



For immediate release

3<sup>rd</sup> March 2005

***DTI awards project to Nanotecture and Hydrogen Solar under New and Renewable Energy programme .***

Nanotecture has been successful in the latest round of awards under the DTI's technology and strategy programme covering new and renewable energy technologies. In collaboration with Hydrogen Solar Ltd the DTI is supporting a £120K project (subject to contract) entitled "Engineering Porosity in Nanostructured Films for Hydrogen Generation".

The project could see a superior replacement to existing technology coming on to the market within two years.

This project aims to use Nanotecture's templated materials technology to improve the Tandem Solar Cell developed by Hydrogen Solar. The Tandem Cell generates high quality hydrogen from sunlight and water and is a carbon-free, renewable photovoltaic technology. At its heart is a porous, thin-film electrode that captures sunlight and, using an electrical voltage, decomposes water into hydrogen and oxygen.

By changing the nanostructure of the electrode to increase its porosity, improve its electronic structure and lower its electrical resistance the partners expect to improve the gas generation efficiency of this electrode.

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