



**ERA Technology Limited**

Cleeve Road, Leatherhead

Surrey KT22 7SA, UK

Web: [www.era.co.uk/rfa](http://www.era.co.uk/rfa)

Direct Dial: +44 (0) 1372 367221

Direct Fax: +44 (0) 1372 367359

Email: [paul.goodman@era.co.uk](mailto:paul.goodman@era.co.uk)

## **Lot 4 Stakeholders**

### **Industrial and laboratory furnaces and ovens study**

#### **Spreadsheet for industrial furnaces and ovens**

Under the terms of the EuP Framework Directive (2009/125/EC), we have been contracted by the European Commission to produce a study into the environmental performance of furnaces and ovens, with a view to the possibility of future EU regulation.

With this in mind, we are asking manufacturers, designers and installers of industrial furnaces and ovens to provide data on their performance, and have designed a spreadsheet to standardise the result of the data collection process. The attached document is a spreadsheet we should like you to complete as far as possible, and would like to have it returned by the end of the first week of October if possible. It does look a little daunting, but parts of it will not be applicable to your sector of the industry.

As industrial furnaces and ovens are extremely variable in size and capability, ranging from small hobby and lab ovens and kilns to giant steel and cement works and oil refineries, the approach used for previous eco-design studies would be impractical.

The approach we are considering is based on Japanese legislation for industrial furnaces that regulates the main performance parameters of fossil fuel combustion and electrically powered furnaces and ovens. For our study, we need data on all types and sizes; it is important that we consider as wide a range as possible as, should the Commission decide to regulate, they will need to avoid imposing requirements that are impossible to meet.

We are looking for information about a range of performance parameters related to the main sources of heat loss from furnaces and ovens; obviously only a selection of these will be applicable to each type of furnace or oven so you need only provide data that is relevant to the types you supply. You can provide data for a few examples of the main types of furnace or oven that you most frequently sell, we don't expect data for a large number of different designs.

We would also like to know the performance range of furnaces and ovens that are currently being sold in the EU; and their range of performance (best, average and worst); you may be aware of the range of performance of those of other manufacturers including the worst. We need to know the range of performance and so also the best that are being sold as well as what you think is probably an average performance.

We would also like to know what is achievable if cost were not a consideration and this we refer to as Best Available Technology (BAT). We will however be very interested to know what additional costs could be incurred, if BAT designs were to be manufactured and sold. This is important because the Commission are not permitted to introduce legislation that harms EU industry competitiveness.

---

In the spreadsheet attached to this email, the first tab is the “Read Me 1<sup>st</sup>” tab which offers instructions, explanations and definitions used; also asks for your name, company and contact details.

The second tab is for “Market Data”; this ideally should be estimates for the entire EU as far as you know, we understand that some of this may not be accurate, this is not a problem.

The following tabs are for “Fossil Fuel Combustion”, “Insulation Performance”, “Fuel to Air Ratio”, “Electric Power”, and “Drying Ovens”, please complete these with as many types and sizes or size ranges as possible and include any applicable performance parameter data.

If there is any additional information you think may be of interest and should be taken into consideration, please add it to the final tab “Additional Information”.

If there are any modifications you think would improve the spreadsheet, please do let me know.

Many thanks for your assistance, should you wish to enter into a Non-Disclosure Agreement with us, we would be happy to do so; or if you have any comments or queries, please contact the study team on the “Read Me 1<sup>st</sup>” tab.