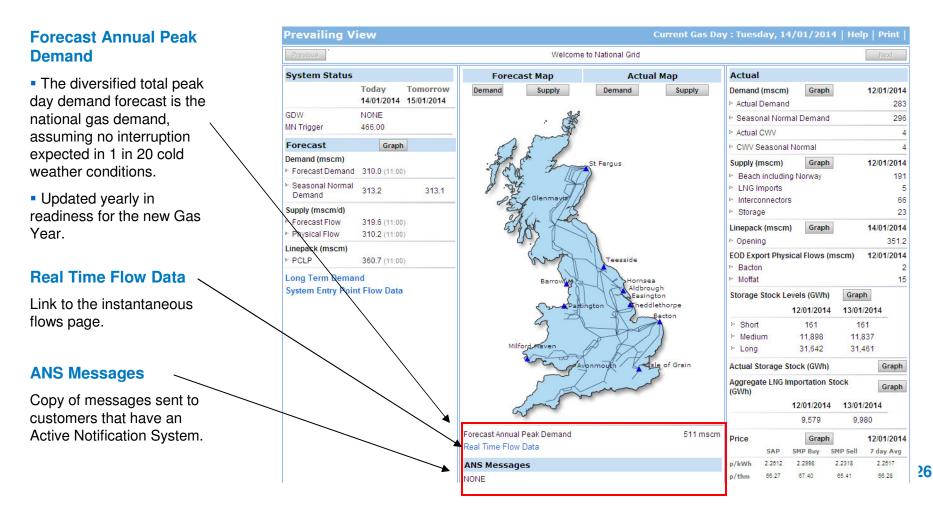
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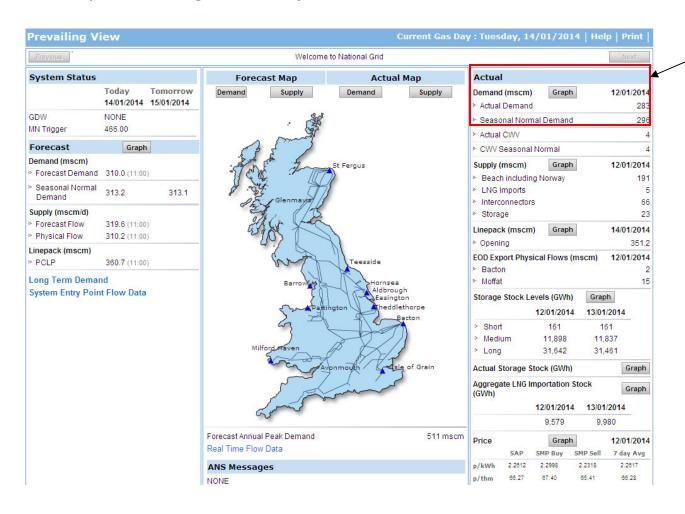


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#### **Prevailing View**

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#### **Actual**

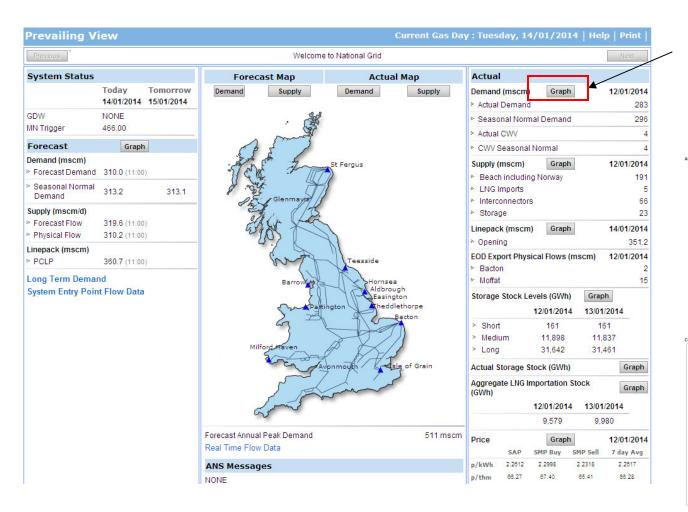
#### **Actual Demand**

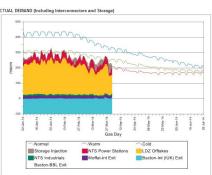
- Updated daily (~12:00)
- The amount of gas delivered through the NTS for the given gas day.
   Provided on the following gas day (D+1).

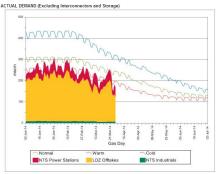
#### Seasonal Normal Demand

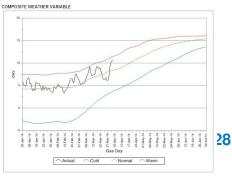
 An expected amount of demand based upon a seasonal normal year profile for D+1.

- A single screen snapshot of the latest available information (forecast and actual).
- Updated throughout the day as new information becomes available.

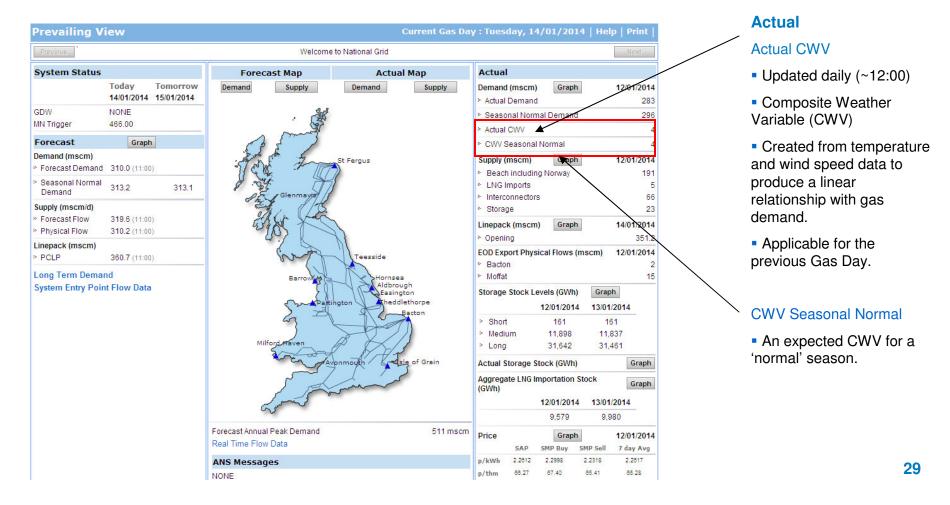






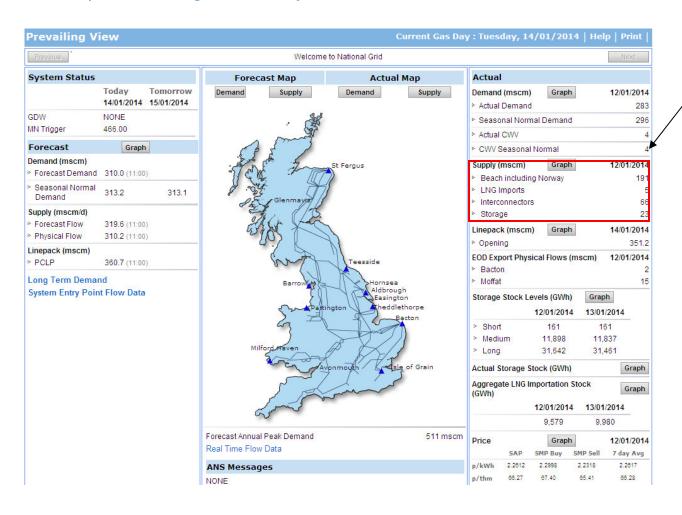


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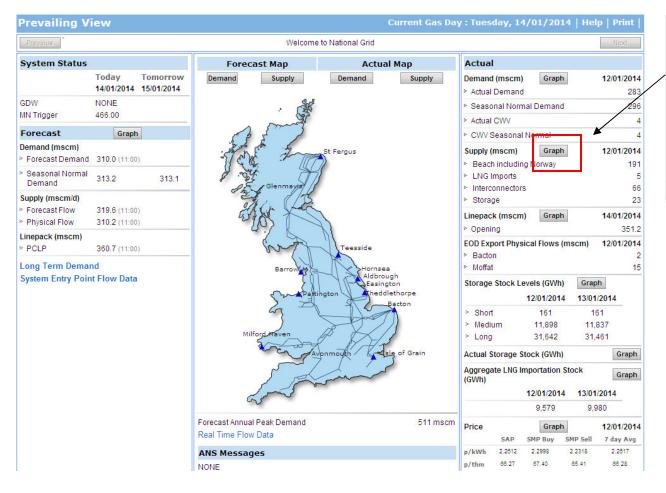


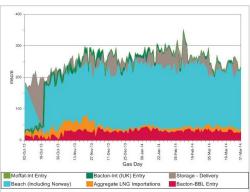
#### **Supply**

End of day aggregated flows for each entry type;

- Beach including Norway (sub-terminals)
- LNG imports
- Interconnectors
- Storage

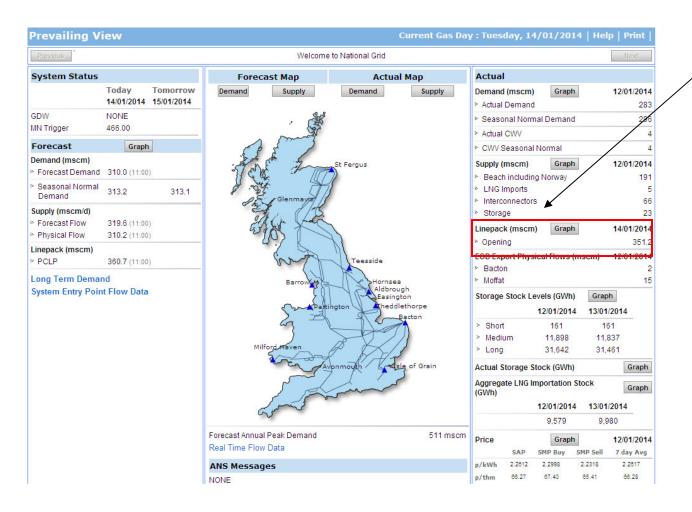
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#### **Prevailing View**

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#### Linepack

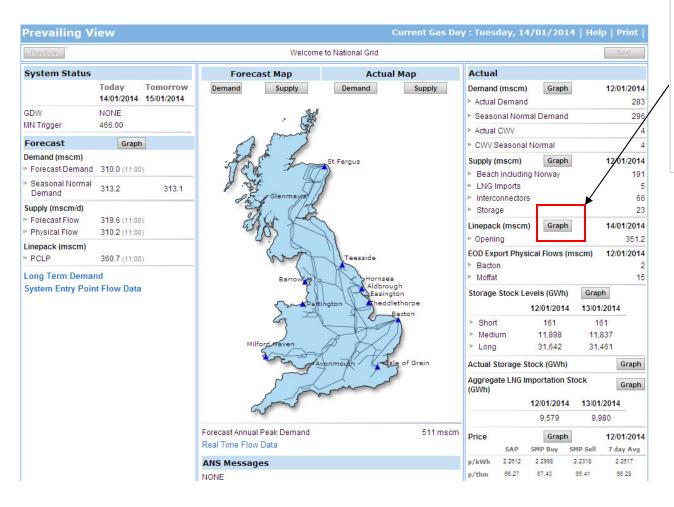
#### **Opening**

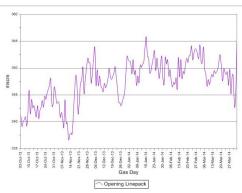
 The actual linepack at the start of the Gas Day (06:00).

#### **Prevailing View**

• A single screen snapshot of the latest available information (forecast and actual).

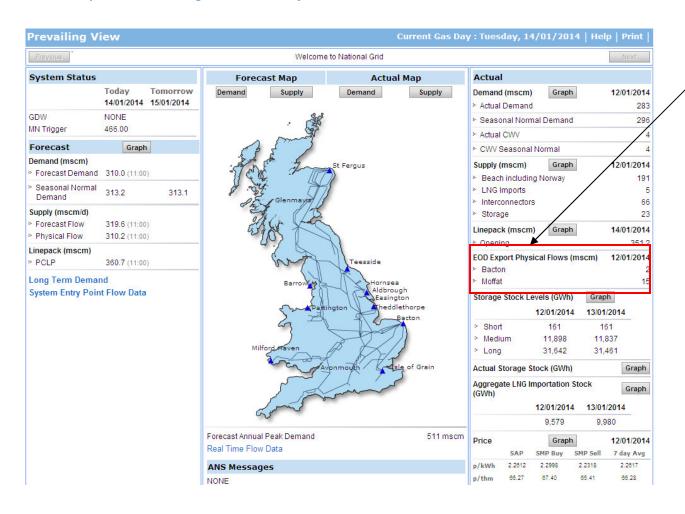
Updated throughout the day as new information becomes available.





#### **Prevailing View**

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#### **EOD Export Physical** Flows (mscm)

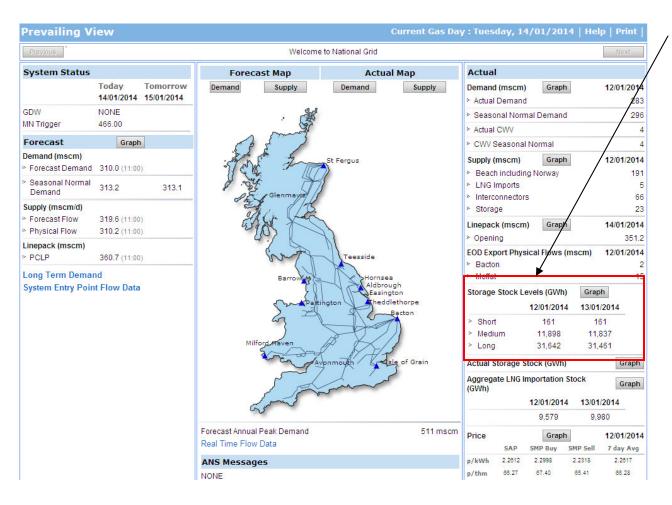
#### **Bacton**

#### Moffat

 The aggregate physical quantity of gas offtaken from the system in the preceding gas flow day.

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#### **Storage Stock Levels (GWh**

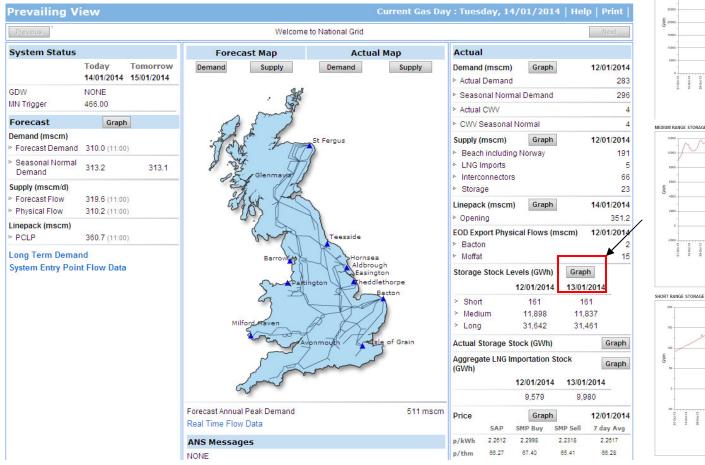
Aggregate stock levels for each storage site type.

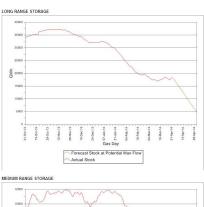
- Short Range Storage (SRS):
  Avonmouth is now the only SRS site. It is an onshore site that stores LNG that has been condensed from the NTS, not delivered by ship. When needed, the liquid gas is re-vaporised and delivered to the NTS. SRS can respond quickly but has limited stock.
- Medium Range Storage (MRS):
   There are multiple MRS sites.
   These are commercially operated sites that have shorter injection / withdrawal times so can react more quickly to demand.
- Long Range Storage (LRS):
   Rough is the only LRS site. The site is offshore and mainly injects in the summer and withdraws in the winter.

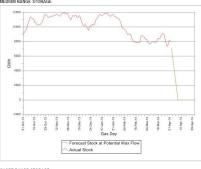
### **Prevailing View**

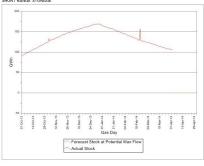
• A single screen snapshot of the latest available information (forecast and actual).

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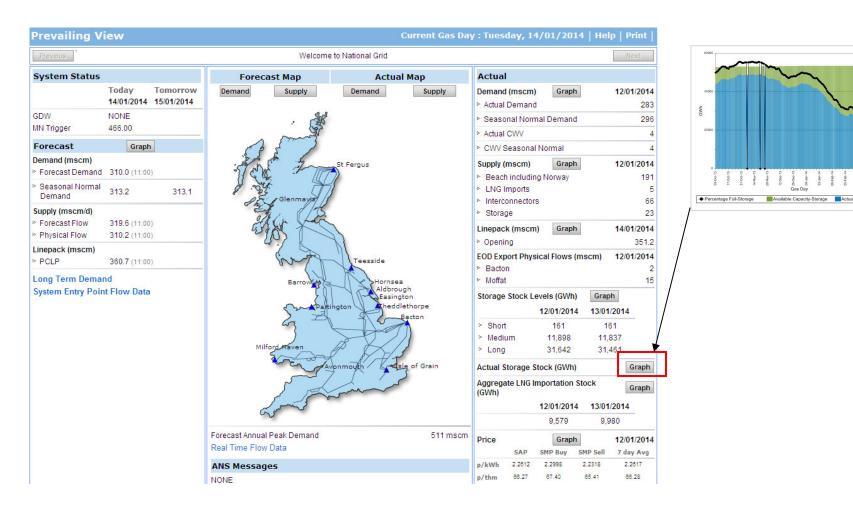






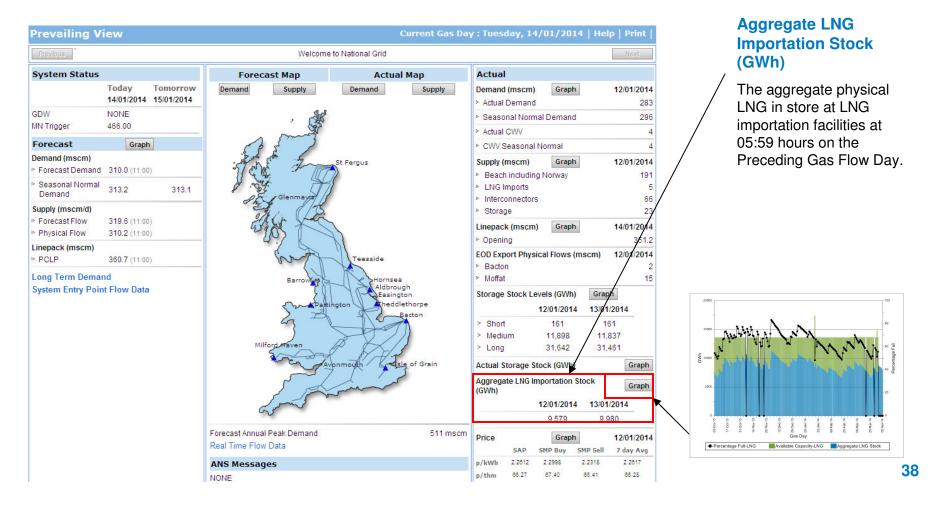
## **Prevailing View**

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## **Prevailing View**

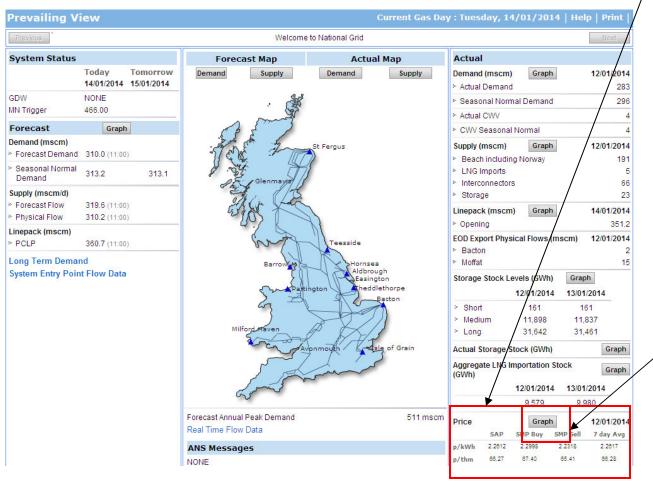
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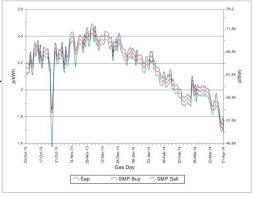
## **Prevailing View**

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#### **Price**

- **SAP:** The average price of all gas traded via the OCM for the Gas Day.
- **SMP Buy:** The greater of SAP + default or the price which is equal to the highest market offer price in relation to a market balancing action taken that day.
- **SMP Sell:** The lesser of SAP default or the price which is equal to the lowest market offer price in relation to a market balancing action taken that day.
- 7 Day Avg: A 7 day rolling average of all gas traded via the OCM



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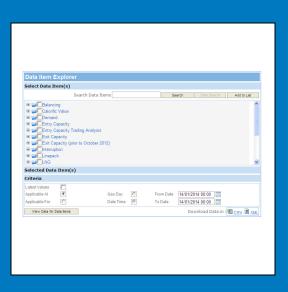
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## **The Explorers**

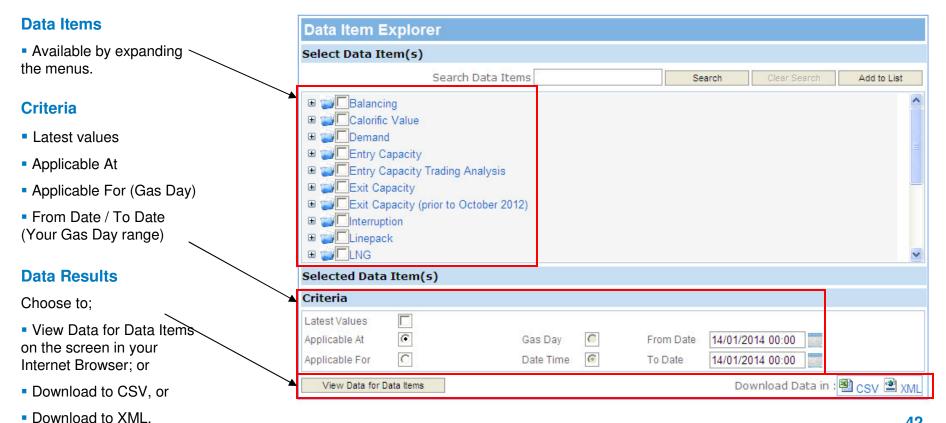




## **Data Item Explorer**

- All data is available at an individual data item level to enable users to select combinations of items. at their choice. These are categorised in menus according to their subject.
- A rolling 5 years of data can be accessed\*.

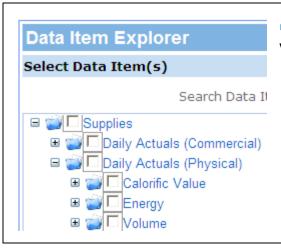
\* Data is available from the time that the data item was introduced to MIPI.



## **Data Item Explorer: Favourites!**

- Actual Demand available at Exit Point level for Calorific Value, Energy and Volume:
  - Industrial Offtakes
  - Interconnector
  - LDZ offtake
  - NTS Power station
  - Storage and LNG





- Actual Supplies available for every Entry point for Calorific Value, Energy and Volume:
  - Sub-terminal
  - Interconnector
  - LNG Importation
  - Storage



## **Data Item Explorer: Favourites!**

- Storage data available according to type;
  - Long / Medium / Short
- Total aggregated data items also available.

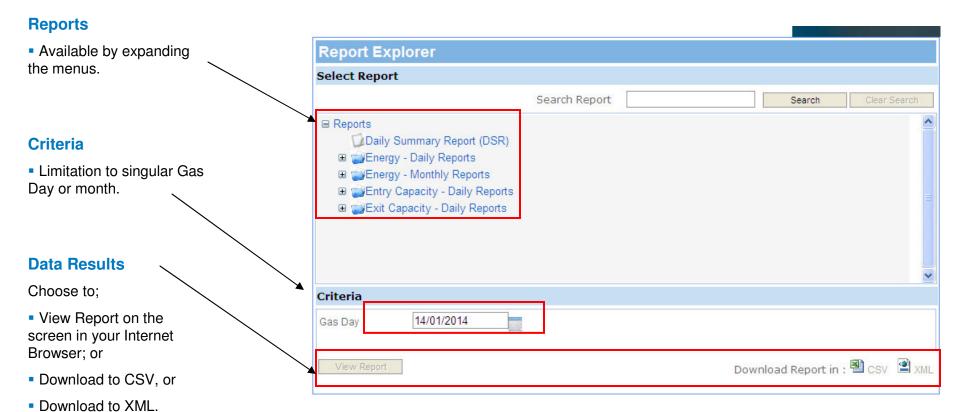
Data Item Explorer				
Select Data Item(s)				
	Search Data Items			
	Storage			
<b>H</b>	Actuals			
<b>H</b>	Firm Monitors			
<b>H</b>	Safety Actuals			
■   Safety Monitors				
<b>=</b>	Stock Levels			
	Storage, Long Range, Stock Levels			
	Storage, Medium Range, Stock Levels			
	Storage, Short Range, Stock Levels			
	<u> </u>			



- All of the **reports** in Report Explorer are available through Data Item Explorer.
- Provides ability to download a larger data set for our pre-defined reports.

## Report Explorer

- Provides several reports in a pre-defined format. Categorised according to publication schedule.
- Limitation to singular Gas Day or Month.



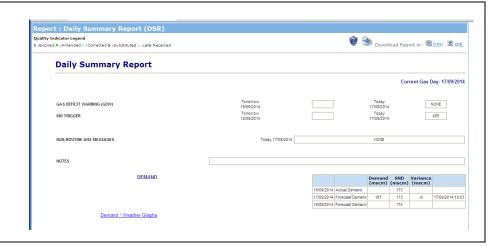


## **Report Explorer: Favourites!**

#### **Daily Summary Report**

- Latest data, including;
- Forecast supply / demand position
- Gas Deficit Warning & Margins Notice Trigger
- ... and more!

Updated: ASAP



#### **NTS Physical Entry End Of Day** Report Created: 17/09/2014 10:27 Gas Day: 01/09/2014 Updated At D+1 System Entry Site Function 38.8<sup>L</sup> 48.332.222 Sub Terminal Bacton - Tullow Sub Terminal 108 536 111<sup>L</sup> Bacton - Seal Sub Terminal Sub Terminal 38.8<sup>L</sup> 35.119.656<sup>t</sup> Sub Terminal

#### **NTS Physical Entry EOD**

- System Entry data for sub terminal, interconnector, storage and LNG facilities.
- Volume, Energy and CV

Updated: D+1 (after the Gas Day)



## **Report Explorer: Favourites!**

#### **Actual Offtake Flows (AOF)**

- System Exit data for Industrial Offtake, Interconnector, LDZ Offtake, Power stations and storage sites
- Volume, Energy and CV

Updated: D+1 (after the Gas Day)

#### **Actual Offtake Flows**

#### Gas Day: 01/09/2014

The Provision of Ex-Post Demand Information for all NTS Offtakes

Site Type	Site Name	Calorific Value (MJ/scm)	Total physical flows (mscm)	Energy (kWh)
Industrial Offtake	AMPaperind			
Industrial Offtake	BASFInd	40.3 <sup>L</sup>	0.52650 <sup>L</sup>	5,893,351 <sup>L</sup>
Industrial Offtake	BOCTeesInd	40.3 <sup>L</sup>	0.35936 <sup>L</sup>	4,023,332 <sup>L</sup>
Industrial Offtake	BPGrngmouthInd	40.3 <sup>L</sup>	0.91990 <sup>L</sup>	10,311,110 <sup>L</sup>
Industrial Offtake	BPSaltendHPInd	39.3 <sup>L</sup>	0.39475 <sup>L</sup>	4,251,031 <sup>L</sup>
Industrial Offtake	BlackburnMind	39.6 <sup>L</sup>	0.00000 <sup>L</sup>	0 <sup>L</sup>

#### **Forecast Demands**

Gas Day: 01/09/2014

Date/ time forecasts were made: 01/09/2014 23:58

LDZ	Demand (mscm)
EA	4.950
EM	7.000
NE	5.300
NO	4.800
NT	5.900
NW	8.850
SC	6.300
SE	6.000
SO	4.700
SW	3.200
WM	5.250
wn	0.850

#### **Forecast Demands (SISR03)**

 The latest forecast demand for each LDZ and a total forecast demand value.

Updated: Before and during the Gas Day in compliance with UNC.



## **Report Explorer: Favourites!**

#### **Cashout Balancing Prices**

• The system average price (SAP), the SMP Buy and Sell, and a rolling 7 and 30 day average.

Updated: D+1 (after the Gas Day)

#### **Cashout Balancing Prices** Figures are in p/kWh SAP Actual, SMP Buy Actual, SMP Sell Actual, SAP - 7 day rolling SAP - 30 day rolling Gas Day Day Day Day average average 01/09/2014 1.7188<sup>L</sup> 1.7482<sup>l</sup> 1.6894<sup>L</sup> 1.5285<sup>t</sup> 1.4058<sup>t</sup> 02/09/2014 1.6881<sup>L</sup> 1.7573<sup>1</sup> 1.6587<sup>L</sup> 1.5619<sup>L</sup> 1.4211<sup>L</sup> 03/09/2014 1.6593<sup>L</sup> 1.7231<sup>1</sup> 1.6299<sup>L</sup> 1.5880<sup>L</sup> 1.4371L 04/09/2014 1.7283L 1.7577<sup>1</sup> 1.6989<sup>t</sup> 1.6148<sup>L</sup> 1.4503<sup>t</sup> 05/09/2014 1.6526L 1.6820<sup>1</sup> 1.6232<sup>l</sup> 1.6408L 1.4647L 06/09/2014 1.6470<sup>L</sup> 1.6764<sup>1</sup> 1.4763<sup>L</sup> 1.6176<sup>L</sup> 1.6527<sup>t</sup>

# Gas Shippers are responsible for Balancing their own inputs and outputs to the National Transmission System on a Daily basis. They do this using a commercial system to advise National Grid of their "Nominated" values. After the gas day, Gas is the full coated to each Gas Shipper based on metered flow information. National Grid acts as a "residual balance" to ensure a balanced system by buying and selling gas and utilising stored gas to ensure that in most circumstances, demand can be met. Usually the system is balanced by gas bought not be open market through the On the Day Commodity Market (OCM) set up as part of the Uniform Network Code (UNC) - the rules that govern the supply of gas. National Grid also has other balancing tools available as defined in the System Management Principles Statement (SMPS) for example Operating Margins gas utilisation. After the gas day, National Grid then "Allocate" gas to each Gas Shipper based on metered flow information available to them as Transmission System Operator. Commentary for Gas Day: 01/09/2014 Compliance with guidelines: Yes Comments: None Balancing Action kwh Gas Day Time Operating Margins, Utilisation | None Today | 02/09/2014 11.40 System Information | Mscm | kWh/d | Within day | Demand Forecast (13.00 D-1) | 162.70 | Actual

#### **Daily Operation Information (NOD01c)**

- Total nominated and actual inputs and outputs to/from the system
- A summary of all balancing actions used
- Supply / demand / linepack / price details

Updated: D+1 / D+2 / D+7

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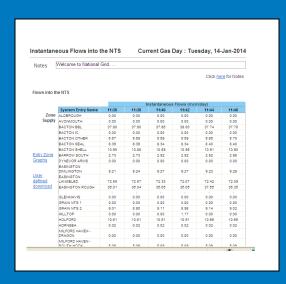
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- Provides the latest telemetered data direct from the individual sites.
- The data is to 2 minute granularity and refreshed every 12 minutes.

Flows into the NTS

#### Data included;

- All entry points (or combination of entry points from the same terminal) that are capable of flows into the network at rates greater than 10mcm/day.
- All entry points that are owned and operated by National Grid (LNG Storage Sites).

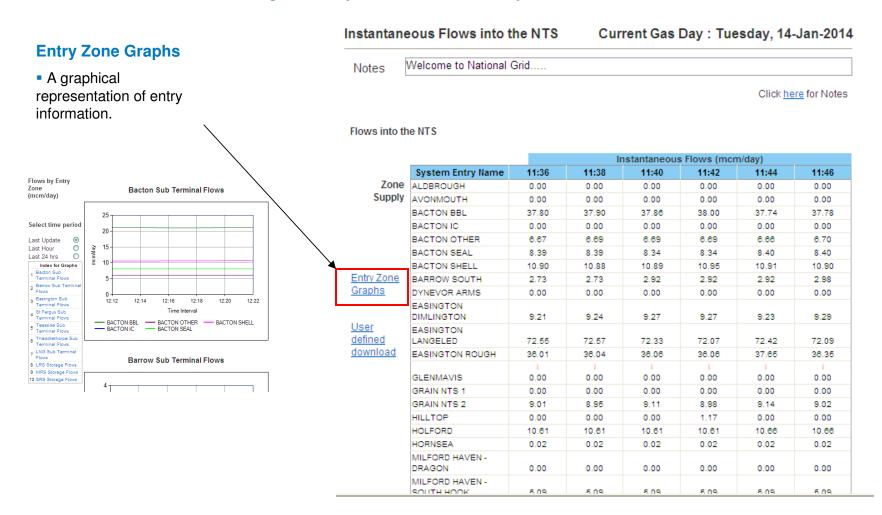


Click <u>here</u> for Notes

		li li	nstantaneous	s Flows (mcr	n/day)	
System Entry Name	11:36	11:38	11:40	11:42	11:44	11:4
MIC ALDBROUGH	0.00	0.00	0.00	0.00	0.00	0.00
AVONMOUTH	0.00	0.00	0.00	0.00	0.00	0.00
BACTON BBL	37.80	37.90	37.86	38.00	37.74	37.7
BACTON IC	0.00	0.00	0.00	0.00	0.00	0.00
BACTON OTHER	6.67	6.69	6.69	6.69	6.66	6.70
BACTON SEAL	8.39	8.39	8.34	8.34	8.40	8.40
BACTON SHELL	10.90	10.88	10.89	10.95	10.91	10.9
BARROW SOUTH	2.73	2.73	2.92	2.92	2.92	2.98
DYNEVOR ARMS	0.00	0.00	0.00	0.00	0.00	0.00
EASINGTON DIMLINGTON	9.21	9.24	9.27	9.27	9.23	9.2
EASINGTON LANGELED	72.55	72.57	72.33	72.07	72.42	72.0
EASINGTON ROUGH	36.01	36.04	36.06	36.06	37.65	36.3
GLENMAVIS	i 0.00	i 0.00	i 0.00	i 0.00	i 0.00	i 0.00
GRAIN NTS 1	0.00	0.00	0.00	0.00	0.00	0.00
GRAIN NTS 2	9.01	8.95	9.11	8.98	9.14	9.02
HILLTOP	0.00	0.00	0.00	1.17	0.00	0.00
HOLFORD	10.61	10.61	10.61	10.61	10.66	10.6
HORNSEA	0.02	0.02	0.02	0.02	0.02	0.02
MILFORD HAVEN - DRAGON	0.00	0.00	0.00	0.00	0.00	0.00
MILFORD HAVEN -	5.09	5.09	5.09	5.09	5.09	5.09



- Provides the latest telemetered data direct from the individual sites.
- The data is to 2 minute granularity and refreshed every 12 minutes.

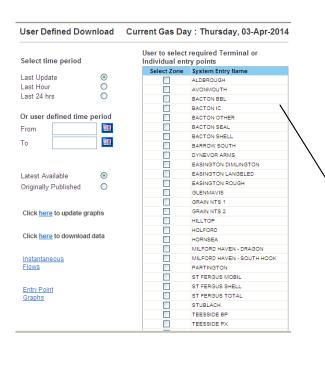




- Provides the latest telemetered data direct from the individual sites.
- The data is to 2 minute granularity and refreshed every 12 minutes.

#### **User Defined Download**

Function to download historical data.



Instantar	neous Flows into the NTS	Current Gas Day : Tuesday, 14-Jan-20				
Notes	Welcome to National Grid					

Click here for Notes

#### Flows into the NTS

			Instantaneous Flows (mcm/day)				
	System Entry Name	11:36	11:38	11:40	11:42	11:44	11:46
	ALDBROUGH	0.00	0.00	0.00	0.00	0.00	0.00
	AVONMOUTH	0.00	0.00	0.00	0.00	0.00	0.00
	BACTON BBL	37.80	37.90	37.86	38.00	37.74	37.78
	BACTON IC	0.00	0.00	0.00	0.00	0.00	0.00
	BACTON OTHER	6.67	6.69	6.69	6.69	6.66	6.70
	BACTON SEAL	8.39	8.39	8.34	8.34	8.40	8.40
	BACTON SHELL	10.90	10.88	10.89	10.95	10.91	10.90
Entry Zone	BARROW SOUTH	2.73	2.73	2.92	2.92	2.92	2.98
<u>Graphs</u>	DYNEVOR ARMS	0.00	0.00	0.00	0.00	0.00	0.00
	EASINGTON DIMLINGTON	9.21	9.24	9.27	9.27	9.23	9.29
<u>User</u> defined	EASINGTON LANGELED	72.55	72.57	72.33	72.07	72.42	72.09
<u>download</u>	EASINGTON ROUGH	36.01	36.04	36.06	36.06	37.65	36.35
	GLENMAVIS	0.00	i 0.00	i 0.00	i 0.00	i 0.00	0.00
	GRAIN NTS 1	0.00	0.00	0.00	0.00	0.00	0.00
	GRAIN NTS 2	9.01	8.95	9.11	8.98	9.14	9.02
	HILLTOP	0.00	0.00	0.00	1.17	0.00	0.00
	HOLFORD	10.61	10.61	10.61	10.61	10.66	10.66
	HORNSEA	0.02	0.02	0.02	0.02	0.02	0.02
	MILFORD HAVEN - DRAGON	0.00	0.00	0.00	0.00	0.00	0.00
	MILFORD HAVEN -	5.09	5.09	5.09	5.09	5.09	5.09

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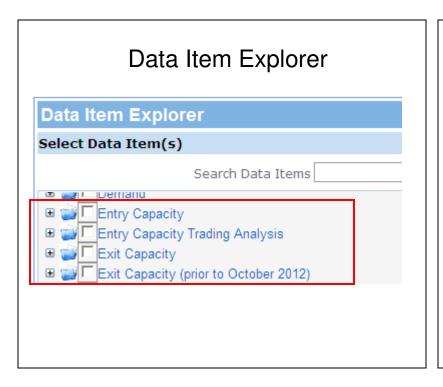
## **Other Data Provision**





## **Capacity Data**

Capacity data is available within the MIPI Application.

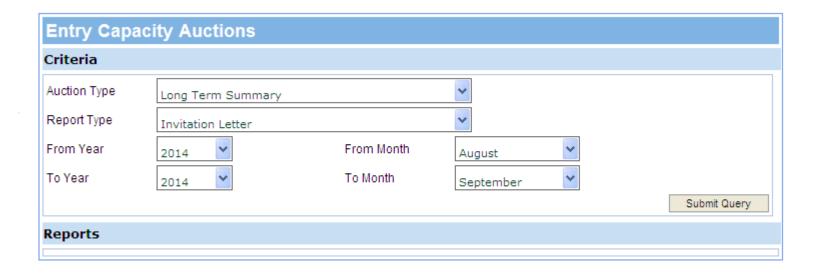






## **Capacity Page**

- Capacity section on the website, which includes Entry and Exit data.
  - Gas Transmission System Operations > Capacity
  - http://www2.nationalgrid.com/uk/industry-information/gas-transmissionsystem-operations/capacity/

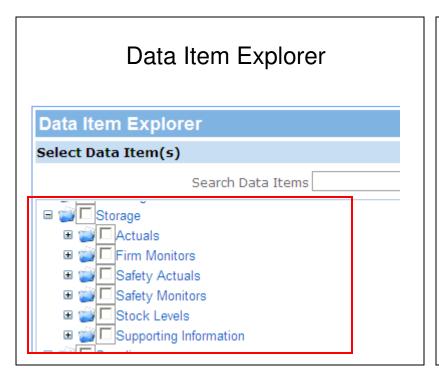


#### NTS Capacity Team:



## **Storage Data**

Storage data is available within the MIPI Application.

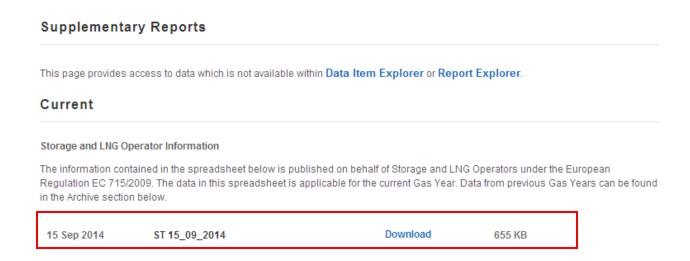






## **Storage & LNG Operator Report**

- The Storage and LNG Operator Information spreadsheet is available on the 'Supplementary Reports' page.
- Operators provide information to comply with EU regulation EC 715/2009.
  - Updated daily at 16:00
  - Historic data available from 2010.





#### **EU Data**

# European Network of Transmission System Operators for Gas

- "promotes the completion and functioning of the internal market and crossborder trade for gas in the EU".
- MIPI supports our EU data reporting requirements
- All data published to the ENTSOG platform is derived from MIPI.
- There may be some discrepancy due to conversion bewteen different units of measure;
  - MIPI 'standard' volume and energy units
  - EU is converted to 'normal' units
- We will continue to evolve our ENTSO reporting in line future obligations.







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## **API's**



#### **API Web Service**

- National Grid offers a 'Pull' Automated Programmable Interfaces (API) service for all of our customers.
- Customers can write their own code and select the data items that they are interested in.
- Available for GMRS & MIPI.
- Documentation available on Supporting Information website page;
  - http://www2.nationalgrid.com/uk/industry-information/gas-transmissionoperational-data/supporting-information/

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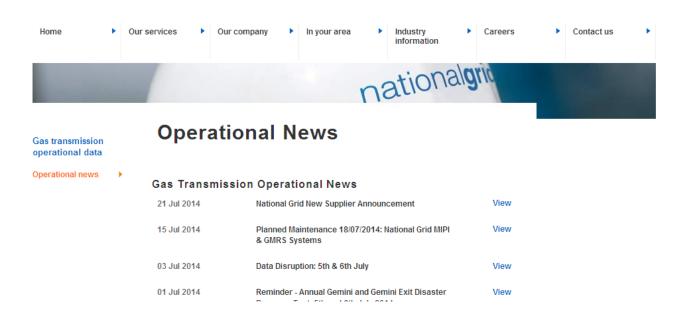
# **Operational News**





## **Operational News**

- National Grid has a dedicated page for posting operational news
- Topics may include notice of configuration changes, system maintenance activities or any other points of interest.
- Our page is available here;
  - http://www2.nationalgrid.com/UK/Industry-information/Gas-transmissionoperational-data/Operational-News/



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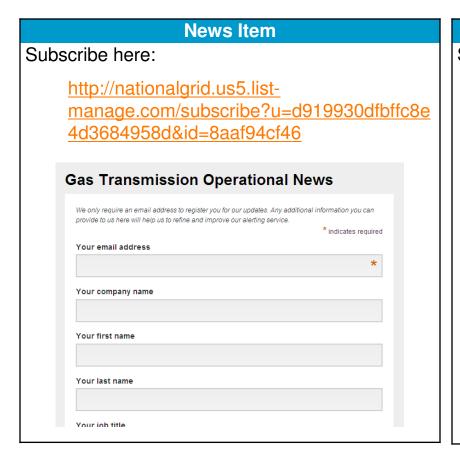
## **Subscription Service**





## **Subscription Service**

We offer a subscription service for our customers to receive a notification when we issue a;



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<u>id.us6.list-</u> <u>ubscribe?u=4674811e1f&amp;id=0</u>
nationalgrid
ational Grid Gas Deficit Warnings.  (Required fields are bold)
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Can Definit Warning

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## **GB REMIT**

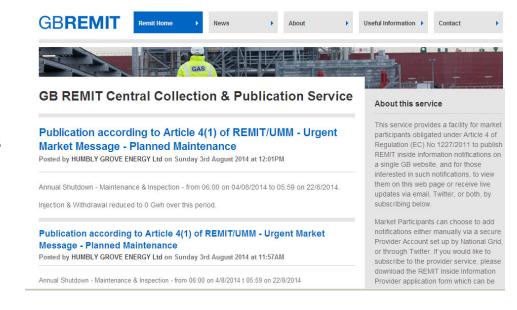


#### **GB REMIT**

#### Regulation on Wholesale Energy Markets Integrity and Transparency

GB REMIT has been live since October 2012.

- National Grid provides the GB Central Platform, free of charge, and it is available to REMIT notification providers and wider market participants to use.
- Users are not required to publish elsewhere.
- Twitter upload feature means notifications can be tweeted and will appear on the website, conforming to ACER guidelines.



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Operational Forum

# **Operational Forum**



## **Operational Forum**

- National Grid holds regular meetings with its customers to discuss the operation and performance of the Network Code energy balancing and capacity regimes.
  - We meet every month during the winter and bi-monthly in the summer.
  - These meetings are held in London.
- For further information, visit our website page at;
  <a href="http://www2.nationalgrid.com/uk/industry-information/gas-transmission-system-operations/gas-operational-forum/">http://www2.nationalgrid.com/uk/industry-information/gas-transmission-system-operations/gas-operational-forum/</a>
  - Or contact us at .box.GasOperations.ShipperLiaison

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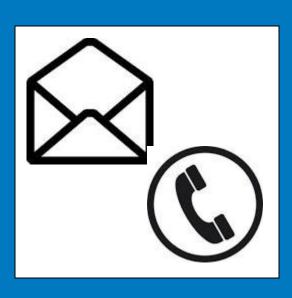
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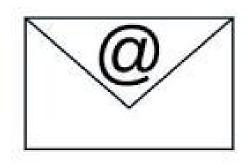
**GB REMIT** 

**Operational Forum** 



#### **Contact Us**

If you would like any further information about any of the gas market information that we provide on our website, please do not hesitate to contact us.



Sysop.Centre.Reporting
<a href="mailto:omr/m



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