Winter Consultation 2007/8 June Update

Peter Parsons

Ofgem Contingency Event 17th July 2007



Growing capability – Increasing uncertainty

Looking Back – Winter 2006/7

- New infrastructure
- Mild winter market not tested
- Low prices
- Low demand but recovery in power generation sector

Looking Forward – Winter 2007/8

- Further infrastructure investments
- European market interaction
- LNG a world market
- Do pipes mean gas?
- Will demand bounce back?
- Weather



2007/8 Demand Update

- 2006 price forecasts assumed some reduction in gap prices, notably wholesale
- Hence with some fall in gas prices, forecast demands are similar to those forecast in 2006 for 2007.
- No restricted demand forecat this year
- Gas is again the fuel of coice or base load power generation except for the vinter, hence limited opportunity for gas to provide (er and side response)
- Validation of domina methodology vs historical data provides con dence in approach used

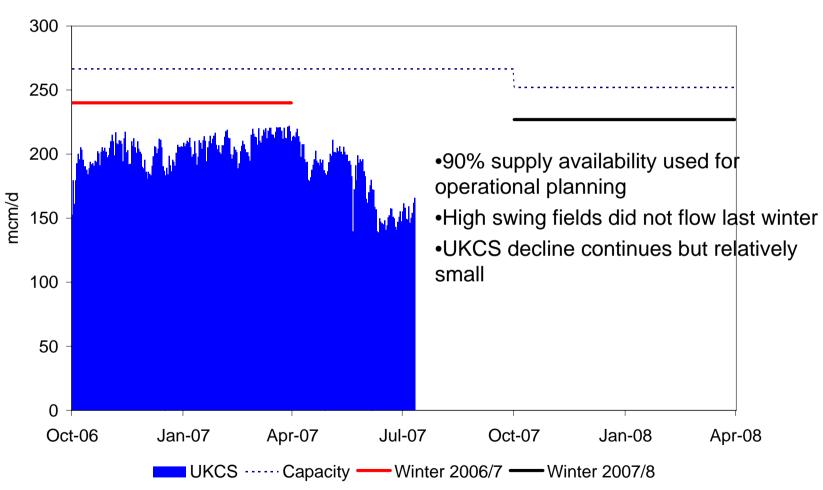


UKCS Forecast

Peak (mcm/d)	2006/7		2007/8	
	Forecast	Highest	Initial View	Ro sea
			(March)	Vie
Bacton	75	55	67	74
Barrow	24	25	22	22
Easington	16	15	15	13
Point of Ayr	2	4		2
St Fergus	94	95	39	89
Teesside	30	3.	28	26
Theddlethorpe	26	28	26	26
Total	267		249	252

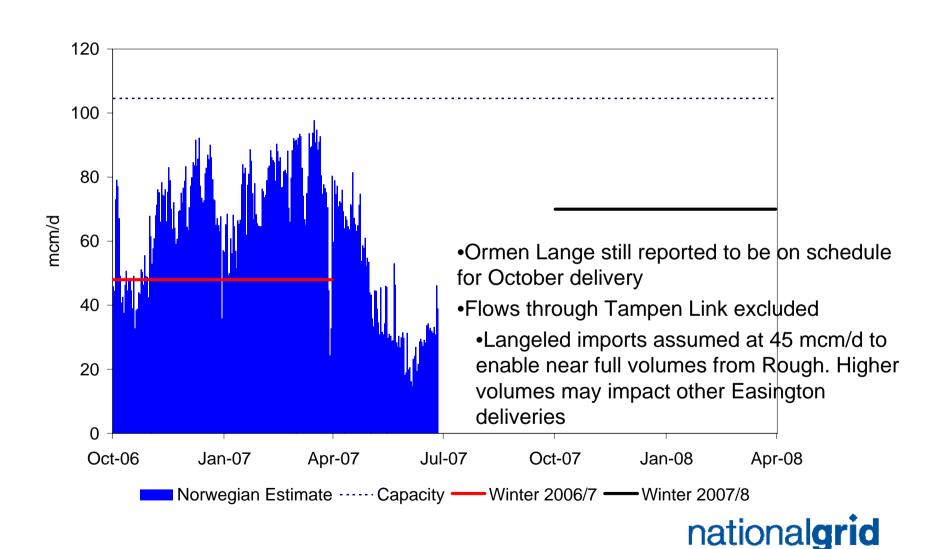


UKCS

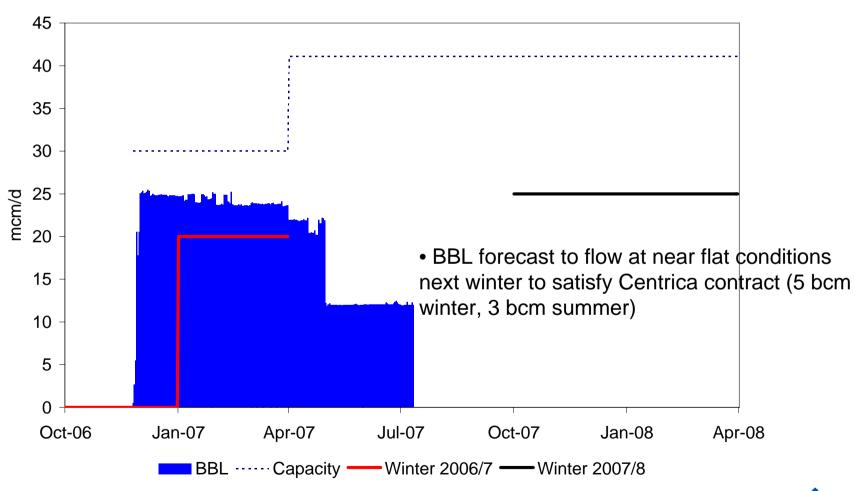


nationalgrid

Norwegian Imports

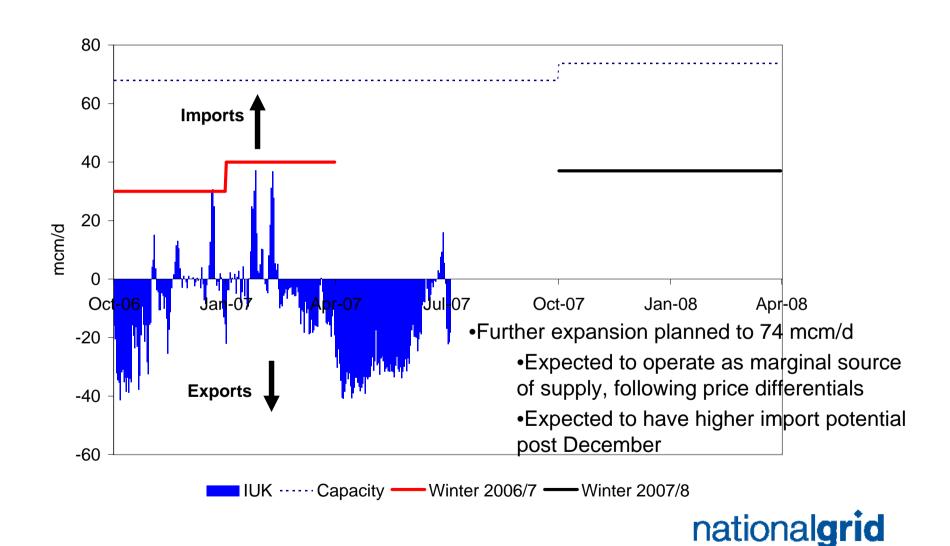


BBL Imports

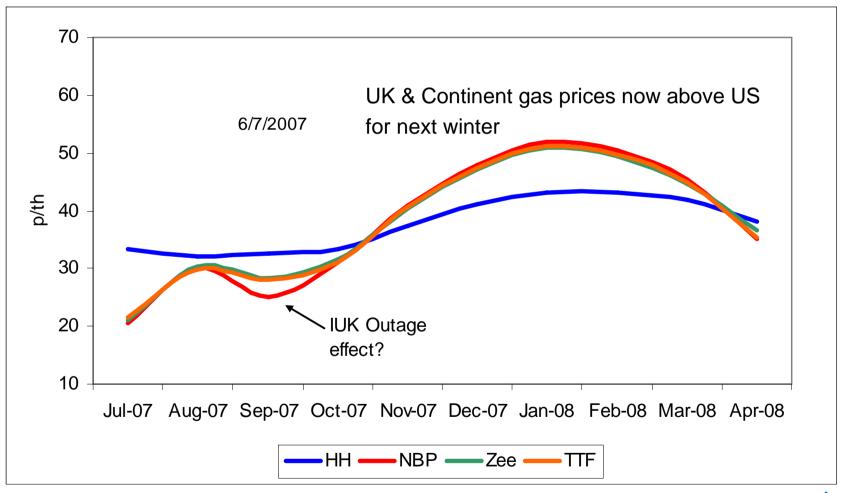




IUK Imports



LNG Imports





Non-Storage Supplies

	2006/7 Base Case	2007/8 Max Capacity	2007/8 Initial View	2007/8 Revised View
UKCS	240	252	224	227
Norway	48	104	70	70
IUK	36	74	37	37
BBL	14	41	25	25
LNG	13	69	46	33
Total	350	546	402	392

- •Whilst latest view for 2007/8 suggest much higher non-storage supplies than for last winter, considerable supply uncertainty exists:
- UKCS lower supply availability, no flow from high swing supplies
- •Norway Ormen Lange delayed, higher flows to Continent
- •IUK exports due to well supplied UK
- •BBL lower flows due to renegotiated contract with Centrica or virtual exports
- •LNG commissioning or NTS delays, diverted cargoes
- •Besides down side risk there is also upside possibilities for all sources
- •For assessment consider a +/- 30 mcm/d supply range nationalgrid

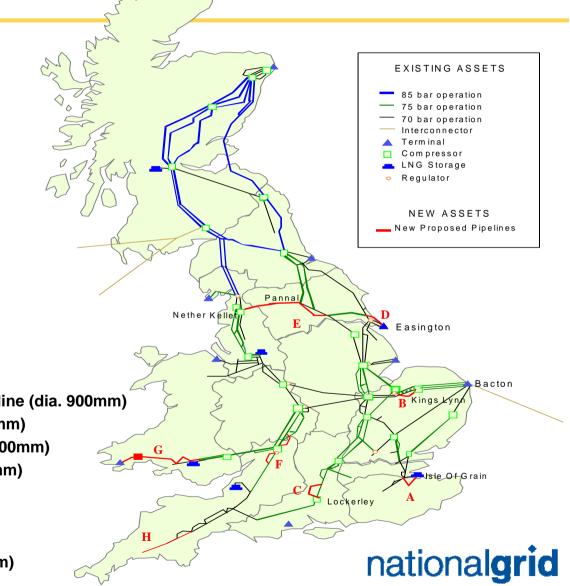
Storage

- For next winter we anticipate higher storage availability through:
 - Hole House Farm increased deliverability
 - Aldbrough new salt cavity storage, phased build-up of capacity expected



Transportation Issues

- Supply Pattern
- Trade & Transfer
- Easington
- Milford Haven



A Isle of Grain to Shorne to Gravesend pipeline (dia. 900mm)

B Kings Lynn to Wisbech pipeline (dia.1200mm)

C Barton Stacey to Lockerley pipeline (dia. 900mm)

D Easington to Ganstead pipeline (dia.1200mm)

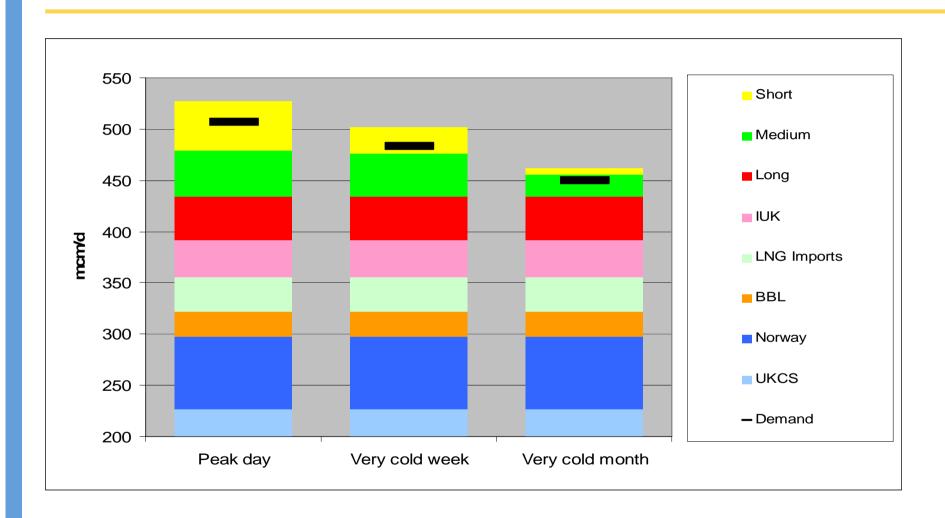
E Asselby to Pannal pipeline (dia.1200mm)

F Wormington to Sapperton (dia 900mm)

G Milford Haven to Tirley (dia 1200mm)

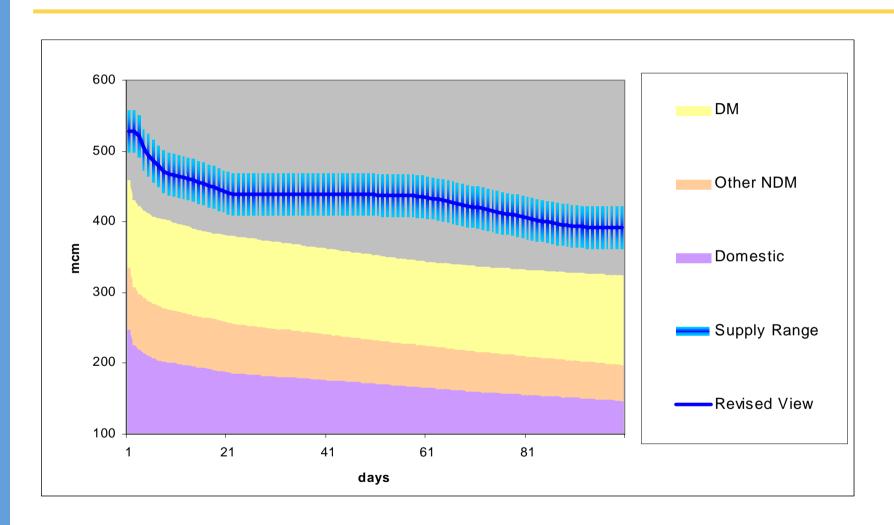
H South West Reinforcement Projects (600mm)

Balance - Peak Periods



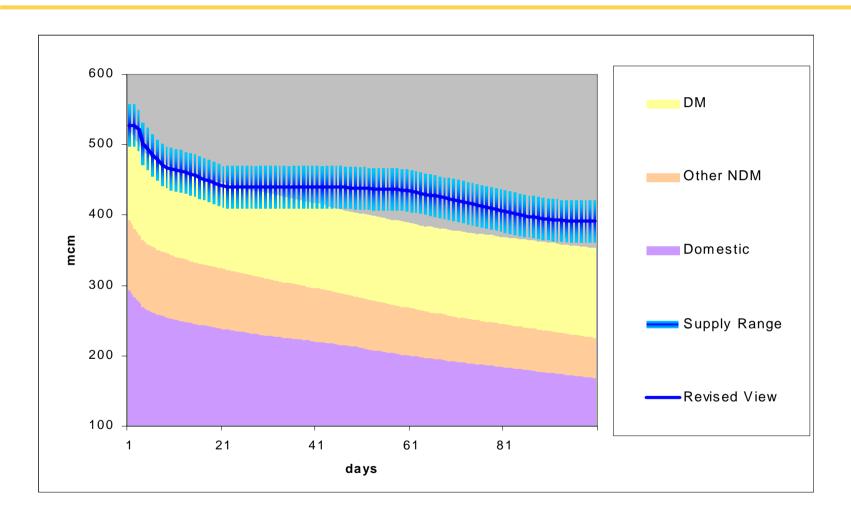


Demand-Supply Balance - average winter





Demand-Supply Balance - 1:50 winter





Demand Turndown Requirements

- Improved gas demand-supply balance has reduced the requirement for demand side response from what we assumed necessary last winter.
 - With increasing import dependency the swing in gas consumption by CCGT stations continues to be key in achieving gas supply/demand balance.
 - Little or no need for other large users to provide a demand response under most conditions.
 - There will be a need for other users to provide a significant response at times of both cold weather and a low gas supply scenario.

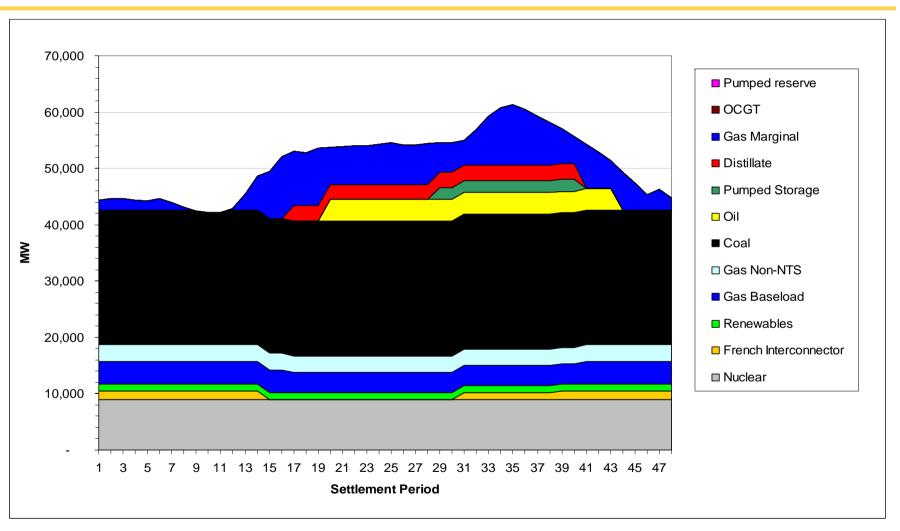


Initial Assumptions - electricity

- 0.7 GW new renewables in Scotland
- No new large stations in E&W
- Reduced output at Hinkley Point and Hunterston
- No demand growth forecast peak 60.8GW
- Plant margin 24%
- Assuming 30% wind, margin is 22%
- ◆ LCPD 1 January 2008 no material impact
- No short-term mothballed plant



Merit Order 07/08 – Electricity





Summary 2007/8

- Demand-Supply Balance Improved
- Uncertainties:
 - Weather
 - Will demand bounce back?
 - Further infrastructure investments
 - European market interaction electricity and gas
 - Do pipes mean gas?
 - LNG a world market
- Can't afford to be complacent
- Feedback by 3 August 2007

