

Market Information Provision Initiative (MIPI)

DSWG – 17th September 2007

Chris Logue

IE3 Current Presentation

Information provided in 2 ways :

Daily Summary Report

- ◆ Provides a snapshot of prevailing data
- ◆ Provides Alarms, notes and messages
- ◆ Updated within-day as information becomes available
- ◆ Graphical history to give context
- ◆ *Key point of entry for most users*
- ◆ *data not all available on the screen at the same time*

Reports in .PDF and .CSV

- ◆ viewable and/or downloadable
- ◆ Within-day (hourly)
- ◆ Daily
- ◆ Weekly
- ◆ Monthly
- ◆ *Inflexible from a user perspective (no date ranges, fixed report content etc)*
- ◆ *no automated interface*
- ◆ *Complicated reports with non-intuitive names and content*

MIPI : Drivers for Change

- ◆ Utilisation of IE3 has increased 20 fold in the last 3 years but still based on the existing dated infrastructure
- ◆ Extremely high Availability and Timeliness of information publication required and incentivised to improve further to promote open market conditions
- ◆ Increasing future links to global markets and European supplies
- ◆ Evolving market conditions and the dynamic nature of the market leading to ongoing change in information requirements, particularly web services
- ◆ Shift in data use and requirements
 - ◆ Data volume required for market modelling
 - ◆ Offline analytical and user side decision making tools
- ◆ Limited extensibility for IE3 to accommodate additional functionality, including Regulatory changes (mod 97a, 104, 121, UNC RG140 info review)

MIPI : Why now ?

- ◆ NG has made significant investments in improving IE3 over the last 3 years
- ◆ Real improvements in both functionality and performance have been delivered
 - ◆ The number of reports being published at greater than monthly frequency has nearly doubled
 - ◆ delays in publication of hourly reports has more than halved
 - ◆ Availability of the site is very close to 100%
- ◆ All this has taken the system to the limits of its capabilities and further investment is no longer cost effective
- ◆ Further performance improvements and the addition of more data and different functionality requires the changeover to a more suitable system

MIPI : Approach

- ◆ 2 stage approach adopted for replacement of systems and rationalising data provision :
 - ◆ Stage 1 (MIPI07) –
 - ◆ transfer key data, effectively all forecast and most after the day reporting, to a new platform
 - ◆ Deliver new UNC mods (97a, 104, 121)
 - ◆ Provide data based approach rather than reports
 - ◆ Introduce APIs
 - ◆ Stage 2 (MIPI08) –
 - ◆ transfer remaining data from IE3 and other website systems,
 - ◆ Deliver new or revised data requirements resulting from UNC Review Group140 (or other unrelated UNC mods)
 - ◆ decommission IE3
- ◆ New system to be based around GMRS infrastructure built to deliver UNC mod 006

MIPI07 : aims

- ◆ Provide information in a user friendly way, recognising that this will mean different things to different users
- ◆ Ensure high availability and performance by utilising a highly resilient, stable platform with auto-backup facilities and auto-failover
- ◆ Information provided ‘data-centrally’ rather than just reports
- ◆ Provide more on-screen data definition and help facilities
- ◆ Ensure nothing is ‘lost’ in changeover
- ◆ Provide an overview page that gives :
 - ◆ Single screen overview of latest available position
- ◆ Provide functionality that gives users :
 - ◆ Access to any stored data
 - ◆ choice of period range
 - ◆ Delivery as on screen view, CSV or XML downloads (but no PDFs)
- ◆ Make APIs available to access all the data provided

MIPI : 3 tier structure

- ◆ Tier 1 – Prevailing view

- ◆ Provides a single page holistic view of the system with Key Data updated on or relating to the current Gas Day.

- ◆ Tier 2 – Data Item Explorer

- ◆ Provides a facility for the user to select individual data items and date range to view, and / or download data in XML or CSV format

- ◆ Tier 3 – Report Explorer

- ◆ Provides a facility to view and or download a series of ‘reports’ or predefined Data Items, in XML or CSV format :
 - ◆ that are obligated within code to be provided within a single report
 - ◆ that are currently custom and practice to provide within a single report
 - ◆ that have been identified as a set of Data Points that users commonly retrieve.
 - ◆ that logically provide a holistic view of an issue or field of interest

MIPI

Functionality : Prevailing View

MIPI : Prevailing View

- ◆ Gives a single screen snapshot of the latest available information (forecast and actual)
- ◆ Updated throughout the day as new information becomes available
- ◆ Forecast information on the left of the screen
- ◆ Actual information on the right-hand side
- ◆ Scrolling notes on the top (last 5)
- ◆ Provides access to graphs of historical data
- ◆ Click on 'blue' fields to get more detail and interactive maps where information is disaggregated
 - ◆ Map interactive at some levels

Prevailing View

Current Gas Day : Monday, 09-07-2007

09/07/2007 09:10:00

Note created for the day 09-jul-2007

Alert Status

Today Tomorrow

GBA

Trigger (mcm)

Forecast

Today Tomorrow

Demand (mcm) 207

Seasonal Normal (mcm)

Supply (mcm)

Forecast Flow 206

Physical Flow 224

Linepack (mcm)

Opening 287.7

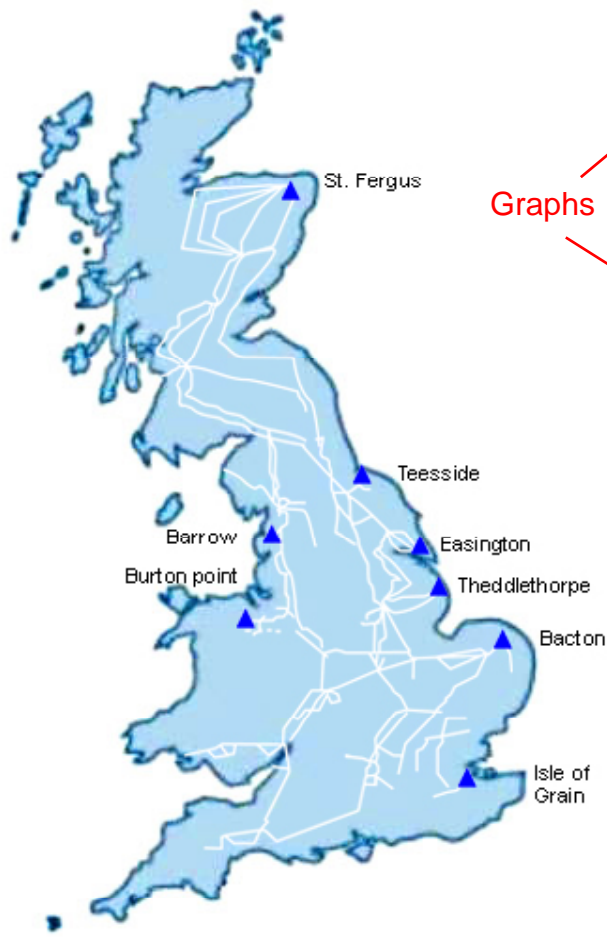
PCLP 286.7

Likelihood to Interrupt

Long Term Demand

Notes

Additional Detail



Graphs

Price

	SAP	SMP Buy	SMP Sell	7 day Avg
p/KWh	0.862	0.890	0.829	0.783
p/Therm	25.25	26.09	24.30	22.95

Actual

Demand (mcm)

Seasonal Normal (mcm)

CWW 15

Supply (mcm)

- Beach & IOG
- Interconnector
- Storage

EOD Export Physical Flows (mcm)

- Bacton
- Moffat

Storage Stock Levels (GWh)

Yesterday Today

- Short
- Medium
- Long

IOG Closing Stock (mcm)

>

09/07/07

Applicable for date

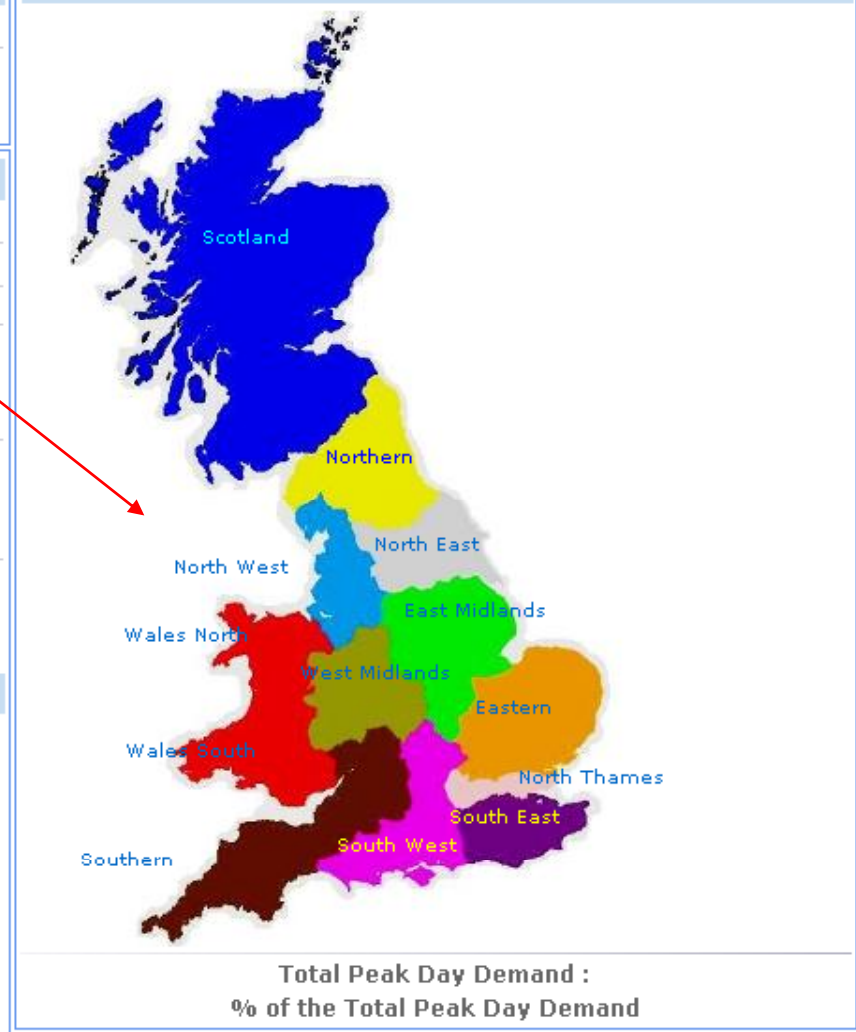
	Today	Tomorrow
GBA		
Trigger (mcm)		

Forecast	
	Today Tomorrow
Demand (mcm)	207
Seasonal Normal (mcm)	
Supply (mcm)	
‣ Forecast Flow	206
‣ Physical Flow	224
Linepack (mcm)	
‣ Opening	287.7
‣ PCLP	286.7

Likelihood to Interrupt
Long Term Demand

Long Term Demand : 09/07/2007

Gas Day		Demand (mcm)	90% CI (mcm)
11/07/2007	D-2	198	+/-23
12/07/2007	D-3	201	+/-28
13/07/2007	D-4	217	+/-30
14/07/2007	D-5		+/-31



ANS Messages

	SAP	SMP Buy	SMP Sell	7 day Avg
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Storage Stock Levels (GWh)

	Yesterday	Today
‣ Short		
‣ Medium		
‣ Long		

IOG Closing Stock (mcm)

-

Supply Information

	Entry Source (in mcm)		
	Beach & IOG	Interconnector	Storage
Daily Flow			
Max Flow			

Today Tomorrow

GBA

Trigger (mcm)

Forecast

	Today	Tomorrow
Demand (mcm)	207	
Seasonal Normal (mcm)		
Supply (mcm)		
Forecast	206	
Physical	224	
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Opening	287.7	
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Total Peak Day Demand :
% of the Total Peak Day Demand

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CWW 15

- Supply (mcm)**
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 - Interconnector
 - Storage

- EOD Export Physical Flows (mcm)**
- Bacton
 - Moffat

Storage Stock Levels (GWh)

	Yesterday	Today
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	Today	Tomorrow
Demand (mcm)	207	
Seasonal Normal (mcm)		

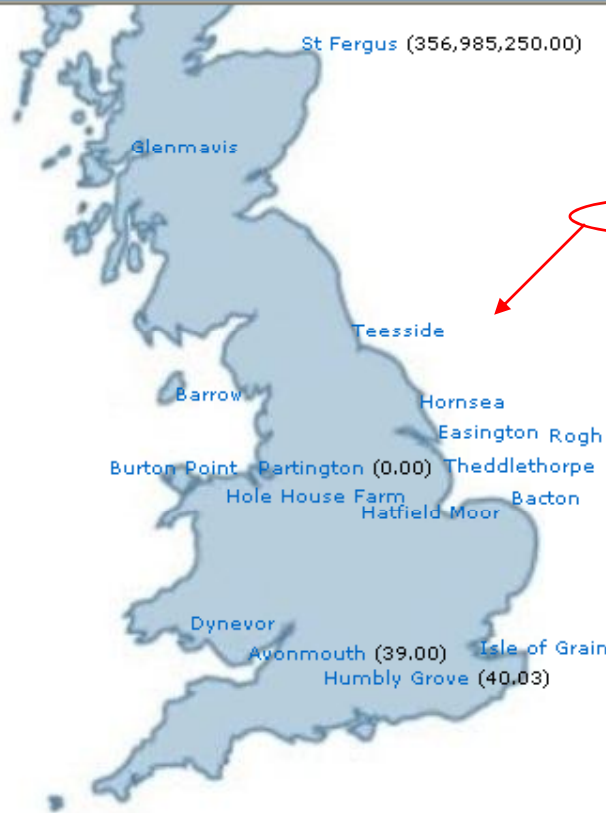
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**Likelihood to Interrupt
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- »

Supply Information

	Entry Source (in mcm)		
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Daily Flow			
Max Flow			
01/04/07			
Min Flow			
01/04/07			
Avg 7 day Flow			

ANS Messages

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Forecast	
	Today Tomorrow
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Likelihood to Interrupt Long Term Demand

Transporter Interruption		
	Probability Of Interruption	
LDZ	NSL	Non NSL
Scotland		
Northern		
NorthWest		
NorthEast		
EastMidlands		
WestMidlands		
WalesNorth		
WalesSouth		
Eastern		
North Thames		
SouthEast		
Southern		
SouthWest		



Total Peak Day Demand :
% of the Total Peak Day Demand

ANS Messages	

p/Therm	25.25	26.09	24.30	22.95
---------	-------	-------	-------	-------

Actual	
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Supply Information

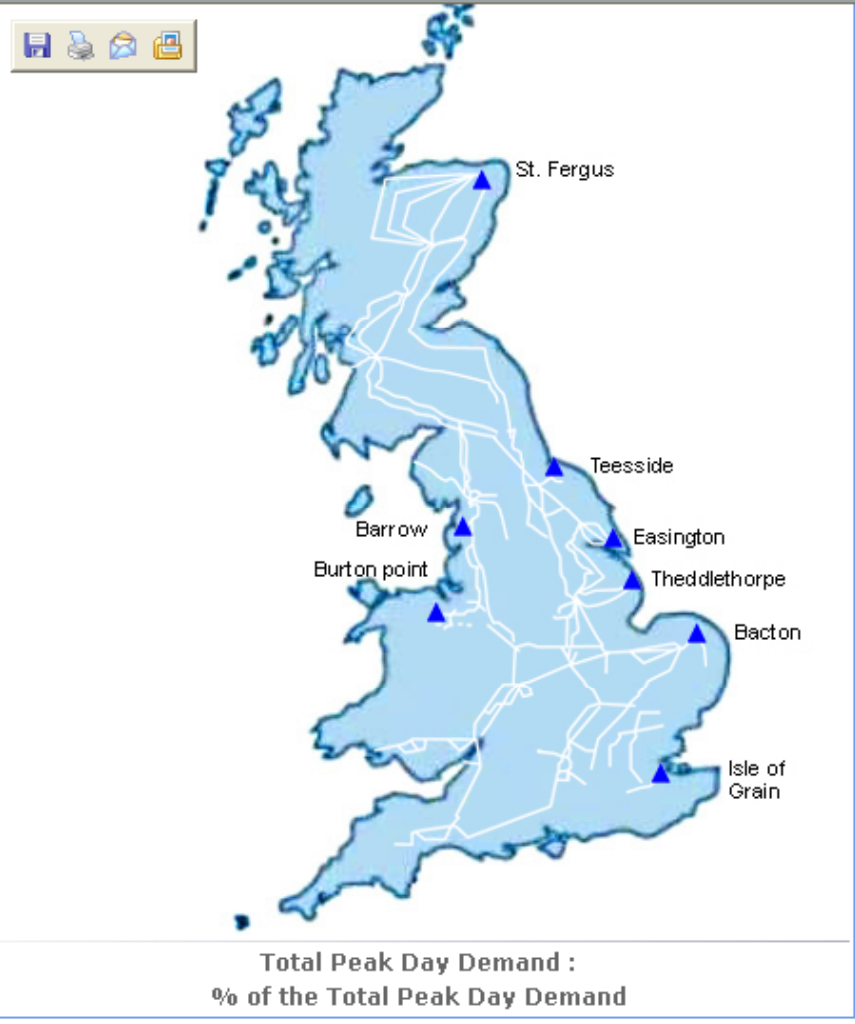
	Entry Source (in mcm)		
	Beach & IOG	Interconnector	Storage
Daily Flow			
Max Flow			
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Min Flow			
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Avg 7 day Flow			

	Today	Tomorrow
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Supply Information			
	Entry Source (in mcm)		
	Beach & IOG	Interconnector	Storage
Daily Flow			
Max Flow			
01/04/07			

MIPI

Functionality : Data Item Explorer

Data Item Explorer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://10.143.2.119/mipi07/frmDataItemExplorer.aspx>

Data Item Explorer

Select Data Item(s)

Search Data Items

- Balancing
- Demand
 - Exit Point Actuals
 - LDZ Actual
 - LDZ Forecast
 - NTS Actual
 - NTS Forecast
 - Weather Correction and Scaling Factors
 - Bacton Interconnector Export Flow
 - Composite Weather Variable - Actual

Criteria

Latest Values	<input checked="" type="checkbox"/>				
Applicable At	<input type="checkbox"/>	Gasday	<input type="checkbox"/>	From Date	<input type="text" value="20/07/2007 00:00"/>
Applicable For	<input type="checkbox"/>	Date Time	<input type="checkbox"/>	To Date	<input type="text" value="25/07/2007 00:00"/>

Download Data in :

Local intranet

Red annotations:

- Select the data item(s) you are interested in
- Do you want all updates or just the latest data
- Is data for the dates selected or provided at the dates selected
- What range of dates do you want the data provided for
- VIEW ON SCREEN or DOWNLOAD ?

- ▶ [About the Gas industry](#)
- ▶ [Safety](#)
- ▶ [Streetworks](#)
- ▶ [Connections](#)
- ▶ **Operational Data**
 - ▶ [Daily Summary Report](#)
 - ▶ [Instantaneous Flows Report \(DEV\)](#)
 - ▶ [Instantaneous Flows Report \(FOF\)](#)
 - ▶ [Energy - Daily Reports](#)
 - ▶ [Energy - Monthly Reports](#)
 - ▶ [Capacity - Daily Reports](#)
 - ▶ [Capacity - Monthly Reports](#)
 - ▶ [Capacity Auctions](#)
 - ▶ [Interruptions](#)
 - ▶ [SO Incentive Data](#)
 - ▶ [Misc System Info](#)
 - ▶ [News](#)
 - ▶ [Email & SMS alerts](#)
 - ▶ [GBA](#)
- ▶ [Operational Info](#)
- ▶ [Charging](#)
- ▶ [Ten Year Statement](#)
- ▶ [Compliance Statements](#)
- ▶ [LNG Storage](#)

Data Item Explorer

Data Item Viewer

Quality Indicator Legend

E : Expired A : Amended C : Corrected S : Substituted L : Late
Received



Download Data in : CSV XML

View actual LDZ demands for the 10th and 11th of July

Data for Daily Data Items

Data for Hourly Data Items

Applicable At	Applicable For	Data Item	Value	Generated Time	Quality Indicator
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (EA), D+6	5.429	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (EM), D+6	10.365	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (NE), D+6	6.14	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (NO), D+6	5.326	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (NT), D+6	6.961	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (NW), D+6	11.646	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (SC), D+6	7.481	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (SE), D+6	7.724	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (SO), D+6	5.287	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (SW), D+6	3.789	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (WM), D+6	6.965	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (WN), D+6	1.354	17/07/2007 11:40:57	
17/07/2007 11:40:57	11/07/2007	Demand Actual, LDZ (WS), D+6	4.499	17/07/2007 11:40:57	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (EA), D+6	5.245	16/07/2007 11:40:48	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (EM), D+6	10.053	16/07/2007 11:40:48	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (NE), D+6	5.968	16/07/2007 11:40:48	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (NO), D+6	5.197	16/07/2007 11:40:48	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (NT), D+6	6.927	16/07/2007 11:40:48	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (NW), D+6	11.307	16/07/2007 11:40:48	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (SC), D+6	7.874	16/07/2007 11:40:48	
16/07/2007 11:40:48	10/07/2007	Demand Actual, LDZ (SE), D+6	7.803	16/07/2007 11:40:48	



Local intranet

....or download them as a CSV

DailyDataItems

ApplicableAt	ApplicableFor	DataItem	Value	GeneratedTime	QualityIndicator
17/07/2007 11:40	11/07/2007	Demand Actual, LDZ (EA), D+6	5.429	17/07/2007 11:40	
17/07/2007 11:40	11/07/2007	Demand Actual, LDZ (EM), D+6	10.365	17/07/2007 11:40	
17/07/2007 11:40	11/07/2007	Demand Actual, LDZ (NE), D+6	6.14	17/07/2007 11:40	
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17/07/2007 11:40	11/07/2007	Demand Actual, LDZ (SE), D+6	7.724	17/07/2007 11:40	
17/07/2007 11:40	11/07/2007	Demand Actual, LDZ (SO), D+6	5.287	17/07/2007 11:40	
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17/07/2007 11:40	11/07/2007	Demand Actual, LDZ (WS), D+6	4.499	17/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (EA), D+6	5.245	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (EM), D+6	10.053	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (NE), D+6	5.968	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (NO), D+6	5.197	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (NT), D+6	6.927	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (NW), D+6	11.307	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (SC), D+6	7.874	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (SE), D+6	7.803	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (SO), D+6	5.508	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (SW), D+6	4.231	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (WM), D+6	6.753	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (WN), D+6	1.363	16/07/2007 11:40	
16/07/2007 11:40	10/07/2007	Demand Actual, LDZ (WS), D+6	4.611	16/07/2007 11:40	
12/07/2007 11:40	11/07/2007	Demand Actual, LDZ (EA), D+1	5.429	12/07/2007 11:40	
12/07/2007 11:40	11/07/2007	Demand Actual, LDZ (EM), D+1	10.365	12/07/2007 11:40	
12/07/2007 11:40	11/07/2007	Demand Actual, LDZ (NE), D+1	6.14	12/07/2007 11:40	

....or maybe XML is what you are looking for

```
= <DataItems>
= <DailyDataItems>
  <ApplicableAt>17/07/2007 11:40:57</ApplicableAt>
  <ApplicableFor>11/07/2007</ApplicableFor>
  <DataItem>Demand Actual, LDZ (EA), D+6</DataItem>
  <Value>5.429</Value>
  <GeneratedTime>17/07/2007 11:40:57</GeneratedTime>
  <QualityIndicator xml:space="preserve"></QualityIndicator>
</DailyDataItems>
= <DailyDataItems>
  <ApplicableAt>17/07/2007 11:40:57</ApplicableAt>
  <ApplicableFor>11/07/2007</ApplicableFor>
  <DataItem>Demand Actual, LDZ (EM), D+6</DataItem>
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  <GeneratedTime>17/07/2007 11:40:57</GeneratedTime>
  <QualityIndicator xml:space="preserve"></QualityIndicator>
</DailyDataItems>
```

Edit View Favorites Tools Help




Back Search Favorites

http://10.143.2.119/mipi07/DataItemExplorer.aspx

ABOUT US Energy & Services Media Community Careers

ias » Electricity » Wireless » Metering » Property » Interconnectors » Land and Development » Grain LNG

About the Gas industry
 Safety
 Streetworks
 Connections
Operational Data
 · Daily Summary Report
 · Instantaneous Flows Report (DEV)
 · Instantaneous Flows Report (FOF)
 · Energy - Daily Reports
 · Energy - Monthly Reports
 · Capacity - Daily Reports
 · Capacity - Monthly Reports
 · Capacity Auctions
 · Interruptions
 · SO Incentive Data
 · Misc System Info
 · News
 · Email & SMS alerts
 · GBA
 Operational Info
 Charging
 Ten Year Statement

Data Item Explorer		Data Item Viewer			
Quality Indicator Legend E :Expired A :Amended C :Corrected S :Substituted L :Late Received					
 Download Data in :  CSV  XML					
Data for Daily Data Items		Data for Hourly Data Items			
Applicable At	Applicable For	Data Item	Value	Generated Time	Quality Indicator
16/07/2007 11:40:48	10/07/2007	Demand Actual, NTS, D+6	194.932	16/07/2007 11:40:48	
11/07/2007 12:43:43	10/07/2007	Demand Actual, NTS, D+1	194.732	23/08/2007 23:25:12	
11/07/2007 11:26:48	10/07/2007	SAP, Actual Day	.9583	11/07/2007 11:26:48	

Select combinations of items of your choice, eg Actual demand and SAP in a single query

Local intranet

- About the Gas industry
- Safety
- Streetworks
- Connections
- Operational Data**
 - Daily Summary Report
 - Instantaneous Flows Report (DEV)
 - Instantaneous Flows Report (FOF)
 - Energy - Daily Reports
 - Energy - Monthly Reports
 - Capacity - Daily Reports
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- Compliance Statements
- NG Storage

Data Item Explorer | **Data Item Viewer**

Quality Indicator Legend
 E : Expired A : Amended C : Corrected S : Substituted L : Late Received

 Download Data in :  CSV  XML

Combinations of items that make sense to you can be selected

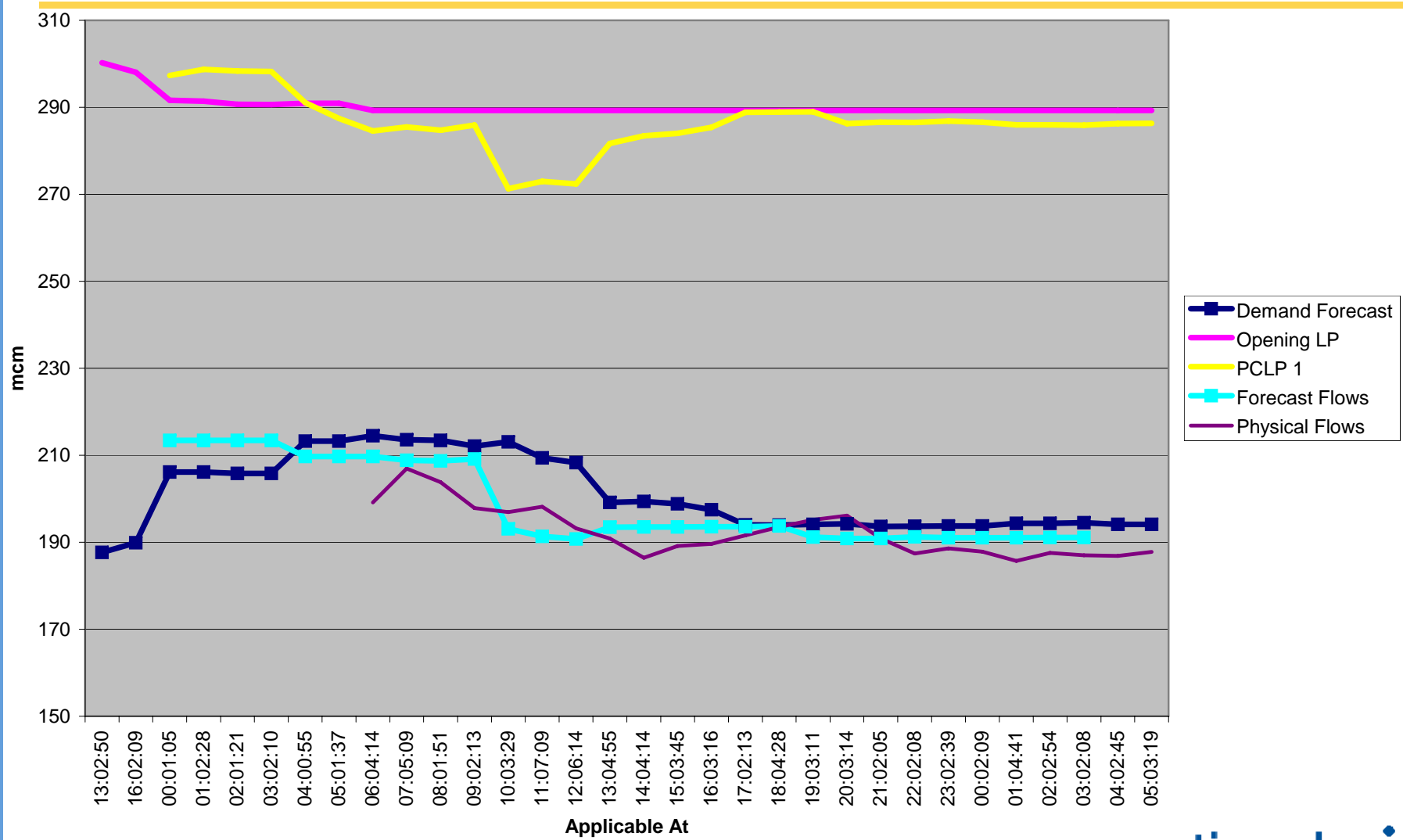
Data for Daily Data Items | **Data for Hourly Data Items**

Applicable At	Applicable For	Data Item	Value	Generated Time	Quality Indicator
12/07/2007 05:03:19	11/07/2007	Demand Forecast, NTS, hourly update	194.115	12/07/2007 05:03:19	
12/07/2007 05:03:19	11/07/2007	Opening linepack (interim)	289.28394	12/07/2007 05:03:19	
12/07/2007 05:03:19	11/07/2007	Predicted Closing Linepack (PCLP1)	286.29414	12/07/2007 05:03:19	
12/07/2007 05:00:58	11/07/2007	System Entry Flows, National, Physical	187.79857	12/07/2007 05:00:58	
12/07/2007 04:02:45	11/07/2007	Demand Forecast, NTS, hourly update	194.13928	12/07/2007 04:02:45	
12/07/2007 04:02:45	11/07/2007	Opening linepack (interim)	289.28394	12/07/2007 04:02:45	
12/07/2007 04:02:45	11/07/2007	Predicted Closing Linepack (PCLP1)	286.26986	12/07/2007 04:02:45	
12/07/2007 04:01:02	11/07/2007	System Entry Flows, National, Forecast	191.082	12/07/2007 04:01:02	
12/07/2007 04:01:02	11/07/2007	System Entry Flows, National, Physical	186.84705	12/07/2007 04:01:02	
12/07/2007 03:02:08	11/07/2007	Demand Forecast, NTS, hourly update	194.51491	12/07/2007 03:02:08	
12/07/2007 03:02:08	11/07/2007	Opening linepack (interim)	289.28394	12/07/2007 03:02:08	
12/07/2007 03:02:08	11/07/2007	Predicted Closing Linepack (PCLP1)	285.89423	12/07/2007 03:02:08	
12/07/2007 03:01:26	11/07/2007	System Entry Flows, National, Forecast	191.082	12/07/2007 03:01:26	
12/07/2007 03:01:26	11/07/2007	System Entry Flows, National, Physical	187.04352	12/07/2007 03:01:26	
12/07/2007 02:02:54	11/07/2007	Demand Forecast, NTS, hourly update	194.35047	12/07/2007 02:02:54	
12/07/2007 02:02:54	11/07/2007	Opening linepack (interim)	289.28394	12/07/2007 02:02:54	
12/07/2007 02:02:54	11/07/2007	Predicted Closing Linepack (PCLP1)	285.98577	12/07/2007 02:02:54	
12/07/2007 02:01:09	11/07/2007	System Entry Flows, National, Forecast	191.00912	12/07/2007 02:01:09	
12/07/2007 02:01:09	11/07/2007	System Entry Flows, National, Physical	187.54378	12/07/2007 02:01:09	
12/07/2007 01:04:41	11/07/2007	Demand Forecast, NTS, hourly update	194.32967	12/07/2007 01:04:41	
12/07/2007 01:04:41	11/07/2007	Opening linepack (interim)	289.28394	12/07/2007 01:04:41	
12/07/2007 01:04:41	11/07/2007	Predicted Closing Linepack (PCLP1)	286.09557	12/07/2007 01:04:41	

...downloaded to your own systems and manipulated.....

ApplicableAt	Demand Forecast	Opening LP	PCLP 1	Forecast Flows	Physical Fl
13:02:50	187.68648	300.21736			
16:02:09	189.90442	298.05238			
00:01:05	206.14003	291.61432	297.33259	213.40362	
01:02:28	206.14004	291.40171	298.70847	213.40362	
02:01:21	205.83787	290.71128	298.3202	213.40362	
03:02:10	205.83787	290.63544	298.24437	213.40362	
04:00:55	213.26228	290.9112	291.09571	209.73622	
05:01:37	213.26228	290.9126	287.42972	209.73622	
06:04:14	214.47662	289.28394	284.58672	209.73622	199.1696
07:05:09	213.55517	289.28394	285.50817	208.84507	206.9503
08:01:51	213.42856	289.28394	284.74368	208.72165	203.8265
09:02:13	212.08727	289.28394	285.96157	209.13623	197.8642
10:03:29	213.11464	289.28394	271.27439	193.06666	196.9441
11:07:09	209.41524	289.28394	272.9786	191.37671	198.1741
12:06:14	208.32693	289.28394	272.37691	190.73671	193.2068
13:04:55	199.16535	289.28394	281.70599	193.48149	190.8668
14:04:14	199.36902	289.28394	283.43962	193.55009	186.404
15:03:45	198.85964	289.28394	284.0176	193.55009	189.1182
16:03:16	197.49009	289.28394	285.38715	193.55047	189.6091
17:02:13	193.99995	289.28394	288.87769	193.55047	191.5549
18:04:28	193.97827	289.28394	288.89937	193.73433	193.5194
19:03:11	194.09679	289.28394	288.96465	191.18646	195.1455
20:03:14	194.23979	289.28394	286.27385	190.87962	196.1395
21:02:05	193.64786	289.28394	286.55888	190.87962	190.8912
22:02:08	193.66738	289.28394	286.53936	191.23912	187.4161
23:02:39	193.72047	289.28394	286.84577	191.00912	188.5652
00:02:09	193.72884	289.28394	286.6074	191.00912	187.818
01:04:41	194.32967	289.28394	286.00657	191.00912	185.7387
02:02:54	194.35047	289.28394	285.98577	191.082	187.5438
03:02:08	194.51491	289.28394	285.89423	191.082	187.0435

...and perhaps then graphed to make sense of it all.



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Data Item Explorer

Select Data Item(s)

Search Data Items:

- Balancing Summary - Balancing Action Quantity - LOC Bacton - D024-0
- Balancing Summary - Balancing Action Quantity - LOC Bacton - D06-12
- Balancing Summary - LOC BACTON, Total Cost
- Balancing Summary - LOC BACTON, Total Quantity
- Demand
 - Exit Point Actuals
 - Bacton Interconnector Export Flow
 - NTS Physical Flows, Bacton, EA, LDZ Offtake
 - NTS Physical Flows, Bacton, Interconnector
 - NTS Physical Flows, BactonBBL, NTS Power Station

Criteria

Latest Values:

Applicable At: Gasday Date Time

Applicable For:

From Date:

To Date:

Download Data in:

Search for data items, eg all data items for Bacton

MIPI

Functionality : Report Explorer

nationalgrid

Report Explorer

Select Report

Search Report Search Clear Search

- ⊕ Daily Summary Report
- ⊖ Energy - Daily Reports
 - ⊖ After Day
 - AB25-Shrinkage Factor
 - AOF-Actual Offtake Flows
 - DA10-View WCF / SF
 - NORD06-Gas Trading Report
 - NTS Shrinkage -Gas Procurement and Disposal
 - NTSEOD-NTS Entry End of Day Flow
 - OC46-Price Information History

Criteria

Gas Day

Download Report in : CSV XML

MIPI : Report explorer

- ◆ Gives access to predefined reports
- ◆ All of the reports transferred from IE3 are here, with content or layout changes kept to a minimum
- ◆ Intuitive 'tree' structure for reports
- ◆ Search facility to help find specific reports
- ◆ Select the **date** that you want the report for
- ◆ Do you want to just view the data or download it (and if so, what format is best for you ?)
- ◆ Daily Summary Report available from here as well, but no date selection available (it is just for now)

Report Explorer Report : NTSAFF

Quality Indicator Legend

E : Expired A : Amended C : Corrected S : Substituted L : Late Received

Download Report in : CSV XML

End of Day Aggregate Forecast Flows into the NTS

Gas Day: 10/07/2007

Forecast Date & Time: 12/07/2007 04:01

National (mcm)	North (mcm)	South (mcm)
191.082	98.96921	92.12279

Forecast Date & Time: 12/07/2007 03:01

National (mcm)	North (mcm)	South (mcm)
191.082	98.96921	92.12279

Forecast Date & Time: 12/07/2007 02:01

National (mcm)	North (mcm)	South (mcm)
191.00912	98.82733	92.18179

Forecast Date & Time: 12/07/2007 01:01

National (mcm)	North (mcm)	South (mcm)
191.00912	98.82733	92.18179

Report Explorer

Report : SISR04

Quality Indicator Legend

E : Expired A : Amended C : Corrected S : Substituted L : Late Received



Download Report in : CSV XML

Actual Demands

09/07/2007

Measured at D + 1

LDZ	Demand (MCM)
EA	5.204
EM	9.958
NE	5.998
NO	5.449
NT	6.732
NW	10.997
SC	7.497
SE	7.587
SO	5.804
SW	4.229
WM	6.626
WN	1.356
WS	5.004
TOTAL	71.444
NTS Throughput (excludes Linepack Change)	198.687

04/07/2007

MIPI

Automated Programmable Interfaces (APIs)

nationalgrid

MIPI : Automated Data Access

- ◆ Similar service to GMRS
- ◆ Web Services API for accessing data based on
 - ◆ Data Item Name (s)
 - ◆ Date Range
- ◆ Users will need to write their own clients and choose the data items they are interested in
- ◆ Supports Options provided in Data Item Explorer
- ◆ May wish to write separate clients for hourly and daily data
- ◆ HTTP Compression Enabled

MIPI : API supporting documentation

- ◆ Published on National Grid Site (1st Week of October 07)
 - ◆ API specification document (WSDL)
 - ◆ API User Guide
 - ◆ List of Data Item Names
 - ◆ API Sample File
- ◆ Technical session on APIs – October
- ◆ API support provided
 - ◆ Hasanat Khan (Tel : 01455 895638)
(e-mail : HasanatKhan1@uk.ngrid.com)

MIPI

Data issues

nationalgrid

MIPI : What Information is moving ?

Report Id.	Report Name	Report Id.	Report Name
DSR	Daily Summary Report	SISR04	Actual Demands
NB05	System Nomination Balance	AB25	Shrinkage Factor
NB92	System Status Information	DA10	View WCF / SF
NTSAFF	Aggregate Forecast Flows into the NTS	OC46	Price Information History
NTSAPF	Aggregate Physical Flows into the NTS	NTS Entry End of Day Flow	NTS Entry End of Day Flow
NTSDE	D-2 to D-5 NTS Demand Forecast Report	NORD03	Entry Capacity Trading Report
SV01	Daily Shrinkage Factors and Quantities	NORD07	Capacity Availability Report
SISR03	Forecast Demands	INEC	Interruption by Exit Zone / Cause
NORD01	Daily Balance Report	NTS Shrinkage	Gas Procurement and Disposal
NORD06	Gas Trading Report	LTI	Likelihood To Interrupt

MIPI : What new Information will be available ?

- ◆ New UNC obligated data :
 - ◆ NTS Exit point flow data UNC mod 121
 - ◆ Interconnector exit flows UNC mod 97a
 - ◆ LNG storage stocks UNC mod 104
- ◆ Data that was previously only available in graphical form on Daily Summary report e.g. CWV and SND data
- ◆ Standing data used to give context to other data, e.g. maximum terminal forecasts and entry capacity baselines

MIPI : What about information that isn't moving ?

- ◆ Majority of capacity information
 - ◆ All capacity auction related information
 - ◆ Data contained within existing Monthly reports
 - ◆ Miscellaneous info
 - ◆ Entry flow data (mod 006)
 - ◆ News
-
- ◆ All the above information will be accessed as before via existing menus
 - ◆ Information will be provided on the site to direct users to MIPI if they are looking for data that has moved

MIPI

Help !

nationalgrid

MIPI : Information Location

- ◆ Available from the National Grid website
 - www.nationalgrid.com
- ◆ Located with other market data provided by National Grid within the Operational Data area of the site
 - www.nationalgrid.com/uk/gas/data
- ◆ Situated on new buttons entitled
 - ◆ Prevailing View
 - ◆ Data item explorer
 - ◆ Report explorer
- ◆ Supporting documentation found in
 - ◆ Supplementary help

MIPI : Data and report definitions

- ◆ Every data item and report has a definition associated with it that helps the users understand the data and decide which item they want
- ◆ This information is accessed by hovering the mouse over the data item (in data item explorer) or report (in report explorer)
- ◆ For data items this information will include
 - ◆ a short data definition,
 - ◆ the approximate publication time,
 - ◆ the publication frequency
 - ◆ Unit Of Measure (UOM)
- ◆ For reports this information includes
 - ◆ A description of the data items included in the report
 - ◆ The approximate publication time
 - ◆ The publication frequency
 - ◆ The reason for report publication (eg UNC obligation xx.xx.xx)

[ias](#) | [Electricity](#) | [Wireless](#) | [Metering](#) | [Property](#) | [Interconnectors](#) | [Land and Development](#) | [Grain LNG](#)

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Data Item Explorer

Select Data Item(s)

Search Data Items

- Balancing
- Demand
 - Exit Point Actuals
 - LDZ Actual
 - LDZ Forecast
 - NTS Actual
 - Demand Actual, NTS, D+1
 - Demand Actual, NTS, D+6
 - NDM Scaling
 - NTS Forecast

Criteria

Latest Values

Applicable At Gasday From Date

Applicable For Date Time To Date

Download Data in :

Definition: Demand Actual, NTS, D+6
 Frequency: Daily
 UOM: mcm

National Grid: - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://10.143.2.119/mipi07/ReportExplorer.aspx> Go Links >>

- » [About the Gas industry](#)
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- » [Compliance Statements](#)
- » [LNG Storage](#)

Report Explorer

Select Report

Search Report

- +
- +
- **Energy - Daily Reports**
 - +
 - **Within Day**
 - [NB05-System Nomination Balance](#)
 - [NB92-System Status Information](#)
 - [NTSAFF-Aggregate Forecast Flows into the NTS](#)
 - [NTSAPF-Aggregate Physical Flows into the NTS](#)
 - [NTSDE-D-2 to D-5 NTS Demand Forecast Report](#)
 - [SISR03-Forecast Demands](#)

Criteria

Gas Day	27/07/2007	<input type="button" value="Go"/>	<input type="button" value="Refresh"/>
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Download Report in :

This report shows the latest available approved Forecast Demand (in MCM) for each of the LDZ's (Local Distribution Zones) for a single gas day, and also the sum of all LDZ forecast demand. Additionally the projected throughput (in MCM) for the same gas day is also displayed (this includes all LDZ's, Storage Injections, Interconnectors and NTS direct feed VLDMC demands).

javascript: __doPostBack('tvReports', 's0\\{282\\}285\\{51}') Local intranet

start | | 16:00

Data item naming

- ◆ Data items have been given names that hopefully are intuitive
- ◆ The individual data items could not always keep the name used in the report they originate from as the report often gives context to the data item
- ◆ A presentation has been produced which shows how the data item name maps to the report (some examples given below)
- ◆ A full list of data items will be provided via the website before go live
- ◆ If you still can't find what you want, try using the search facility within data item and report explorers
- ◆ ...but you can always contact us if you need to

NORD01 – Daily Balance Report...

End of Day Nominations Balance

kWh

Total Input Nominations	
Total Shipper Entry Point noms	4,144,484,916
Total Storage Withdrawal noms	713,863,685
Total Shrinkage nomination	0
Total	4,858,348,601
Total Output Nominations	
Agg. Output Nominations to end users	4,634,035,189
Total Storage Injection noms	9,122,766
Total Shrinkage Estimate	46,389,629
Total	4,689,547,584
Aggregate Nominations Imbalance	168,801,017

Nominations, Input, Entry Points

Nominations, Input, Storage Withdrawals

Nominations, Input, Shrinkage

Nominations, Output, End Users

Nominations, Output, Storage Injection

Nominations, Output, Shrinkage

Nominations, Output, Total

Nominations, Aggregate Imbalance

MIPI : Contacting us

E-mail address, website feedback form and phone number for technical questions :

- ◆ E-mail : sysop.centre.reporting@uk.ngrid.com
- ◆ Feedback form available within Operational Data on the website
- ◆ Telephone : 01926 654639 (answer-phone outside of normal office hours)
- ◆ FAQs
 - ◆ Available on the Operational Data page
- ◆ Notes and Website News updated as necessary

MIPI

- ◆ The new system will deliver real improvements in system performance and functionality
- ◆ Please make the most of it
- ◆ ...and bear with us through the early days and the undoubted tweaks that will be needed to meet all of your expectations
- ◆ Thank you