



ClearVue^{PV}

CLEARVUE TECHNOLOGIES LIMITED



DGWA Client Luncheon ClearVue Technologies Handout

9th November 2023

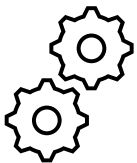
ENERGY EFFICIENT | ENERGY GENERATING | CLEAR GLASS

ClearVue Technologies At A Glance

We generate power from clear glass



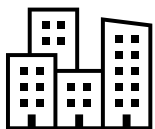
Green energy imperative drives demand



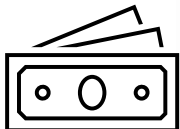
Highly scalable business leveraging existing infrastructure



Commercially viable clear solar glass



Elegant solution to meet net zero building obligations



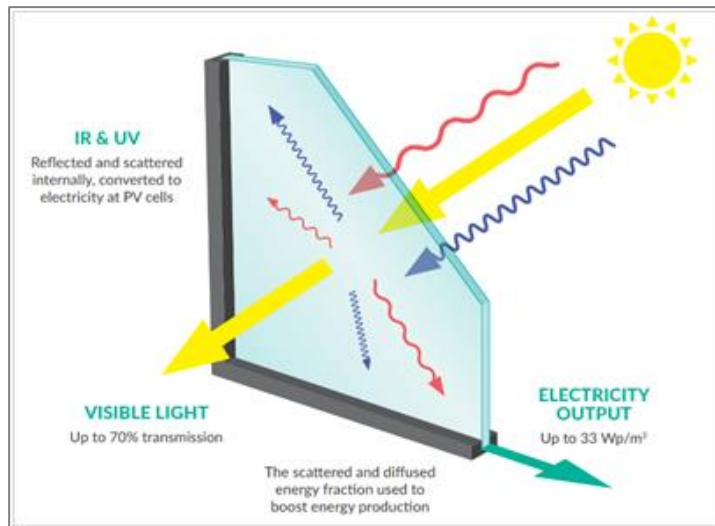
Clear financial and Carbon payback



Global market opportunities

ClearVue – How it Works

ClearVue's patented technology sits within an activated interlayer between two panes of glass. The schematic illustrates the process in which ClearVue is able to generate the electricity as summarised below:



- Power generation up to 30 Wp/m² peak and provides high solar control benefit.
- Visible light (T_{vis}) passes through the glass “up to 70% VLT”.
- Micro & nanoparticles interact with ultraviolet (UV) radiation, which is down-converted to longer wavelengths. Light is then scattered and reflected to the edges of the glass.
- Unwanted wavelengths of UV and Infrared (IR) are removed for power generation, allowing maximum daylighting from the visible into the building to reduce the need for artificial lighting.
- Photovoltaic (PV) cells at the edge of the glass collect photons, producing electricity.
- The electricity collected is either directed to a battery solution or used directly on-site as the energy is generated.

A key advantage of the ClearVue technology is that, unlike typical solar panels used for solar farms or residential roof applications that require the solar panel's direct exposure to the sun. ClearVue operates at a 90-degree angle, making ClearVue ideal for facades, greenhouses and curtain walls.



BCA Ref No.: SKY180822_Rev1

Date of Report: 28th September 2023

Control Cell: Green Platinum Certified
Double glazed low-e window

Independent Tests Deliver Compelling Results

ClearVue has completed testing with the Singapore Building and Construction Authority (BCA) through its Skylab facility, which conducted comparative testing of ClearVue's second-generation photovoltaic insulated glazing units system and testing of its spandrel Solution.

The BCA found that ClearVue's high energy output clear solar glass technology Gen-2 PV IGUs reduced the cooling load by 22.8% and overall energy savings by 7.5% after accounting for energy generation. It also improved thermal comfort for building occupants 96.1% of the time and reduce imperceptible glare by 75.2%. The summary of the test results is as follows:

- **22.8% reduction in cooling** and **7.5% overall energy savings** after accounting for energy generation (Gen-2 IGUs only)
- 71% overall energy savings achieved with the addition of ClearVue's recently announced Spandrel Solution
- Improved thermal comfort for building occupants
- Improved in imperceptible
- Significant carbon benefits

Test to be undertaken - Fire

ClearVue is expecting to complete fire testing of IGU by early 2024 calendar year.

Why Do We Believe in Our Success?

BUSINESS DERISKED

- Lower commercialisation risk via license business model. Brings scale and speed to commercialisation.
- Proven mass scale production within existing fabrication equipment.
- Independently verified performance.
- Industry-experienced leadership.
- Strong patented protection.
- Growing global pipeline of projects and license partners.

DRIVERS OF GROWTH

ClearVue operates in a “quasi” mandated change environment that promotes the adoption of ClearVue technology, where:

- Global policy settings require a move to net zero buildings.
- Owners and investors of buildings require a solution to meet policy settings and ESG obligations and expectations.
- Change in buyer behaviour. Consumers are demanding environmentally aware solutions.

SCALABLE BUSINESS MODEL

License business model delivers Multiple Revenue Streams including:

- Licensee Fees
- Margin on IP Sold
- Royalty per Square Meter Sold

ClearVue will not require an excessive balance sheet for the investment in Plant and equipment

Will not require a large global headcount.

CLEARVUE OPERATES IN HIGH GROWTH MARKETS

The global market for Building Integrated Photovoltaics (BiPV) is projected to reach **US\$83.3 Billion by 2030**, growing at a **CAGR of 21.4%** over the analysis period 2022-2030.

Source: Building Integrated Photovoltaics (BiPV) – global Strategic Business Report. Nov 2023, research & Markets. The worlds Largest Market research Store.

ClearVue in Europe

92%

Of Europeans agree that greenhouse gas emissions should be reduced to make the EU climate neutral by 2050

Source: European Commission – Citizen support for climate action, 2021 Survey

The 2020 European Green Deal formalised the European Union’s commitment to becoming climate neutral by 2050. This policy initiative is designed to transform the EU into a modern, resource-efficient and competitive economy, ensuring:

- no net emissions of greenhouse gases by 2050
- economic growth decoupled from resource use
- no person and no place left behind

The European Commission has adopted a set of proposals to make the EU's climate, energy, transport and taxation policies fit for reducing net greenhouse gas emissions by at least 55% by 2030, compared to 1990 levels.

Achieving the Green Deal objectives will be challenging as a large portion of countries within the European Union have limited renewable energy options due to the lack of available land, suitable wind and solar resources.

Attribution of the environmental footprint of an economy identifies the built environment is responsible for about 42% of annual global CO2 emissions. Of those total emissions, building operations are responsible for approximately 27% annually, while the embodied carbon of just four building and infrastructure materials – cement, iron, steel, and aluminum – are responsible for an additional 15% annually.

Understanding the operating environment in which most European countries operate, the most likely scenario available to government and industry to meet the Green Deal policy objectives is the aggressive adoption of innovative green technologies.

In the absence of any obvious replacement for glass in the building construction sector. ClearVue has the potential to play an important role in delivering a practical economy wide solution to meet the European net zero policy objectives. Through clear, energy producing glass.

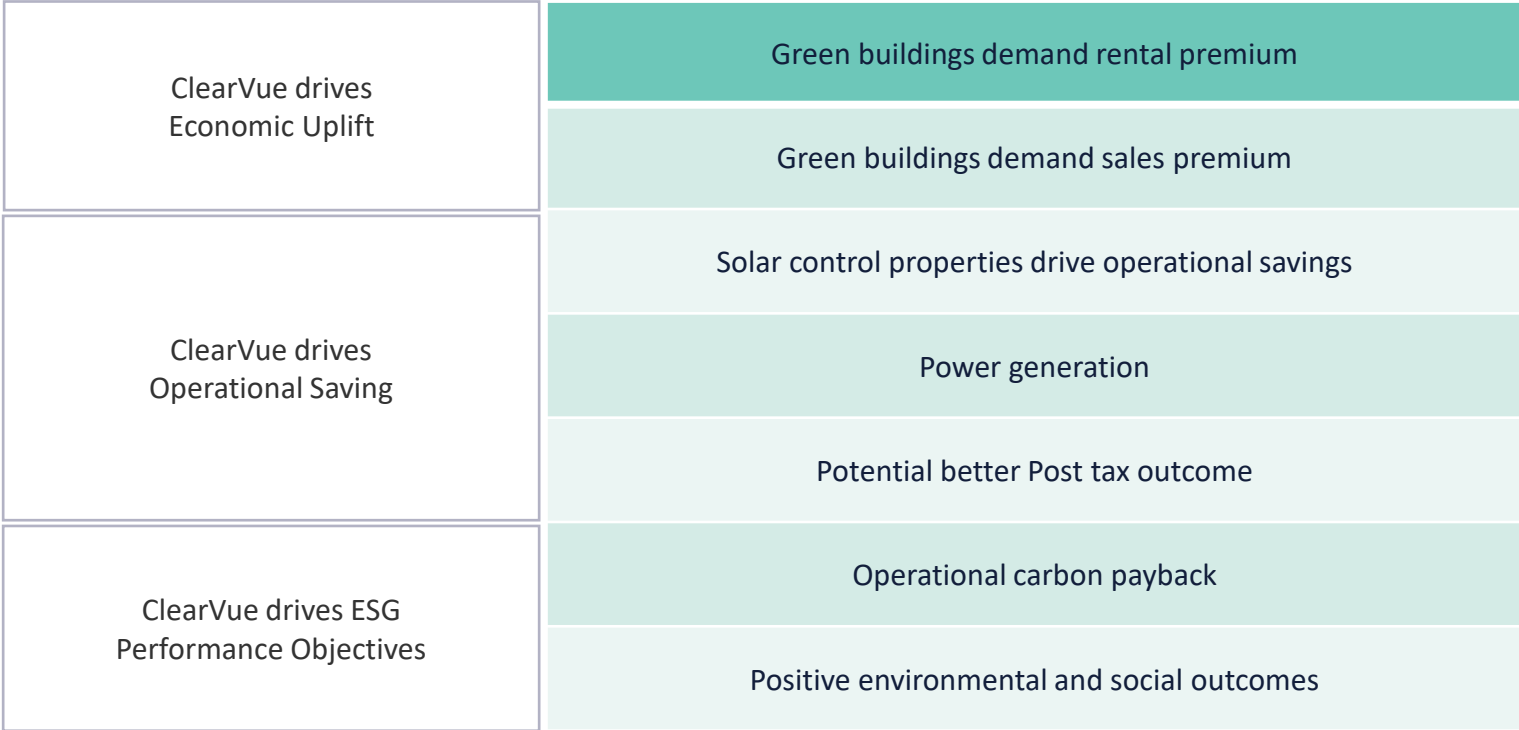
Source: https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/european-green-deal_en

The ClearVue Value Stack

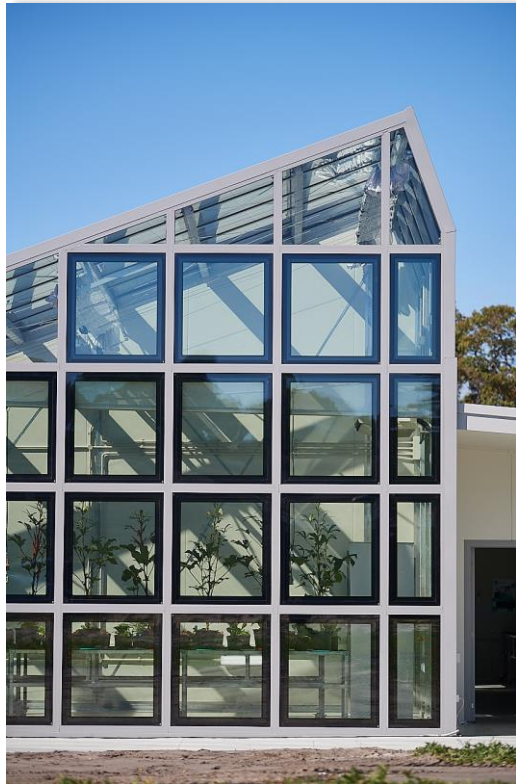
The ClearVue Value Stack represents the totality of the value benefit of incorporating ClearVue technology. ClearVue delivers quantifiable economic, carbon and social benefits as summarised below:

The built environment is responsible for about 42% of annual global CO2 emissions. Of those total emissions, building operations are responsible for approximately 27% annually.

Source: <https://architecture2030.org/why-the-built-environment/>



ClearVue Technologies Ltd – About Us



Demonstration site at Murdoch University, Perth Western Australia where ClearVue glass delivers over 45% of the greenhouse energy needs.

At ClearVue Technologies Ltd. (“ClearVue”, “Company”), we generate autonomous electricity from a transparent window, allowing various applications to be powered directly by the window.

ClearVue is an Australian Stock Exchange (ASX: CPV) listed company with globally patented technology and a presence in Europe, Asia and the United States. ClearVue operates in large growing markets and has a clear commercialisation path identifying short, medium, and long-term revenue recognition opportunities within our addressable markets.

The ClearVue addressable market is broad in scope and includes applications such as building façades through to public infrastructure.

Founded in Perth, Western Australia. The Company self-funded the initial Research and Development in partnership with Edith Cowan University. Prototype success led to the Company’s first significant liquidity event via the listing of the Company on the ASX in May 2018.

As a technology company, ClearVue has expanded its Research and Development relationships with multiple universities and has formed strategic partnerships where ClearVue’s Intellectual Property can accelerate the speed to market.

ClearVue operates in a global market and addresses, in part, the path to net zero buildings as the world seeks to decarbonise by 2050.

ClearVue Technologies Ltd – Our Board



Victor Rosenberg
Non-Executive Chairman & Founder
25 years in glass industry

Mr Rosenberg is a serial entrepreneur, recognized globally for his contributions to glass industry. Extensive business experience in senior management and sales over ~50 years.



Martin Deil
Chief Executive Officer
22+ years in glass industry

Mr Deil has 22+ years in various senior management roles of increasing responsibility including as CEO, Deputy CEO and COO within the Permasteelisa Group in different locations globally.



Jamie Lyford
Executive Director
28 years in commercial and IP law

Mr Lyford is an IP, technology, commercial and licensing lawyer with 28 years' experience at local, national and international law firms, BHP and global IT company ATOS.



Gerd Hoenicke
Non-Executive Director
35+ years in the global façade industry

Mr Hoenicke has worked as a CEO, a technical director, and a consultant for various internationally recognised façade companies (including Schneider, Seele and Schuco).



Chuck Mowrey
Non-Executive Director
5 decades in commercial glass & glazing

Mr Mowrey is current CEO of 8G Solutions, a leading U.S. contract glazier. He has over 50 years of experience in the commercial glass and glazing industries.

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