

**BEIS HY4HEAT**

**HYFIRES CONSORTIUM**

**HYDROGEN GAS FIRES**



## THE HYFIRES CONSORTIUM

**Enertek International Ltd** – Consortium lead and R&D partner



**Charlton & Jenrick** – Gas Fire Manufacturer



**Gazco Stovax** – Gas Fire Manufacturer



**Glen Dimplex (Valor)** – Gas Fire Manufacturer



**Beckett Thermal Solutions** – Burner Manufacturer



**Teddington Controls** – Controls Manufacturer



The HyFires Consortium comprises the UK's three leading gas fire manufacturers supported by two major component manufacturers and an R&D consultancy. These six companies have worked collaboratively throughout the Hy4Heat programme to produce a range of three certified 100% Hydrogen gas fire models comprising a traditional open fronted coal effect gas fire, a glass fronted conventionally flued version and a glass fronted balanced flued model.

Beyond Hy4Heat the Hyfires collaboration is to continue in a formal capacity to provide gas fires throughout the period of neighbourhood, village and town trials during the next few years prior to volume production.

## THE PRODUCTS - 100% HYDROGEN CERTIFIED GAS FIRES

### The Valor Dream 945H

– A traditional open flued hydrogen gas fire



### The Charlton & Jenrick Focus HE H<sub>2</sub>

– A glass fronted conventionally flued hydrogen gas fire



## The Gazco Logic HE H<sub>2</sub>

– A balanced flue hydrogen gas fire.



Each of the fires have already been certified for use in field trials and full certification (for serial production) will be achieved by November 2021.

## PRODUCT FEATURES - (Standard on all models):

- Remote control for ignition and flame modulation on/off & maximum/minimum
- Fully automatic electronic sequence controls – No user intervention necessary
- Dimensions and performance identical to the natural gas equivalents
- Installation requirements straightforward and similar to natural gas models
- Attractive flame picture with zero carbon emissions
- NOx emissions are lower than the natural gas equivalents
- Costs (when manufactured in volume) will be similar to natural gas equivalents

## FUTURE DEVELOPMENTS –

Prior to commercial production, models will be adapted for use with methane so that 'Hydrogen Ready' versions will be available in advance of the opportunity to convert them to hydrogen when the gas supply is changed.

## THE MARKET OPPORTUNITY

Gas fires provide rapid, efficient and cost effective secondary heating solutions. This leads to many marketing opportunities including:

- The presence of a traditional flame as a feature in the lounge is desirable to a large percentage of the population
- There are approximately 11 million homes in the UK with a gas point next to a chimney
- 3.2 million homes are in fuel poverty, many heavily rely on their gas fire
- Wide ranging appeal from pure heat to high end bespoke applications
- Lower cost heaters (Outset Radiant) can offer 80% efficiency and offer incredible reliability but being mainly mechanical can give up to 20 years' service