

ClearVue^{PV}
TM

Unleashing the power of glass

ClearVue Technologies Limited (ASX:CPV)

Investor Presentation | June 2018



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Business Overview

Introduction

ClearVue Technologies Limited (CPV) operates in the Building Integrated Photovoltaic (BIPV) sector which involves the integration of solar technology into building components, specifically glass and building surfaces to produce renewable energy

Key target markets

Agriculture and horticulture
Commercial and residential
Public amenities

Mobile, wearables and IOT applications
Motor vehicles

Key investment highlights



Advanced building technology that uses clear glass to convert sunlight into energy



Global market opportunity



Patented technology – 34 granted patents and 39 patent applications throughout the world



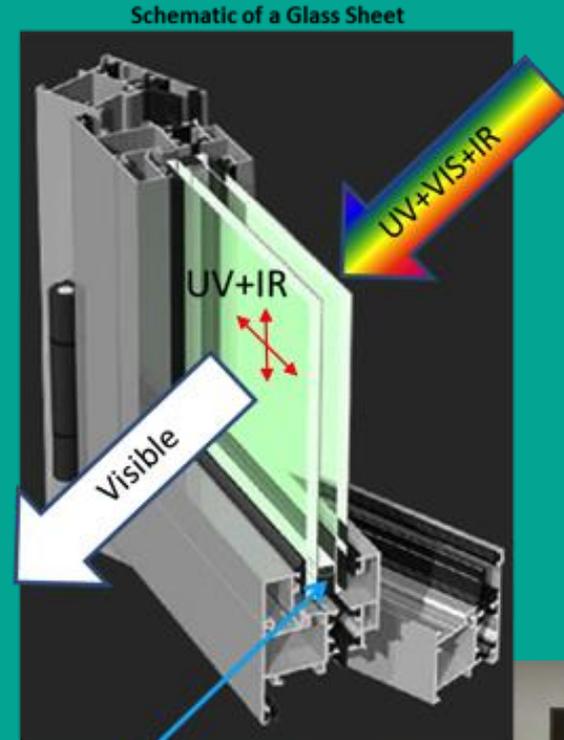
Australian Government support – In conjunction with Apex Greenhouses and Edith Cowan University, ClearVue was awarded a \$1.6m grant from the Australian Federal Government



Forefront of Nano-Technology

ClearVue^{PV} has robust IP protection on all products

- Visible light (VIS) passes through the glass
- Micro & Nano particles interact with Ultra Violet (UV) radiation which is converted to longer wavelengths and scattered along with Infrared (IR) light to the edges of glass
- **Insulation properties reduce heating and cooling costs**
- IR is collected by PhotoVoltaic (PV) cells - **Produces electricity**
- **Reduces heat and blocks damaging UV and IR radiation**



PV cell



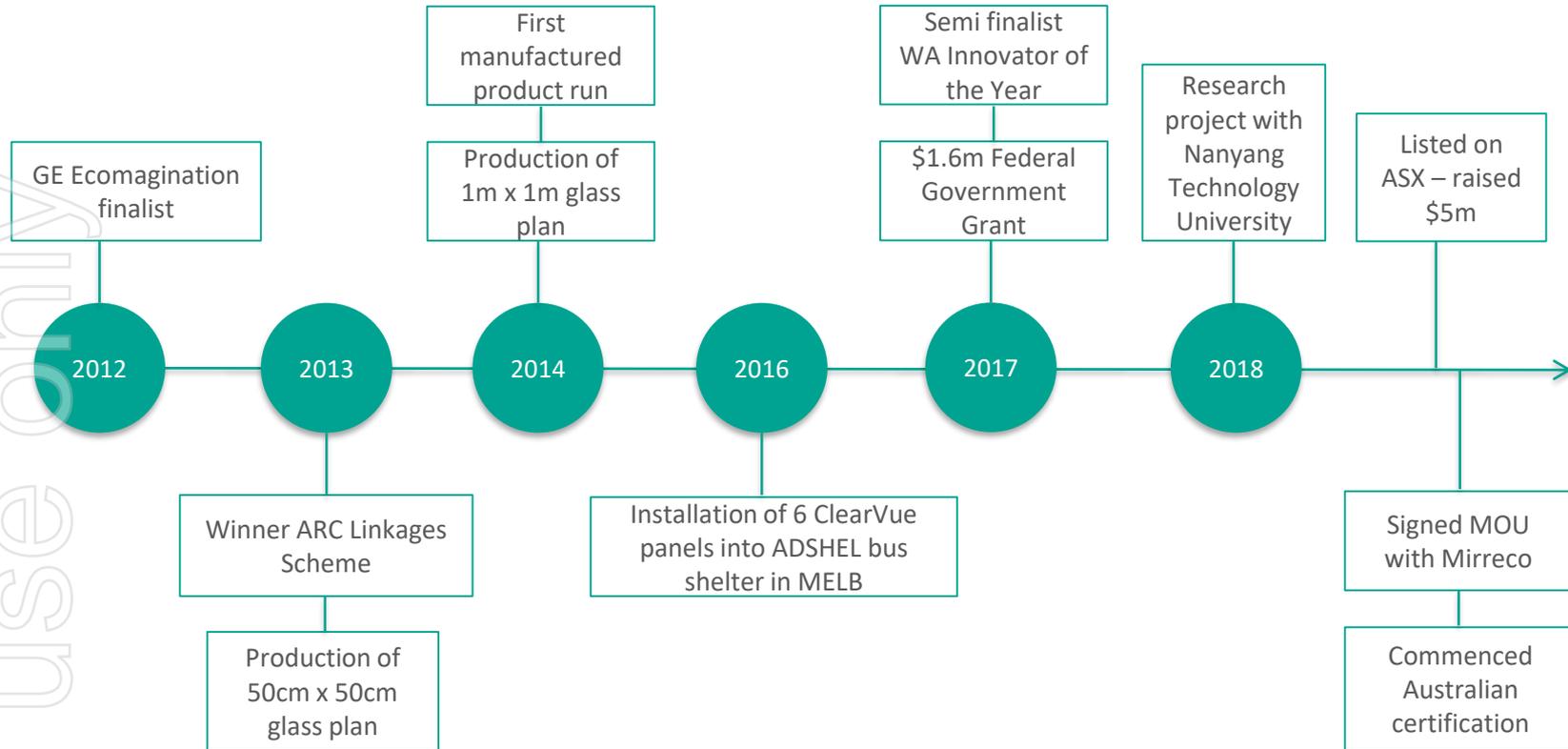
Corporate Snapshot



ASX code	CPV
Ordinary shares	95,020,300
Market capitalisation (6 June 2018)	\$16.1m
Cash raised at IPO (May 2018)	\$5.0m
GICS classification	Capital goods

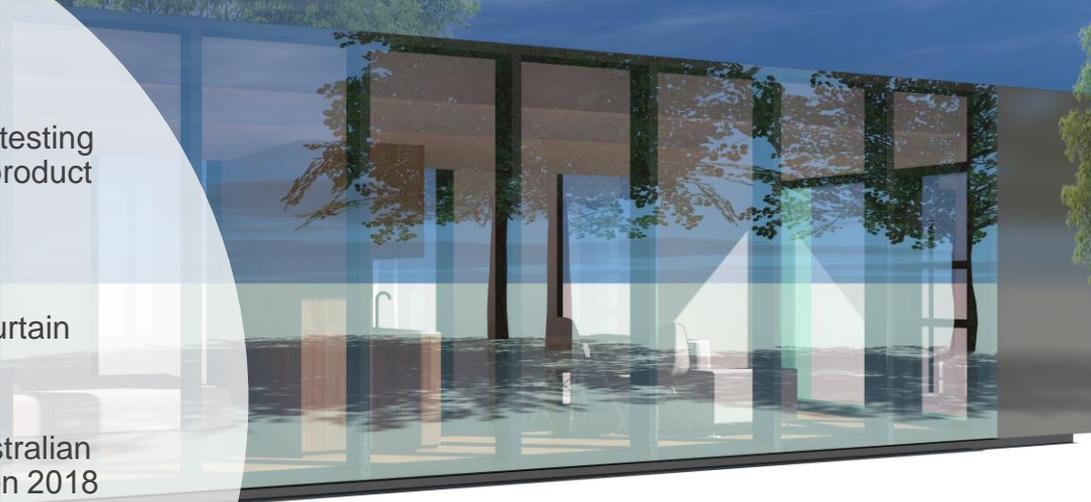
- ClearVue secured \$5m through IPO and listed on the ASX on 25 May 2018
- High % of company shares are escrowed for 24 months – 39,026,956 million in total
- Tight free float with top 20 holding 60.5%

Company Milestones since 2012



Market Updates

- **Australian Standards (AS)** certification testing (AS2047) of energy generating window product and curtain wall product (AS4284) has commenced
- **Certification** of ClearVue window and curtain wall products anticipated in Q3 2018
- ClearVue products to be launched at Australian Window Association's (AWA) Fenestration 2018 conference at Port Douglas, Queensland in September
- ClearVue signed **MOU with Mirreco** to become exclusive supplier for solar glass windows following successful development of the prototype micro Hemp Eco-home in Q4 2018



MIRRECO



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World Class Technology Partners

ClearVue has partnered with Edith Cowan University (ECU) in Perth Western Australia to develop the IP that can convert a pane of glass into energy

ClearVue has entered into an exclusive agreement for contracted R&D for the development of ClearVue's core technologies.



ClearVue has signed a collaboration agreement for solar printing with Nanyang Technological University (NTU) (Singapore) and Singapore HUI Alliance for Research and Enterprise Ltd research



Electricity that could be generated Worldwide - Renewables

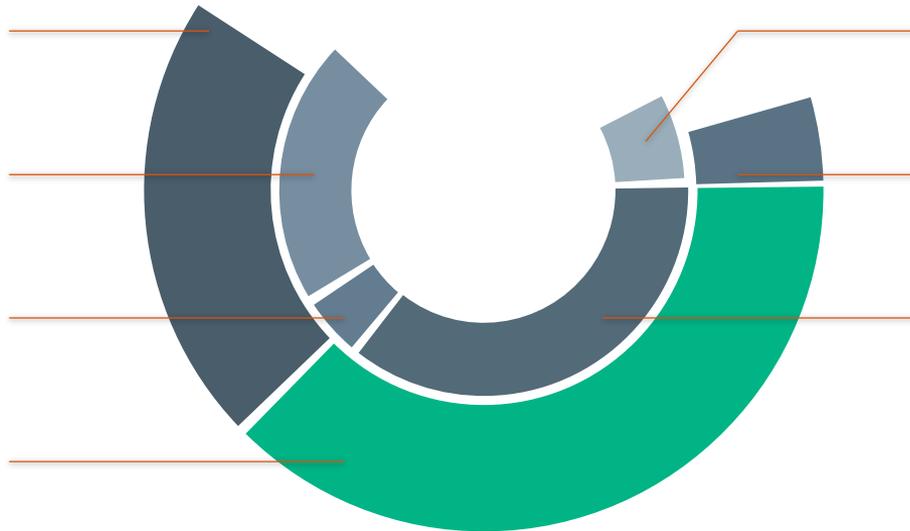
975,010 terawatt-hours

275,556 TWh
concentrating/surface solar

91,398 TWh
ocean (tidal and wave)

6,111 TWh
wind (offshore)

470,278 TWh
traditional solar photovoltaic



12,500 TWh
geothermal

13,889 TWh
hydro

111,389 TWh
wind (land based)



Electricity presently generated Worldwide – Non-renewables dominate

23,322 terawatt-hours

Ranking the renewables

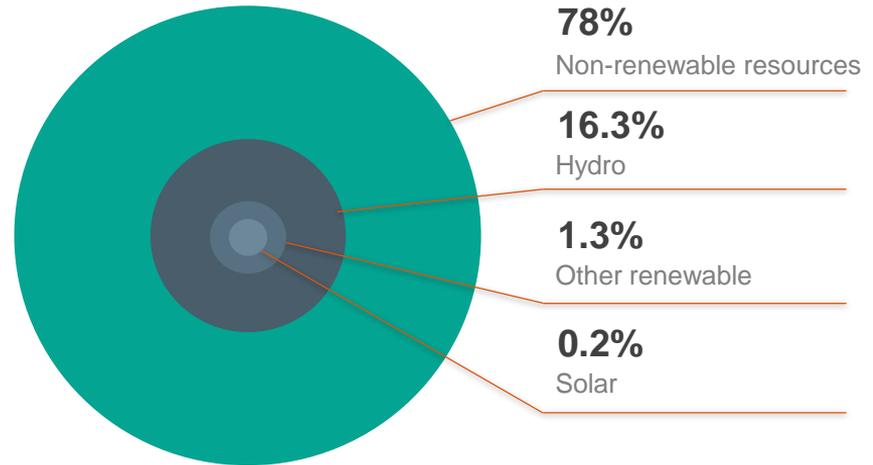
The sun's potential for power generation eclipses that of all other renewable energy sources. But for now solar power barely registers in the world's energy portfolio. It accounts for only a fraction of a percent of total electrical output – much less than hydropower or wind energy, which are cheaper to produce.

745,834 TWh

total solar could be generated

46.6 TWh

current solar's contribution



Market Opportunity



Government legislations and energy needs will drive investments into solar

US\$310 Billion

investment into clean energy in 2014+ 16%



5,500 million
square metres of glass
produced each year

€23 Billion

Value of the flat glass market



37%
increase in global
energy demand

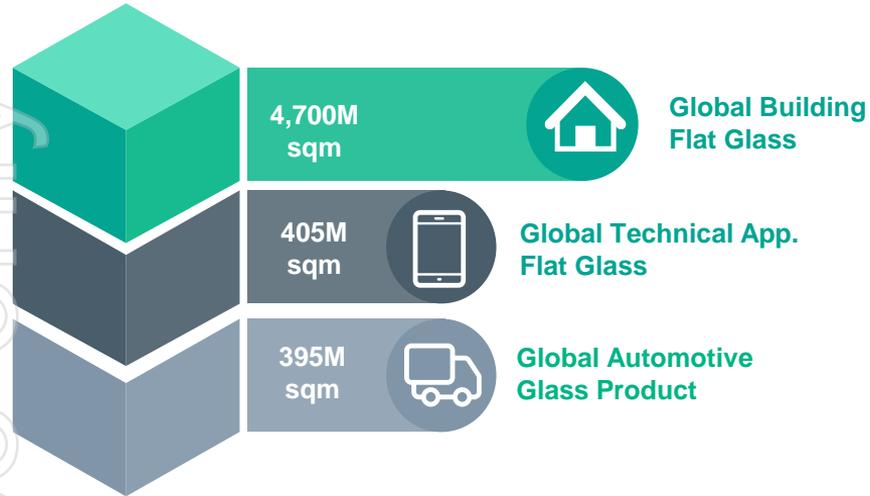
Sources: United Nations, Climate Spectator, NanoMarkets

Forbes - china-leads-the-world-in-renewable-energy-investment report July 2012

<http://www.climatespectator.com.au/news/uk-track-hit-2020-green-energy-targets-decc>

http://www.rechargenews.com/business_area/politics/article323311.ece

The Glass Market – Overview



Total Glass Market Size 5,500 sqm p.a. worth €23 Billion

Source: NSG Group and the Flat Glass Industry Report 2011

Global Glass Market Suppliers

AGC 15%


SAINT-GOBAIN 14%


NSG GROUP 13%


GUARDIAN 12%
Glass - Automotive - Building Products

Market share 54%



Solar Installed Capacity by Region

Solar installed capacity is expected to grow by 1000% by 2030

21.4%
Germany

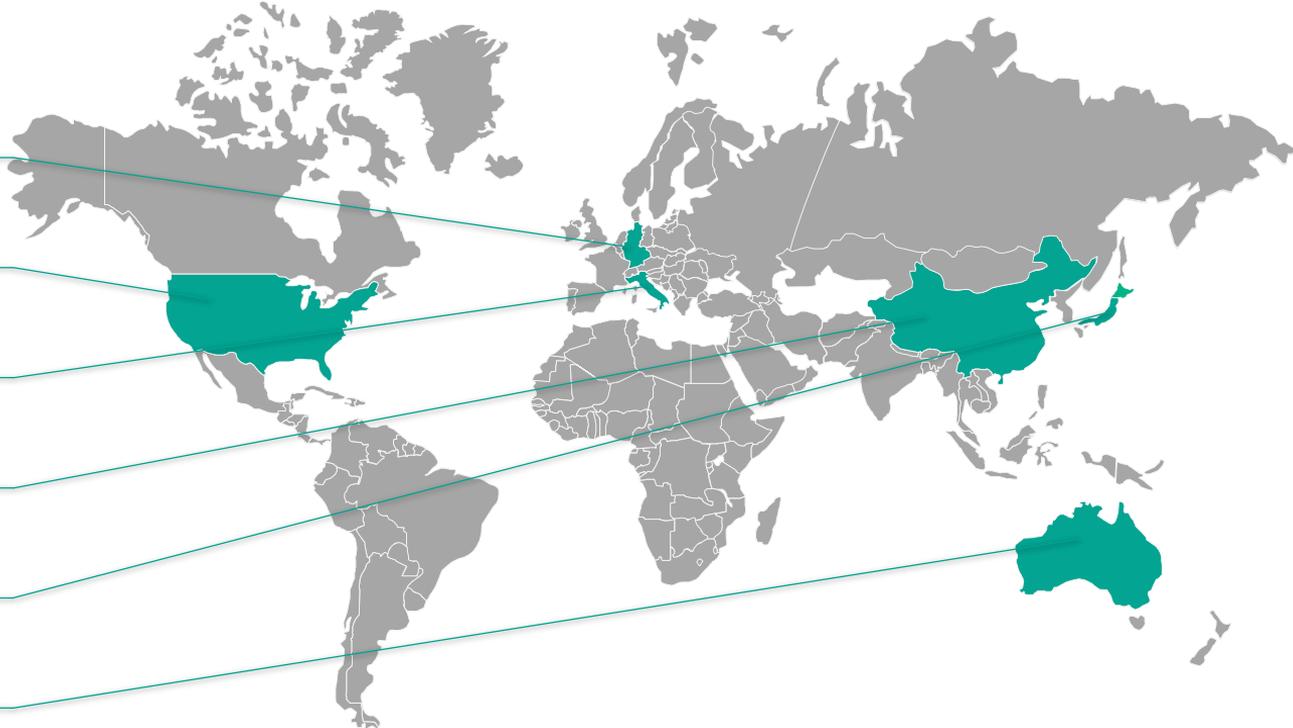
10.1%
USA

10.7%
Italy

15.7%
China

12.9%
Japan

2%
Australia





DOOR



AWNING



FACADE



CLEARVUE
**SOLAR
WINDOW**
(APPLICATIONS)



WINDOW



CURTAIN WALL



SKYLIGHT



Agriculture and Horticulture Applications

- Food and food security is global multi billion dollar industry. Key markets are China, Spain, Europe and USA.
- Technology presents opportunity for self powering greenhouse
- **26% of all food imported into the United States is a horticulture product.**
- **ClearVue^{PV} granted \$1.6m from Australian Federal Government in Jan 2017 to build a 300-350m² greenhouse in conjunction with Apex Greenhouses and Edith Cowan University. Project to commence April 2017.**

#Source: United States Department of Agriculture



Architect's drawings of a proposed ClearVue greenhouse



Commercial & Residential Applications

largest market opportunity – at the moment demand is limited by product characteristics - no transparent products

- By 2025 there will be more than 29 mega cities with 10 million plus people
- Buildings can be the source of their own energy needs
- Insulation properties reduce heating and cooling costs
- Building managers can charge higher rents as the buildings meet a higher green star energy rating
- Sky lights are the fastest new window market in the USA

Source: UN Report on World Urbanisation & World Energy Outlook Report 2014



Public Amenities Applications

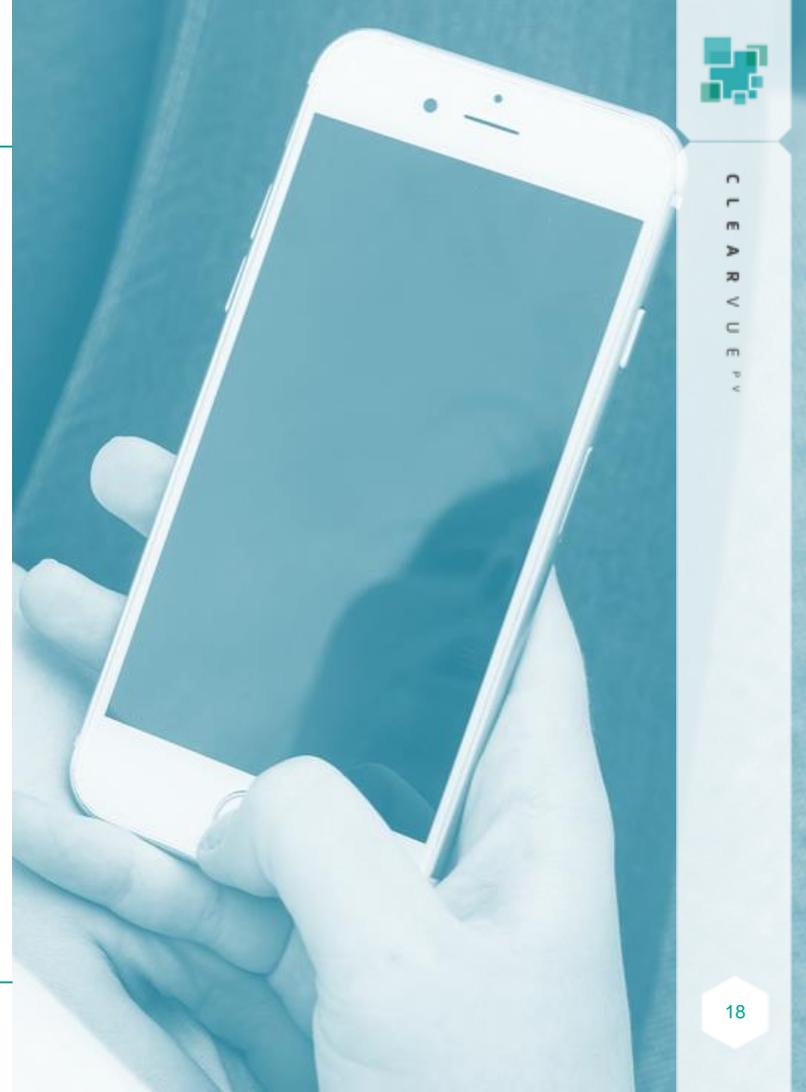
- Recharge mobile phones from a bus stop
- Free energy in public places, e.g. a library
- Provide energy to developing countries in buildings such as schools
- Awnings, Atriums, Sky Lights, Balustrades
- Waste management services and water purification
- **ClearVue started bus shelter trial in Dec 2016 in conjunction with AdShel – CVPV is being used to power shelter lighting and signage**



Mobile, Wearables and IOT Applications

Limited by lack of transparent products

- ClearVue^{PV} product is designed to cover the display area of electronic products, including wearables, phones, tablets, internet-of-things (IoT) devices, generating electricity to power these devices.
- True transparency is achieved by selectively transmitting light visible to the human eye, while converting invisible ultraviolet and near-infrared light into electricity
- This allows ClearVue^{PV} to be integrated directly into the surfaces of electronic products with no degradation of device function or display clarity



Upcoming Milestones



Plan to **certify product** (AS & ISO) in Q4 2018 and **commercialisation** in Q2 2019



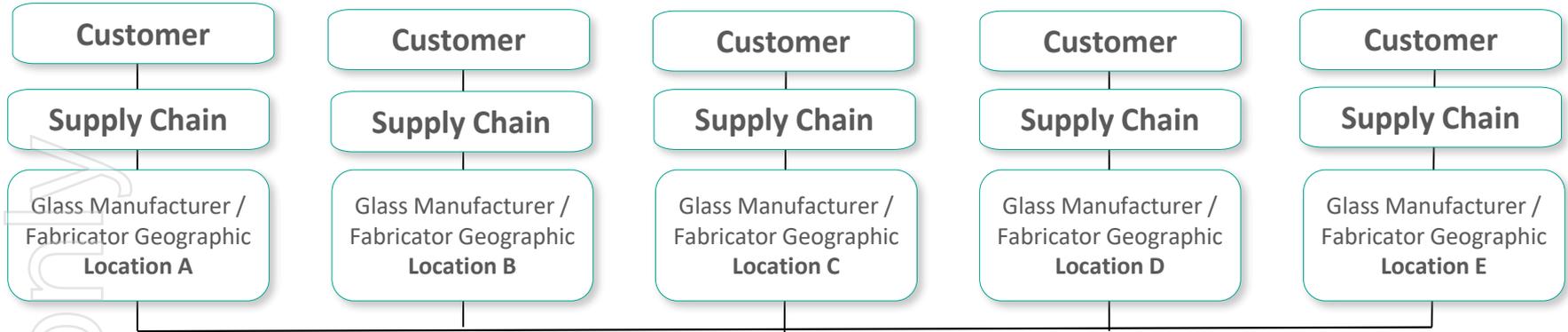
Plan to establish **manufacturer/ assembler licensees** world wide



Continue R&D and products development. The company will be well positioned as the **global leader in Smart Building Materials**



Distribution Model



Leveraging existing manufacturing capacity and supply chains reduces implementation risk and required capex



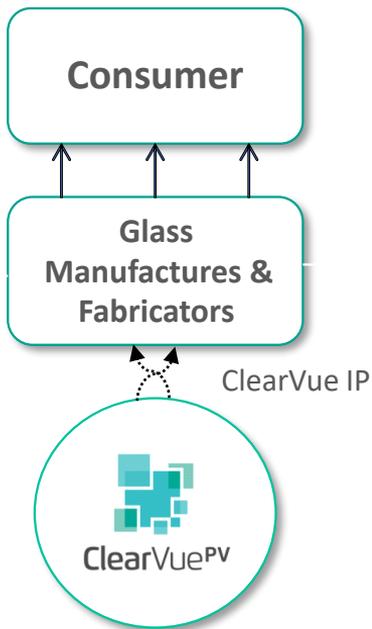
ClearVue has already commenced preliminary discussions with multiple global glass manufactures and fabricators. Licensees for Australia, Japan, Singapore China, Europe & United States have been identified

Relationship will be in the form of a ongoing licence agreement



Revenue Model

ClearVue receives royalty from all glass sold



Global Glass Manufacturers or Fabricators purchase licence to make or assemble ClearVue glass product directly or through wholesaler

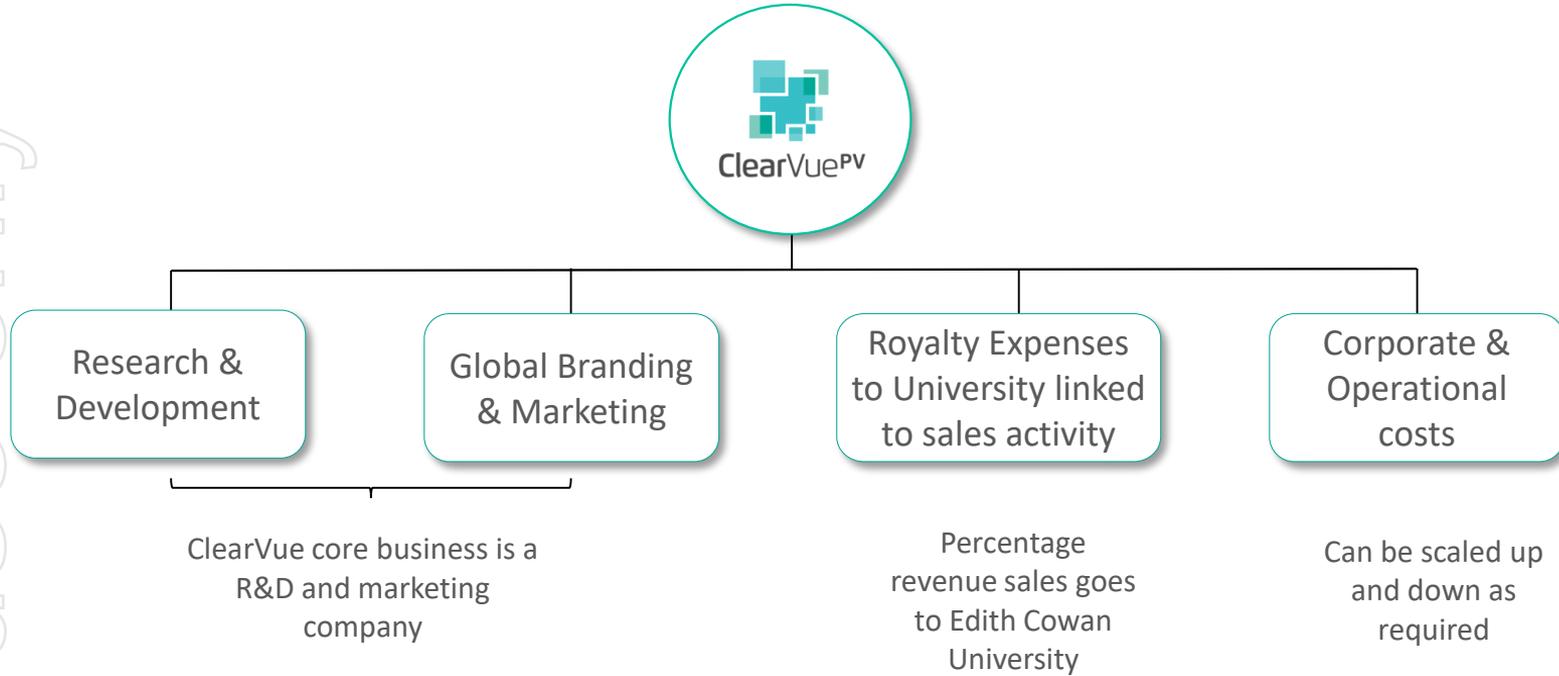
ClearVue will **not** be the manufacturer of glass

Internal use only

Operational Model



Internal use only



Board and Management



Victor Rosenberg
executive
chairman/CEO

Serial Entrepreneur.
Globally recognised for his contributions to glass industry.
Extensive business experience in senior management and sales.

Jamie Lyford
executive director/
legal counsel

Technology commercialisation, IP and licensing lawyer with over 20 years experience. Previously worked in BHP, IT company ATOS and ran Western Australia Government Innovation Centre

Sean Rosenberg
non-executive

Member of the Institute of Chartered Accountants with over 10 years professional experience in finance, auditing and accounting of listed corporations

Ivan Wu
non-executive/
corporate advisor

Corporate adviser to various private & ASX listed companies with over 20 years of corporate and commercial experience in the IT, resource and gas industries

Stuart Carmichael
non-executive

Member of the Institute of Chartered Accountants with over 20 years accounting and corporate finance experience. Currently Non-Executive Chairman of Schrole Limited (ASX:SCL) and Serpentine Limited (ASX:S3R) and Non-Executive Director of De.mem Limited (ASX:DEM)

Why Invest



ClearVue^{PV} has already received strong product interests from around the world in the building & construction, agriculture and public amenities industries



Received strong interest in manufacturer/fabricator partnership from Australia, Asia, Europe & MENA



Strong growth potential expected post commercialisation milestones



Projected revenue drivers:
Building & Construction
Agriculture
External Applications





ClearVue^{PV}_{TM}

thank you

unlocking the energy in glass



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