



ENTRY CRITERIA AND GUIDELINES

8. RUSHLIGHT HYDROGEN AND FUEL CELLS AWARD

Award

Awarded to the most significant achievement towards the commercial development and exploitation of fuel cells or hydrogen.

Background

Hydrogen encompasses 70% of the mass of the universe and when it is burned in air, water is the only by-product. It therefore has the potential to be the ultimate long term global energy solution. If the hydrogen is sourced through a low carbon process, ie involving renewable energy or carbon capture and storage, then it can be one of the cleanest and most energy efficient fuel sources. According to a study by the Carbon Trust and the DTI in 2005, fuel cells have the potential to generate carbon savings in the UK of 0.87 to 1.74 m tonnes by 2020 (4 to 11.7% of the target set in the Energy White Paper). Fuel cell power plants reduce emissions compared with fossil-fueled alternatives by between 40% and 90% and solid oxide fuel cells can achieve up to 85% electrical efficiency in combined heat and power applications.

Entrants

This category is open to any organization that has developed a technology or an innovation that has advanced the development of hydrogen as a fuel or fuel cells as a power source.

Purpose of the award

The award is designed to celebrate and publicise the significant achievements made to date in developing hydrogen and fuel cells. It can inform the consumer about what is happening and so encourage the further development of and investment in the technologies so that the substantial potential to reduce carbon emissions drastically can be realised.

Specific criteria

The key criteria that the judges will be focusing on are:

1. The importance and novelty of the innovation in addressing a specific issue (/20)

2. The “cleverness” of the innovation, which may include either its simplicity or its complexity (/20)
3. The evaluation of the innovation: the bigger the problem that has been solved or the greater the technology advancement that has been made the better (/15)
4. Whether and how the innovation can be replicated, sold or multiplied to increase the beneficial effect for society (/15)
5. Evidence of the efficacy or effect of the innovation (/10)
6. The holistic impact of the innovation on the environment. (/20)

Entry form

The Entry Form has the following sections to be completed:

- **Summary:** This is where you set out a synopsis of what the process or technology is and does. This summary will be used as the descriptor should you be shortlisted
- **Project status:** This is where you explain the stage that the project, innovation or technology has reached.
- **Description:** Please set out under this heading as much detail as you can to make the technology development, innovation or process understood. You can include confidential and commercially sensitive information here and it will be treated as such, provided you mark it as being sensitive.
- **Innovative aspect:** This is where you explain the really clever bit. How have you addressed the problem or avoided the issue or organized the process? Again, please mark “commercially sensitive” or “confidential information” accordingly.
- **Benefits:** This is where the evaluation of the concept will be made. Please include in here as much evaluated detail of the benefits as possible. Examples include some sense of financial benefit, cost savings, price adjustments, expected or achieved sales effects, greenhouse gas emission reductions or other directly attributable benefits of the process or technology. Third party verified data is especially valuable.
- **IP ownership:** Set out here who owns what patents associated with the technology and clarify precisely the development that has been achieved by the applicant organization(s).
- **Additional information:** No form can cater for all eventualities and so this provides space for further explanation or details.

Lastly, if the form does not provide enough space or the questions are not directly relevant, then please send further material as an attachment to your entry email. Up to two attachments can be sent, each one no more than 5Mb in size.