

How Can We Enable The Future Gas Distribution System Operator?

EIP001

28 February 2023

Background

- Existing network control centre processes are developed for use with traditional producers/sources including from the NTS & Biomethane
- As the energy system transitions to lower carbon gases, a new system control solution needs to be developed to facilitate ease of use across pressure tiers, including accounting for the required flexibility & storage requirements of the future.
- Future Gas Distribution System Operation will be reliant on collaboration between GDNs & DNOs to enable an efficient and coherent approach to the energy system transition.

Enablers and Constraints

- Enablers are considered to be utilising learnings and engagement with the existing National Future System Operator work streams.
- No previous Gas projects that primarily focus on developing a greater understanding of how control centres will have to adapt to low carbon gas
- Key constraints to this problem include ensuring engagement between GDNs & DNOs to enable an efficient and coherent approach to the transition from biomethane & natural gas to the low carbon fuels of the future

Involvement and Implementation

Key stakeholders

- GT&M, Producers/Shippers, Market Services (NGN), System Control (NGN), Supply Strategy (NGN), OFGEM, 3iG (NGN)

Target Market

- System Modelling Providers/ AI Developers

Target Implementation Date

- RIIO GD2 and beyond, solution to be developed in line with NGN Cyber Security requirements in collaboration with NGN's 3iG Team. A Prototype solution would be modelled and tested on a separate system to validate accuracy and performance before implementation.

Energy Innovation Basecamp

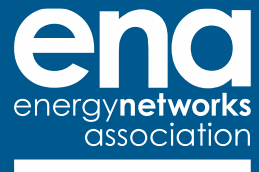
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Participant joining code
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