



Dyesol DSC on Steel – Final Milestone Leapt

On 10th August 2011, the last 2 milestones were presented to the Welsh Government (WG) by the Dyesol - Tata team together with a short summary of the successful development of DSC on coil coated steel ('DSC on Steel').

The final milestones were:

- **Completed study of process capabilities** – a precursor to volume production, and
- **A comprehensive review of Intellectual Property relevant to DSC on metal strip** – demonstration of value generation from the £5M investment by the WG in the project.

Both technical milestones were approved and feedback from the WG was that the project had made an excellent contribution to science and technology in Wales. A major factor in their judgement was the technical progress made over the 3 year period and the commitment from both Tata and Dyesol to invest in employment opportunities in Wales, as reflected in the project resourcing, which has risen from 15 scientists and engineers at the start of the project, to 40 currently. Plans to increase resourcing to 50 this year were presented.

The WG re-iterated their support in facilitating the continuation of the DSC on Steel project, and indicated that Wales had already become a global centre of excellence for DSC, with the largest DSC product development facility in the world being located in Wales. Other comments were that the DSC project contributed significantly to indirect investment in associated research, development, test and evaluation projects (SBEC and SPECIFIC) which, in the view of the WG, in no small part arose from the successful establishment of the core capabilities in the DSC on Steel project. The joint project has been the flagship project that incubated the other projects in the field of Building Systems development, and those projects will provide core research and product evaluation services as the DSC on Steel project moves into industrial production.

Chris Moore, Project Manager for Dyesol commented: 'We are very proud of the achievements the team has made over the past three years. Starting from a core group of Dyesol experts from Australia we have built a team of the highest calibre in DSC science, technology and engineering. The cohesion, collaboration and camaraderie have been key elements to the undoubted success of the project.'

Dr Gavin Tulloch, Project Director added: 'We have leapt the key technical hurdles to bringing DSC steel building products to market fruition. Together with Tata, Dyesol has committed to the next phase of industrialisation here in Shotton. We congratulate the technical team from Dyesol and Tata on the achievement today and we are confident that we can bring home the commercial rewards from the outstanding opportunity, one that addresses markets of well over £100 Billion per annum. Now let's get on with the commercial opportunities.'

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The Technology – DYE SOLAR CELLS

DSC technology can best be described as ‘artificial photosynthesis’ using an electrolyte, a layer of titania (a pigment used in white paints and tooth paste) and ruthenium dye deposited on glass, metal or polymer substrates. Light striking the dye excites electrons which are absorbed by the titania to become an electric current many times stronger than that found in natural photosynthesis in plants. Compared to conventional silicon based photovoltaic technology, Dyesol’s technology has lower cost and embodied energy in manufacture, it produces electricity more efficiently even in low light conditions and can be directly incorporated into buildings by replacing conventional glass panels or metal sheets rather than taking up roof or extra land area.

The Company – DYESOL Limited

Dyesol, a global company headquartered in Australia, was founded to commercialize and supply 3rd generation solar technology - Dye Solar Cells (DSC). DSC uses a form of artificial photosynthesis to capture energy like a leaf, using a dye analogous to chlorophyll. Dyesol provides photovoltaic functionality to mainstream products, by developing and supplying materials and technology to global partners which have routes to market for solar enabled components, including building products such as glass and steel for facades and roofs. The company is listed on the Australian Stock Exchange (DYE), the German Open Market, and is trading on the OTCBB (DYSOY) through its depositary BNY Mellon.

More details about the company and the technology can be found at: <http://www.dyesol.com>