



Industrial Energy Efficiency Solutions: Intelligent, Sustainable, Profitable

Annual General Meeting

ASX:GER

25th November 2015



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EXECUTIVE SUMMARY



Greenearth Energy - founded in 2006; a clean-technology and renewable energy company with interests in:



Vivid Industrial

- The Internet of Lights, world leading technology.
- Industrial technology, fast growing opportunity pipeline & accelerating revenue growth

NewCO2Fuels

- Independently validated & globally awarded technology.
- Recognised global game changer now in the commercialisation phase

* GER commenced 33.33% investment in NCF with balance to be completed March 2016

FY15 – THE YEAR IN REVIEW



- Rebranded Vivid Industrial, established cashflow with Blue-Chip customers
- Developed, Launched & installed Vivid Industrial Matrixx Lighting systems, achieving >80% energy savings
- Significant growth in opportunity pipeline and appointment of International partners



- Global recognition achieved with awards, grants, research and partnerships
- Began development of pilot plants and commercialisation process
- Established structure for inbound investment



- Impairment of geothermal assets, discontinuation of business focus
- Repositioning GER from a mining exploration entity to an industrial business (ASX & GICS)
- Review of board composition to align to future direction of GER



Industrial lighting solutions the internet of lights



Customised and intelligent lighting & monitoring solutions
for industrial and infrastructure business

FY15 – RECENT SUCCESSES



Continued delivery of significant operating milestones

- Commercialisation & delivery of new Vivid Industrial product range (“Matrixx” lighting system)
- New customer verticals (e.g. port lighting & automotive retailing)
- Significant growth in revenue opportunity pipeline
- Establishment of initial overseas distribution partners in key territories
- Customer validation of Vivid Industrial’s world leading energy and cost savings
- Rolling out complimentary new energy measurement & data tools to customers (to establish recurring revenue)

FY16 YEAR TO DATE



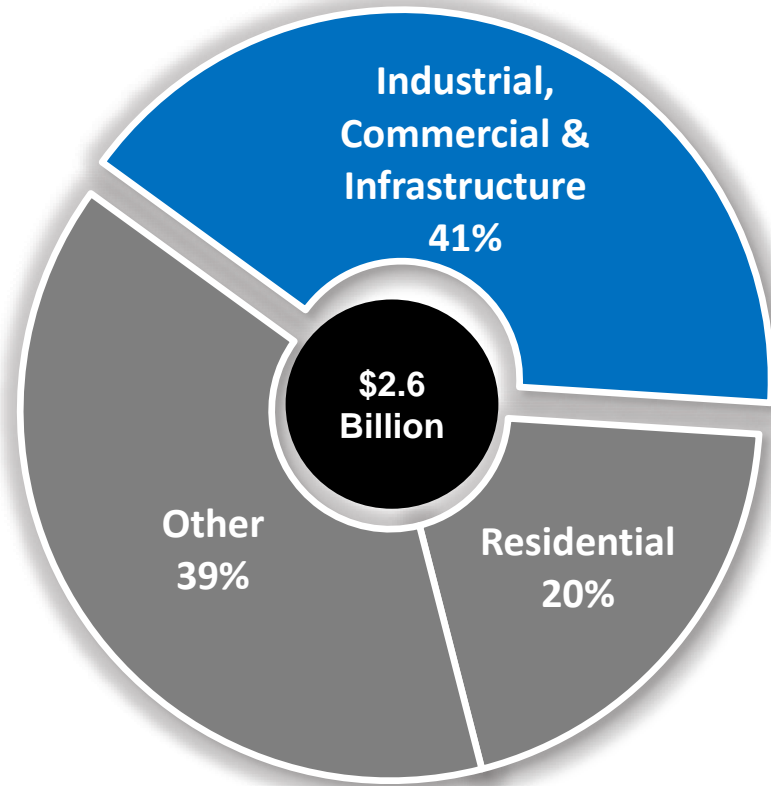
Strongest start to financial year in the company's history:

- FY16 sales revenue for first four months plus work-in-hand at 31 October 2015 exceeds total FY15 sales
- 81% increase in cash receipts from customers compared to prior corresponding period
- Customer receipts & forward orders will deliver strong growth in revenue
- Key driver of this strong start is new product range ("Matrixx" lighting systems), introduced September 2015

INDUSTRIAL LIGHTING MARKET OPPORTUNITY

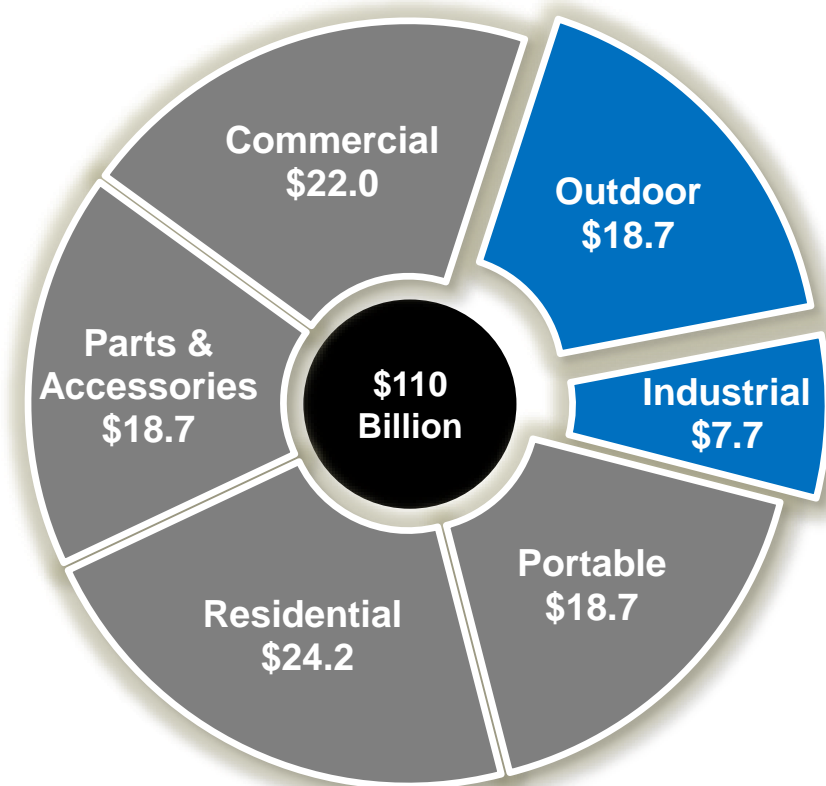
Very large and addressable market

Australian Annual Lighting Market (AU\$billion)



Source: Source McKinsey, IBIS and Comp Estimates

Global Lighting Market Annual Revenues (AU\$billion)



Source: Freedonia Research

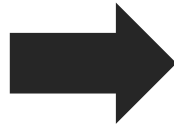
OUR PRODUCT & SERVICE MODEL IS WORLD LEADING



Technology & Service

**Innovative Proprietary Energy
Efficient Lighting Systems**

“Plug and Play”



Monitoring & Control

Cloud based analytics



Cost Benefits

**80%+ energy + cost savings to
customers**



OUR RESULTS SPEAK FOR THEMSELVES

Example: Vivid Industrial system delivered >6 times more light with <25% of the prior energy usage



Existing Lighting	
Metal Halide highbay (1760W)	
Average:	20(lux)
Ave operating load:	1.8kW



Vivid Industrial installation	
Matrixx System (850W)	
Average	426(lux)
Average operating load:	0.39kw

Delivering customer interface,
monitoring & reporting
capabilities



All photos taken at the same site, same time, with the same camera and exposure settings and no post processing applied

CASE STUDIES

Proven and validated, with repeat blue-chip customers...



Melbourne Ports F-Appleton Dock

- **> 75% Energy Savings**
- **10 Years Maintenance Free**
- **Increased light levels by > 150%**
- **Reduced spill light into local housing**



>75%
Energy Savings

Luminaire
400w LED Floodlight
800w LED Floodlight

Annual kWh Saved
91,600 kWh;s

Annual CO₂ Saved
119 Tonnes

Total Greenhouse Savings >75%



Linfox QLD Distribution Centre

- **Reduced lighting energy consumption by > 80%**
- **Zero scheduled maintenance for 10 years**
- **Complied with Australian Standards and OH&S lighting requirements**
- **Reduced quantity of light fittings & associated installation costs**



>80%
Energy Savings

Luminaire
Vivid Industrial Matrixx intelligent lighting system

Annual kWh Saved
556,041 kWh's

Annual CO₂ Saved
528,239 Tonnes

Total Greenhouse Savings 80%

FY16 – LOOKING FORWARD



Accelerate customer wins and installations

- Accelerate growth in market share and revenue contribution
- Hiring of new dedicated sales & marketing staff
- Capitalising on initial installed sites with our blue-chip “multi-site” customers;
 - Execution into their wider portfolios
- Support revenue contribution from distribution partners (domestic and foreign)
- Roll-out of recurring revenue opportunities
- Completion of inorganic growth opportunities to accelerate cashflow and channels to market

Producing Fuels from CO₂ Using Heat as the Energy Source



Industrial scale production of fuels from CO₂, using heat as the energy source

NCF HAS THE POTENTIAL TO CHANGE THE WORLD

Turning CO₂ into Profitable Products

- The total market for NewCO₂Fuels is over \$1 Trillion Dollars
- The system only uses industrial waste streams (heat and CO₂), and turns it into profitable by-products;
→ Diesel, Plastics, Ammonia, Fertilizers etc...
- The system is modular and compact enabling flexibility of installation
- The system is proven, achieving world leading efficiency

Food for thought.....

There are 13.2 million passenger vehicles in Australia, consuming 18.9 billion liters of fuel (Petrol / Diesel)*

Using NCF's technology, the equivalent amount of fuel could be produced by processing ~35M tons of CO₂
→ **Only 9% of the total CO₂ emitted in Australia per annum****



***Australian Bureau of Statistics:** Survey of Motor Vehicle Use, Australia, 12 months ended 31 October 2014

** TRENDS IN GLOBAL CO₂ EMISSIONS 2014 Report; European Commission – Joint Research Centre

A MODULAR PRODUCT

One unit running for a year has the equivalent CO₂ conversion capability as 3,000 Trees.

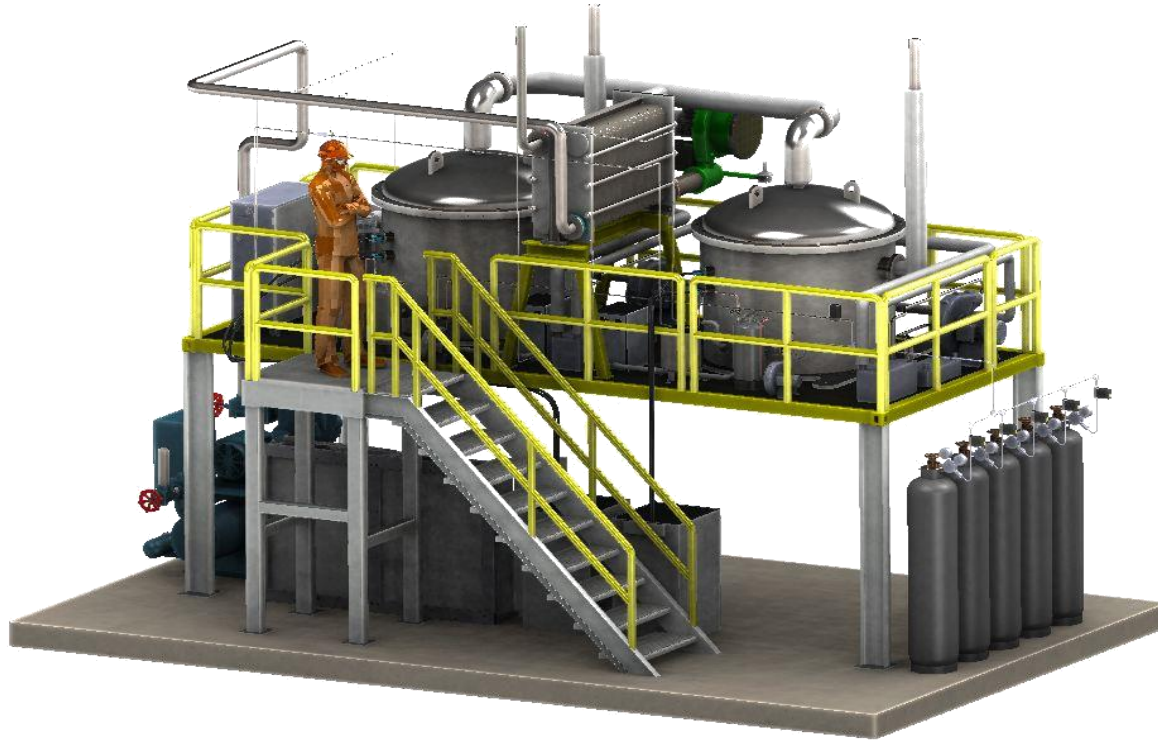


Measuring 1.5m x1m
NCF reactor unit design



A PILOT TESTING FACILITY EXAMPLE

Pilot running for a year has the equivalent CO₂ conversion capability as 6,000 Trees.



NCF Pilot Facility design

Key Facts:

- Heat source >600c
- 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

GLOBAL RECOGNITION & RELATIONSHIPS

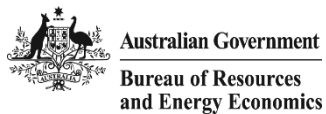
Independent Technical Assessments



Partners Established

- Global Steel manufacturer
- World leading fuel-cell manufacturer
- Global Gasification Plant manufacturer
- 2 international engineering companies
- Major Power Generator in Israel
- The Weizmann Institute of Science in Israel

Awards / Recognitions / Government backing



Australian Liquid Fuels
Technology Assessment 2014



Ministry of National Infrastructures,
Energy and Water Resources



Ministry of Economy
משרד הכלכלה

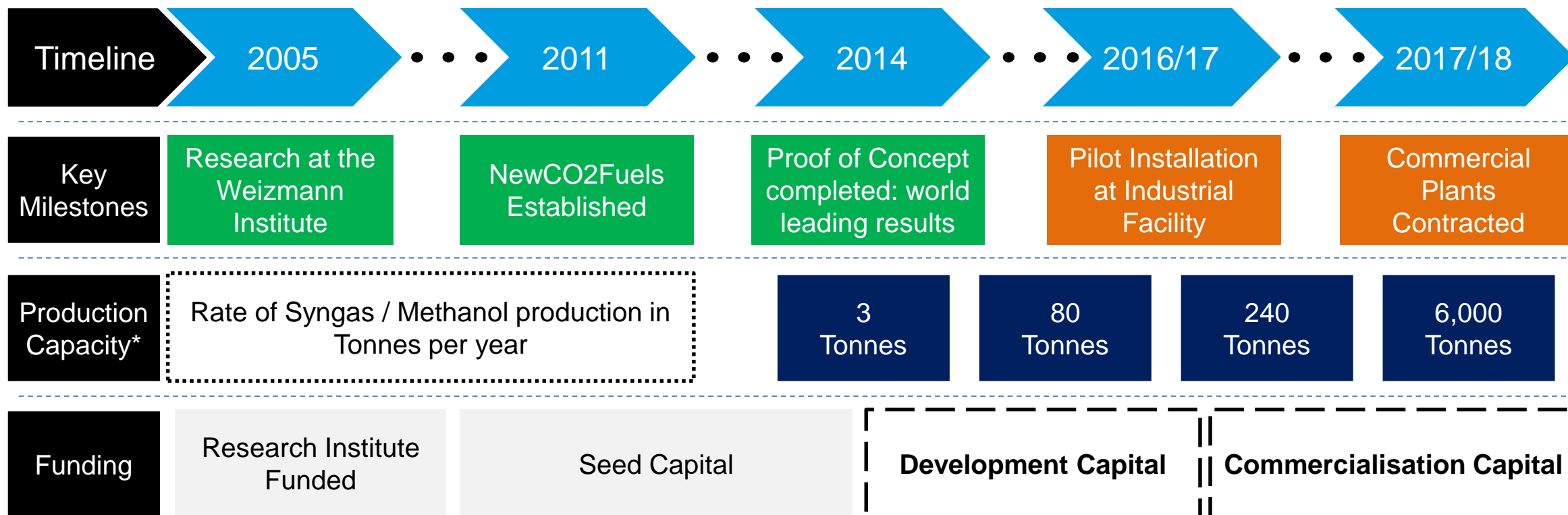


U.S. DEPARTMENT OF
ENERGY



TIMELINE AND MILESTONES

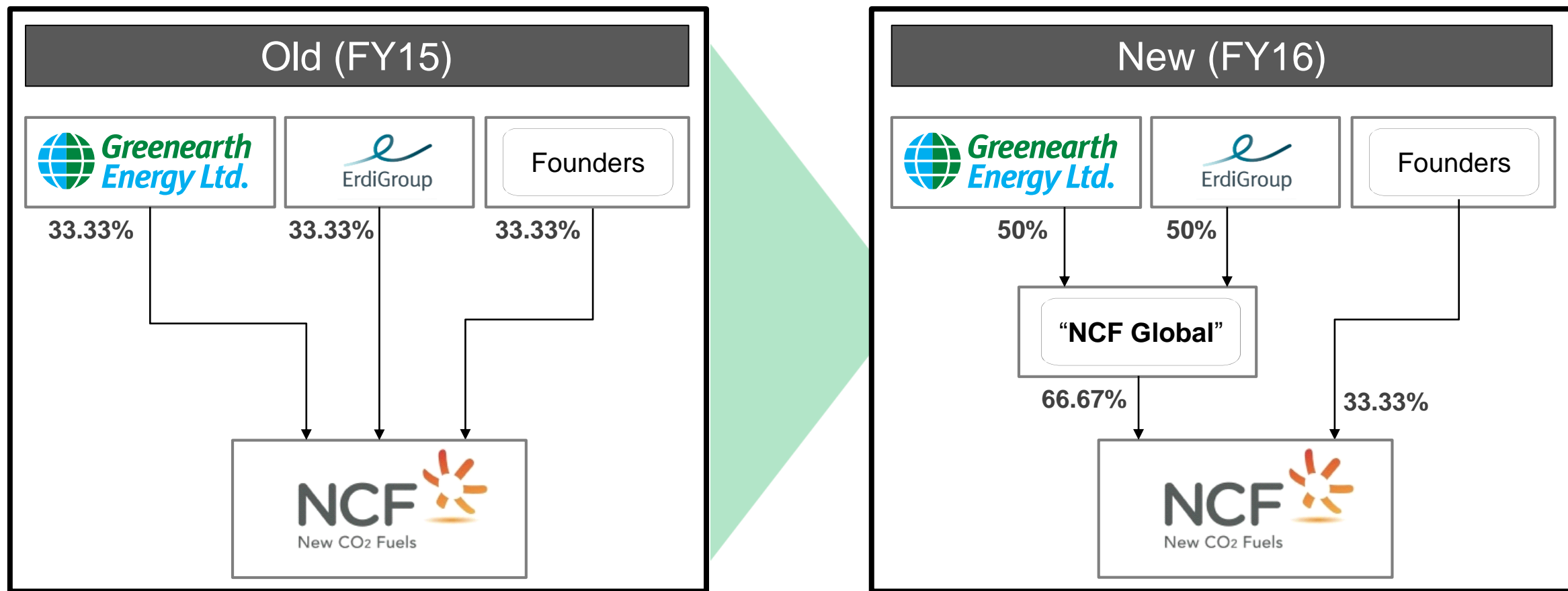
Since 2011, NCF has a proven product and is entering the commercialization stage



* Production Capacity figures based off current performance of reactors in pilot testing, actual contracts require more or less CO2 production in Commercial Plants



NEW STRUCTURE FOR NCF INVESTMENT



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

LOOKING FORWARD

FY16

- Ongoing design and development of commercial scale pilot facility at MOU stage
- Development of additional pilot plant(s) in USA, EMEA and APAC
- Working with global partners on developing commercial plant designs and reviews across a range of industries
- NCF business development focused on alignment with global partners for accelerated commercialisation
- New investment structure to enhance opportunities for investors to unlock value in NCF





- New Board appointments to align to future GER direction
- Review Hold Co entity name... creating broader investment market awareness

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- Accelerate revenue growth and market share
- Review inorganic growth opportunities & recurring revenue opportunities

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- New structure for investment in NewCo2Fuels to enhance opportunities for value
- Establish additional industry partners, enabling pilot plants & deployment of technology

CONTACT

Annual General Meeting – November 2015



Industrial Energy Efficiency Solutions: Intelligent, Sustainable, Profitable

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