

Dyesol receives ARENA support for Perovskite Solar Cells (PSC)

Queanbeyan, 01 October 2015 – Leading Australian solar innovation company Dyesol has reached agreement with the Australian Renewable Energy Agency (ARENA) for funding support of \$449,000 to progress its Perovskite Solar Cell (PSC) technology towards scalable manufacture and commercialisation.

The milestone-based short term project is due to be completed in the first quarter of next year, with Dyesol committing to achieve key performance targets relating to both efficiency and durability of its PSC technology. Dyesol's Chief Technical Officer, Dr Damion Milliken, said these targets were selected to demonstrate the technology-readiness of PSC for further commercially focused scale-up and development.

"We are delighted to have reached this agreement with ARENA and look forward to an active and collaborative future for PSC industrialisation in Australia," said Dr Milliken.

He continued, "This project is about capacity building in the Australian PSC space, where world-leading expertise exists in both academia and industry.

ARENA's support will be invaluable in assisting the commercialisation of this rapidly emerging disruptive PV technology and ensuring Australia remains at the forefront of this development."

There is burgeoning interest in perovskites as a 3rd generation solar technology due to its low cost, versatility and ability to perform in low-light conditions.

Dyesol is confident the agreement with ARENA will help accelerate commercialisation of PSC technology in Australia and lead to the development of processes and module fabrication techniques required for the assembly of larger scale, durable modules. In 2016, Dyesol will commence its Major Area Demonstration prototype phase of development. This, in turn, will be a prerequisite to pilot scale production.

"Dyesol's planned future pilot scale production facility will enable the validation of the selected manufacturing processes, material sets and resultant product conformity for larger module designs in an industrially relevant, semi-automated manufacturing operation," said Dr Milliken.

ARENA CEO Ivor Frischknecht congratulated Dyesol for its progress to date, adding he was hopeful the agreement announced today would help the company cement its international leadership position in the PSC field.

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About Dyesol Limited

Dyesol is a renewable energy supplier and leader in 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 focused on the successful commercialisation PSC photovoltaics. It is a publicly listed company: Australian Securities Exchange ASX ([DYE](#)), 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 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.

About ARENA (Australian Renewable Energy Agency)

ARENA was established by the Australian Government to make renewable energy technologies more affordable and increase the amount of renewable energy used in Australia. ARENA invests in renewable energy projects, supports research and development activities, boosts job creation and industry development, and increases knowledge about renewable energy. ARENA is currently supporting more than 200 projects and is actively seeking new projects to support.

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