

 **carbonise**
EXHIBITION AND CONFERENCE 2023

14:00 - 15:30, May 10

Bioenergy 2: Energy from Waste and Innovation: Opportunities and Threats – what is coming up?

Introduction



Adam Clarke

Assistant Group Manager (Waste Management & Recycling)
Glasgow City Council

Transforming waste in Glasgow



A world class city with a thriving and inclusive economy where everyone can flourish and benefit from the city's success.

Drivers for change

Back in 2008...

- 346,917 tonnes of MSW
- 80% landfilled
- 20% recycled
- LAS Scheme
- Landfill Tax



Initial press reporting

July 31, 2008

Glasgow unveils 135m autoclave plans

Glasgow city council has outlined plans to spend £135 million on autoclaving waste treatment technology – potentially the largest investment by a local authority in the technology to date.

The start of a journey

The Land and Environmental Services, Policy, Development and Scrutiny Committee of 4 February 2009 approved the outline Waste Strategy which detailed a sustainable long term strategy for the management of waste within the City.



Authority to progress the procurement of the Residual Waste Treatment project was obtained at the Executive Committee of 20 February 2009.

The procurement process

- ➔ Competitive dialogue procedure
- ➔ Technology neutral
- ➔ Driven by performance output objectives
- ➔ Defined review / approval gates



OJEU

Key stages of procurement



July 2012
Viridor (Glasgow) Ltd

FINANCIAL CLOSE



The preferred solution - GRREC



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Phil Eyre

Director of Operations ERF

Viridor



Key Project Dates

- Procurement Commencement January 2010
 - Contract Award – January 2012
 - Financial Close – July 2012
 - Planning Application/Award – submitted August 2012, achieved April 2013
 - Construction Commencement – June 2013
 - Operational Take Over - January 2019

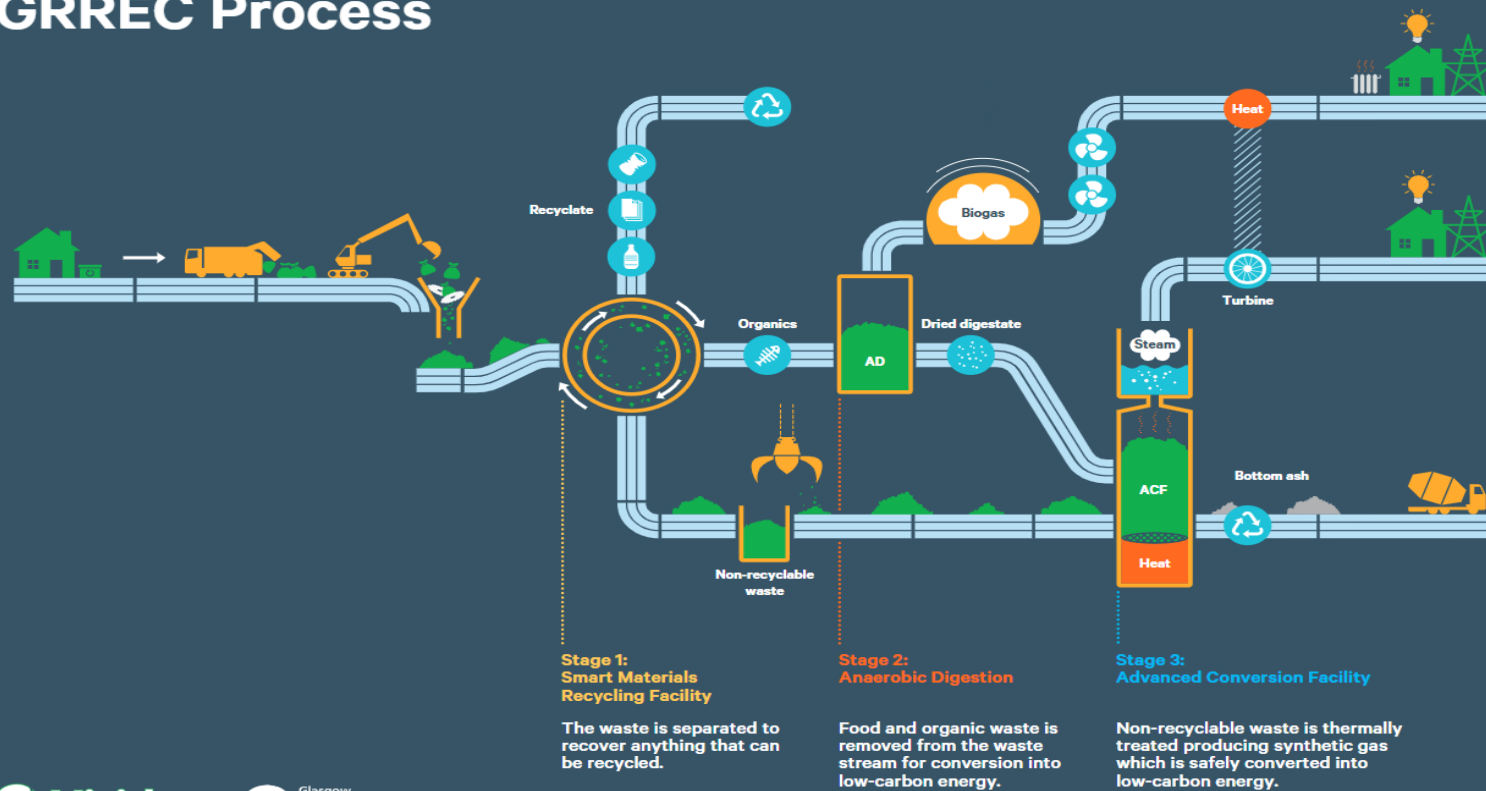
 - **9 Years from procurement to operation**
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Challenges Overcome

- Gain planning permission for treatment solution incorporating EFW within city boundary
 - Exemplar City Wide Community engagement
- Technology Selection
 - To meet procurement specification and Scottish Waste Policy
- Supply Chain Selection & Management
 - Technology Supplier Insolvency
- Completion
 - Supplier Performance – Viridor self delivery to project completion
- Operational
 - Technology/Process integration



GRREC Process



Viridor

Glasgow
Recycling and
Renewable
Energy Centre



Looking to the future – challenges

- Inclusion of EfW in UK ETS
- Changes in composition – policy / legislation
- Balancing GMT versus improving recycling
- Protecting the facility – fire / explosion risks



Looking to the future – opportunities

- ➔ Delivering the Resource & Recycling Strategy
- ➔ Supporting a District Heat Network
- ➔ Potential for carbon capture
- ➔ New markets for mixed plastics / aggregates

