

BEIS HY4HEAT

HYCOOKERS CONSORTIUM

HYDROGEN GAS COOKERS



THE HYCOOKERS CONSORTIUM

Enertek International Ltd – Consortium lead and R&D partner



Glen Dimplex Home Appliances – Gas Cooker Manufacturer



The HyCookers Consortium comprises the UK's largest manufacturer of domestic cookers (GDHA) and an R&D consultancy (Enertek International Ltd). These two companies have worked collaboratively throughout the Hy4Heat programme with input from key suppliers to produce a range of three certified 100% Hydrogen gas cooking appliances comprising a hydrogen gas hob, a built-in oven/grill and a freestanding cooker.

Beyond Hy4Heat, GDHA intend to continue their co-operation with Enertek International and key suppliers to provide gas cooking equipment throughout the period of neighbourhood, village and town trials during the next few years prior to volume production.

THE PRODUCTS - 100% HYDROGEN COOKING APPLIANCES

Hydrogen Hob

– Stoves ST SGH600CH2 Stainless steel hob



Hydrogen Built-In Oven and Grill

– Belling BEL BI70H2



Hydrogen Freestanding Cooker

– New World NW NH 600TSIDLmH2

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Each of the cooking appliances have already been certified for use in field trials and full certification (for serial production) will be achieved during the next few weeks.

PRODUCT FEATURES - (Standard on all models):

- User operation virtually identical to natural gas models
- Dimensions and performance identical to the natural gas equivalents
- Installation requirements straightforward and similar to natural gas models
- Flames visible in most lighting conditions but LED indicators added to confirm burner operation
- Zero carbon emissions
- Costs (when manufactured in volume) will be similar to natural gas equivalents
- Safety features added to comply with hydrogen standards (PAS 4444)



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

The UK domestic cooking market is relatively mature and therefore stable, with most homes possessing cooking appliances. The UK market for gas appliances is currently around 650,000 per annum with hobs accounting for the majority of sales.

Conversion of the gas supply to hydrogen offers continuity and minimal disruption for the householder, especially with the advent of hydrogen-ready appliances in the years preceding conversion of the supply to hydrogen. The market is driven by:

- Many consumers have a preference for cooking on gas
- The cost of gas is lower than the cost of electricity (and likely to remain so)
- Gas cooking offers instant, easily controllable heat