



BARFOOTS
fresh thinking

Waste reduction and how it can power a business

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Technical Director

Barfoots

- 100% Owned by Peter
- Formed in 1976
- Vertically Integrated
 - Farming
 - Processing
 - Marketing
 - Green Energy
- R&D Focused
- Sustainable
- Supply UK / European Multiple Retailers plus Food Service
- Farm 6000 acres South Coast UK and 32 countries around the world



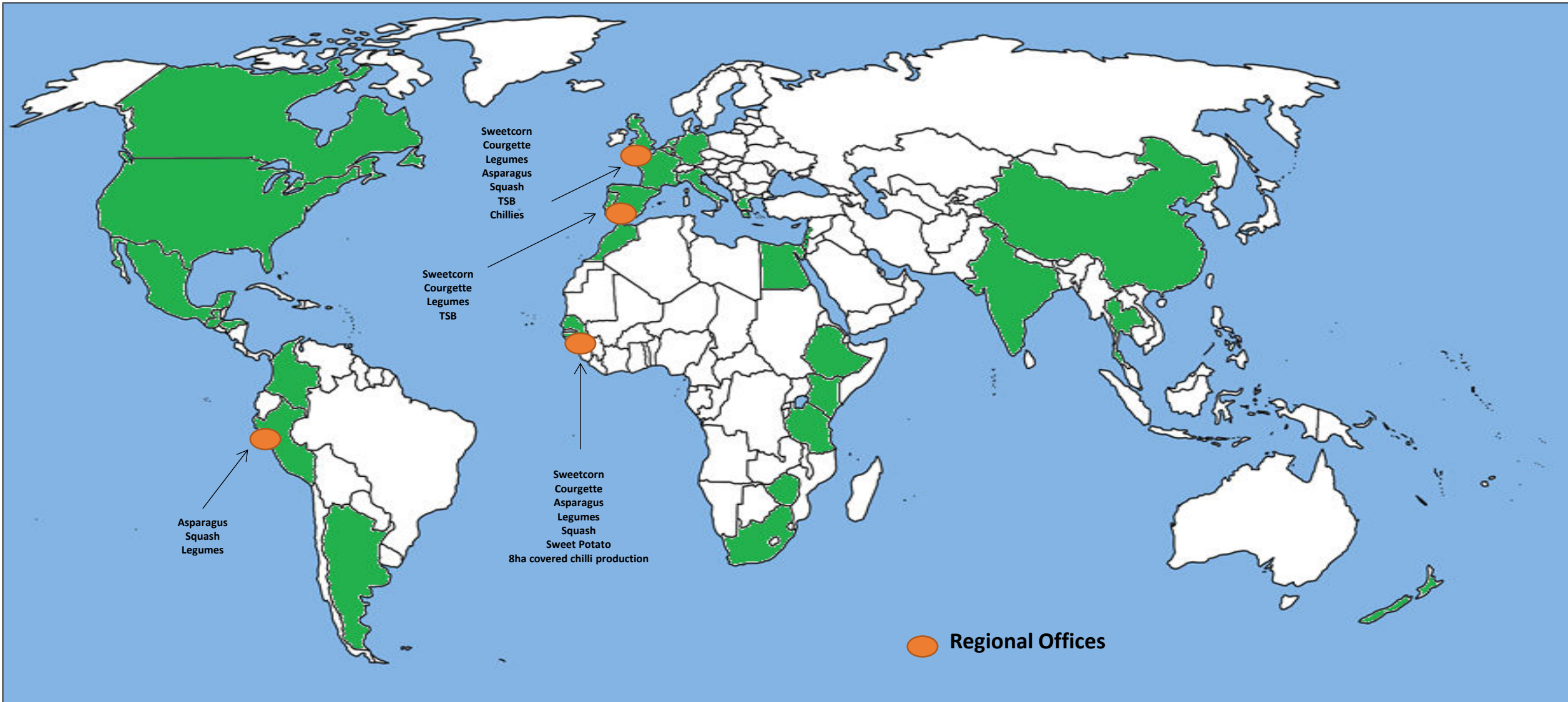


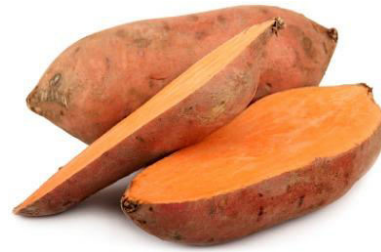
Harvest
2015

HARVEST

Barfoots UK & Global Supply-Chain

Sea freight focused strategy





Our Products

Sweetcorn



Video

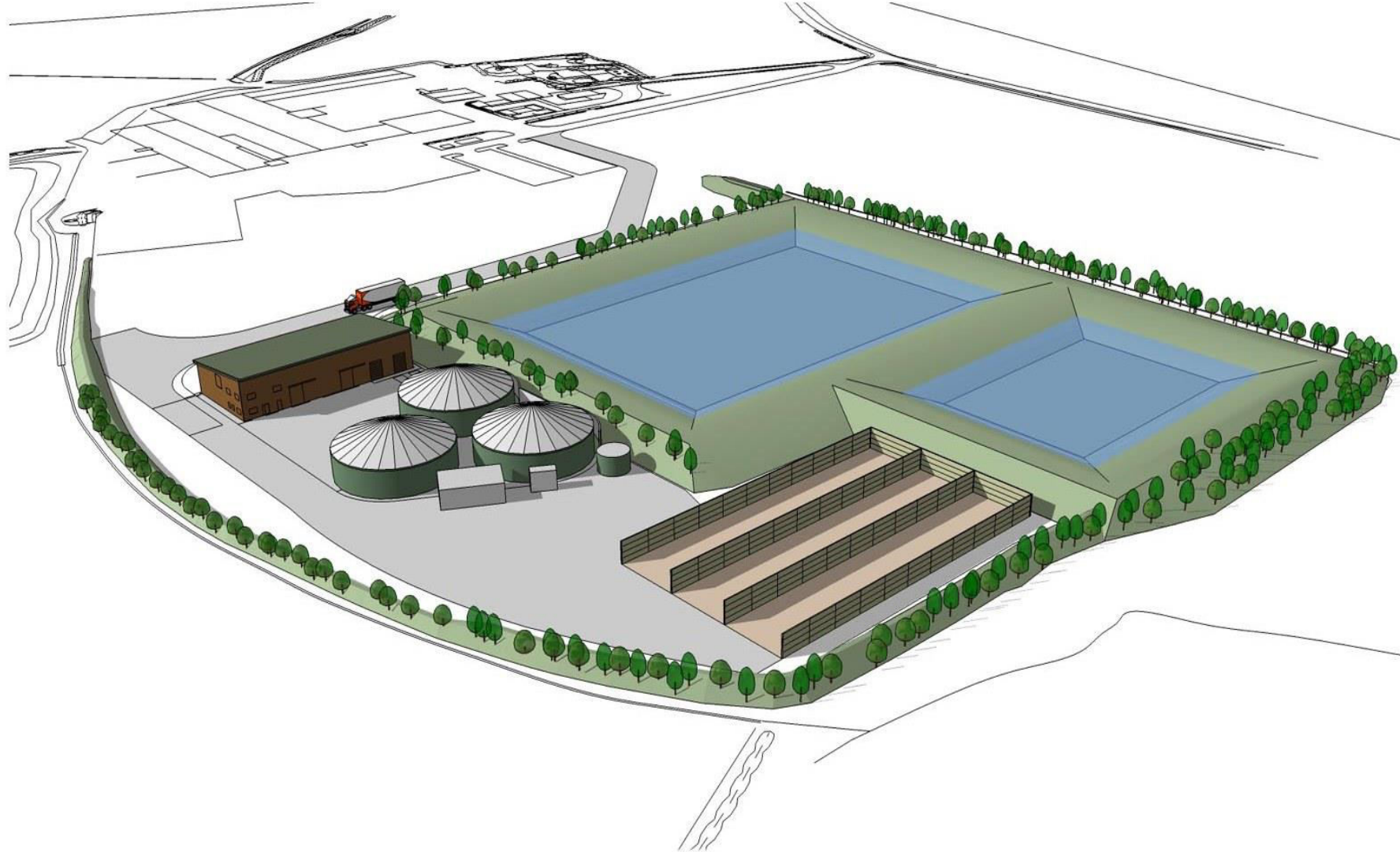
- <https://www.youtube.com/watch?v=gMmoCfUui90>

The Problem – Green Waste

- Waste Problem. (50,000 tn. per annum waste)
- Not enough Cows to eat Sweetcorn By-product.
- Considered alternatives:
 - Landfill
 - Composting
 - Own beef lot
- Government support changed. (Renewable Obligation Certificates, Development Grants)



Our Solution – AD Plant

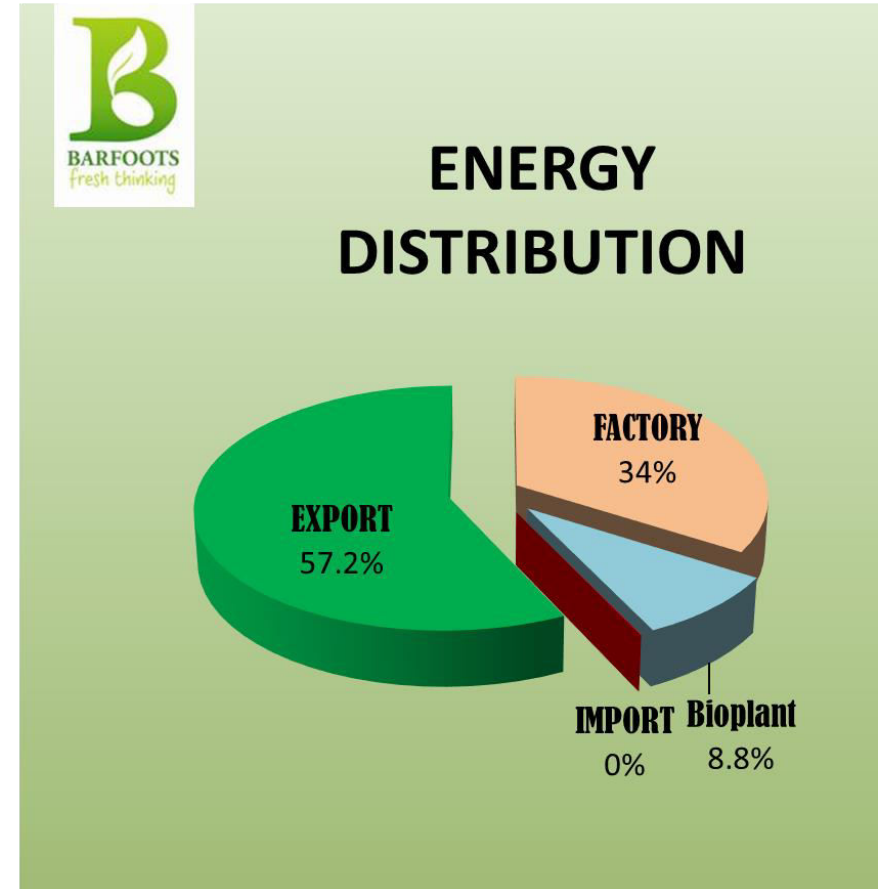


SEFTER FARM, PAGHAM ROAD, PAGHAM
ANAEROBIC DIGESTER PLANT



The End Result

- 100% Energy from waste
- Digestate provides fertiliser for next crop
- Soil conditioner improves soil structure
- 5000 tractor journeys removed from local roads



What else could we unlock?

- What else could we unlock?
 - Gas to grid
 - Carbon dioxide
 - Heat – (refrigeration and direct heating)
 - Digestate – product / transport.
 - Cellulose – packaging
 - Other high value by-products
- Pyrolysis
- BioChar



Waste not want not – grow

- Waste through specification
- Whole crop utilisation



Defective Produce





Don't ship in the first place



Nutrition in Senegal





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Thank you