





JLEN Analyst Session Anaerobic Digestion – June 19th 2018



Opening Remarks

- JLEN is an 'Environmental Infrastructure Fund'
 - Diversified portfolio
 - ➤ Inflation linkage
 - Long term, predictable cashflows
 - > Stable regulatory frameworks
- Current AD investments include:

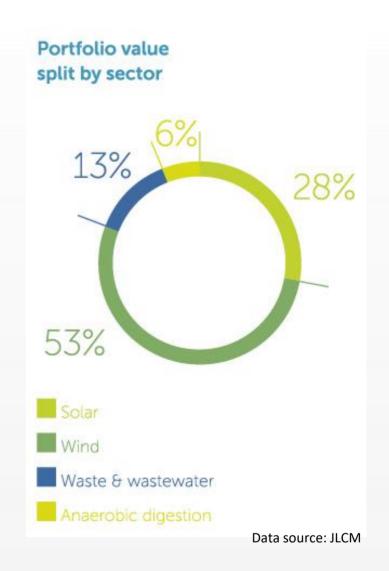
Vulcan



Icknield

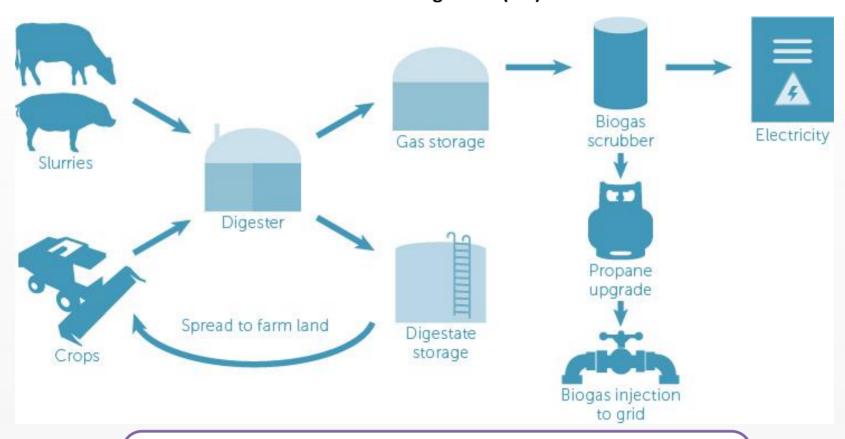


 Further asset acquisitions currently pursued at various stages in AD and other bioenergy sectors



AD Process Overview

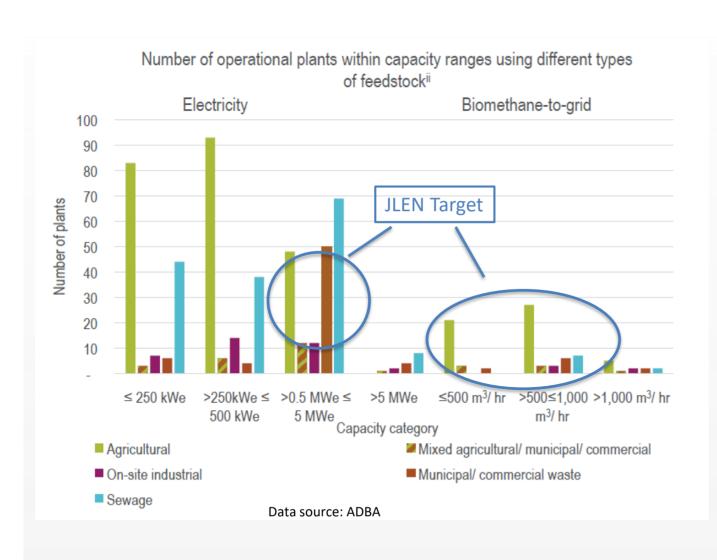
What is Anaerobic Digestion (AD)?



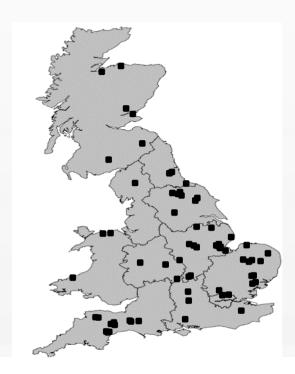
AD is the natural breakdown of organic matter to release biogas and water. The biogas can be harnessed to make electricity, heat, gas and fuel. What remains, the digestate, is a biofertiliser that can be used on land.



AD Market Overview



- Over 400 agricultural and 85 food waste plants in the UK
- Early plants now able to display operational track record and benefit from high initial tariffs
- Around £2bn of assets built
- Construction financed mainly by EIS & VCT funds – at least 60 to 80 plants due for refinance in next 3 years







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Investment Attractions



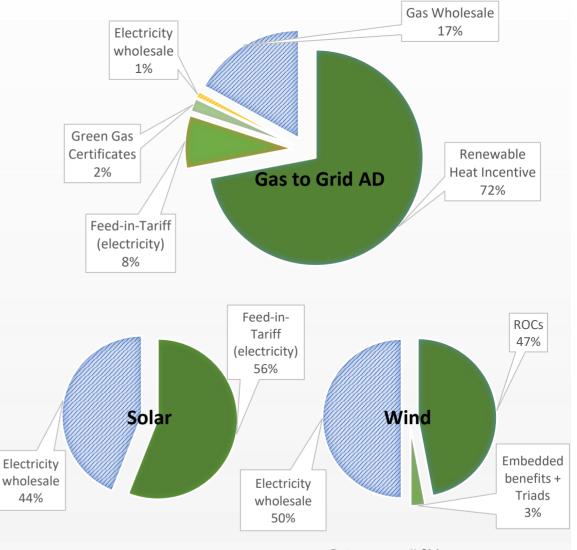
Sector Attraction

- ✓ Low technology risk
- ✓ Subsidy support through FITs, ROCs, RHI.
- ✓ RPI linked cashflows
- ✓ Low exposure to merchant price (gas/electricity)
- ✓ Higher returns than wind or solar
- ✓ Limited competition
- ✓ Value Enhancements

Renewable Heat Incentive (non-domestic)

- Fixed income per kwH to generators of renewable heat, biogas and bio methane
- Quarterly payments over 20 years
- Indexed at RPI (pre-April 16; CPI post)
- Grandfathering rules protect original tariffs

Example of revenue splits

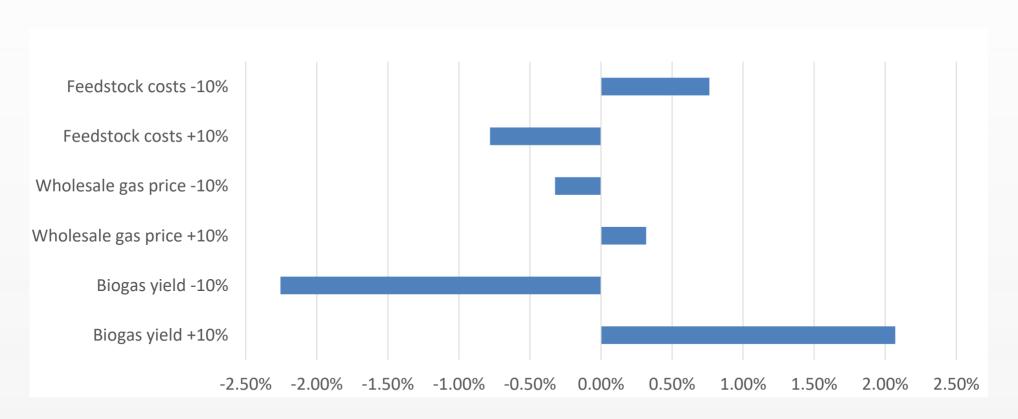


Data source: JLCM





Operating Sensitivities

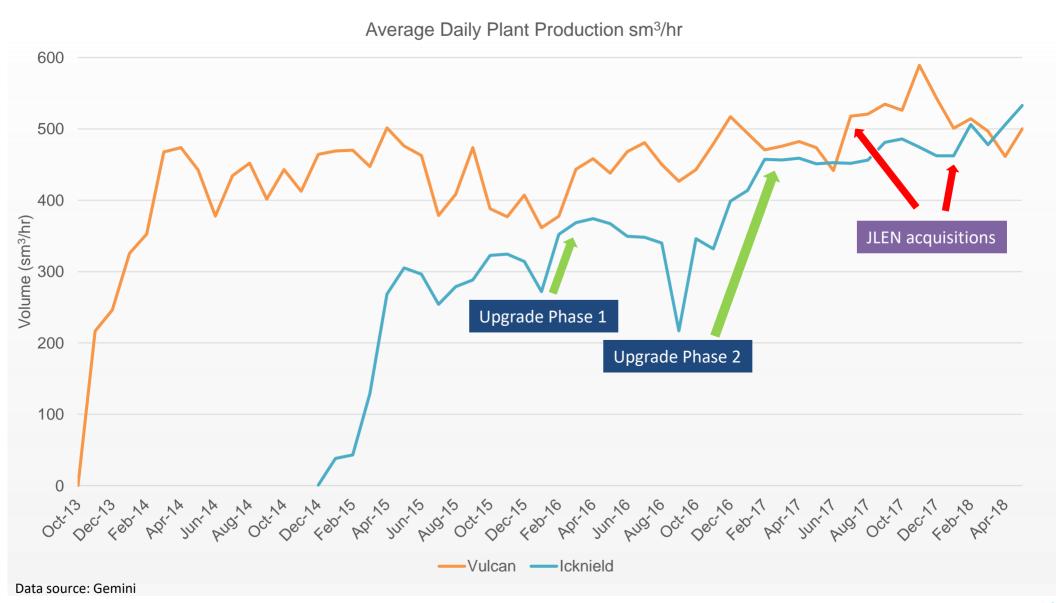


Impact to investment case IRR

Data source: JLCM

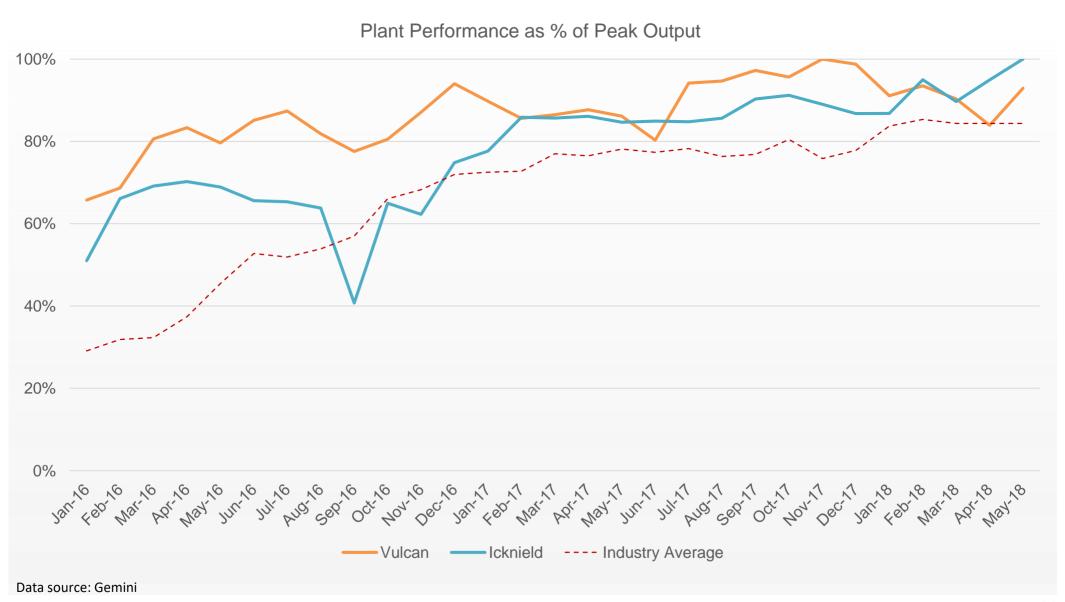


Investment Attractions – Operational Track Record





Investment Attractions – Operational Track Record



Value Enhancements

Production optimisation



Close biological monitoring & crop management to maximise gas yields and feedstock conversion efficiency

Minor capex upgrades



Rotogrind at Icknield Increasing gas yield with a <1yr Payback

Major capex upgrades



Capacity increases through new digestion tanks (Vulcan case study to follow)

Financial structuring



Introducing leverage across AD portfolio





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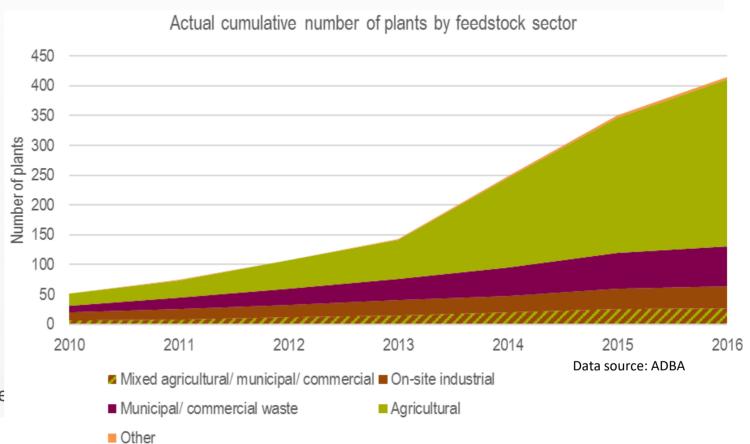
Portfolio Management – Sector Observations

Overview

- Strong regulatory regime and low technology risk resulted in rapid deployment and growth in sector
- Operational exposure for the industry lagged behind
- Industry focus is now on operation and optimisation

UK AD Growth

- 2010 Feed-in Tariffs launched
- 2011 RHI biomethane incentive launched
- 2013 Cost control mechanisms put in place by Government
- 2016 Start of closures of subsidy regimes for new AD builds
- 2018 New RHI phase 2 launched for final build phase until 2020

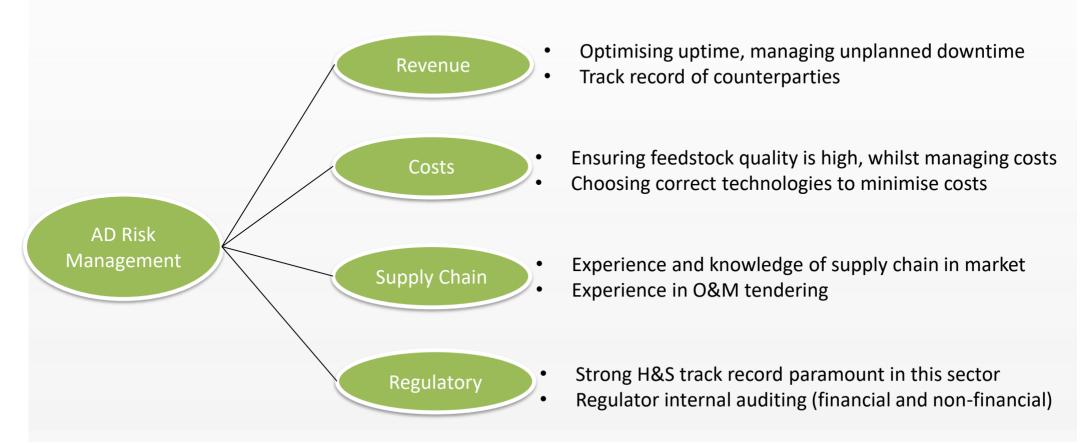




Portfolio Management - Risk Management

Risk Management in AD Investments

- Having a strong sector knowledge is crucial in identifying a root to successfull investments in AD
- Choosing the right partner with a strong track record is also important in managing investments



Vulcan Upgrade Project

Vulcan Project Specifics		
Acquisition Date	August 2017	
Acquisition Price	£15.3m	
Plant Description	c. 5MWth gas-to-grid Agricultural fed AD plant with a 0.5MWe CHP engine to provide for the site	
Operational Date	October 2013	
Revenue Incentives	c. 80% Government backed RPIpegged tariffsRHI, FIT	
Feedstock	Approximately 40,000t p.a.Mixture of Maize, Rye & beet	
Site Operator	Future Biogas ("FBL") - FBL originally developed the plant - FBL operate a number of plants in the locality	



Upgrade Project Information				
Estimated construction duration	15 months			
Estimated Capital Cost	£7 million – £9 million			
Biomethane increase (MWh)	More than double (approx. 120%)			





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Any Questions?





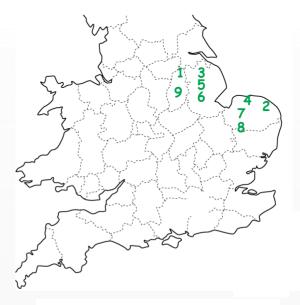


Business

- Develop, build and operate and maintain AD plants
- 11 sites (approx. £120m) built since 2011
- Expert team
 - Skilled operators
 - Microbiologists with in-house lab
 - Biogas engineering team
 - Feedstock team with farming pedigree

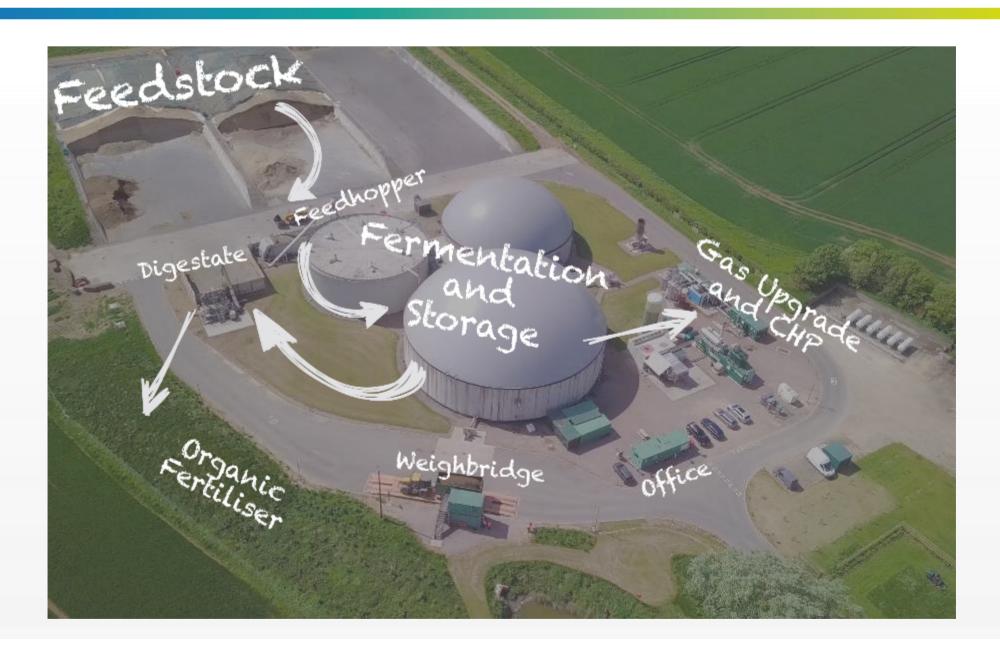
Aims

- Be leading UK operator of AD assets
- Develop business by growing portfolio of operated plants
- Improve/Expand/Upgrade portfolio of plants



Plant Com	missioned	Funder
1 Vulcan	Oct-13	JLEN
2 Oak Grove	Nov-13	OCP
3 Merlin	Sep-14	Downing
4 Egmere	Nov-14	AMIM/Downing
5 Grange Farm	Dec-14	Downing/AMIM
6 Heath Farm	Sep-15	Ingenious
7 Redstow	Sep-15	Downing
8 Warren	Dec-15	AMIM/Downing
9 Rainworth	Sep-16	Foresight

The AD Plant







Feedstock And Digestate Management

Local

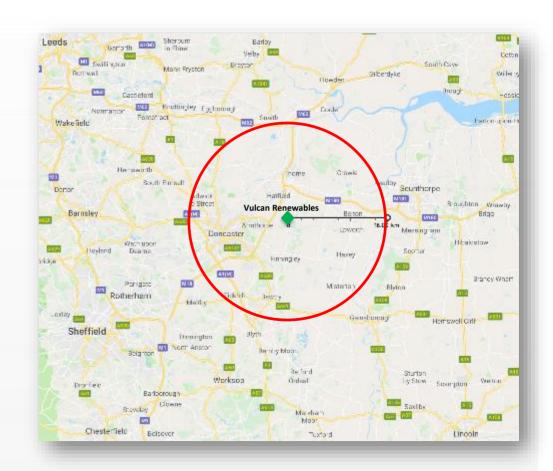
- Majority of the crop sourced within 5 miles
- Economically sensible to travel up to 10 miles

Low Impact

- Below 2% of local land-bank
- We also buy in by-products such as beet pulp and veg pack-house "wonky" veg

Large Scale

- Grow 11,000 hectares of crop annually,
- Harvesting >450,000 tonnes
- Spread 250,000m3 of liquid and 100,000t of solid digestate
- Purchasing advantages
- Multiple sites share feedstock



Offsetting Farming Risk

Security of Supply

- Annual or multi year
- Integrated in farming rotation
- Key farm relationships
- · Range of crops and by products used
- Manage stocks carefully

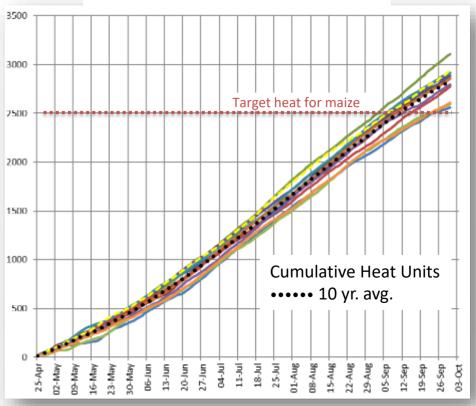
Weather Risk

- £/tonne or rented land
- Winter/Spring crops
- Varietal (maturity) choice
- Crop Management options

Competence

- Employ experienced Feedstock Managers
- · Careful planning for peak periods of activity
- Agricultural contractor management
- Key farm relationships

Steady Weather / 2006-16

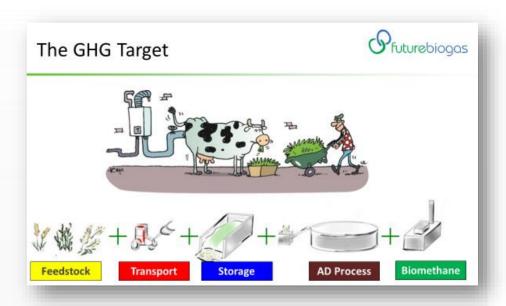


Data source: Future Biogas

Carry out farming activities efficiently, safely and considerately

Ensuring Sustainable AD Cropping

- Crops destined for AD are measured for their carbon footprint and sustainability by OFGEM
- AD cropping is helping towards UK government renewable energy targets
- AD benefits food crops by diversifying rotation and improving soil organic matter, giving higher yields
- Changes in pesticide/herbicide availability will benefit AD
- FB engage positively to debate issues, communicate benefits and challenge myths. DEFRA consultations on "Health & Harmony" and Clean Air are good fit for AD offer
- R&D to improve sustainability
 - Perennial cropping
 - Double cropping (i.e. 2 crops in one season)
 - Digestate application









So What's So Different About Future Biogas Feedstock?

- Scale purchasing, influence, reliability
- Quality measurement, recording and attention to detail
- Local presence seek long term partnership with local growers for both crop and digestate
- **People** "Train to retain" staff, growers and contractors
- Research R&D collaborations NIAB
- Planning Manage harvest logistics sympathetically to local environment
- Collaboration Communicate with growers and cross industry
- Innovate bringing a taste of the Alps to Norfolk!!

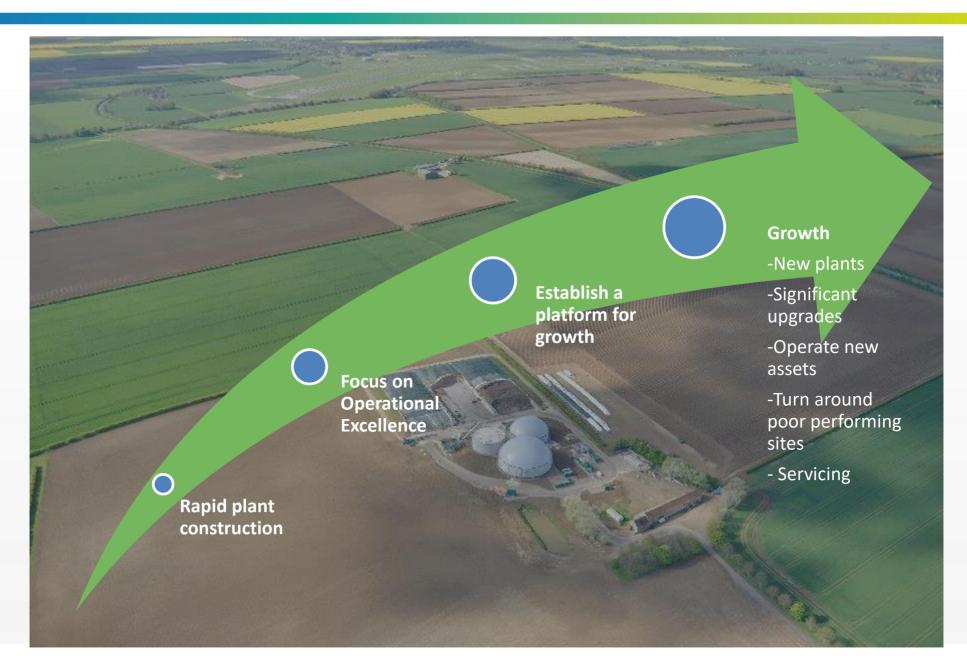




Operations – Colin Mills

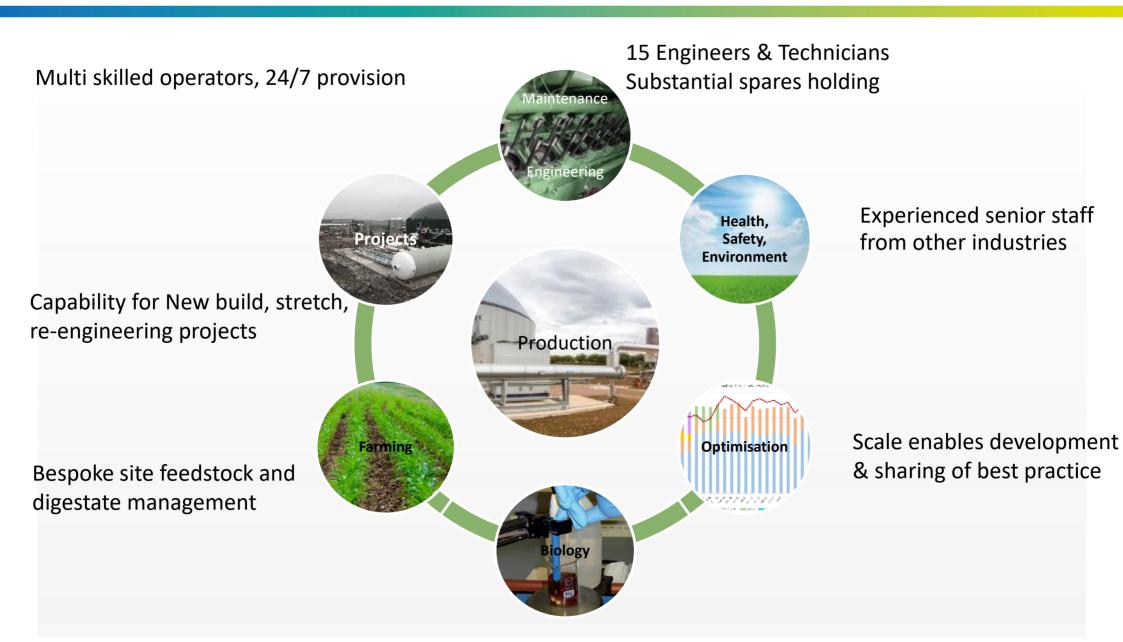








Future Biogas – Complete provider for AD Operations



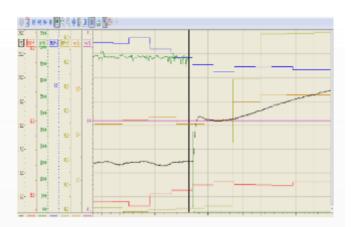
Minimise Unplanned Downtime

Preventative Maintenance

- Best practice and experience brought in with staff from other industries
- Multi-skilled operators are trained to perform first-line maintenance and fault-finding
- Co-ordinated approach to maintenance
- Condition based maintenance regimes assets are monitored closely for wear

Spares

- Critical spares analysis carried out on plants to identify key items to hold
- Over £1m spares held centrally in the UK
- 24/7, 365 day/year access to spares





Response To Unplanned Outages

Equipment & Capability

- Future Biogas have the experience and resources to plan and then execute outages with quick turn arounds, saving feedstock and maximising income
- Depth of maintenance know-how allow most repairs to be dealt with in-house with major savings on specialist services and much faster response times



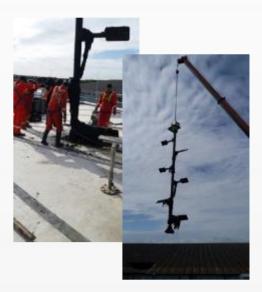








Chain snapped Sunday night, machine operational Monday afternoon with parts from central stores.



Future biogas changing feed critical Digester Stirrer when bottom bearing showed signs of failure. The digester was off line for 12hrs . Parts in stock and engineers on site next day with a crane.

Future Biogas – Summary

- People
 - Experience brought in from other industries
 - Multi-skilled operators/technicians
- Demonstrated track record of high uptime, high output plant operation
 - Spares
 - Robust maintenance plans
 - Specialist equipment & capacity to quickly resolve operational problems
- Complete AD Operator with scale
 - Farming, Engineering/Maintenance, Production, Projects
 - Biology, SHEQ (Safety, Health, Environment & Quality), Optimisation







- Market opportunity
- Attractive risk-adjusted returns
- High proportion of index-linked subsidy-backed cashflows
- Manageable risks
- Value enhancements



Any Questions?

Biographies – John Laing Capital Management

Chris Tanner – Director – John Laing Capital Management

Chris Tanner is the co-lead Investment Adviser. He has over 18 years' experience in infrastructure including PPPs, economic infrastructure and renewables. Chris joined the Investment Adviser in January 2014 and prior to this was a Principal in Henderson's private equity infrastructure team from 2007 and at PricewaterhouseCoopers for 11 years where he focused on project finance advisory with a strong focus on the waste sector. Chris is a Member of the ICAEW and has an MA in PPE from Oxford University.

Chris Holmes – Director – John Laing Capital Management

Chris Holmes is the co-lead Investment Adviser. He has over 20 years' experience in infrastructure and renewables. Chris joined the Investment Adviser in January 2018. Prior to this, Chris was Head of Waste & Bioenergy team at the UK Green Investment Bank plc for four years and before that, Head of Capital Markets in the Infrastructure and Renewables team at NIBC, also with responsibility for UK debt origination and advisory within these sectors. Chris has a BA in Business Economics from the University of Durham.

William Mezzulo – Head of AD Asset Management – John Laing Capital Management

Dr William Mezzullo joined JLCM in June 2018 as the head of AD asset management. William comes from Oxford Capital Partners LLP where he was Portfolio Manager and he is experienced in the management and development of AD assets, having previously worked for Future Biogas for seven years.

Biographies – Future Biogas

Philipp Lukas – Managing Director – Future Biogas

Philipp founded Future Biogas in 2008 following a career in law and renewables, having previously worked in corporate law at Travers Smith and then run a cellulosic ethanol developer. He was a director of the Anaerobic Digestion & Biogas Association (ADBA) for 4 years and is on the board of the European Biogas Association.

Innes McEwen – Head of Farming – Future Biogas

Innes is responsible for feedstock and digestate for 11 AD plants (26MW_{elec}). Prior to joining FB in mid 2014 Innes ran the in-house farms for Unilever and latterly Syngenta for over a decade. He gained an honours degree in Agriculture from University of Aberdeen followed with a Postgraduate Diploma in Crop Protection at SAC (Aberdeen). Innes is an active member of the Institute of Agricultural Management, currently Vice-Chair of the Maize Growers Association and chairs the Crop Working Group for ADBA.

Colin Mills – Operations Director – Future Biogas

Colin recently joined Future Biogas from BOC (Industrial Gases) where he was Head of Engineering for UK & Ireland. In this role he was responsible for the majority of projects both on BOC and customer sites, national operations/service teams, 60 customer located production plants, Engineering new product development, technical standards and Engineering support to all BOC production sites. Colin has extensive experience of leading people & operations in hazardous & regulated environments.

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