



ClearVue<sup>PV</sup>

ASX Announcement – 13 March 2019

ASX Release | ClearVue Technologies Limited (ASX: CPV)

## ClearVue signs Research Agreement to explore Next Generation of ClearVue Technology

### Highlights

- ClearVue signs 12 month Research Agreement with Edith Cowan University
- Research Agreement to look at development and scaling for commercialisation of all inorganic micro-patterned clear thin film solar cells

**13 March 2019:** Smart building materials company ClearVue Technologies Limited (ASX:CPV) ("**ClearVue**" or "**the Company**") is pleased to announce that it has signed a new Research Agreement with Edith Cowan University (**ECU**).

Under the terms of the binding agreement, ECU will lead the theoretical and experimental investigation of micro-patterned clear thin film solar cells, and the methods for their fabrication including outdoor experiments and full prototype characterisation in different weather conditions and for product scaling. The research will build upon ClearVue's existing intellectual property in the area of all-inorganic micro-patterned clear thin film solar cells. ECU's services under the agreement are to be provided by Professor Kamal Alameh. The research project is anticipated to take approximately 12 months from the date of signing.

If the research project is successful ClearVue would seek to integrate this technology with its existing technology and products but also to offer it as a stand-alone solution for applications where the current technology and product may be difficult to easily apply – for example automotive windows and sunroofs.

Commenting on the Research Agreement, Executive Chairman Victor Rosenberg said:

*"This new research project with ECU looks to expand on early research done a few years ago by ClearVue and ECU to explore development of a different approach to our clear solar glass – this technology breaks away from our existing technology to explore integration of solar PV media onto the glass surface itself instead of the incorporation of solar cells at the edge. Our hope is that this new approach can be used in combination with our existing technology, and the output from our other research programs, to improve overall output but also may be used stand-alone for specific application areas such as in automotive. The ClearVue and ECU teams are all looking forward to seeing the outcome of this commercially focused research project."*

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Commenting on the Research Agreement, Professor Kamal Alameh has said:

*“This research and the new technology that will result from it is based around micro-scale inorganic solar cells covering the entire glass area, which are invisible to the naked eye.*

*The research hopes to demonstrate a new ClearVue PV clear glass panel demonstrating several attractive features, including increased output power density, reduced glass weight when compared to the current ClearVue technology and products, improved scalability and low fabrication cost.*

*The new R&D project with ClearVue will have three phases - focusing on the development of a small-scale (0.3mx0.3m), medium-scale (0.3mx0.6m) and large-scale (1.2mx0.6m) prototypes.*

*The development of larger panel sizes will continue after the successful demonstration of the above-mentioned prototypes.”*

**For further information, please contact:**

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**About ClearVue Technologies Limited**

ClearVue Technologies Limited (ASX: CPV) is an Australian technology company that operates in the Building Integrated Photovoltaic (BPIV) sector which involves the integration of solar technology into building and agricultural industries, specifically glass and building surfaces, to provide renewable energy. ClearVue has developed advanced glass technology that aims to preserve glass transparency to maintain building aesthetics whilst generating electricity.

Solar PV cells are incorporated around the edges of an Insulated Glass Unit (IGU) used in windows and the lamination interlayer between the glass in the IGU incorporates ClearVue's patented proprietary nano and micro particles, as well as its spectral selective coating on the rear external surface of the IGU.

ClearVue's window technology has application for use in the building and construction and agricultural industries (amongst others).

ClearVue has worked closely with leading experts from the Electron Science Research Institute, Edith Cowan University (ECU) in Perth, Western Australia to develop the technology.

To learn more please visit: [www.clearvuepv.com](http://www.clearvuepv.com)

### **About Edith Cowan University**

ECU has more than 30,000 undergraduate and postgraduate students and annually welcomes close to 6,000 international students, originating from more than 100 countries.

ECU has eight Schools collectively delivering more than 250 diverse courses across Medical & Health Sciences, Engineering, Education, Arts & Humanities, Business & Law, Nursing & Midwifery, Science and the Western Australian Academy of Performing Arts.

Courses are offered on our three campuses – Joondalup and Mount Lawley in metropolitan Perth and the South West Campus at Bunbury, 200km south of the capital city. ECU also offers a comprehensive suite of online study options.

ECU incorporates the world-renowned Western Australian Academy of Performing Arts, the oldest and most popular School of Education in Western Australia, the largest Nursing program in Western Australia, and the Kurongkurl Katitjin Centre for Australian Indigenous Education and Research.



### **About Professor Kamal Alameh**

Professor Alameh is the Director of the Electron Science Research Institute, Edith Cowan University. He is a world-renowned authority in optics and nano-photonics and an adjunct professor at each of: Gwangju Institute of Science and Technology (GIST) Korea; South Wales University, Wales (UK); and KSR India. He is also as a Guest Professor at Southeast University, Nanjing, China and Minzu University, Beijing, China. Kamal has a PhD in Engineering (Photonics), Masters of Engineering (Photonics). Professor Alameh has published over 400 peer reviewed journal and conference papers including three book chapters. Professor Alameh is also an Advisory Board Member to ClearVue.

[www.ecu.edu.au](http://www.ecu.edu.au)

### **Forward Looking Statements**

Statements contained in this release, particularly those regarding possible or assumed future performance, revenue, costs, dividends, production levels or rates, prices or potential growth of ClearVue Technologies Limited, are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors.