



ENTRY CRITERIA AND GUIDELINES

10. RUSHLIGHT POWER GENERATION AND TRANSMISSION AWARD

Award

Awarded to the most significant engineering development or innovation that has improved the efficiency of energy conversion and/or transmission from fuel source to consumer in the electricity sector.

Background

The energy efficiency of power generation has improved steadily over the last decade through technological advances. Further improvements would increase the amount of energy created for the same amount of carbon emissions and would therefore contribute in the drive to reduce overall emissions now. Linked to the increase in renewable energy and combined heat and power plant, there has also been a focus on developing the lower voltage distribution grid for embedded or distributed generation and the development of offshore wind has created specific issues concerning not only distant connection but also balancing. The increase in complexity of our energy system has resulted in the need for an intelligent power network, including smart grid solutions and solutions to manage local and national networks.

Entrants

This category is open to any organization that has developed a technology or an innovation which has made a significant improvement in the thermal efficiency of power generation or a reduction in the transmission losses. The improvement can include a new process, design, materials used, configuration, equipment or smart control. This category is not intended for any form of renewable energy, transport system or vehicle.

Purpose of the award

The award is designed to celebrate and publicise the significant improvements made in the areas of power generation and transmission. It is also an opportunity to encourage further investment in an area which can deliver quick returns both for the organization involved and also for society as a whole.

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.