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| Network Innovation Competition 2020 Supplementary Answer form | | |

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| Project Name | H100 Fife | | |
| Question number | #34 | Pro forma section | 6 |
| Question date | 24/09/20 | Answer date | 28/09/20 |
| Question summary | Please can you provide further details on how consumer appliances are going to be monitored throughout the operational phase of the project? | | |

## 

## Answer (please retain document formatting and do not exceed 2 pages unless otherwise agreed with Ofgem)

We have agreed partnerships in principle with the hydrogen appliance manufacturers of the BEIS Hy4Heat programme, which includes Baxi and Bosch as the hydrogen boiler manufacturers and the HyCookers and HyFires consortiums. We are also engaged with MeteRSit and Fiorentini who are developing hydrogen domestic meters as part of the Hy4Heat programme. The regulations and standards for components and installations under this programme sets the precedent for conversion and installation of all system components to be in accordance with:

* Gas Safety (Installation & Use) Regulations.
* IGEM Hydrogen Reference Standard (IGEM/H/1) or equivalent hydrogen specific amendments to existing IGEM natural gas standards.
* BSI PAS Installation Standard – pipework and ventilation.
* Installed hydrogen appliances to be certified by a Notified Body in accordance with Gas Appliances (Enforcement), Miscellaneous Amendments Regulations with the use of PAS 4444.
* Installed hydrogen smart gas meters to be certified by a Notified Body (for metrology and safety) and to be SMETS2 compliant.

Following discussions with the appliance and meter manufacturers we will be gathering information on appliance performance and operation, maintenance, customer interaction and acceptance. This will be factored into the H100 Fife Homes downstream plans. As an example, we will undertake servicing at regular intervals during the trial. At this time we will gather operational data and consumer feedback. As part of the opt-in process we will be looking for some properties to consent to more frequent visits to support remote monitoring of boilers, for example.

We have significant experience in safety and management of maintenance downstream of the ECV through SGN’s ‘Opening up the gas market’ (OGM) project. Under this project, appliance spot checks were a commitment for the duration of the field trial to ensure appliance performance was continually monitored. A similar approach is planned for H100 Fife, to satisfy service requirements as well as additional spot checks to maximise data representativeness and reliability. This spot check approach was an essential component of evidence of >5 year operating history for the HSE following the roll out of OGM to the 4 mainland SIUs in Scotland.

We will also liaise with Fife Council to make them aware of the maintenance plans for the Council owned properties that opt-in to the project and agree the procedure for this. Appliance maintenance will be led by the appliance manufacturers with additional expertise from hydrogen consultants, and oversight by SGN. We are mindful of offering opportunities for hydrogen training to future proof the skills set of local contractors in the area and will aim to build this into the project.