



Clean Air Gas Engines

Clean & Affordable Power



CAGE has developed a range of world leading ultra low emission gas engines and generators that can use any gas fuel with large cost savings over diesel power.

Pollution & High Energy Costs

**Diesel generators
produce harmful pollutants
that worsen respiratory conditions**



**Agriculture and Food industries are
not extracting value from their waste
and its methane emission**



**High energy costs are
squeezing farmers' margins**



Solution



Transforms waste into useful energy to save on electricity costs



Plug-n-play & Affordable small generator



Converts fugitive methane emissions to energy



Offers a revenue stream from carbon credits



Viable alternative to diesel for off-grid applications



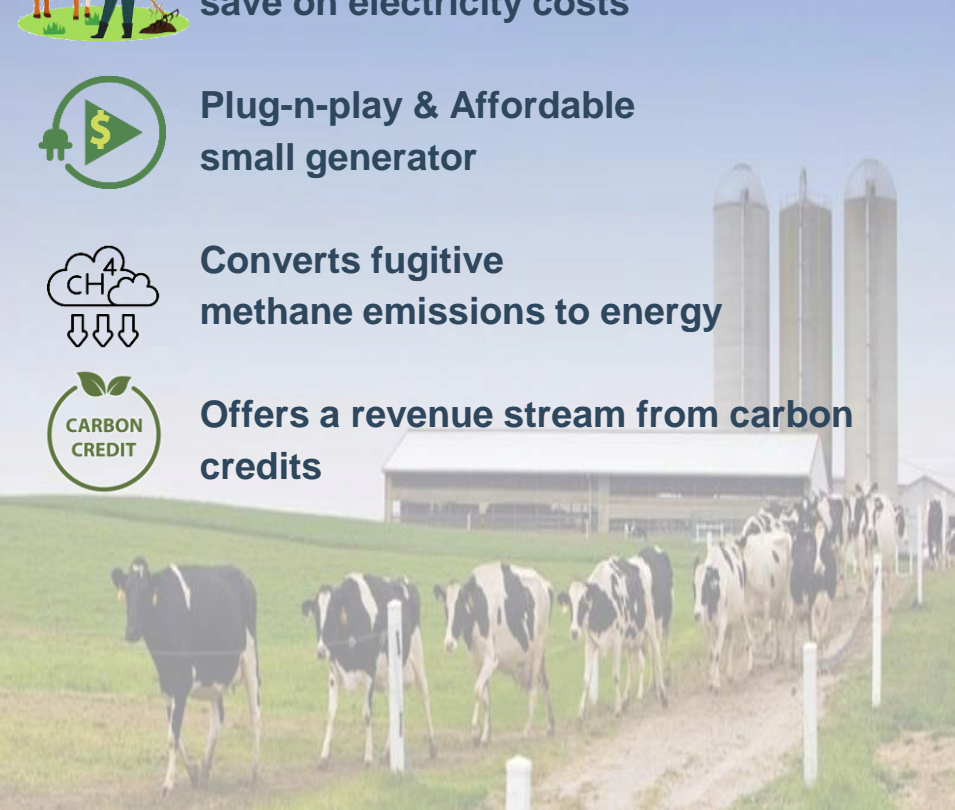
Reduces local harmful emissions & Carbon saving over diesel



Reduces fuel costs



Enables transition from diesel to net zero fuels



New Net Zero and Clean Air Technologies



CAGE IP Intelligent System Control: Optimises Generator Efficiency & Reduces Emissions



Biogas



Start & Run
On Low CH₄ Content

LPG

CNG/
Biomethane

rDME*

H₂



Optimised combustion
for high efficiency
& low emissions



Fuel flexibility



Responds instantly
to load demand



CHP/Heat Recovery



Plug-n-play & Affordable

* rDME (renewable Dimethyl Ether) is a new 'net zero' fuel made from recycled waste

Unique affordable
solution for small
facilities <50 kW

Run & start on raw biogas
without purification to
biomethane

Ultra-low emissions
95% below EU
standard V



**High
Efficiency**

Optimised combustion
for high efficiency
& low emissions

Affordable



Multi-gas

Cold start & adapt
on the fly to large range
of gas composition



Raw biogas



**H2 Robust
&
Cost-effective**

No need for
pure hydrogen to work
& 45-60% cheaper
than fuel cells



**Low
Emissions**



Business Model



Outsourced Manufacturing & Direct Sales



**Agriculture /
Waste-to-energy**

**Customer Own Generated Fuel Supply
CAGE product & O&M Service**



Equipment Providers

**3rd Party Fuel Supply and O&M Service
CAGE product Supply**

Option to License Technology



**Leaders in
selected markets**

**Integrate CAGE product
in turnkey solution**

Route-to-Market

Market

Application



Livestock Farm

Biogas to power
(CHP)



Workplace
Canteen

Food waste to CHP



Landfill Sites,
Waste Recycling

Landfill gas to
power



Market

Application



Construction
Sites

Prime & backup
power



Aquaculture,
Microgrid

Backup power for
remote sites



Customers



- **Plug-n-play** connected directly to AD digester
- **30% more efficient** than other biogas engines trialed by customer

- Unit installed in welfare building as **backup power** to solar
- CAGE product to power pumps extracting water from lagoons on infrastructure sites
- Measured by Imperial College, one of the most respected academic institutions in the UK: **95% less harmful emissions** than EU Stage V standard for diesel



- Trialled with **8 customers in 4 countries** including Africa and India

Team



Paul Andrews
CEO



Tom Harrison
Operations Director



Ian Cooke
Chair



Matthew Comins
Finance



Michael Willemot
Business Development



Senior engineering team
ex-automotive and aerospace

Clean, Affordable & Resilient Power



CAGE
TECHNOLOGIES

Clean Air Gas Engines