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From: Commercial
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Subject: Commercial Gas Appliances

REQUEST

I am contacting you from Environmental Resources Management (ERM). We are currently working on a project funded by the UK Government, Hy4Heat, looking at the potential transition to hydrogen in the gas distribution network as an alternative to natural gas.

The project has been split into several work packages, with our work being carried out on Work Package 5 (WP5). WP5 is set to determine the viability of 100% hydrogen being fed as a fuel gas to gas appliances in the commercial sector (dominated by heating and catering appliances).

To establish the scope of the task at hand, we are in the process of characterising the current market – including making an estimate of the installed base of commercial gas appliances in the UK.

As means of assisting in this stage of the project, we are looking to gather data from NHS Trusts on the gas appliances installed across their facilities. The health sector consumes more natural gas than any other as means of powering heating, so to acquire this information would aid our research considerably.

Below is detailed the information we are requesting – while it may not be available in such depth, any data that can be provided will be of great assistance.

We are seeking a list or database of installed gas appliances, categorised into groups such as:

Heating

- **Boilers** - condensing/non-condensing, wet central heating systems
- **Water Heaters** - instantaneous, continuous, storage water heaters
- **Dry (Warm Air) Convection Systems** – direct/indirect air heaters
- **Radiant Heaters** – luminous (plaque) and non-luminous (tube)

Catering

- **Ovens** – deck ovens, pizza ovens, rack ovens
- **Steamers & Combi Ovens** – combi-steam ovens, atmospheric steamers
- **Hobs & Grills** – hobs, grills, griddles, barbecues, salamander grills, rotisserie grills

- **Water & Oil Heaters** – fryers, pasta/noodle boilers, bratt pans

For each appliance, it would be useful to know the output rating, in either kW or BTU/hr, and the installed date.

We are also looking to know the facility/facility type in which each appliance is found, for example:

- **General acute hospital**
- **Specialist hospital**
- **Mixed service hospital**
- **Mental Health**
- **Learning Disabilities**
- **Community hospital**
- **Support facilities**
- **Hospitality** – cafes, restaurants
- **Other non-clinical space** – medical record storage, offices, retail sales area

We wish to obtain as recent data as is possible – ideally from 2018 or 2019. However, any data from proceeding years which could present market trends would also be favourable.

RESPONSE

We are seeking a list or database of installed gas appliances, categorised into groups

At St Helens and Knowsley Teaching Hospitals NHS Trust we have the following heating and catering equipment:-

Whiston Hospital

Heating – all within the boiler house

4500kW Viessmann Vitomax 200 boilers X2

Combined Heat & Power -2700kW CHP unit X1

Catering – within the main hospital kitchen (provided by Medirest)

Gas hobs	X 1
Gas ovens	X 3
Steamers	X 3
Combi ovens	X 3
Grills	X 2
Fryers	X 3

Model and output specification unknown

ADL kitchens:

Oven/Grills – Stones600G - 4.9Kw	X3
Hob - Atag HG6 - 20.0 mbar	X2

St Helens Hospital

Heating – all within the boiler house

2200kW NEI Cochran Thermax Boiler X4

Catering – within the main hospital kitchen (provided by Medirest)

Gas hobs	X 2
Gas ovens	X 2
Gas double fryer	X 2
Hobs	X 1
Grills	X 1

Model and output specification unknown