

Greenearth Energy Ltd

Annual General Meeting
29th November 2016

Energy Efficiency Solutions
Intelligent, Sustainable, Profitable



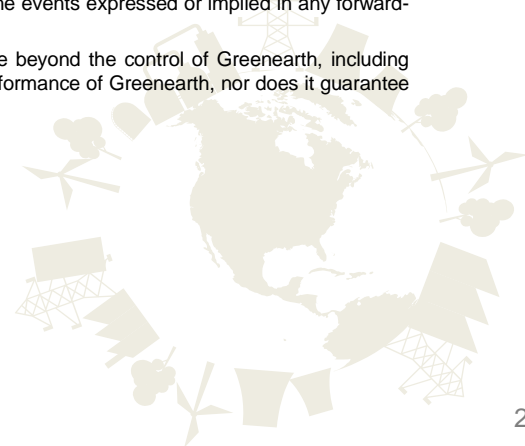
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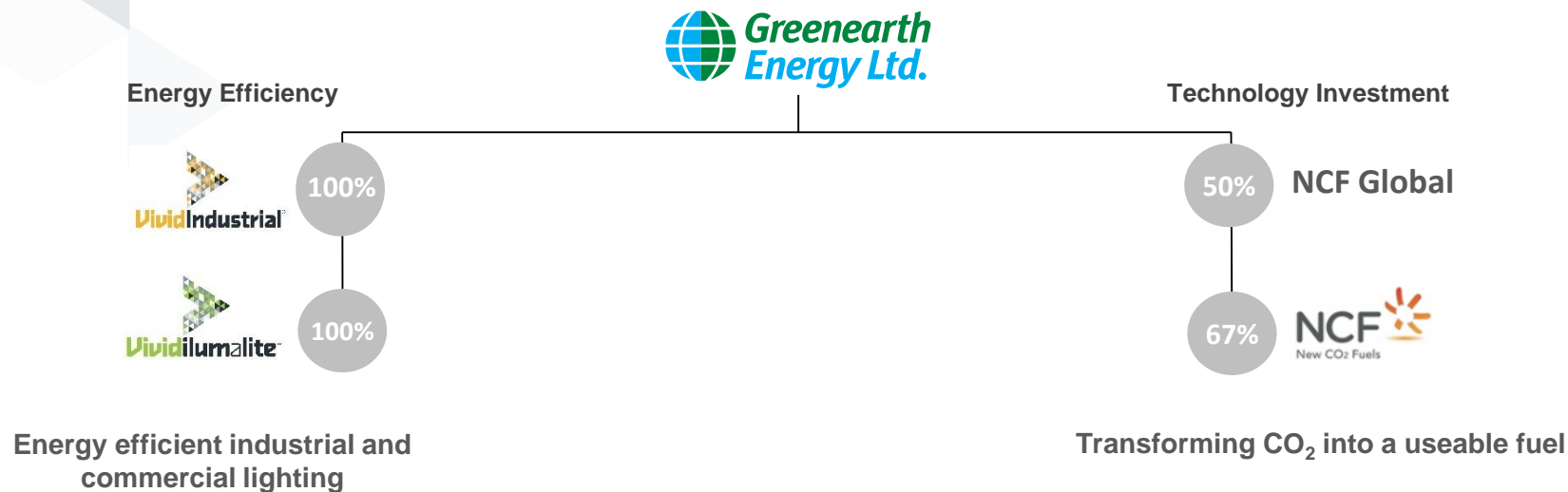
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Our Company

Group Structure



Our Company

Group 2016 Key Achievements



✓ Strengthened Board



New Board members Charles Macek and Leslie Butterfield provide further significant depth and commercial experience and expertise

✓ Transitioned from Mining to Industrial classification



Classification reflecting underlying changing nature of business

✓ Acquisition integration successfully underway



Recent completion of subsidiary rebranding to develop uniform face to market of the overall group's capabilities

✓ Reported 215% increase in revenue



Total Group revenue showed substantial increase to prior year, reflecting the level of activity undertaken

✓ Positioned for continued strong growth in 2016/17



Solid pipeline opportunities from multisite and existing and new customer sites provide solid foundation for growth over the next year

ENERGY EFFICIENCY



VividIndustrial™



Vividillumalite™

FY 2016 Achievements



- ✓ Rollout of new MATRIXX® product variants



Different MATRIXX® product variants launched to meet targeted market segments and broaden product reach capability

- ✓ Acquisition of Ilum-a-Lite (Commercial Focus)



The acquisition of Ilum-a-lite, which has since been rebranded to Vivid Ilumalite has opened up the commercial market segment and subsequent growth opportunities through cross selling

- ✓ Continued proving differentiated technology including CSIRO partnership



Continuing to maintain manufacturing innovation in Australia, in conjunction with the CSIRO advanced manufacturing division, along with international partners

- ✓ Industry Award Recognition



Awarded the 2016 Growth Excellence in Smart Lighting Solutions award by Frost & Sullivan

FY 2016 Achievements



- ✓ Successfully delivered complex and multisite projects



Continued success in the commercial market segment through both direct sales opportunities and in partnership with large integration operators, RMIT University and 6 NSW Regional Hospitals

- ✓ Building on EPC focus & relationships



Increasing focus on servicing Energy Performance Contract (EPC) opportunities for Australia and New Zealand

- ✓ Intensified presence in University and Healthcare verticals



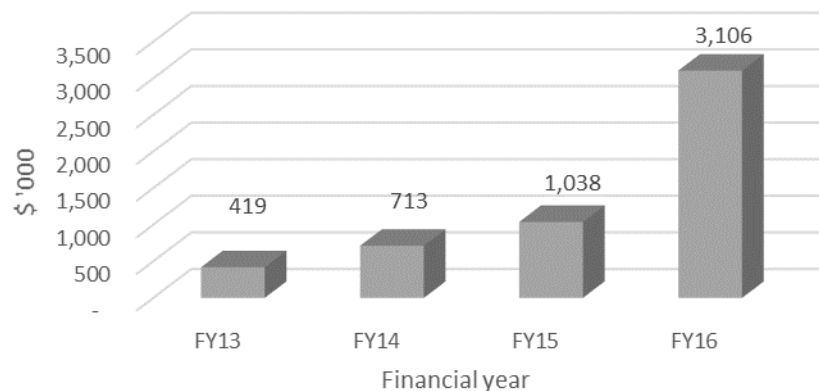
Increased successful penetration into University and Healthcare verticals creating increased trusted supplier and advisor capability

Our Performance

Energy Efficiency Financial Performance

- ▶ Year on year revenue growth for Energy Efficiency Segment of 199% underpinned by increased lighting systems sales and part-year contribution from acquisition
- ▶ Scale-up and roll-out of full scale sites providing a diversified and strengthened revenue stream
- ▶ Sales pipeline growing and containing a good mix of smaller contracts and high value installations, along with long term revenue opportunities
- ▶ Targeting ongoing revenue growth for 2017 across Australian and International customer base

Energy Efficiency
Segment Revenue



Our Platform Advantage

An Internet of Things Connected Eco-System

A FUTURE PROOF INTELLIGENT SOLUTION WHICH MAXIMISES ENERGY EFFICIENCY
SAVINGS FOR CUSTOMERS

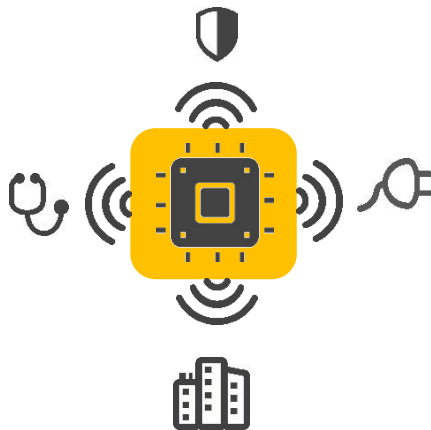
▶ LIGHTING PLATFORMS

New intelligent lighting platforms have changed the capability of metering and control

▶ HOMOGENEOUSLY SPACED

The ubiquitous instances in lighting fixtures at pre-determined intervals provides for a ideal platform to monitor, report and control environments

Lighting
"Ubiquitous & Powered"



"Homogeneously spaced"

▶ EMBEDDED SENSORS

The increased capability and reduced cost of embedding sensors as part of the lighting framework to provide a holistic view of the monitored environment

▶ ALWAYS POWERED

Intelligent Lighting platforms provide power and communication to facilitate sensor deployment and data transmission capability

Connected Smart Lighting brings a whole new range of value added services

Our Solution Advantage

Evolving to sell LIGHT ... Not Just LIGHTS

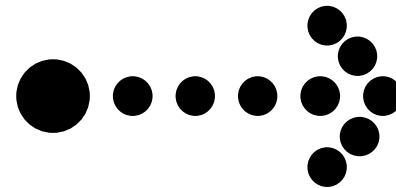
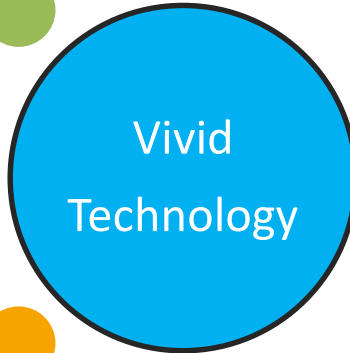
Lighting as Energy Efficiency



Lighting as a Service



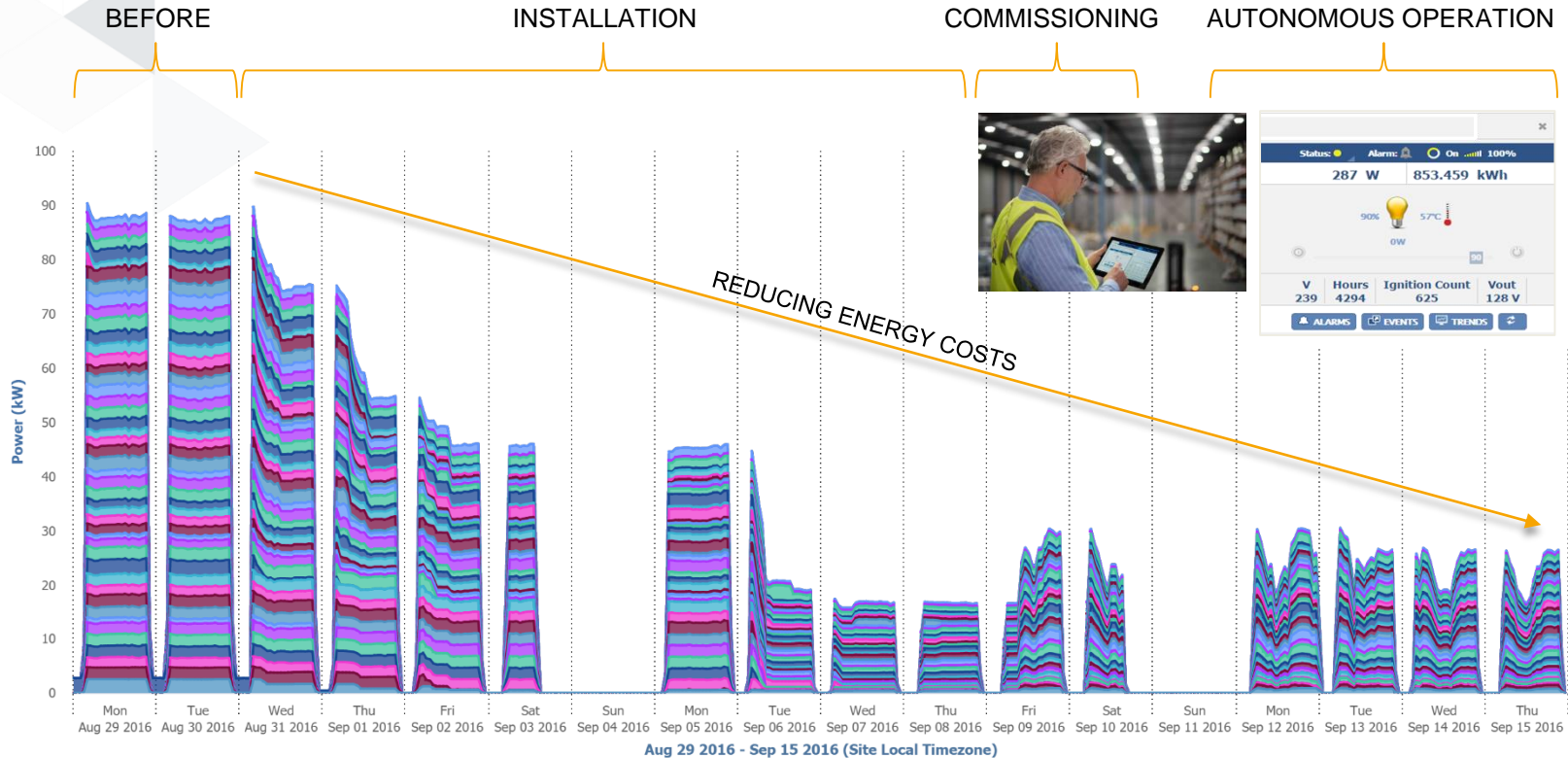
Lighting As A Platform



Intelligent
Efficient
Lighting
Systems

Our Capability Advantage

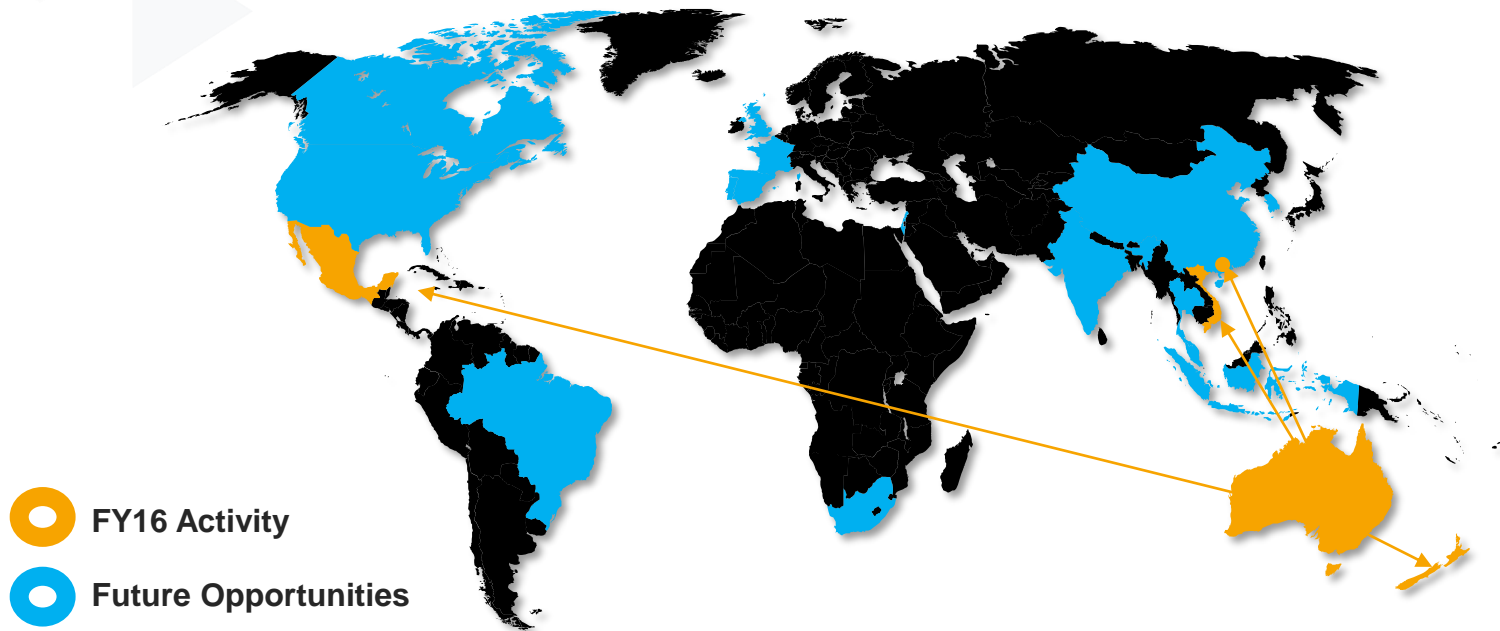
Real-Time Intelligent Control, Monitoring and Reporting Reduces Energy Costs



Our Reach

Global Expansion

- ▶ Our MATRIXX product was designed with global reach and capability in mind
- ▶ Validation of expansion opportunities across South East Asia and Latin America underway

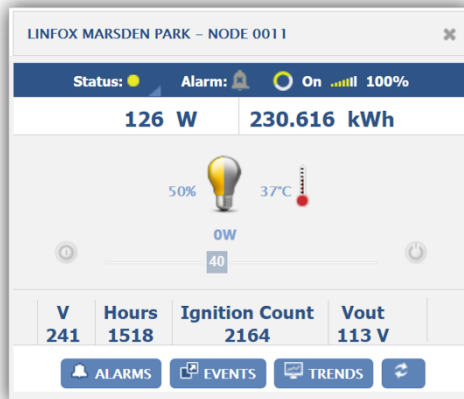


Our Success

Linfox Warehouse - DULUX

Case Study

Industrial



The left image is an example of a luminaire element dashboard from Vivid Industrial's cloud based monitoring & control system.

Snapshot

>85%

Energy Savings

Intelligently controlled LED lighting system

Whole of site solution

Constant lux, daylight harvesting, occupancy control, thermal management, online monitoring and reporting

Our Success

RMIT

Case Study

Commercial



Honeywell



Snapshot

>55%

Energy Savings

Significantly reduced
maintenance requirements

Improved user comfort and
light levels

Reduction in annual
greenhouse gas emissions:
1818 t CO₂-e

Technology Investment

2016 Achievements

- ✓ Established new holding structure



“NCF Global” established to assist next stage investment with majority stake in NCF

- ✓ Focus on commercialisation with global partners



Activity focus now firmly on realising commercial opportunities from proven technology with global partners

- ✓ Continued International recognition and awards



NCF continues to receive international recognition and accolades including RushLight Awards and the RedHerring 100 award

- ✓ Term Sheet signed with Sinopec Engineering Group



A significant step in moving from pilot to commercialisation stage undertaken with the signing of term sheet with Sinopec Engineering Group



CO₂ emission reduction can be profitable

- ▶ Over \$1 Trillion accessible market, with \$24 Bn market in the steel and gasification industries alone
- ▶ Attractive typical product having an unleveraged estimated IRR's:
 - >45% (Gasification facility);
 - >20% (Steel Production plant)
- ▶ Profitable without government subsidies
- ▶ Highest energy efficiency rate and most flexible solution in the market
- ▶ Clean synthetic fuel production from using abundant industrial waste (CO₂) and H₂O as feedstock



Market Potential

Significant Market Opportunity of >\$1Trillion

Short Term opportunity

Industrial Excess Heat Driven Market

Type	Avail Heat* (TW _t per annum)	Mkt Sale (US\$ billion)
Steel	130	\$13.9
Gasification (existing facilities)	70	\$7.2
Other Metals	50	\$3.1

* Above 1000°C

* 1 Twh = 1,000,000,000,000 (watt hrs) PA

US\$24.2b

NCF product is expected to cut 1-5% of a plant's CO₂ emissions being over one third of the current objectives of emissions reduction



Medium Term Opportunity

Solar Driven Market (Selected Sources of CO₂)

Type	CO ₂ Emission (t CO ₂ -e)	Mkt Sale (US\$ billion)
Power Generation	504m	\$670
Gasification	252m	\$340
Gas Wells	53m	\$70

US\$1,080b

NCF will first target the excess heat market, which has higher economic returns, then the solar market as a stage 2 revenue opportunity. This trillion dollar market remains a real opportunity.

Note: market potential is for CO₂ to methanol systems based on NCF technology

Global Recognition

Awards, Accolades, Grants & Partners



WorleyParsons
resources & energy



Australian Government
**Bureau of Resources
and Energy Economics**



Ministry of Economy
משרד הכלכלה



U.S. DEPARTMENT OF
ENERGY

ALSTOM



Rushlight Awards
Commended 2015/16



BLOOMING



Acumentrics
Trusted Power Innovations



Commercialisation Phase

Significant Market Opportunity in China



- ✓ Sinopec is a State Owned Chinese corporation which is one of the worlds largest companies ranked second in the Fortune Global 500 in 2015, with reported revenues of US\$447b
- ✓ NCF entered into a term sheet with **Sinopec Engineering (Group) Co Ltd (SEG)** to commercialise NCF's award winning CO₂ to fuel technology for the Chinese market.
- ✓ SEG will take joint responsibility for commercialisation in China, providing engineering for pilot and commercial plants



- ✓ BBT is a private company based in Beijing, China and engaged in a broad range of sectors including resources, energy related technologies, industry parks, funds management and project development
- ✓ NCF has entered into a term sheet with **Blooming (Beijing) Technology CO Ltd (BBT)** to lead sales and marketing of NCF's award winning CO₂ to fuel technology in China
- ✓ BBT will be appointed as NCF's agent in and look to lead the sales and marketing efforts of NCF's award winning CO₂ to fuel technology in China, and also introduce Chinese investors.

Pilot Testing Facility

Proven Testing Ground

A pilot running for a year has the equivalent CO₂ conversion capability as 6,000 Trees



NCF Pilot Facility design

Key Facts:

- ▶ Operating temperature >800°C
- ▶ 160 Tonnes of CO₂ processed per year
- ▶ CO₂ processing capacity at the rate of 250Kg/day per unit (IE 500kg per day)
- ▶ Designed to be built, tested then shipped to industrial sites



The China Opportunity

So what does this mean?

Engineering
Partner

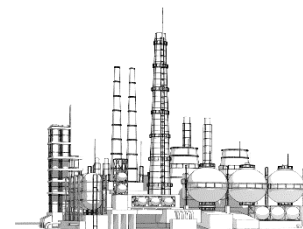
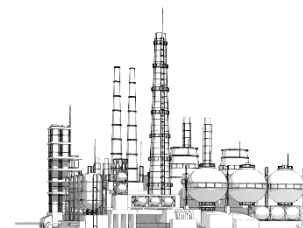
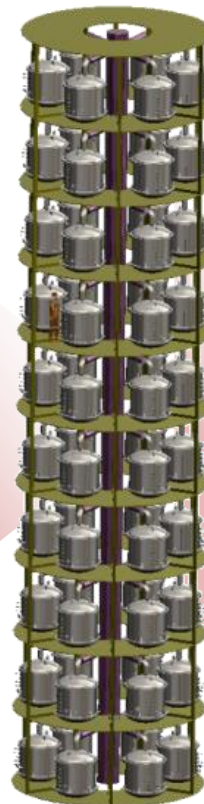


Sales &
Marketing



Investment
Partner

In negotiation
via SEG



- ▶ China represents >40% of the CO₂-to-fuel market globally
- ▶ Strong support from Chinese government for COP21
- ▶ Rapid roll-out opportunity with largest fully integrated oil, gas and engineering company in the world; **SEG**



-
- A world map with a black background. Countries are colored in two shades of red. Darker red indicates countries that have signed the initiative, while a lighter red indicates countries where the initiative is under discussion. The map shows the following countries in dark red: United States, China, and India. The following countries are in light red: Argentina, United Kingdom, France, Germany, Italy, Spain, Portugal, Greece, Turkey, Russia, Japan, South Korea, North Korea, Vietnam, Laos, Cambodia, Thailand, Malaysia, Singapore, Indonesia, Philippines, Australia, and New Zealand. The rest of the world's landmasses are black.
- World Climate Focus**
- Signed
 - In Discussion

- ▶ COP21 Paris summit (Dec'15) yielded an agreement of 196 countries to take pro-active measures to reduce CO₂ emissions
- ▶ COP21 treaty ratified November 2016 at national levels and is expected to accelerate the use of CO₂ reducing technologies
- ▶ Leveraging its product capability and expertise, NCF is ideally placed to take advantage of this demand opportunity



The Year Ahead

A Proposed Rebrand across the group

Why Rebrand

▶ **PRINCIPAL ACTIVITIES**

The intended rebrand would better reflect the company's main activities and technology leadership position in delivering world class technology-focussed solutions in the industrial energy efficiency and CO₂-to-fuel conversion markets. In the last financial year the company moved from a mining to an Industrial stock on the ASX and consequently is no longer actively involved in geothermal exploration and investment. Geothermal was the Company's principal activity when its shares were first listed on ASX in 2008 with the name Greenerth Energy Limited.

▶ **CONSISTENCY**

The proposed rebrand includes revised corporate livery to standardise the look and feel across the wholly-owned group, consistent with the established brand of Vivid Industrial

▶ **INTEGRATION**

The recently acquired subsidiary Ilum-a-Lite has also been rebranded to "Vivid Ilumalite" as part of its integration with the group

▶ **CONTINUITY**

The rebrand will not impact the existing branding of NewCO₂Fuels, in which the group owns a 33.33% economic interest

Our Structure

Proposed Rebranded Group



The Year Ahead

2017 Focus



- ✓ Proposed change of company name and ASX code
- ✓ Propagate and leverage name change in market
- ✓ Continue Digital Transformation execution

Energy Efficiency



- ✓ Focus on customer multi-site acquisition strategy
- ✓ Execute and accelerate International expansion focus
- ✓ Ongoing product development



- ✓ Continue to execute on core strengths of large scale lighting upgrades
- ✓ Leverage Vivid Industrial business models into the commercial market segment
- ✓ Solidify current partnerships / relationships

Technology Investment



- ✓ Develop recently signed term sheet with Sinopec and Blooming into commercial agreement
- ✓ Focus on product commercialisation
- ✓ Leverage current global interest from COP21

Our Company

An ASX listed company leveraging energy efficiency technologies

Profitable
Solutions



Smart Australian
Manufacturing

Green
Space



Global
Opportunity

Reducing
Emissions

CO₂



ASX
Micro Cap



Thank You

Energy Efficiency Solutions
Intelligent, Sustainable, Profitable

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