

Balancing group and capacity management for gas suppliers

The balancing and balancing rules model of the German Federal Network Agency, "GABi Gas", has had a lasting effect on gas transport organisation.

Balancing group managers and suppliers are faced with new challenges regarding daily processes, such as sales forecast, nomination and dispatching monitoring.

The three-step balancing model with daily balancing, structuring charge and control energy levy is an essential part of these balancing rules in the gas sector.

GAS-X BCM by Sopra Steria is an all-in-one solution for all balancing group management needs. Plan, manage and monitor capacities and balancing groups in just one product.

The GAS-X BCM solution helps suppliers and balancing group managers perform operative balancing group management and communication and check processes such as data clearing and shadow accounting.

Functions in balancing group management

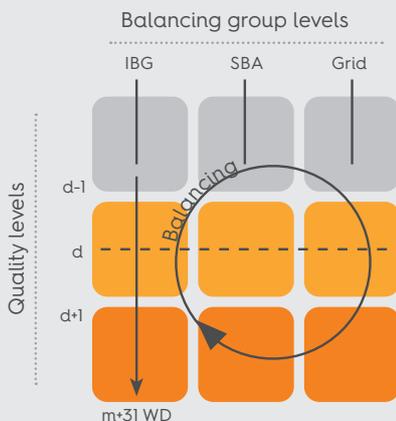
Balancing group management assists you in your daily communication, balancing and contracting processes. Receiving, processing and calculating allocation data, forecast values and consumption messages for determining balancing-group-specific sales portfolios (for the following day, week and month) are the main subjects in balancing group management.

With GAS-X BCM, you can check for data completeness and plausibility and process the received allocation data in the Dispatching Monitor. After successfully importing allocation messages, values of different qualities (projection, nomination, preliminary/final/corrected allocation and Best-of) are processed on different balancing group levels.

As a result, you can identify values to be substituted on an hourly basis and release plausible data for further processing. The essential data contained in plausibility-checked allocation messages are used for forecast in a further step. Allocation, forecast and received schedules make up the input for the nomination of the following day and intraday renomination.

To follow up on implausible or incomplete data, the module features a received messages and dispatching monitor that provides information on the status and content of the registered allocation data. Use various, completely configurable views based on the subject to be displayed. Integrate the processes of substitute value generation, forecast, clearing and sales determination into the overall process.

Functions in balancing group management



- Day-specific controlling and monitoring across all balancing group levels: Head balancing group, sub-balancing group, network-specific data
- Different quality levels: projected, preliminary, final (corrected)
- CM balancing: Import, matching, aggregation, balancing energy, commercial evaluation, structuring charge, control energy levy, VTP charge
- Processing steps are triggered by events (unaffected by d-1, d, d+1, m+31 WD)

- Projection, SLP (final), Nomination
- d: RLM (intraday), d+1: RLM (final)
- Final (corrected)

Data exchange with market partners:

Receiving and checking allocated gas quantities as well as reported balancing group status and transferred quantities from sub-balancing groups of the market area manager. Provision of validated quantities for processing or redistribution via sub-balancing accounts.

Support for change of supplier processes (GeLi):

Delivery points can be registered and deregistered with the grid operator. Supply relationships between traders can be terminated in a mass process. Monthly inventory lists can be checked against master data available in the system (gas only). Change notifications can be created and deregistration requests from grid operators can be processed.

Balancing group model:

Managing and mapping the balancing group architecture. Aggregation of reported balancing quantities as specified by the balancing group hierarchy. Review of declarations and processing of clearing cases.

Contract model:

Mapping of commercial contract objects for gas transmissions implementation.

Market area and network model:

Mapping of market areas necessary for the gas transmissions including the virtual trading points and commercial models of individual network operators.

Dispatching:

Support of the daily process of determining planned sales. Support of the entire nomination process for gas transports from the trader's perspective. Plausibility check of allocation data, substitute value generation and integration with forecasting systems to support the process.

Declaration process:

Import or determination of an expected declaration per sub-balancing account. Import of the declarations sent by the market area manager via TSIMSG and automated alignment with expectation and previous month data.

Dispatching monitor:

Intraday monitoring to ensure completeness and plausibility of all communicated data. Direct manual interaction for generating substitute values or confirming plausibility checks and integrating connection of projections and dispatching.

Interface handling management:

Service-oriented interfaces for internal/external nomination management, for receiving nomination data and data provision for projections.

Balancing and matching:

Aggregation and calculation of imbalances for calculating balancing energies, structuring fee and control energy levy for checking the plausibility of the data calculated by the market area manager.

Billing of surplus and shortfall quantities:

Implementation of a surplus and shortfall quantities billing check based on imported metering code data and quantities relevant for balancing.

Balancing group monitor:

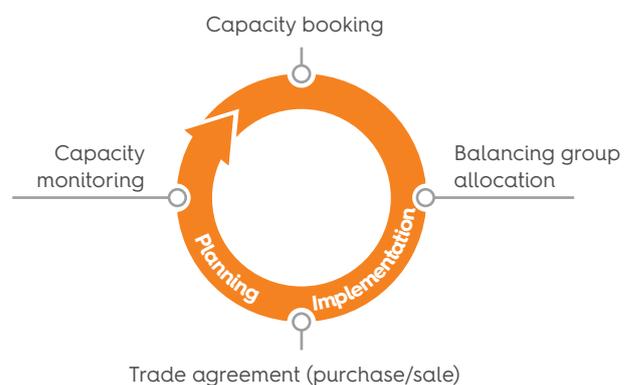
Monitoring of status, completeness and plausibility of balancing groups. Explicit assessment of sub-balancing groups and invoicing balancing groups.

Auditing:

Monetary assessment of the balancing group balance and forwarding to internal re-invoicing.

Quantity Provision (Downstream):

Providing validated and cleared quantities for billing supply contracts via sub-balancing accounts. Overview of supply contracts and clearance status as part of monitoring.



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