## **Explanation of 2009 QSEC Reserve Prices**

Gas TCMF 3<sup>rd</sup> September 2009







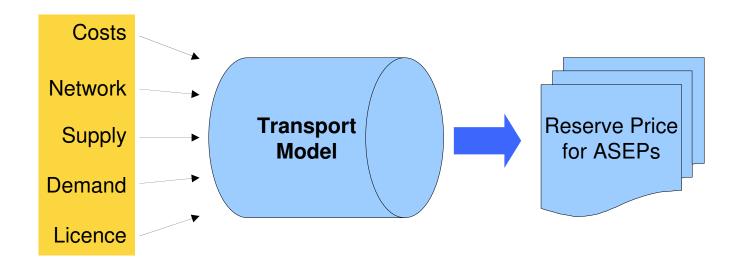




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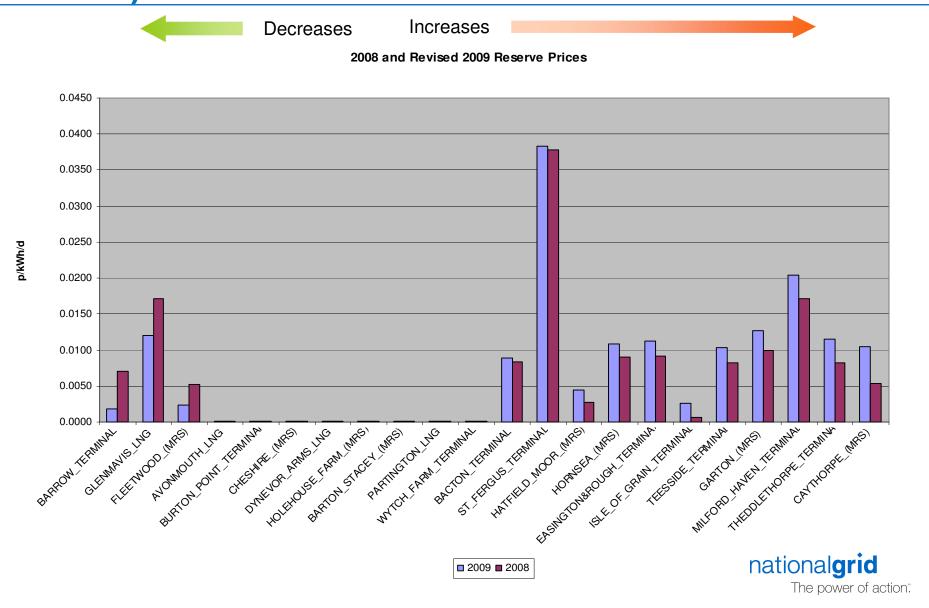
### **Entry Pricing Methodology**



- Changes to inputs drive changes in prices
  - Costs ~ Expansion Constant
  - Network ~ Additional Pipes
  - S&D ~ Supply & Demand levels, CV and balancing rules
  - Licence ~ Obligated Capacity Level



# Reserve prices for QSEC capacity (2008 → 2009)



### **Focus on Expansion Constant**

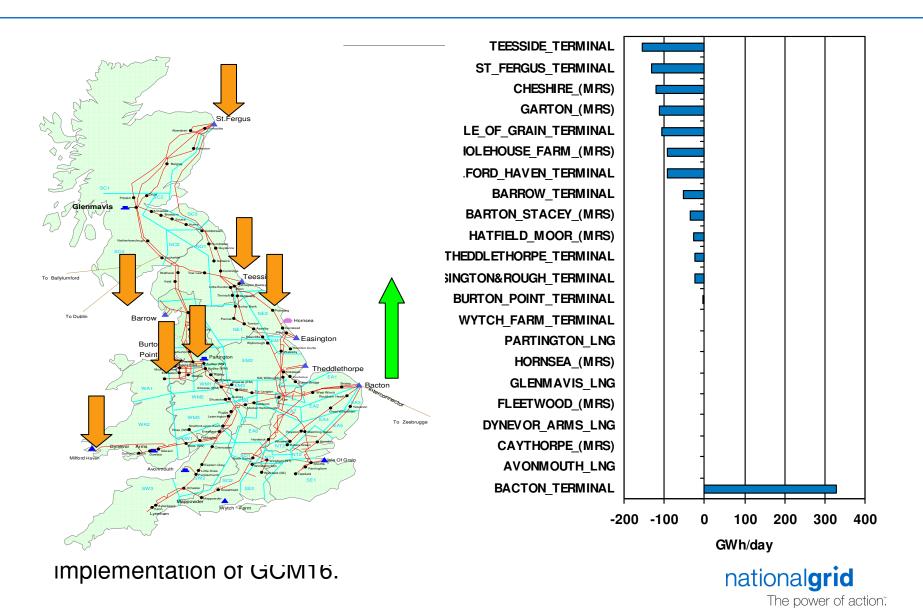
- Entry points that are furthest from the centres of demand most affected
  - The Expansion Constant represents the capital cost for an additional km of pipe
  - Updated annually according to change in Steel Price Indices (materials & labour)
  - Those Entry Points where there is the greatest impact are (largest first):
    - St. Fergus
    - Glenmavis
    - Milford Haven
  - An incremental GWh of supply will require a greater length of pipe to be installed to transport the gas to the demand centres. Therefore these entry prices are more sensitive to changes in the Expansion Constant

### **Focus on Supply & Demand**

- The change in supply and demand is the largest factor that influences prices
  - Forecast Demand has reduced significantly in 2011/12 due to the recession (about 6%)
  - Consequently supply has fallen but not uniformly
  - Supply balancing rules have changed following non-veto of GCM 16
    - supply altered in defined order based on entry type groups
    - all sites within a group are increased or decreased by the same amount
    - seeks to promote price stability and 'black-box' merit orders
  - Supply changes tends to be factor that influences charges the greatest

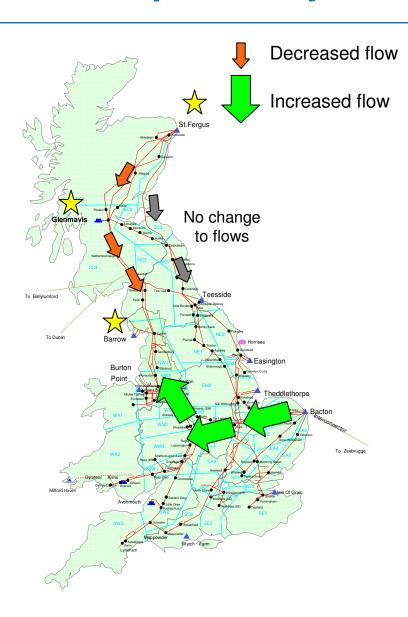
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### Supply changes in 2011/12 (c.f. 2010/11) (GWh)



### **ASEPs impacted by West Coast flows**





- West Cost flows reduced by
  - decreased supply in the North and West
  - increased supply in South-East
- As a consequence, the west coast marginal costs reduce and
- therefore, the prices decrease at these locations



### **Focus on Obligated Capacity**

- Caythorpe price has increased due to Obligated level increasing
  - The higher the Obligated level the more capacity is offered, which subsequently creates increased supply at the Entry point when calculating the obligated price

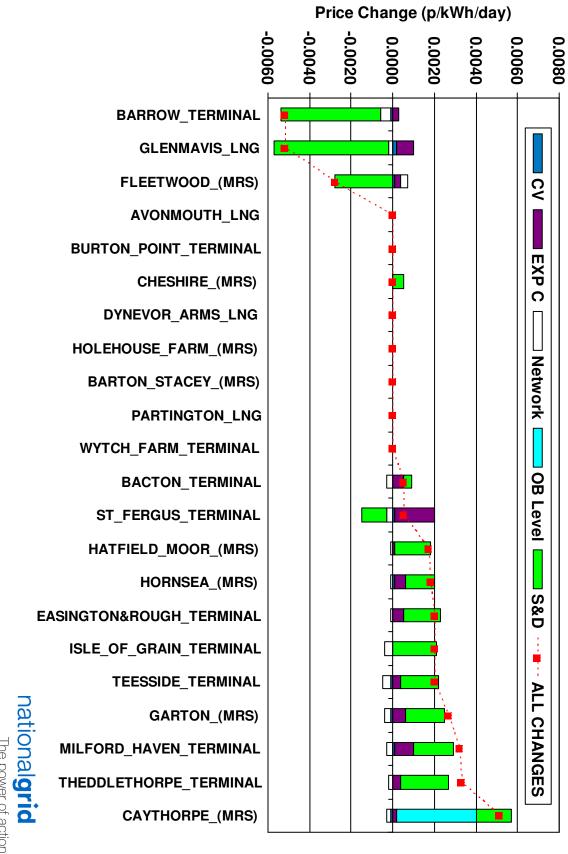
◆ 2008: 0 GWh

• 2009: 90 GWh

- No other changes
- Caythorpe was the only ASEP where incremental was purchased in the 2008 QSEC auction



# Changes from current prices (2008 → 2009)



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