



ClearVue^{®v}

AGM PRESENTATION 2018 CLEARVUE TECHNOLOGIES LIMITED

Presented by: Victor Rosenberg, Executive Chairman – 30 November 2018

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Introduction

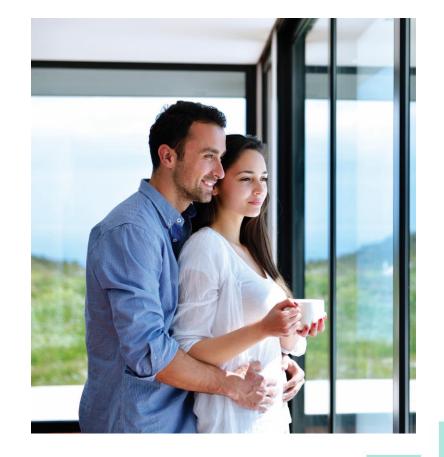
At ClearVue, we offer a powerful renewable energy solution that incorporates solar energy generation into transparent glass. ClearVue Technologies Limited (ASX: CPV) operates in the Building Integrated Photovoltaic (*BIPV*) sector which involves the integration of solar technology into building materials, specifically glass and building surfaces to produce localised renewable energy.

ClearVue's glass technology represents an untapped opportunity to use one of the worlds most used building materials for energy generation – clear GLASS

Our Mission & Motivation

- Our mission is to capture the energy that surrounds us through the use of innovative building materials. We believe that the future of energy is localised generation energy generated where it is needed
- We are driven by green building goals and believe that our technology can assist building owners and developers achieve their own green and sustainability goals - including Net Zero buildings and even carbon negative buildings in some cases.





ClearVue Highlights



Advanced building technology that uses ultra 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 \$1.6m grant from the Australian Federal Government to build a grid-independent greenhouse in early 2019

Key Targets:	Key Specifications:
Agriculture and Horticulture	Ultra clear - up to 70% transparency (VLT/AVT)
Commercial and Residential	■ Power generating - 30 W/m2 peak power (anticipated ≈ 50 W/m2 possible through ongoing R&D)
Public Amenities	Insulating - U-factor 1.26 W/(m2 °K)

Corporate Snapshot



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- 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%

ASX Code: CPV	
Ordinary Shares	97,380,300
Options	54,598,024
Performance Shares	13,000,000
Market Capitalisation (Share price \$0.35 as at 16 November 2018)	\$34 million
GICS Classification	Capital goods

Board and Management

ClearVue ^{PV}

Victor Rosenberg	Jamie Lyford	Kim Harmer	Brett Tucker	Sean Rosenberg	Stuart Carmichael	Ivan Wu
Executive Chairman	General Counsel & Corporate Officer / Director	Chief Technology Officer	Company Secretary	Non-Executive Director	Non-Executive Director	Non-Executive Director
Serial Entrepreneur. Globally recognised for his contributions to glass industry. Extensive business experience in senior management and sales.	IP and licensing lawyer with over 20 years experience. Previously worked in BHP, IT company ATOS and ran Western Australian Government Innovation Centre	Technology commercialization, research and development, production and innovation leadership. Over 20 years working in Schneider Electric in EMEA and Asia Pacific Currently on Advisory Board for IoTStream	Company Secretary to a number of ASX listed and private companies and has been involved in numerous public corporate transactions and acquisitions. A Chartered Accountant with a strong corporate and compliance background.	Member of the Institute of Chartered Accountants with over 10 years professional experience in finance, auditing and accounting of listed corporations	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)	Corporate adviser to various private & ASX listed companies with over 20 years of corporate and commercial experience in the IT, resource and gas industries

ClearVue's Research Partners



Edith Cowan University

ClearVue has partnered with Edith Cowan University (ECU) in Perth Western Australia since 2011 to develop the core 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.

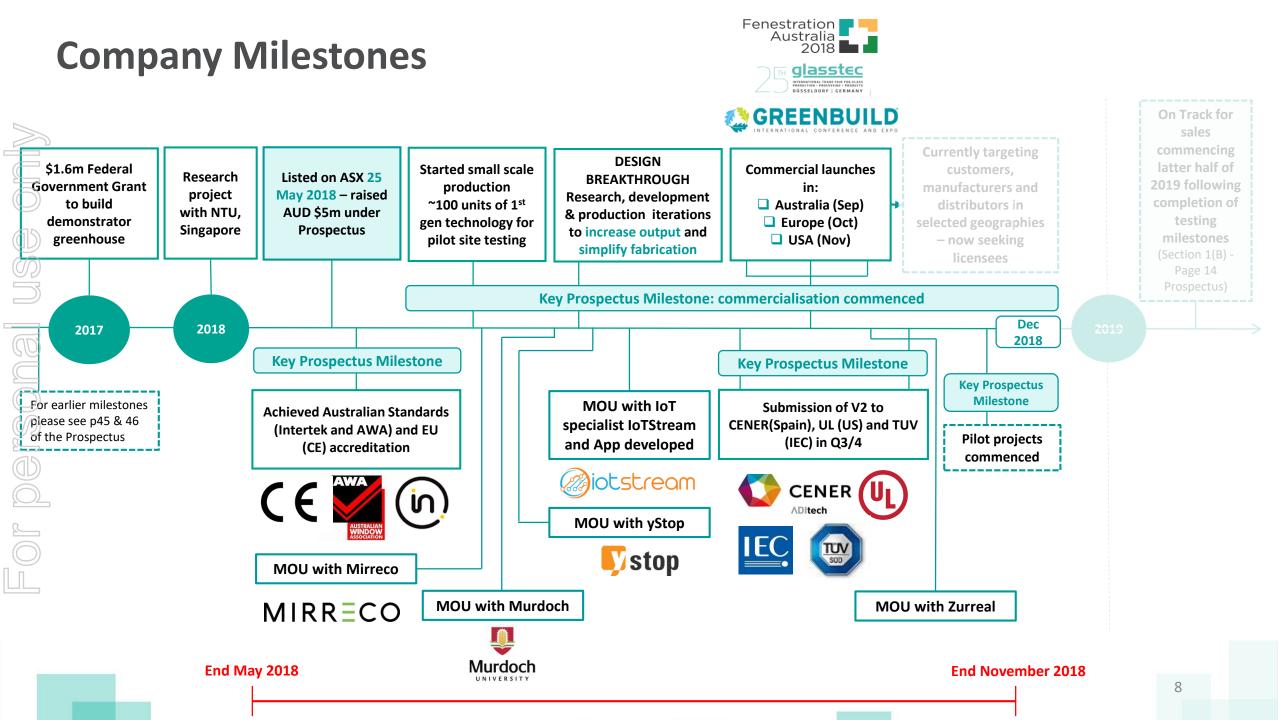
Nanyang Technological University

ClearVue has signed a collaboration agreement for with Nanyang Technology University (NTU) (Singapore) and Singapore HUJ Alliance for Research and Enterprise Ltd research to explore printing of solar PV amongst other things.









Product Launches

Fenestration - Sept 2018 Port Douglas

ClearVue

Greenbuild - Nov 2018 Chicago

ClearVue?v

Glasstec – Oct 2018 Dusseldorf







Video: Aust Product Launch – Fenestration Sep 2018 – Pt Douglas





Video: European Product Launch – Glasstec Oct 2018 - Dusseldorf





Video: North American Product Launch – Greenbuild Nov 18 - Chicago





PV

UL Testing for US Market commenced Q4





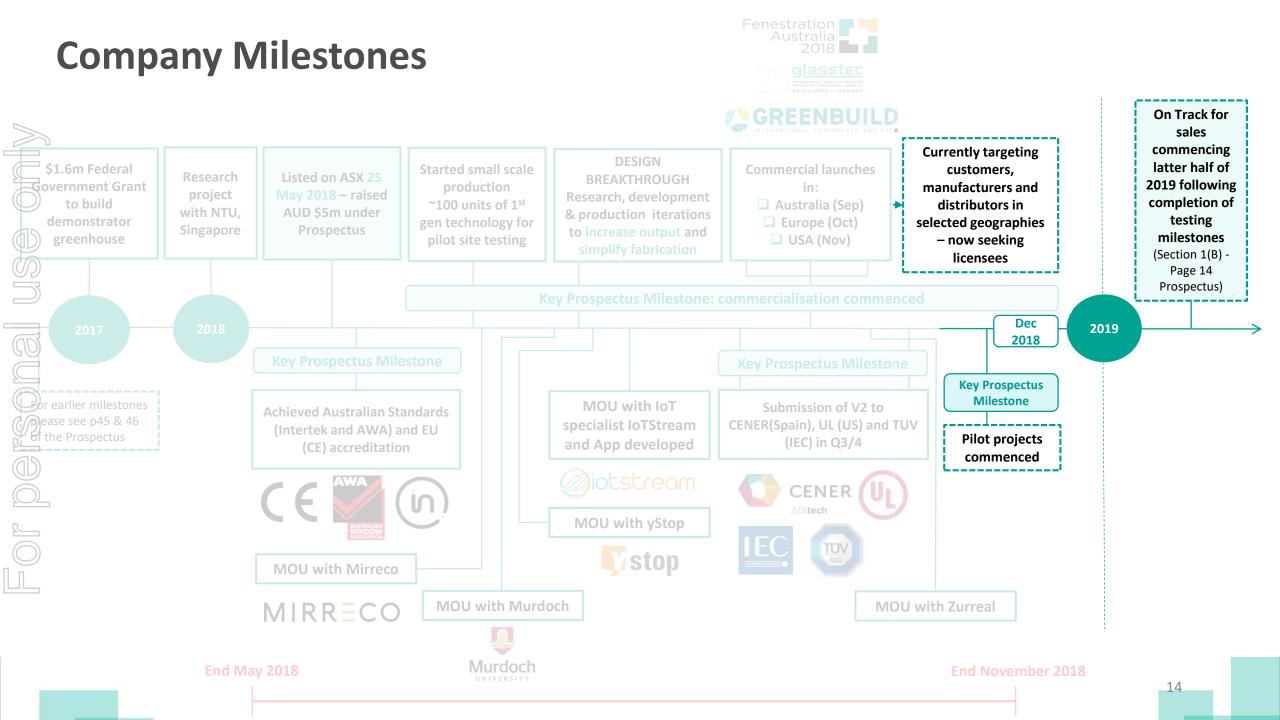












Upcoming Milestones

On Track for sales commencing latter half of 2019 following completion of testing milestones (Section 1(B) -Page 14 Prospectus)

2019

- Complete the various demonstration/pilot projects the company has commenced
- Incorporate ClearVue's technology into a larger commercial building in Australia for the first time
- Complete and achieve IEC and UL accreditations by end Q2 2019
- Continue and complete commercialisation steps during 2019
- Continue discussions throughout 2019 with potential licensees for manufacture and assembly/distribution worldwide and seek to sign various licensees worldwide flowing from such discussions
- Continue R&D and product development work to ensure the company is well positioned as a global leader in building integrated photovoltaics and smart building materials



Worldwide Energy Generation



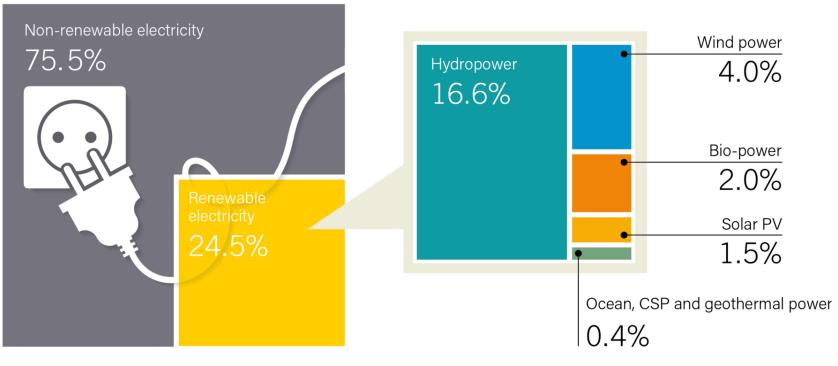
REN21 Renewable Energy Policy Network for the 21st Century

ISON,

The sun's potential for power generation far exceeds that of all other renewable energy sources. However, solar power barely registers in the world's renewable energy portfolio with only 23,322 terawatt-hours (TWh) of a potential ≈750,000 TWh available from solar*.

Presently solar generation accounts for only a fraction of a percent of total electrical output – much less than hydropower or wind energy, which until recently have been cheaper to produce.

Estimated Renewable Energy Share of Global Electricity Production, End of 2016#

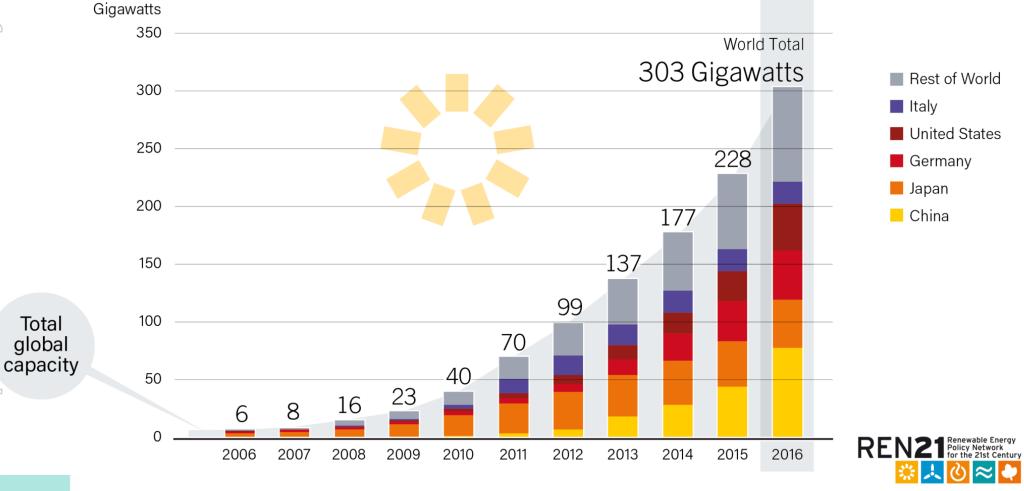


* As at 2008 see: https://en.wikipedia.org/wiki/Electricity_generation#Production_by_country # See: REN21 Renewables 2017 Global Status Report

Solar PV Global Capacity*



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*by country and region 2006 – 2016 –see: REN21 Renewables 2017 Global Status Report

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Market Opportunity

Traditional Roof Solar and PV Array Opportunity

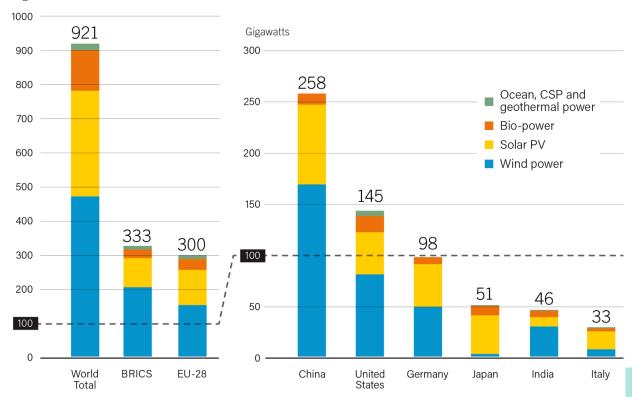
Worldwide growth of traditional photovoltaics has averaged 40% per year from 2000 to 2013
 Total installed PV capacity reached 303 GW at the end of 2016 with China having the most cumulative installations (78 GW)
 According to the latest "Global Solar Demand Monitor" from GTM Research, installations in 2018 will reach 82.5 gigawatts#. After that, annual installations are predicted to exceed 100 gigawatts each year until at least 2022.

All of these figures (and the stats on earlier slides) largely ignore the impact of BIPV!

#(originally forecast at 104 gigawatts but downgraded due to reduced activity in China)
 * BRICS – the emerging national economies of Brazil, Russia, India, China and South Africa.

Renewable Power Capacities in World, BRICS*, EU-28 and Top 6 Countries - 2016

Gigawatts

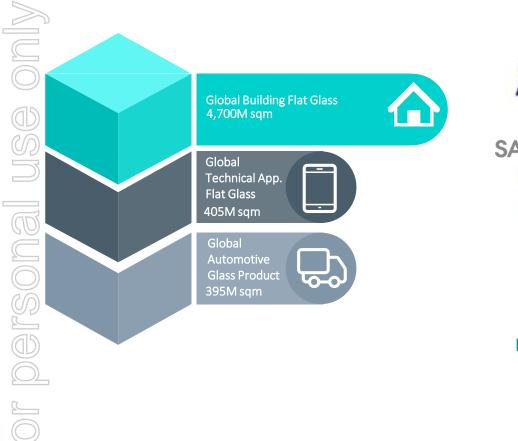




REN21 Renewable Energy Policy Network for the 21st Century

Market Opportunity

Global Glass Market



Global Glass Market Su	Global Glass Market Suppliers			
AGC	15%			
SAINT-GOBAIN	14%			
RISC	13%			
GUARDIAN	12%			
Market share	54%			

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Total Glass Market Size 5,500 sqm pa in 2011 (NSG Group and the Flat Glass Industry Report 2011).

- The construction glass industry is predicted to reach USD \$111 Billion by 2020 (Technavio)
- Global green building expected to double by 2018 (World Green Building Council)



ClearVue's Opportunity



Market Drivers

US\$310 Billion

investment into clean

energy in 2014+ 16%

€ \$23 Billion

Value of the flat glass market



37% increase in global energy demand

5,500 million

square metres of glass produced each year

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 Building Integrated Photovoltaics Opportunity

- Global market for building-integrated photovoltaic (*BIPV*) technologies was USD \$2.4 billion in 2016
- Market to grow to USD \$4.3 billion by 2021 (with a compound annual growth rate (CAGR) of 12.2% for the period 2016 to 2021).

Source:

https://www.bccresearch.com/market-research/energy-and-resources/building-integrated-photovoltaics-markets-report-egy072C.html

ClearVue's Business Model



ClearVue will derive revenues from:

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- Direct sales (initially) by sale and supply of the Company's assembled products direct to distributors and licensed channel partners worldwide. The company will also continue to sell technology/product components to its licensees;
- Licences the Company intends to charge a fee to manufacturers and distributors for the right to manufacture or distribute and sell the ClearVue product; and
- Royalty payments the Company intends to charge a flat royalty fee per sqm of ClearVue glass/technology sold by a manufacturer or distributor business, with the rate to be determined.



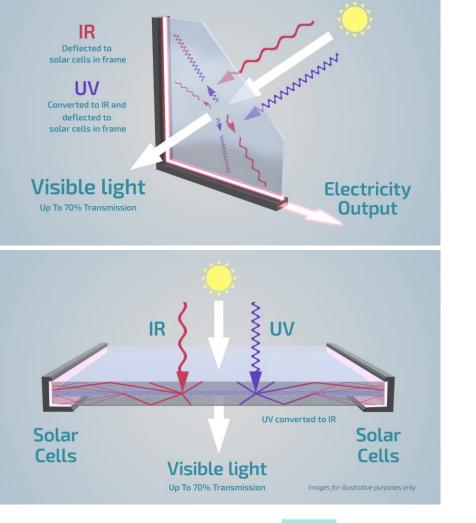
ClearVue's Technology

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An overview of ClearVue's technology

- Visible light (VIS) passes through the glass
 Micro & nano particles interact with Ultra Violet (UV) radiation which is downconverted to longer wavelengths and scattered along with Infrared (IR) light to the edges of glass
- IR is collected by PhotoVoltaic (PV) cells -Produces electricity
- Reduces heat and blocks damaging UV and IR radiation
- Insulation properties reduce heating and cooling costs
- ClearVue has extensive IP protection on its technology and products





Video: Technology and Product Opportunities Explained



Click on blank screen on left to play video.

OR play from:

http://www.clea rvuepv.com/pro ductssolutions/techn ology/

Product Opportunities





Smart Window Solutions

(Monitoring, sensors and IoT integrations)



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Commercial & Residential Applications



large market opportunity – at the moment demand for BIPV solutions is limited by product characteristics - no high energy performing and architecturally accepted transparent colourless products except from ClearVue

- By 2025 there will be more than 29 mega cities with 10 million plus people*
- Buildings can be a significant source of their own energy needs
- Insulation properties reduce heating and cooling costs
- Building owners obtain a faster payback from energy generating structures
- Skylights are the fastest new window market globally

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



Public Amenities & Agriculture

Free energy in public places, e.g. libraries, or charge your mobile phone at a bus stop

Provide energy in developing countries in public buildings such as schools without large plots of adjacent land needed for solar arrays

Awnings, Atriums, Skylights, Road barriers Waste management services and water purification

Powering IoT sensors and building electronics

Food and food security is a global multi billion dollar industry. Key markets are China, Europe and USA.

Technology presents opportunity for self powering greenhouses





Summary



In the six (6) months since listing on the ASX on 25 May 2018 the Company has achieved the following:

- Australian standards (Intertek) certification testing completed and EU certification (CE) on ClearVue window
- Design breakthrough to simplify product manufacture and increase market opportunities
- □ Product certification commenced for US market (UL) and for EU (IEC)
- Production commenced on glass units for use in pilot projects and for trade shows
- □ MOUs signed with:

- Mirreco for supply of glass for use with their hemp-based building system and hemp-based eco mini homes. Demonstration eco mini home progressing;
- Murdoch University as a site for the CRC-P funded greenhouse and for working with MU plant science researchers to demonstrate CV greenhouse performance;
- □ yStop for using ClearVue in bus shelters and outdoor advertising opportunities in WA;
- IoTStream for integration of IoT solutions with ClearVue's glass whitelabel app prepared for use with ClearVue product installations; and
- Zurreal for integration of ClearVue glass with Zurreal's art glass for niche architectural and advertising applications.
- Major product launches at trade shows in Australia (Fenestration 2018 Pt Douglas Sept), Europe (Glasstec 2018 – Dusseldorf - Oct) and North America (Greenbuild 2018 – Chicago - Nov)
- Pilot projects commenced
- Licensing discussions commenced (Worldwide) flowing from the trade shows



Questions?

Thank you for your attention – any questions?



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