

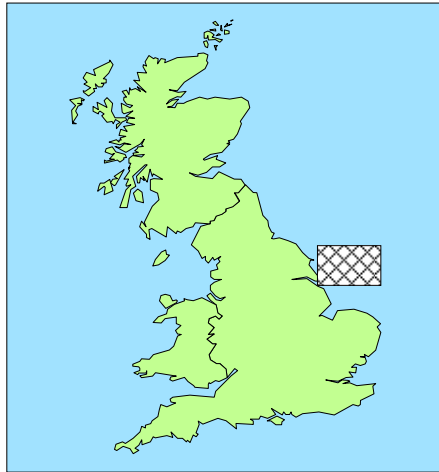
# Options for Energy Buyers – Winter 2005 (and beyond...)

**Centrica Storage**  
**7 November 2005**

**centrica**

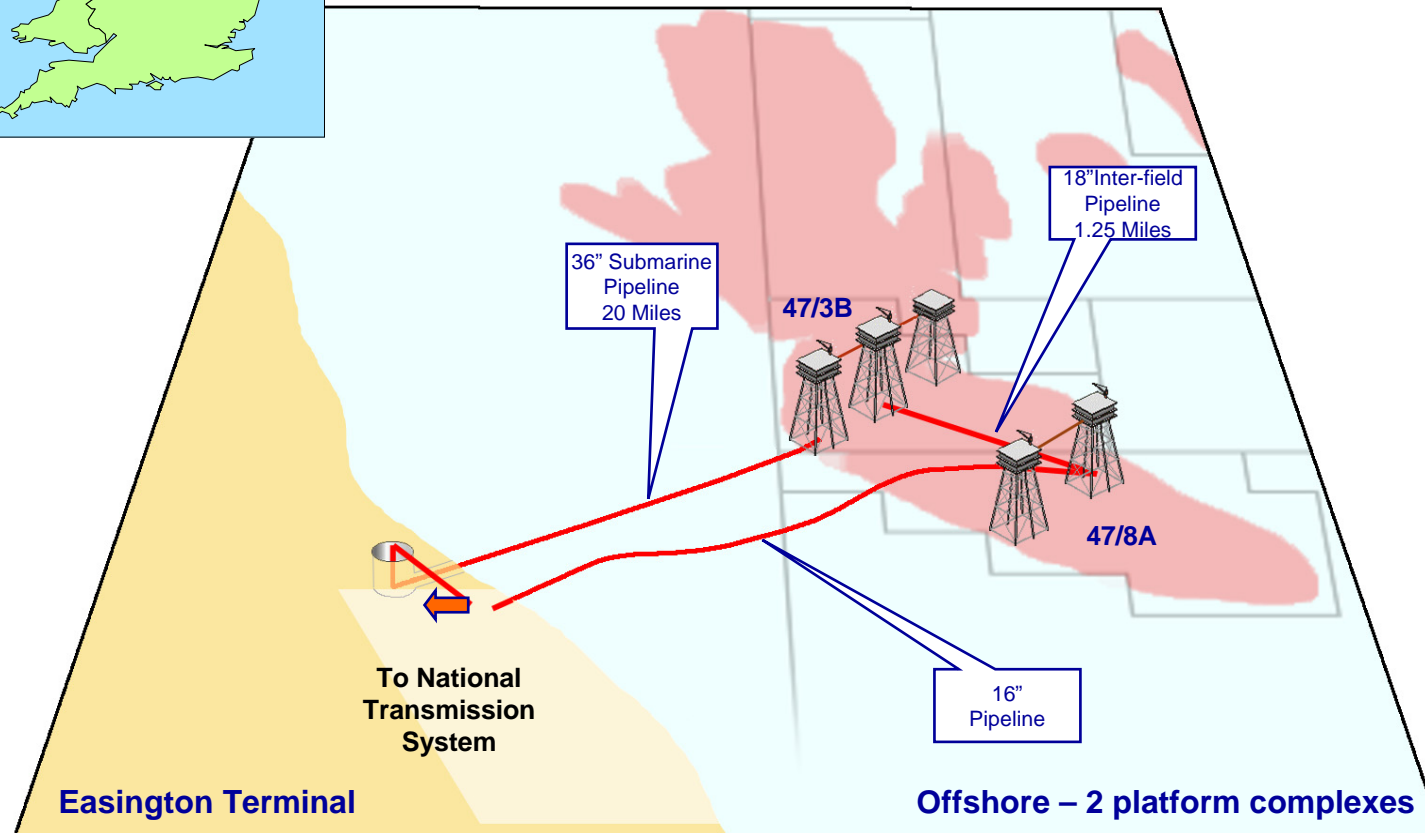
*taking care of the essentials*

# What is Centrica Storage?



## ***Centrica Storage Facilities***

- Offshore – Rough: 20 miles off Yorkshire coast.
- Easington Terminal for Rough, and third party gas processing.
- Commercial team: office in west London



# Introduction to Centrica Storage



**Offshore – 2 platform complexes**



**Easington Terminal**

- Rough – part-depleted gas field
- Represents over 70% of UK storage by volume
- Supplies 10% of UK demand on a typical ‘cold’ winter day
- 44> mcm/day deliverability, (25 to 0.5) mcm/day injectability
- **Storage customer base currently utilities, traders and producers**

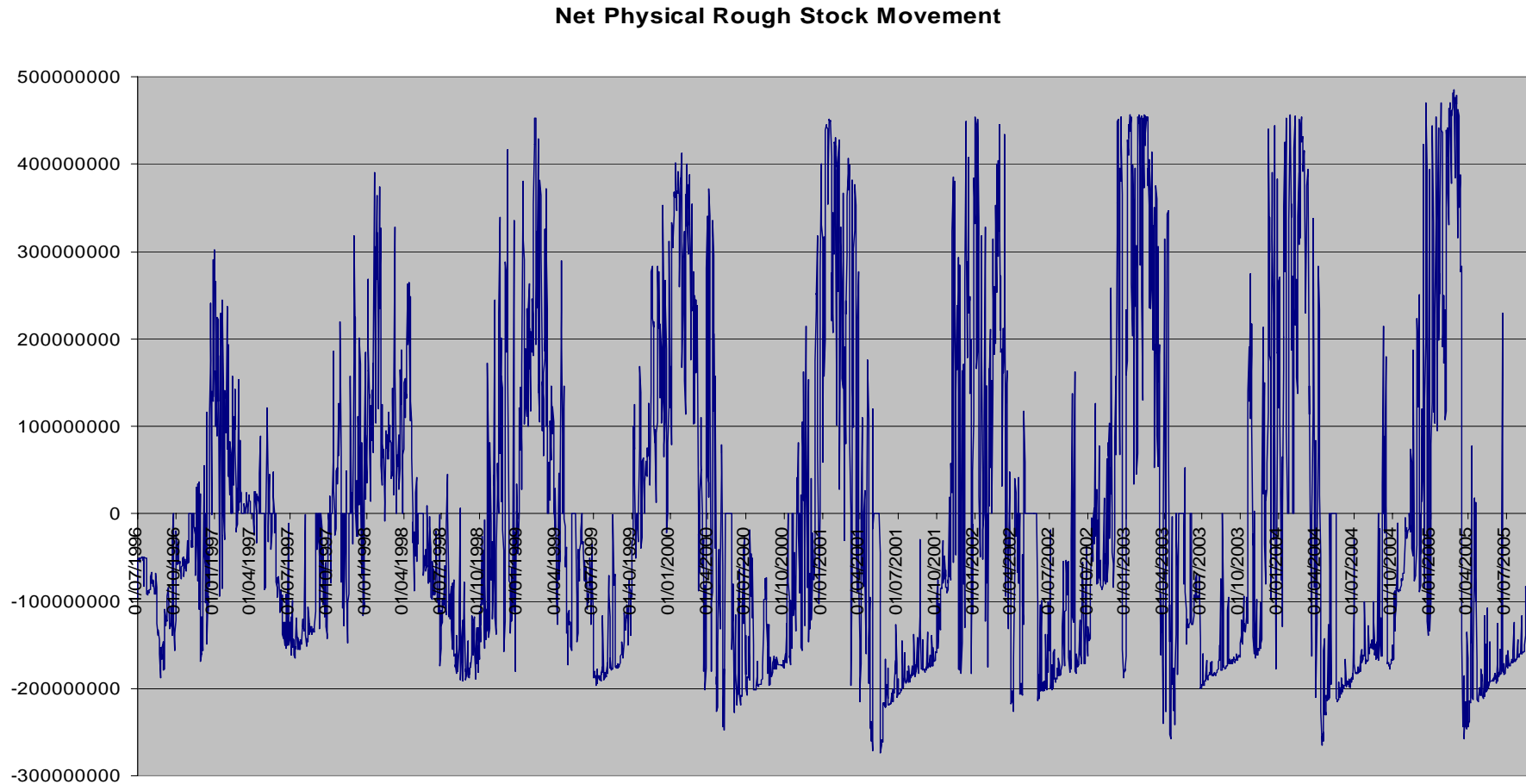


# Rough 2005 Performance Analysis

- Production
- Space
- Injection
- CSL Rough investment and enhancement programme
- Observations for Winter 2005
  - Rough is as full as the reservoir will allow
  - Therefore duration of storage increased (even without storage cycling – more on this later...)
  - Delivery rates at their highest

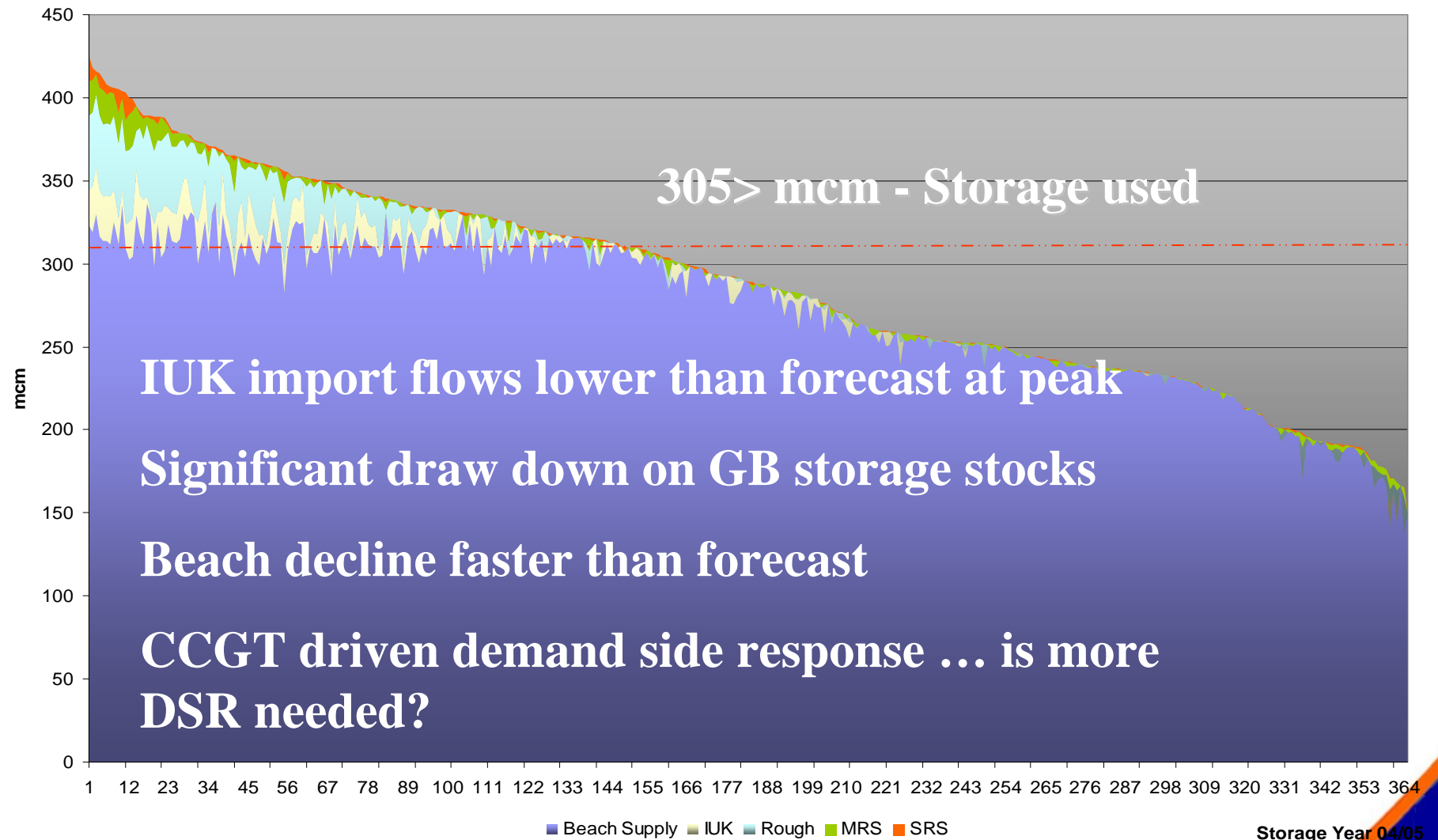


# Increasing use of Rough Storage



Source: Previously AT Link – now web enabled  
So how important is storage to balancing in Winter

## Actual Load Duration Curve 04



## Operational Information – the within day debate

- Shipper v's Energy Buyer knowledge within day?
- Release of web enabled 'timely' information to the market
- Is real time information the answer....?

“The information is out there.....”



- **OPTIONS FOR ENERGY BUYERS (1) – USE STORAGE INFO**
- Aggregate Site Nominations within day
- Physical stock movements for every day this winter after the gas day for each storage type
- Other storage sites...
- Information public section on STORIT – ad hoc bulletins



Centrica Storage Customer Access System - Microsoft Internet Explorer provided by Centrica Storage Ltd

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Centrica Storage Main Menu Help Logoff

Gas Day: 06.11.2005 - 1 new private bulletin(s) today

**Centrica Storage Bulletins**

Public Bulletins

Private Bulletins

Enter Bulletin

Edit Bulletin

**Public Bulletins**

Click on an option in the list below to view the public bulletin.

- Aggregate Site Nominations
- Maintenance Days and Factors
- Change to Injection/Withdrawal Lead Times for Rough Nom's
- Result of Additional Gas Storage Capacity for Winter 05
- Site Standby Status
- Prices for Standard Services
- Release of Additional Gas Storage Capacity for Winter 05
- SSC Modification Proposal 3 - CSL Injection Maintenance Days
- SSC Modification Proposal 2 (Revised Consultation)
- Notice of Telephone Recording
- Notice of Space Interruption
- Annual Average Charge Rates
- Average Summer Gas Price for Storage Year 2005/2006
- \*Legal and Privacy
- Services to Transco
- Statement About Our Services

# Instructions

<http://storit.centrica-sl.co.uk>

Click to logon to Public Area

Done Internet

start Sent Items - Microsof... Options for Energy B... Centrica Storage Cus... Document1 - Microsof...

10:37



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Edit Bulletin

Centrica Storage Bulletin

Aggregate Site Nominations

Before The Gas Flow Day

06.11.2005 - 16:00 D-1

Facility	Injections (kWh)	Withdrawals (kWh)
ROUGH	1,643,927	0

During The Gas Flow Day

05.11.2005 - 12:00

Facility	Injections (kWh)	Withdrawals (kWh)
ROUGH	1,717,778	20,401,276

During The Gas Flow Day

05.11.2005 - 15:00

Facility	Injections (kWh)	Withdrawals (kWh)
ROUGH	1,717,778	20,401,276

During The Gas Flow Day

05.11.2005 - 18:00

Facility	Injections (kWh)	Withdrawals (kWh)
ROUGH	1,717,778	7,200,451

End of Bulletin

Centrica Storage

Published: 05.11.2005 18:00

Done

Internet

start

Sent Items - Microsof...

Options for Energy B...

Centrica Storage Cus...

Document1 - Microsof...

Centrica Storage Cus...

10:40

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Centrica Storage Bulletin

Aggregate Site Nominations

Max = DIAF  
X 160 GWh

e.g. DIAF for 6  
Nov = 0.025 x  
160 = 4 GWh  
of capacity  
released

End of Bulletin

Centrica Storage

Published: 05.11.2005 18:00

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Centrica Storage

Published: 05.11.2005 18:00

Contractual  
max to 31  
January 472  
GWh

From 1<sup>st</sup> Feb  
455 GWh

Before The Gas Flow Day  
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Contractual

max to 31

January 472

GWh

From 1<sup>st</sup> Feb

455 GWh

EOD at 18:00 = 5.5 GWh withdrawal (0.5 mcm on PCLP)

Done

start

Sent Items - Microsof...

Options for Energy B...

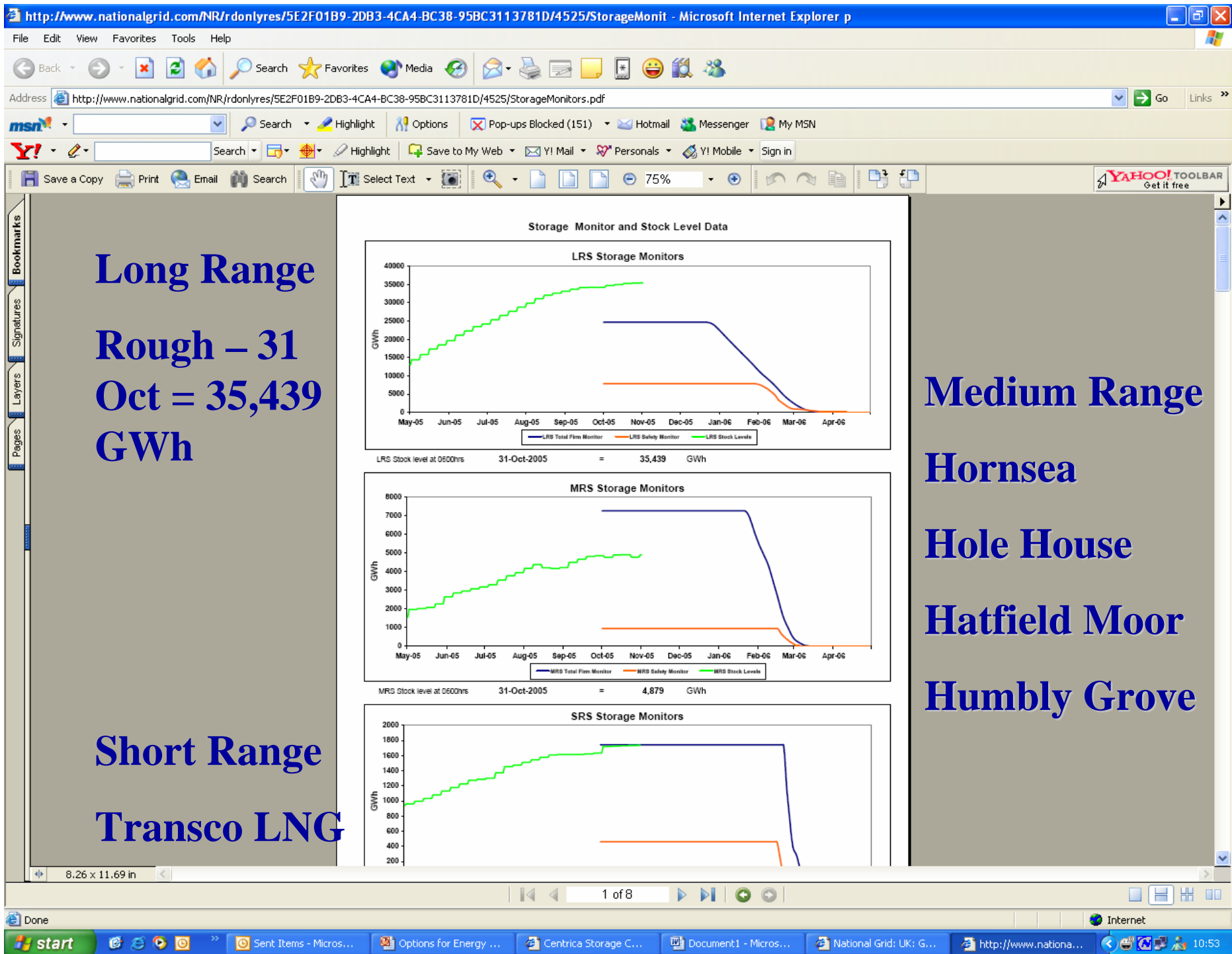
Centrica Storage Cus...

Document1 - Microsof...

Centrica Storage Cus...

Internet

10:40





# System Information

- Add these sites to your 'favourites'
  - <http://www.nationalgrid.com/uk/Gas/Data/> (Information on the system)
  - <http://www.nationalgrid.com/uk/Gas/Data/misc> (Storage Monitors)
  - [www.centrica-sl.co.uk](http://www.centrica-sl.co.uk) (back ground info)
  - <http://storit.centrica-sl.co.uk> (storage information)
  
- Any company signing our contract (SSC) and Credit Agreement get full access to STORIT (no obligations attached)



FileEditViewFavoritesToolsHelp

Back

Search

Favorites

Address

https://storit.centrica-sl.co.uk/storit/p\_cust\_menu.draw\_screen?in\_session\_id=749944C4F4A4D4D03158147F9770

Go

Links

Centrica Storage

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Logoff

# Centrica Storage Customer Access System

Nominations

Capacity Management

Inventory & Allocation

Billing

Centrica Storage Bulletins

Bulletin Board

Administration

St. Fergus

Glenmavis

Barrow

Partington

Dynevor Arms

Avonmouth

Isle of Grain

Bacton

Theddlethorpe

Easington

Hornsea

Teeside

Key

Terminal

LNG Storage

Rough Storage

Salt Cavity

Rough

Centrica Storage is the leading supplier of physical gas storage services in the UK.

The Rough facility is a partially depleted gas field supplied from Easington terminal offering flexible deliverability from a large storage volume.

The STORIT system provides the connection between Centrica Storage and its customers for operational communications. Customers should call the Duty Commercial Officer on +44 (0) 1784 415 301 for advice on any aspect of Centrica Storage services.

Done

Internet

Applies the SSC in a user friendly way!





## **OPTIONS FOR WINTER 2005 (2) – USE ROUGH**

- **Agree credit and your company can access Rough storage services**
  
- **SECONDARY capacity available**
  - **CSL WILL facilitate secondary trading of capacity**
  - **There are always sellers!**
  
- **INTERRUPTIBLE capacity offers**
  - **CSL WILL release all available capacity to the market**
  - **CSL WILL make space zero price from January 2006 to enable storage cycling**





## OPTIONS FOR FUTURE WINTERS

- **FIRM capacity offers for future years**
  - **Choice of fixed or indexed prices, single or multi year**
  - **Or access to short term interruptible capacity**
  - **Third Party Capacity (i.e. Non Centrica)**

**Technical Capacity = 455 m/SBUs**

- **2006/7 – 373.1 m/SBU (75%> sold out)**
- **2007/8 – 377.7 m/SBU (20%> sold out)**





# Centrica Storage Limited

WHY SHOULDN'T LARGE GAS USERS BUY STORAGE CAPACITY..?

QUESTIONS...?

[www.centrica-sl.co.uk](http://www.centrica-sl.co.uk)

Sales and Marketing Information/Queries:

James Lawson +44 (0) 1784 415 304

Analysis Queries:

Andrew Prangle +44 (0) 1784 415 324

Jitendra Patel +44 (0) 1784 415 339

Email: [firstname.lastname@centrica-sl.co.uk](mailto:firstname.lastname@centrica-sl.co.uk)

