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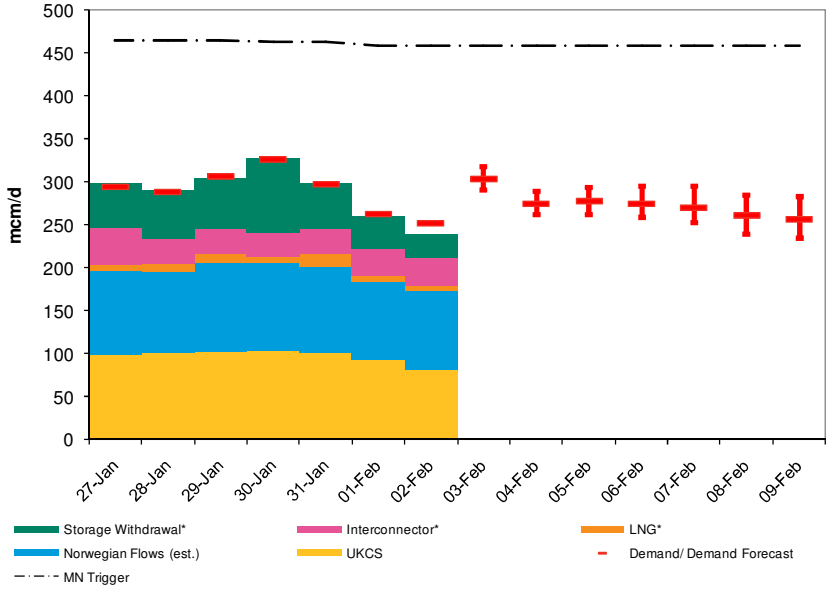
Gas Monthly Winter Update
January 2014

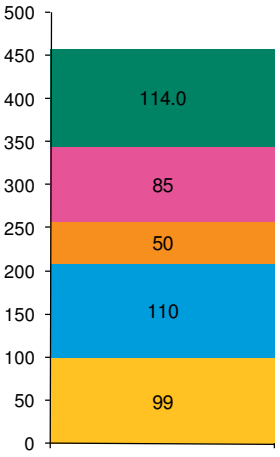
Gas Supply and Demand

Fig. 1



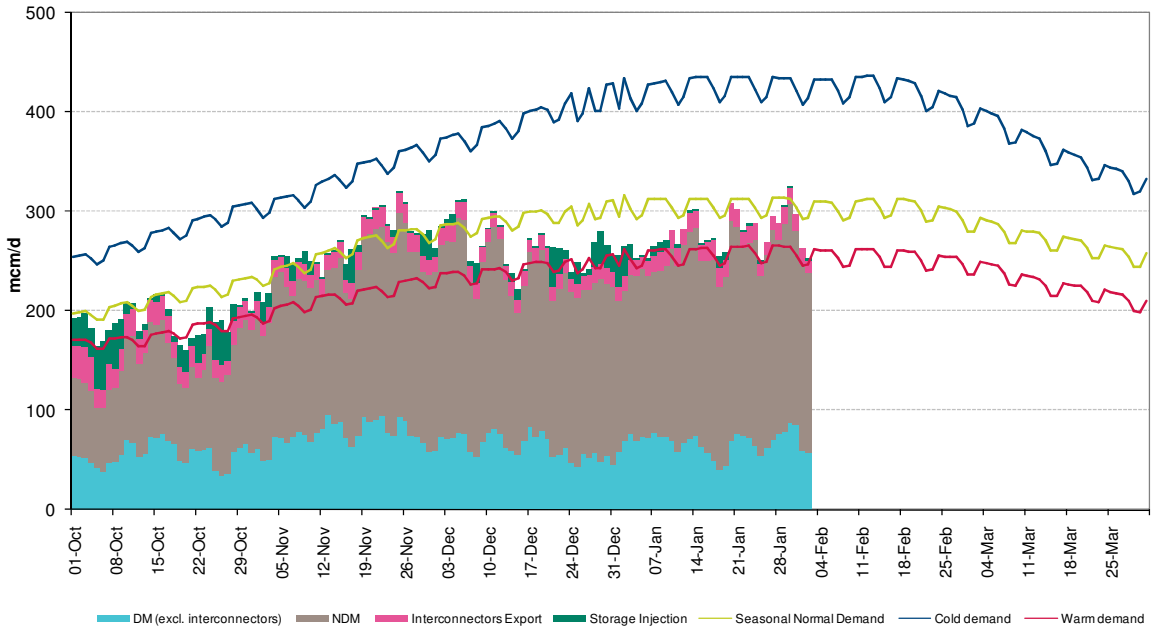
MN Components

Fig. 1a



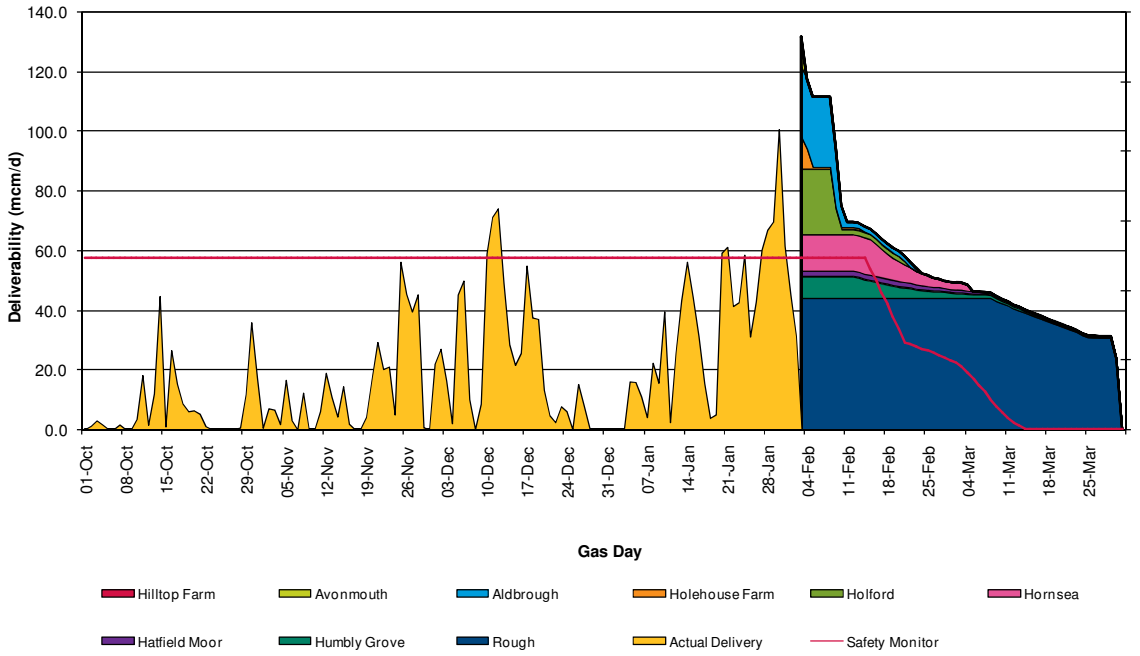
Gas Demands

Fig. 9

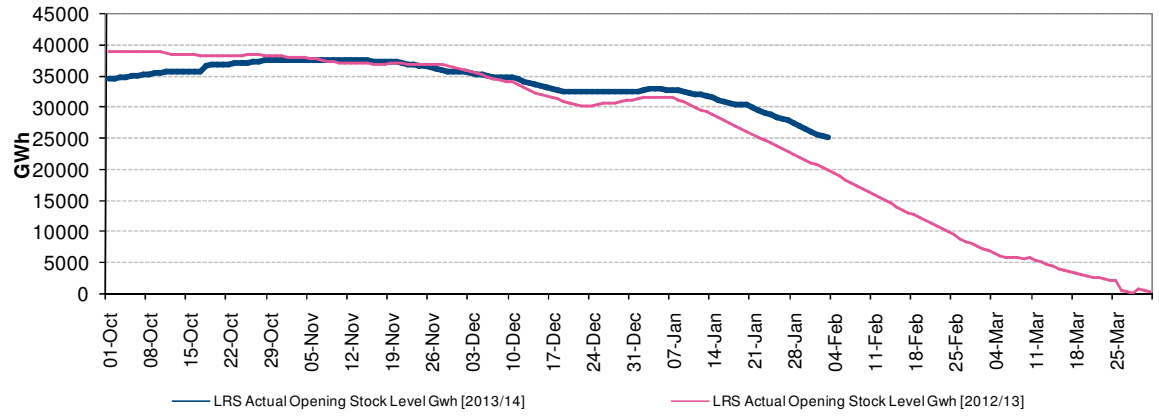


Storage Deliverability against Safety Monitor

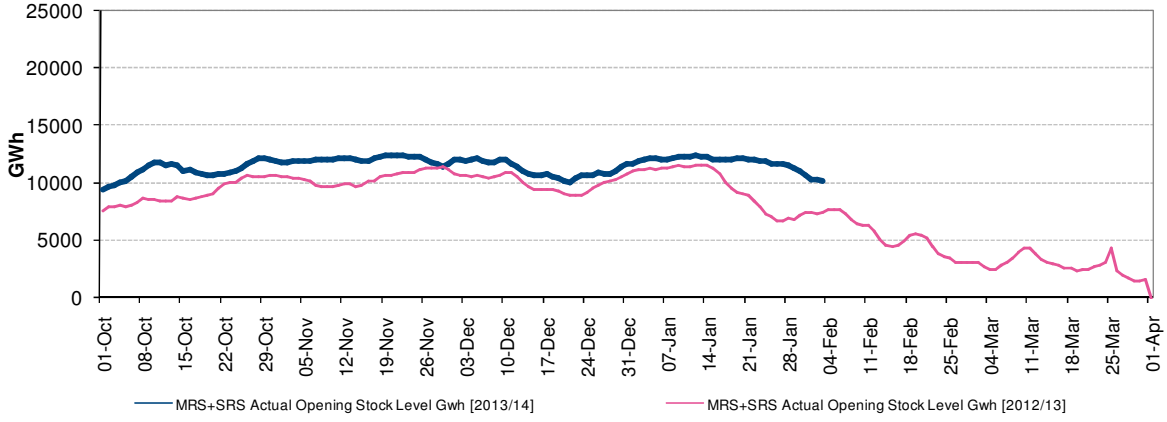
Storage Deliverability Against Safety Monitor **Fig. 4**



Long Range Storage - Actual Opening Stock Level **Fig. 5**



Medium/Short Range Storage - Actual Opening Stock Level **Fig. 6**



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Glossary

- **Gas Supply Build-up (Figs. 8 and 8a)**
  - All historic outturn data - from 1st October to present.
  - Gas Supply Build-up: shows UKCS, Norway (Langeled, Vesterled [estimate values based on best available data] and Tampen/Gjoa via FLAGS [estimate values based on best available data]), Interconnector supplies (IUK and BBL), LNG imports (IOG, Milford Haven and Teesport [estimate values based on best available data]) and withdrawal from storage (LRS, MRS and SRS). All in mcm/day. Exports to Europe and injections into storage are not shown.
  - Fig. 8a compares average flows this week to: Winter average flows (since 1st October), Winter Maximum flows (since 1st October), Winter outlook forecast (forecast for flows under high demand conditions) and Capacity (rated capacity of all supply sources).

- **Gas Demands (Actual, Normal and 1 in 20 weekly cold and Warm) (Fig. 9)**
  - Exports to Europe and storage injection are included in the Cold, Warm and Normal curves.
  - Daily seasonal normal demands are the demands that are forecast to occur in seasonal normal weather. The seasonal weather is derived from the Met Office climate forecasts for the Energy Phase 2 (EP2) project.
  - Cold and warm demand profiles are calculated from the demand models and cold and warm composite weather variables calculated from weather data from October 1928 to September 2010.
  - The cold/warm curves are 1 in 20 weekly values.
  - Actual demand is shown broken down into storage injection (LRS, MRS, SRS), Interconnector export (IUK), LDZ Non Daily Metered (LDZ NDM) (smaller Distribution Network demands including domestic, commercial and smaller industrial) and Daily Metered (DM) (mainly large industrials and power station demand).

- **Storage Deliverability Safety Monitor (Fig. 4, Table 2)**
  - Actual Delivery data reflects actual storage withdrawal volumes since 1st October.
  - Available Storage Deliverability calculations are based on the Max Use methodology. Max Use calculations are based on Max Withdrawal allowing for reductions as stock levels fall. This Available Storage Deliverability is displayed on the graph at site specific level.
  - Current day (D) storage supply is assumed to be the difference between forecast demand and NSS (if any). The red line shows the safety monitor deliverability requirement.
  - The available storage is not expected to be heavily used before December, hence available stocks as reported now will shift considerably to the right. The deliverability relates to a one off daily requirement rather than a sustained requirement.

- **Gas Storage Levels (Figs. 5 – 6)**
  - Medium-range/Short-range storage (MRS/SRS) facilities include Hornsea, Hole House Farm, Hatfield Moor, Humbly Grove, Aldbrough and Avonmouth.
  - The long-range storage (LRS) facility is Rough.
  - Storage stock levels refer to the quantities of gas held and represent shipper stock only (no OM stock).
  - Conversion used in figures is: 11.0 GWh = 1 mcm (using a standard CV of 39.6 MJ/m^3).