

ASX Release | ClearVue Technologies Limited (ASX: CPV)

Market Update

25 February 2021: Smart building materials company ClearVue Technologies Limited (ASX:CPV) (**ClearVue** or the **Company**) is pleased to have provided its Consolidated Interim Financial Report for the half year ended 31 December 2020 today and the following market update since its last Quarterly Update (announced 29 January 2021).

Market Update

Highlights

- Glazing of PV IGUs at Murdoch University Greenhouse Completed
- ClearVue PV IGU's delivered for Greenhouse in Japan
- Progress continues on Jinmao relationship and villa in Hebei province China
- ATCO Mining Hut ('Donga') Trial at Murdoch University
- New Research Program in Quantum Dots

Operational Update

Showcase Projects Update

- **CRC-P Funded Greenhouse – Murdoch University**

Further to the Company's [Quarterly Update](#) the Company is pleased to confirm that glazing of its solar PV IGUs has now been completed on the greenhouse with testing and commissioning of the greenhouse is to be completed in the next few weeks.

As previously announced, the plant science trials that are to be conducted in the greenhouse are expected to start once the greenhouse is operational but in conjunction with growing seasons and cycles (expected at end of March, early April).



Three versions of ClearVue's PV glazing installed onto rooms 2,3 and 4 of ClearVue's solar greenhouse at Murdoch University, Western Australia. Room 1—a trial 'control' room (far left) showing single pane glazing only.



Views through the ClearVue PV IGUs at the greenhouse.

- **Villa at Hebei Province China - Jinmao Green Building Technology Co. Ltd**

Further to the Company’s Quarterly Update the Company continues to progress negotiations on a formal Distribution Agreement with Beijing Jinmao Green Building Technology Co. Ltd¹.

The works necessary to complete the Jinmao demonstration villa at Hebei Province in China including the finishing works, interior fit-out and commissioning of the villa have however continued to be delayed due to the COVID-19 outbreak in that region.

Greenhouse at Fujisan Winery, Japan

Further to the Company’s Quarterly Update the Company is pleased to confirm that ClearVue’s PV IGU glazing modules have now been delivered to site in Japan at the Fujisan Winery in the key tourist region of the Asagiri Plateau at the southwest base of Mt Fuji. Construction of the winery greenhouse and installation of the ClearVue PV IGUs into that structure is currently delayed primarily due to the COVID pandemic but is expected to commence in the coming months.



ClearVue PV IGU glazing units delivered to site at Fujisan Winery, Asagiri Plateau, base of Mt Fuji, Japan in anticipation of installation.

Murdoch University / ATCO Mining Hut (‘Donga’) Trial

The Company is pleased to announce that ClearVue has recently supplied its solar glass windows to Murdoch University for a research project into near zero energy mining huts (or “dongas”) for mine sites showing improved occupant comfort.

The research project is a collaboration with Murdoch University researchers in the Discipline of Engineering & Energy and several local industry participants including mining huts supplier ATCO (see: <https://www.atco.com/en-au/for-business/modular-structures.html>) and existing ClearVue collaboration partner Mirreco (www.mirreco.com).

For the purposes of the project, ClearVue PV has supplied two of its solar glass IGUs that have now been installed into a prototype transportable mining hut/donga located on land at Murdoch University. The mining hut has been supplied by ATCO and repurposed for the purposes of the trial. Mirreco has supplied its hemp construction and insulation panels to provide insulation to the structure.

¹ a subsidiary of China Jinmao Holdings Group Limited (China Jinmao) a company listed on the Hong Kong Stock Exchange itself a subsidiary of China state-owned enterprise Sinochem Group Co. Ltd. China (109th place in the 2020 List of Fortune 500 Global companies).

This project is an initiative with global mining companies, who are setting targets of net zero carbon emissions across their operations by 2050.

ClearVuePV's solar windows will be used in conjunction with a range of other sustainable, low carbon building products and technologies including Mirreco's Hemp CAST® hemp-based building and insulation panels aimed to increase energy efficiency and thermal comfort for occupants, particularly fly-in fly-out mine site workers.

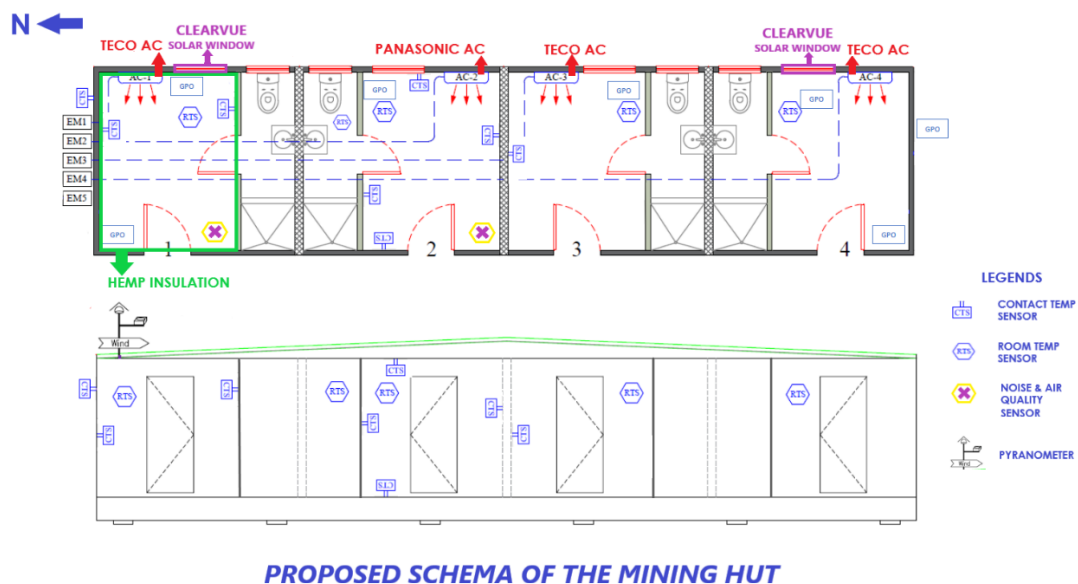
Data collected from the mining hut's monitoring systems will be used to assess energy consumption and thermal comfort levels, which will then be used to validate a virtual building model able to simulate a mine-site based in the harsh conditions of the far north of Western Australia.

ClearVue's PV windows will, in addition to providing high insulative performance, be used to supply power to USB mobile phone chargers, LED lighting, and sensors with the captured data to be delivered via IoT and cloud technology.

The company looks forward to updating the market once the trial commences.

For more information on the research project see Murdoch's announcement at:

<https://www.murdoch.edu.au/news/articles/murdoch-research-into-near-zero-energy-dongas-for-mine-sites>





ATCO mining hut being retrofitted with ClearVue PV IGUs and Mirreco's Hemp panel insulation – view is through the installed IGU panels.

Research Program into Quantum Dots

The Company refers to its announcement of 20 December 2018 when it announced a Research Agreement with the School of Photovoltaic and Energy Engineering at the University of New South Wales to explore development of new luminescent solar concentrator designs using quantum dots. The Company advises that this research program completed and was successful in demonstrating a path to how custom designed transparent quantum dots could improve the power efficiency of the ClearVue PV IGU product.

ClearVue has recently commenced further investigations into the development, use and integration of quantum dots into its technology stack and has commenced negotiations with the ARC Centre of Exciton Science (<https://excitonscience.com/>), RMIT University and the University of Melbourne to develop a research plan and protocol to further the research works already completed. The company looks forward to updating the market on its progress in this regard in the future.

Authorised by the Board of ClearVue Technologies Limited.

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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 surfaces, specifically glass and building façades, to provide renewable energy. ClearVue has developed advanced glass technology that aims to preserve glass transparency to maintain building aesthetics whilst generating electricity.

ClearVue's electricity generating glazing technology is strategically positioned to compliment and make more compelling, the increased use of energy-efficient windows now being regulated in response to global climate change and energy efficiency goals.

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 spectrally 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

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.