

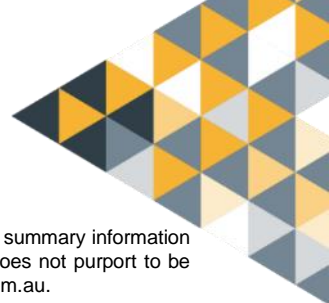
Greenearth Energy Ltd



7th Australian Microcap Investment Conference
Presentation: **17th October 2016**

Industrial Energy Efficiency Solutions:
Intelligent, Sustainable, Profitable

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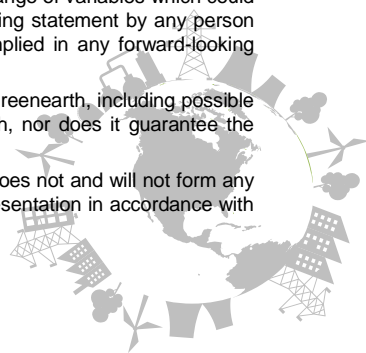
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OUR COMPANY

Our Company

Group Structure



Energy efficient industrial and commercial lighting

- ▶ World leading technology company, achieving energy savings of >80%
- ▶ Being deployed by key blue chip customers in Australia & overseas
- ▶ Enabling development of high margin recurring revenue
- ▶ The Australian Industrial & Commercial lighting replacement cycle market generates ~\$1bn of turnover annually

Transforming CO₂ into a useable fuel

- ▶ NewCO₂Fuels has an independently validated and globally awarded technology that converts CO₂ into fuel using solar or waste heat as the energy source
- ▶ Now in commercialisation phase
- ▶ Externally managed (passive) investment
- ▶ Greenearth Energy Ltd has a 33.33% economic interest in NewCO₂Fuels

Our Company

Differentiation



► ENERGY EFFICIENCY:

Increasingly a key focus across all industries, providing a clear market opportunity. Simply put, energy efficiency is a key contributor to overall profitability, productivity and sustainability. Our intelligent lighting platform provides the greatest lighting energy efficiency reductions available today.

► UNIQUE & PROVEN TECHNOLOGY:

The company has developed a leading edge, locally developed and manufactured, intelligent lighting platform specifically designed from the outset as a highly modular, plug and play system which is specifically designed for harsh industrial and commercial environments, across both local and international markets.

► DIFFERENTIATED COMMERCIAL MODELS:

The system has already been installed in some of the most demanding Blue Chip companies, both affirming the platform's capability in delivering superior lighting and maximum savings under the harshest conditions supported by an innovative Save'n'Share commercial model which is unique in the industry.

► EXECUTING ON GROWTH:

The company is executing on growth, with a substantial increase in pipeline across both domestic and international customers emerging. This in conjunction with endorsement from a growing number of large blue chip companies using the platform, provides a solid foundation for future growth.

Our Company

Statistics

Capital Structure

Share Price (11 October 2016)	[cps]	6.5
Ordinary shares on issue	[m]	362.5
Unlisted options (7.5 - 20.0cps)	[m]	47.7
Market capitalisation	[\$m]	23.6
Cash ¹	[\$m]	1.3
Debt ¹	[\$m]	0.5

¹ as at 30th June 2016

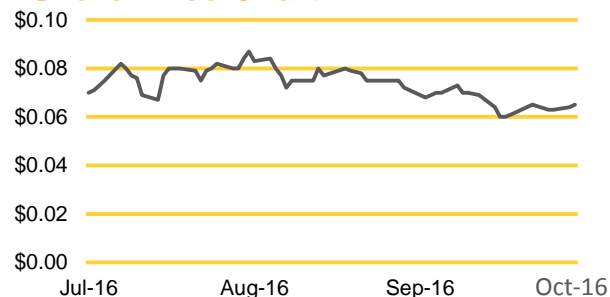
Management & Board

Charles Macek	Non-Executive Chairman
Samuel Marks	Managing Director
Robert Annells	Non-Executive Director
Leslie Butterfield	Non-Executive Director
John Kopcheff	Non-Executive Director
Philip Zajac	Non-Executive Director
Robert Smith	CFO & Company Secretary
Urbain du Plessis	COO – Vivid Industrial
Mark Rutherford	MD – Ilum-a-Lite

Shareholders

Illum-a-Lite vendors (in aggregate)	7.6%
Erdi Fuels	5.3%
UBS Nominees	5.2%
Advance Publicity	4.8%
Hub and Spokes	4.6%
Board	4.6%

Share Price Chart



Our Company

MILESTONES ACHIEVED SINCE THE 2015 MICROCAP CONFERENCE



- ✓ Revenue growth of 251% year on year
- ✓ Proven technology with savings of over 85% of Energy & CO₂ reductions
- ✓ Acquisition of Ilum-a-Lite (Commercial Energy Efficiency focus)

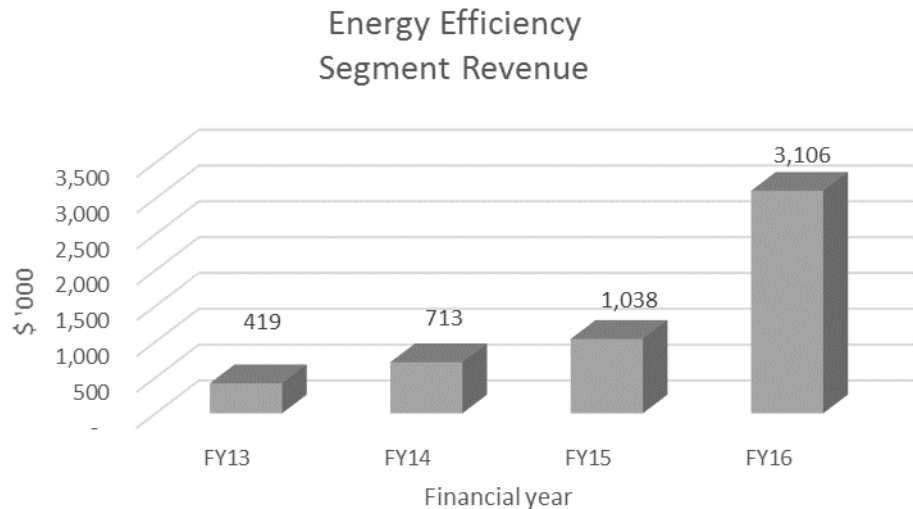


- ✓ LOI signed with potential commercialisation partners
- ✓ International recognition / awards
- ✓ Investment is complete at 33%

Our Company

Financials

- ▶ Year on year growth of 251% of revenue underpinned by product deployment & 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.



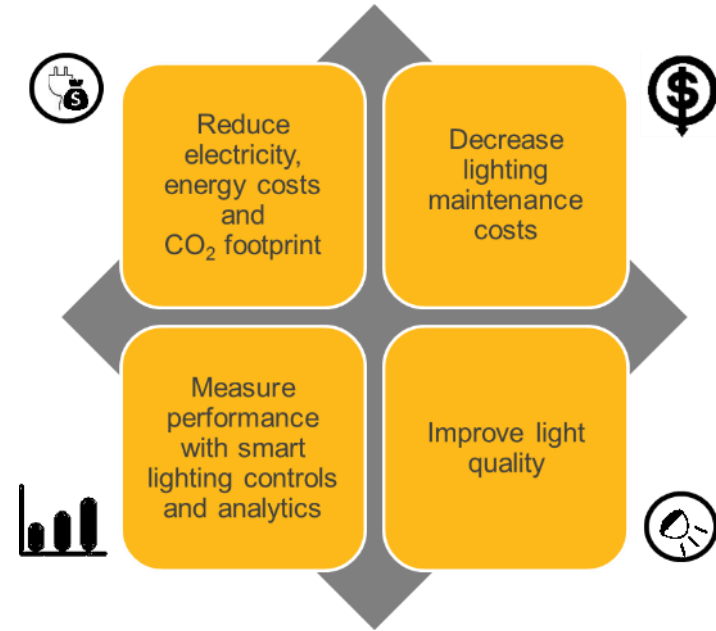


INDUSTRIAL ENERGY EFFICIENCY

Our Company

Industrial Energy Efficiency Unit

Vivid Industrial & Illum-a-lite provide **customised, intelligent and energy efficient lighting solutions** to enhance **industrial, commercial and infrastructure businesses**



Listen
& diagnose



Customise
solution



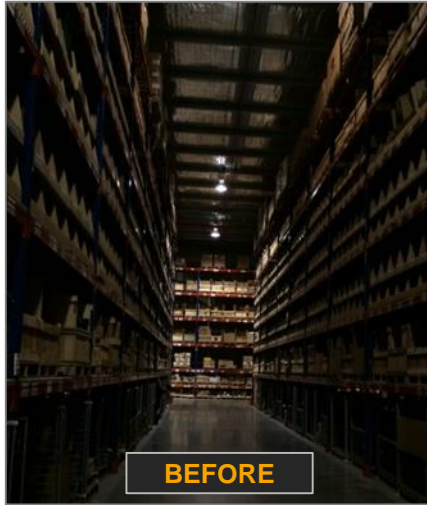
Business
results



OUR UNIQUENESS

Our Uniqueness

Inspiring A Lighting Revolution



Existing Lighting

Metal Halide highbay	1760W
Average Lux	20
Avg. operating load	1.8kW



Vivid Industrial Installation

Matrixx System	850W
Average Lux	426
Avg. operating load	0.4kw

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

+6 times more light
<25% of the prior energy usage
>\$100k annual energy savings



Our Uniqueness

Selling LIGHT... not Lights

Lighting as Energy Efficiency



Lighting as a Service



Lighting As A Platform



Vivid
Technology



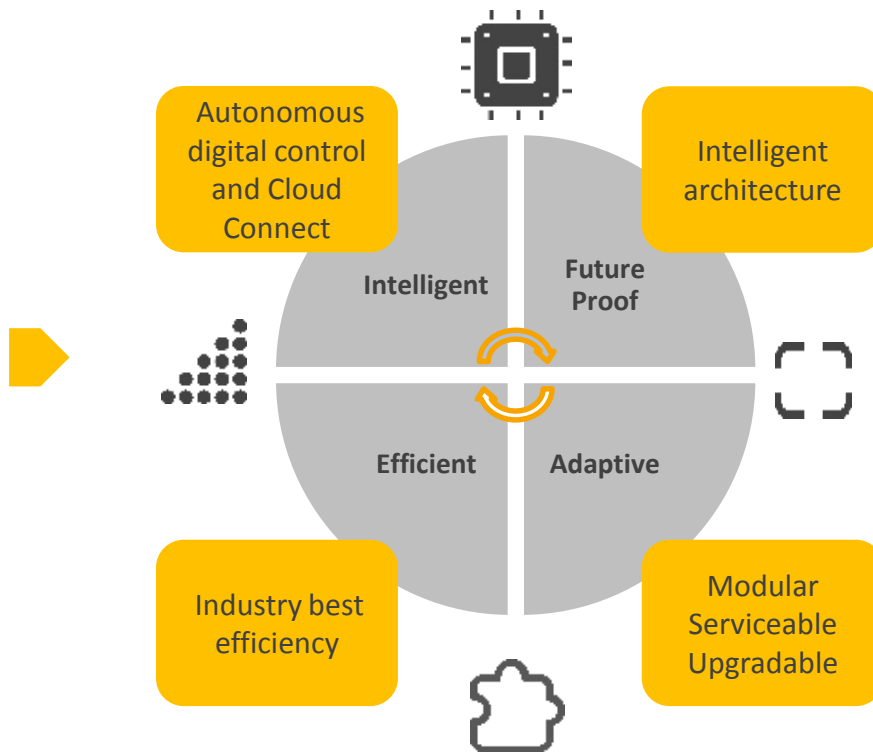
Intelligent
Industrial
Lighting
System



Our Uniqueness

Intelligent Industrial Lighting System

Our platform combines the **most advanced industrial digital LED drivers and lighting control systems** with world class LED industrial luminaires. Setting a new industry benchmark for efficiency, longevity and intelligent control of industrial lighting.



Our platform takes a new system design approach. A **fully plug and play modular architecture** offering full end-user maintainability and the ability to exploit the ongoing rapid advancement in LED technology at low cost.



OUR MARKET SEGMENT

Our Market Segment

A combined large and growing addressable market

- ▶ Vivid Industrial & Illum-a-lite provide customised intelligent & energy efficient lighting solutions to industrial, commercial & infrastructure businesses

Sporting



Logistics & Cold Storage



External Lighting



Resources



Infrastructure



Education



Retail 'large format'



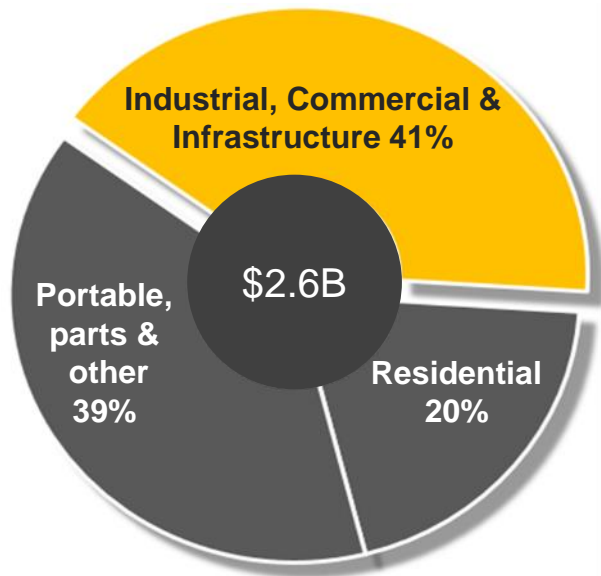
Healthcare



Our Market Segment

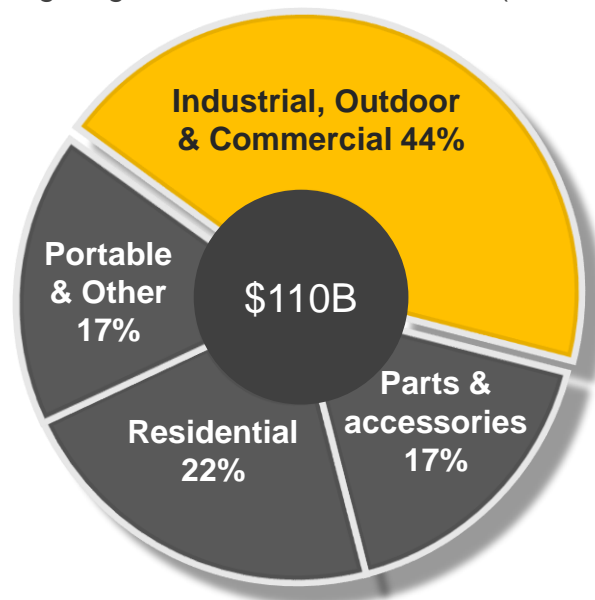
Australian Industrial & Commercial Lighting Addressable Market Opportunity

Australian Annual Lighting Market (AU\$billion)



Source: Source McKinsey, IBIS and Comp Estimates

Global Lighting Market Annual Revenues (AU\$billion)



Source: Freedonia Research

Our Market Segment

Competitive Landscape



	Hubbell	Acuity Brands	Digital Lumens	enLighten	Dialight
Ticker	HUB-A (NYSE)	AYI (NYSE)	Private	Private	DIA (LSE)
Summary	<ul style="list-style-type: none"> - Designs, manufactures, and sells electrical and electronic products in the United States and internationally. It operates through two segments, Electrical and Power. - Headquartered in Shelton, CT. 	<ul style="list-style-type: none"> - Designs, produces, and distributes lighting solutions, components, and services for commercial, institutional, industrial, infrastructure, and residential applications. - Headquartered in Atlanta, GA. 	<ul style="list-style-type: none"> - Developing and implementing next-generation LED lighting solutions, combining LEDs, networking, and software into a single, integrated. - Headquartered in Boston, MA. 	<ul style="list-style-type: none"> - Sensor and analytics platform, provides smart energy solutions for commercial environments. - Headquartered in Sunnyvale CA 	<ul style="list-style-type: none"> -Dialight is a world leader in applied LED technology for industrial, commercial and hazardous areas and no.1 in traffic lights. - Dialight plc is headquartered in the UK.
Products	Electrical Systems, lighting, power systems.	Indoor and outdoor lighting, stand-alone lighting controls for component-based systems, wall dimmers and timers, and systems for controlling large areas.	Intelligent high bay and linear LED alternatives, high-performance fixtures, digital light agents for commercial and industrial environments and intelligent lighting systems.	Digital sensors, room lighting controls, lighting/energy control systems.	LED lighting (for hazardous areas and industrial areas), obstruction signals.
Markets	North America, South America, Europe.	North America, and in Europe and Asia.	North America, Europe and Asia.	North America, Europe and Asia.	North America, Europe and Asia, Middle East.
Valuation	AU\$7.7B	AU\$12.0B	Q4 CY14 - US\$23m Private Round	Q3 CY14 - US\$20m Private Round	AU\$473.91M



OUR GROWTH STRATEGY

Our Growth

Our Customers



A combined **Industrial** & **Commercial** offering

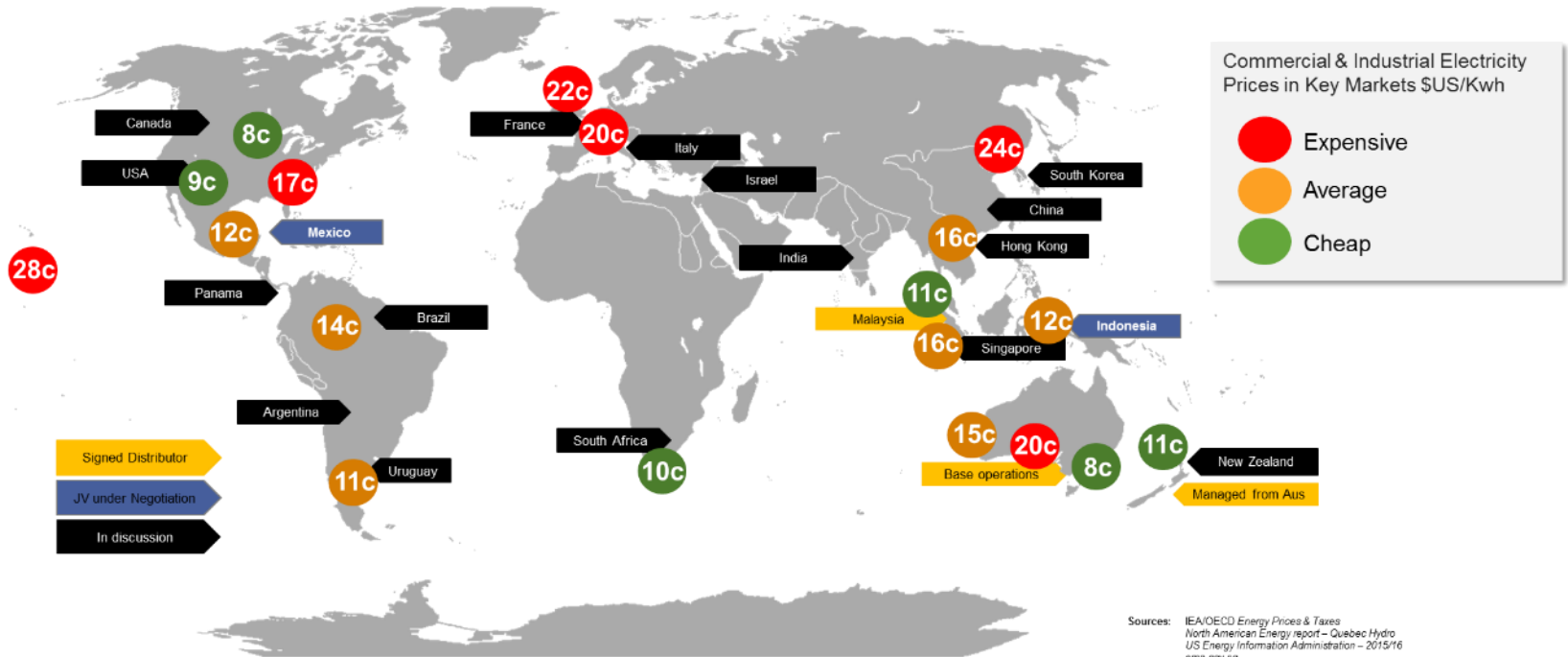
Building	Logistics	FMCG	Distribution	Ports	Hospitality	Healthcare	Retail	Services	Education
									
									
									

- ▶ Targeting both landlords and tenant companies.
- ▶ A growing base of blue-chip customers who are requesting additional site upgrades across their portfolio.
- ▶ Targeting large property owners and operators, including tenants.
- ▶ Proven ability in large scale, geographically diverse infrastructure upgrades

Our Growth

Global Expansion

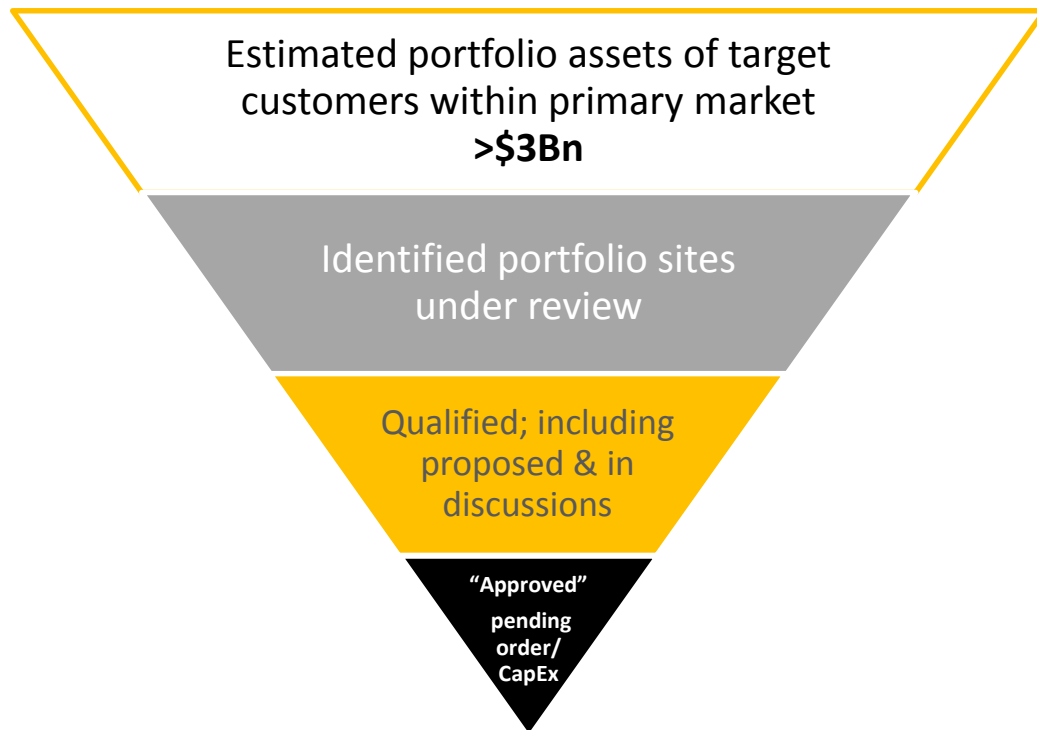
- ▶ Matrixx was designed with global reach and capability in mind
- ▶ Currently reviewing expansion opportunities across South East Asia and Latin America



Sources: IEA/OECD Energy Prices & Taxes
North American Energy report – Quebec Hydro
US Energy Information Administration – 2015/16
ema.gov.sg
Tenaga Nasional
mbie.govt.nz
en.wikipedia.org/wiki/Electricity_pricing
Australian data internal company analysis

Our Growth

Significant Pipeline Opportunity



A one-to-many opportunity... across a growing global customer base



OUR SUCCESS

Our Success

RMIT / Honeywell – EPC upgrade



Snapshot

>55%

Energy Savings

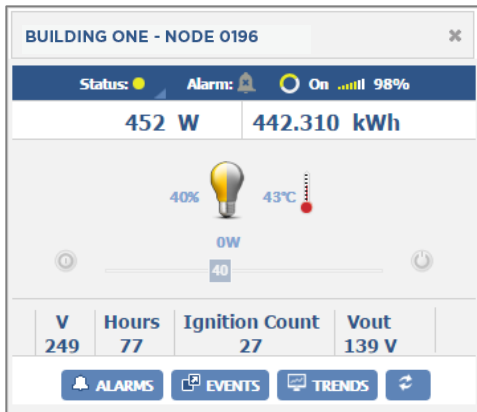
Significantly reduced
maintenance requirements

Improved user comfort and
light levels

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

Our Success

Silk Contract Logistics Warehouse



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



Snapshot

>60%

Energy Savings

Intelligently controlled eHID
lighting system

89% less lamps than alternate
system

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

Our Success

Melbourne Ports F-Appleton Dock



Port of Melbourne
Corporation



Snapshot

>75%

Energy Savings

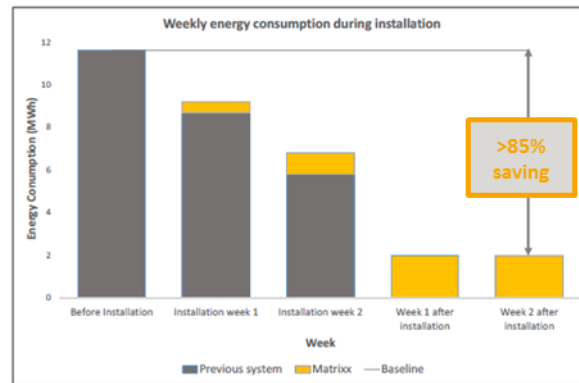
10 years maintenance free

150%
increase in light levels

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

Our Success

Linfox Warehouse



Snapshot

>85%

Energy Savings

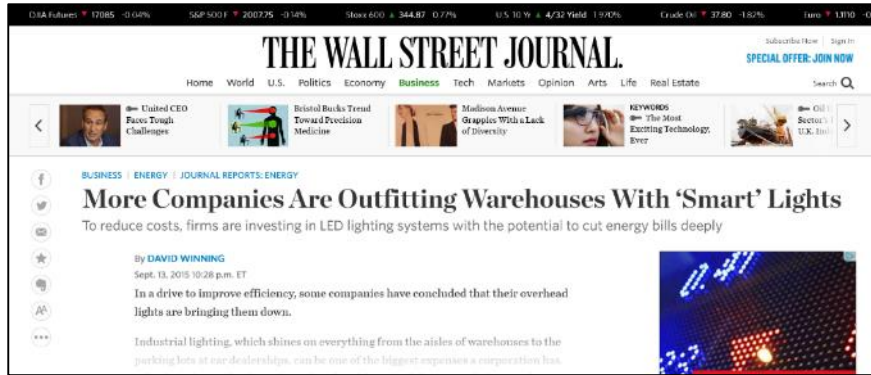
Matrixx Intelligently controlled
LED lighting system

20% less luminaires than
traditional system

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

Our Success

3rd Party Validation



Linfox internal Solutions Magazine

Refer: December 2015 Solutions Magazine (Pages 18-19) "Shining a Light on Efficiency".

This is our 7th Linfox facility with proven financial and CO₂ savings.

(http://issuu.com/linfoxlogistics/docs/linfox_solutions_december?e=18121451/32003242)

The Wall Street Journal in September;

The Wall Street Journal (Winning, 2015)

<http://www.wsj.com/articles/more-companies-are-outfitting-1442197722>

Winning, D. 2015, 'More Companies Are Outfitting Warehouses With "Smart" Lights', The Wall Street Journal 13 September



Technology Investment



World Leading Technology

Turning CO₂ into Fuel

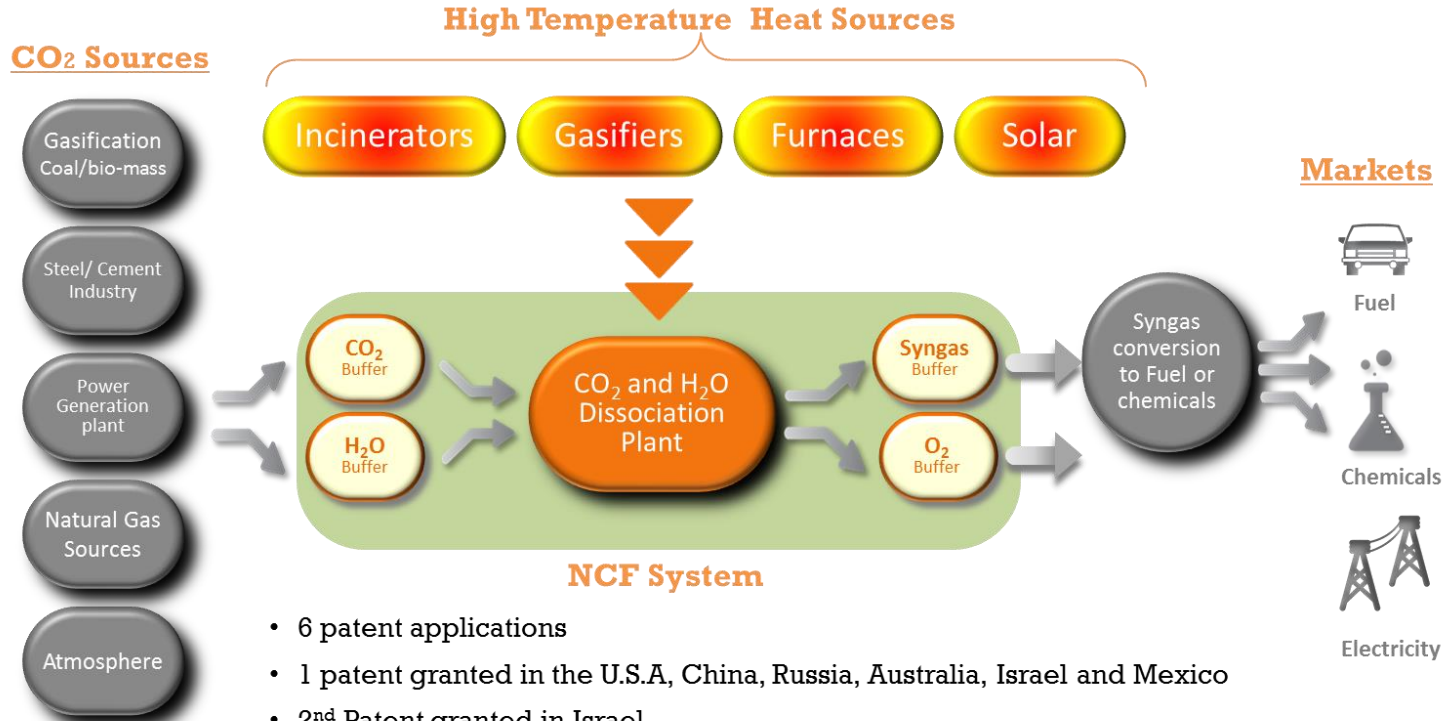


- ✓ A 33% INTEREST in an ISRAELI HIGH-TECH INNOVATION
- ✓ PROVEN MODULAR TECHNOLOGY
- ✓ TURNING THE WORLDS PROBLEM TO A SOUTION: Carbon Capture Utilisation (CCU)
- ✓ GLOBALLY RECOGNISED BY GOVERNMENTS and INTERNATIONAL AWARDS
- ✓ INDEPENDENTLY VERIFIED BY WORLD LEADING ENGINEERING FIRMS
- ✓ CURRENTLY IN COMMERCIALISTION PHASE
- ✓ SIGNED LOI WITH #2 GLOBAL FORTUNE 500 COMPANY (2015)



Turning CO₂ into Profits:

A 33.33% Interest in NCF technology



- 6 patent applications
- 1 patent granted in the U.S.A, China, Russia, Australia, Israel and Mexico
- 2nd Patent granted in Israel
- Broad in-house know-how



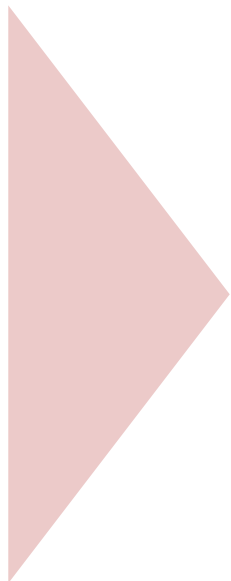
A Modular Product:

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

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

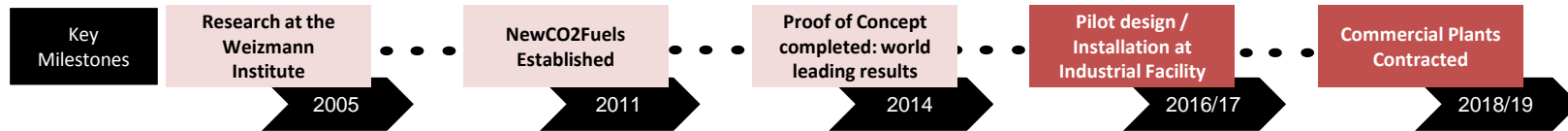


NCF Pilot Facility design

Key Facts:

- ▶ Heat source >800c
- ▶ 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

Ongoing validation: Milestones, Global Recognition & Relationships





In Summary

Our Company

Two world leading disruptive businesses



- ▶ REVENUE GENERATING
- ▶ DEMONSTRATED WORLD LEADING ENERGY EFFICIENCY
- ▶ EXECUTING ON GROWTH



- ▶ PROVEN TECHNOLOGY
- ▶ TURNING WASTE INTO PROFITS
- ▶ ENTERED COMMERCIALISATION PHASE

Industrial Energy Efficiency Solutions; Intelligent, Sustainable, Profitable

Thank You



Industrial Energy Efficiency Solutions:
Intelligent, Sustainable, Profitable

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