

Can Digitalisation Bolster (<2bar) Resilience?

EIP009

28 February 2023

Background

- As GDNs continue to deliver their Digitisation Strategy to facilitate a greater ability to utilise real time pressure monitoring and system management through use of distributed technology such as IoT (Internet of Things) enabled devices.
- Part of this work should also include evaluating the value of capturing, monitoring and reporting on different metrics, today the networks predominantly analyse pressure, flow, temperature & quality (at specific locations).
- Future networks (<2Bar) may benefit from the ability to report and react to differing metrics i.e., Composition, Calorific Value, Velocity etc. Outcomes of this evaluation will identify a suitable range of device/instrumentation types that could be deployed on the network, the volumes required, suitable locations and how deployment of such devices should be prioritised
- This will improve GDNs ability to efficiently manage the gas distribution network today, however, will also increase resilience and reliability during the energy system transition as a result of changing customer demands

Enablers and Constraints

- Enablers to this work are existing projects looking at what technology can be deployed onto the network to enable digitisation
- Previous Projects- NIA_NGN_303 – IoT Pressure Sensor Pilot. Learnings can be taken from this project from the successes of the field trials
- Key constraints to this problem are the success of other technologies being developed and the large-scale implementation in a timely/cost efficient manner

Involvement and Implementation

Key Stakeholders

- Other GDNs, DNOs, Local Authorities, Customer Groups

Target Market

- Technology Partners, Academia

Target Implementation Date

- RIIO GD2 and beyond, dependent on proposals. Solutions could be scalable across Network Operations, System Control, Network Analysis & Modelling

Energy Innovation Basecamp

28 February 2023
ICC Birmingham

#Basecamp28

Participant joining code
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