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Future Waste Facilities

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**difference** | gwnewch  
**wahaniaeth**



# Prosiect Gwyrdd Overview



## **The Interim Contract**

- Cardiff Council entered into a separate Interim Contract in September 2014
- Benefited from reduced disposal costs compared to landfill
- Diversion of BMW from Landfill

## **The Main Contract Prosiect Gwyrdd**

- Contract signed 10<sup>th</sup> December 2013
- Construction of merchant plant had Commenced July 2013
- Construction and Commissioning completed February 2015
- Full PG Contract Commences 1<sup>st</sup> April 2016, 9 month commissioning period commenced 01 September. 2015
- Bottom Ash and Air Pollution control residues (APCR) recycling secured
- Through a further separate contract also Recycling Bottom Ash

# P&G Contract



## Contract Specific Guarantees:

- To Recycle 100% of the IBA
- Contributing ~ 7% to Partner MSW Recycling
- 100% BMW Diversion
- Secure Waste Disposal for 25 Years
- Secured Opportunity to Recycle APCR
- Delivered an R1 CHP Enabled Facility
  - = Energy Recovery Facility
  - 20MW Thermal Heat Network Opportunity

# Stakeholder Communications



## Ongoing:

- Provision of a Visitors Centre at the Facility
- Community Liaison Group
- Established Correspondence Protocol
- Established Complaints Protocol
- Established Media Protocol
- Twice Yearly Newsletter

# Cardiff Organic Waste Treatment Contract



- Contract Signed with Kelda Organic Energy Ltd 15<sup>th</sup> April 2015
- Contributes to WG Statutory Recycling Targets
- Guarantees 97% of Food and Green Waste delivered to be recycled
- Recycling or landfill diversion of contaminants (biobags)
- 15 years security of WG funding for recycling and waste treatment
- Planned Services Commencement Date 31<sup>st</sup> March 2017

## Facilities Being Provided

- 35,000 tpa CHP enabled AD facility for food at Tremorfa
- Electricity Output 13,683 Mwh /a, equivalent to 4,000 homes
- Direct wire electricity off take to Welsh Water Treatment Site
- Heat Potential 8,052 Mw/a potential to supply Welsh Water or feed into possible future heat main
- Digestate/soil conditioner output 33,273 tonnes per annum



# Facility Design



Construction on site commenced July 2015 Capital Cost of Facility c/c. £13.6 Million

# Open Windrow Composting



Provision of 38,000 tpa OWC facility for green waste (reverting asset) based on Lamby Way Council owned asset

Capital Cost of Facility £0.85million

Soil Conditioner output 25,792 tonnes per annum

Construction to commence March 2016

Construction of both facilities will employ 50 people, 15 Permanent



# Household Waste Recycling Centers



- 14/15 Budget approved to move to 2 sites only
- Cabinet Oct 2015 approved - New Lamby and existing Bessemer Road as the 2 sites
- New Lamby construction completion for Summer 2016
- Current Wedal and Lamby will close as new site opens.

# Pending Changes



- Restrict to Cardiff residents only
  - Proof of address
  - Comms beginning for 1<sup>st</sup> Jan 2016 start
- Seasonal opening
- Move existing staff so more support for residents
- New markets – carpets and mattresses

# Reuse



- Promote existing good networks
- Market testing shows interest
- Procurement routes (3 options)
  - Lease facility (Leeds Council)
  - Profit share (Newport Council)
  - Procure a “cherry pick arrangement” (Common place)
- Containers on HWRCs to place items

# Regional Infrastructure

## – the next steps



- Had success with PG and organics, so now taking the next step and looking at recycling.
  - Future proof,
  - high quality materials,
  - secure best prices,
  - flexible,
  - economies of scale
- Working with Local Partnerships as linked to how we collect from the Kerbside.
- Strategy phase 4



# Questions