

Data Enhancement Project

Demand Estimation Sub Committee
08/07/2019

nationalgrid



Operational Data Enhancements Project

Ambition: Customer focused, data centric approach, not just meeting our obligated data requirements.

(1) **Agile, industry enhancing IT solution, facilitating the changing needs of the industry both now and into the future.**

- Upgrade of the MIPI system, including a new platform

(2) **To deliver an industry data community platform to enable:**

- All industry players to feed into the change needed for transparency of gas operational data now and into the future so market needs can be anticipated for change.
- To enable a mechanism for NG to provide transparency to the market in an efficient manner on residual balancing decisions – e.g. ‘Day in brief.
- To provide better visualisation of operational data.
- To test concepts and gain feedback on requirements for new data both now and into the future.

<https://datacommunity.nationalgridgas.com/>

Operational Data Enhancements Project

What good looks like for 2019:

- The industry clarifies what data is required (NTS data/3rd party data/data gaps)
- National Grid understand who is using our data and why (the benefits across the industry).
- National Grid understand how the industry uses our data- API's, reports, webpage views etc.
- National Grid understand what data is not used and determine whether this is still relevant.
- Current and new operational data is made available on time and to agreed quality.
- Where availability of data is affected the industry are made aware of this.
- A solution is implemented such that when new data requirements are agreed these can be implemented efficiently (cost and time).
- Industry have developed the suite of operational data which will enable market players to become more efficient and hence pass on savings to end consumers

Industry Feedback

National Grid launched an industry consultation process in September 2018

- **Discussion Groups at the Gas Operational Forum**
- **Launching the Collaboration Website, posting new concepts and feedback questions**
- **1-1 Feedback from Industry participants**

NOTE: Feedback can be posted on the community website or if you would prefer a 1-1 please contact Karen Thompson and the Gas Operational Liaison team.

Summary of the feedback to date:

- **Data Procurement**
 - Large shippers use API's to download the National Grid Gas Data
 - Smaller shippers and occasional browsers use the Data Item Explorer
- **Reports**
 - Limited use
- **Data Visualization**
 - Improve Market understanding of the system status and its evolution.
 - Day in Brief commentary
- **Additional Data Requested**
 - Real time Demand Data
 - Post day hourly residual balancing data provided post day (D+1)
 - Data from external providers systems (UIG, SAP & SMP)
 - Gas Quality data
 - Localised Pressure data
- **Data Consistency**
 - Users value data consistency; Would value a final set of consistent supply and demand data
- **Data Quality**
 - Users value data quality; prefer Grid to use a blank to denote missing/erroneous data
- **Data Dictionary and User Guides**
 - Improvements to the data dictionary and a user guide

Next Steps - Additional Data – Current Grid View:

In Scope

- Instantaneous Aggregated NTS Demand
- Post Day Hourly National Grid Residual Balancing Trades

Notes

- Providing trial data on the Grid Website
- Currently propose adding this to the existing MIPI platform later this year

Out of Scope

- Within day publication of National Grid Residual Balancing Trades.
- Target Linepack

Under Consideration

- Localised Pressure and Gas Quality data
- Third Party Data: Additional LDZ Data
- Other aggregations of real time demand data

Still in the discovery phase

- Value and Application vs Cost
- Level; Format; Frequency; Real Time or Post Day publication.

Additional LDZ Data (Post Day Data)

Already hosted on MIPI

- LDZ Demand (D+1;D+6)
- LDZ Offtake Point Demand (D+1)
- DM and NDM demand (D+1;D+6)

Potential New Data

- LDZ Daily UIG Flows (D+1; D+6)
- LDZ Daily Shrinkage (D+1; D+6)
- LDZ Daily Direct Supply (D+1)
- LDZ Daily Linepack (D+1; D+6)
- LDZ Hourly Linepack (D+1; D+6)
- LDZ Daily Storage Stock Level (D+1)

- Looking for your feedback?
- Level of Interest (Why do you need this new data)
- National Grid would need to work with the LDZ's and/or Xoserve to host some of this data on MIPI

Next Steps – Other Developments – Current Grid View

- **Data Hosting**
 - The MIPI system will be put on a new platform able to support the anticipated growth in the demand for data to support the changing needs of the industry.
- **Data Procurement**
 - Simplify Data Item Explorer (Used by smaller suppliers and occasional data users)
 - Minimise impact on existing API process.
- **Reports**
 - Reduce the number of Reports pointing users to the underlying data
- **Data Visualization**
 - New Data Visualisations: Testing proposals on the Community website.
 - Day in Brief; concept will continue to evolve on the community website.
- **Data Consistency**
 - Feasibility of publishing a final set of consistent post day demand and supply data.
- **Data Dictionary and User Guides**
 - Improvements to the data dictionary and a user guide to support a new data centric approach.

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