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CYFLWYNIADA

Pwyllgor PWYLLGOR CRAFFU AMGYLCHEDDOL

**Dyddiad ac amser
y cyfarfod** DYDD MAWRTH, 2 EBRILL 2019, 4.30 PM

Os gwelwch yn dda gweler ynghlwm y Cyflwyniad(au) a ddarperir yn y Cyfarfod Pwyllgor

10 **Cyflwyniadau** (*Tudalennau 3 - 12*)

Mae'r dudalen hon yn wag yn fwriadol



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

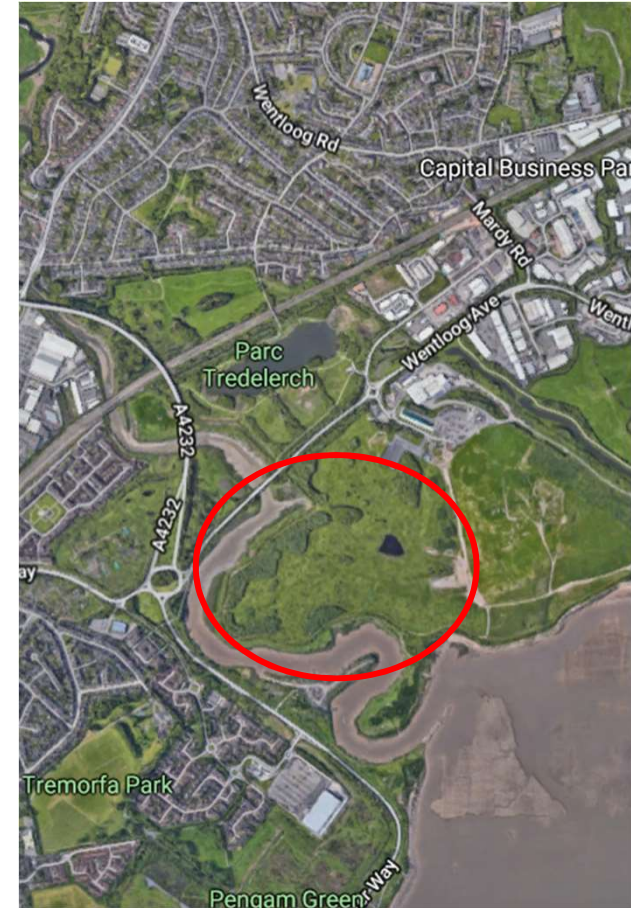
4. Next Steps



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

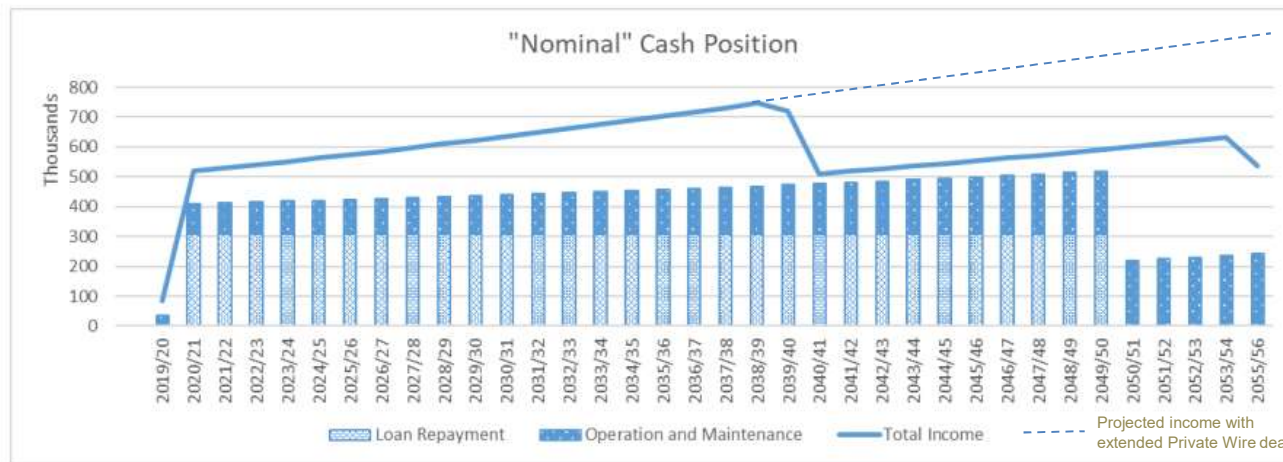


Tudalen 5



June 2018 Cabinet Decision:

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

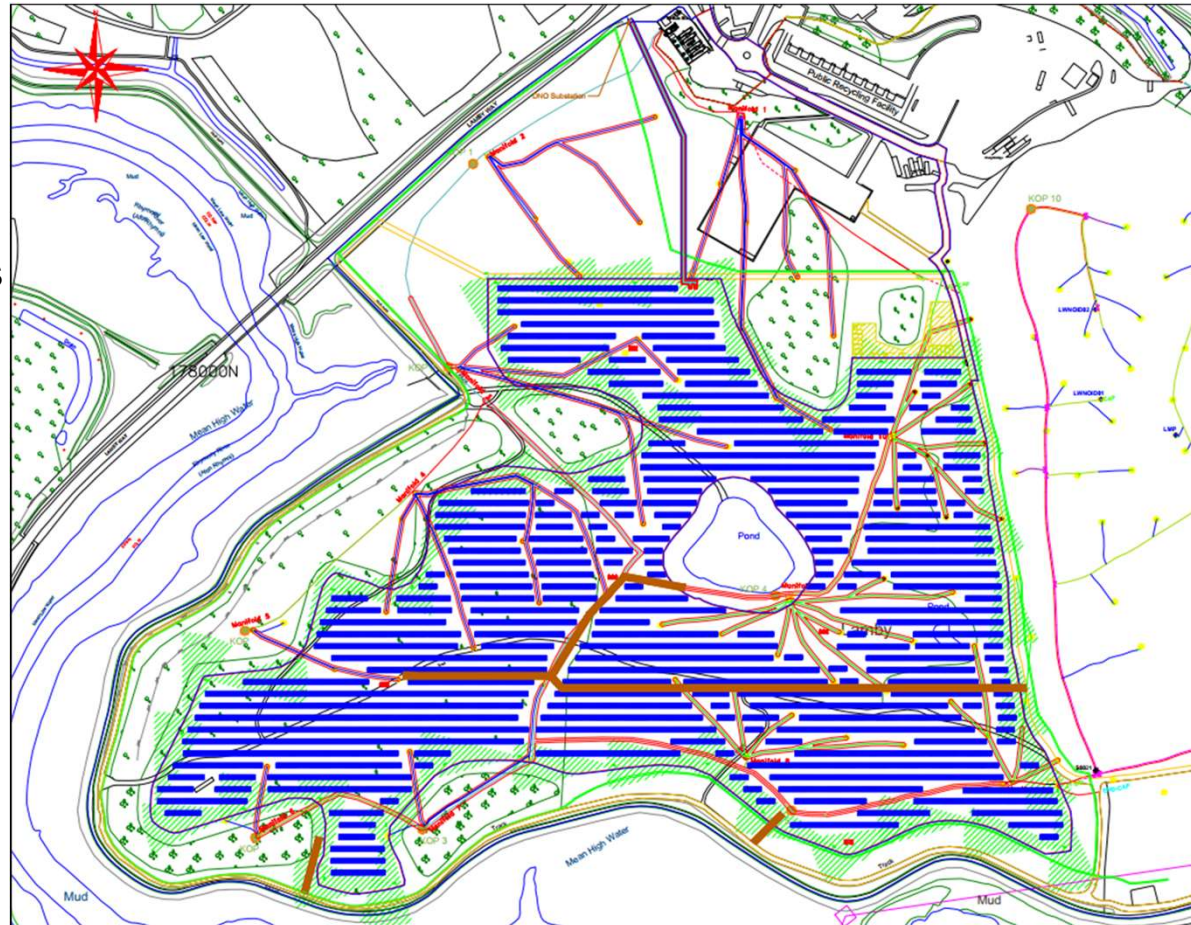


- ...and triggered next steps:
 - to develop Full Business Case – Detailed technical feasibility
 - to prepare and submit a planning application;
 - to finalise negotiations on the private wire offtake;
 - to commence procurement of a design and build contractor.



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



Tudalen 7



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

Tudalen 9

- 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



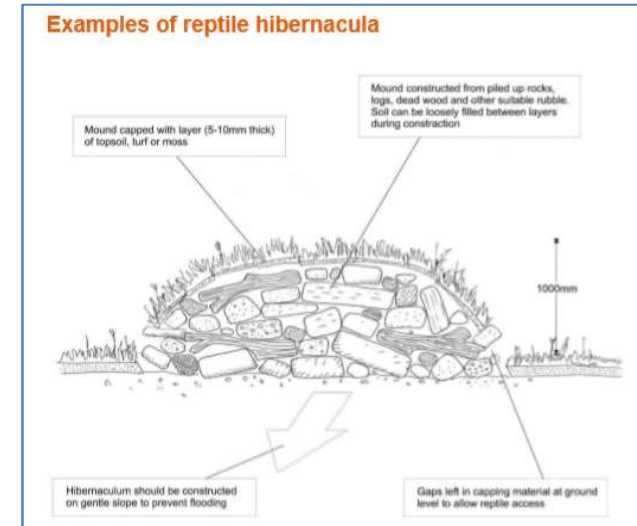
Typical "Ballasted" construction example
No penetrative fixings allowed on the landfill cap



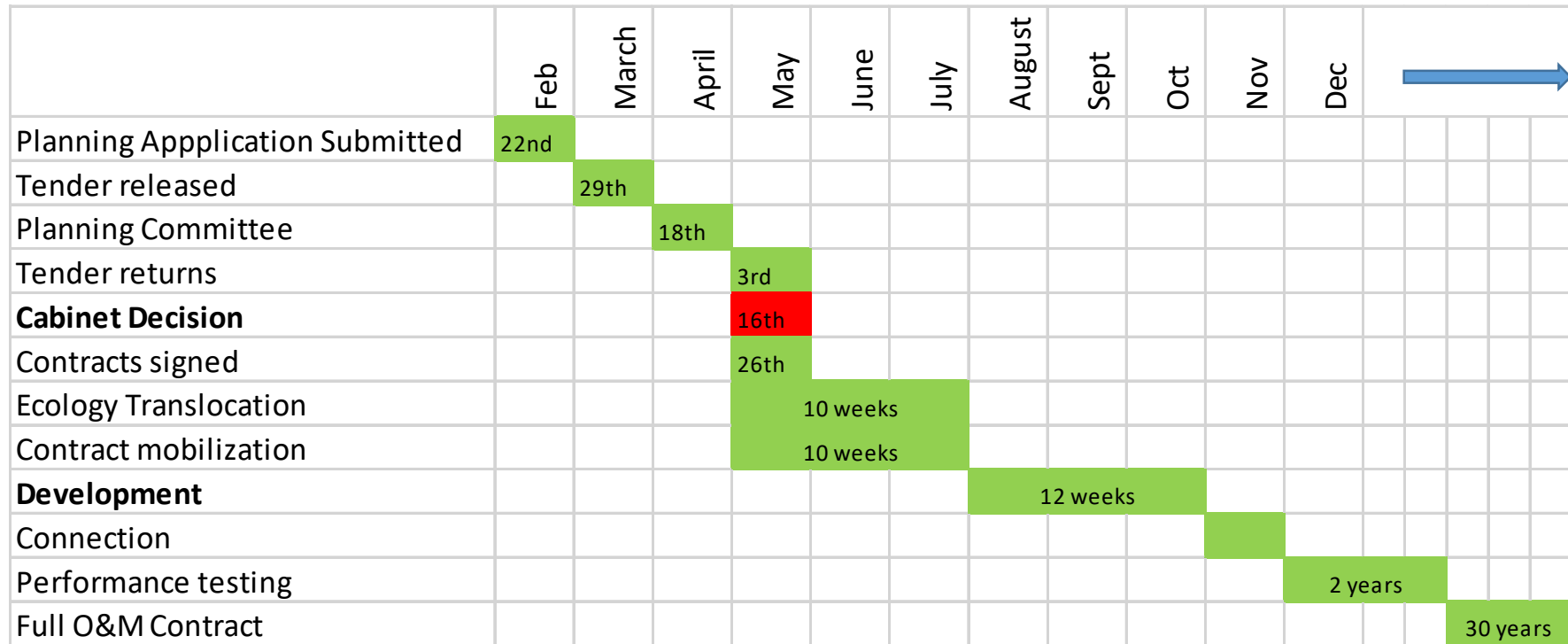
Ecology and Environment

- Reptiles, slow worms and protected species
 - Translocation before construction
 - Improved habitats to be included 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



Tudalen 11

Critical points: Planning Consent
 Final Price following tender
 Cabinet Approval



Mae'r dudalen hon yn wag yn fwriadol