

Our Digitalisation Action Plan

Stakeholder update June 2025

Cadent

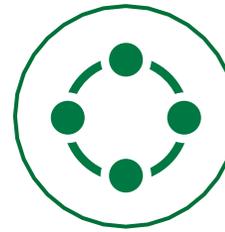
Your Gas Network

Welcome to our Digitalisation Action Plan June 2025

Our Digitalisation Action Plan reflects the progress we have made in our digitalisation journey throughout the first half of 2025.

- This document provides details on steps we are taking towards fulfilling our RIIO-2 commitments in the digitalisation space, and actions which support our proposed RIIO-3 investments.
- Actions have been classified according to the Digitalisation Themes defined in our December 2024 [Digitalisation Strategy](#).
- We welcome this opportunity to provide transparency and increase the visibility of our work to stakeholders.

Our Digitalisation Themes:



Interoperability



Data & Digital Literacy



Open Data

Index of initiatives



Complete



Dependency identified and mitigated



On Track – No identified risks



Cancelled/on hold – significant dependency

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Our digitalisation projects will benefit our internal and external stakeholders

	External								Internal								Digitalisation Themes		
	Individual & business Customers	Customers in Vulnerable Situations	Low Carbon Connecting Parties	Industrial Customers	Safeguarding Organisations	Government Authorities & Policy Makers	Supply Chain	Energy Industry & Other Utilities	Energy Control Centre Specialist	Engineering Team Specialist	Energy Operations Specialist	Future Energy Specialist	Climate Resilience Specialist	Asset Investment Specialist	Field Engineer	Customer Experience Specialist	Reporting Specialist	Digitalisation Themes	
Transforming our people services																			
Using Data to improve our Sustainability																			
Cadent Energy Data Catalogue																			
Improving System Connectivity																			
Open Data Portal																			
Future Energy Explorer Pilot																			
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Advanced Emission Detection Pilot																			
Digital Platform for Leakage Analytics																			
Open Data Triage																			
Data Sharing Licence																			
Digital Spine of the Energy System																			
Standards for Gas Data																			
Expanding Target Data Architecture																			
Asset Investment Portfolio Management																			
Virtual site pilot																			

Transforming our people services – Investing in HR Transformation Technologies



Problem Statement

- Our current HR systems are fragmented. We need to standardise these and improve the experience for our colleagues and to reduce the effort for people undertaking HR management processes.

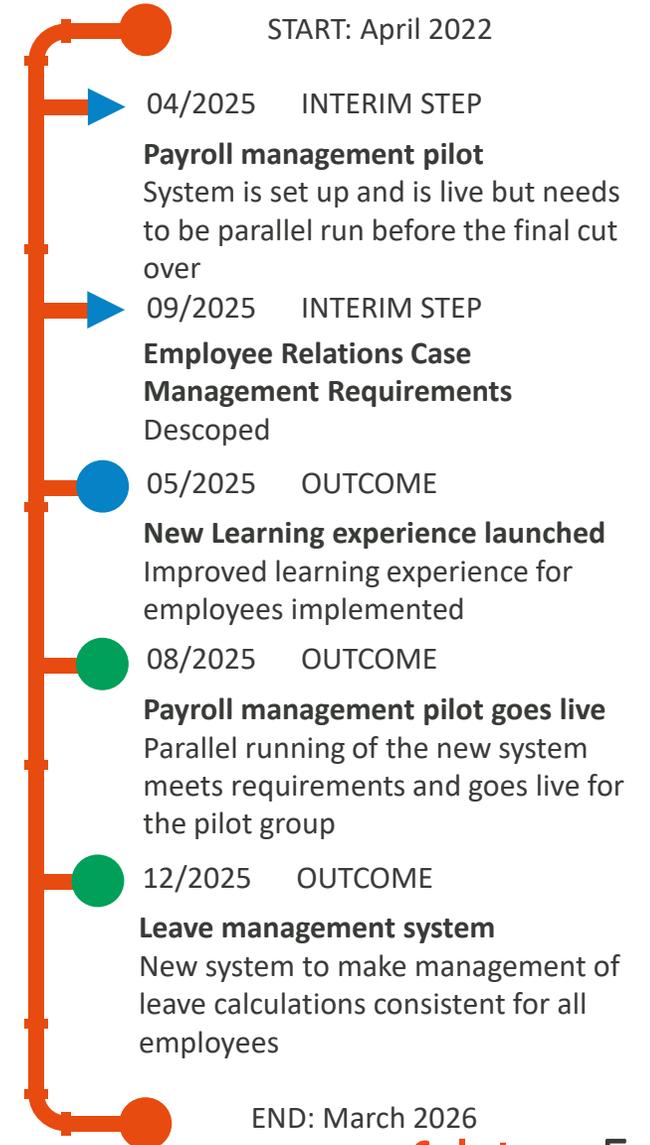
Expected Outcomes

- **Our employees** will get a new user experience which allows them to better access and interact with their HR data.
- Improved training and learning pathways will help employees stay up to date and manage their development.
- We will also introduce automation to improve HR processes reducing time overhead for managers.
- We will expand the tool to work through a dedicated mobile application to improve ease of access for all employees.

Recent Updates

- Since the last update on this project, improvements to processes have eliminated the need to continue development on a new employee relations case management system.
- This has allowed prioritisation of the new payroll management pilot, which has been successfully developed and has entered a comprehensive testing phase, planned to go live in August 2025.
- Changes to the Leave Management System are planned which calculate leave taken by hour rather than half day increments and apply this consistently for all employees.
- These changes will support our HR activities which rely on data held across multiple complex systems.
- Eventually these changes will be supported by a single application to allow employees easier access and management of their affairs.
- As with all changes relating to employees, new methods or processes need to be implemented fairly following consultation and support from the trade unions.

Key Milestones:



Using Data to improve our Sustainability – Implementing a new Environment Reporting System

Problem Statement

- We hold ourselves to high standards of environmental performance at all levels of the business. We need a new automated system to capture and record details of our environmental performance across the business so we can measure this and seek further sustainable ways to lighten our environmental footprint.

Expected Outcomes

- To support with our obligation to publish our [Annual Environmental Report](#), we are implementing a self-service system to record real time data enabling timely access to the right information providing a holistic view of our data. This will enable us to better protect **our people, Assets and the communities we serve**.
- The automated dashboards will show our energy consumption and greenhouse gas emissions and how we are reducing these to meet UK targets which will enable us to deliver our environmental commitments.

Recent Updates

- In our previous update we noted that we were reviewing the best course of action to automate and streamline the capture of data to support the environmental dashboards, and that the delivery of the core platform upgrades required to support the data capture was at risk.
- To successfully deliver dashboards, we have split the next stage of the work into two workstreams:
 - To capture the required business needs of the sustainability dashboards; and
 - To use the business requirements to design a data environment which can successfully support these dashboards, with development of the dashboards planned to commence in August 2025.
- With the core platform upgrades now scheduled to deliver to plan, we have moved the status of the delivery of the new environmental reporting system to “on target” with a delivery date of December 2025.

Key Milestones:



START: April 2023

07/2025 INTERIM STEP

System upgrade

Core platform will be upgraded to the most recent version, giving us access to the new dashboard and reporting capabilities

07/2025 INTERIM STEP

Capture all the business requirements

Business experts will be consulted for their reporting needs

07/2025 INTERIM STEP

Design the data structure to be delivered

Using the business requirements, plan the data structure to deliver the reporting needs

12/2025 OUTCOME

New Environment Reporting System

System goes live and begins roll out across Cadent

END: March 2026

On Track

Cadent Energy Data Catalogue – a comprehensive record to allow better control and visibility of our data

Problem Statement

- It's critical that we have good visibility of our data and that we manage this appropriately to apply the right controls and measures to keep the data as healthy as possible.
- Our Energy Data Catalogue programme will set up the standards and blueprints for how we record and manage our Data Assets.

Expected Outcomes

- Centralising the metadata will mean that **our specialists** can explore our Data Assets and this will reduce duplication of effort. Our **data stewards** will have a single point where they can measure and record the key steps needed to maintain the data in line with best practice and Cadent policy.
- We will create clear and consistent templates to capture technical and non-technical metadata.
- We will create the standards to help the business populate these templates and the processes to maintain and keep them up to date.

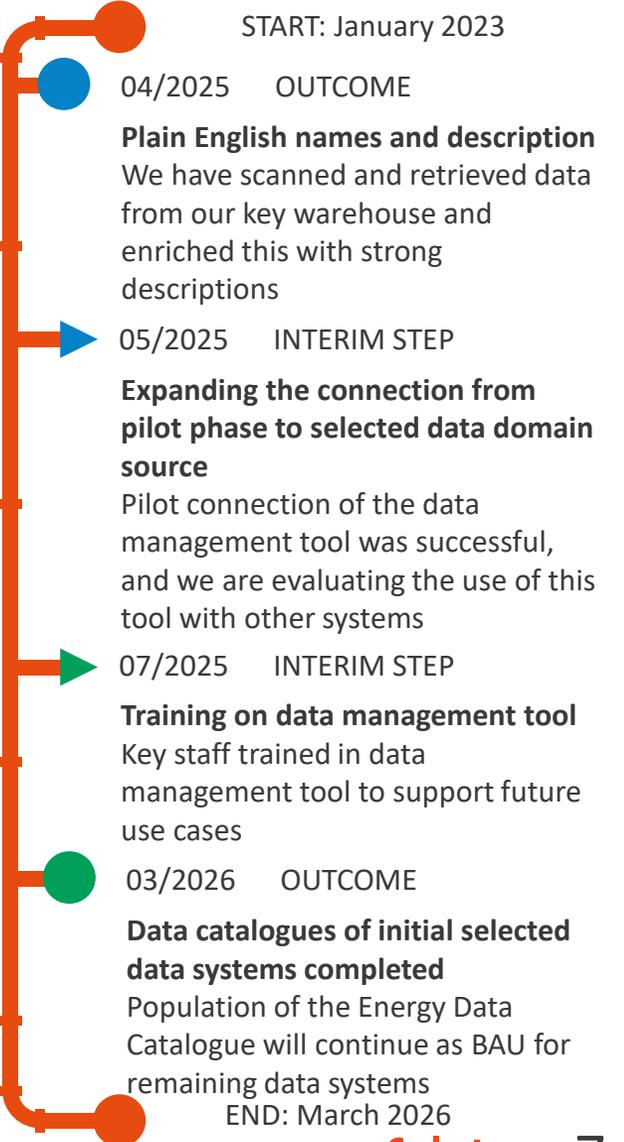
Recent Updates

- We have successfully created a detailed catalogue which includes version control, a process map, standard operating procedures, and a point of contact for visualisation purposes related to data models.
- We are introducing ways of working to maintain these elements and incorporate them into regular business operations.
- We have developed processes to ensure metadata is embedded into selected systems when new Data Assets are created, which allows us to extract the metadata to ensure that the data catalogue can be maintained efficiently going forward.
- Upskilling in our chosen data management tool will allow this to be used for more complex purposes and to potentially extend the number of systems which this can be used with.

Key Milestones:



START: January 2023



- 04/2025 **OUTCOME**
Plain English names and description
We have scanned and retrieved data from our key warehouse and enriched this with strong descriptions
- 05/2025 **INTERIM STEP**
Expanding the connection from pilot phase to selected data domain source
Pilot connection of the data management tool was successful, and we are evaluating the use of this tool with other systems
- 07/2025 **INTERIM STEP**
Training on data management tool
Key staff trained in data management tool to support future use cases
- 03/2026 **OUTCOME**
Data catalogues of initial selected data systems completed
Population of the Energy Data Catalogue will continue as BAU for remaining data systems

END: March 2026



Improving System Connectivity – Reducing development time by creating adaptable data outputs to key systems

Problem Statement

- Currently most connections between systems are bespoke and costly in time and effort to develop. We will need to use data from different sources more often as the wider energy system continues to become more sophisticated and demands for data become more complex both in our systems and externally. A reuseable API (Application Programming Interface) will allow consistency of connection and reduce re-development.

Expected Outcomes

- We will assess the data in our systems and create multiple connections to them based on potential use cases, reducing development time and allowing trusted, tested connections which can be used multiple times. These reusable APIs will allow **our data specialists** to combine data from different systems more efficiently and allow them to support the demand for complex data for stakeholders.
- With more consistent development of the data connections we build, and the ability to reuse them, we will be able to quickly connect our data through appropriate processes both **internally and to third party data**, with the right levels of control in place to manage the data.

Recent Updates

- We have completed the conceptual design of reusable connections to our Asset Data and successfully completed a proof of concept to extract data through a test connection.
- By repurposing existing logic and functions we can accelerate delivery of the Asset connections and avoid costly redevelopment of bespoke connections each time a new system connection is needed.
- While we are presently using available internal resource to develop the proof of concepts, specialist resources are needed to support this project
- Successful completion of work in the next quarter will inform how we progress the development of additional data schemas.
- More information relating to this work can be found in the [Non-Operational IT Capex Re-opener Final Determinations](#)

Key Milestones:



START: April 2025

05/2025 INTERIM STEP
Conceptual design approved
The planned approach has been scrutinised and meets requirements

05/2025 INTERIM STEP
Proof of concept connection for selected Asset Data
Successfully tested that data can be returned from source system

07/2025 INTERIM STEP
Analysis of connection between storage and processing systems – selected Asset Data
Using wherever possible existing logic and patterns we need to understand how to get data transferred

07/2025 OUTCOME
High level design approval
We have created the blueprint by which we will create all the connections

END: March 2026

Open Data Portal – a digital service to make our data available to stakeholders

Problem Statement

- Ofgem introduced [Data Best Practice Guidance](#), a key part of which is making our data open and discoverable for stakeholders. The evolving energy system landscape and technological innovation means we face increasing and more complex data demands from our stakeholders.
- We need a more effective and efficient way of **providing our stakeholders** with the data they need.

Expected Outcomes

- Our current solution required manually managing Data Assets, releasing them on request. It was slow and difficult for stakeholders to interact with.
- Our new Open Data Portal allows Data Users to self-serve Data Assets in a variety of formats, with visualisations and supporting documentation embedded. This makes our data more discoverable and accessible
- We will continually review and expand our range of Data Assets to meet evolving **Data User** needs.

Recent Updates

- We launched our new [Open Data Portal](#) in October 2024 and have continued to develop it since then.
- Initially, our main focus was to provide basic functionality with core Data Assets and since then we have redeveloped the pages to make them easier to navigate across different devices, incorporated feedback forms and configured the platform to let us serve Data Assets of different levels of control.
- Work now focusses on:
 - Automation and integration of the platform with our systems so that data can be refreshed frequently and automatically, ensuring Data Users always have access to the most current data.
 - Delivery of a wider array of Open Data Assets, for example dedicated pipeline Data Assets to support **Local Authorities**, identified as a key stakeholder requirement.

Key Milestones:



START: January 2023

03/2025 INTERIM STEP

Connecting the portal to Cadent Systems

Cadent can now trigger an update of a Data Asset in the portal automatically

07/2025 INTERIM STEP

Data Asset refresh is done by scheduled update

Data Assets can be refreshed in Cadent Systems automatically

07/2025 OUTCOME

Data Assets are refreshed end to end automatically

12/2025 OUTCOME

Accessibility of the portal is improved [ReciteMe](#) is enabled

END: March 2026

Future Energy Explorer Pilot – Laying the foundations for analysing future energy scenarios

Problem Statement

- Gas is a critical part of the current energy mix, and it is vital to understand the impact of Net Zero and the gas industry’s part in achieving this.
- We need to support our stakeholders and create reliable models which can quickly calculate the outcome of different scenarios.

Expected Outcomes

- This Future Energy Explorer pilot will make digital tools available to our **Future Energy Specialists** to provide critical insight on viable future energy pathways and support planning to Net Zero.
- We will pilot a digital solution which creates precise scenarios for our **customers** using detailed data and sophisticated modelling techniques and expand this to meet the needs of our stakeholders such as **Government Authorities & Policy Makers**.

Recent Updates

- Following the successful delivery of the Future Energy Explorer (FEE) pilot as detailed in the previous Digitalisation Action Plan, the focus of work during this reporting period has been on what appropriate future development should take place.
- The FEE pilot was a success and yielded valuable insights. However, a decision has been made that the best approach for future development would be to take the logic and insights developed through this pilot and look to deliver these within an existing tool.
- As no further development will take place directly on the pilot, this action has been marked as completed.
- [We have published an article giving details of the wider future of the gas network.](#)

Key Milestones:



START: November 2023

04/2025 INTERIM STEP

Finalised High Level Solution Design assessment

A review of the next steps for the pilot has been undertaken and submitted for decision

06/2025 OUTCOME

Decision on the future development of the FEE

Outcome of the decision – The logic and lessons learned will be captured and no further development of the FEE in its current state will be progressed. The pilot has successfully completed.

END: March 2026



Biomethane Smart Control – Modelling and monitoring our network to maximise the injection of Biomethane

Problem Statement

- Biomethane is a green gas which is created from organic material; offering a low carbon alternative to natural gas.
- Biomethane injection into our network is optimised where there are lower pressures, but without the right monitoring and controls, this could threaten security of supply for our customers. This limits the number of potential sites where we can inject biomethane.

Expected Outcomes

- We will create models which will help us identify the most efficient way to inject more biomethane gas into our network to support our **Low Carbon Connecting Parties**. This model will be supported by smart pressure and flow monitoring devices identifying more opportunities to inject biomethane more often and reducing the impact of seasonal changes in demand.
- We will install pressure control devices, including the first implementation of a compressor on a gas distribution network to help us create optimal conditions for biomethane by controlling the pressure of gas on the network.
- We will use these techniques on two biomethane injection sites to let us prioritise the use of biomethane over natural gas, showing an increase in the volume of gas injected through these sites.

Recent Updates

- We have successfully installed a compressor and supporting infrastructure.
- The installation of smart pressure controls and flow measurement equipment at candidate sites will provide timely and accurate data and is the focus for deployment over the coming six months.
- The data from these devices will be essential to the successful deployment of the model which will help to optimise the use of biomethane over natural gas.

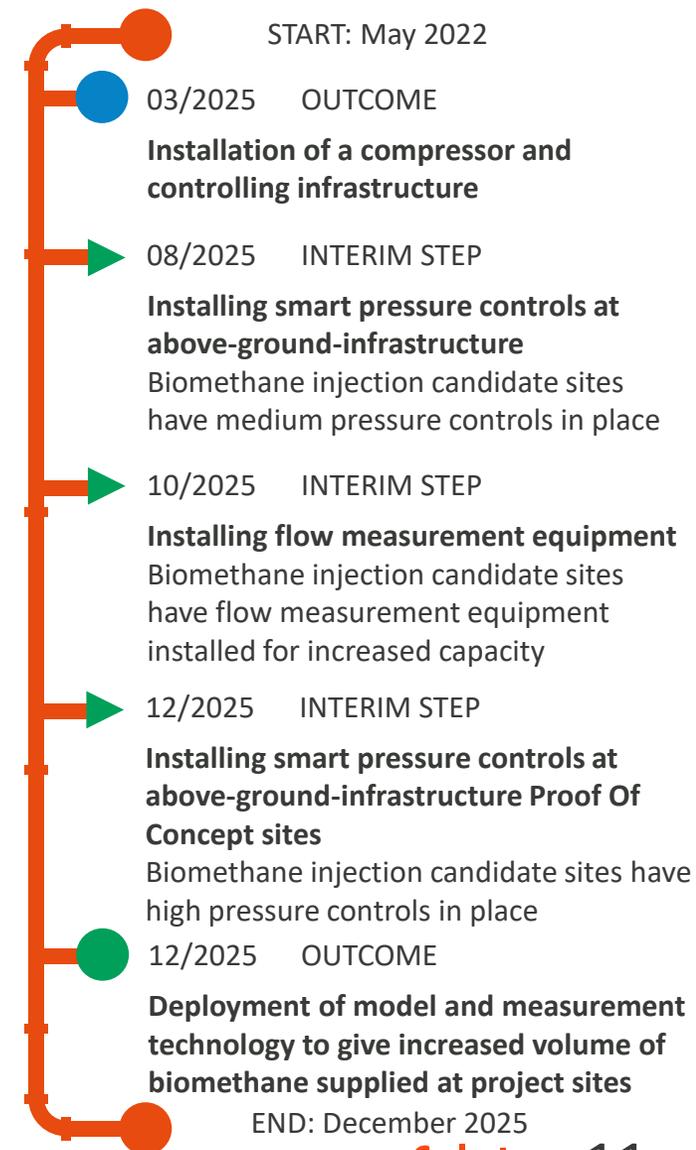
More information can be found here:

- [Biomethane - Cadent Gas Ltd](#)
- [Optinet](#)
- [More information about Biomethane](#)

Key Milestones:



START: May 2022



END: December 2025

Complete

Advanced Emission Detection Pilot – Using new technologies to detect emissions from our network

Problem Statement

- The escape of gas emissions from our network compromises safety and contributes to green house gas.
- New technologies might help us better detect gas escapes so we can prioritise fixing these to help serve our customers better and meet the requirements of the HSE.

Expected Outcomes

- We will undertake a pilot that uses new detection methods, including mobile sensors, to collect a baseline view of emissions across our network.
- We will continue to monitor our network and where increased emissions are detected, develop a way to pass this information through to our **Engineering Team** to investigate and resolve the leak.
- We will integrate this data into our core business functions and the work of our **Asset Investment and Engineering Specialists** such as prioritising activities in our mains replacement & repair programme.

Recent Updates

- This project has been recognised by the industry and was awarded [IGEM winner 2025 for Project of the Year](#) and the digitalisation innovation for this pilot has now completed.
- We will take the techniques developed through this pilot and continue to work to embed the best practices from this into our business processes.
- We will need to work with Government and Regulatory bodies to update the way emissions detected through these new methods are processed and handled within the business, and to assess suitable funding mechanisms to extend the methods developed through this pilot to other areas of our network.

Key Milestones:

START: April 2023

06/2025 OUTCOME

Completion of the pilot

The core outputs and learnings from the pilot are reviewed and prepared for future development of the Advanced Emission Detection Programme

END: June 2025

Cadent



At Risk

Digital Platform for Leakage Analytics – Identify methane emissions through non-physical methods by modelling with sensor data

Problem Statement

- 98% of our carbon emissions are because of methane emissions from our network. This impacts the customers' bills, the environment and the safety of our network for everyone.
- Detection of emissions through traditional means can be difficult with access limited to buried Assets

Expected Outcomes

- We will create a sophisticated model which can identify where emissions are happening in our network from the sensor data we have available.
- We can also incorporate the data gathered under the [Advanced Emissions Detection Project](#)
- We will be able to detect and report methane emissions with more accuracy to allow our networks to act more proactively.
- We will create a strategic innovation funded project to model, analyse and report on emission data on parts of our Eastern and North London networks.

Recent Updates

- This has been developed as a [Strategic Innovation Fund project](#) but additional investment will be requested to continue development under RIIO-3.
- While the Advanced Emissions Detection project focusses on directly detecting emissions, this project uses sensor data and a sophisticated model to locate emissions which makes it useful for use in places where physical detection is harder to implement.
- **There is a risk that**, with the complexity and innovative nature of this project, technical challenges have been encountered which have required that delivery be pushed back.
- This may impact the continuation of the project under the existing SIF funding mechanism.

Key Milestones:



START: September 2023

08/2025 INTERIM STEP
Ofgem indicates approval of extending the Digital Platform for Leakage Analytics (DPLA) Programme
Initial draft determination on the continuation of this programme into the next regulatory period

11/2025 OUTCOME
Completion of SIF beta phase
Development of a number of advanced analytic models that help predict leakage in East Anglia and North London Areas

03/2026 OUTCOME
Commence expansion of DPLA to other Cadent Networks and to other Gas Distribution Networks
Subject to RIIO-3 Ofgem funding decision

END: March 2026



On Hold

Open Data Triage – reviewing the Open Data Triage Playbook to support a common experience

Problem Statement

- Ofgem’s [Data Best Practice Guidance](#) requires us to classify our data through the Open Data Triage process, to support data sharing effectively with the right controls in place.
- The Open Data Triage Playbook was created by [Energy Networks Association](#) (ENA) to help support the interpretation of the DBP Guidance, but it needs to be updated to remain current.

Expected Outcomes

- Through the appointment of a third-party, and collaboration of the different Energy networks, the Open Data Triage Playbook will be reviewed and updated.
- This collaborative approach should encourage energy networks to apply a consistent approach to data triage, so that the experience of **Data Users** when requesting a similar Data Asset is consistent.

Recent Updates

- The gas networks left the Energy Network Association at the end of December 2024, which included participation in ENA projects and workstreams.
- We will review any information about the Open Data Triage Playbook Refresh workstream which the ENA publishes openly
- We will adapt our processes to align them with the outcome of the ENA workstream once it has been completed.
- Until the ENA workstream is completed and the refreshed Open Data Triage Playbook published openly, we have marked this action as “On Hold”.

Key Milestones:



START: September 2024

01/2025 INTERIM STEP

Cadent leaves the ENA
Cadent can no longer participate in the development of the Open Data Triage Playbook

12/2025 OUTCOME

Review the output of the ENA Open Data Triage Playbook refresh workstream

We will continue to monitor the output published by this ENA workstream.
On publication we will review our Open Data Triage process.
The timeframe for this action step is nominal as it is dependent on a third-party project.

END: December 2025

Cadent



On Hold

Data Sharing Licence – Common “Shared” Data Licence – a common experience for stakeholders across all networks



Problem Statement

- Ofgem introduced [Data Best Practice Guidance](#), a key part of which is making our data open and discoverable for stakeholders.
- Data Assets which are triaged as “Shared” require additional controls. Every network has its Data Sharing Agreement to do this, making the process cumbersome for stakeholders.

Expected Outcomes

- The [Energy Networks Association](#) (ENA) initiated a workstream to create a common Data Sharing Licence to be used where a Data Asset is triaged as “Open”.
- As the licence, or core terms of it are common, **stakeholders who wish to access data from multiple energy networks** will find the experience consistent.

Recent Updates

- The gas networks left the Energy Network Association at the end of December 2024, which included participation in ENA projects and workstreams.
- We will review any information about the Data Sharing Licence workstream which the ENA publishes openly
- We will adapt our processes to align them with the outcome of the ENA workstream once it has been completed.
- Until the ENA workstream is completed and the refreshed Data Sharing Licence published openly, we have marked this action as “On Hold”.

Key Milestones:



START: September 2024

01/2025 INTERIM STEP

Cadent leaves the ENA
Cadent can no longer participate in the development of a new licence for Shared data

12/2025 OUTCOME

Review the output of the ENA Open Data Triage Playbook refresh workstream
We will continue to monitor the output published by this ENA workstream.
On publication we will review our Data Sharing Agreement.
The timeframe for this action step is nominal as it is dependent on a third-party project.

END: December 2025

On Track

Digital Spine of the Energy System – assessing potential use cases for gas network data with the Data Sharing Infrastructure (DSI)

Problem Statement

- The evolution of the energy market and the challenges of achieving Net Zero means data will need to be shared more often between more parties.
- Implementing data sharing between parties requires contracts and agreements on how data will be transmitted and in what form, slowing down the delivery of critical information.

Expected Outcomes

- Ofgem has identified a need for a common environment where data can be provided from one party to another under a centralised trust framework to support **industry stakeholder data needs**.
- This Data Sharing Initiative will need collaboration between similar parties to develop common Data Assets which can be delivered in a consistent manner.
- An interim governance entity has been appointed and a pilot undertaken to prove the proof of concept. While work to build the DSI is a RIIIO-3 activity the magnitude of the work means planning needs to start as soon as possible to ensure a successful delivery.

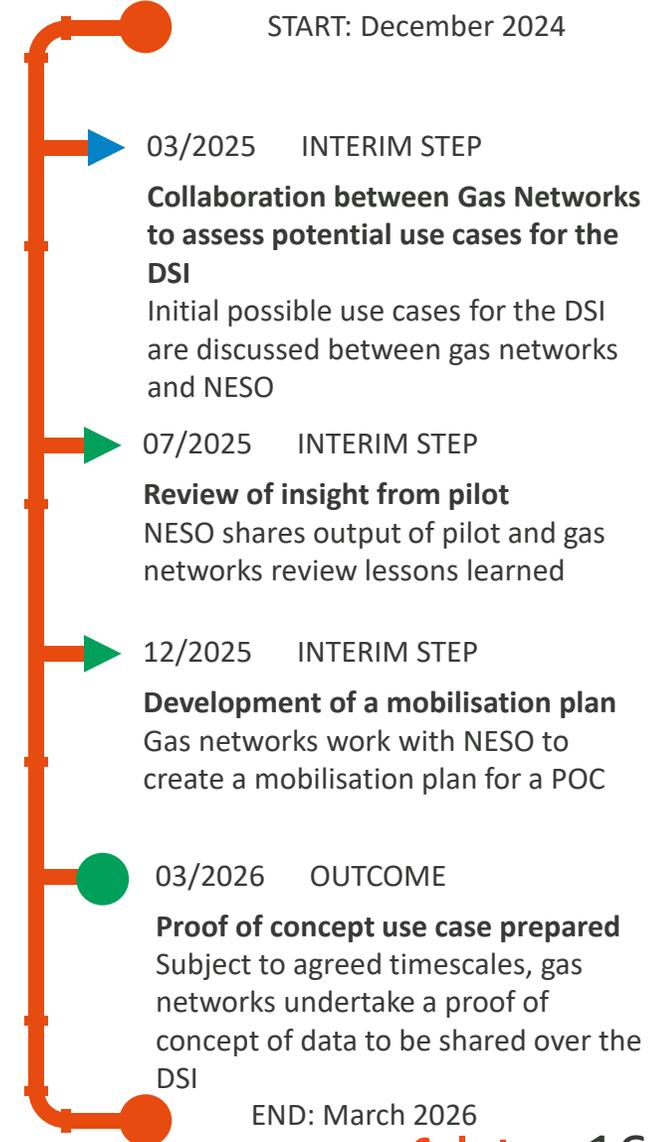
Recent Updates

- The scale of the work needed to develop an interface and Data Assets for transmission via the DSI requires early engagement and close attention to the lessons learned from the pilot phase.
- Through the Gas Data & Digitalisation Collaboration Group the gas networks have agreed potential use cases for a proof of concept and engaged with NESO to initiate development of this.
- It is critical that we learn the lessons from the pilot NESO has undertaken and create a clear path to mobilisation, in collaboration with the other gas networks.
- We have assessed and agreed an initial potential use case for DSI based on data which is already shared between the different gas networks.

Key Milestones:



START: December 2024



END: March 2026



Complete



Interoperable Standards for Gas Data – collaborating with other networks to create a Minimum Viable Product standard for key data attributes

Problem Statement

- The transformation of the whole energy system means that there is a greater demand for data than ever before. Data from different stakeholders isn't mutually compatible, making it difficult to align and use. By working with other energy networks, we can identify key data attributes and create Data Assets which are fully interoperable between different gas distribution networks for stakeholders.

Expected Outcomes

- Presently, all the gas networks are publishing their own data in their own formats.
- We will work with other gas networks to identify key data attributes and create a common standard for how we will publish these.
- This standard will be applied to our Open Data Assets which will be published in a format which is common to the other networks, so that any **stakeholder who needs data** from multiple gas networks and combine them quickly and easily.

Recent Updates

- We have collaborated with the other Gas Networks and identified core data attributes which Data Users request.
- We have analysed our data and aligned the outputs, which has been recorded in the Gas Networks Interoperable Data Standard.
- We have published an initial block of Data Assets in this standard, specifically for **Local Authorities**, as they may require Data Assets from multiple gas networks for their analysis due to their geographic location, and will continue to publish more Open Data Assets in line with the new Standard.
- We will continue to assess how the MVP Gas Networks Interoperable Data Standard can be expanded and governed

Key Milestones:



START: July 2024



02/2025 INTERIM STEP
Sign-off of first draft
An initial draft is agreed by the gas networks

04/2025 INTERIM STEP
Minimum Viable Product completed
All gas networks demonstrate test Data Assets and combine them

05/2025 OUTCOME
Data Standard signed-off
All gas networks agree the sign-off of the mvp Gas Networks Interoperable Data Standard

END: May 2025

Cancelled



Expanding Target Data Architecture

— sustain performance and optimise operational performance through new data capabilities

Problem Statement

- The energy market is evolving at a remarkable pace, and existing systems and interfaces will limit the flexibility needed to model and plan changes to our network.

Expected Outcomes

- Our **Energy Operations Specialists** can display 3D design of a gas Asset and understand location, condition and risk.
- Our **Asset Investment Specialists** can modify scenario parameters and for the model to provide recalculated outcomes with no manual transformation to explore “what if?” analysis to stress test outcomes and to develop efficient strategies.
- Our **Future Energy Specialists** can access and understand historical performance data from OT devices by improving data availability of historical sensor data.

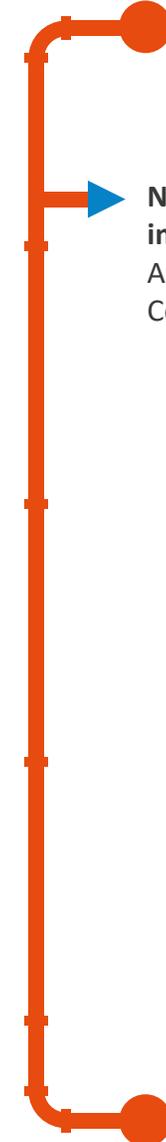
Recent Updates

- This initiative was created in the December 2024 Digitalisation Action Plan, to capture the work being done in three key areas. Since then, we’ve progressed on these individual activities and to provide greater detail, have dedicated activities relating to these as follows:
 - Work to support our Energy Operations Specialists is taking place in the [Virtual Site Pilot](#)
 - Work to support our Asset Investment Specialists with data to support their modelling is taking place in [Improving System Connectivity](#)
 - Work to support our Future Energy Specialists took place through our [Future Energy Explorer Pilot](#)
- We will continue to provide details of updates for these activities through their own, or new initiatives.

Key Milestones:



START: December 2024



No key milestones under this initiative

All work relating to this activity will be Covered under other initiatives

END: June 2025

On Track

Asset Investment Portfolio Management – Digital solutions to visualise Asset investment scenarios

Problem Statement

- Presently the development of any modelling scenario is manually intensive which restricts efficiency.
- With the challenges of climate resilience, Net Zero and whole system planning, there is a need for scenario planning through increasingly sophisticated modelling which can visualise results quickly and with minimal manual intervention.

Expected Outcomes

- New approaches to modelling which deliver output quickly and require minimal manual intervention for:
 - Whole System Scenario
 - Climate Resilience
 - Asset Investment Portfolio Management
- Models will have access to high quality, interoperable data, supporting the work of our **Future Energy, Climate Resilience and Asset Investment Specialists.**

Recent Updates

- This initiative is subject to RIIO-3 investment approval.
- In preparation for the work to be done in RIIO-3, we need to undertake discovery of the requirements for delivery prior to the RIIO-3 period as all scenario modelling will require high quality and interoperable Asset data as a foundation.
- As funding is not confirmed for this action, only preparatory work is being done in the RIIO-2 period, there are no outcome deliveries listed as key milestones.

Key Milestones:

START: March 2025

07/2025 INTERIM STEP

Asset Management Data Discovery
Map out the business processes, high level data elements and how these are transformed into main Asset Investments metrics

END: March 2026

Cadent



Complete

Virtual Site Pilot – using point-cloud scanning to create a 3D model of our critical Assets

Problem Statement

- We store and maintain a lot of information about our sites, but it is held across multiple systems which makes getting a consistent view for everyone more difficult.
- **Office based planning engineers** may have use different systems than **field engineers**, and these different views of our sites can introduce communication barriers.

Expected Outcomes

- We will create a single view of all the relevant information for a site in one place which all our engineers can use to collaborate and coordinate strategic investments, maintenance activities and project deliveries.
- With all the relevant data in one place, supported by 3D Augmented Reality / Virtual Reality, we can improve our design processes leading to better planning with more accurate times and costs.
- A visual representation of the site will help our **Engineering Teams and Engineering Specialists** to improve the quality and safety of the delivery, helping to ensure that the right construction Assets can be used at a given site. Having all the right information to hand supports training and workforce competency
- The system can be updated over time and show progress of works and current state of the site, capturing changes with video scanning.

Recent Updates

- The complexity of this work required significant investigation into the available solutions on the market. Following this, a procurement process was undertaken to appoint a delivery partner. The assessment of the market offerings and procurement process took place between June and December 2024, with the appointment of a delivery partner in January 2025.
- The initial Proof of Concept completed March 2025.
- We have demonstrated the ability to integrate 2d and 3d data, allowing comprehensive data about a site to be viewed in a single system.
- We will take these techniques forward to expand this to capture data at more sites by the end of RIIO-2.

Key Milestones:



START: January 2025

01/2025 INTERIM STEP
Appointed technical partner and agreed scope of works

03/2025 OUTCOME
Two sites scanned as a proof of concept
The technology has been proved through a proof of concept, with lessons learned feeding the next stages

03/2025 OUTCOME
Integration of 3d and 2d data in a single point of view system
Delivered as part of the POC

END: March 2025



Our previous Digitalisation Action Plans:

Date of publication	Link
December 2024	<u>Digitalisation Action Plan - Dec 2024</u>
June 2024	<u>Digitalisation Action Plan - June 2024</u>
December 2023	<u>Digitalisation Action Plan - Dec 2023</u>
June 2023	<u>Digitalisation Action Plan - June 2023</u>
December 2022	<u>Digitalisation Action Plan - Dec 2022</u>
June 2022	<u>Digitalisation Action Plan - June 2022</u>
December 2021	<u>Digitalisation Action Plan - Dec 2021</u>
December 2020	<u>Digitalisation Action Plan - Dec 2020</u>

Open to You

Being open and transparent is part of our culture, we would welcome hearing from our customers and communities to improve the value we deliver.
Your comments and suggestions on our Digitalisation Action Plan are valued.

There are multiple ways you can engage with us and share your views and comments



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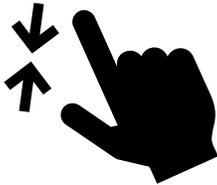
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