Options for Energy Buyers Bloomberg Offices

8 November 2006

Centrica Storage Limited



Rough Storage use for Winter 06 and beyond

- 1. Introductions to CSL
- 2. The role of storage in GB
- 3. Rough Recovery
 - Options for Energy Buyers (1) Rough Update
- 4. Storage Outlook for Winter 06
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- 7. Operating with Rough Storage in your portfolio

An introduction to Centrica Storage

- Centrica Storage Limited is a wholly owned subsidiary of Centrica plc
- Centrica Storage is a ring-fenced part of Centrica plc, separated from the supply side legally, physically and financially (Chinese walls).
 Undertakings agreed with Secretary of State December 2003 governing operation of Rough



Introduction to CSL - Facilities overview

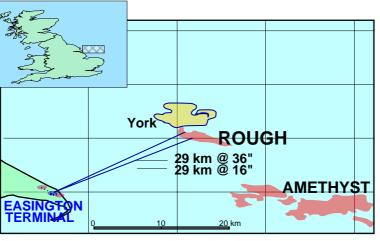


Hedon, near Hull Administration/engineering



47/3B Installed 1983 24 wells 24/7 Operation





47/8A Installed 1977 6 wells 24/7 Operation

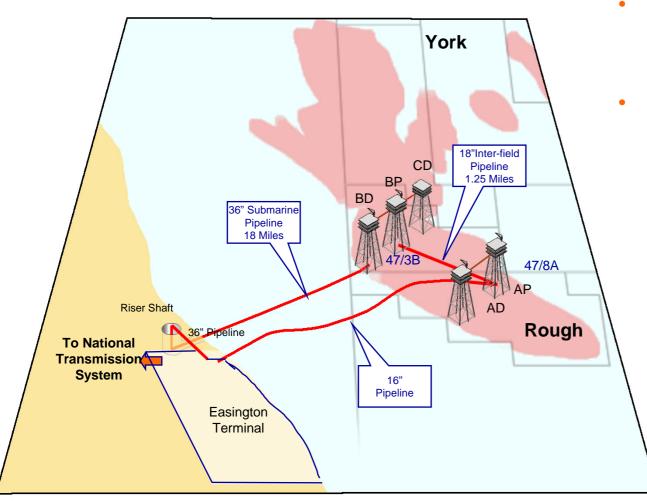
Easington Terminal

Rough gas processing Amethyst gas processing Tie in to National Transmission System 24/7 Operation



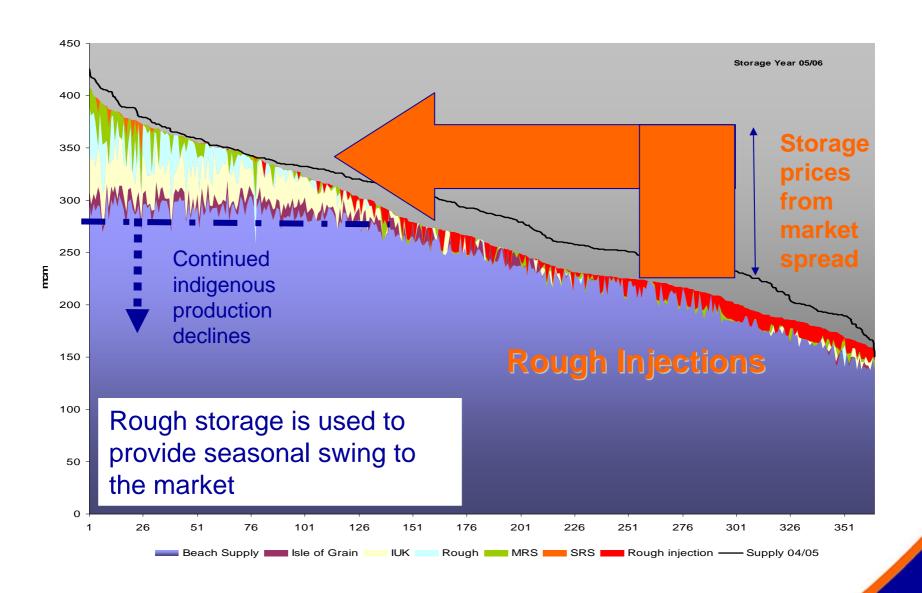
Venture House, Staines Headquarters and Commercial office 24/7 Operation

Introduction to Centrica Storage – Process Overview

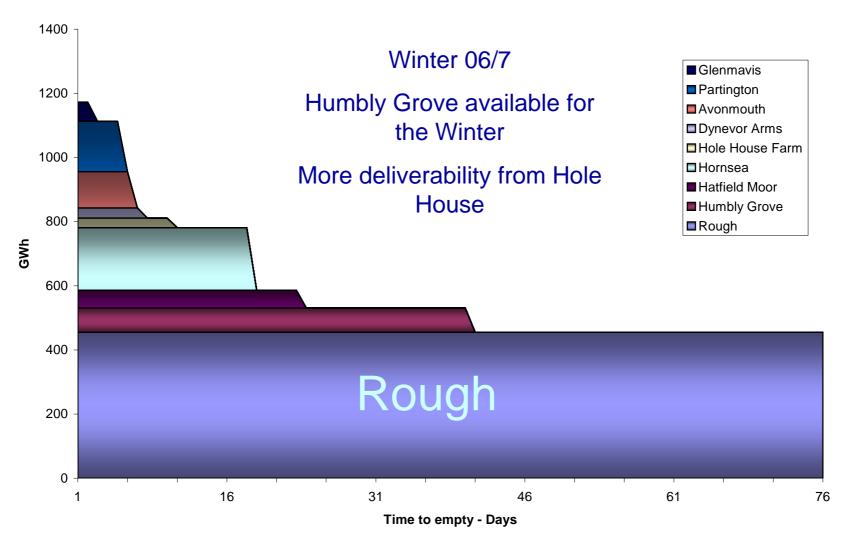


- Represents 74% of UK storage and supplies 10% of UK peak winter demand
- Largest offshore gas storage facility in Western Europe (strategically important).
 - 185 billion cubic feet (bcf) cushion gas
 - ~118 bcf storage capacity
 - Deliverability max 44.8mcm/day
 - Average Injection ~15mcm/day
 - Onshore processing terminal at Easington for Rough, Amethyst, Rose and Helvellyn processing (third party gas).

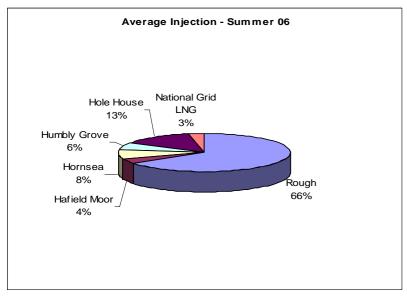
Actual GB Load Duration Curve 05/06

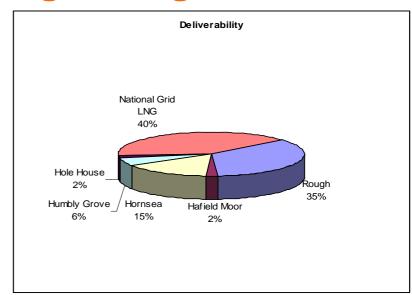


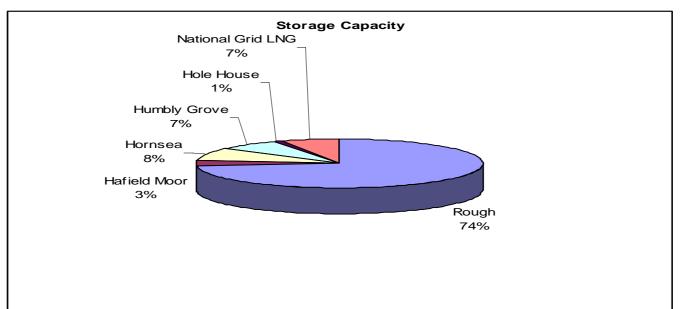
Existing UK Storage Facilities Winter 05/06



Rough's place in the storage and gas market







Recovery Program - Statistics

Phased Recovery completed to plan

- Phase 1 remanning: full extent of damage unknown, installations 'black'
- Phase 2 reinstatement of injection operations
- Phase 3 reinstatement of production operations
- Potential for reoccurrence eliminated

Over 400,000 man-hours worked

Safety

- Zero lost time accidents
- No Safety or Environmental incidents

Quality

- >500 Flange Joints made
- No hydrocarbon leaks, minimal rework start up first time to plan

Time

- Phase 2 112 Days from incident to recommence injection
- Phase 3 217 Days from incident to become production ready

Cost

Circa £30 million project

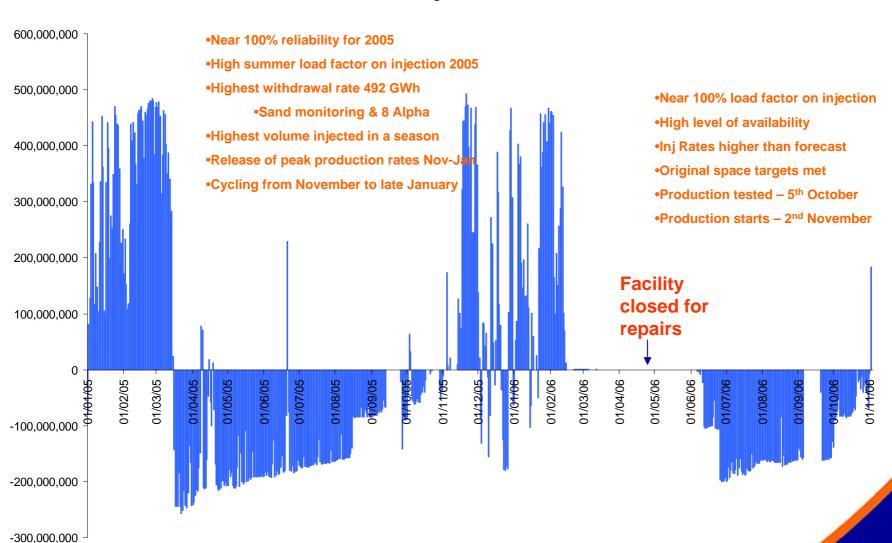
Execution

Planned, resourced, managed and implemented by CSL

CSL – Rough Flows

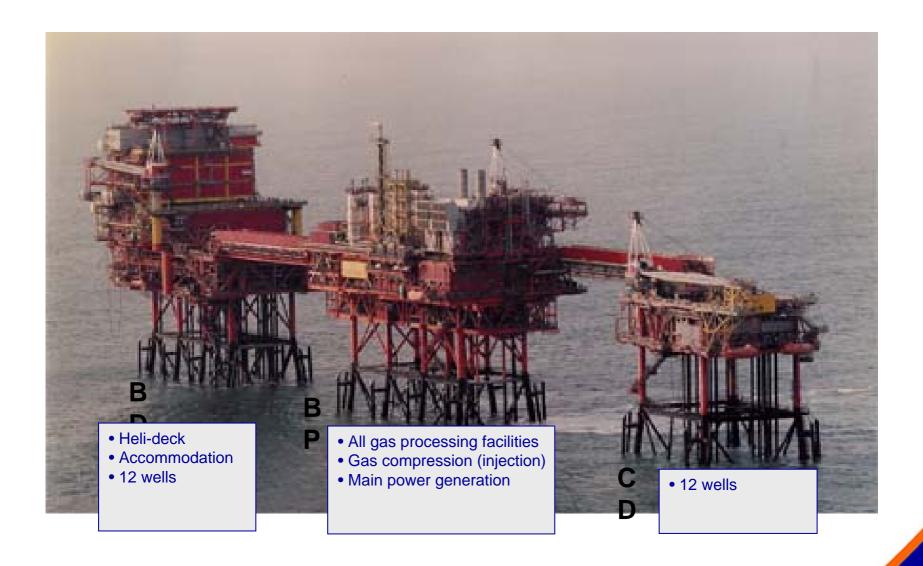
£50> million spent on Rough by CSL to date!

Net Storage Movement



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Centrica Storage Limited – New Production Process



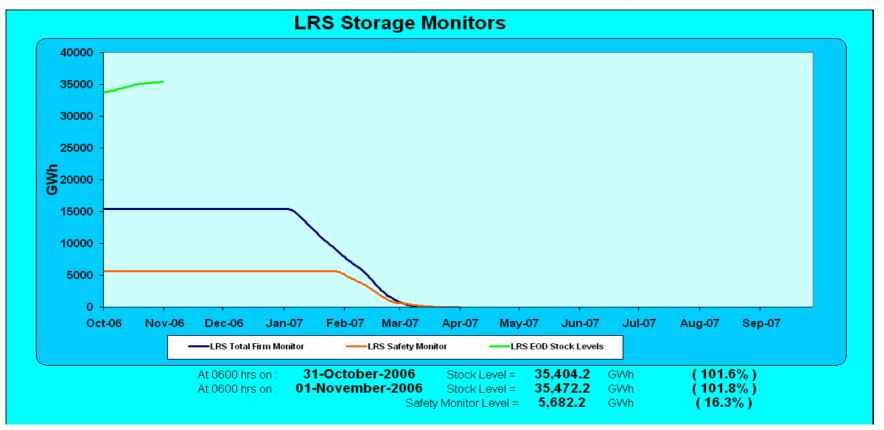
Process Changes Bypassing dehydration and running sealine wet

- Modifications based upon running the Rough 36" sea line 'wet'
 - Bypass the Rough 3B Glycol Dehydration Trains
 - Installation of large header and return pipework
 - Glycol Contactors, Production Separators and Glycol Regeneration Packages become redundant
 - ESD System extensively modified to reflect changes
 - Install new Hydrate / Corrosion Inhibitor Chemical Injection Skid on both Rough 8A and Rough 3B
- Two Injection aftercoolers modified to eliminate failure mode and return to four injection cooler operation
- Outcome:
 - Offshore production process simplified
 - Injection aftercooler duty improved
 - Pipeline corrosion management regime enhanced

1st NOVEMBER – ROUGH STORAGE FULL 116.5 bcf! (78 day service)

- FM on Injection lifted from Gas Day 18th July 2006
- Rough returned to injection early June 112 days after the FM
- Since the return to physical injection operations in June CSL has filled in excess of 58 bcf of space before the end of winter
- Full production rates available following the return from annual maintenance in September
- All production trains were tested in turn 5th October 2006
- Commercial withdrawals began 2nd November 2006!

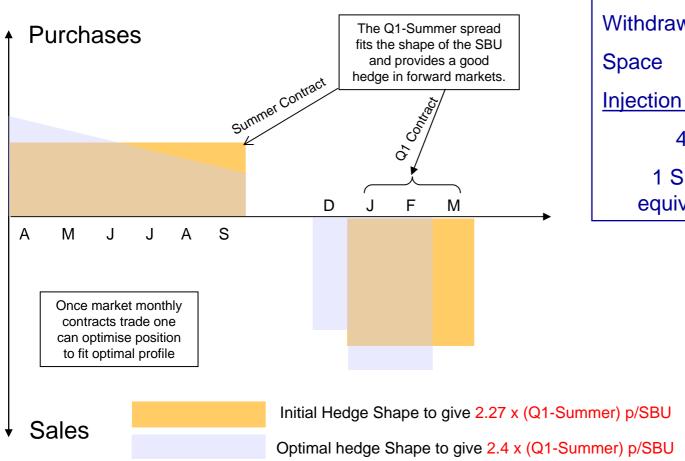
Options for Energy Buyers (2) - Storage Information



- •http://www.nationalgrid.com/uk/Gas/Data/misc/
- •http://storit.centrica-sl.co.uk (aggregate site nominations within day)
- •CSL supportive of attempts to drive forward transparency in the UK and Europe where appropriate



Options for Energy Buyers (3) – Book storage Rough – SBU pricing and intrinsic value



Standard Bundled Unit (SBU)

Withdrawal 1 kWh/day

Space 67 kWh

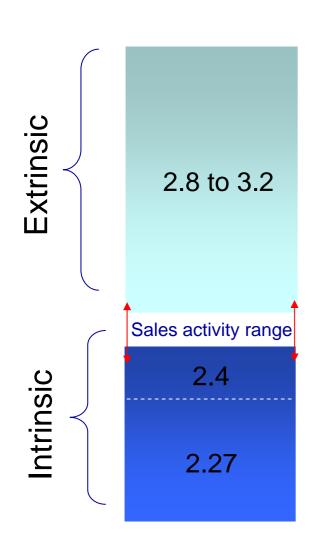
Injection 0.35 kWh/day

455m SBU's sold

1 SBU provides space equivalent to 2.27 therms



Unlocking the extrinsic value



Good Rough Reliability from high availability of the asset to CSL and customers

Customers able to reshape the CSL product or sell/buy unused capacity as firm or interruptible

Customers able to buy/sell gas in store

Ability to re-nominate withdrawal/injection with short lead times

Customers nominated quantities equal their allocated quantities – irrespective of asset availability

Market volatility provides cycling ability to leverage greater value from a Rough SBU

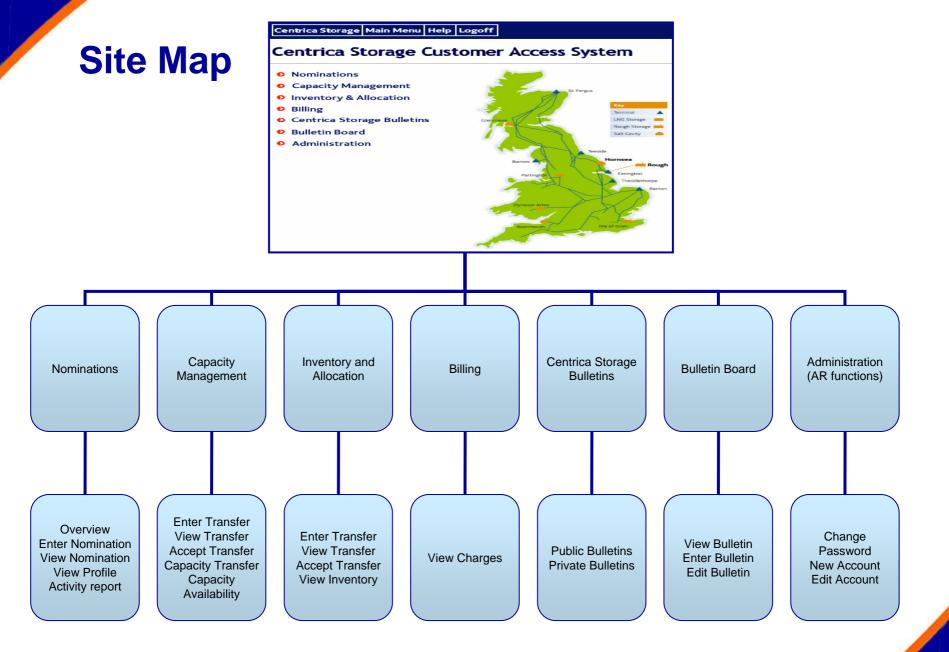
Extrinsic value from use of Rough on 100+ days beyond intrinsic valuation

Potential upside to 2.4 intrinsic as Dec – Mar spread increases on Fundamental change to winter contract

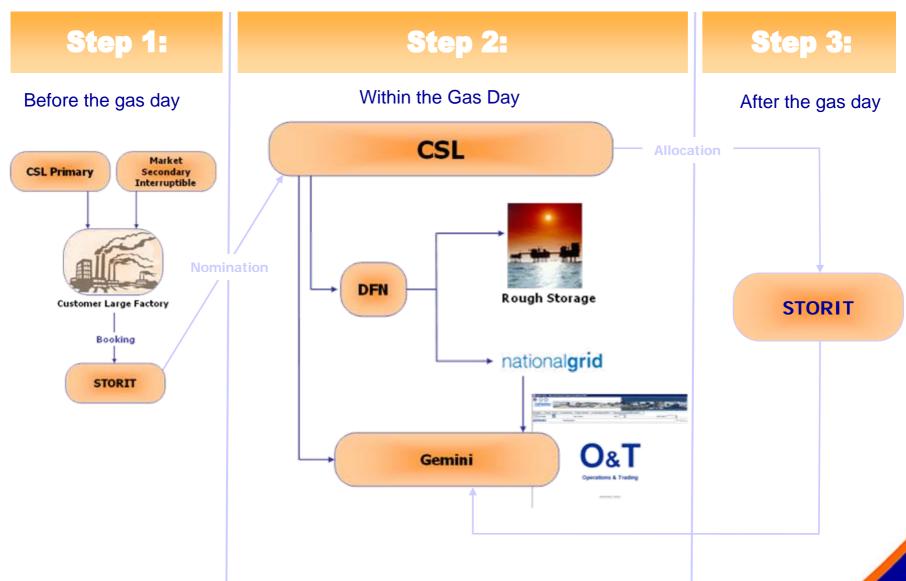
Re-optimise hed<mark>ge in m</mark>ore liquid market – further intrinsic value

Initial Intrinsic Hedge in product-limited market fits shape of Rough

Poor Rough Reliability
Injection Cancellation
Long Injection Period
Force Majeure



Operating with Rough Storage



Summary

- Storage has a key role to play in efficient gas market and balancing
- Market responding to need for more storage duration still an issue but far better placed for demand/supply shocks in future
 - Subject to planning consents!
- Increased interconnection may increase the potential for storage cycling
- CSL has spent £50m> investing in Rough and plans to spend more
- Rough was full before the onset of Winter
- Rough back producing/storing our customers gas

Centrica Storage Limited

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

QUESTIONS...?

www.centrica-sl.co.uk

Sales and Marketing Information/Queries:

James Lawson +44 (0) 1784 415 304

Analysis Queries:

Andrew Prangley +44 (0) 1784 415 324

Jitendra Patel +44 (0) 1784 415 339

Stuart Waudby +44 (0) 1784 415 305

Email: firstname.lastname@centrica-sl.co.uk