



Stability key to commercialising solar

The environmentally friendly solar paint featured on the ABC's New Inventors recently is significantly different to Dyesol's Dye Solar Cell (DSC) technology, the key difference being Dyesol's proven stability which is absolutely essential for the successful commercialisation of solar products.

According to Dyesol's executive chairman Mr Richard Caldwell, "Dyesol is very familiar with Professor Dastoor's research and congratulates him on this announcement. And like all science, this development is the result of many years of effort and commitment.

"We are being asked what is the main difference between Prof. Dastoor's polymer cells and Dyesol's DSC? It is the polymer cells' lack of stability. In fact, most of our commercialisation partners, including Corus which is the world's fifth largest steel producer and Pilkington which is owned by one of the largest global manufacturers of glass and glazing products, did consider polymers but choose DSC because of its proven 20 year track record in stability.

"Dyesol is the world leader in the development of DSC materials and technologies so taking this ground breaking technology out of the laboratory and taking it into the community remains our priority," Mr Caldwell explained.

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Note to editors

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 is located in Queanbeyan NSW (near Canberra) and in August 2005 was listed on the Australian Stock Exchange (ASX Code 'DYE'). Dyesol manufactures and supplies a range of dye solar cell products comprising equipment, chemicals, materials, components and related services to researchers and manufacturers of DSC. The Company is playing a key role in taking this third generation solar technology out of the laboratory and into the community.

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