



# POWERX

Introduction to the business

30<sup>TH</sup> May 2017



**POWERX**  
AFRICA'S ENERGY EXCHANGE

## BACKGROUND



- SA's Department of Energy pilots trading model with the then Amatola Green Power in 2002
- 2009 license issued subject to certain conditions for 5 years
- In February 2016 the business is rebranded POWERX
- First Pre-paid power traded in May 2016
- Government & Eskom requested Municipalities to reduce their power consumption by 10%, however in Nelson Mandela Bay the municipality kept their consumption at the same level but increased their renewable energy consumption by 10%
- Currently POWERX purchases power from 7 different generators across SA (18.8MW)



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**Licence Number: TRD01/ELC/09**

#### **ELECTRICITY TRADING LICENCE**

This licence is issued by the National Energy Regulator, hereinafter referred to as "NERSA", in terms of the Electricity Regulation Act, 2006 (Act No. 4 of 2006).

This licence is issued to:

**POWERX (PTY) LTD**

hereinafter referred to as "the Trader", only for the purpose of trading in electricity within the boundaries of South African National Grid.

Trading of electricity under this licence is subject to the terms and conditions as contained in this licence and/or amendments to these conditions as imposed by NERSA. These licence conditions must be adhered to at all times.

ISSUED at Pretoria on this the 15<sup>th</sup> day of January 2014

**ACTING CHIEF EXECUTIVE OFFICER  
NATIONAL ENERGY REGULATOR**



## **POWERX MANDATE**

POWERX holds a NERSA (National Energy Regulator of South Africa) issued license (TRD01/ELC/09) to trade clean and green power using the National Grid, and where "Use of Systems" Agreements are in place, the Municipal Infrastructure between voluntary buyers and sellers on an off-setting basis.





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## POWERX TRADING MODEL

- POWERX utilises Eskom's transmission and distribution network to transmit the power around the country
- In cases where Customers are connected to a municipal network, further permission is required by way of Use of System agreement which grants POWERX the ability to utilise the municipal network
- Use of System agreements have been signed with Nelson Mandela Bay Municipality (NMBM), as well as Umjindi (Barbeton).
- POWERX develops a customised pricing structure dependant on the electricity tariff of the Customer.
- Currently POWERX supplies power to +50 Customers concentrated in NMBM



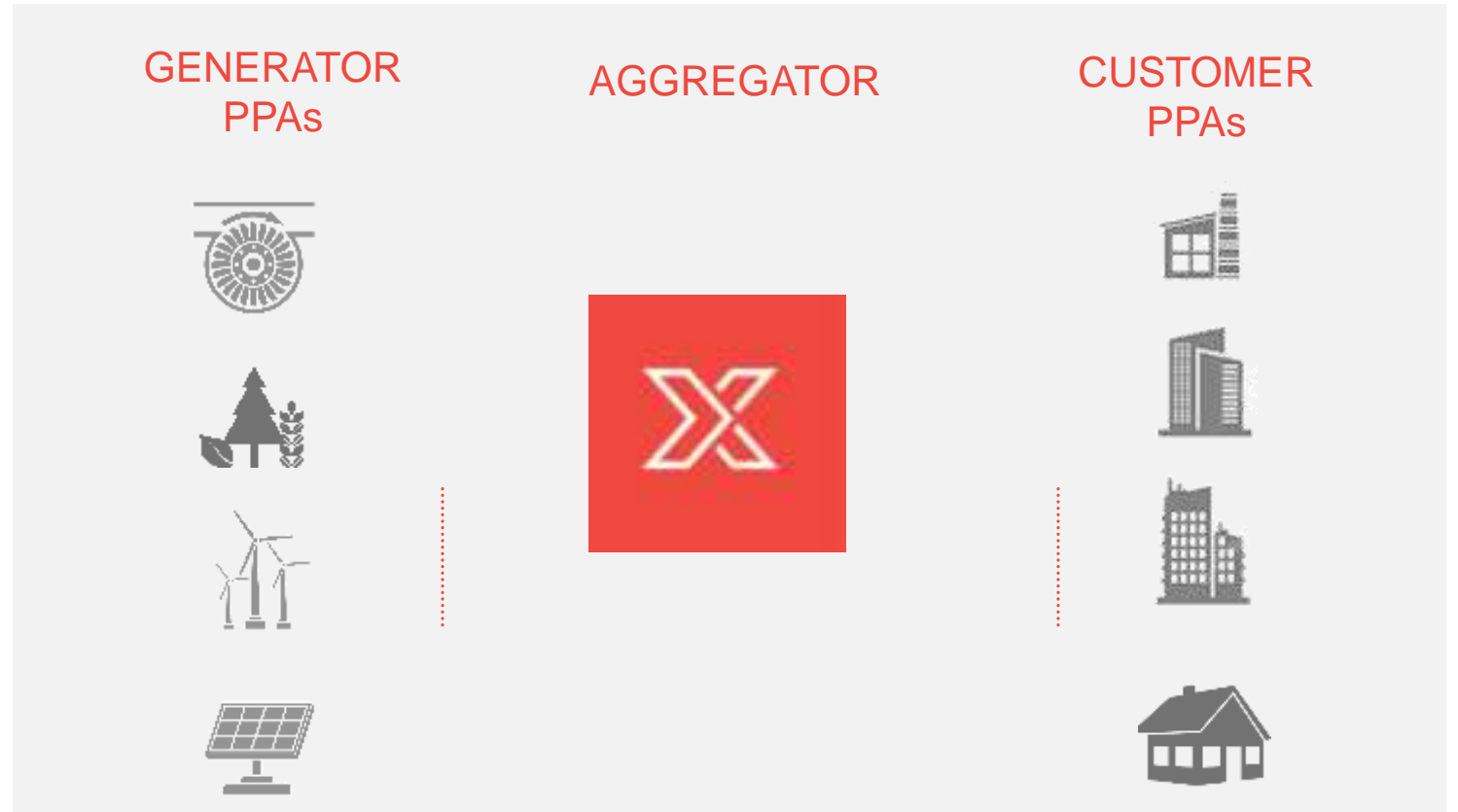


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## HOW IT WORKS

POWERX **stimulates** the production and consumption of renewable and clean power in South Africa by acting as a **conduit** between willing electricity buyers and sellers.

POWERX is an **aggregator** that assumes and actively manages the risks that generators and consumers cannot assume or mitigate themselves.





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## BENEFITS TO PURCHASING “GREEN” POWER

BENEFIT	BUSINESS IMPACT
Reduction of carbon emissions, improved sustainability	Achievement of global / local sustainability and environmental targets
De-linked from national utility increases which constantly exceed Inflation	By providing Inflation-linked increases on all Power Purchase Agreements (PPA's) we provide predictability of cost-planning resulting in high ROI.
Aggregated supply of power from different technologies	Reduction in risk to generator and consumer in terms of power supply.
Renewable Energy Certificates (RECS)	Nationally accredited verification to show proof of procuring electricity from a renewable power source.



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## CUSTOMER BASE







**Clean Energy Efficiency**

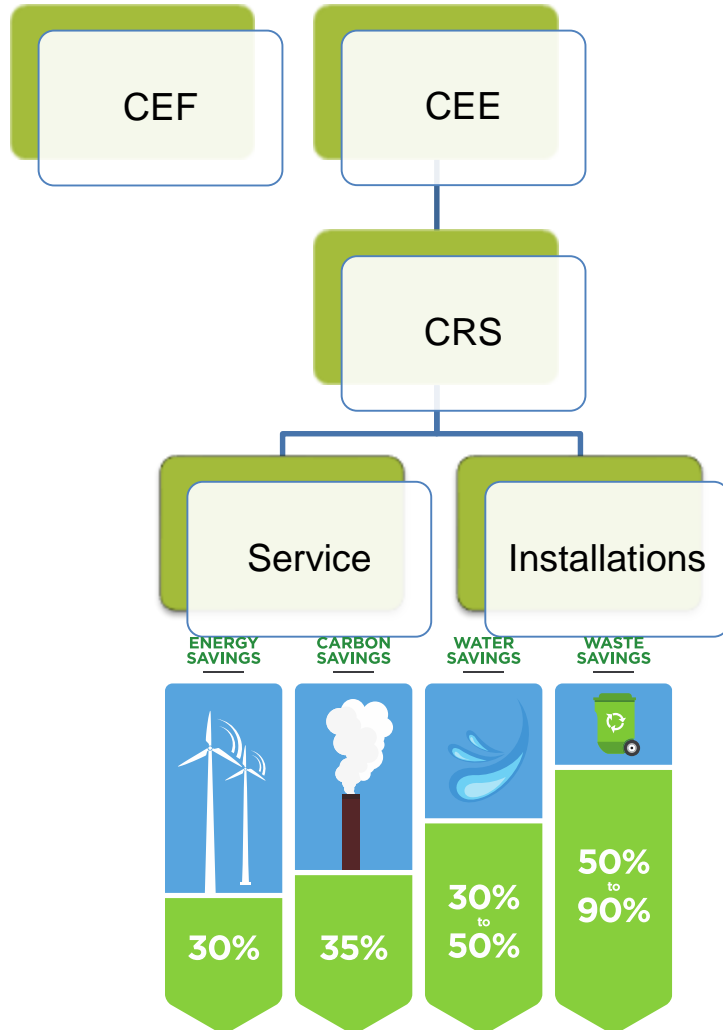
ROOTS OF  
ENERGY  
EFFICIENCY

[www.ceeafrika.com](http://www.ceeafrika.com)

June 2017



# Group Structure – High Level



## CLEAN ENERGY EFFICIENCY

**Clean Energy Efficiency (CEE)** is an expert service provider and consultant in renewable energy, energy efficiency and energy conservation solutions. We explore low-carbon energy alternatives to provide you with the most suitable solutions for your energy requirements.

**CEE provides consulting, products and solutions** focused on green energy solutions with the aim on environmental carbon (CO<sub>2</sub>) reduction and sustainability.

**Commercial Refrigeration Services (CRS)** manufacture, install and maintain heating and cooling systems: CO<sub>2</sub> and other natural refrigerant, refrigeration components, heat pumps, chillers and HVAC systems

**Clean Energy Farming (CEF)** provide aeroponic technology platforms and financing models for growing crops on a large industrial scale in an indoor environment, reducing water consumption by 95%, eliminating the need for pesticides and can guarantee production all year round with no impact from climate or season

**Solutions provided by CEE are sustainable, cost effective, energy efficient and environmentally friendly.**



# OVERVIEW

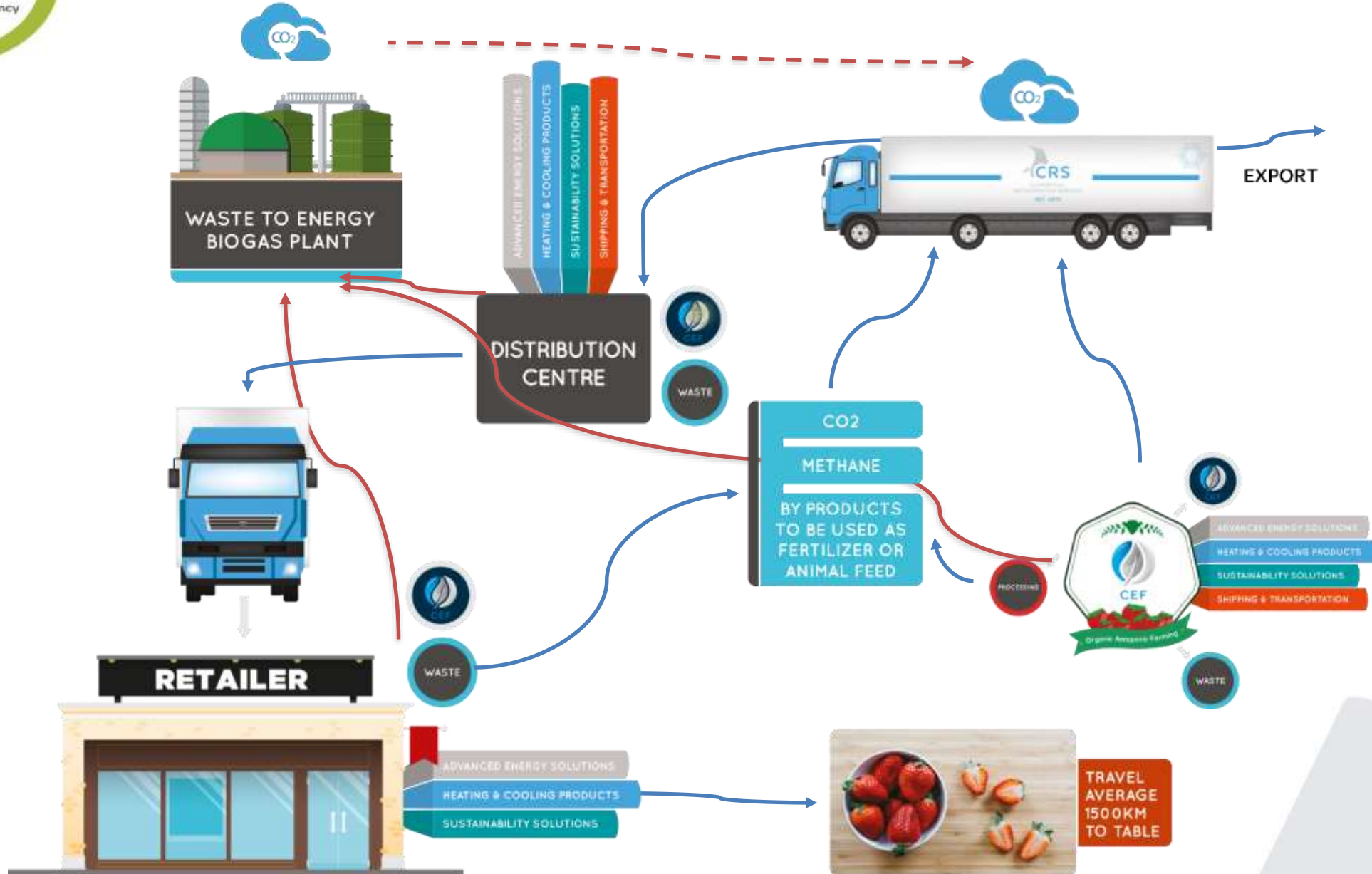
The CEE group is focused on providing holistic through-the-line solutions in energy efficiency and food security focused solutions to meet the changes of the global environment.

What makes CEE credible and a local player in the market with a global lens ?

## **Credentials:**

- 40 year history with Woolworths, Makro and other large retail groups in providing cold chain optimization, heating and cooling systems and solutions.
- Partnership with Woolworths in “Farming for the future” initiative which focuses on growing crops on an industrial scale in an indoor environment.
- Relentless focus on using CO<sub>2</sub> in heating and cooling systems increasing efficiencies by 30% thereby saving on power supply costs and reducing carbon footprint.
- Innovative solutions in saving Energy, Water and Waste whilst reducing carbon emissions make CEE a unique local player and a formidable global player.

# CEE Business In Action





# Our Customers







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# Contact Details

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