



ENDLESS SOLAR CORPORATION LIMITED
ABN 51 122 708 061

NATIONAL STOCK EXCHANGE CODE: ESCLV

DATE OF ANNOUNCEMENT: 13th June 2024

Dear Shareholders,

It is with great pleasure that the Endless Board provides the attached June update.

This update confirms the considerable progress made with the “Cool Solar Technology” and substantiates the massive potential value of Endless Solar Corporation.

For further information please ring David Craig on 0419 384 059 or Kevin Mooney on 0418 220 602.

Yours Sincerely

David Craig
Director
Endless Solar Corporation Limited

www.endless-solar.com.au

Office: 555 Old Moorooduc Road Tuerong VIC 3915

Regarding distributed power. Please see attached The Herald Sun 14th February 2024 front page - Titled " DARK .AGES".

Cool Solar – Project Update June 2024

Major Milestone Achieved

The engineering prototype has successfully achieved a major project milestone:

Milestone 2A – Successful demonstration of ejector driven cooling using hot water as the primary energy source.

Work has now commenced on delivering the next major milestone, high level design of a pilot system for field testing.

Background

The Cool Solar technology was originally developed by Dr. Mike Dennis at the Australian National University (ANU). The technology has been demonstrated successfully in the laboratory at the ANU. Endless Solar's current patents are the result of that laboratory research program. The advent of an improved design plus low-cost 3D metal printing has enabled the commercialisation program to proceed. In addition, the design of the system has been optimised to use the next generation of environmentally friendly HFO refrigerants. The air conditioning market will inevitably be driven to use these refrigerants by international protocols in place for phase down of the current generation of refrigerants.

Australia's energy demand is increasing however there is comparatively little investment in renewable dispatchable power. Cool Solar will be able to deploy demand side dispatchable capacity at grid scale but without the approval delays associated with current grid scale renewable energy projects. Additionally, increasing energy costs and the continuing reduction of solar feed in tariffs provides incentive for consumers to seek greater independence from electricity providers. Cool Solar is well placed to provide consumers with choice.

What Cool Solar Does

Cool Solar provides all season air conditioning and hot water while simultaneously reducing electrical grid load. It does not require investment in poles and wires. It aims to reduce or eliminate greenhouse gas emissions and grid electricity demand for air conditioning and hot water provision. Cool Solar represents a paradigm shift in air conditioning efficiency.

The Cool Solar technology is distributed infrastructure designed to make every site where it is deployed significantly less reliant on the energy grid. The target is to achieve 80% reduction in heating/cooling energy and hot water costs for every site. For a medium sized house in Melbourne with 3 to 4 people the saving over a year would be around 24kWh per day (averaged over a year).

Engineering Prototype Status

The engineering development prototype is now operational. The prototype is successfully producing refrigerated air using hot water as the primary energy source.

Performance testing has commenced to enable accurate calibration of the simulation models.

Commercially Confidential

Simulation Models

Calibration of the static simulation model has commenced based on actual performance data from the prototype. Accurately calibrated simulation models will be used to design the pilot system for field testing.

Potential Impact¹

As an indirect comparison, 1.3M to 1.4M installations would be of the order of magnitude of Victoria's Loy Yang A power station. Loy Yang A is rated at 2200MW and is scheduled to close in 2035. Loy Yang A produces around one third of Victoria's electricity.

Each Cool Solar installation reduces the demand on the grid. Unlike other renewable energy solutions, Cool Solar does not drive any investment or upgrades to the existing electrical infrastructure and distribution system (poles and wires).

1. Individual site's electricity consumption varies enormously depending on such things as the building's energy star rating, use of natural gas, number of occupants, location and so on. The estimates noted are intended as a generalised guide.

Total Available Market Size

The Cool Solar system is a modular design. The base module is intended for residential buildings, regular street retail and small office-warehouse sites. Arrays of modules can be used for larger sites such as schools, larger retail and factory sites.

Australia

The Australian Total Available Market (TAM) is estimated to be in excess of 8-10 million sites.

Rest of World

Estimating the TAM for the markets in which Endless Solar have patents is challenging. As an indication of market size and growth, according to the International Energy Agency², the global stock of air conditioners in buildings will grow to 5.6 billion by 2050, up from 1.6 billion in 2018 – which amounts to 10 new ACs sold every second for the next 30 years.

2. <https://www.iea.org/news/air-conditioning-use-emerges-as-one-of-the-key-drivers-of-global-electricity-demand-growth>

Andrew Hynson
Chairman, Endless Energy Solutions
12 June 2024



TAYLOR'S KISSES & MISSES

SWIFTY VALENTINE'S DAY SPECIAL **PAGES 18-19**



PART 4 OF YOUR LIFE-SIZE TAYTAY POSTER
PAGE 24



ULTIMATE SUPERCOACH TRACK WATCH

KEY INSIGHTS AT EVERY CLUB **SPORT**

WEDNESDAY, FEBRUARY 14, 2024

\$2.80 (inc GST) HERALDSUN.COM.AU

Herald Sun *We're for you*

Electricity cut to 500,000 homes, businesses as state's key power station shuts down in storms and heat, with fears of more blackouts



Transmission towers near Anakie crumpled in the storms and extreme heat, and (below) a huge tree uprooted in Bentleigh East.

DARK AGES

Matt Johnston
Alex White

Half a million properties were left without electricity on Tuesday during one of the worst power failures in a decade, sparking concerns wild weather and ageing stations could

produce regular blackouts. Extreme heat and storms combined to crumple six transmission towers near Anakie, north of Geelong, taking the state's biggest electricity generator in the Latrobe Valley offline at 2pm, and forcing network operators to turn off the power at hundreds of

thousands of homes and businesses. The power crisis started just after 1pm on Tuesday when high-voltage lines from Moorabool to Sydenham in Melbourne's west were brought down by severe winds. Once the lines went down, all four generators at AGL Energy's Loy

Yang A power plant began to overload and were shut down to avoid serious damage. Electricity was restored to 90,000 homes by 4pm and power companies were last night working to reconnect thousands more. **FULL REPORT, PAGE 5**



Ambos: We'll walk

EXCLUSIVE Shannon Deery

Victoria's ambulance union has proposed a suite of 26 disruptions including walking off the job in an escalation of its pay dispute.

Under proposed industrial action before the Fair Work Commission for approval, paramedics would stand down for up to an hour and abandon ED protocols, among other measures. **FULL REPORT, PAGE 3**

LISA'S LOGIES SPEECH FURY: I WAS ABANDONED BY TEN

WILKINSON AT WAR, PAGE 4

Watchdog on fat cat

Matt Johnston

The opposition has referred the appointment of the state's former pandemic response and Commonwealth Games boss to a plum new public sector role to an integrity watchdog. Jeroen Weimar has been given a new six-month role to lead the government's housing policy in the Department of Premier and Cabinet, a position worth up to \$533,000 a year. **FULL REPORT, PAGE 11**

10 MUST-SEE SHOWS: BINGE 7-DAY TV GUIDE

LIFTOUT STARTS, PAGE 25