

Gas Network Innovation Competition Full Submission
Supplementary Answer Form

Project: Real-Time Networks

Tick if this answer has been provided verbally: ☐

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| Project code | SGN_GN_03 | Question Number | 25 |
| Question date | 29/09/15 | Answer date | 02/10/15 |
| Submission section question relates to | Bilateral Meeting clarification question 1 | | |
| Topic | | | |
| Question | Please explain why modeling undertaken on other networks (e.g. the Dutch network) cannot be transferred across to the UK (i.e. what about the UK network is so idiosyncratic that it requires its own modelling to be done?) | | |
| Notes on question | | | |
| Answer | <p>This project has progressed through a robust commercial process including both an internal and independent, external, third party reviews. As part of the feasibility study, a global search was conducted that identified relevant projects across the gas industry.</p> <p>The vast majority of the gas pipes in the UK operate at below 75 mbar and indeed the majority of these networks have supply pressures between 30 and 50 mbar.</p> <p>In other areas of the world the pressure ranges typically used for gas distribution are 2 bar and 4 bar. Other low pressure tiers are possible and may be used to a limited extent, but the UK is unique in using 75 mbar systems as the primary means of distribution to the vast majority of gas consumers. For this reason the research requires the collection of 6 minute data from loggers and sensors used in the project.</p> <p>For 2 bar pressure tiers and above a 1 hour timebase is typical used for design of the system. At these pressures there is lesser risk of a spike in demand causing a pressure issue within the network.</p> | | |

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| | <p>To be properly applicable to the demand modelling to be developed in this project any data related to gas usage from research carried out in Europe or elsewhere would need to be at a six minute time base (or less). If other research data is available and does offer an insight into general renewable behaviour and the relationship between gas use and electricity, then that may benefit the project and would be considered. However, the understanding would need to be clearly applicable to the UK and particularly the behaviour of UK consumers.</p> <p>The renewables section of the project includes an initial feasibility study which will consider different sources of data for the impact of renewables. Any available data from the Dutch networks, which is at their discretion to share, will be considered in this context. See also the response to Q28 which identifies that UK based data to be used to underpin or inform the results from lab testing.</p> <p>Furthermore, following verbal discussions with Alliander at the feasibility stage of RTN, although their intention is to develop a commercial software package/product, this is not currently available to assess applicability.</p> |
| Attachments | |