



severn
tidal power

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ar afon **hafren**

Severn Tidal Power Feasibility Study

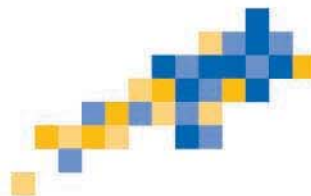
Meeting with West of England authorities – 16 April 09

Sarah Rhodes - DECC



HM Government

Department of Energy
and Climate Change



South West RDA



Llywodraeth Cynulliad Cymru
Welsh Assembly Government



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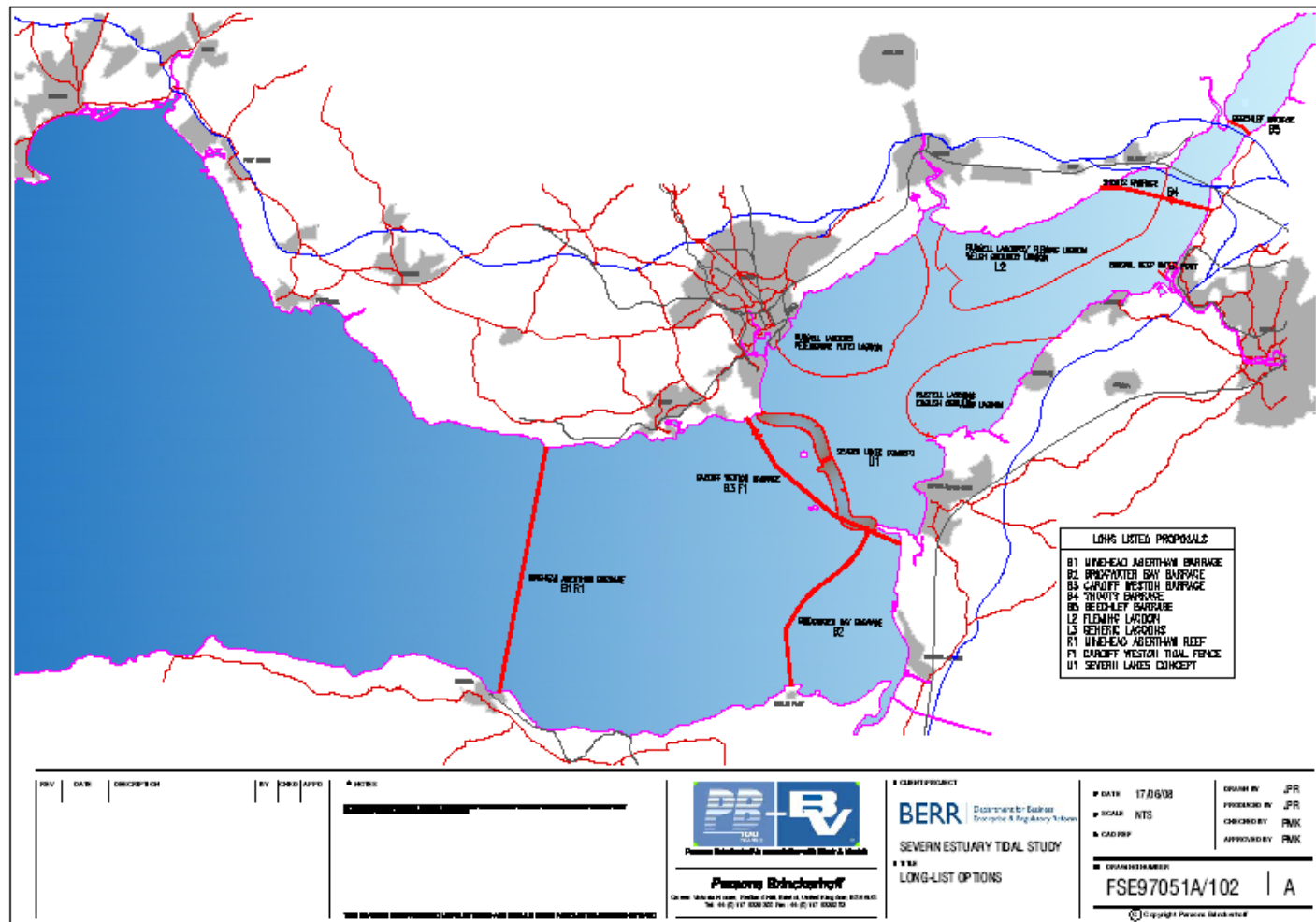


Feasibility study background

- 2 year study concluding in 2010
- Aim: To enable Government to decide if it could support a tidal power scheme in the Severn Estuary and if so on what terms?
- Looking at strategic case for Severn tidal power, pros and cons, deliverability
- 7 Government Departments WAG and SW RDA
- 3-5 year planning and, if consented, 5-10 year construction periods would follow
- 10 potential scheme options



10 scheme options





Proposed shortlist of schemes

5 proposals are recommended for further study -

- **Beachley Barrage** (625 MW, £2.3bn construction cost)
- **Bridgwater Bay Lagoon** (1.36 GW, £3.8bn cost)
- **Cardiff-Weston** (8.6 GW, £20.9bn)
- **Fleming Lagoon** (1.36 GW, £4bn)
- **Shoots Barrage** (1.05 GW, £3.2bn)



Embryonic technologies

- Schemes proposed for the shortlist are those we believe could be feasible;
- Tidal reef and tidal fence –not sufficiently developed for further analysis, but may be less environmentally damaging;
- A new £500,000 fund launching today to support the development of embryonic technologies, and their progress will be taken into account before decisions are taken whether to go ahead with a Severn tidal power scheme



The consultation

- The study is at the end of its first phase and consulting on:
 - **assessment process**
 - **the proposed short list of schemes for further investigation**
 - **scope of work including Strategic Environmental Assessment**
- Also sets out findings so far. All studies published for comment
- The public consultation closes on **23 April 2009**. 500+ responses so far
- Preparation for second public consultation, probably in 2010.



Stakeholder engagement

- Meetings held with most local authorities; others scheduled
- Several meetings with Ports; exchange of letters with Bristol Port
- Also met MPs, SW TUC, NGOs, and others. Limited public engagement
- Issues raised include:

Strategic case: how STP compares with alternatives

Shortlist: calls to exclude Cardiff-Weston, and include outer barrage and new technologies. Atkins review of options appraisal

Regional impacts: comments on assumptions and evidence base of DTZ study. Interest in cumulative impacts of development

Working together: more direct involvement in phase 2

Views on impacts: full range



Next phase of work

Economic - strategic case

- evaluation framework and impact assessment
- commercialisation, subsidy mechanism, public role and costs

Environmental – SEA and regulatory compliance, ecosystem valuation

Engineering - scheme optimisation, costs, supply chain, energy yield and profile, impact on energy markets and grid

Regional - economic and social impact. Impact on local area

Consents –planning and consents process

Communications – consultation response June/July

- working with stakeholders and
- raising public awareness



Leading to ...

- Advice to ministers April 2010
- Public consultation
- Decision late 2010
 - to offer package of support for preferred scheme/s to go ahead, and move to full feasibility work leading to planning and consents application
 - to delay, to 'back pocket' a scheme and potentially wait for new technologies to develop
 - not to support a scheme



Further Information

Issues for discussion

- any questions on the consultation and your responses
- next phase of work, does this look broadly right?
- working with you in phase 2

To read and download the evidence gathered in phase 1 and to take part in the consultation (by 23 April 09) –

<http://severtidalpowerconsultation.decc.gov.uk>