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PRESENTATIONS

Committee ENVIRONMENTAL SCRUTINY COMMITTEE

**Date and Time
of Meeting** TUESDAY, 2 APRIL 2019, 4.30 PM

Please see attached the Presentation(s) provided at the Committee Meeting

10 **Presentations** (*Pages 3 - 12*)

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Lamby Way Solar Farm

Environmental Scrutiny April 2019



Gweithio dros Gaerdydd, gweithio gyda'n gilydd
Working for Cardiff, working together



Lamby Way Solar Farm

1. Overview

2. June 2018 Cabinet Decision

3. Project development

- Detailed technical feasibility
- Private wire negotiation
- Planning
- Ecology and Environment
- Procurement

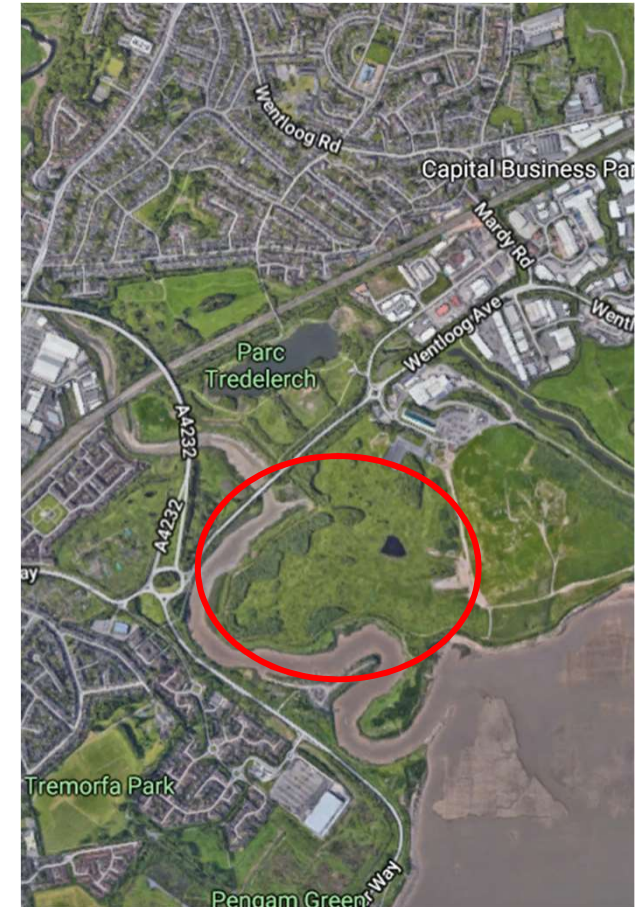
4. Next Steps



Overview

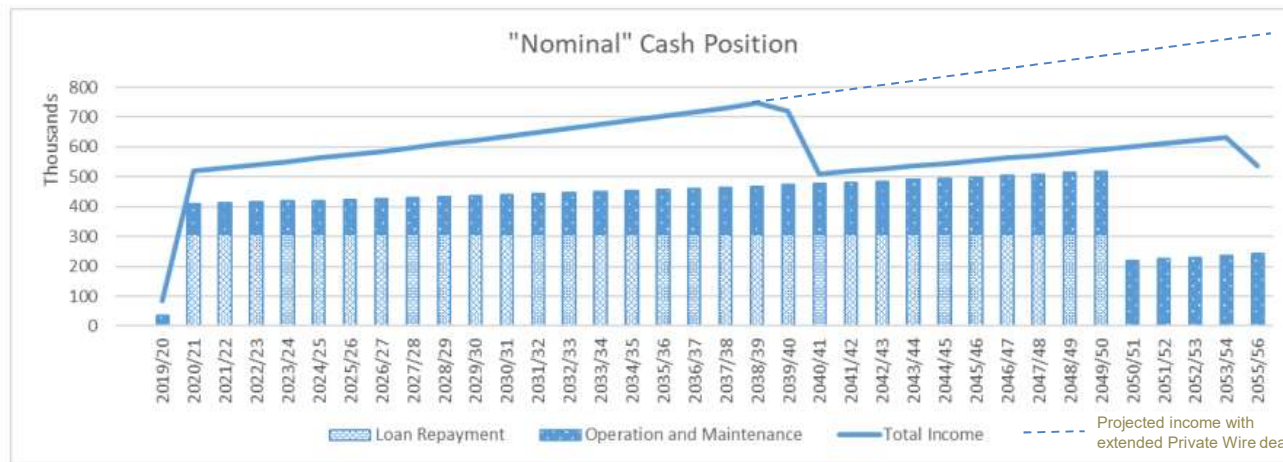
LAMBY WAY - Capped Landfill Site capable of providing around 8.5MW of clean, renewable energy

- Equivalent to energy consumed by 2,600 average homes
- Offsetting approx. 1,600 tonnes of CO² emissions p/a
- Delivers on national and local targets for carbon reduction and energy security
- Attractive return on investment



June 2018 Cabinet Decision:

- Approved Outline Business Case...
 - Positive return on investment throughout
 - Enhanced by 20 year “Private wire” arrangement with Welsh Water

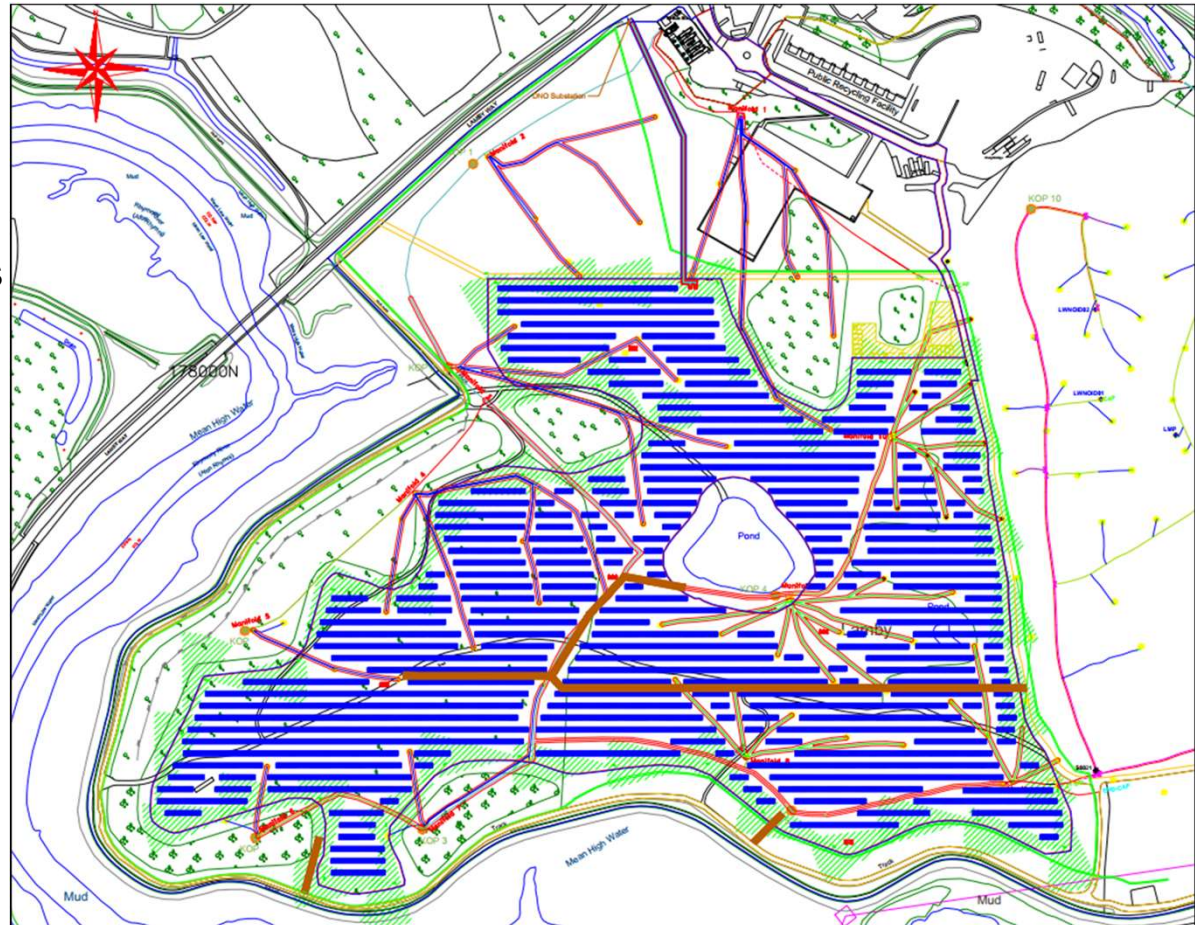


- ...and triggered next steps:
 - to develop Full Business Case – Detailed technical feasibility
 - to prepare and submit a planning application;
 - to finalise negotiations on the private wire offtake;
 - to commence procurement of a design and build contractor.



Detailed Technical Feasibility:

- Solar Electrical Engineers engaged
- Detailed layout developed, incl all known site constraints
 - Landfill cap protected
 - Landfill gas infrastructure protected
 - Ecology protected/enhanced
- Working performance model produced
- Detailed specification and performance guarantees for tender developed



Private Wire Negotiation

- MoU signed with Dwr Cymru/Welsh Water
- Detailed “Power Purchase Agreement” (PPA) developed and agreed
 - 20 year contract term – index linked
 - Significant uplift to our sale of energy price compared to supply to grid
 - Significant Saving for DCWW
- PPA ready for signing following final Cabinet Decision
- Separate Civils Contract procurement to install private wire – 2 potential route options



Planning Application

- Submitted Feb 19
- Includes Reports on:
 - Design and access
 - Ecology (surveys and protection strategies)
 - Visual impact
 - Flood and drainage
 - ...etc.
- Decision 17th April Planning Committee

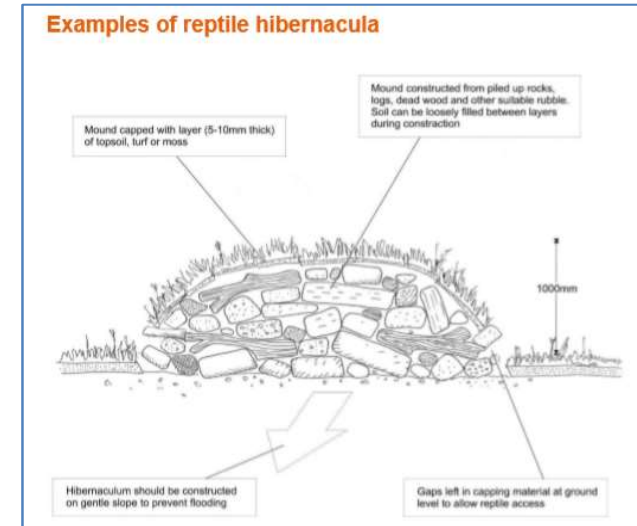


Typical "Ballasted" construction example
No penetrative fixings allowed on the landfill cap



Ecology and Environment

- Reptiles, slow worms and protected species
 - Translocation before construction
 - Improved habitats to be include in development
- Birds
 - Strict development window to avoid nesting and overwintering seasons (heavy construction limited to July-Oct)
- Ecological management plan for lifetime of solar farm
- Completion of Wales Coastal Path and other public site access – facilitated through scheme's security fencing and CCTV



Next steps

	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec	→			
Planning Appplication Submitted	22nd														
Tender released		29th													
Planning Committee			18th												
Tender returns				3rd											
Cabinet Decision				16th											
Contracts signed				26th											
Ecology Translocation				10 weeks											
Contract mobilization				10 weeks											
Development							12 weeks								
Connection															
Performance testing											2 years				
Full O&M Contract													30 years		

Critical points: Planning Consent
Final Price following tender
Cabinet Approval



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