



GQ Sample Line Assessment and Tech Watch

Value Tracking Case Study



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Background

This project set out to assess the design and performance of sample systems on site to the latest innovative tools and techniques that are present in the market today. The Foreground IPR developed as a result of this research is owned by National Gas Transmission and has been made freely available as part of the Final Technical Report published alongside the closure report on the Smarter Networks Portal. Innovation assessment and technology watch of Gas Quality sample lines across the NTS.

What's new?

Improvements identified to ways of working via updates to specification:
T/SP/GQ/9 - Gas Quality Measurement Systems Connected to the NTS. Section 3.9 (Sampling System) updates based on findings and improvement to overall sampling process. Updates ensure sampling is measure at actual gas levels and avoid delays or impacts to the process.

The benefits

- Highly replicable, as the analysers can be used on all NG sites but also approximately 200 Distribution and Biomethane sites.
- Outputs to be used as part of RIIO2 activities.
- A better understanding of a representative sample of gas analysers on the National Transmission System indicating any issues in the way they have been designed and

- built which will assist in planning for their replacement through RIIO-T2 and beyond.
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- The learning will potentially improve the accuracy in measurement of HydroCarbon DewPoint for RIIO T2.
- The learning could be applied to all Distribution Network and BioMethane Analyser sample points used in the Flow Weighted Average CV process. There are 44 NG sample points and circa 200 Distribution/Bio sample points.
- Better future design of the gas quality sampling systems.

Financial savings

Improvements to be made to sampling system as a result of this work with further benefits to be tracked as an outcome.

Implementation

Work procedure T/SP/GQ/9 updated and this specification will then be included in future designs/design review of exiting systems proposed in RIIO2 works. Ongoing engagement with subject matter experts to highlight further opportunities to this work.

