

UNCC - October 2019 UNC Data Dictionary Approval

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Context: Energy Data Taskforce Recommendations

The Energy Data Taskforce, commissioned by Government, Ofgem, and Innovate UK, has set out five key recommendations that will modernise the UK energy system and drive it towards a Net Zero carbon future within their report '*A Strategy for a Modern Digitalised Energy System*':

1. Digitalisation of the Energy System
2. Maximising the Value of Data
3. Visibility of Data
4. Coordination of Asset
5. Visibility of Infrastructure and Assets

“Data will play a crucial role in enabling competition and innovation to drive down prices for customers and provide them with new products and services. This is why Ofgem fully supports the Taskforce’s five recommendations to improve data use. We will be working with BEIS, consumer groups and the industry to ensure better use of data unlocks a brighter future for energy consumers.”

Martin Cave, Ofgem chairman

There is an increasing need for more visible and relevant data for all industry participants to be able to utilise. National Grid are committed to providing more data and working with the industry to ensure all the data is relevant and fit for purpose.

NG Data Provisioning

National Grid have been running an 'Operational Data Enhancements Project' with the ambition of providing a customer focused, data centric approach, which will provide meaningful data beyond obligated data requirements.

In October 2006, UNC modification 006 '*3rd Party Proposal: Publication of Near Real Time Data at UK sub-terminals*' implemented the publication of Real Time Supply Data. Following customer feedback, National Grid has now been sharing Real Time Demand Data on a trial basis. The industry have valued this information and requested this on an ongoing basis. However, the provision of this data requires governance.

Hence, the request of **UNCC is to approve the addition of the Real Time Demand Data into the UNC Data Dictionary** to ensure the data is appropriately governed.

Industry Engagement

Governance arrangements for the provision of the Real Time Demand Data have recently been discussed via:

- The Industry Data Community Website – a website whereby National Grid obtains feedback from a wide group of stakeholders (<https://datacommunity.nationalgridgas.com/>)
 - There are currently over 110 organisations signed up and over 250 participants
- Gas Operational Forum
- Transmission Workgroup

All the forums are comfortable with the inclusion of Real Time Demand Data within the UNC Data Dictionary.

It is proposed throughout the ongoing phases of the project the industry will be engaged with all decisions e.g. the inclusion or removal of any data items.

Real Time Demand Data Items

Data Item	Unit of Measurement	Publication Frequency (Daily, Weekly, Monthly, Real Time)	Publication For (Hourly, D, D+1,D+2,M+15 etc OR ADHOC)	Approx Scheduled Publication Time	Relates to Network (NTS,LDZ or Both)	Data Source
NTS Demand Flow	mcm/day	Daily	D	Every 12 minutes at 2 minute intervals	NTS	Metered Flows
Industrial Demand Flow	mcm/day	Daily	D	Every 12 minutes at 2 minute intervals	NTS	Metered Flows
Interconnector Export Demand Flow	mcm/day	Daily	D	Every 12 minutes at 2 minute intervals	NTS	Metered Flows
LDZ Offtake Flow	mcm/day	Daily	D	Every 12 minutes at 2 minute intervals	NTS	Metered Flows
Power Station Demand Flow	mcm/day	Daily	D	Every 12 minutes at 2 minute intervals	NTS	Metered Flows
Storage Demand Flow	mcm/day	Daily	D	Every 12 minutes at 2 minute intervals	NTS	Metered Flows

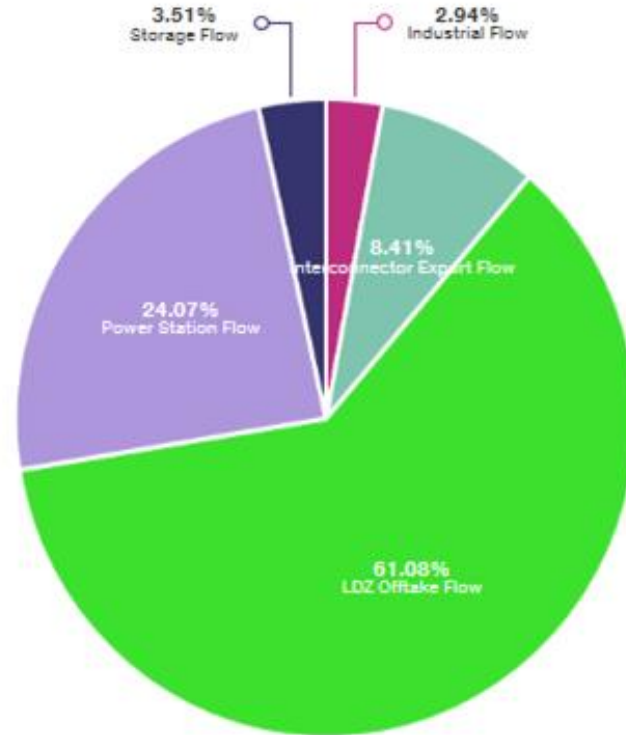
Example of Data

Instantaneous Demand Flow

We are now trialling a live Instantaneous Demand solution, updated at the same intervals as supply data.

The pie chart displays demand broken down into the following 5 categories and will be updated every 12 minutes, with 2 minute intervals:

- Industrial Flow
- Interconnector Export Flow
- LDZ Offtake Flow
- Power Station Flow
- Storage Flow



Total of all category demand flow will not match with NTS Demand Flow, as the NTS Demand Flow includes NTS Shrinkage components.

Updates to the UNC Data Dictionary - Governance

As per TPD-V section 12:

12.1 Purpose

The purpose of this Section is to establish generic governance arrangements in respect of the following UNC Related Documents (each a “Document” and collectively the “Documents”):

(a) Network Code Operations Reporting Manual as referenced in Section V9.4;...

12.3 Modifications

Should a User or Transporter wish to propose modifications to any of the Documents, such proposed modifications shall be submitted to the Uniform Network Code Committee and considered by the Uniform Network Committee or any relevant subcommittee where the Uniform Network Committee so decide by majority vote.

Ask of UNCC

- The UNC Data Dictionary version 13 has been updated to include the GRMS Real Time NTS Demand and Aggregated Real Time Demand by Category Data
- As the UNC Data Dictionary is subordinate to the UNC Operations Reporting Manual, the Manual has also been updated and changes reflected in version 13

UNCC is asked to approve these changes to ensure the appropriate governance of Real Time Demand Data

Future Phases

Changes as part of the Data Provisioning Project in the future may include:

- A UNC modification to remove UNC obligated data and govern all data via the UNC Data Dictionary and TPD V12.3 (excluding European mandated data) for example Real Time Supply Data
- UNC Data Dictionary enhancements to show data mandated as part of EU legislation, ensure all data available via data explorer is captured, additional data items added

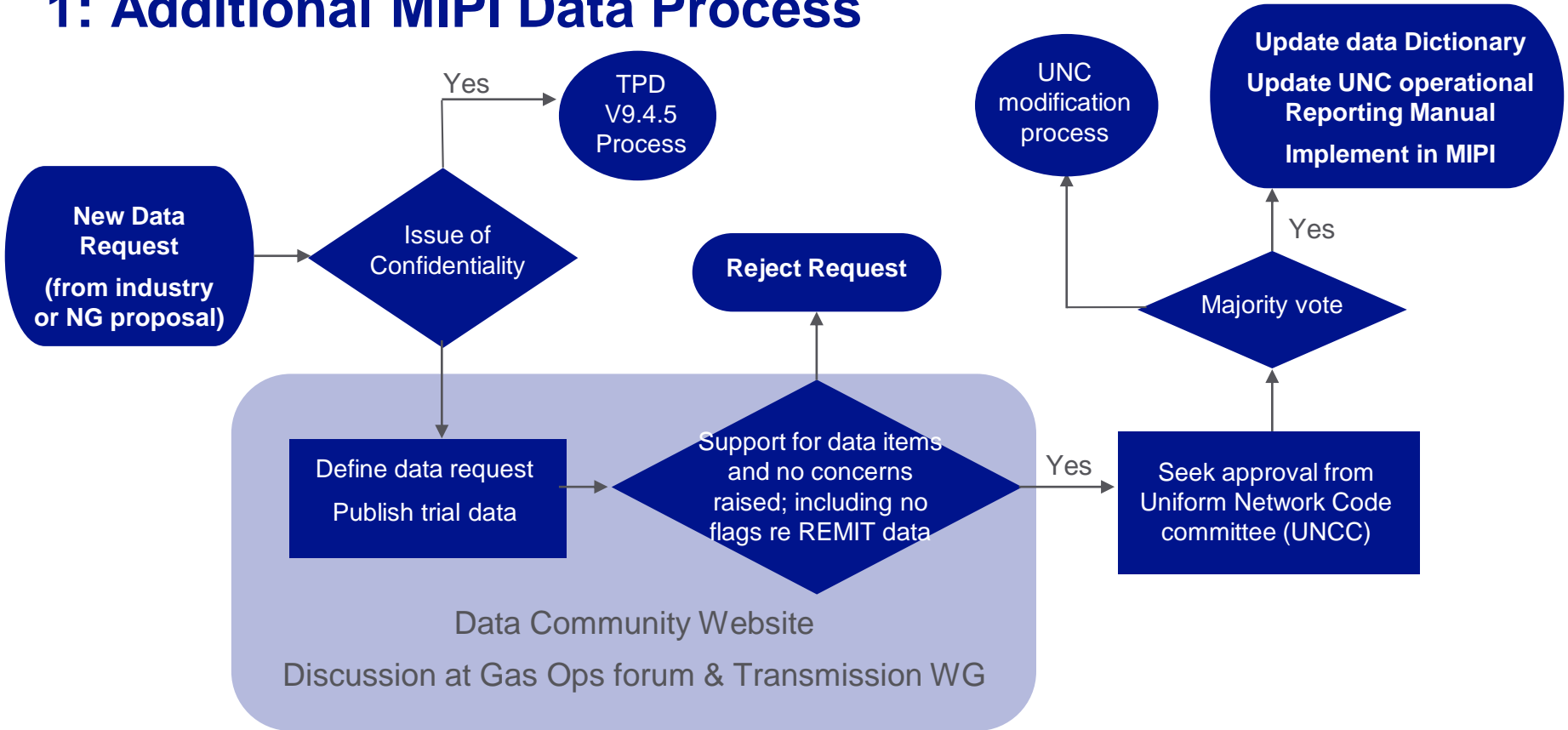
UNCC will be kept abreast of all changes and any approvals required

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Appendices:

1. **Additional MIPI Data Process**
2. **UNC TPD - Section V**
3. **TPD V9.4.5 Process**
4. **Data Governance through UNC Data Dictionary**

1: Additional MIPI Data Process

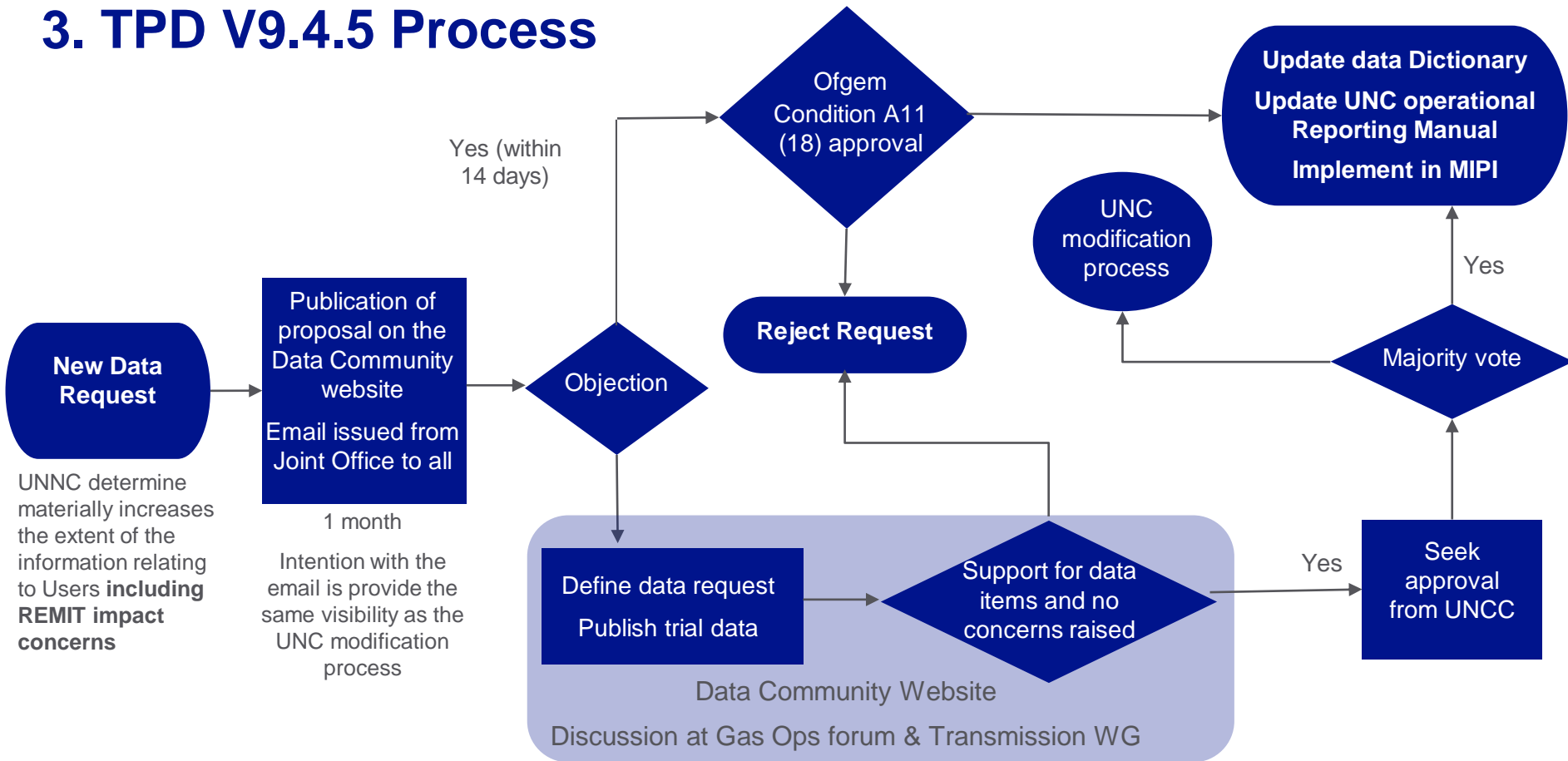


2. UNC TPD - Section V

9.4.5 If National Grid NTS proposes to revise the Uniform Network Code Operations Reporting Manual, it shall obtain prior approval by Panel Majority of the Uniform Network Code Committee, and if such revision materially increases the extent of the information relating to Users to be published pursuant thereto:

- (a) National Grid NTS will notify Users of its proposal not less than one month before implementing such proposal;
- (b) any User may, within 14 Days after National Grid NTS's notification under paragraph (a), notify National Grid NTS that the User objects to such revision, providing reasonable details of the grounds for the User's objection;
- (c) if a User so notifies an objection to National Grid NTS, National Grid NTS will not implement the revision unless the Authority shall (upon National Grid NTS's application) give Condition A11(18) Approval to its doing so.

3. TPD V9.4.5 Process



4. Data Governance through UNC Data Dictionary

Engagement	<p>It is proposed to engage as wide as possible via:</p> <ul style="list-style-type: none">• The data community website which currently has over 250 participants• The Gas Ops forum• Transmission Workgroup• Distribution Workgroup (where a change would impact on LDZ data)• Change Management Committee (where a change would impact on UK Link or Gemini data) <p>} Same discussion forums as UNC modification proposals</p>
The Data Community Website	<p>Allows National Grid to:</p> <ul style="list-style-type: none">• Obtain feedback from a wide group of stakeholders including smaller market participants who may lack resources to attend Regulatory meetings.• Allows Grid to obtain a body of evidence (level of interest/benefit to the market) for proposed new data to justify the cost of data provision.• Provides Grid with the ability to trial data proposals and develop the maturity of the final proposal prior to seeking regulatory approval.
UNC Data Dictionary process	<p>Benefits for the process</p> <ul style="list-style-type: none">• It is a robust process in place with lots of engagement and the opportunity to veto a change at various stages or to defer to a UNC modification• Could see a change within a few months instead of a lengthy UNC modification development process.• A uniform process will be introduced for all data changes rather than the mix and match or regulated/non-regulated data in the current regime