

Dyesol Successful In £800,000 EPSRC Grant Application

Queanbeyan, 25 August 2016 – Dyesol Limited (ASX: DYE) and its collaboration partners have been awarded an approximate £800,000 grant from the Engineering and Physical Sciences Research Council (EPSRC). The EPSRC is the UK's main agency for funding research in engineering and the physical sciences. The principal grant applicants are Dyesol (UK), Cristal and The University of York. The successful grant application is titled, **Optimisation of charge carrier mobility in nanoporous metal oxide films**.

The background to this proposed research is the recent joint discovery by Dyesol and Cristal that halide modified titania (TiO₂) surfaces in Perovskite Solar Cell (PSC) devices can provide a significant performance uplift. In early experiments, this translated into improved device performance of 2% – 3% (gross) in conversion efficiency and is, therefore, considered potentially important in industrialisation of the technology, which Dyesol is leading globally.

Further internal investigation under this grant will now be undertaken to better understand the chemistry of the improved electron capture and transport. Translation into larger commercial photovoltaic devices is, of course, Dyesol's motivation for detailed scientific investigation. It is still too early to fully determine the full extent of the value of this discovery to Dyesol.

While not immediately necessary to progress Dyesol's industrialisation plans, such as the Major Area Demo (MAD), it is expected that outputs from work such as this, and other R&D projects, will feed Dyesol's generational product improvement pipeline in the future. Dyesol seeks to make optimal use of funding arrangements such as grants in the various jurisdictions in which it operates, in order to better leverage future opportunities without impacting cash flow in the present. Further, Dyesol is pleased to work with responsive and leading-edge researchers in areas important to advancement of the core technology upon which the Company relies, in order to harvest a strong base of innovation to build future value in our commercialisation endeavours.

Dyesol and Cristal, a subsidiary of Tasnee, recently filed a provisional patent to commence protection of intellectual property related to this discovery.

For further detail, please refer to the internet link below:

<http://gow.epsrc.ac.uk/NGBOViewGrant.aspx?GrantRef=EP/P006051/1>

About DYESOL LIMITED

Dyesol is a global leader in the development and commercialisation of Perovskite Solar Cell (PSC) technology – 3rd Generation photovoltaic technology that can be applied to glass, metal, polymers or cement. Dyesol manufactures and supplies high performance materials and is focussed on the successful commercialisation of PSC photovoltaics. It is a publicly listed company: Australian Securities Exchange ASX ([DYE](#)) and German Open Market ([D5I](#)). Learn more at www.dyesol.com and subscribe to our mailing list in English and German.

About PEROVSKITE SOLAR CELL TECHNOLOGY

Perovskite Solar Cell (PSC) technology is a photovoltaic (PV) technology based on applying low cost materials in a series of ultrathin layers encapsulated by protective sealants. Dyesol's technology has lower embodied energy in manufacture, produces stable electrical current, and has a strong competitive advantage in low light conditions relative to incumbent PV technologies. This technology can be directly integrated into the building envelope to achieve highly competitive building integrated photovoltaics (BIPV).

The key material layers include a hybrid organic-inorganic halide-based perovskite light absorber and nano-porous metal oxide of titanium oxide. Light striking the absorber promotes an electron into the excited state, followed by a rapid electron transfer and collection by the titania layer. Meanwhile, the remaining positive charge is transferred to the opposite electrode, thereby generating an electrical current.

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