

Digital Strategy, Optimised System Operation and Information Provision

We will start at 11.02 to allow participants to finish previous meetings and join the call

Slido.com
#gtx3

Welcome and Opening

Thank you for joining us today

Slido.com will be used for feedback and for Q&A.

Slido.com
#gtx3



Who will be speaking?

Harj Kandola
Data Insights
Manager



Gabriel Griffin-Booth
Data Science
Manager



Martin Cahill
Operational Liaison
Manager



Nera Lenden
Stakeholder
experience lead



Logistics



Should last for approximately about 60 min



Questions and polling via slido.com #gtx3



All callers will be placed on mute



We will circulate the slides and a recording of this webinar

Agenda

1. Digitalisation Strategy

2. Optimised System Operation

3. New Information Provision

Digitalisation Strategy

Harj Kandola
Data Insights Manager

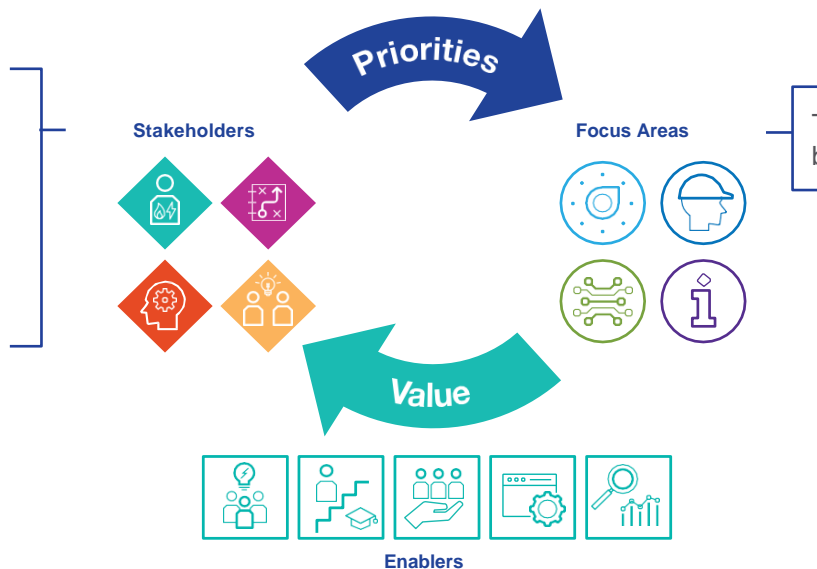


Our Digitalisation Strategy

Delivering our digitalisation strategy will help us to realise our ambition to be at the heart of a clean, fair and affordable energy future for everyone.

The success of our strategy will be based on **delivering value for our stakeholders**.

We have categorised stakeholders according to needs. This is detailed in the Stakeholder Personas section.



To help manage delivery, our strategy has been broken down into **focus areas**.

Innovation strategy

Running parallel to our digitalisation strategy is an innovation strategy which focuses on considering the future technologies that could be used to help us meet our objectives.

We work collaboratively to ensure our innovation activities support delivery of our digitalisation strategy

To deliver value to stakeholders we continue to **develop the capability** that will enable our digital transformation.

We have **5 key areas of enablement** that underpin the delivery of our strategy.

Quick poll | slido.com #gtx3

Does this articulation of the digital strategy work for you?

Yes

Somewhat

No

Please explain your answer

Digitalisation Strategy Journey

October 2018

Energy Data Task Force (EDTF) established to provide Government, Ofgem and Industry with a set of recommendations on:

“How data can assist with unlocking the opportunities provided by a modern, decarbonised and decentralised Energy System at the best value”

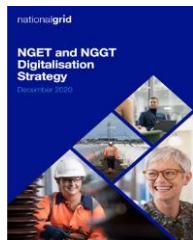


June 2019

EDTF published their report:

“A strategy for a Modern Digitalised Energy System”

The report strongly advocated further digitalisation and made recommendations for focus areas.



December 2020

We published our Digitalisation Strategy (Joint strategy with National Grid Electricity Transmission (NGET))

October – November 2020

We engaged on our draft Digitalisation Strategy asking for feedback via webinars, workshops and our Independent User group.

Reached out directly to some groups with particular interest in topics such as our data platform (MIPI) rebuild.

2021

Over the course of 2021 we engaged with energy networks and organisations from other industries to share knowledge on:

- Technology
- Skills
- Culture

We produced materials and held events to support stakeholders use of data, such as the Data Webinar – Your data, today and tomorrow

June 2021

We published our updated Digitalisation Strategy Action Plan (DSAP) setting out how we plan to deliver the Digitalisation Strategy



November 2021

Ofgem published:

- Data Best Practice Guidance
- Data Best Practice Principles

January 2022

EDTF published a new report with further recommendations. We are reviewing this report to understand the implications

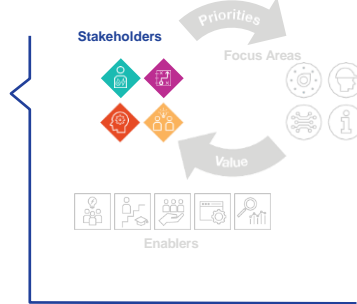
March 2022

We shared our updated Digitalisation Strategy



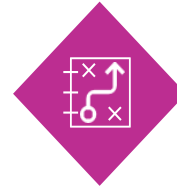
Stakeholder personas

In order to ensure we fully consider the needs of the subset of our stakeholders that are active users of our data we have developed a number of data user personas.



New Data Sets Published

Energy Industry Participants are groups that work in the energy industry. This group will include other network companies and immediate users of our assets and systems.



Engaging local Universities

Enquiring Minds are interested in our assets and networks but may have unique needs for accessing our data. This could include members of the public, academia and wider energy innovators



Supply Demand Profiles

Network and Asset Decision Makers are often part of NGGT or companies that work closely with us (e.g. distribution companies, system operators and our contractors). They are responsible for making decisions about assets, work on those assets and the operation of the network.

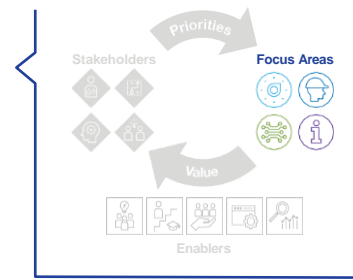


Positive feedback from IUG

Policy Influencers will tend to work in organisations such as regulators and other government departments interested in energy. They may also include other influential organisations such as consumer groups.

Our focus areas

We have broken our Digitalisation Strategy down into 4 focus areas. Our organisational structure is aligned to these focus areas, allowing us to maximise the efficiency with which we deliver the components of the strategy.



Optimised System Operator

We will utilise smart tooling to help us understand the drivers and behaviours of our customers and the impact of our actions and decisions



Operations Enablement System

Our Plant Operations field force will be empowered to make the right decisions and have everything they need on their mobiles devices



Data Driven Asset Management

We will collate more data on our assets than ever before and use this to understand risk and make informed decisions



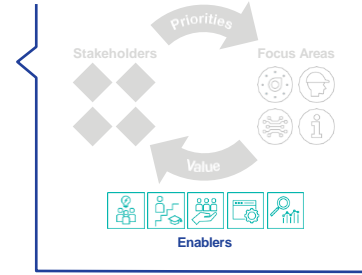
Market & Customer Insights

We will have a clear processes and provide greater understandings of our interaction with customers and their needs

Enabling our digital transformation

To deliver against stakeholder priorities and achieve our aim of leading a clean energy future for everyone, we know that we will need to continue to develop the capability that will enable our digital transformation and support the delivery of work in each of our focus areas.

We have identified 5 key areas of enablement which will underpin the delivery of our strategy



Collaboration



Skills & Culture



Ways of Working

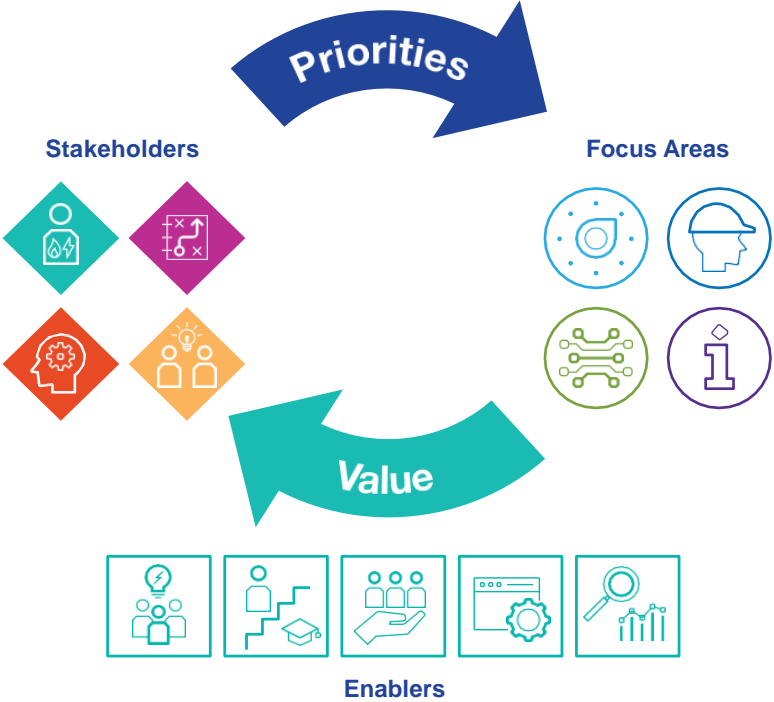


Data Platform &
Management



Advanced
Analytics & AI

Our Digitalisation Strategy



Poll Result

Does this articulation of the digital strategy work for you?

Yes

Somewhat

No

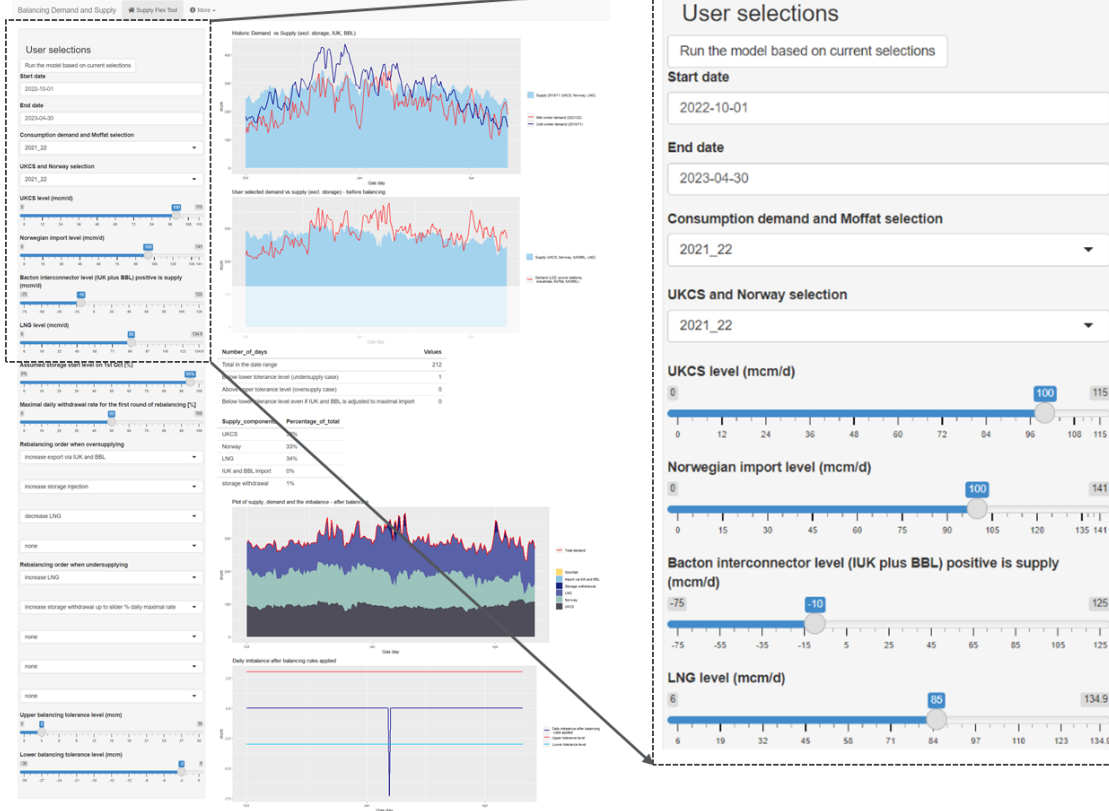
Please explain your answer

Optimised System Operation

Gabriel Griffin-Booth
Data Science Manager



Supporting Optimised System Operations



A prototype of the webapp – demonstration purposes only

Gas Transmission

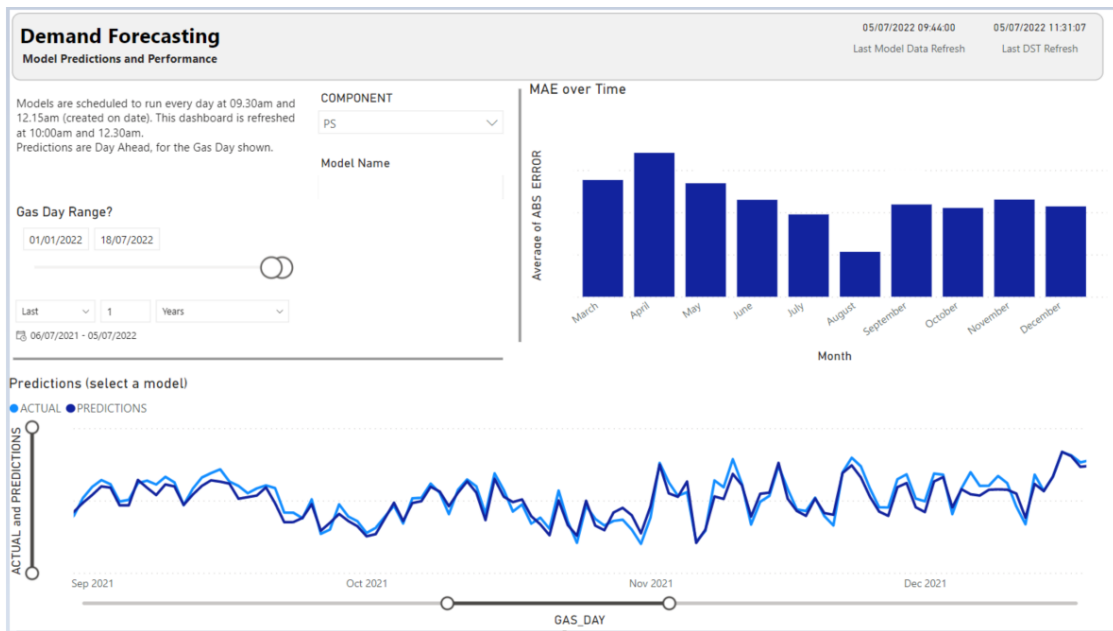
Transparency in system operations

Publishing our interactive webapp that simulates winter supply and demand

To align with the **Winter Outlook**, we intend to publish the internal webapp used to simulate balancing approaches under user definable supply and demand scenarios

We intend to provide external access to the tool to enable stakeholders to explore scenarios

Supporting Optimised System Operations



An dashboard of demand forecast vs actual – demonstration purposes only

GitHub

ena
energy networks
association

Gas Transmission

Transparency in forecasting

Publishing our demand forecasting model code under open-source licencing

We have been engaging with academia & industry on an ad-hoc basis – we want to formalise this

Creating a **Data Science Collaboration Forum** via the ENA to enable industry participants and academia the opportunity to discuss and share via a communal code repository

New Information Provision

Martin Cahill

Operational Liaison Manager



New Information Provision

- Improving the way gas operational data is used within the industry to enable the future energy landscape.
- We are focussed on delivering an enhanced user experience that will allow users to access operational data easily.

What we've heard so far:

Modernise UI design to provide an easy-to-navigate portal for all Gas Transmission Data

Simplify the API and Data Item Explorer and provide better integration with Excel

Provide additional customizations for the Prevailing View and Report Explorer and improved consistency in its presentation

Improve search facility and provide updated and comprehensive user guides

Make improvements to data quality, currency and download size

Quick poll | slido.com #gtx3

How would you like to engage?

Webinar

Survey

1-2-1

Other...please specify

What is your area of interest?

Optimised System
Operator

Operations
Enablement System

Data Driven Asset
Management

Data Market &
Customer Insights

Other...please specify

Please add your contact details

Questions



What next?



You will receive the recording and material from today's session



If you have any further questions or would like to discuss anything specific please get in touch with nera.lenden@nationalgrid.com



Feedback is important to us, therefore if you have not already taken part, we would like to put you forward for a survey

Keynote speech

[Watch again](#)

Operating the network

[Watch again](#)

**Future regulatory
framework**

Tuesday 12th July

[Register here](#)

Future of energy

Thursday 14th July

[Register here](#)

Thank you for joining us





Gas

Transmission