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National Grid – Gas Industry Forum

Tracy Hine - Customer & Stakeholder Manager - Gas Distribution

21st May 2014

Outline for the day

09:30 – 10:00	**Refreshments / Registration**
10:00 – 10:10	Welcome and Introduction
10:10 – 10:30	Gas Distribution – Stakeholder Commitments Update
10:30 – 10:45	Gas Distribution – Pricing Update
10:45 – 11:10	**Break for Refreshments**
11:10 – 12:10	Industry Updates: Theft of Gas / UNC Mods
12:10 – 12:30	Firm Load Shedding Update
12:10 – 12:30	Energy Futures
12:30 – 13:15	**Break for Lunch**
13:15 – 13.40	Energy Futures
13:40 – 14:10	2013/14 Winter Review and Prevailing View overview
14:10 – 14:20	AOB
14:20 – 14:30	**Feedback / Close**

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House Keeping

No fire alarm tests scheduled

Smoking only permitted in designated areas

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Introduction to National Grid Gas Distribution

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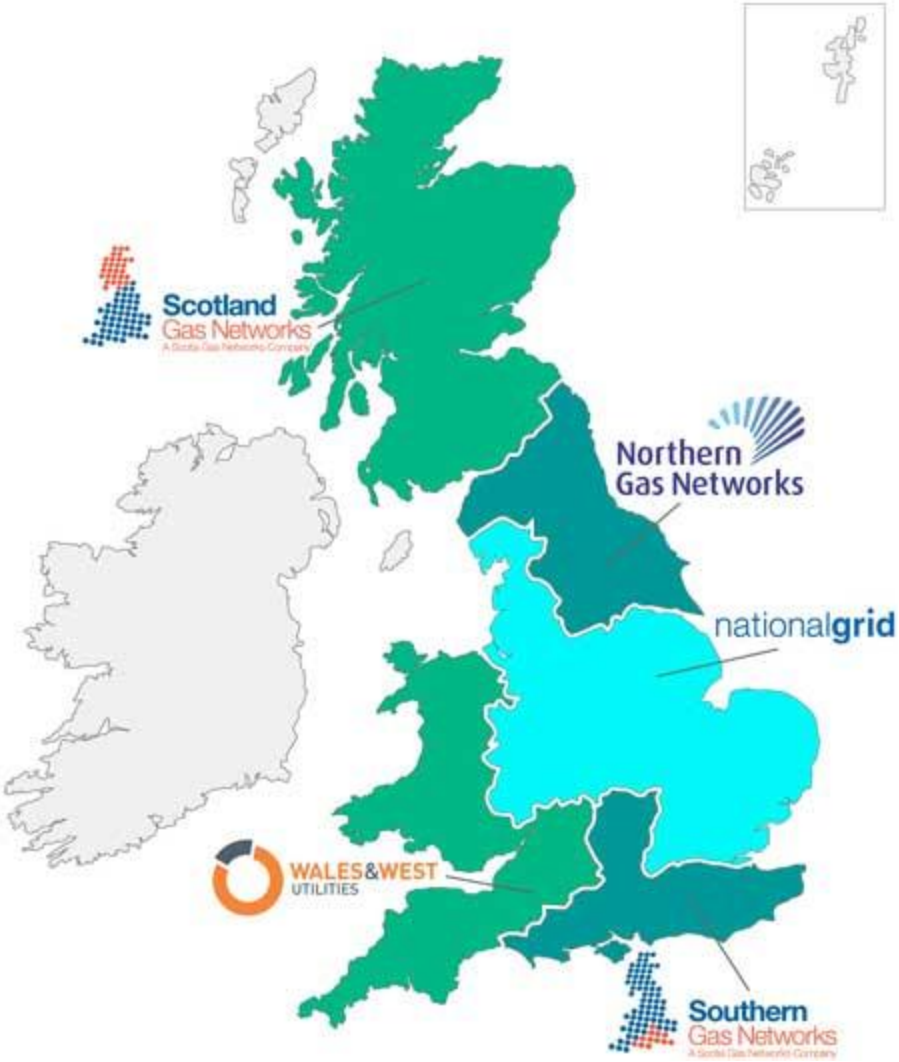
Distribution Network Companies



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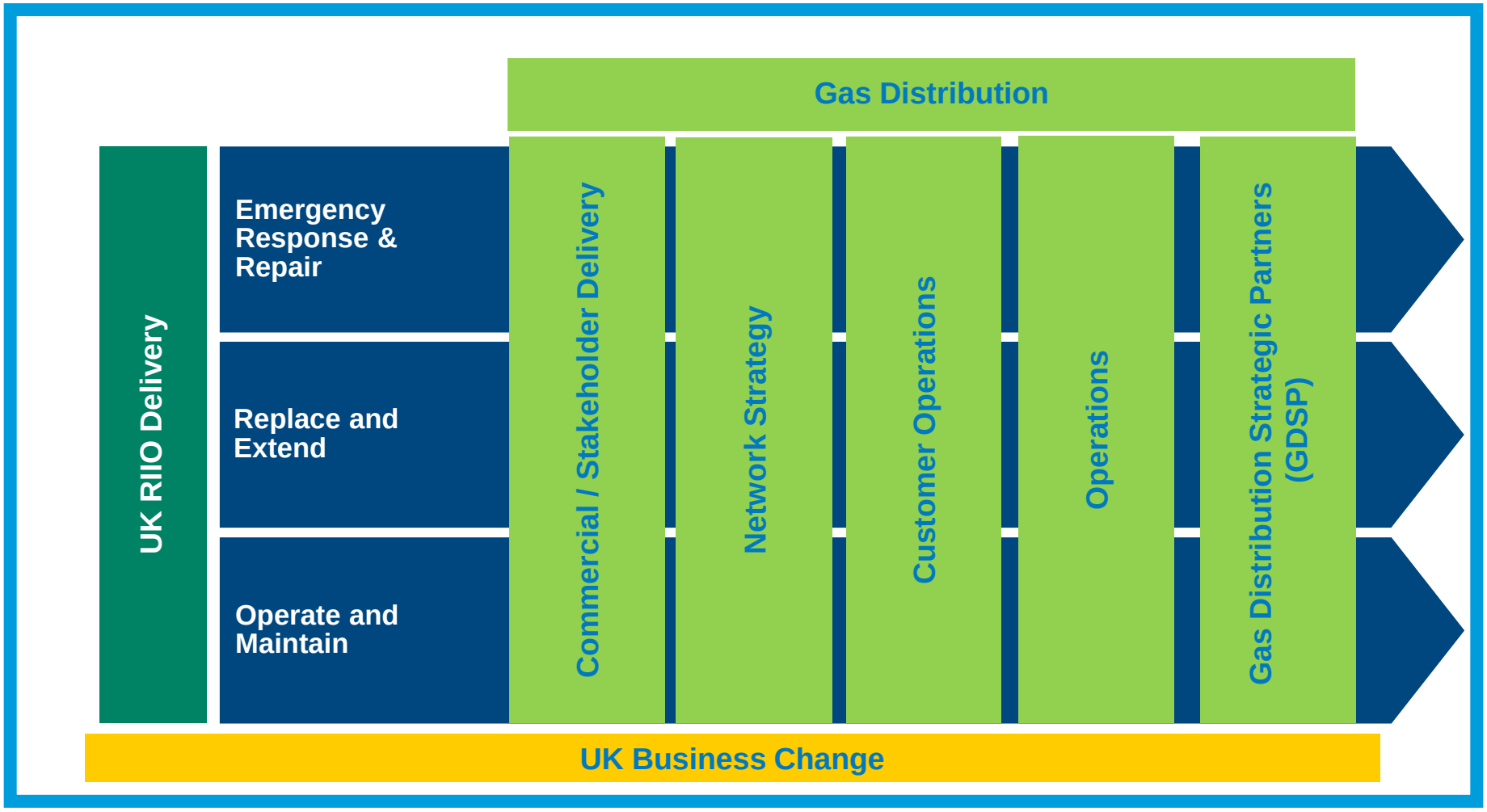
Gas distribution



Scale of our operations

131,000 kilometres of pipelines

26 active gas shippers

10.8 million consumers

operate 24 hours a day, 7 days a week

£400 million running the gas emergency service

Risk removed from iron mains over 8yr RIIO

maintain gas distribution above ground assets

replace complex gas mains

Annual increases in customer satisfaction

over 3 million calls per year

meter number enquiry service

enquiries line

appliance repair helpline

national gas emergency number (0800 111 999)

Reliability levels of 99.99%

533,000 emergency jobs

616,000 metering jobs

70,000 repair jobs (7000 caused by 3rd parties)

24,000 connections jobs

c5,000 fuel poor homes connected to gas p.a.

45 live biomethane connection projects

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Working with our stakeholders

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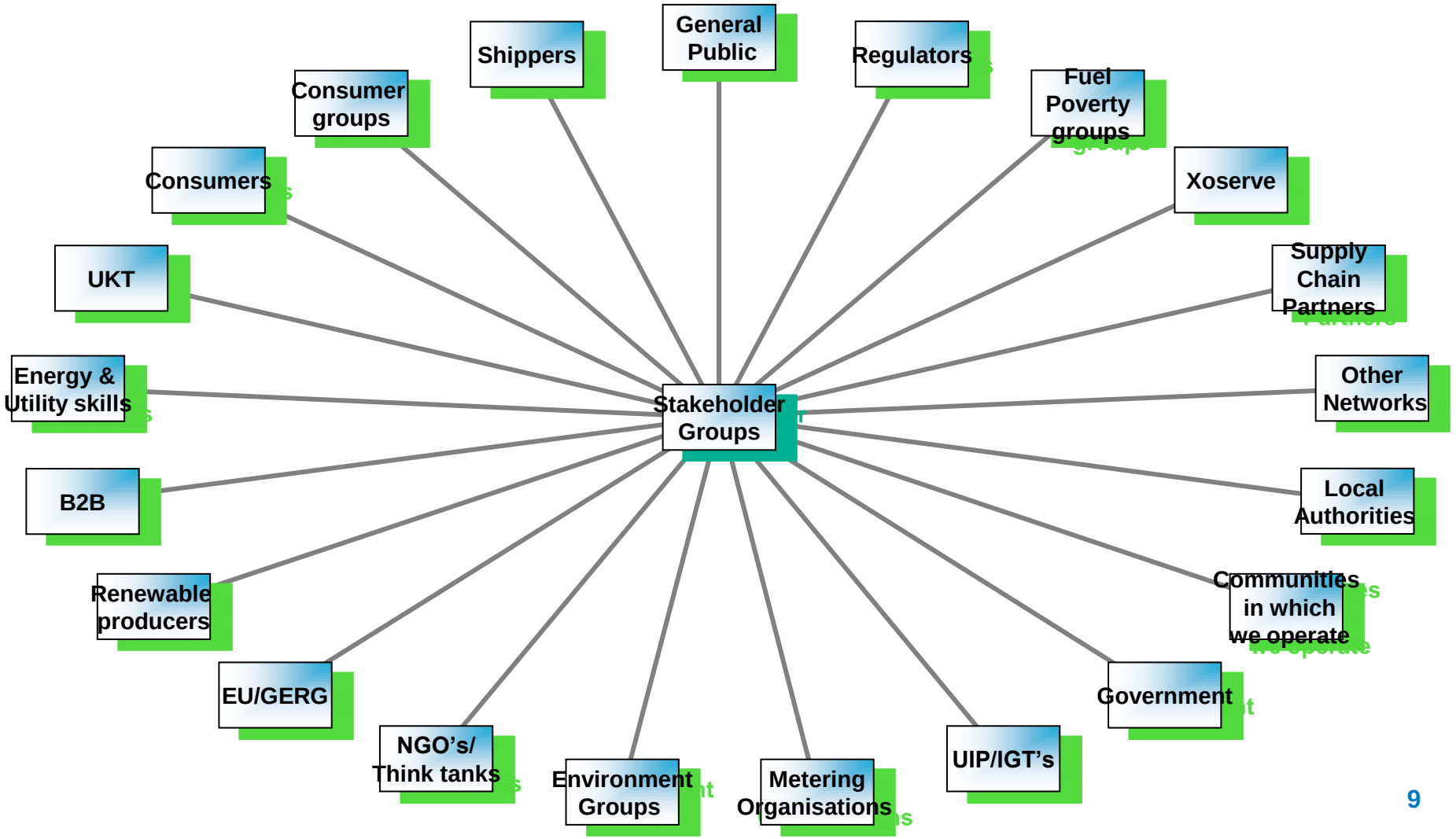
Some of our customers & stakeholders



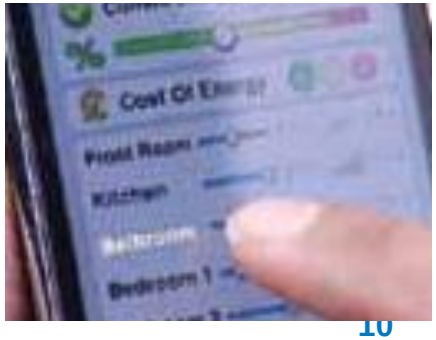
Our five RIIO priorities

We will keep you safe and warm

We will be reliable

We will safeguard future generations

We will deliver a quality service to all



We will provide value for money

Our recent engagement results

To understand how we are doing, how we can improve and understand what our stakeholder priorities should be for 2014/15

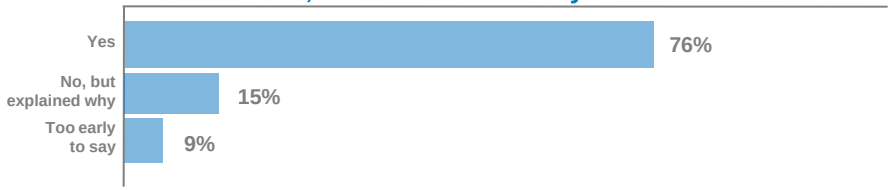
We received over 70 stakeholder responses - our results were very similar to last years'

How are we doing?

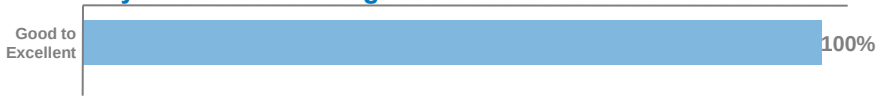
Was it a worthwhile use of time engaging with us?

Felt listened to and had a chance to have their say?

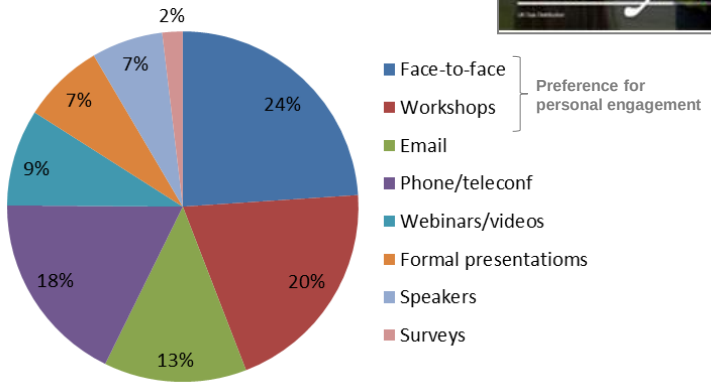
Did we act on feedback, or if not advised why not?



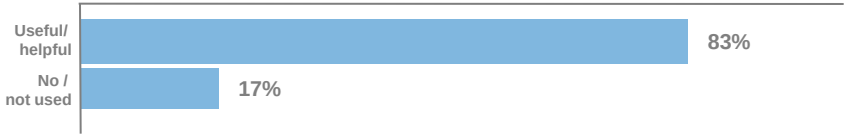
How would you rate the 'Talking Networks' web site?



How do you want to engage?



How useful were the fact sheets and pre-reading material



Treated fairly during the engagement?

Our stakeholders' feedback

What stakeholders have been telling us

Our RIIO priority *

We will deliver quality service to all

"Influencing the industry and involvement in industry groups including increased openness and transparency"

"Better coordination, planning and communication…"

"Improve image, planning and reputation around streetworks & working more collaboratively with LAs"

"Image and reputation fulfilling a vital role…"

Our RIIO priority*

We will keep you safe, warm and be reliable

"Raising profile… for how to keep customers safe"

"Carbon Monoxide safety and awareness…"

"Awareness of what NG/the industry does"

"Safe and efficient network"

"Shorter duration for repairing gas escapes and effective planning"

"Helping others less fortunate e.g. fuel poverty and vulnerability"

Our RIIO priority*

We will safeguard future generations

"Overhaul and completed modernisation of the bio-methane process"

"Product innovation"
"Promoting new ways of working"

"Innovation and promoting… renewable gas into the network"

"Focus on environment and sustainability"

Our RIIO priority*

We will provide value for money

"Make processes smoother for small companies"

"Providing the industry and its customer with value for money"

"Transparency of costs, how money is spent and how we are delivering on our RIIO targets"

"Paying suppliers in a timely manner and enabling small companies to participate e.g. innovation"

Our new stakeholder commitments - 2014/15

- Published April 2014
- Based on feedback
- Five key priorities – mapped to key outcomes to be achieved
- We will provide updates through the year and report in November

- Let us know your thoughts, we want to hear from you at any time

Talking Networks

- LISTEN
- DISCUSS
- ACT

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Our 12 new commitments – 2014/15

1. We will play our role in industry change, working collaboratively and across the industry whilst understanding the issues of others.
2. We will be active in our communities keeping them informed of local plans, working collaboratively with others for optimum solutions and increasing awareness and visibility of what we do
3. We will take an honest and open approach to develop effective working relationships listening to our stakeholders and acting on their feedback.
4. We will work collaboratively to deliver cross industry solutions for those in fuel poverty / vulnerability.
5. We will work collaboratively to deliver cross industry solutions related to Carbon Monoxide and other safety related issues.
6. We will work locally to deliver a safe reliable network, delivering innovation to minimise the impact of our works.
7. We will continue to improve and modernise the sustainable gas connections process.
8. We will focus on innovation facilitating new uses of gas sources
9. We will continue to articulate the story for gas, with a focus on the environment whilst providing long term value for money for consumers
10. We will provide transparency of costs and how money is spent as well as how we are delivering our RIIO targets.
11. We will focus on our end-to-end processes bringing improvements and efficiencies.
12. We will work across our supply chain, including smaller organisations, and identify areas for collaboration

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Distribution Transportation Charges

Dave Chalmers
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Tel: 07833 293690

Distribution Transportation Charges

Topics

- Charging calendar
- Change to level of distribution transportation charges for 2014-15
- How to calculate transportation charges for your site
- Information on Revenues and the future path of charges
- What would you like to see in future updates?

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Charging Calendar

- Distribution charges change on 1st April each year
  - Expected to apply for 12 months – No October change
  - Level of charges varies by distribution network
- Indicative charges for April published 2nd November
- Definitive charges for April published 1st February
- Quarterly Revenue Reports indicating potential level of future charges and uncertainties published quarterly:
  - Mid-January, April, July, October
- All information is published on Joint Office of Gas Transporters website: gasgovernance.co.uk

Current Distribution Charges

- Published 31st Jan - Small changes on 2013-14

Table 1. Average Change to Transportation Charges from 1st April 2014

	East of England	London	North West	West Midlands	Weighted Average
Average Change	-0.4%	+0.1%	-1.4%	+2.6%	+0.0%

How to calculate Transportation Charges for your Site

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- Charging Calculator available to estimate NTS and Distribution transportation charges for any UK site
- Uses Supply Point characteristics (Maximum peak day usage, annual usage, location, etc.) to estimate transportation charges
- At http://www.gasgovernance.co.uk/DNcharges
- Select: April 2014 Transportation Charge Calculator

How to calculate Transportation Charges for your Site - Inputs

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Charge Calculator Input Sheet

Reset Calculator to Default Values

Step 1 - Select Entry to Exit Information

Where are you Entering Gas into the System?	National Balancing Point (NBP)
Where are you Transporting Gas to?	Distribution / CSEP Connected Load
Please input Post Code	
Please input the Full Postcode	CV34 6DA
LDZ	WM3

Thank You Step 1 Complete

Step 2 - Please input Load / Site Required Information

Are you on a Shorthaul tariff?	No
Please enter your ratio of throughput for the period Oct - Apr. e.g. 55%	50%
Load Type	Firm Load
What type of load is the site, i.e. Daily Metered,	Non Daily Metered Site
Is the Site Monthly Read?	Yes

Thank You Step 2 Complete

Step 3 - Please provide the required usage (Demand / Peak Day Demand) information

Annual AQ kWhr/annum (AQ)	800,000
SOQ Calculation Method	EUC Code Entry
EUC Code (We suggest :E1304B)	xx:E1304W02
Load Factor	37.2%
Peak Day Usage kWhr/day (SOQ)	5,892

Thank You Step 3 Complete Please Review Result Page

Commentary

To ensure accuracy please reset the calculator each time a charge is estimated.

This calculator only gives an estimate of the annual charges for Transmission and Distribution Transportation Charges

This calculator does not include the NTS TO Entry Capacity Charges, NTS Shorthaul or LDZ Shorthaul Charges.

It is mandatory for supply points with an annual consumption greater than 293 MWh to be monthly read, however, at the shipper's request, sites below this consumption may also be classified as monthly read.

EUC Code	Annual Load (MWh)	Winter Annual Ratios (WAR)			
		W01	W02	W03	W04
xx:E1301B	0 to 73.2	-	-	-	-
xx:E1302B	73.2 to 293	-	-	-	-
xx:E1303B	293 to 732	0.00 - 0.49	0.49 - 0.58	0.58 - 0.68	0.68 - 1.00
xx:E1304B	732 to 2,196	0.00 - 0.49	0.49 - 0.58	0.58 - 0.68	0.68 - 1.00
xx:E1305B	2,196 to 5,860	0.00 - 0.44	0.44 - 0.53	0.53 - 0.63	0.63 - 1.00
xx:E1306B	5,860 to 14,650	0.00 - 0.38	0.38 - 0.48	0.48 - 0.58	0.58 - 1.00
xx:E1307B	14,650 to 29,300	0.00 - 0.37	0.37 - 0.41	0.41 - 0.51	0.51 - 1.00
xx:E1308B	29,300 to 58,600	0.00 - 0.36	0.36 - 0.41	0.41 - 0.51	0.51 - 1.00
xx:E1309B	> 58,600	-	-	-	-

For monthly read sites where the relevant meter reading history is available, the winter annual ratio (WAR) is the consumption from December to March divided by the annual quantity. If the required meter reading information is not available, the supply point is allocated to an EUC simply on the basis of its annual quantity.

How to calculate Transportation Charges for your Site - Outputs

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Charge Calculator Results

Distribution Network	**West Midlands**
Distribution Network Company	**National Grid**
Transmission Network Company	**National Grid**

Input Data

AQ (kWh/a)	800,000
Load Factor	37.2%
SOQ (kWh/pd/a)	5,892

The site is categorised as a Non Daily Metered Site
The site is categorised as a Firm Load
The site is connected to the Distribution Network
The site is a Non Daily Metered Site and read monthly
Transmission charges calculated on gas flows from National Balancing Point (NBP)
Transmission charges calculated on gas flows to Distribution / CSEP Connected Load

Distribution Network Charges		**Unit Rates**	
LDZ System Capacity	£3,742.01	0.1740	pence per peak day kWh per day
LDZ System Commodity	£222.40	0.0278	pence per kWh
LDZ Customer Charge (Capacity)	£227.96	0.0106	pence per peak day kWh per day
LDZ ECN Charge (Capacity)	£223.66	0.0104	pence per peak day kWh per day
TOTAL	**£4,416.03**		

Transmission Charges		**Unit Rates**	
NTS TO Exit Commodity Charge	£125.60	0.0157	pence per kWh
NTS SO Exit Commodity Charge	£172.00	0.0215	pence per kWh
TOTAL	**£297.60**		

Total Charge	**£4,713.63**

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Information on Future Charge Levels

- Quarterly Revenue Reports
  - Provide potential changes to charges for next 5 years
  - Particularly useful for likely changes for next year
  - April 2014 Revenue Report was published 15th April
  - Next report due mid-July
  - At http://www.gasgovernance.co.uk/0186may2014

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Apr-14 Quarterly Revenue Report (Simplified)

National Grid Gas Distribution						
NGGD Total Distribution Networks	**Update (Apr-14)**					
Description	**2013-14**	**2014-15**	**2015-16**	**2016-17**	**2017-18**	**2018-19**
Base Revenue	1,793.5	1,786.7	1,877.5	1,874.9	1,930.5	1,980.2
Pass Through	-	-	3.7	2.3	2.0	1.8
NTS Exit Capacity Revenue Adjustment	-	-	0.8	3.5	6.7	10.4
Shrinkage Allowance Rev Adjustment	-	-	-7.5	-12.6	-12.4	-12.6
Broad Measure of Customer Satisfaction Revenue Adjustment	-	-	5.1	5.0	5.2	5.2
Environmental Emissions Incentive Revenue Adjustment	-	-	6.2	5.3	5.4	5.2
Discretionary Reward Scheme Revenue Adjustment	0.9	0.8	-	-	-	-
Network Innovation Allowance Revenue Adjustment	3.2	7.7	8.3	9.5	10.7	12.0
Correction Term revenue Adjustment (K added)	6.1	-	-20.8	-0.0	-	-
Maximum DN Allowed Revenue (including NTS Exit)	1,803.7	1,795.2	1,873.4	1,888.0	1,948.3	2,002.2
Total Distribution Charges Arithmetical April Price Change (%)		0.0%	7.6%	3.9%	6.4%	5.9%

Impact on Typical Domestic Consumer Bill (15,300 kWh/a in 2014-15 reducing by SOQ change each year)		2014-15	2015-16	2016-17	2017-18	2018-19
Bill Impact in 2014-15 prices		£138.79	£141.43	£137.85	£138.19	£137.40
Year-on-Year % Change (excluding inflation)			1.9%	-2.5%	0.2%	-0.6%

SOQ October Impact Assumption						
Annual October SOQ Assumption	-1.2%	-3.0%	-3.0%	-3.0%	-3.0%	-3.0%

What would you like us to cover in future Pricing updates in this Forum?

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Refreshment Break

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… Theft of Gas

Theft of Gas activities

Background… *progress to date*

Theft

- Ofgem ‘Theft of Gas’ consultation
- Dedicated Theft of Gas team set up
- Theft of Gas Policy documented
- Theft of Gas Management Procedure documented
- SPAA Theft Code of Practice
- £150k recovered from consumers to date

Demarcation of responsibility

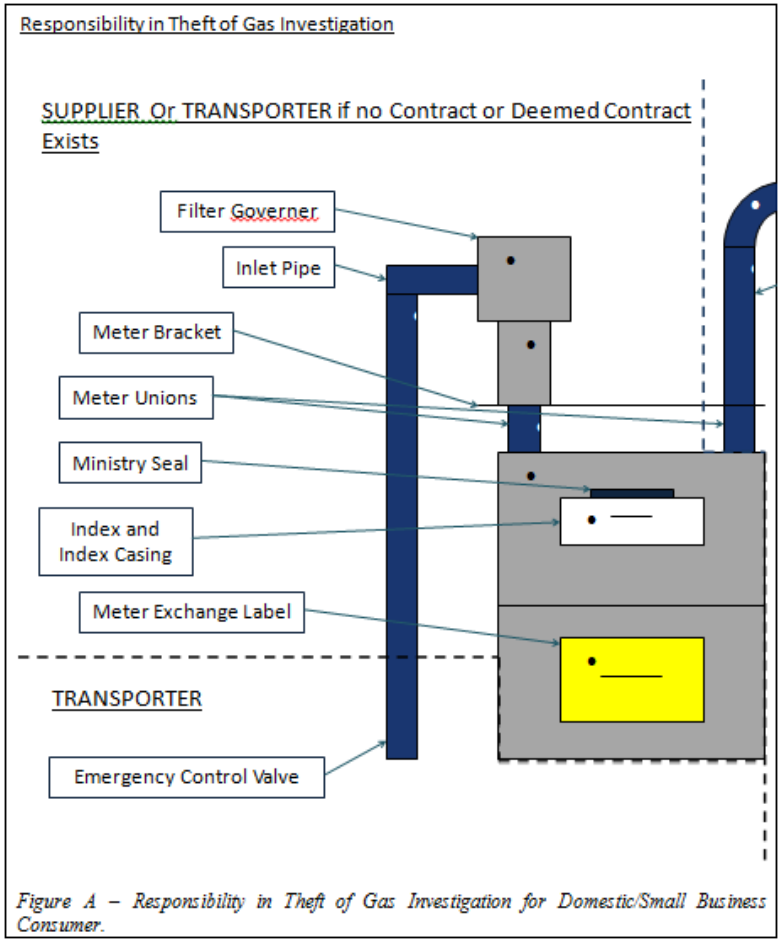
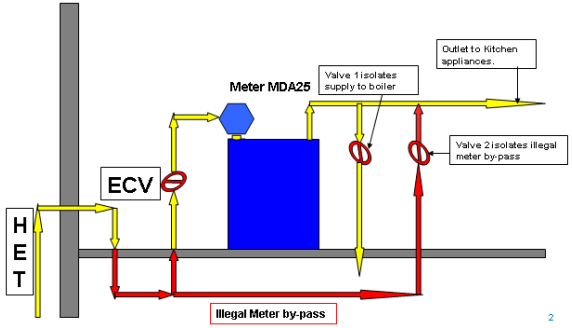
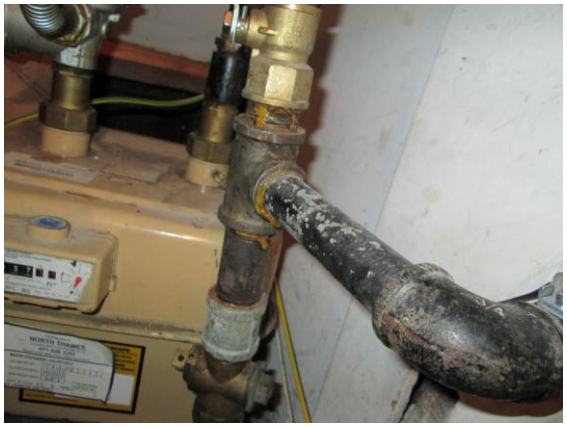


Figure A – Responsibility in Theft of Gas Investigation for Domestic/Small Business Consumer.

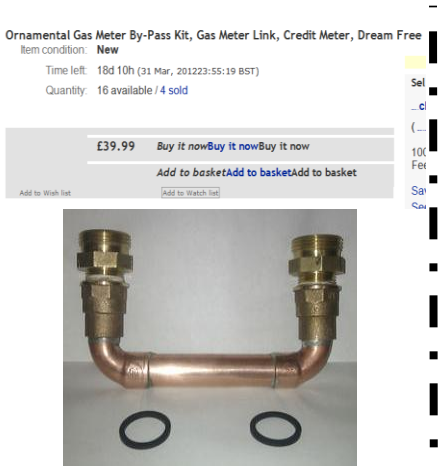
Transporter responsible

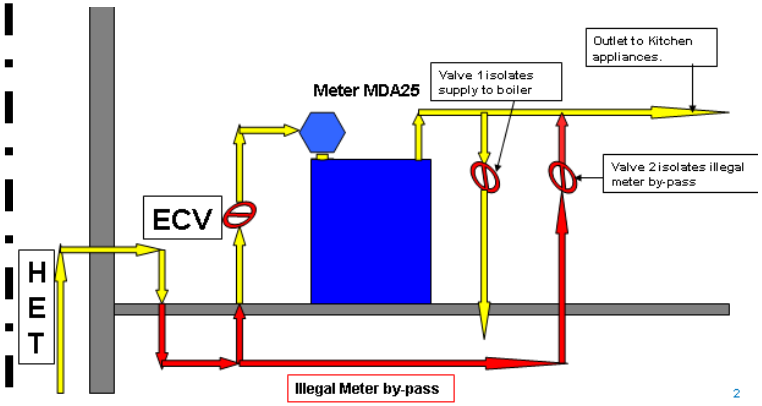


Shipper responsible



Theft in pictures

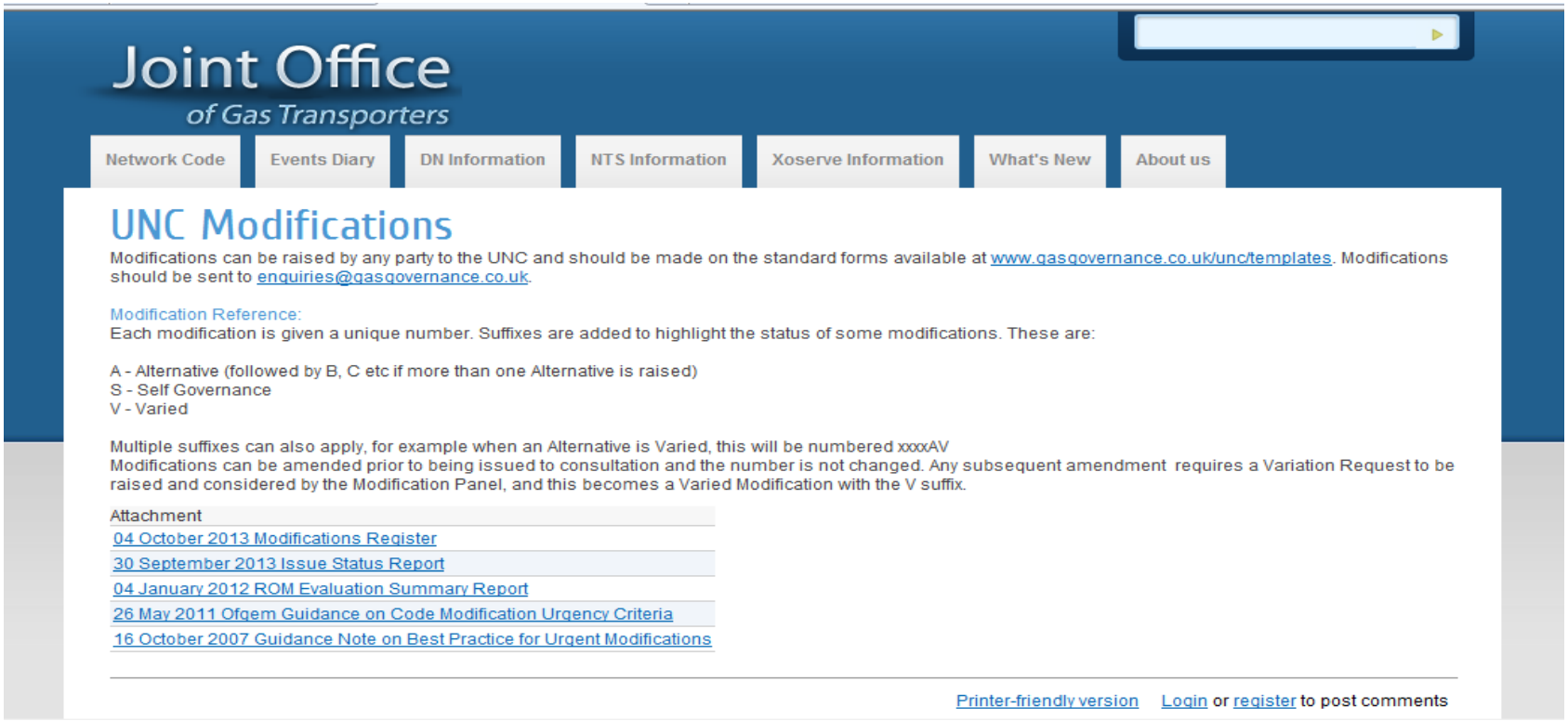




UNC Modifications Update

Chris Warner / Alan Raper

UNC Modifications



- For further information or the full list of modifications you can visit the Joint Office of Gas Transporters website:
  - www.gasgovernance.co.uk/mods

Mods Register

Firm Load Shedding

Liz Fearn

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NGSE Stages

	Network Gas Supply Emergency Classification		
	Gas Deficit: Insufficient Gas Supplies Available to the NTS		Critical Transportation Constraint in the NTS
Emergency Stage	Gas Deficit Emergency	Safety Monitor Breach	Critical Transportation Constraint

1 (Potential)	• Emergency Spec Gas
	• NTS Linepack
	• Distribution Network Utilisation
	  ○ Distribution Network Storage
	  ○ Emergency Interruption
	• Public Appeals
		• Instruct shippers & storage operators to amend storage flows
		• Distribution Network Utilisation
		  ○ Emergency Interruption
		• Public Appeals
			• Emergency Spec Gas
			• NTS Linepack
			• Distribution Network Utilisation
			  ○ Distribution Network Storage
			  ○ Emergency Interruption
			• Public Appeals

2	• National Grid Gas plc's participation in the OCM will be suspended • Maximise Supplies • Firm Load Shedding • Public Appeals	• National Grid Gas plc's participation in the OCM will be suspended • Maximise Supplies • Firm Load Shedding • Public Appeals	• National Grid Gas plc will continue to participate in OCM • Maximise Storage • Firm Load Shedding • Public Appeals
3	• Public Appeals • Allocation & Isolation	• Public Appeals • Allocation & Isolation	• Public Appeals • Allocation & Isolation
4	• Restoration		

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Process of Firm Load Shedding

- Each listed will be contacted, largest load first, by their DN and directed to load shed
  - Sites are expected to reduce load as quickly and efficiently as possible
  - All sites should have plans in place to reduce load
- This is a requirement under GSMR and you will be issued with a Direction Notice
- Failure to comply is reportable to the HSE
- There are no guaranteed supplies

Since last year

- The script used during exercises, is under review
  - Use of language ‘direct’ or ‘request’
- The current requirements of Firm Load Shedding, defined in UNC, require further guidance
- Using annual Firm Load Shedding validation activities to collate further site and load information, to assess the potential success of Firm Load Shedding

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Next Steps

- Significant Code Review is in progress
  - Awaiting potential changes to Emergency process, including load shedding
- Additional guidance to be provided to the Industry regarding Firm Load Shedding Process
- Review and re-issue an updated version of Large End User leaflet

Exercise Viper 2014

- Strategic decision-making exercise between Transporters
- NEC exercise may not take place on same date as Firm Load Shedding tests.
  - Each DN to perform Firm load shedding of 200 sites per network or 10% network load.
- Usual communication test, to contact the largest sites in each network requesting cooperation in Firm Load Shedding

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Lunch

UK Future Energy Scenarios



Nigel Fox
Energy Strategy & Policy

Agenda

- Overview of our Scenarios
- Economic Outlook and Fuel Prices
- Gas demand
- Gas supply
- Near Term Uncertainties

Why scenarios?

Single forecast for supply and demand not sufficient

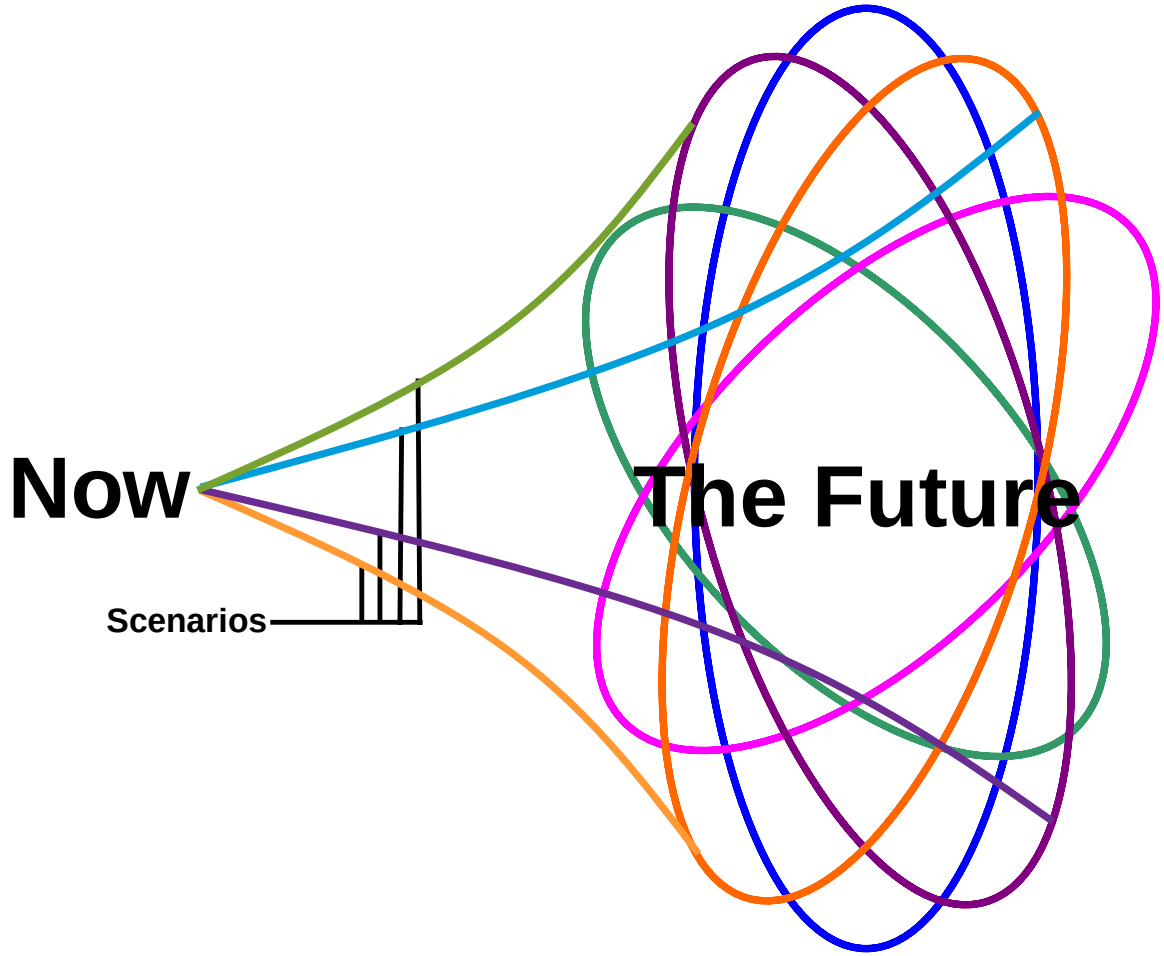
- Demand increasing | St Fergus | Gas dominant choice in generation
- More diverse supplies, new technologies, legislation, economic conditions
- Short term and long term uncertainty regarding the future of energy
- Infrastructure lasts a long time

Scenarios encompass a broad range of possible energy futures and address uncertainty

- Review trends/projections for power demand → gas gen reqmts
- Review gas demand and supply scenarios
- We can plan our investments, inform our stakeholders and manage operational risk

Why scenarios?

Two scenarios last year – "Gone Green" and "Slow Progression"



- Political Uncertainty
- Economic Uncertainty
- Social Uncertainty
- Technology Uncertainty
- Environmental Uncertainty

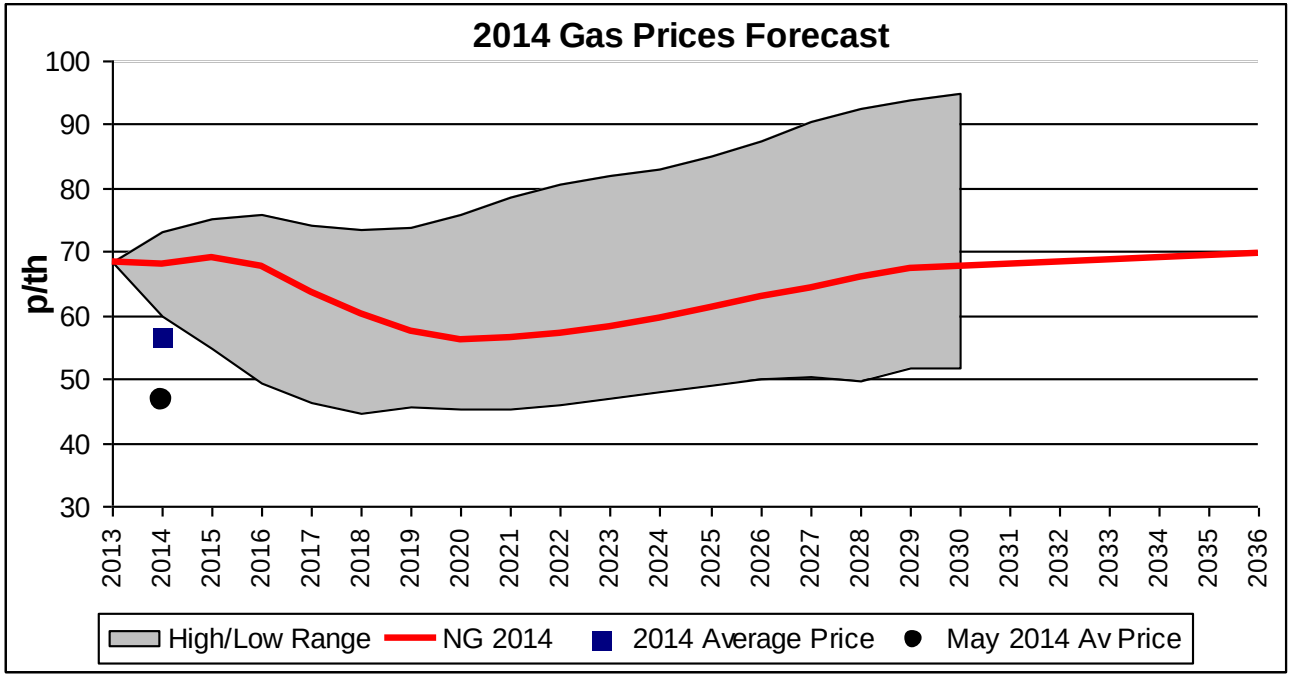
Economic Outlook & Fuel Price

- Scenarios take economic and fuel price projections from Industry experts
- Is the UK economy returning from recession?
- Uncertainty remains (Europe short term and impact on exports)

- Long run growth 2% - 2.5%
- Sectoral changes masked – service sector has grown rapidly, expect to outpace sectors

Fuel Prices

- Few are consummate at predicting prices
- If we focus on the trend, expectation of price decline and rise with global growth



- Expectation of closer global prices, more liquid markets, more supply than demand
- But risk that projects could be deferred, growth is faster or slower…
- Effects on CHP

Gas Demand

- Residential demand (40%)
- Industrial & commercial demand (30%)
- Power generation demand (20%)
- Exports to Ireland (10%)
- Residential falling but predictable
- US Shale and coal exports

Annual Gas Demand – Industrial and Commercial markets

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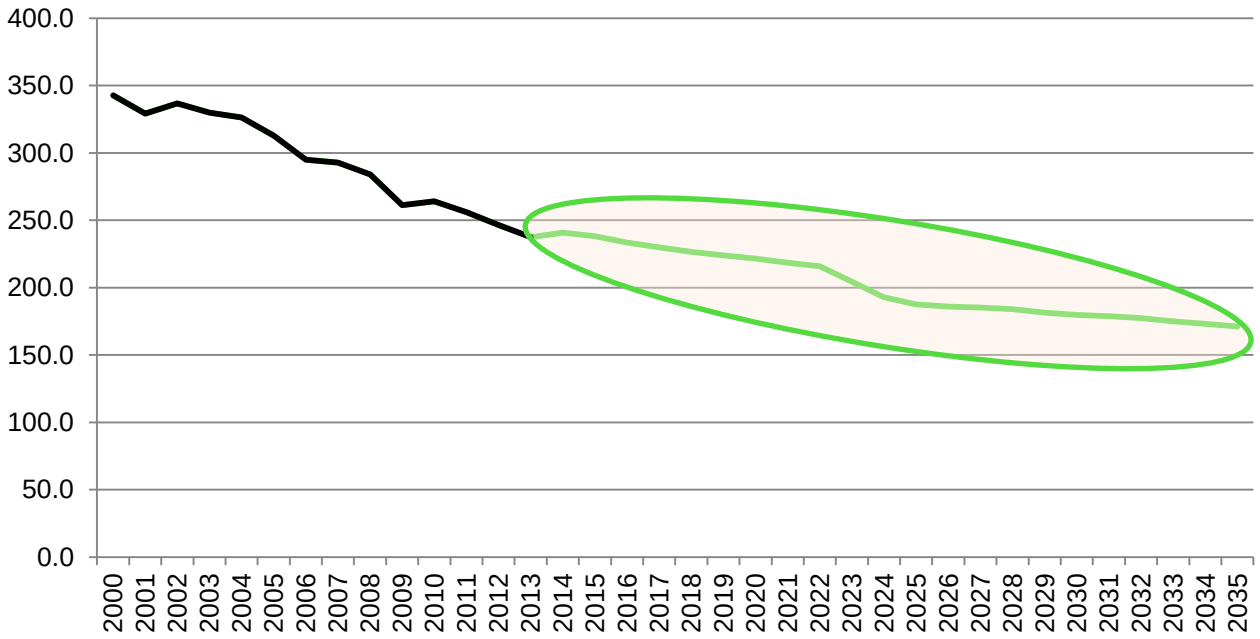
Uncertainty combined with decline in consumption since 2000

Economic conditions competitiveness / efficiency / fuel switching

Some switch to biomass

Will demand plateau?



Econometric models underpin scenarios based on historic trends in gas demand and economic activity and show fuel differentials leading to > CHP

Gas Supply

- Indigenous production
- Shale Gas & Biomethane
- Global Markets – LNG vs Continent

Capacity available but uncertainty as to what will fill the gap

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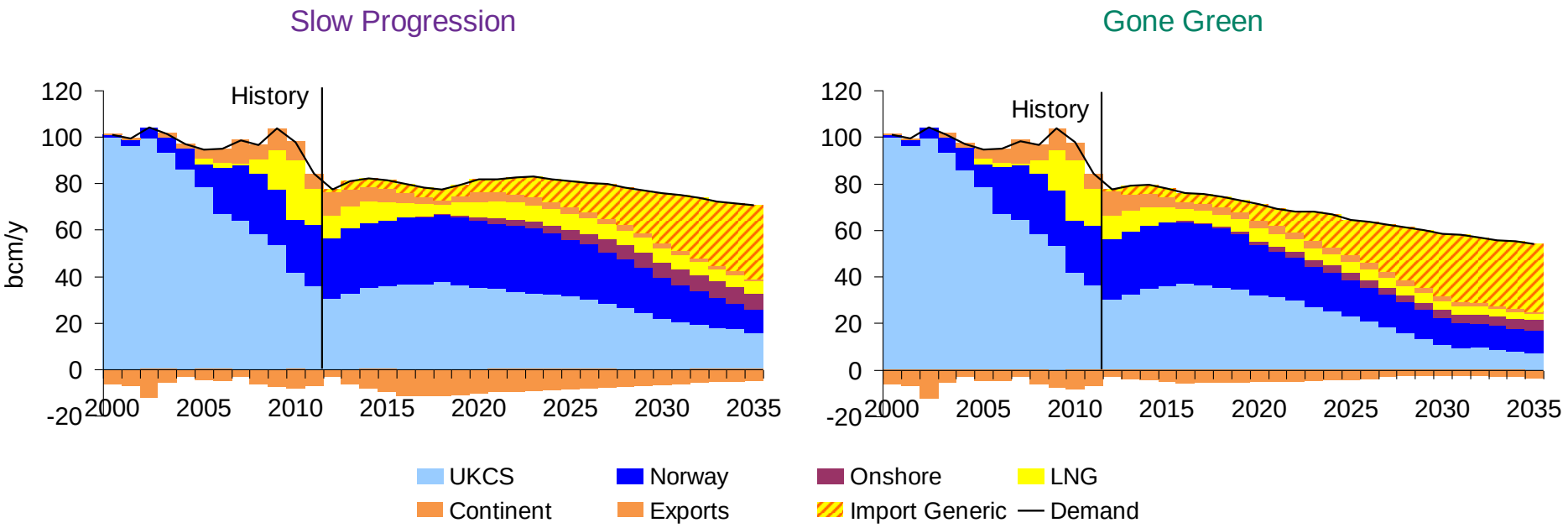

- LNG or Continent to make up shortfall?
- Last 2 yrs continental supplies have prevailed
- Influences: ↑global production, ↑SE Asia demand
- Uncertainty in Russia, new routes to Ukraine
- Europe diversifying its energy accessibility

Uncertainties

- Economic conditions and future prices?
- Unconventional supplies?
- Energy Policy – post election market reaction?
- Industrial Emission Directive – choice of solution?

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Thank You

Nigel Fox
Energy Strategy & Policy

2013/14 Winter Review
Prevailing View overview

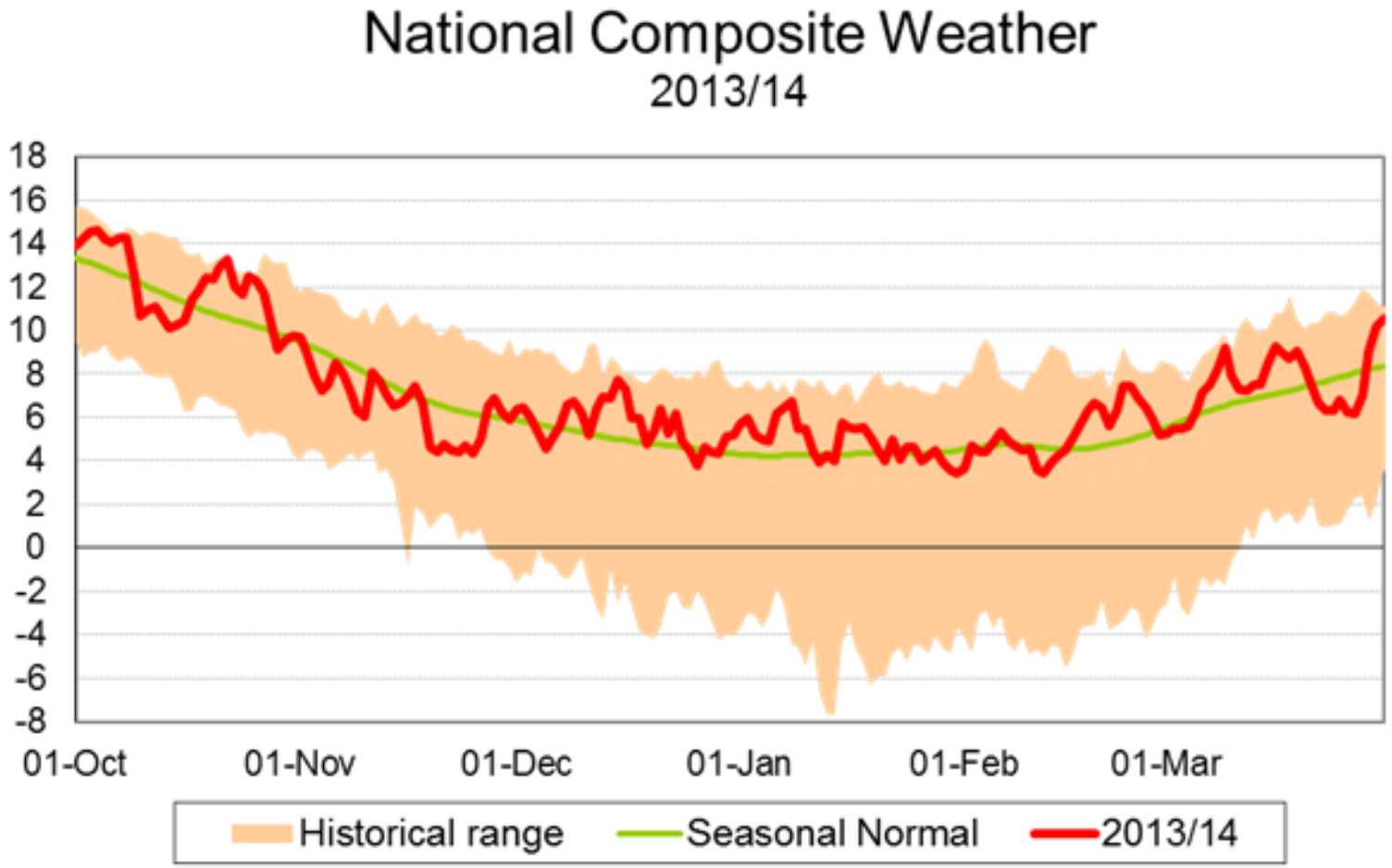
Gary Dolphin
Market Operation

21 May 2014

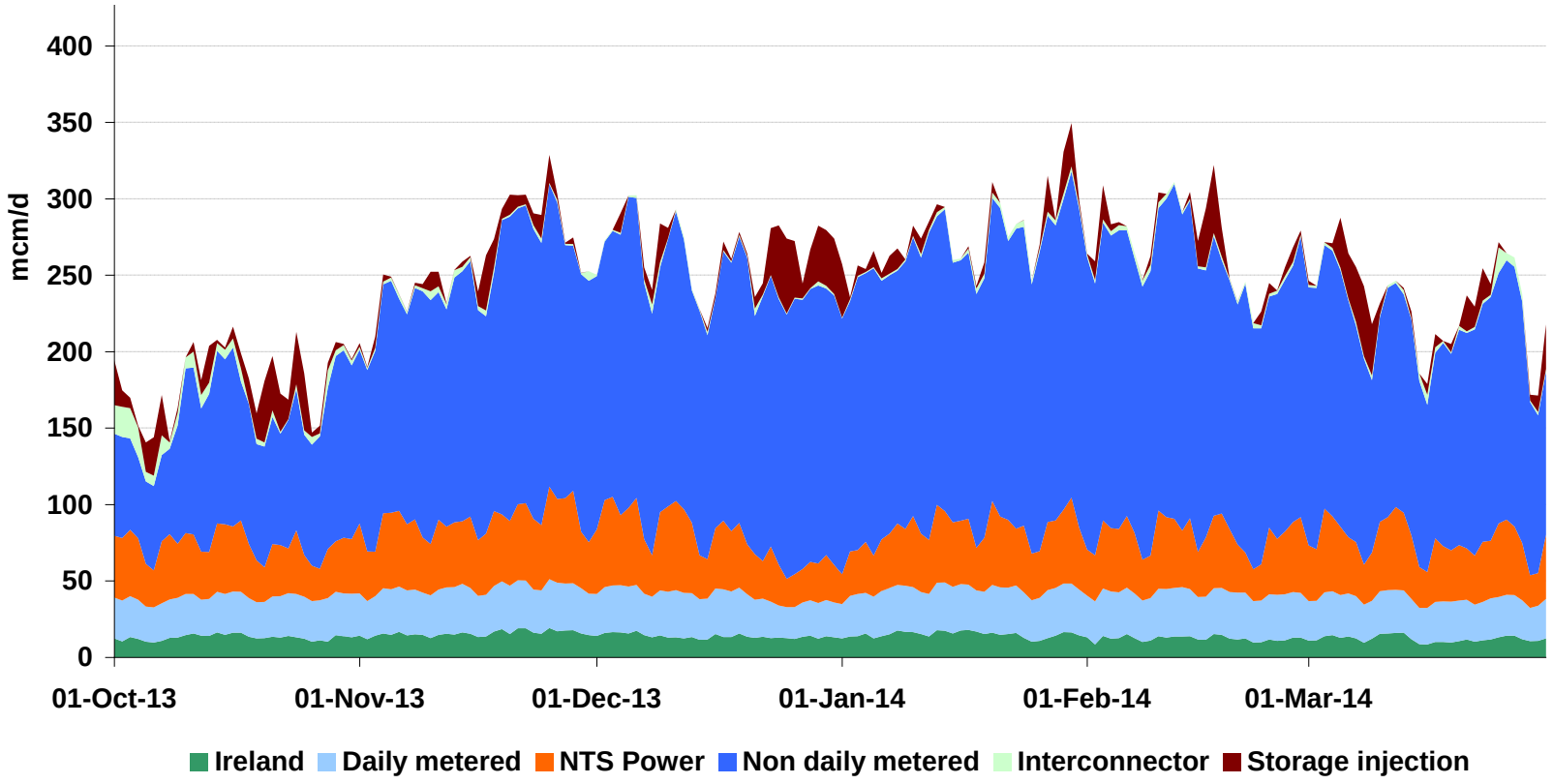
Agenda

- Winter Review
- Gas Market Information, incl. Prevailing View

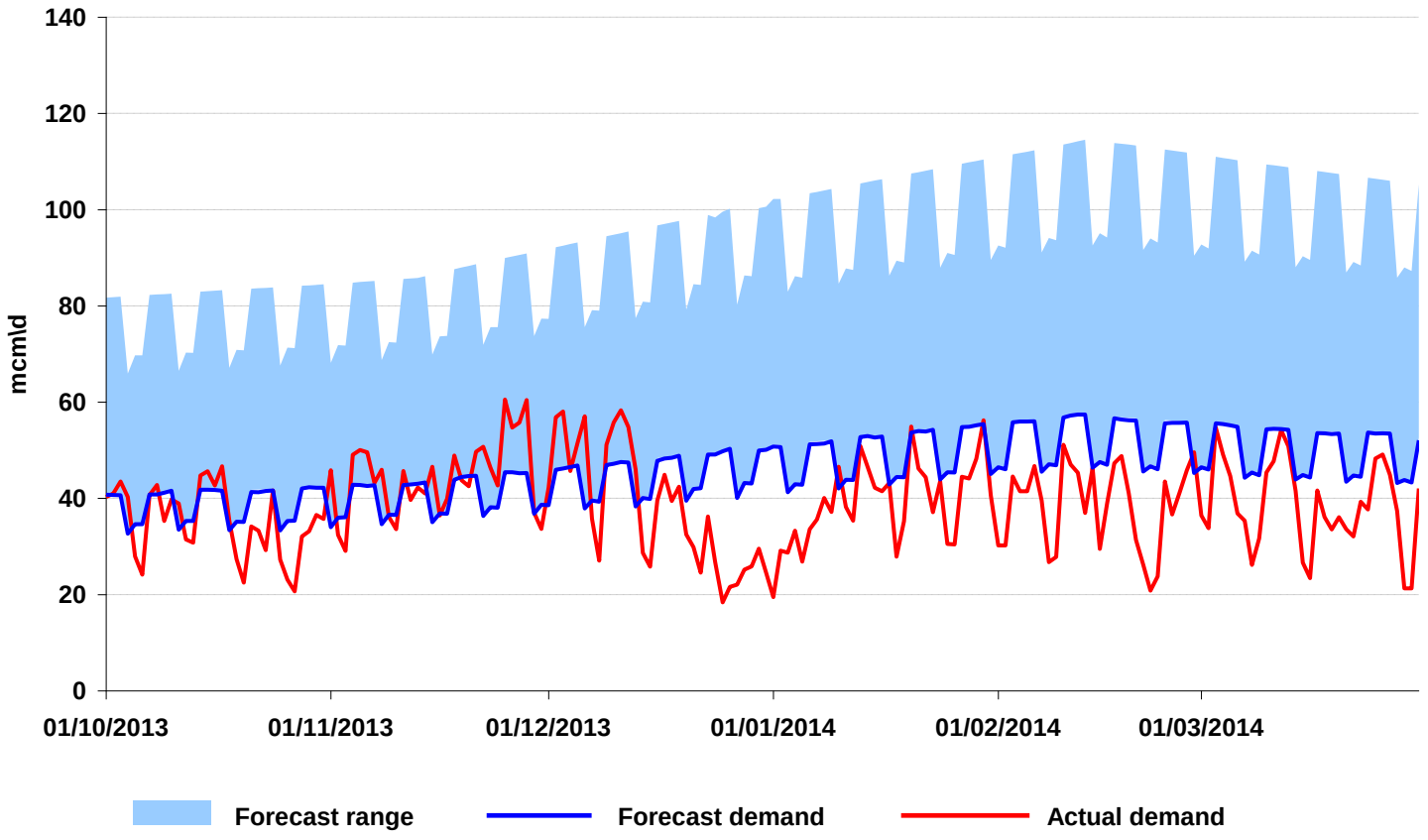
Winter 2013/14



Winter Gas Demand 2013/14

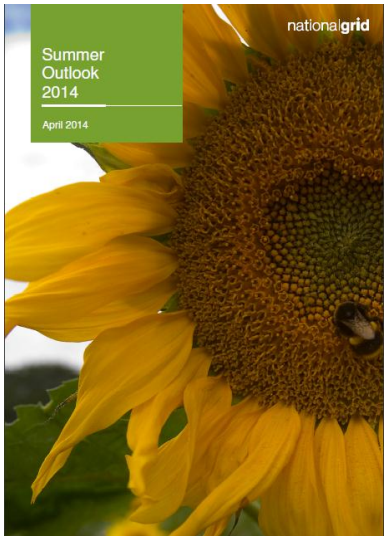


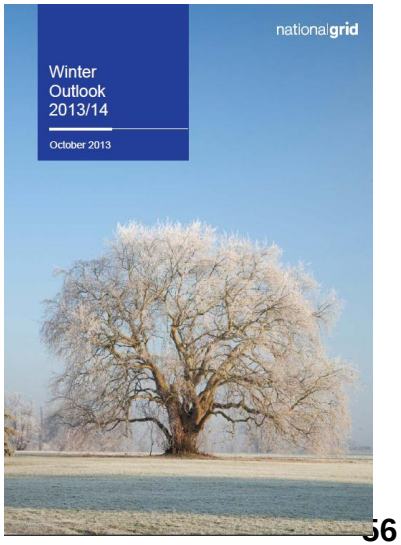
Winter 2013/14 Power Generation Demand



The Summer and Winter Outlooks

2014 Summer Outlook – April 2014
2014/15 Winter Consultation – Early July 2014
2014/15 Winter Outlook – Early October 2014





We want to hear from you…

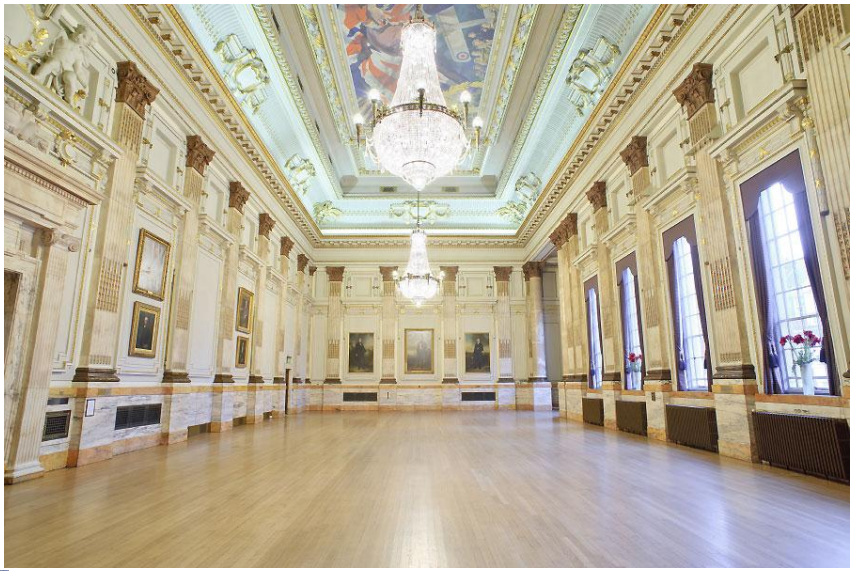
- We've been producing the Summer Outlook Report since 2008 and the Winter Outlook Report for over a decade
- Now is the time for a review of the Outlooks
  - How do you use the Summer and Winter Outlooks?
  - Are they of value to you?
  - What is important to you within the Outlooks?
  - How could they be improved?
  - How can we improve our engagement with you?
  - How should we engage with you?
  - What do you really want?

Please contact me

Gary Dolphin
gary.dolphin@nationalgrid.com
01926 656210

2014 Future Energy Scenarios

- FES 2014 Conference
- Thursday 10th July, One Great George Street, Westminster
- Our new 2014 scenarios
- Presentations and exhibition



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Gas Market Information Provision

Agenda

1. Introduction to MIPI
2. Prevailing View
3. Data Item Explorer
4. Report Explorer
5. Instantaneous Flows
6. API’s
7. Contact Us

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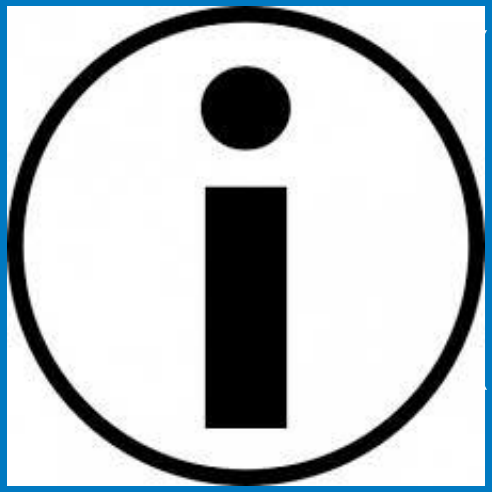
MIPI



What is MIPI?

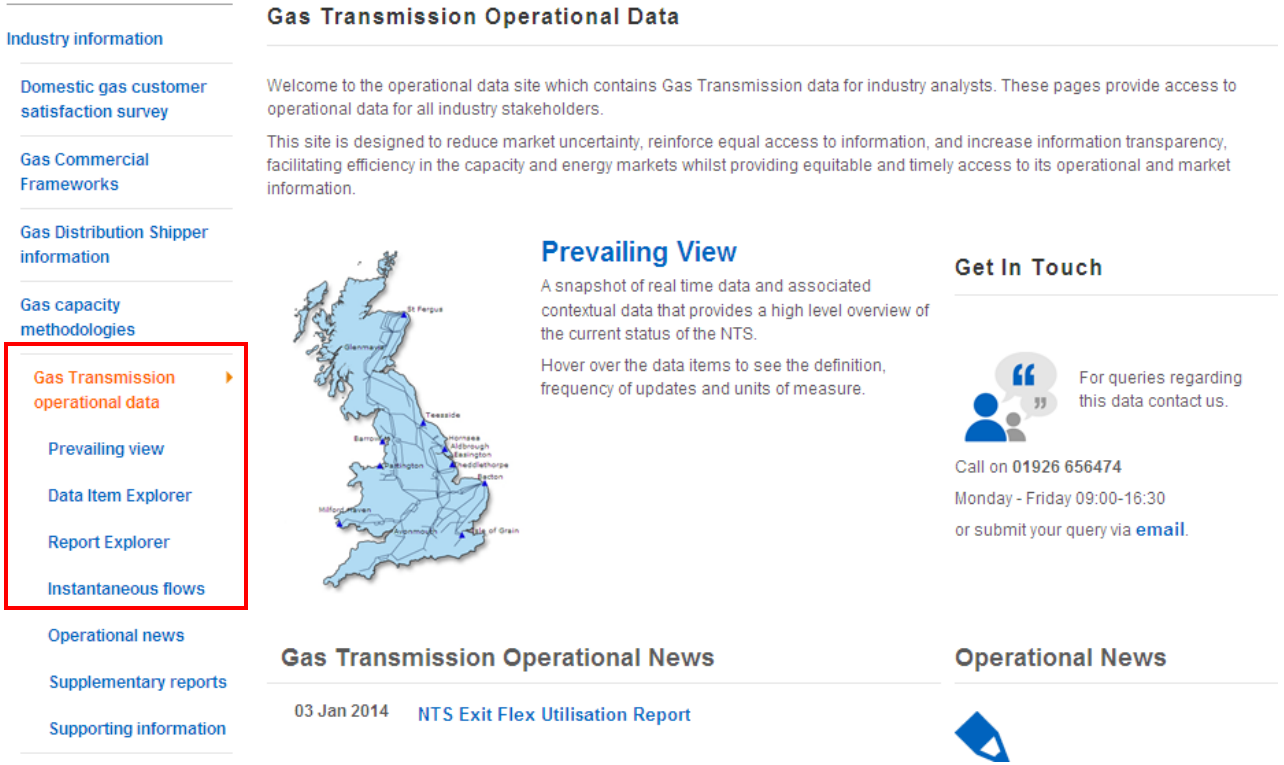
Market Information Provision Initiative

- 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 (Energy Flow data)
  - MIPI (Market Information data)

Operational Data

Gas Transmission Operational Data

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



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

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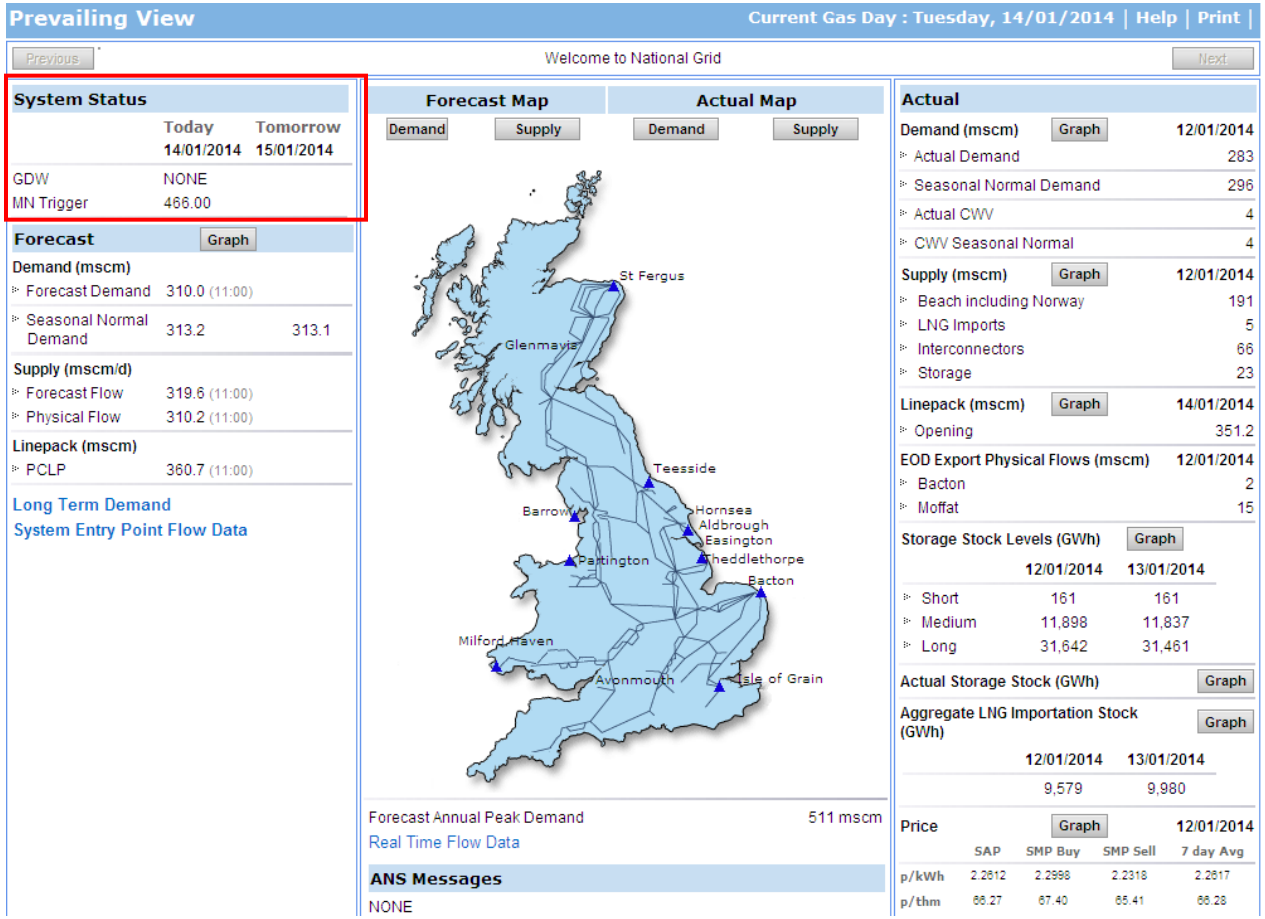
Prevailing View

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.

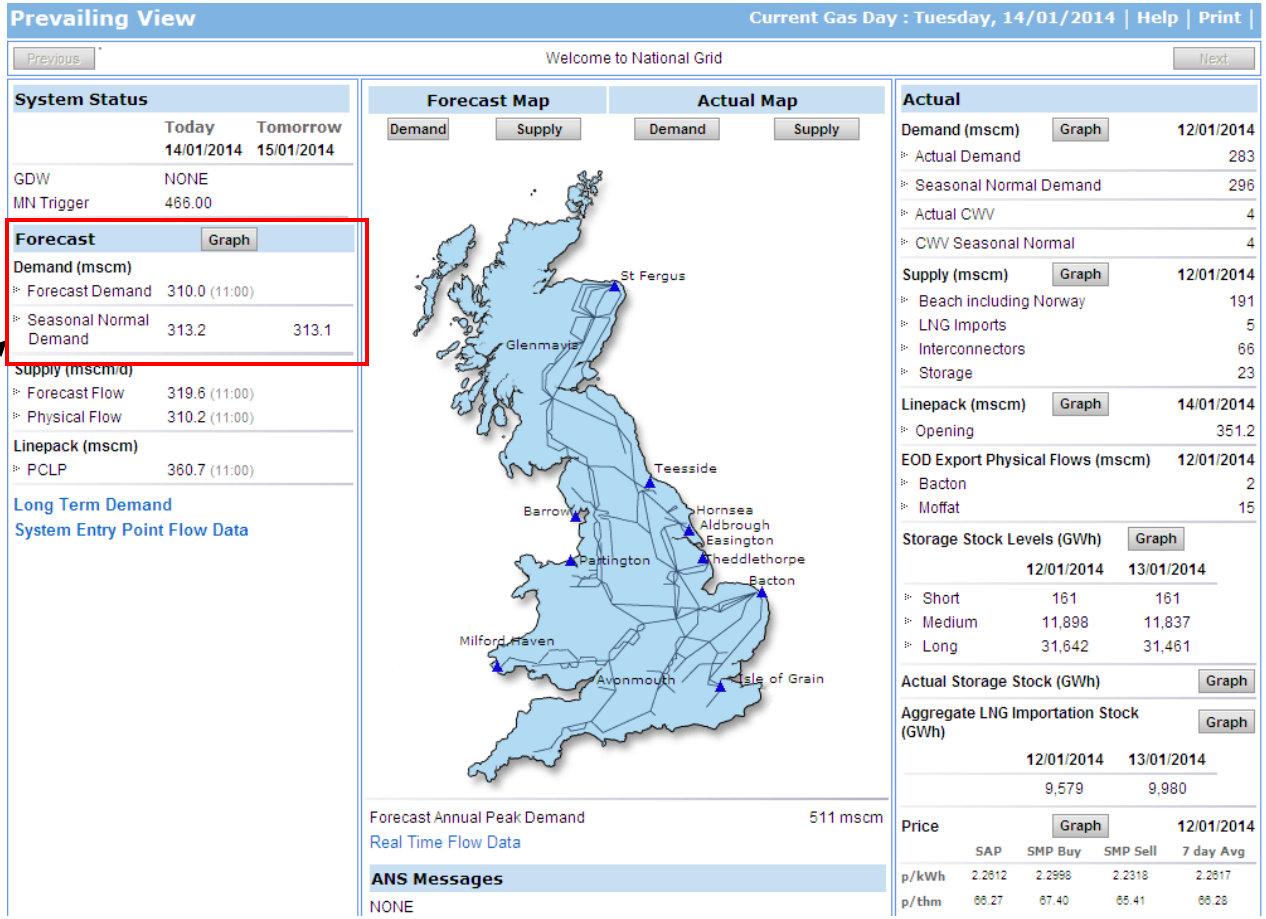


Prevailing View

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

Demand Forecast
- Updated hourly.
- The amount of gas demand that is expected from the NTS for the given Gas Day

Seasonal Normal Demand
- Updated daily
- An expected amount of demand based upon a seasonal normal year profile.

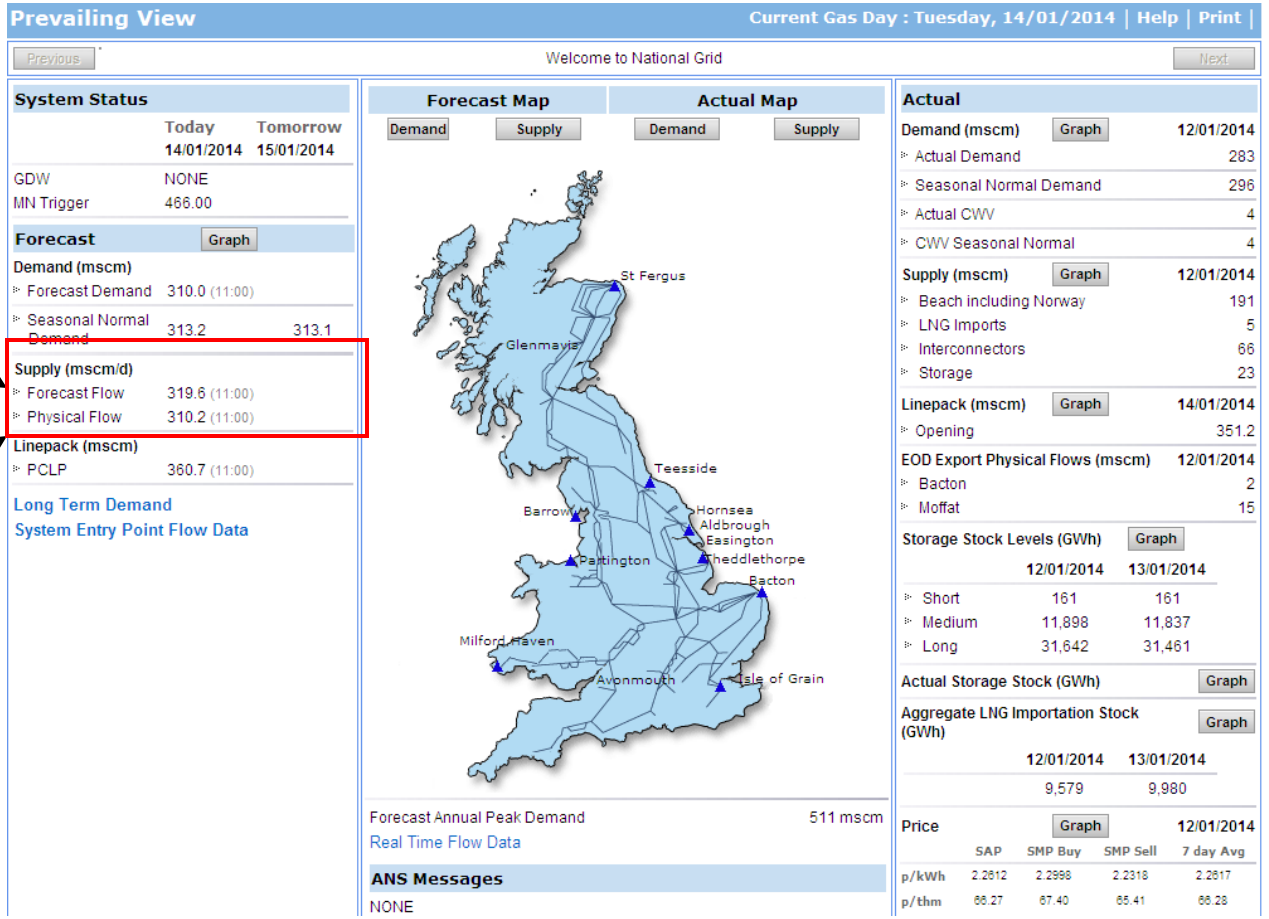


Prevailing View

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

Supply
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.



Prevailing View

- A single screen snapshot of the latest available information (forecast and actual).
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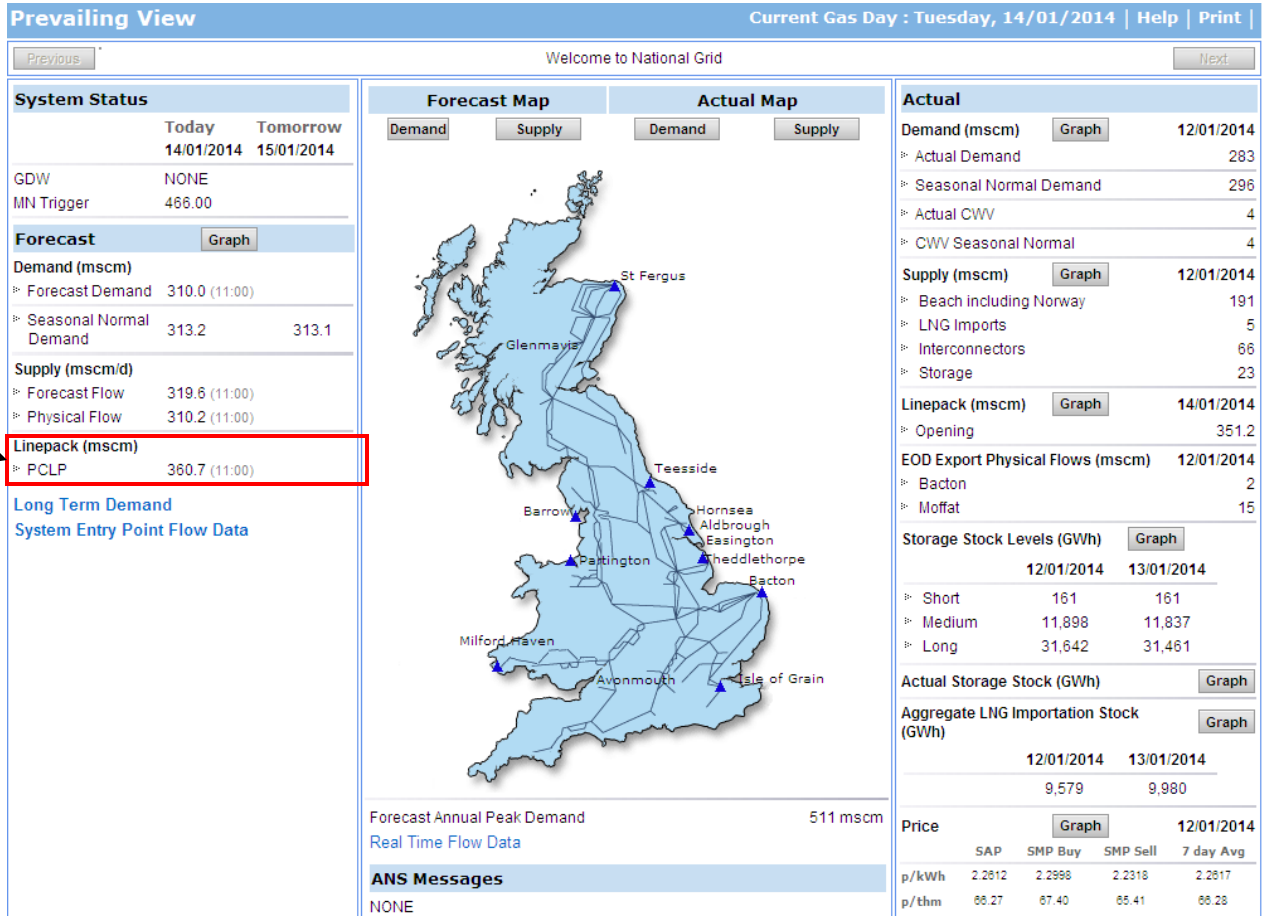
Linepack
PCLP
(Predicted Closing Linepack)
- Updated hourly
- PCLP = Opening linepack + latest supply estimate – latest demand estimate



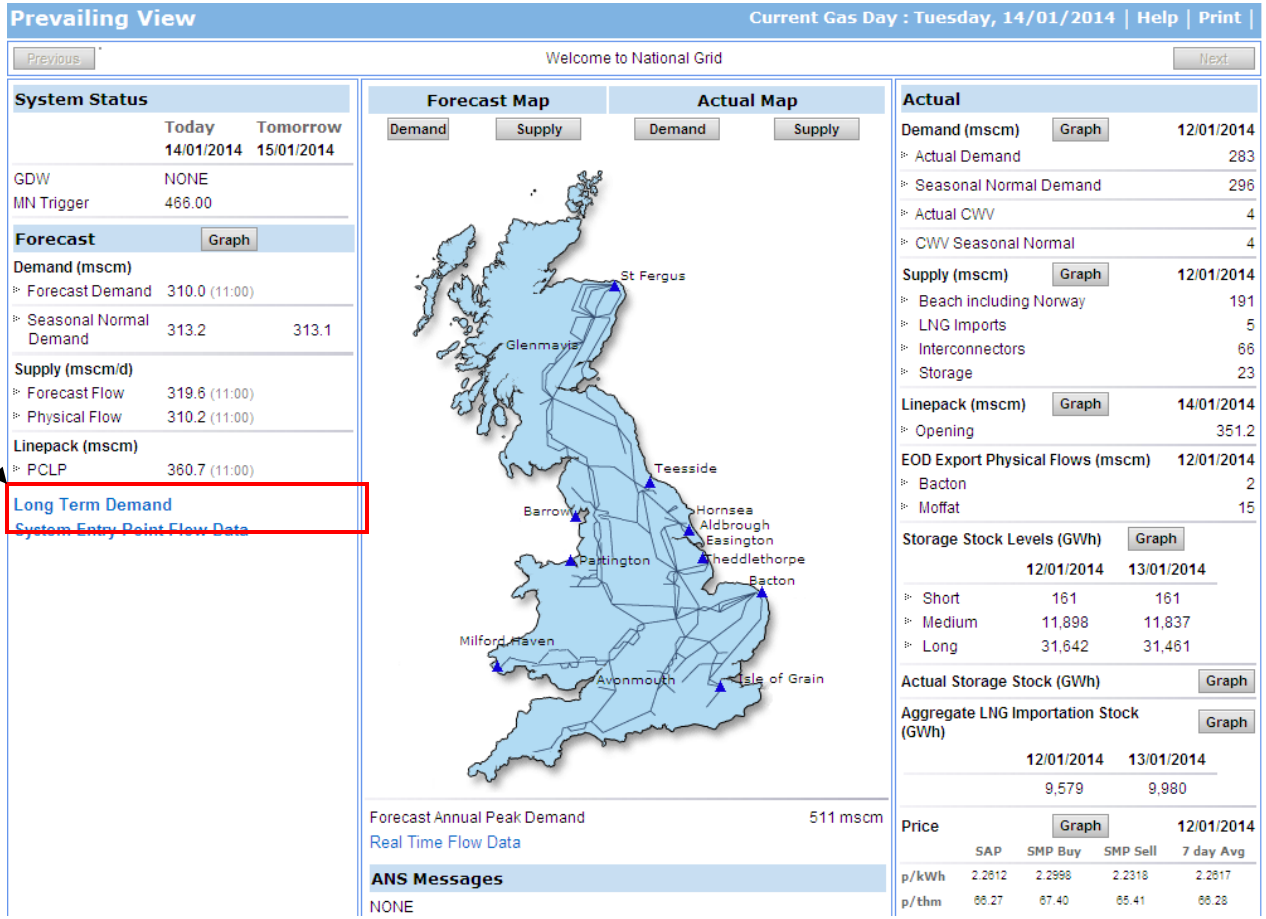
Prevailing View

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

Long Term Demand
- Updated daily
- Physical demand forecast for the NTS 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).
- Updated throughout the day as new information becomes available.

System Entry Point Flow Data

- Updated throughout the gas day.
- See the Instantaneous Flows page for full scope of data.

System Entry Point Flow Data for 03/04/2014

System Entry Name	Flow Rate (mscm/d)
ALDBROUGH	0.00
AVONMOUTH	0.00
BACTON BBL	21.15
BACTON IC	0.00
BACTON OTHER	6.09
BACTON SEAL	8.09
BACTON SHELL	10.70
BARROW SOUTH	3.47
DYNEVOR ARMS	0.00
EASINGTON DIMLINGTON	10.37
EASINGTON LANGELED	25.31
EASINGTON ROUGH	0.00
GLENMAVIS	0.00
GRAIN NTS 1	0.00
GRAIN NTS 2	0.00
HILLTOP	0.00
HOLFORD	22.53
HORNSEA	0.02
MILFORD HAVEN - DRAGON	0.00
MILFORD HAVEN - SOUTH HOOK	29.61
PARTINGTON	0.00
ST FERGUS MOBIL	13.83
ST FERGUS SHELL	27.77
ST FERGUS TOTAL	11.56
STUBLACH	0.00
TEESSIDE BP	8.13
TEESSIDE PX	11.65
THEDDLETHORPE	13.03

Prevailing View — Current Gas Day : Tuesday, 14/01/2014 | Help | Print |

Previous — Welcome to National Grid — Next

System Status

	Today 14/01/2014	Tomorrow 15/01/2014
GDW	NONE	
MN Trigger	466.00	

Forecast Graph

Demand (mscm)		
Forecast Demand	310.0 (11:00)	
Seasonal Normal Demand	313.2	313.1
Supply (mscm/d)		
Forecast Flow	319.6 (11:00)	
Physical Flow	310.2 (11:00)	
Linepack (mscm)		
PCLP	360.7 (11:00)	

Long Term Demand

System Entry Point Flow Data

Forecast Map Demand Supply — **Actual Map** Demand Supply

Forecast Annual Peak Demand 511 mscm

Real Time Flow Data

ANS Messages

NONE

Actual

	Graph	12/01/2014
Demand (mscm)		
Actual Demand		283
Seasonal Normal Demand		296
Actual CWV		4
CWV Seasonal Normal		4
Supply (mscm)	Graph	12/01/2014
Beach including Norway		191
LNG Imports		5
Interconnectors		66
Storage		23
Linepack (mscm)	Graph	14/01/2014
Opening		351.2
EOD Export Physical Flows (mscm)		12/01/2014
Bacton		2
Moffat		15

Storage Stock Levels (GWh) Graph

	12/01/2014	13/01/2014
Short	161	161
Medium	11,898	11,837
Long	31,642	31,461

Actual Storage Stock (GWh) Graph

Aggregate LNG Importation Stock (GWh) Graph

12/01/2014	13/01/2014
9,579	9,980

Price Graph 12/01/2014

	SAP	SMP Buy	SMP Sell	7 day Avg
p/kWh	2.2612	2.2998	2.2318	2.2617
p/thm	66.27	67.40	65.41	66.28

Prevailing View

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

Prevailing View — Current Gas Day : Tuesday, 14/01/2014 | Help | Print |

Previous — Welcome to National Grid — Next

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Long Term Demand
System Entry Point Flow Data

Forecast Map | **Actual Map**

Demand | Supply | Demand | Supply

Forecast Annual Peak Demand 511 mscm
Real Time Flow Data

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Prevailing View — Current Gas Day : Tuesday, 14/01/2014 | Help | Print |

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Long Term Demand
System Entry Point Flow Data

Forecast Map | Actual Map
Demand | Supply | Demand | Supply

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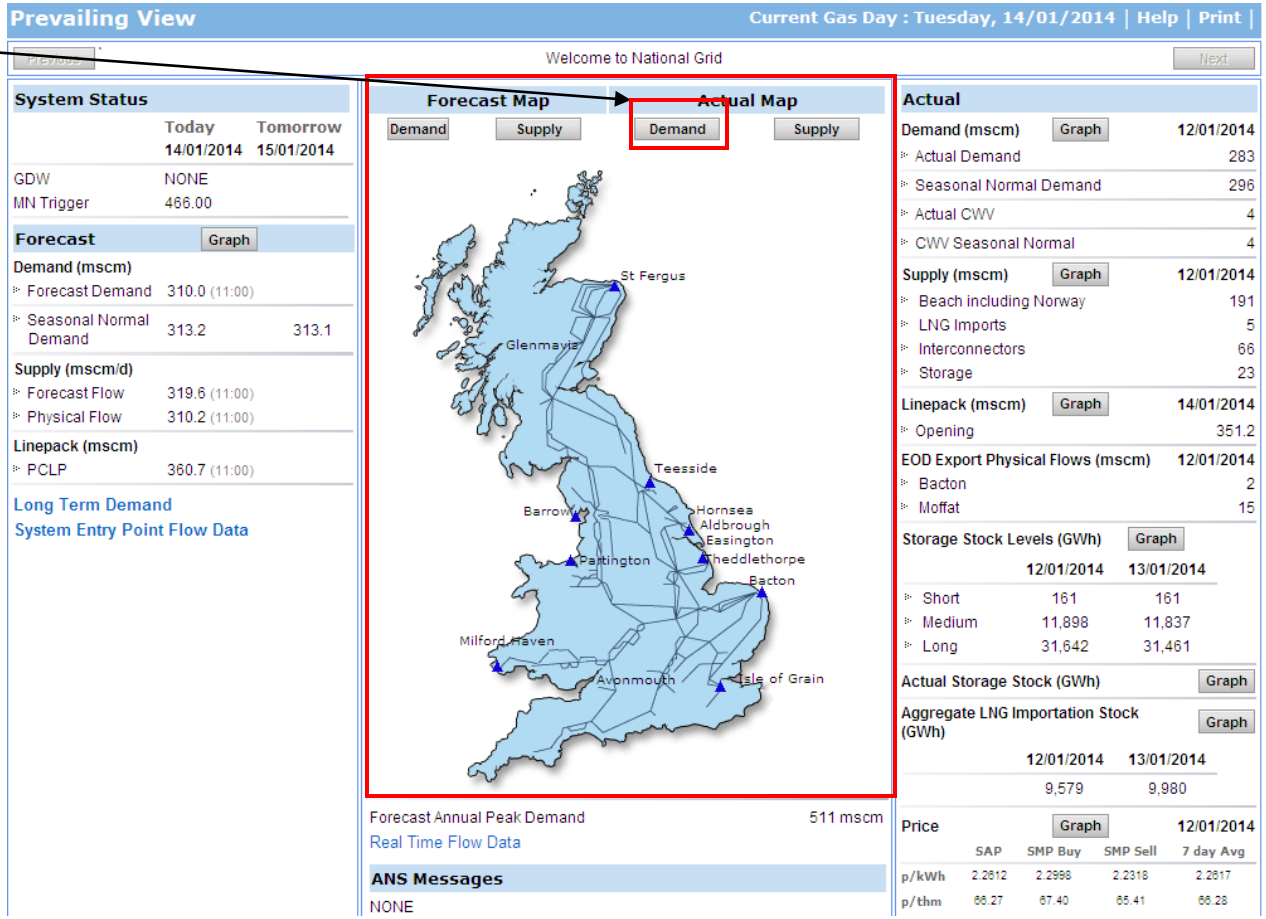
Actual Demand



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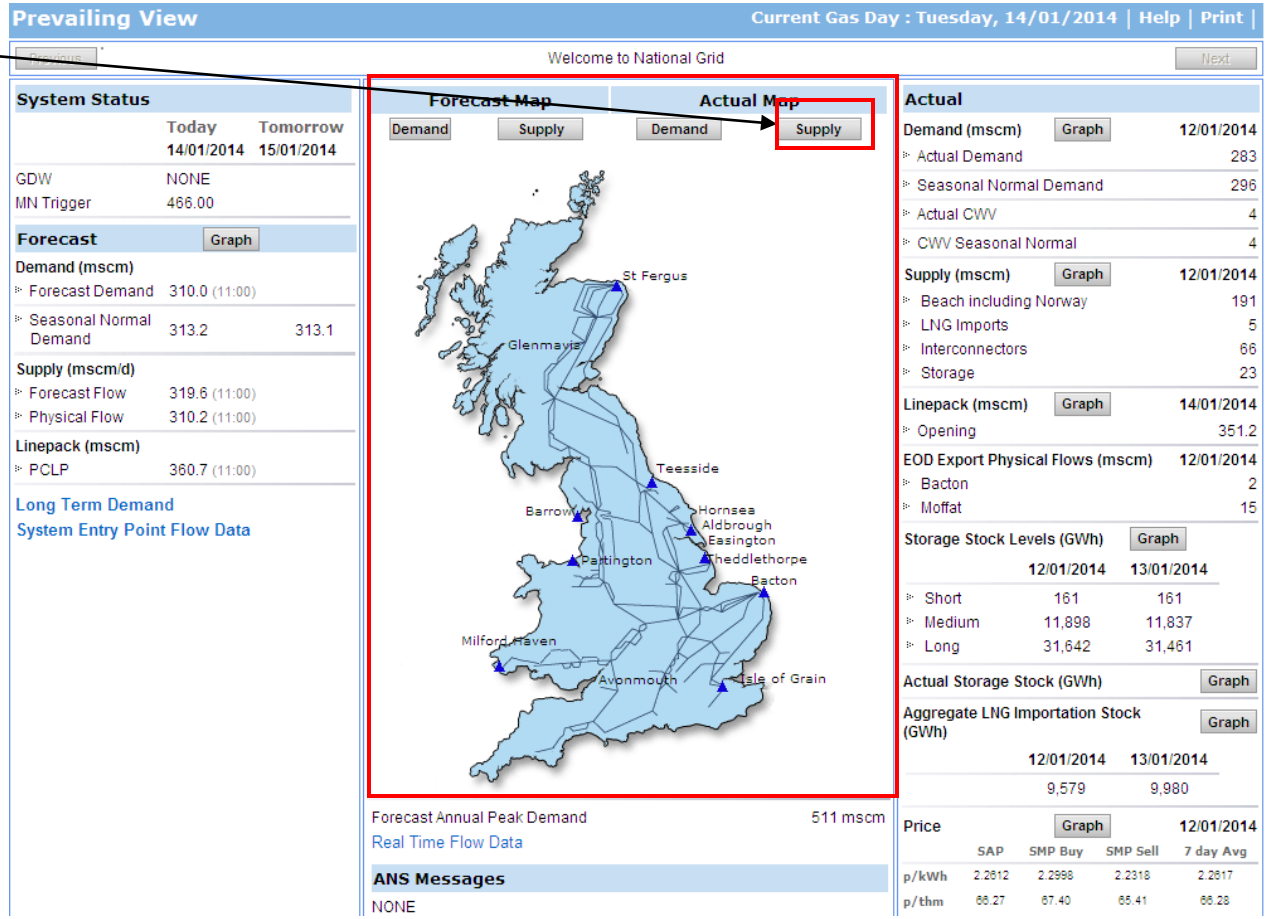

Prevailing View

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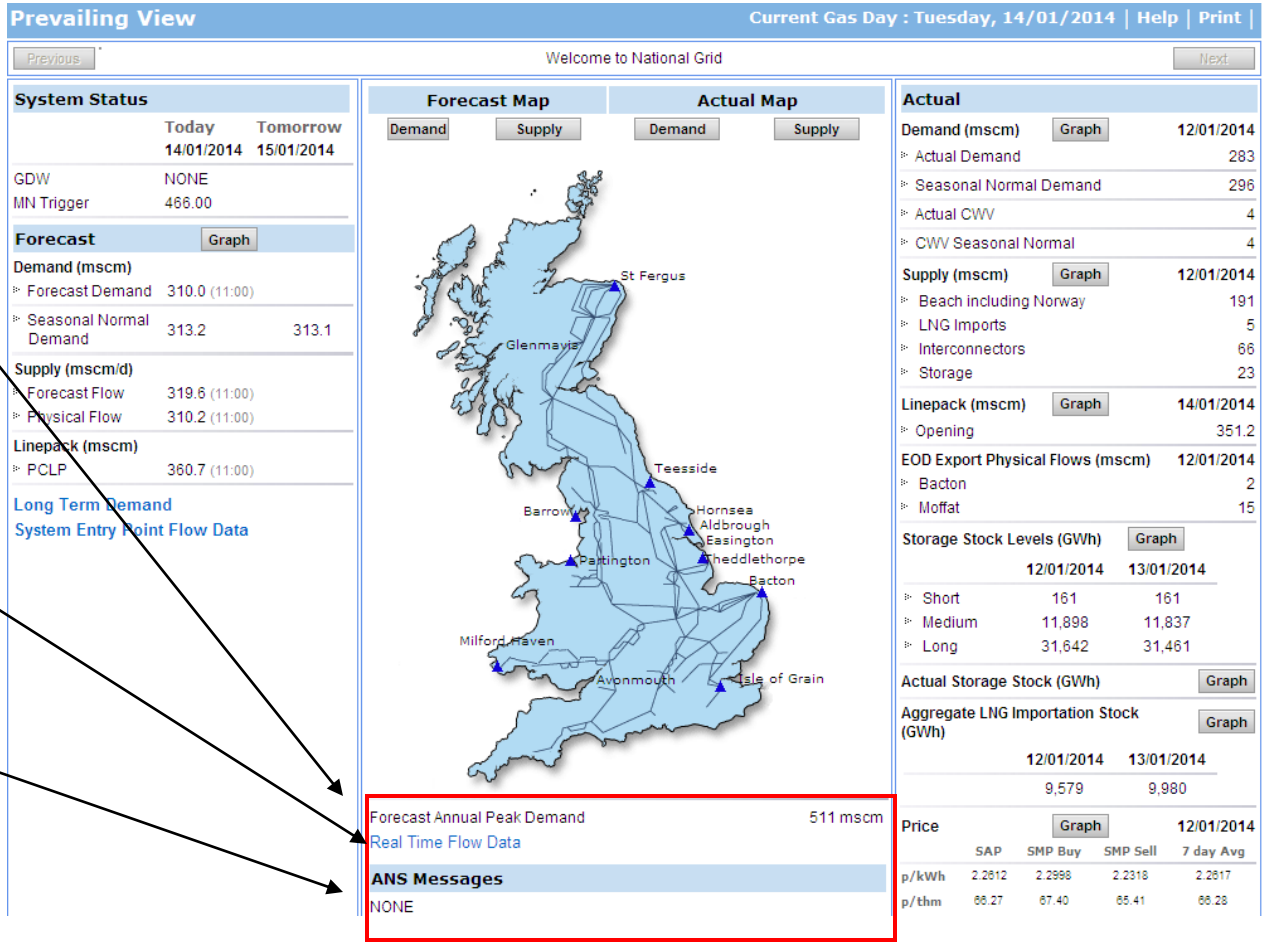
Forecast Annual Peak Demand
- The diversified total peak day demand forecast is the national gas demand, assuming no interruption expected in 1 in 20 cold weather conditions.
- Updated yearly in readiness for the new Gas Year.

Real Time Flow Data
Link to the instantaneous flows page.

ANS Messages
Copy of messages sent to customers that have an Active Notification System handset.



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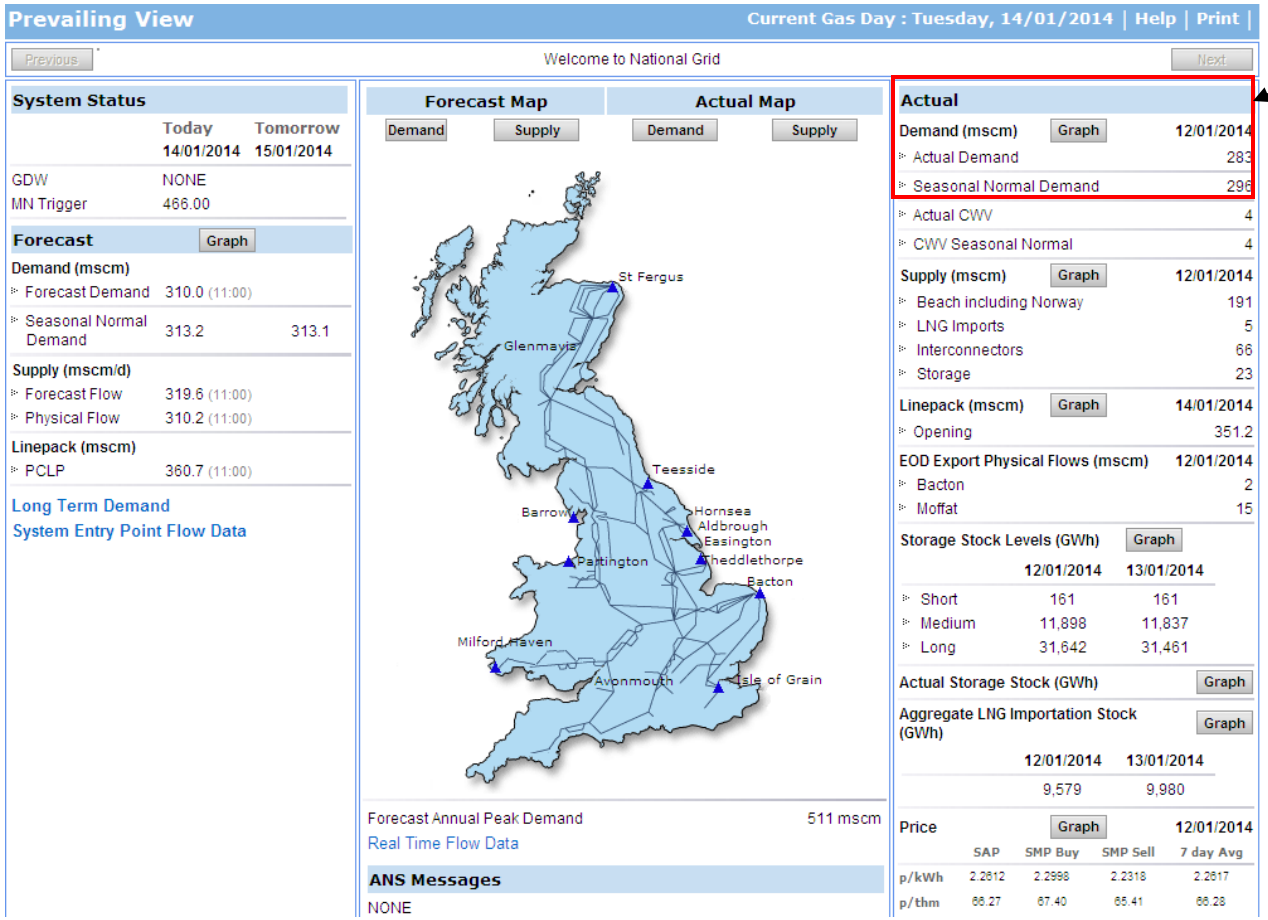

Actual

Actual Demand

- Updated daily (~12:00)
- The amount of gas delivered through the 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.

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Prevailing View — Current Gas Day : Tuesday, 14/01/2014 | Help | Print |

Previous — Welcome to National Grid — Next

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Long Term Demand
System Entry Point Flow Data

Forecast Map — Demand | Supply

Actual Map — Demand | Supply

Forecast Annual Peak Demand 511 mscm
Real Time Flow Data

ANS Messages
NONE

Actual

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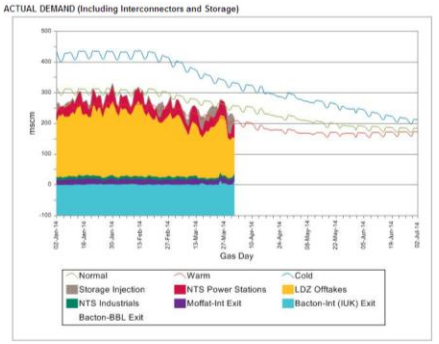

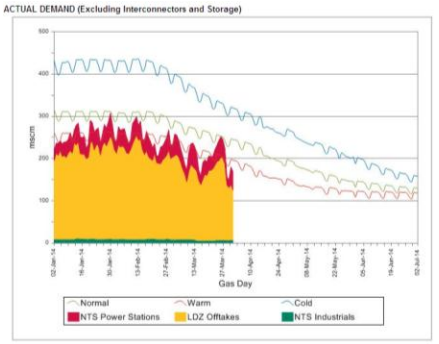

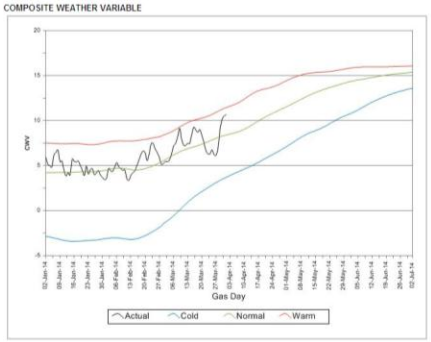

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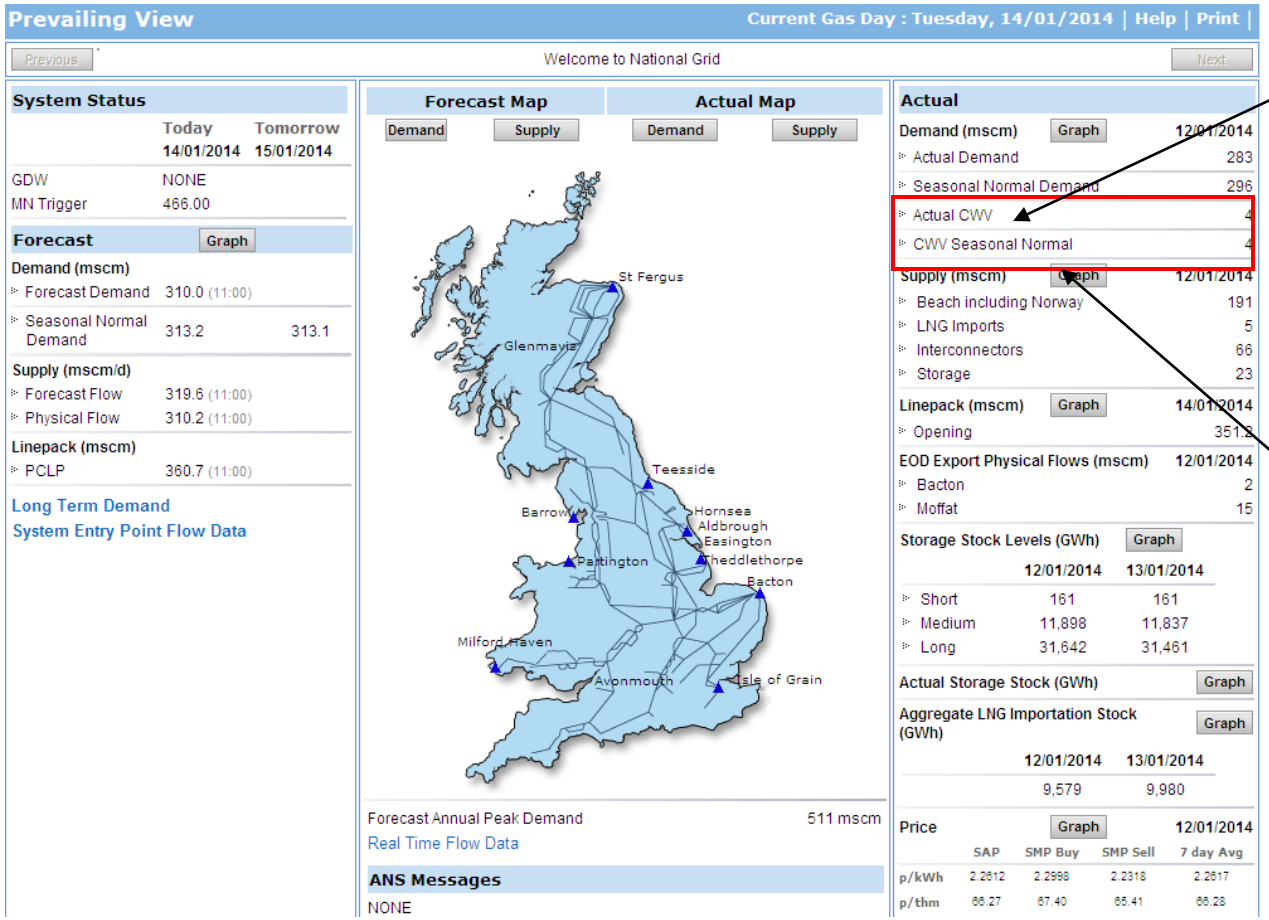

Actual

Actual CWV

- Updated daily (~12:00)
- Composite Weather Variable (CWV)
- Created from temperature and wind speed data to produce a linear relationship with gas demand.
- Applicable for the previous gas day.

CWV Seasonal Normal

- An expected CWV for a 'normal' season.

Prevailing View

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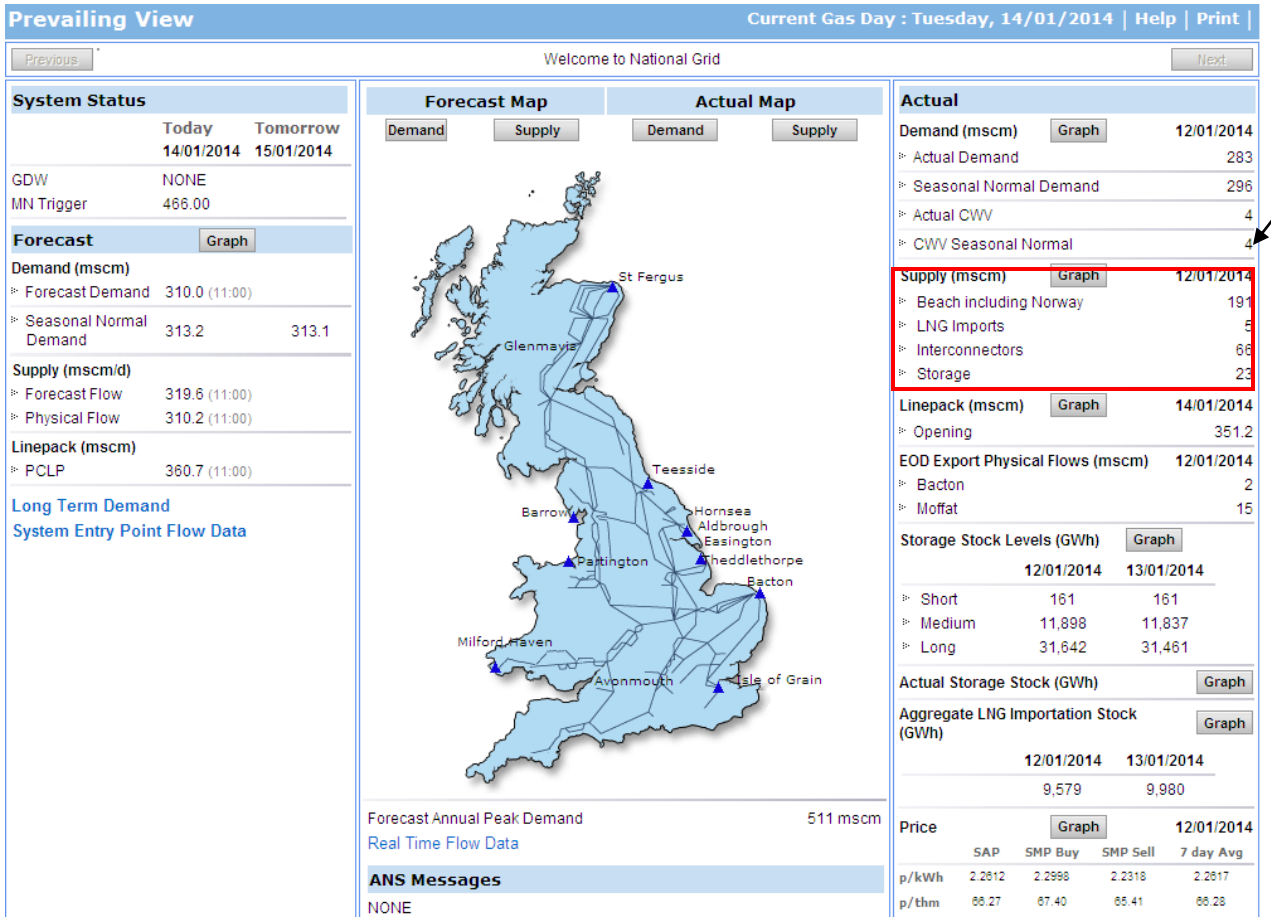

Supply
End of day aggregated flows for each entry type;
- Beach including Norway (sub-terminals)
- LNG imports
- Interconnectors
- Storage

Prevailing View

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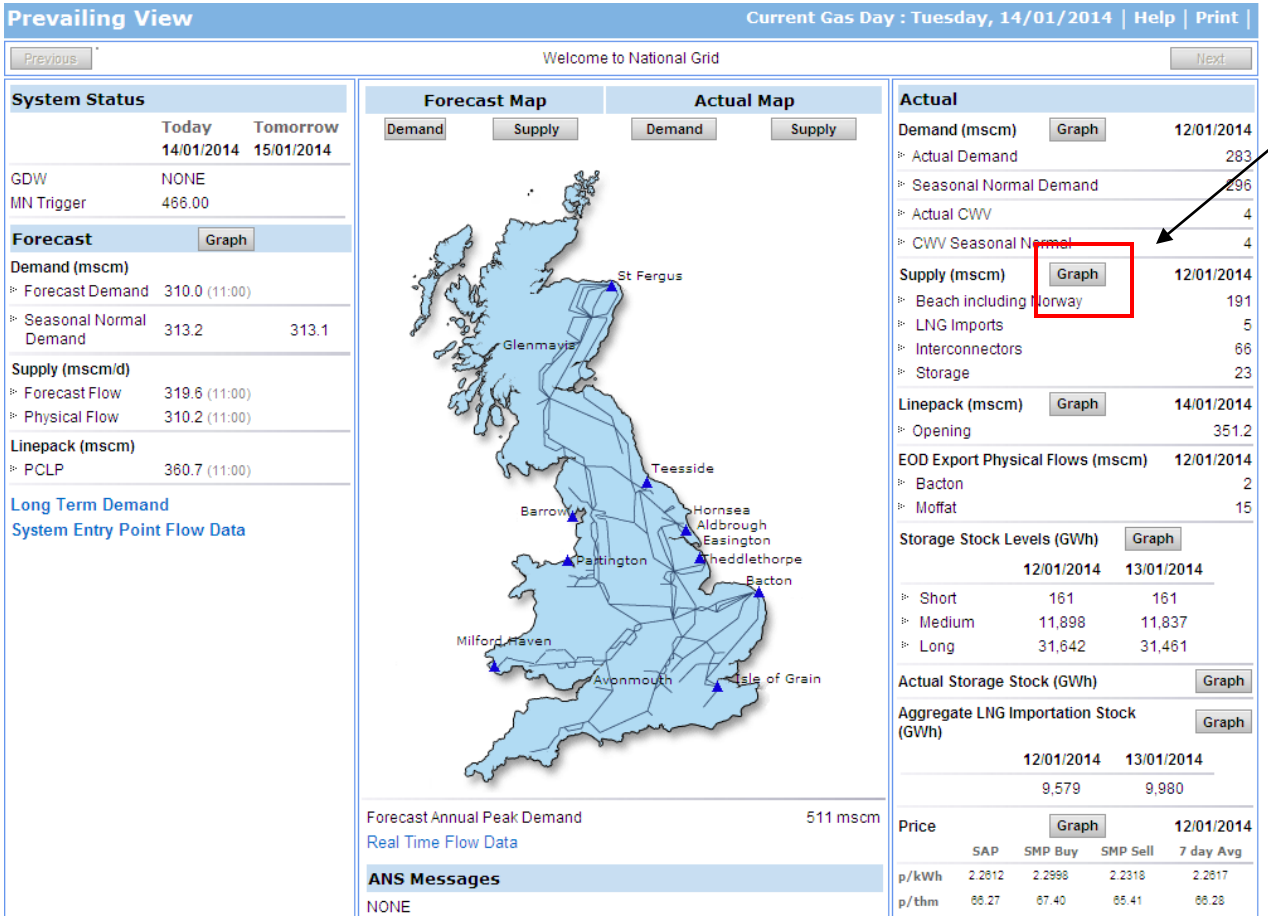

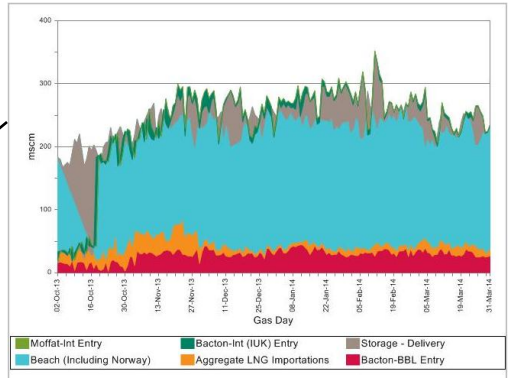

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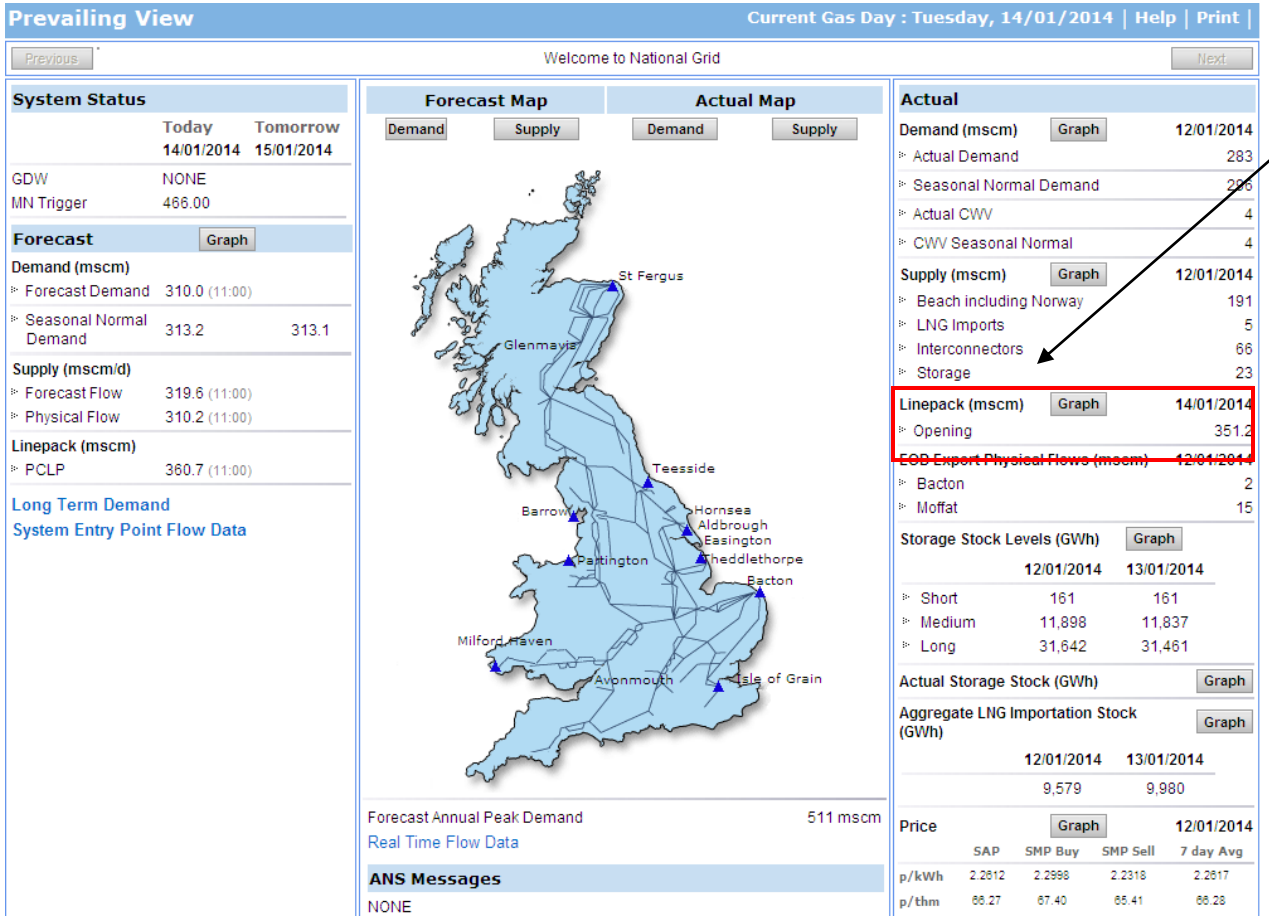
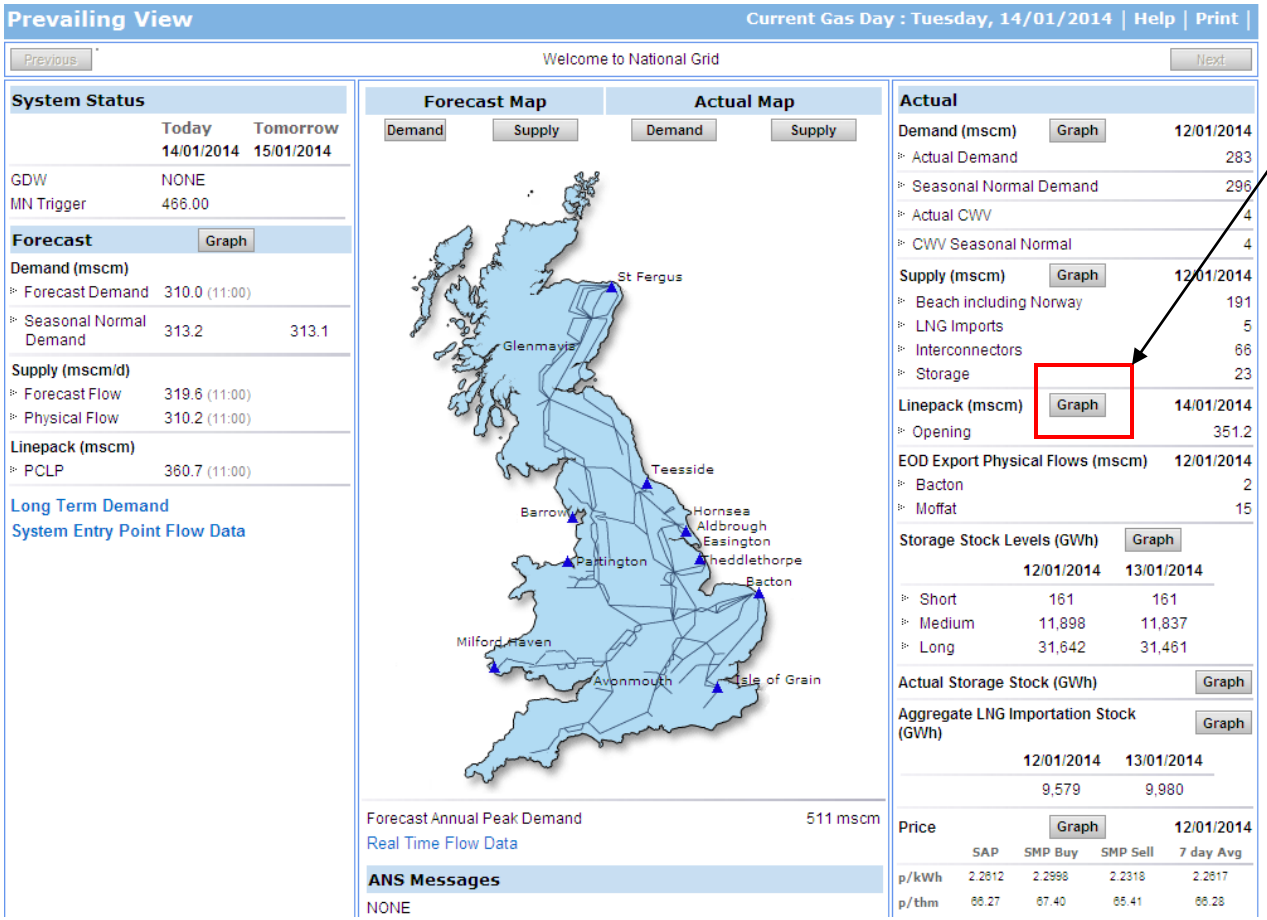


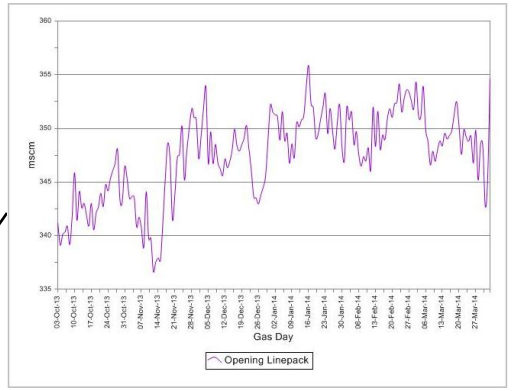
Linepack Opening

- The actual linepack at the start of the Gas Day (06:00).
- This is an estimate based on the linepack prior to 8am.

Prevailing View

- 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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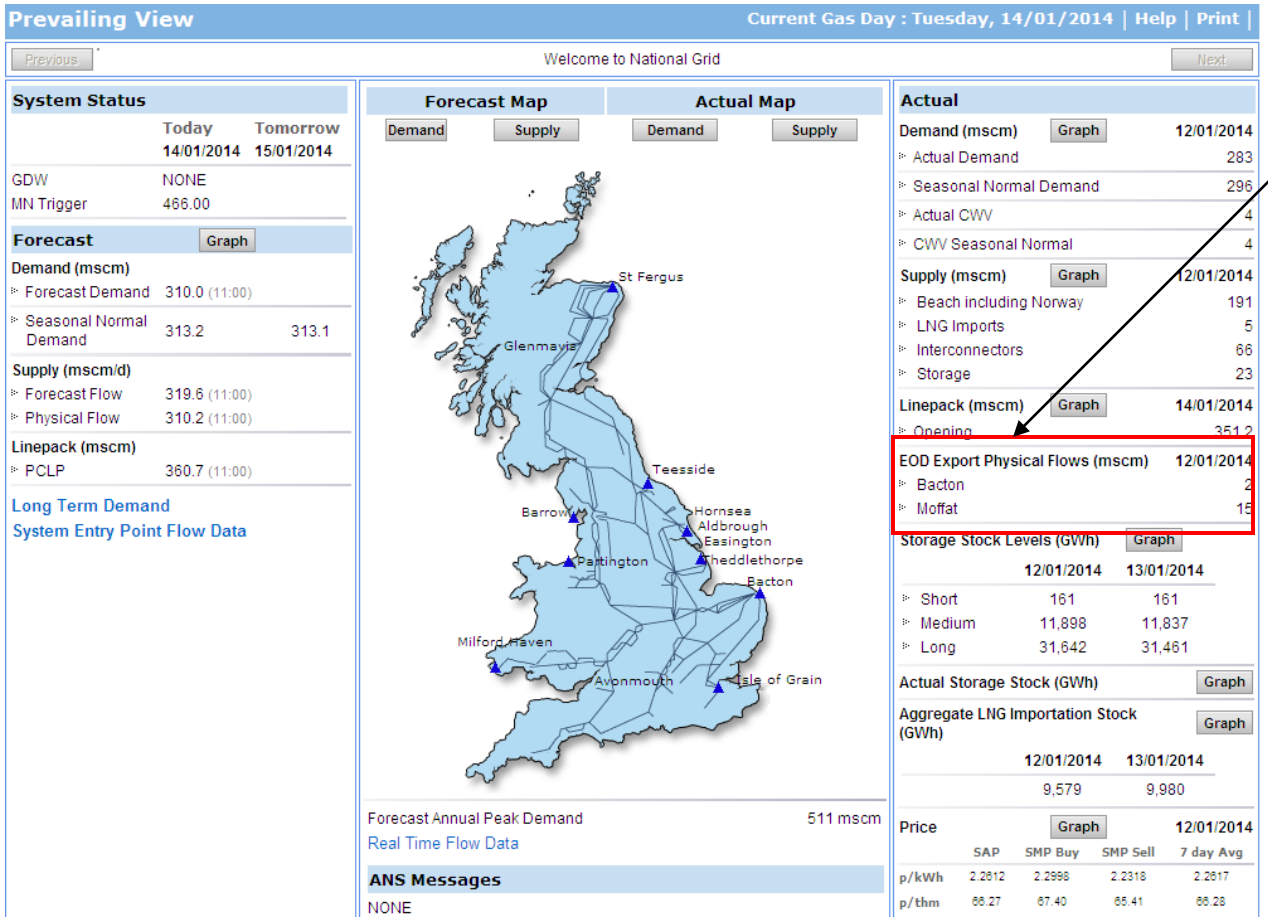

EOD Export Physical Flows (mscm)
Bacton
Moffat

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

Prevailing View

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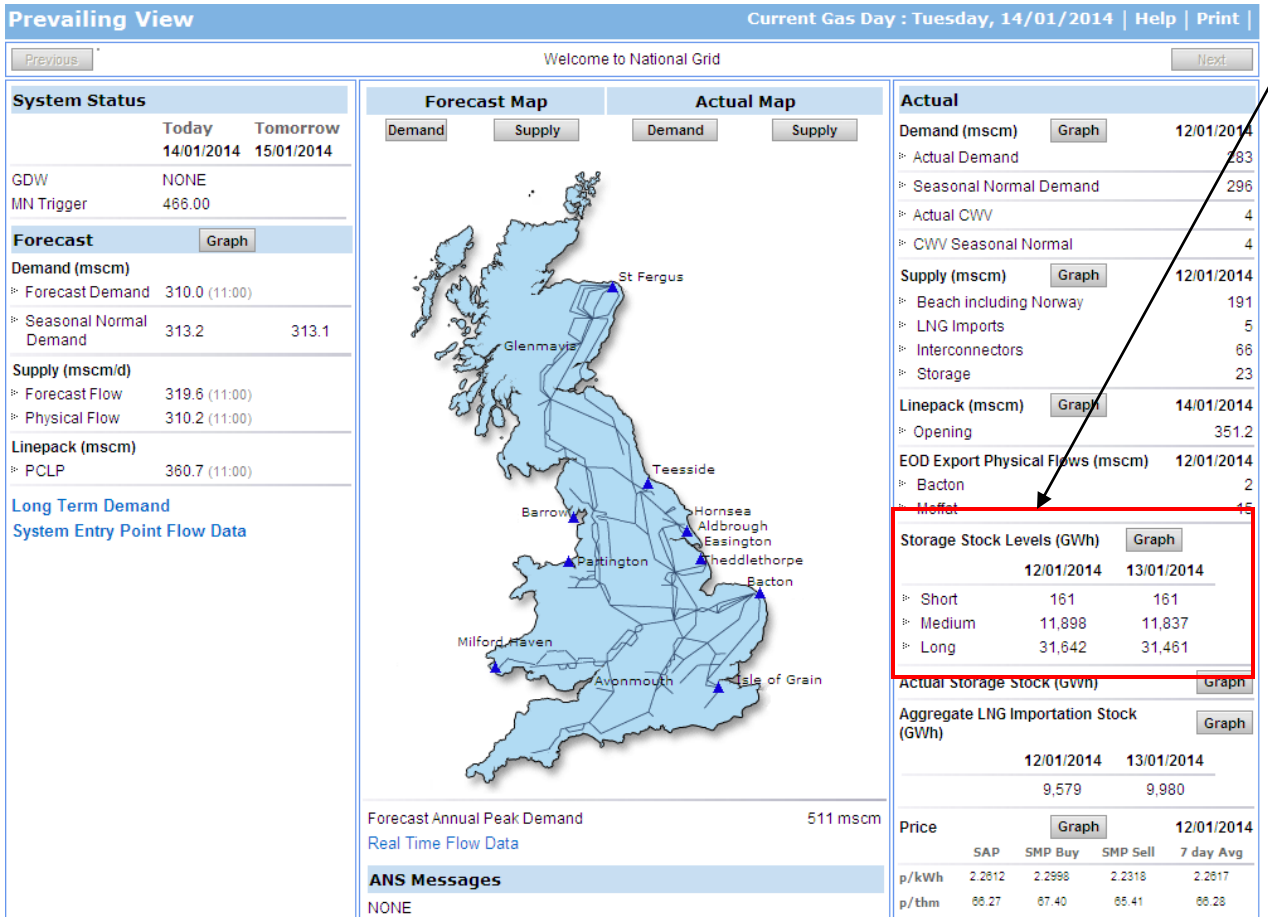

Storage Stock Levels (GWh
Aggregate stock levels for each storage site type.

- 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 revaporised and delivered to the NTS. SRS can respond quickly but has limited stock.
- Medium Range Storage (MRS): There are multiple SRS 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).
- Updated throughout the day as new information becomes available.

Prevailing View — Current Gas Day : Tuesday, 14/01/2014 | Help | Print |

Previous — Welcome to National Grid — Next

System Status

	Today 14/01/2014	Tomorrow 15/01/2014
GDW	NONE	
MN Trigger	466.00	

Forecast Graph

Demand (mscm)		
Forecast Demand	310.0 (11:00)	
Seasonal Normal Demand	313.2	313.1
Supply (mscm/d)		
Forecast Flow	319.6 (11:00)	
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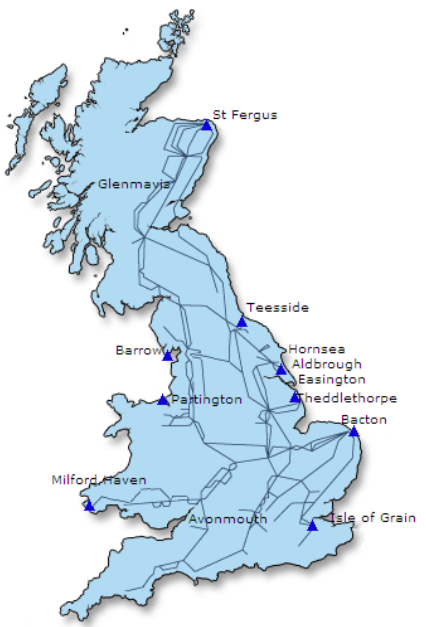
Linepack (mscm)		
PCLP	360.7 (11:00)	

Long Term Demand
System Entry Point Flow Data

Forecast Map — Demand | Supply

Actual Map — Demand | Supply



Forecast Annual Peak Demand 511 mscm
Real Time Flow Data

ANS Messages
NONE

Actual

Demand (mscm) Graph	12/01/2014
Actual Demand	283
Seasonal Normal Demand	296
Actual CWV	4
CWV Seasonal Normal	4
Supply (mscm) Graph	**12/01/2014**
Beach including Norway	191
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Linepack (mscm) Graph	**14/01/2014**
Opening	351.2
EOD Export Physical Flows (mscm)	**12/01/2014**
Bacton	2
Moffat	15

Storage Stock Levels (GWh) Graph

	12/01/2014	13/01/2014
Short	161	161
Medium	11,898	11,837
Long	31,642	31,461

Actual Storage Stock (GWh) Graph

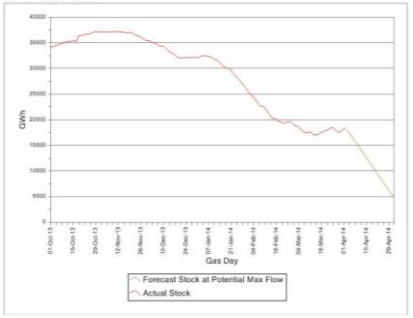
Aggregate LNG Importation Stock (GWh) Graph

12/01/2014	13/01/2014
9,579	9,980

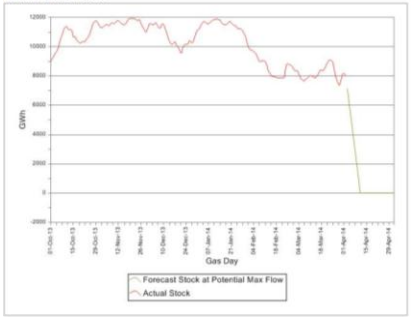
Price Graph 12/01/2014

	SAP	SMP Buy	SMP Sell	7 day Avg
p/kWh	2.2612	2.2998	2.2318	2.2617
p/thm	66.27	67.40	65.41	66.28

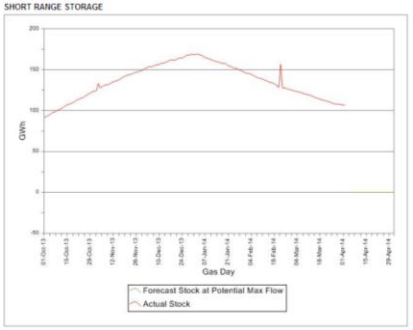
LONG RANGE STORAGE



MEDIUM RANGE STORAGE



SHORT RANGE STORAGE



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Long Term Demand
System Entry Point Flow Data

Forecast Map — Demand | Supply
Actual Map — Demand | Supply

Forecast Annual Peak Demand 511 mscm
Real Time Flow Data

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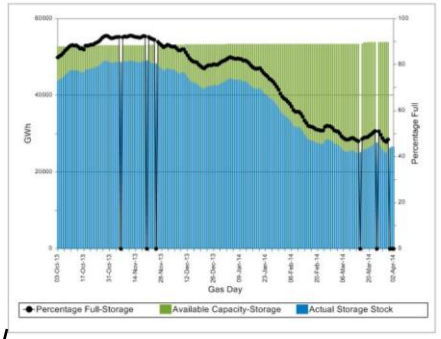

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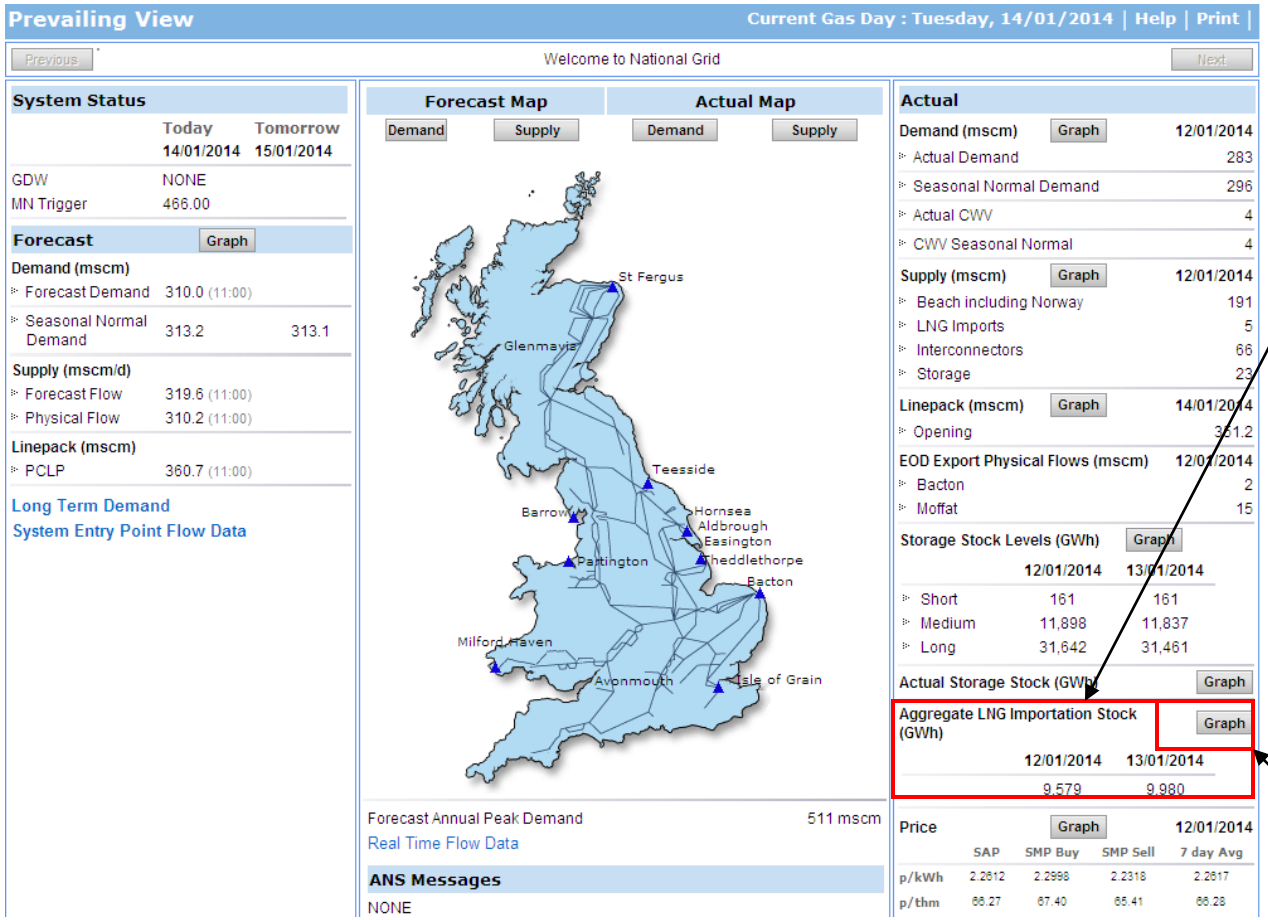
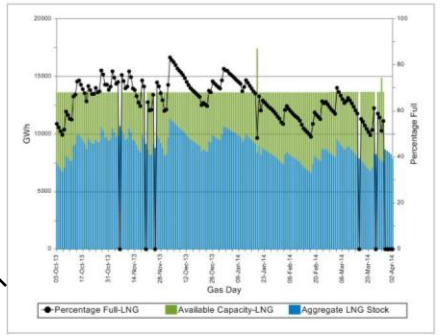


Aggregate LNG Importation Stock (GWh)
The aggregate physical LNG in store at LNG importation facilities at 05:59 hours on the Preceding Gas Flow Day



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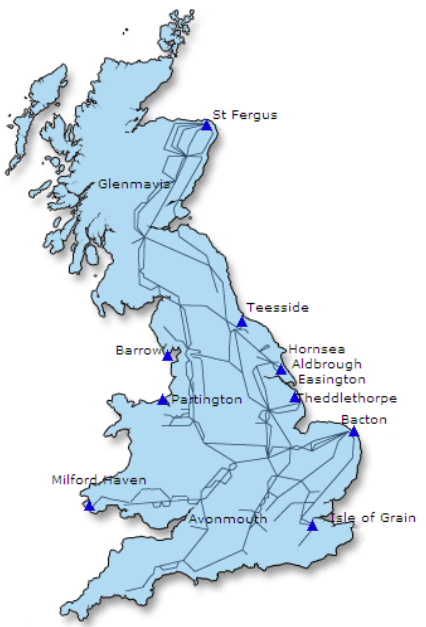

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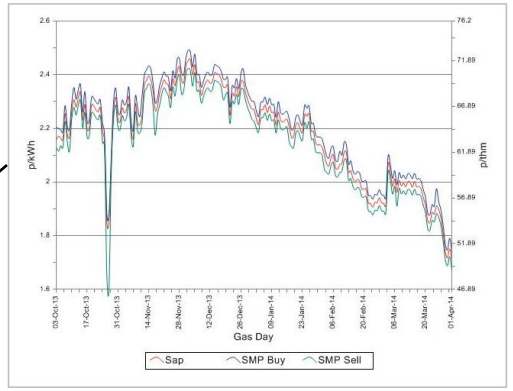
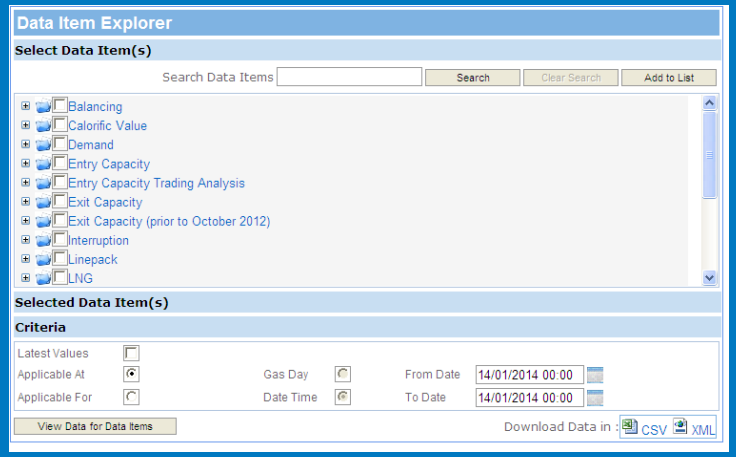
Price

- 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.



Data Item Explorer



Data Item Explorer

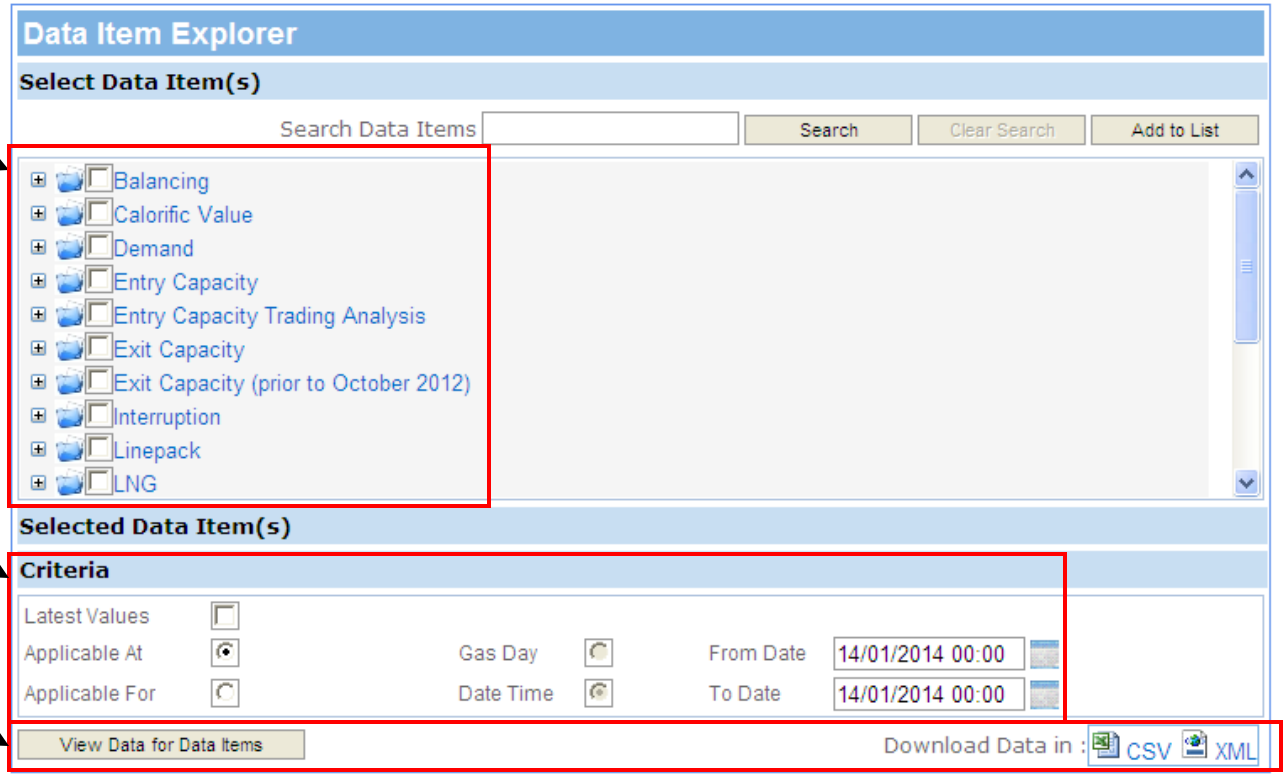
- All data is available at an individual data item level to enable users to select combinations of items at their choice. These are categories in menus according to their subject.
- A rolling 5 years worth of data can be accessed*.

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

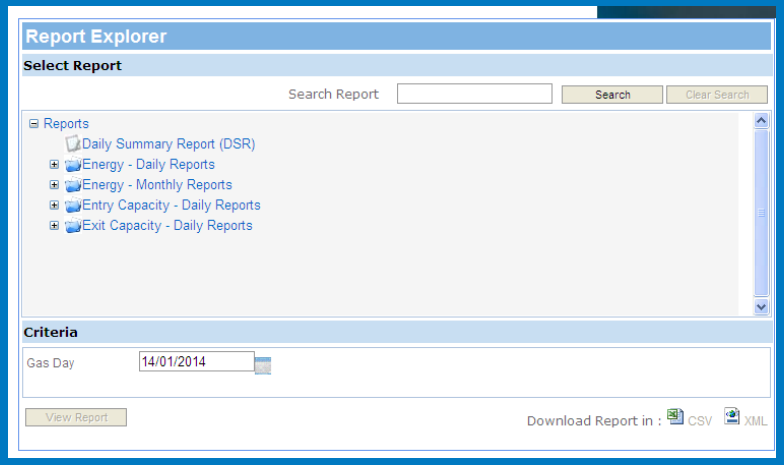
Data Items
- Available by expanding the menus.

Criteria
- Latest values option
- Applicable For (Gas Day)
- From Date / To Date (Your Gas Day range)

Data Results
- Choose to;
- View Data for Data Items on the screen in your Internet Browser; or
- Download to CSV, or
- Download to XML.



Report Explorer



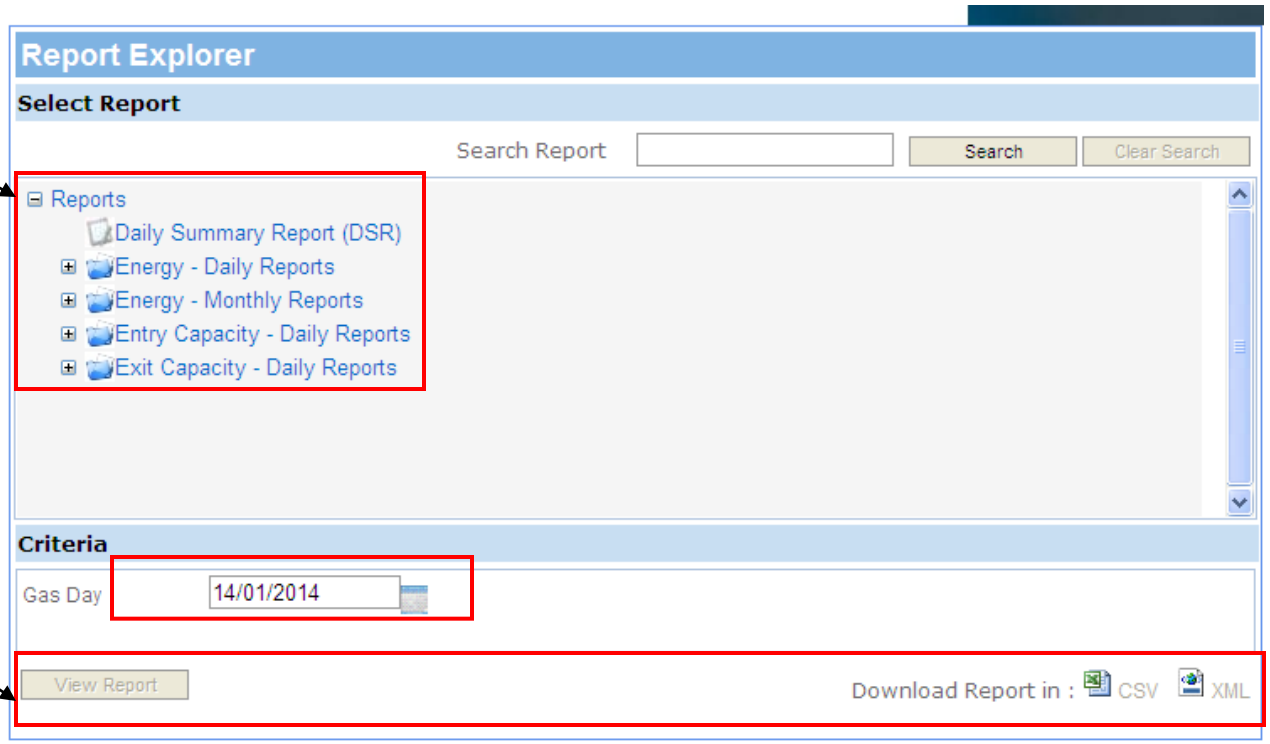
Data Item Explorer

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

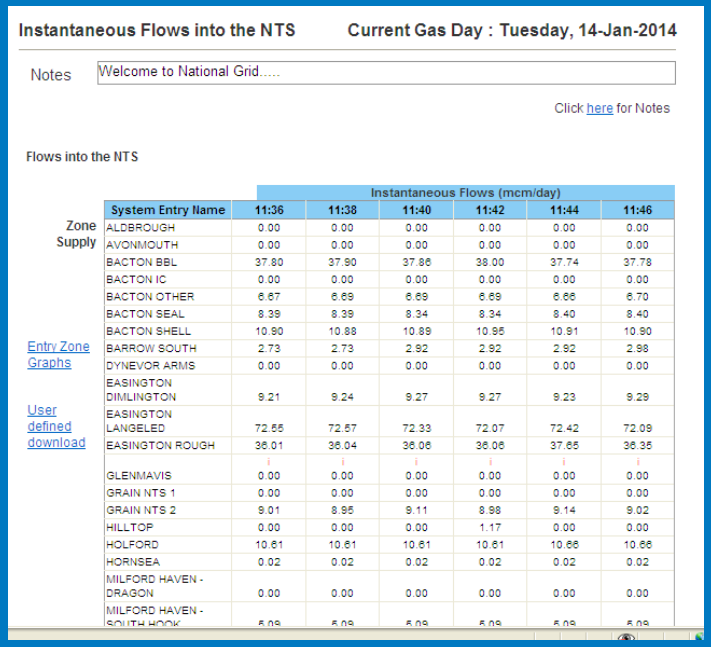
Reports
- Available by expanding the menus.

Criteria
- Limitation to singular Gas Day.

Data Results
Choose to;
- View Report on the screen in your Internet Browser; or
- Download to CSV, or
- Download to XML.



Instantaneous Flows



Instantaneous Flows into the NTS **Current Gas Day : Tuesday, 14-Jan-2014**

Notes: Welcome to National Grid.....

Click here for Notes

Flows into the NTS

Zone Supply

Entry Zone Graphs

User defined download

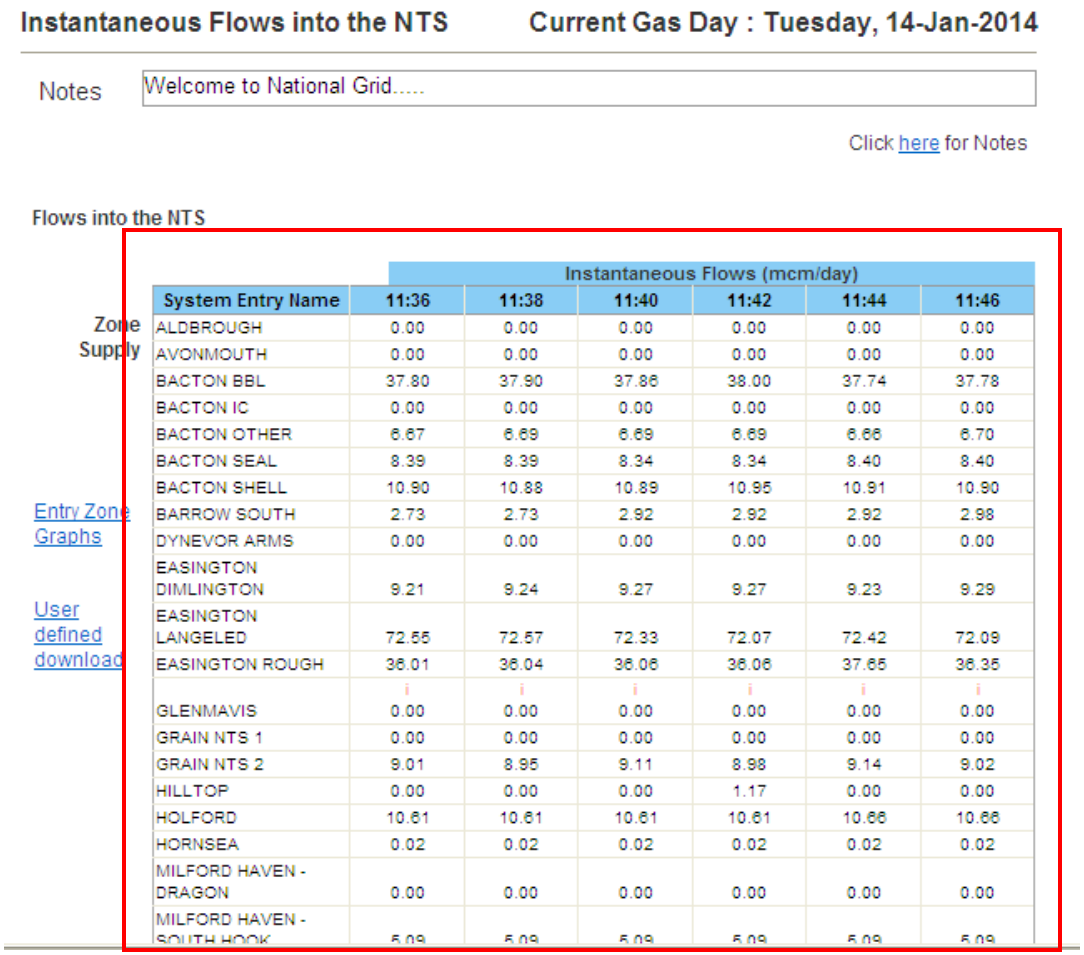
	Instantaneous Flows (mcm/day)					
System Entry Name	11:36	11:38	11:40	11:42	11:44	11:46
ALDBROUGH	0.00	0.00	0.00	0.00	0.00	0.00
AVONMOUTH	0.00	0.00	0.00	0.00	0.00	0.00
BACTON BBL	37.80	37.90	37.86	38.00	37.74	37.78
BACTON IC	0.00	0.00	0.00	0.00	0.00	0.00
BACTON OTHER	6.67	6.69	6.69	6.69	6.66	6.70
BACTON 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
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	9.29
EASINGTON LANGELED	72.55	72.57	72.33	72.07	72.42	72.09
EASINGTON ROUGH	36.01	36.04	36.06	36.06	37.65	36.35
GLENMAVIS	0.00	0.00	0.00	0.00	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 - SOUTH HOOK	5.09	5.09	5.09	5.09	5.09	5.09

Instantaneous Flows

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

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).



Instantaneous Flows into the NTS **Current Gas Day : Tuesday, 14-Jan-2014**

Notes: Welcome to National Grid.....

Click here for Notes

Flows into the NTS

Zone Supply

Entry Zone Graphs

User defined download

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AVONMOUTH	0.00	0.00	0.00	0.00	0.00	0.00
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BACTON IC	0.00	0.00	0.00	0.00	0.00	0.00
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HOLFORD	10.61	10.61	10.61	10.61	10.66	10.66
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MILFORD HAVEN - DRAGON	0.00	0.00	0.00	0.00	0.00	0.00
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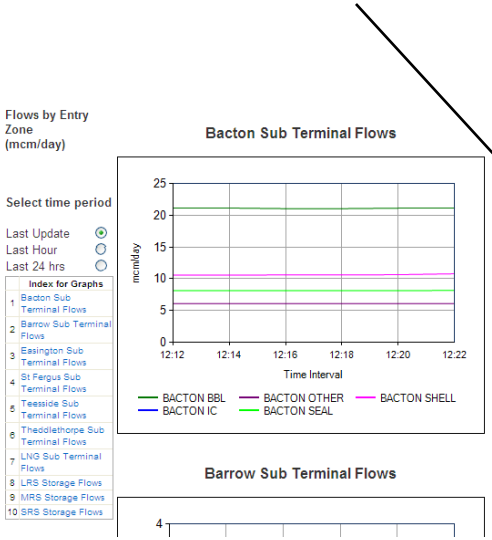
Entry Zone Graphs
- A graphical representation of entry information.



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Flows into the NTS

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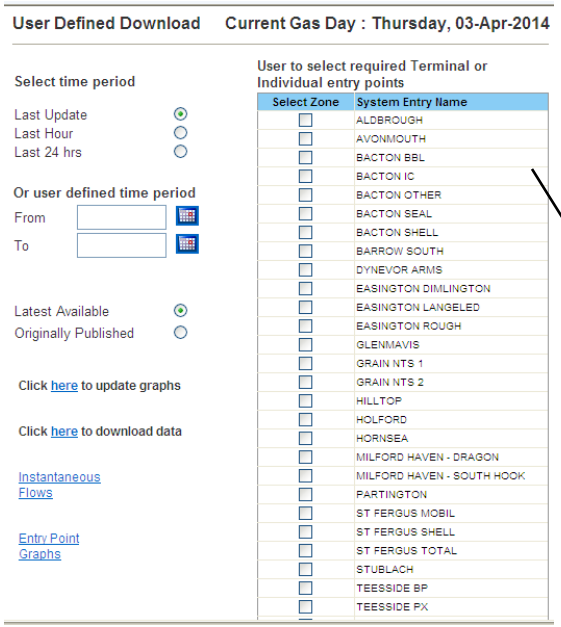
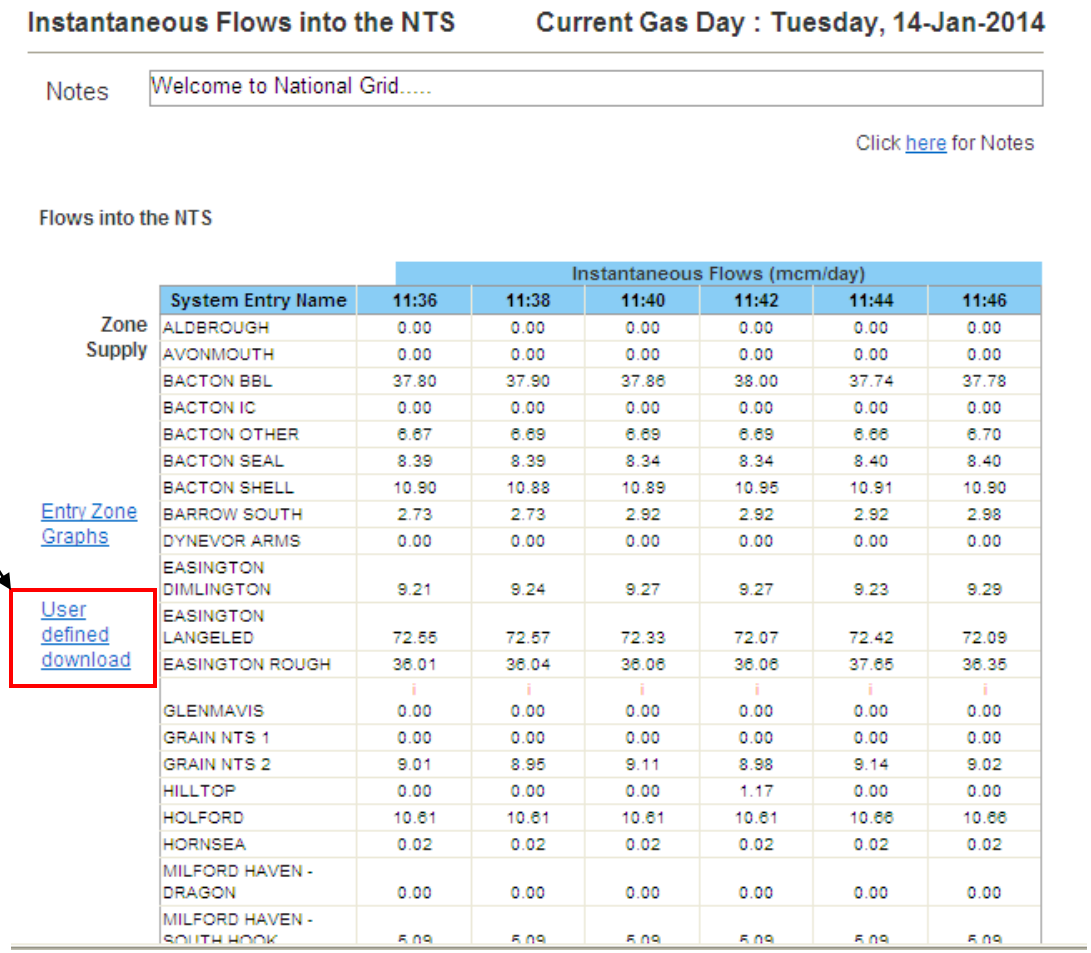
User Defined Download
- Function to download historical data.





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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-transmission-operational-data/supporting-information/

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Questions

Contact Us

- If you would like any further infroamtion about any of the gas market information that we provide on our website, please do not hesitate to contact us via;
  - Telephone on 01926 65 6474; or
  - Email at sysop.centre.reporting@nationalgrid.com

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AOB

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Future Gas Industry Forum

The next Gas Industry Forum is scheduled to take place on **23rd October 2014**

Possible topics for the next forum:

- **REMIT** and **European Energy Regulation – Bridge to 2025**
- **Bio-gas overview**

If you are interested in attending the next Gas Industry Forum, please send us an email to:

talkingnetworks.distribution@nationalgrid.com

Close

Thank you all for coming

and have a safe journey home!