

## City CNG (NGN) - 2015 NIC ISP Questions

- 1. In the proforma you ticked that the project delivers a specific novel arrangement or application of existing gas distribution network. Please can you elaborate on how the project meets this requirement?**

Currently there are no high pressure gas network (above 7 bar) connections to city based CNG fuelling stations from the LTS. Sizing and building the connection to accommodate a scaling CNG station will be the first of its kind and will serve as a case study for future UK connections. At the end of this project there will be a city based CNG fuelling station connected via the high pressure grid system, this first of its kind in the UK.

- 2. The proforma states that there are technical complexities that create a risk for a station to connect the high pressure grid. Please explain further the issues and the innovation related to connecting a fuelling station directly to the high pressure grid, compared to any other type of connection to the high pressure grid.**

The complexities surround design sizing of the connection to facilitate a 'potential' scaling CNG station. For example is the connection based on 80 garbage trucks or mass scale depot based vehicle conversion? In reality these complexities extend past the meter connection in areas such as compressor sizing, de-odorisation, storage etc. When the project is considered as a whole it will provide demonstrable evidence for high pressure connection sizing, associated metering and other downstream complexities that need to be taking into account when optimising design for CNG city based fuelling stations. Understanding the scaling profile for these stations i.e. volume conversions over time it will be possible to design optimised connections.