

Henry Review of Tidal Lagoons

Project Description

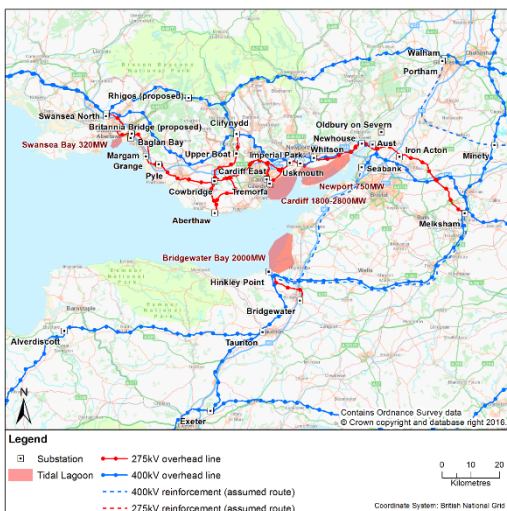
Charles Hendry was appointed in May 2016 to assess the strategic case for tidal lagoons; whether they could represent value for money for the consumer and the role they could play in the UK's energy mix.

ITPenergised was appointed under the Business Energy and Industrial Strategy (BEIS) Technical Specialist Framework as the technical advisor to the Hendry review.

Project Details

The independent review included:

- an assessment of whether tidal lagoons could play a **cost effective role** as part of the UK energy mix
- the potential **scale of opportunity** in the UK and internationally, including supply chain opportunities
- consideration of a range of possible **structures for financing** tidal lagoons
- consideration of different sizes of projects as the first of a kind



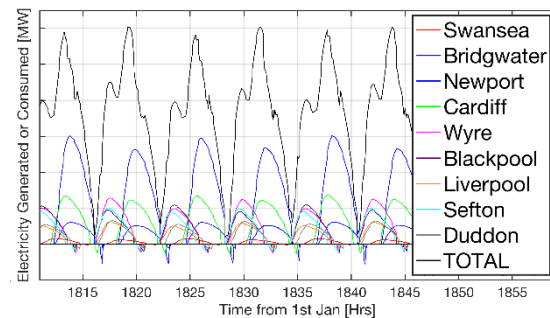
Severn projects and transmission network

Contact

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Our Role

ITPenergised led a consortium of experts comprised of engineers and environmental scientists to support the review team in technical and commercial matters.



Cumulative output of a fleet of lagoons.

Our team carried out a **pre-feasibility study** on a potential UK lagoon programme, based on submissions received under the Review's call for evidence and ITPenergised's own analysis. We researched aspects of a potential **lagoon programme** including:

- Value of energy including **cost of energy, security of supply and carbon saving**
- Lagoon **site finding and numerical modelling of UK lagoon programme scenarios**
- **Environmental Screening and planning**
- **Value comparison** of all identified lagoon sites
- **Energy production modelling and system operability considerations**
- Future **cost reduction potential**
- **Grid impacts** in the Severn region.
- **Global opportunities and supply chain**

Client



Department for
Business, Energy
& Industrial Strategy

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