

Options for Energy Buyers/ Gas Contingency Arrangements

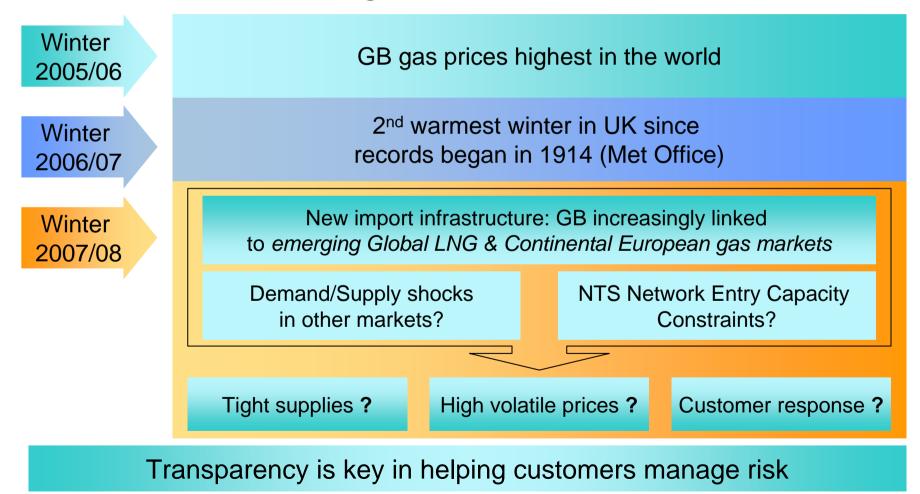
Looking ahead to winter 2007/08

17 July 2007

Philip Davies: Director, GB Markets, Ofgem



Why are we here?

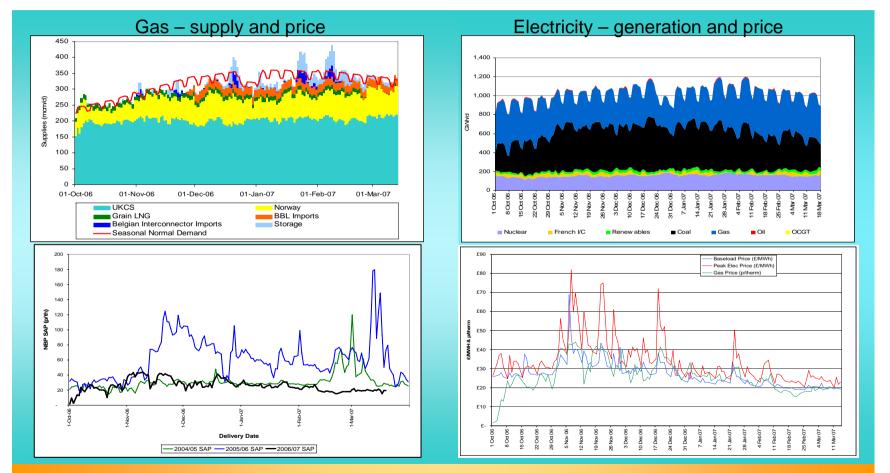




Experience of winter 06/07



Warmest winter in the UK since 1914



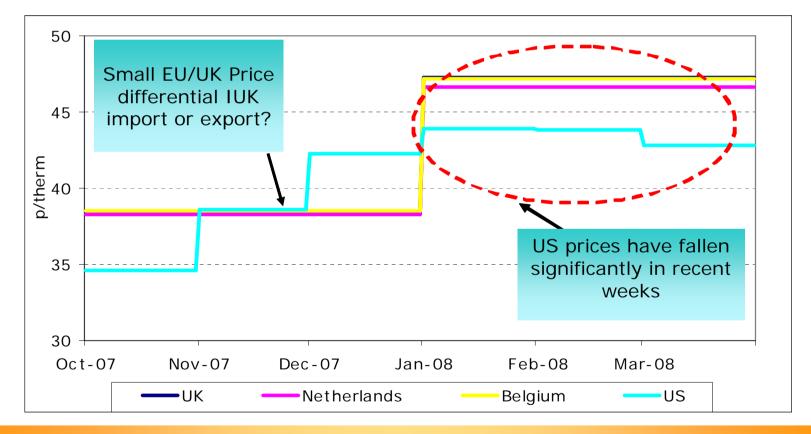
Prices are inherently volatile



Looking forward to winter 07/08 - Gas



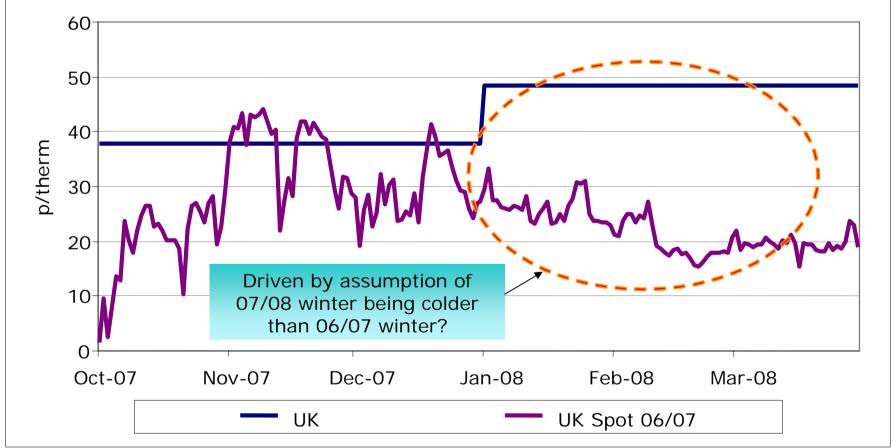
Wholesale gas price expectations



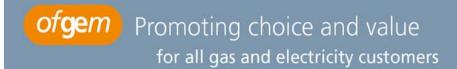
European and global markets increasingly important for GB



Wholesale gas price expectations weather key for demand



Initial Met Office forecast for Dec-Feb to be released mid-July



Update on key gas issues – Trade and Transfer arrangements

Existing regime gives LT investment Signals to NGG about where additional capacity is needed on the NTS Shorter term arrangements are required to ensure capacity can respond flexibly to shipper demand

Pattern of gas supplies and imports to GB is constantly changing

 Demand for entry capacity at each terminal can change quickly Need capacity to be available at the terminals where shippers wish to land gas

Transfer and Trade arrangements to be implemented for this winter



Update on key gas issues – Entry capacity – NG's roles and responsibilities

National Grid

Licence and statutory obligations to ensure all physically available capacity is released to shippers

Commercial incentives to maximise capacity offered

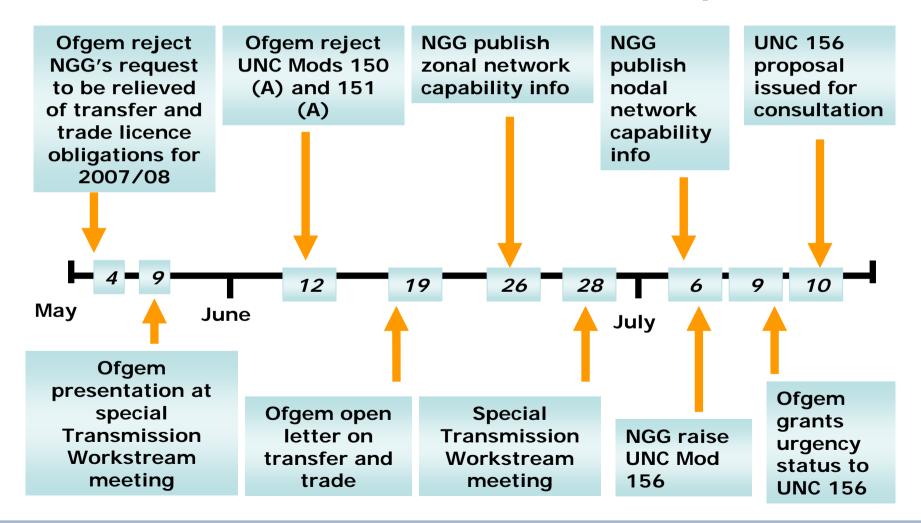
Work with industry to deliver obligations on entry capacity trade mechanisms Commercial tools at NG's disposal to manage capacity constraints

Ability to sell additional firm and interruptible capacity before or on each gas day

Entering into forward or options contracts to "buy back" capacity Ofgem Monitor NG Investigate and take action where necessary

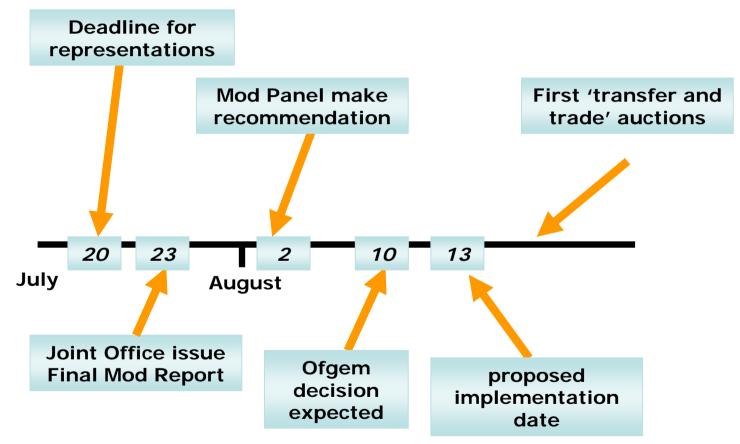


Transfer and trade – recent developments





Timetable for UNC 156



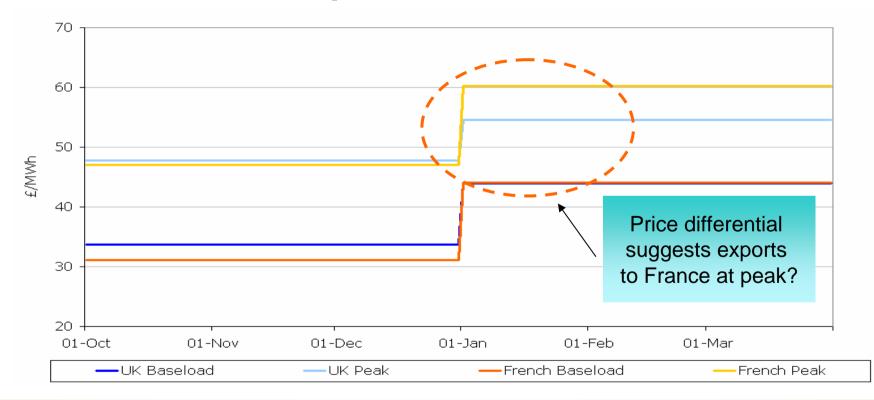
UNC 156 – "Transfer and Trading of Capacity between ASEPs"



Looking forward to winter 07/08 - electricity



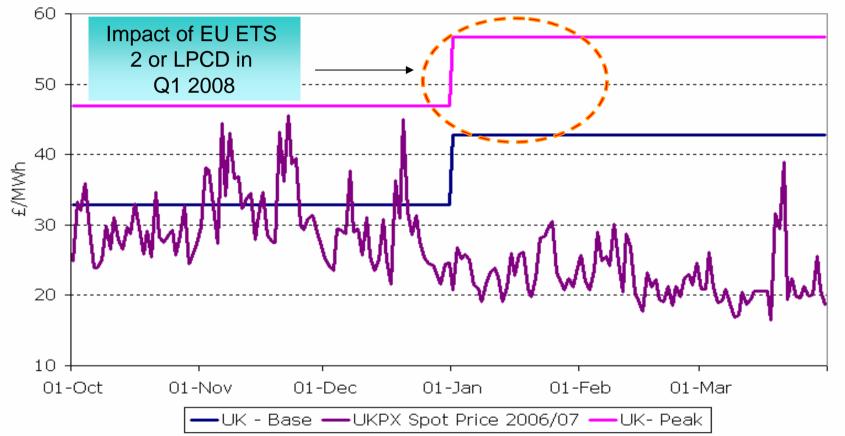
Wholesale electricity price expectations – European interactions



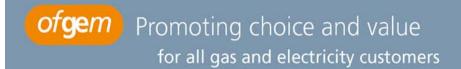
GB electricity market expected to be increasingly interconnected with Europe



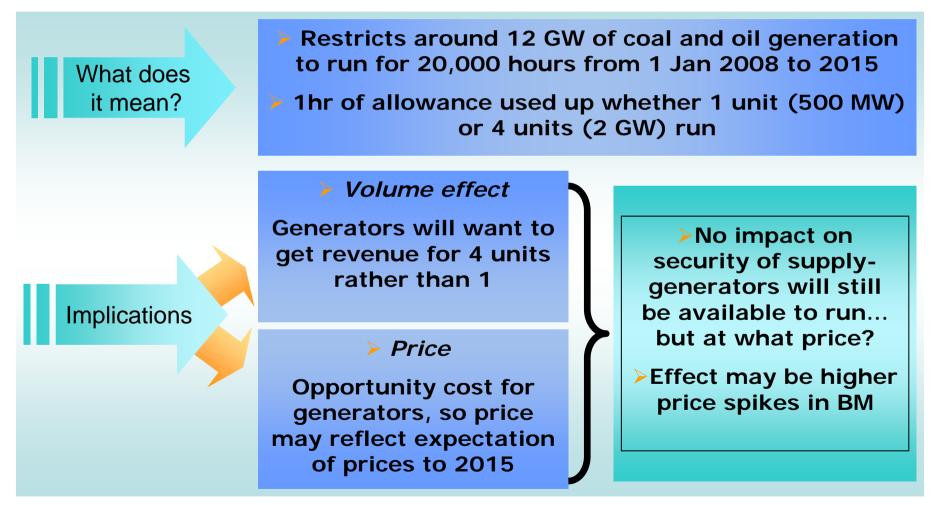
Wholesale electricity price expectations – Environmental interactions



EU ETS 2 & LCPD expected to impact price NOT security of supply

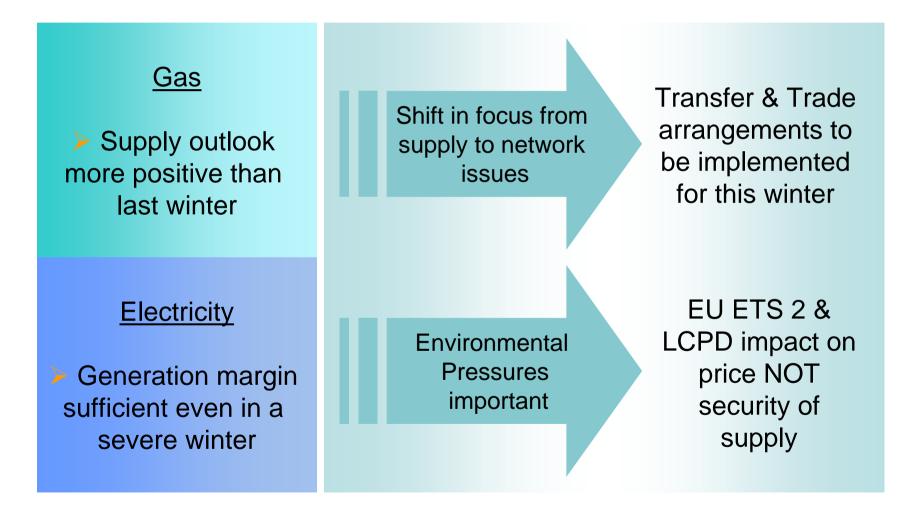


Update on key electricity issues – Large Combustion Plant Directive (LCPD)





Summary

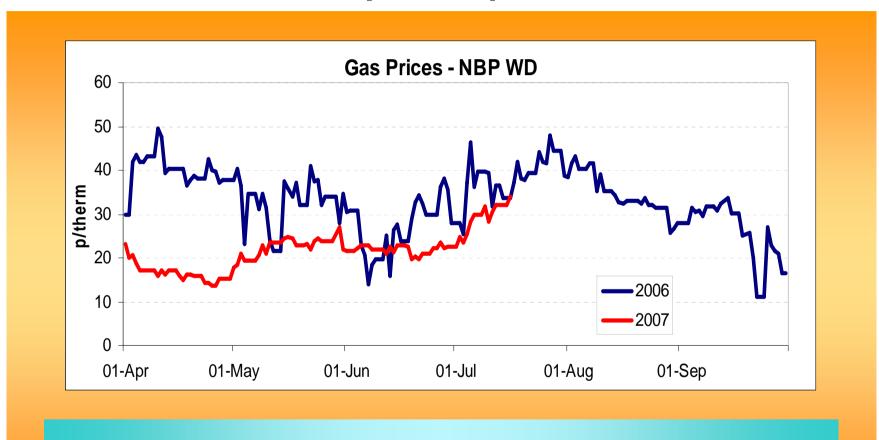




Summer 07 update



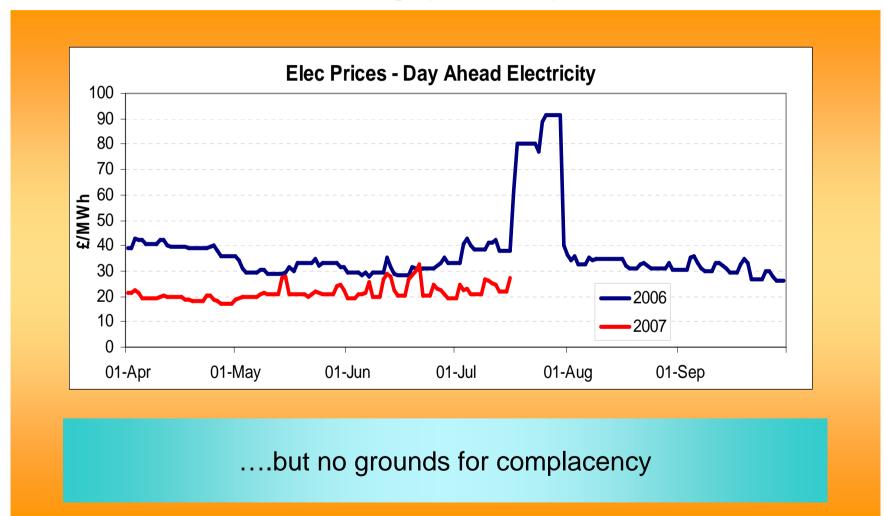
Gas price update



This years spot prices appear to reflect improved supply availability



Electricity price update





European Outlook



European Transmission System Operators (ETSO) Winter Review for 2006/07

Lessons learned

- Weather conditions (past and expected) should be the key consideration in developing the ETSO Winter Outlook Report
 - •Unplanned outages and changes to maintenance periods drive variation between forecast and actual capacity on the day
 - Co-operation between TSOs and operations is crucial to manage power shortage situation
 - National balance cannot be approached in an isolated manner



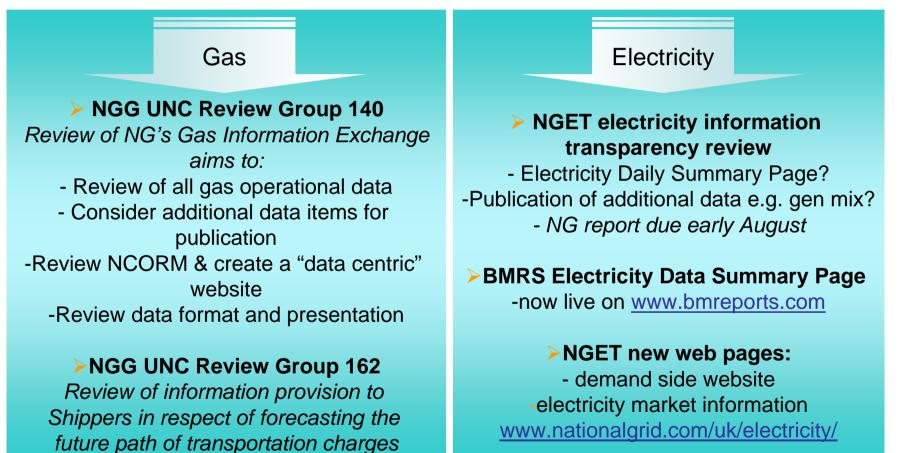
http://www.etso-net.org/upload/documents/Winter%20Review%20Appendix%20FINAL.pdf



Information remains key



Developments in information release



Customer input is essential as these projects move forward



Electricity Data Summary Page

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Elexon National Grid BM Reporting	This summary page has been produced to provide centralised	access to key electricity data. ELEXON welcomes any suggestions on ccess from this page – please contact the <u>ELEXON help desk.</u>	Control Contro Control Control Control Control Control Co				
Contact Us Electricity Data Summary	System Information The <u>systems warning page</u> gives details of any system warnings issued by National Grid e g. Notice of Insufficient Margin (NISM), High Fitsk of Demand Reduction (HRDR) or Demand Control Imminent (DCI). <u>Real Time Frequency</u> Data is available for the last sixty	56.40 31.7 32.1 32.0 30.00 fr free contraction of the second seco	General Information Generalized Market Honordown Generalized Info Generalized Enterment Ganth Santh Santh Santh Saysters	National (ond will publish a regis at the Bickstork Operational For White the beadline for feedback feedback on improving Informat in the distinct Que rund I con de Where can I find out more Futher information can be foun 5. UMC weather Elisson – Bi	r was the 13 July 2007, National Orid on Transparence. For such feedback c 0118 936 3391).	 This report will also be precented continually welcomes ideas and s, preser contact rebonal industry websites (pipe to replictive 	
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	Market Information Select IMBALNGC from the <u>Day and Day Ahead</u> Margin page to display the forecast imbalance position. The <u>system prices</u> page displays indicative System Buy Price (SBP) and System Sell Price (SSP) values for today an	This graph shows system frequency for the last sixty minutes. Please note that the graph refreshes itself every few seconds, but may need manually refreshing if left open for a prolonged period. This graph and data kindly provided courtesy of National Grid.				elopme	
		System Demands System demand outturn data is available for the <u>previous</u> and current day, the last <u>sight minutes</u> (see chart to left), the last <u>wenty-four hours</u> or the last <u>sight days</u> . Historical data is also available for <u>download</u> . For the day and day ahead, forecast <u>demand</u> and <u>margin</u>	× -	electricity transparency being developed through the DSWG			

www.bmreports.com/dsr.htm / www.nationalgrid.com/uk/electricity



Current industry information initiatives

	Proposals to be implemented October 2007	
UNC 121	Provision of ex-post demand info for all NTS off-takes	\checkmark
	Proposals with Ofgem for decision	
UNC 104	D+1 publication of storage stock info at LNG importation facilities - (minded to accept)	?
UNC 088	Facilitate the use of smart metering by non daily metered medium sized I&C customers	?
	Proposals with industry for consideration	
UNC Review Group 140	Review of information provision on National Grids Information Exchange website	

ofgem Promoting choice and value for all gas and electricity customers

Energy Markets Outlook (EMO)

Energy White Paper commitment to

"a new energy market information and analysis service from this autumn" that "will be jointly run by DTI and Ofgem"

Analyse potential developments in gas and electricity markets over next 15 years

provide industry participants with credible long term market scenarios

First annual report to be launched in the autumn

Stakeholder engagement will be key - consultative process



Transparency in Europe - GSE Gas Storage Investment Database



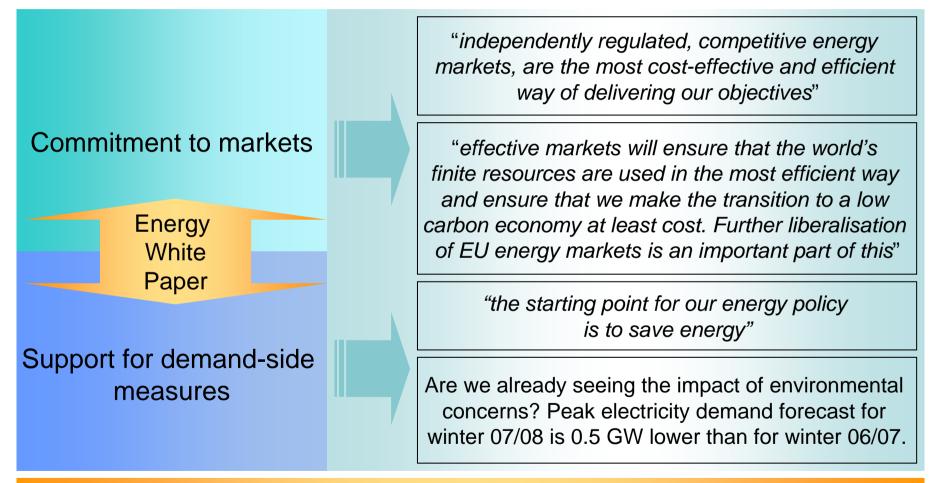
www.gie.eu.com/gse/storageprojects/



Other policy developments



Government and European Energy Policy



European "Third package" of liberalisation legislation due 26 September 2007



What Ofgem is doing

 SO Review Full review of electricity and gas SO functions and incentives Need for multi-year incentive schemes to increase long-term incentives Consultation in July 			 Distributed Energy Potential to increase security and reliability of supply Ensure fair treatment in network operation/regulation 		
GB Ma Cash out Review > Wide ranging review in 2007 > Aim to simplify current arrangements > Industry input key (Mods P211/212)		rkets • Potential supply constraint • Market participants need to consider need for investment • Document just published			
 Demand Side Working Group Continue to identify barriers to de side participation Strong focus on improving transparent 		Smart Metering P included vision for universal smart meter roll out in medium term Government to consult			



Gas contingency arrangements introduction

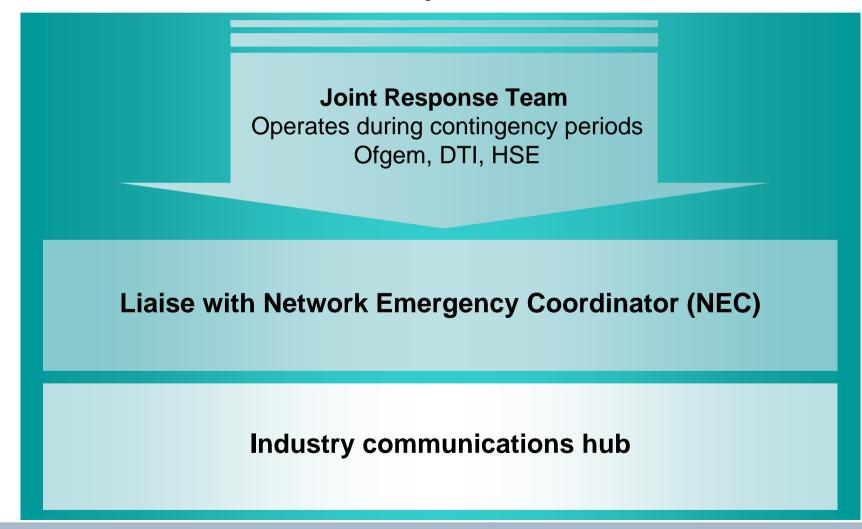


Impact and implications for customers

Market arrangements	Contingency arrangements			
Commercial tools	Commercial tools			
available	Restricted / removed			
 > Operation of OCM > Commercial demand side response / interruption 	 Emergency stages apply Firm load shedding can occur 			
Opportunities for customer /	Command and control in force –			
supplier response	less flexibility			

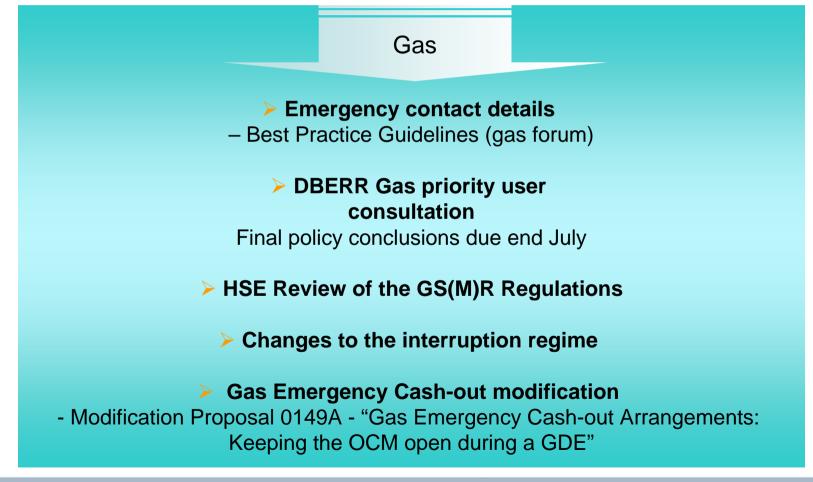


Joint Response Team



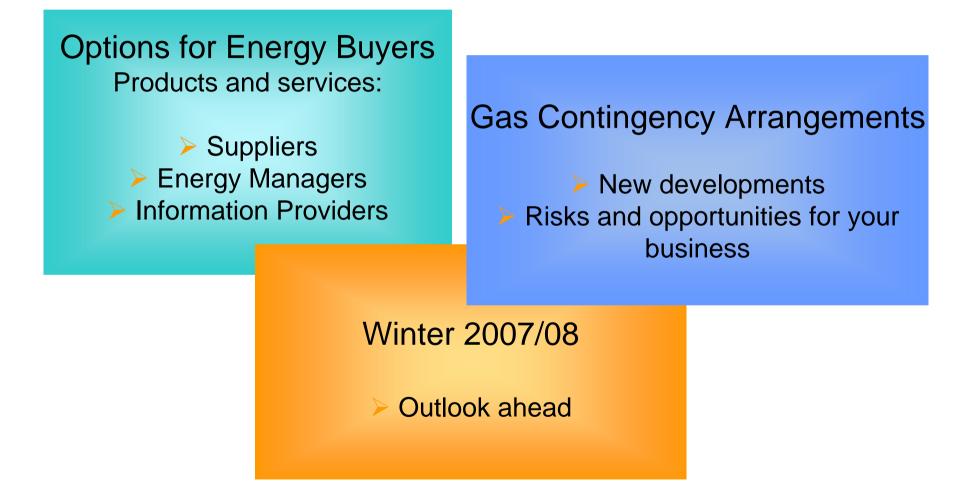


Other developments in gas and electricity contingency arrangements





Today – focus on customers





Promoting choice and value for all gas and electricity customers