



Communicate
efficiently with
Elhub

Elhub

One common source for all metered data

As an energy producer today, you face a constantly growing amount of metered data. To handle this growing data amount, Statnett in Norway has developed a datahub, [Elhub](#), containing all metered data for electricity. The aim of this datahub is to enhance the distribution of meter values between grid owners, balance suppliers and end users.

Powel offers support for Elhub as an additional feature in the Powel Balance Settlement solution. This solution allows:

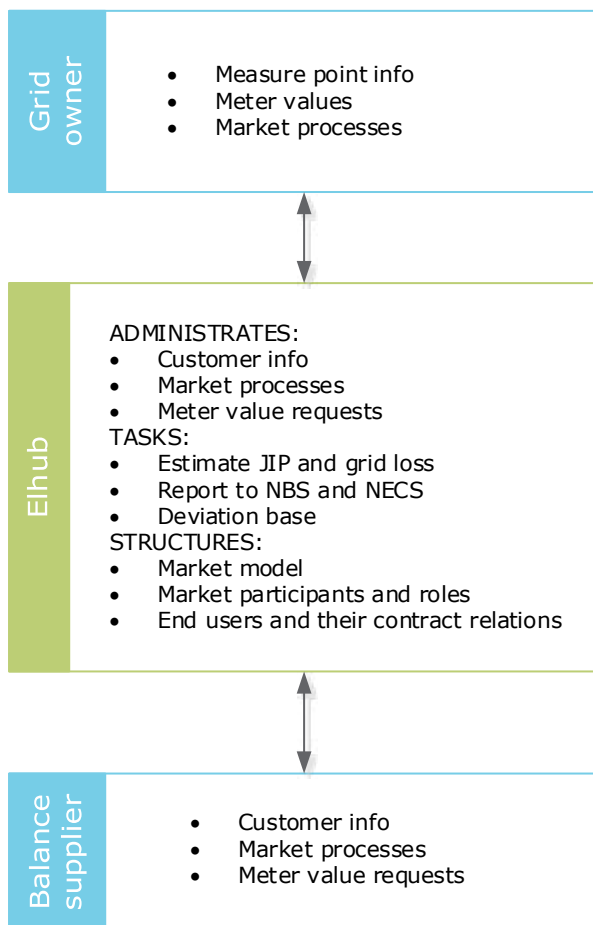
- The grid owner to send metering values to Elhub before 07:00 every day for the previous 24 hours, so that the TSO can perform a correct settlement
- The grid owner to receive requests about metering values
- The balance supplier and the grid owner to send and update structural data, e.g. information about meter points and customers

The solution provides a basic communication flow with Elhub.

About Elhub

The main consequence and goal of Elhub, is going from a many-to-many communication between market participants, to a one-to-many communication with Elhub as a central hub in the market.

Elhub mostly affects the grid owner role, but the balance responsible and the balance suppliers will also notice some changes with the introduction of Elhub. The grid owner is responsible for distributing all metered data via Elhub. Elhub aggregates all consumption and production data and sends it to the balance responsible party (BRP) and [eSett](#).



Features

Powel supports the automated communication with Elhub as follows:

- The system sends metered values automatically to Elhub. Elhub forwards this data to the necessary parties.
- If data is missing in Elhub, you are notified and can resend the required data.
- The system handles acknowledgements between you and Elhub.
- You receive metered values and acknowledgments from Elhub so you can perform the settlement.
- The system ensures that changes to your structure data are updated correctly. Structure data can be information about customers or installations like metering points.

The communication between Elhub and participants goes via XML messages. You find information about events and messages in Powel Event Log and Message Log.

Elhub introduces new variants of ebIX XML documents, which Powel supports. These are connected to the Powel Mesh structure.

Supported processes/messages

Elhub communication is divided into two main business areas with belonging BRS messages (Business Requirement Specification):

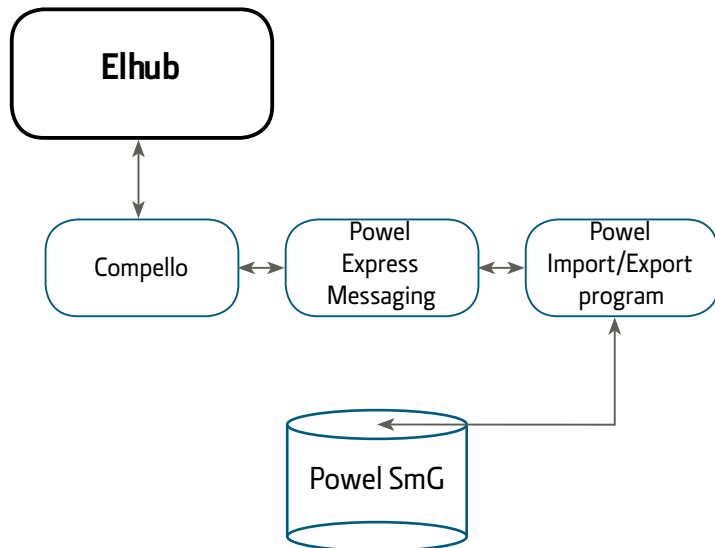
- **BRS Market processes** handles communication regarding market aspects for measure points. It is divided into three main business processes, startup, update and termination. For more details, see the Elhub document, [Elhub BRS Markedsprosesser](#).
- **BRS Meter values** handles communication regarding collection of metered values. For more details, see the Elhub document, [Elhub BRS Måleverdirapportering](#).

Powel Balance Settlement supports the following BRP messages (for more details, see the Elhub documents mentioned previously):

- BRS 301: Update structure data - balance supplier (process component 3 and 6)
- BRS 302: Receive structure data - grid owner measure point (process component 6 and 15)
- BRS 313: Send volume series for meter points (process component 7 and 16)
- BRS 314: Send reminder on volume series for meter points (process component 32)
- BRS 402: Correct structure data from grid owner (process component 6 and 15)

Communication with Elhub

To run Powel Balance Settlement with Elhub, you need Powel Express Messaging with Compello plugin. The communication process between the Powel system and Elhub looks as follows:



Further actions

Overview of required modules

You need the following modules from Powel:

- Powel Smart Generation suite
- Powel Express Messaging
- Powel Mesh

Powel Balance Settlement is not a requirement, but we recommend using this solution together with Elhub. Elhub is an additional feature to the settlement solution and uses the same structure, message flow and user interface.

Contact information

Please, address questions about Powel's Elhub solution to [Minxian Le](#).

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