



ClearVue<sup>PV</sup>

CLEARVUE TECHNOLOGIES LIMITED

# Investor Presentation

ENERGY EFFICIENT | ENERGY GENERATING | CLEAR GLASS

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# Martin Deil

- Façade industry background
  - 30+ years in the international façade and architectural envelopes industry
- Recently the CEO of Permasteelisa UK, managing 100+ staff, and delivering annual revenues of AUD\$285 million for a global company;
- Strong focus on the interface between R&D/Design to project implementation including comprehensive expertise with performance and product specifications;
- Development and implementation of strategic plans and processes including restructuring in process-orientated organizational structures.



# How we are set for success

## Best Product

10+ years R&D  
Gen 2 ClearVue glass  
Integrated Smart Façade

## The Team

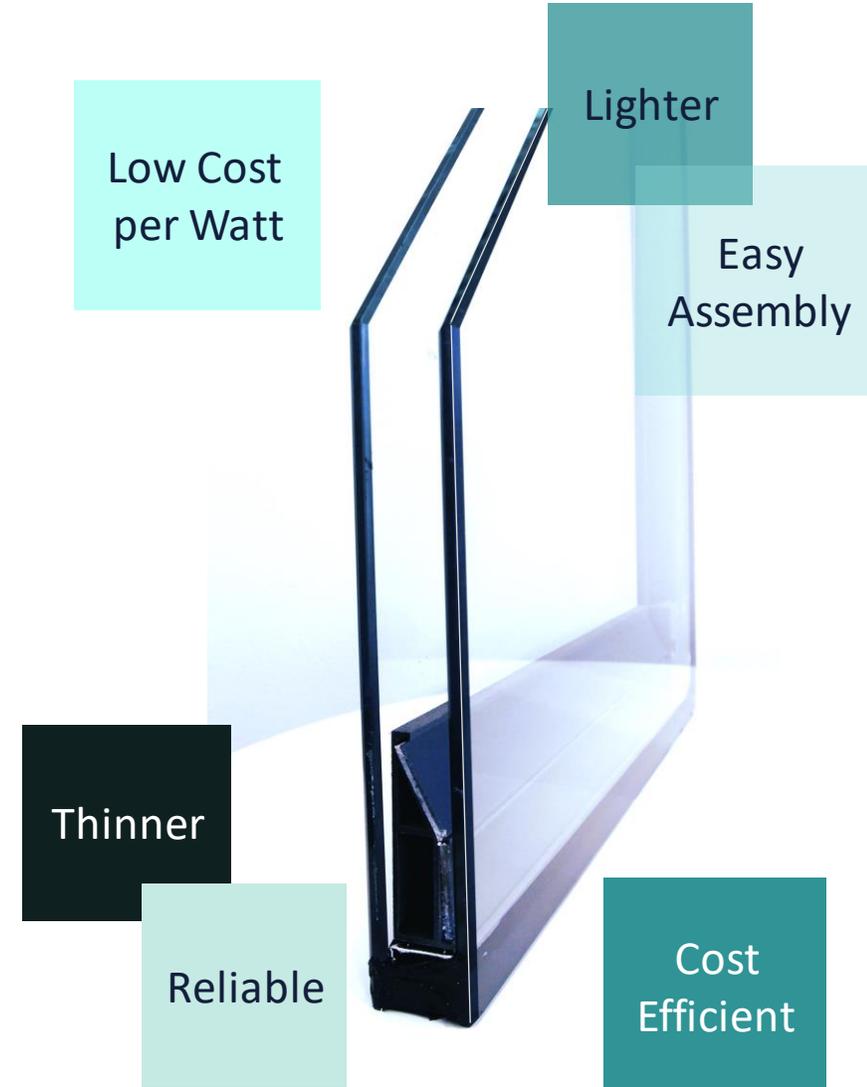
Commercial  
Opportunity



# Second Generation ClearVuePV Glass

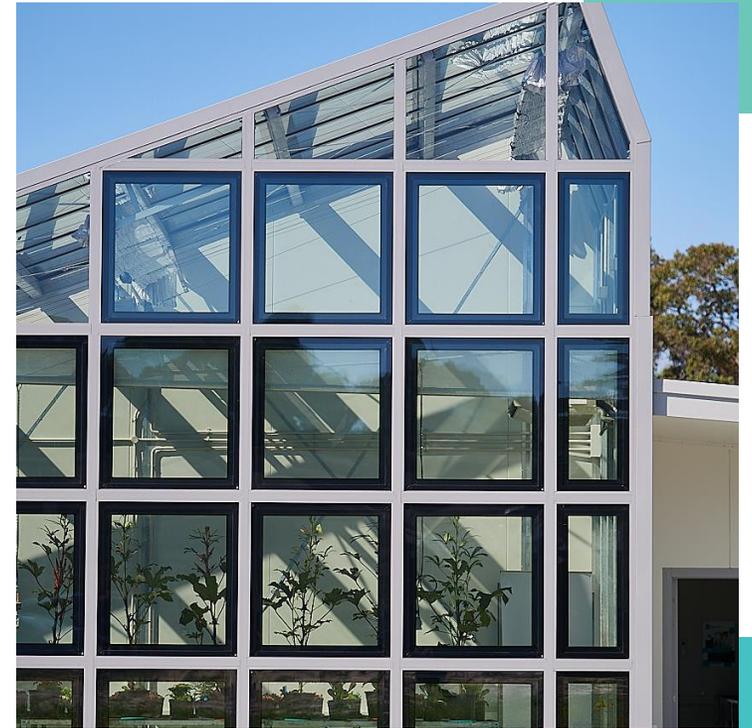


- ↓ Reduced embedded carbon (30%)
- ↓ Double-glazed IGU is 48.5% thinner
- ↓ 40% lighter - up to 20kg per square meter
- ↓ IGU assembly labor time by 90% with consequent cost savings and increased production outputs
- ↓ Cost per watt down by over 70% when compared to previous generation clear vision glass
  - Solar strips and connections are **protected**
  - An IGU assembly process that allows **seamless integration** with standard IGU assembly production lines



# A New Range of ClearVue Products

## GREENHOUSES



## SIGNAGE & INFRASTRUCTURE



## ENVELOPE SOLUTION



# The ClearVue Board: Industry-Aligned Global Leadership



**Victor Rosenberg**  
Dip Pharm, MPS (SA)

Non-Executive  
Chairman & Founder  
25 years glass industry



Serial entrepreneur, recognized globally for his contributions to glass industry. Extensive business experience in senior management and sales over ~50 years.



**Gerd Hoenicke**  
BEng Fac

Non-Exec Director  
35+ yrs in the global  
façade industry



Worked at internationally recognised façade companies (Schneider, Seele and Schuco) and has an extensive portfolio of projects. Gerd has a consultancy business and works with architects and engineers on major projects in the US and Europe.



**Chuck Mowrey**  
Bsci Bus, MBA

Non-Exec Director  
5 decades commercial  
glass and glazing



The CEO of 8G Solutions, a leading U.S. contract glazier. He has over 50 years of experience in the commercial glass and glazing industries and has led several companies to growth and innovation, including Harmon Inc., View Inc., and Guardian Glass.



**Jamie Lyford**  
BCom, LLB, LLM(IP), PGradDip IT

Executive Director  
28 yrs commercial and IP  
law, commercialisation



IP, technology and commercial law expertise with experience ranging from local to international. Extensive commercialisation experience with tech companies.



**Harry Miller**  
BCom, MPA

Company Secretary  
8+ years in corporate,  
compliance & accounts



Company Secretary to a number of ASX-listed and private organizations with valuable cross-industry experience.

# Leadership Team



**Martin Deil**  
Chief Executive Officer

30 years experience in Façade and Architectural envelopes industry

Mr Deil brings a deep knowledge of the international façade and architectural envelopes business to ClearVue having spent the past 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.

Mr Deil has a Bachelor of Science (Honours) Degree in Management and Systems from City University London.



**Jamie Lyford**  
Chief Operating Officer & General Counsel

28 years IP/tech and commercial law and tech commercialisation.

IP/tech, commercial and licensing lawyer with 28 years' experience at local, national and overseas law firms, BHP and global IT company ATOS. Owned and operated boutique IP/tech law firm in WA for over 10 years. Extensive experience in technology commercialisation including managing and operating the Western Australian Government Innovation Centre commercialisation program and incubator under contract.



**Geoff Edwards**  
Chief Financial Officer

30+ years in CFO, senior financial & commercial roles

CPA with 30+ years CFO experience across a variety of service organisations (including ASX-listed companies). Significant experience with start ups, M&A, high growth businesses, equity & debt capital raisings.



**Clifton Smyth**  
Chief Business Development Officer

20+ years in façade, architectural & construction sector

Global supply chain management, risk management and securing projects across Europe and the Middle East. Held senior positions with McMullen Facades Ltd, Linder Group, Multiforms and Kann Finch Group (UAE).



**Earle Harper**  
Chief Commercial Officer

25+ years corporate & government experience

Senior corporate and commercialisation advisor with experience in the financial services, ICT & renewable energy sectors. A broad commercial background and significant investor relations, business strategy and corporate communications experience.



**Alexander Valenzuela**  
General Manager (Europe)

15+ years senior management & 10+ years architectural & design experience

Architect with 15+ years of senior management experience in marketing, sales & BD, acting as VP of European & Global operational activities while working for innovative companies in the renewables sector. A successful track record of business development & sales with a deep PV technology understanding & execution experience.



**Anna Abrossimova**  
Head of Marketing

20+ years of international marketing experience

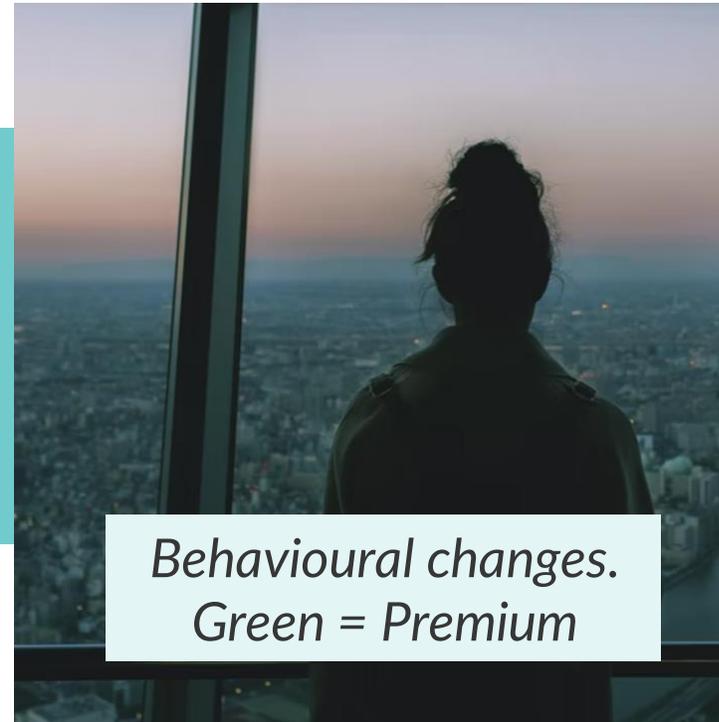
Over 20 years of experience in senior roles in marketing and advertising with a proven track record of achieving strong business results. In her last role as a Marketing Manager, managed a team of 9 driving strategy and managing day-to-day activities for a global brand. Anna has expertise across all major areas of marketing including research and analytics, brand management, marketing automation tools, websites, advertising campaigns, and content marketing.



# Global Demand



*Sustainable investments  
total \$35.3 trillion*



*Behavioural changes.  
Green = Premium*

Rental premiums  
and ESG  
requirements  
drive sustainable  
investments



*Local legislation and  
incentives*

Global BIPV  
market to  
reach \$83 bln  
by 2030

Global Sustainable Investment Report <https://www.gsi-alliance.org/wp-content/uploads/2021/08/GSIR-20201.pdf>  
Global Building Integrated Photovoltaics (BiPV) Strategic Markets Report 2022-2030  
<https://www.researchandmarkets.com/report/building-integrated-photovoltaics>

# Addressable Markets: Short Term (1-3yrs)



## **Skylights**

Product: Skylight  
Market size: \$5.5bln  
CAGR: 15%  
Geo: UK/US/Global

## **Prefabricated Homes**

Product: Double IGU  
Market size: \$10.8bln  
Geo: US, Global

## **Signage, Bus stops, Advertising**

Product: Single/Double IGU,  
Lusoco Signage  
Market size: \$42bln  
Geo: Europe, Global

## **Community Infrastructure**

Product: Double IGU  
Market size: \$81.7bln  
Geo: UK/US

## **Defence Infrastructure**

Product: Double/Triple IGU  
Market size: \$800bln (US)  
Geo: UK/US/Europe/  
Australia/Singapore

## **Commercial: up to 15 storeys**

Product: Double/Triple IGU  
Market size: n/a  
Geo: US, Europe, Global

## **Residential Infrastructure**

Product: Single/Double IGU  
Market size: n/a  
Geo: US, Global

## **Greenhouses**

Product: Single/Double IGU  
Market size: \$50.6bln  
CAGR: 11.3%  
Geo: US, Global

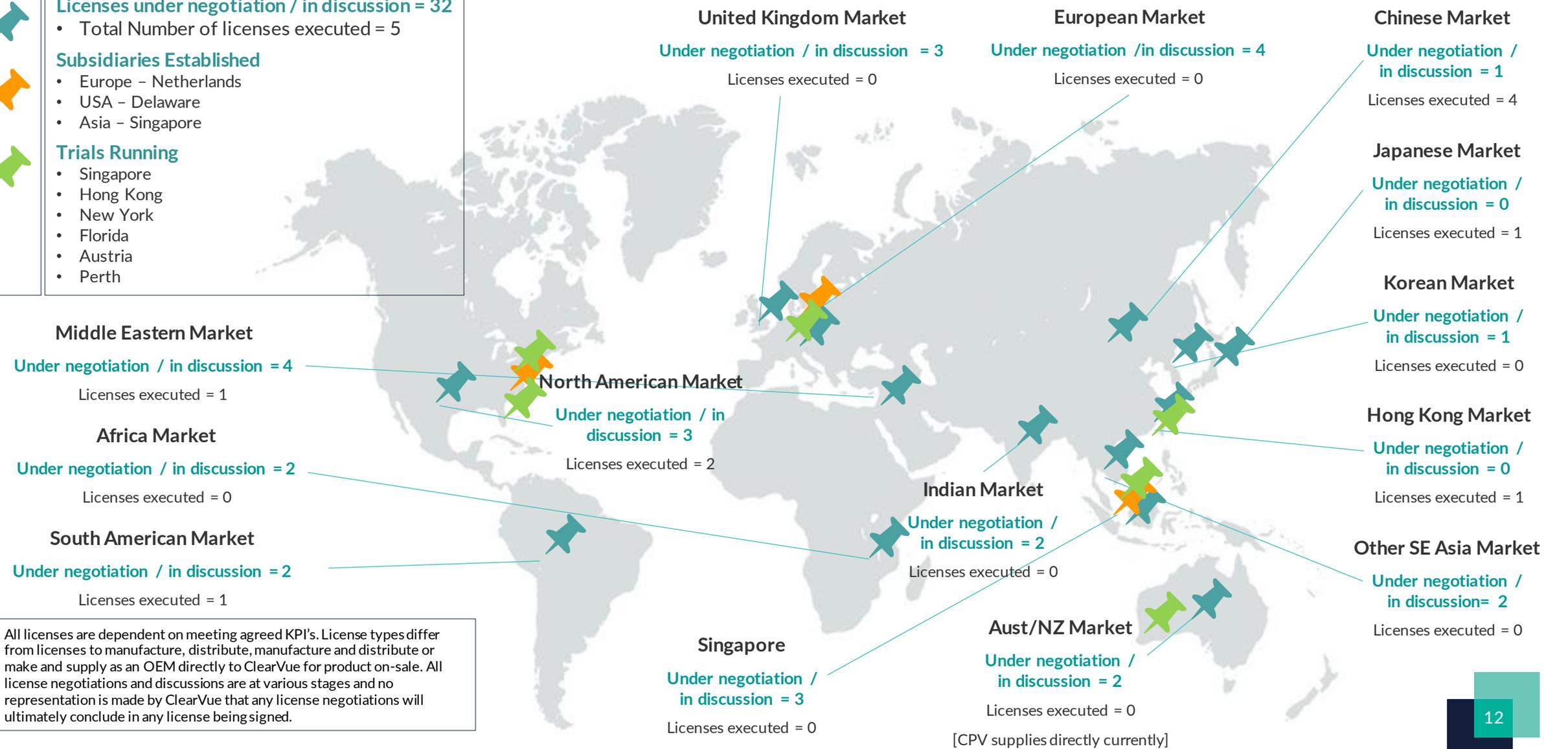
<https://www.alliedmarketresearch.com/building-integrated-photovoltaic-skylights-market>  
<https://www.researchandmarkets.com/reports/5735021/bill-board-outdoor-advertising-global-market-report>  
<https://www.sipri.org/media/press-release/2022/world-military-expenditure-passes-2-trillion-first-time>  
<https://www.freedoniagroup.com/industry-study/prefabricated-housing-3814.htm>  
<https://www.researchandmarkets.com/reports/5734985/community-housing-services-global-market-report>  
<https://www.grandviewresearch.com/industry-analysis/building-integrated-photovoltaics-bipv-market>  
<https://www.marketsandmarkets.com/Market-Reports/commercial-greenhouse-market-221045451.html>

- Licensees
  - Glass companies will make IGUs
  - ClearVue is supplying key IP components only
  - Leverage local relationships, expertise, and standing partnerships
- Scalability
  - Utilize the existing supply chain, and will complement the supply chain with our own production



# Global Footprint

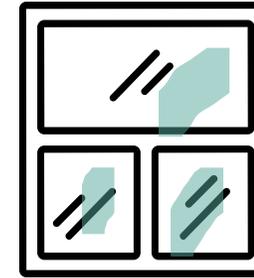
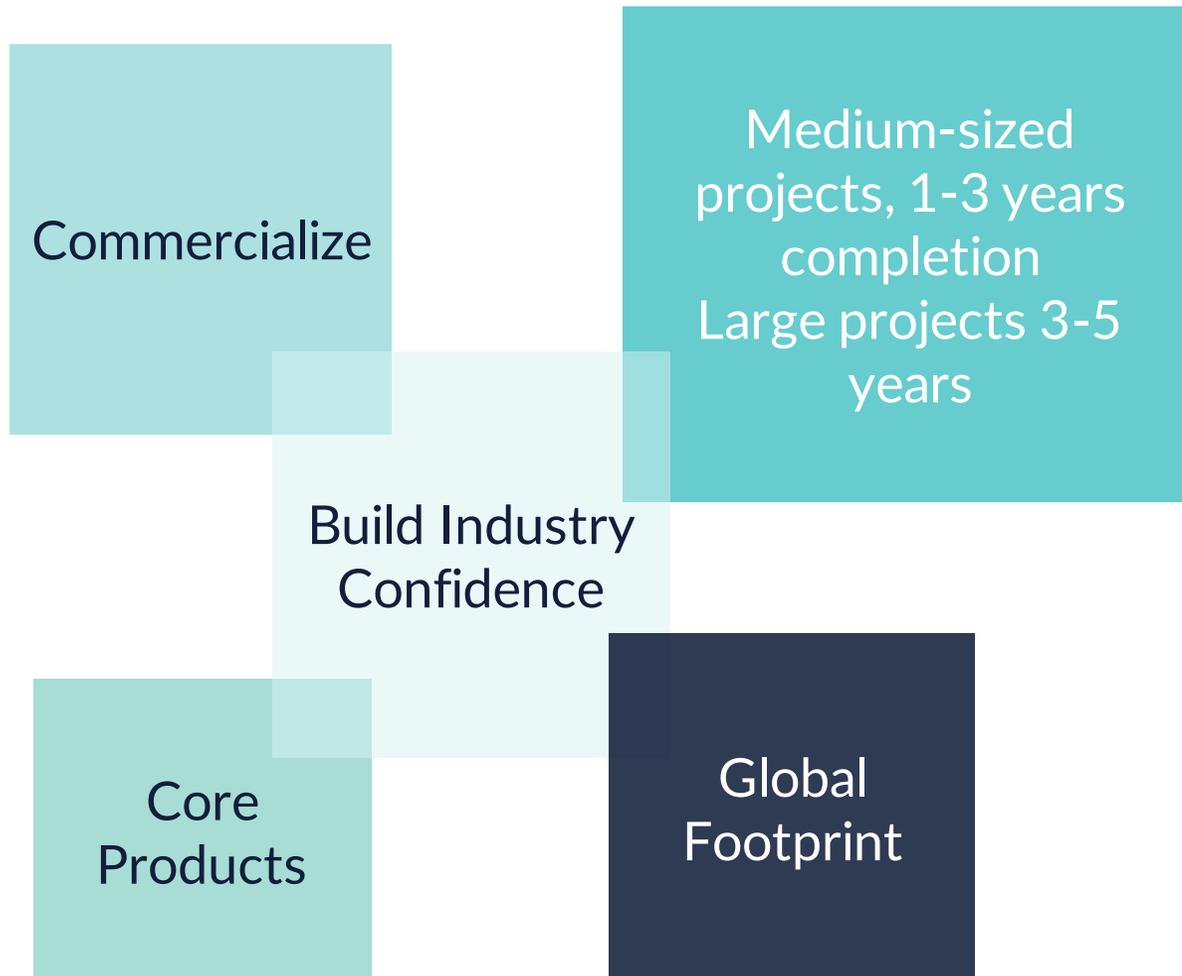
-  Licenses under negotiation / in discussion = 32
  - Total Number of licenses executed = 5
-  **Subsidiaries Established**
  - Europe - Netherlands
  - USA - Delaware
  - Asia - Singapore
-  **Trials Running**
  - Singapore
  - Hong Kong
  - New York
  - Florida
  - Austria
  - Perth



All licenses are dependent on meeting agreed KPI's. License types differ from licenses to manufacture, distribute, manufacture and distribute or make and supply as an OEM directly to ClearVue for product on-sale. All license negotiations and discussions are at various stages and no representation is made by ClearVue that any license negotiations will ultimately conclude in any license being signed.

[CPV supplies directly currently]

# Vision For the Company



# RECENT ADDITIONAL MILESTONES



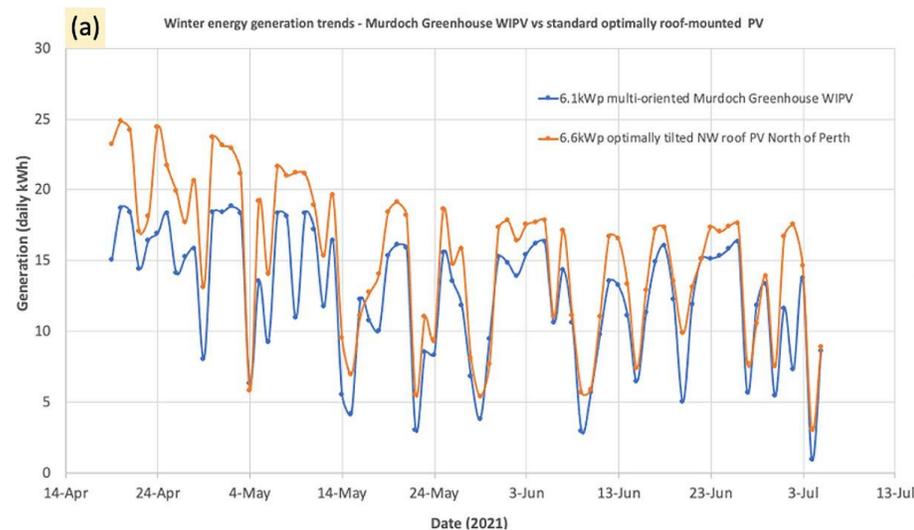
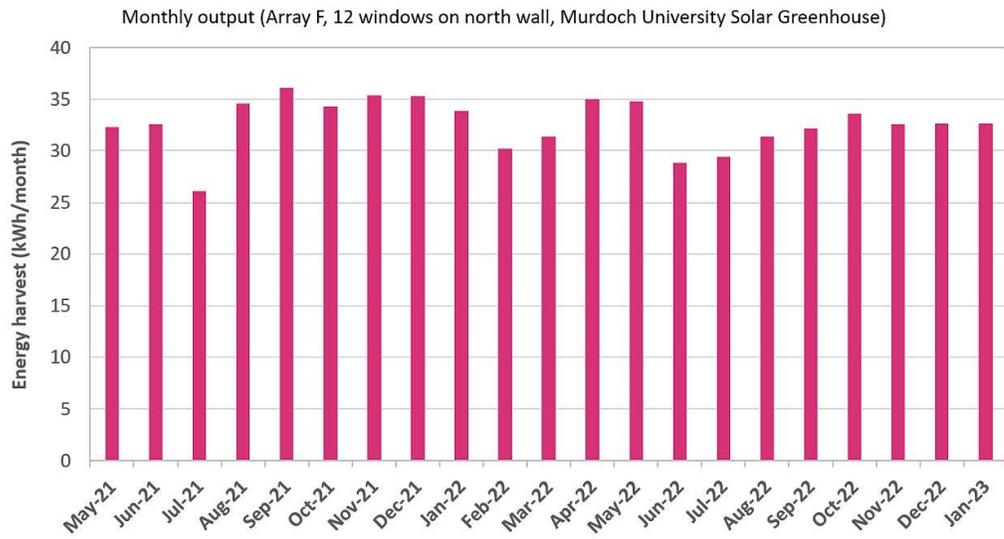
# Lusoco IP Acquired

- Energy-harvesting technology utilising highly fluorescent inks which can be printed on plastic;
- Very similar approach to the ClearVue technology - a complementary technology with many synergies possible;
- Signage can self-illuminate for up to 300 hours after 1 day of charging;
- Acquiring this technology will complement the existing products and assist with ClearVue's public infrastructure, signage and advertising product offering.



# Murdoch Greenhouse Research

- An academic paper was recently released for pre-print: *Field Performance Monitoring of Energy-Generating High-Transparency Agrivoltaic Glass Windows*
- 2 years' worth of greenhouse data was analyzed. Key findings:
  - relative **stability** of daily energy outputs **throughout seasons** confirmed;
  - ClearVue solar windows are suitable for efficient solar energy harvesting in **adverse environmental conditions**, even when installed at a range of angles, and in areas with dust contamination;
  - On some rainier days greenhouse energy generation even **outperformed** a standard 6.6 kWp PV optimized roof solar panels;
  - **40% of the energy requirements** of the greenhouse were covered by solar glass generated power.



# Glass Performance Day Presentation

- ClearVue's Chief of Chemical Technologies, Dr Jeroen ter Schiphorst and Chief Business Development Officer, Clifton Smyth presented “*High-transparency Clear Window-Integrated PV and Agrivoltaics*” at the Glass Performance Day - a conference dedicated to the development of the global glass industry, glass innovations and new technologies, which has been running for 30 years.



# ARC Linkage Grant

- ClearVue's research partner Macquarie University was on 20 June 2023 announced as the recipient of a \$566,000 Australian Research Council Linkage project grant
- 3-year research project *"Highly Efficient Solar Window Technology Enabled by Quantum Dots"*.
- The research team lead by Professor Shujuan Huang, Dr Robert Patterson and Dr David Payne along with ClearVue's Dr Mikhail Vasiliev will focus on exploring the use of inorganic quantum dots in the ClearVue solar photovoltaic glazing solution.

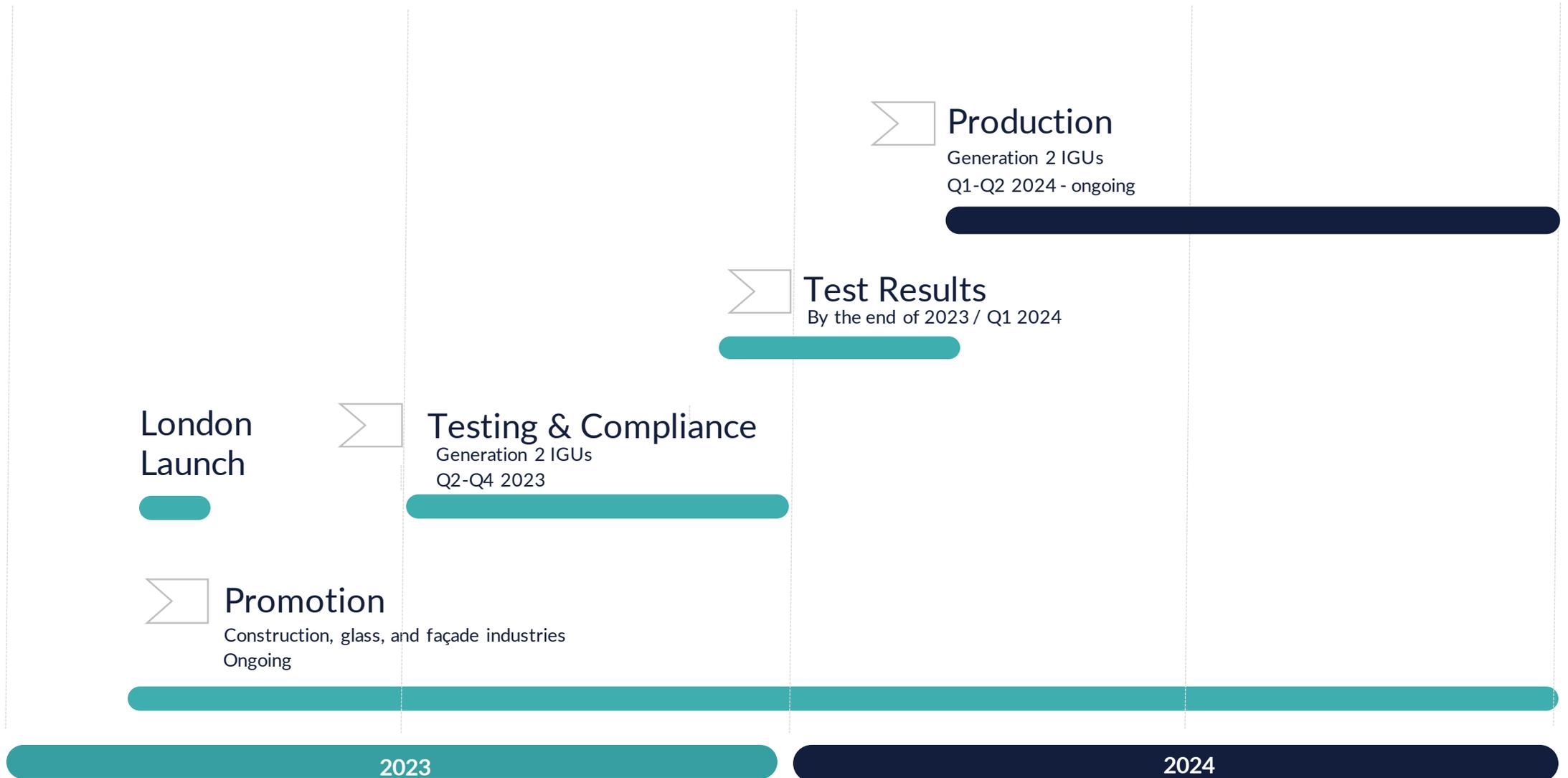


# Luxembourg Installation of ClearVue Glass

- The Building Training Institute (IFSB) committed to the installation of ClearVue glass panels in their headquarters in Luxembourg;
- ClearVue was invited to the showcase event dedicated to strategic planning for photovoltaic measures at Luxembourg and attended by Minister of the Economy, Franz Fayot, and the Minister of Energy, Claude Turmes, and major construction company executives;
- ClearVue's products have received high commendation for their remarkable ability to reduce carbon footprint and harness solar energy;
- Operating solar windows which can be seen in action serve as compelling evidence of the commercial availability of ClearVue's technology.



# Milestones – 2023/2024



# Company Profile



## Capital Structure

(at 26 June 2023)

No debt.

Ordinary Shares on Issue 217,171,757

Options on Issue 16,050,000

AUD \$0.25 exercise price – exp. 22 Dec 2023 – 800,000  
AUD \$0.1425 exercise price – exp. 11 Jul 2024 – 1,750,000  
AUD \$0.75 exercise price – exp. 30 Jun 2024 – 2,000,000  
AUD \$0.37 exercise price – exp. 2 Feb 2024 – 3,000,000  
AUD \$0.30 exercise price – exp. 30 Nov 2024 – 3,000,000  
AUD \$0.40 exercise price – exp. 30 Nov 2025 – 2,500,000  
AUD \$0.50 exercise price – exp. 30 Nov 2026 – 3,000,000

Performance Rights 10,000,000

Approx. Market Cap @ \$0.165 ≈ \$36 million

Unaudited Cash Balance (28 Apr 2023) ≈ \$7.7m

## Shareholders

(at 26 June 2023)

Top 20 holding 41.08% of Issued Capital

16.66% held by board

## Share Price Performance

(Jun 2022 – 26 Jun 2023)



|      |      |           |      |
|------|------|-----------|------|
| Open | 0.17 | P/E       | -    |
| High | 0.17 | 52wk High | 0.30 |
| Low  | 0.16 | 52wk Low  | 0.14 |

# Charles Mowrey @ The Market Herald



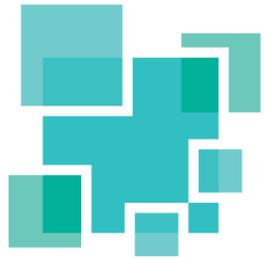
**ClearVue  
Technologies  
(ASX:CPV) appoints  
industry leader  
Charles Mowrey**

**ASX:CPV**



**Charles Mowrey - Non-Executive Director**





ClearVue<sup>PV</sup>

Thank you!



Suite 9 / 567 Newcastle Street  
West Perth, Western Australia 6005



+61 8 9220 9020



[hello@clearvuepv.com](mailto:hello@clearvuepv.com)



[www.clearvuepv.com](http://www.clearvuepv.com)



**Investor Queries:**

[Investors@clearvuepv.com](mailto:Investors@clearvuepv.com)