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Morlais Demonstration Zone

Response to questions raised in the public speaking sessions

Document Title: Response to questions raised in the public speaking sessions regarding public consultation

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Contents

Response to questions raised	4
Appendix 1	8
Appendix 2	13
Appendix 3	31
Appendix 4	33
4.1 Response 1 Holyhead Sailing Club	44
4.2 Response 2 Caernarfon Harbour Trust	48
4.3 Response 9 Royal Yachting Association	56
4.4 Response 11 Trearddur Bay Sailing Club.....	59
4.5 Response 14 North West Ventures Yacht Club Beaumaris.....	61
4.6 Response 15 Marine and Coastguard Agency	63
4.7 Response 16 Traeth Coch Sailing Club	67
4.8 Response 18 Sea Kayaking UK.....	70
4.9 Response 20 Welsh Yachting Association	72
4.10 Summary of Environmental Consultee responses	76
Appendix 5	85

Response to questions raised

In response to questions raised at the Public Speaking session Menter Môn were asked by the Inspector to clarify when the public were made of the surface emergent elements of the project.

This note provides clarification on this and also addresses four other points raised in the first week of the Inquiry with respect to consultation. The points addressed in this note are therefore:

1. When and how the public were made of the proposed surface emergent elements of the Morlais project.
2. A question from Mr Pattullo who subsequently clarified this in an e-mail to Menter Môn’s counsel. He asked “what I wanted to know from Mr Bell in the context of public consultation was if and when as a resident of Anglesey should I have received to my household, either by leaflet, newspaper or internet any picture of what the Morlais Project would look like when fully installed”.
3. A statement by Ms Fran Targett (Canoe Wales and Snowdonia Canoe Club) that kayakers had first heard about the project in late 2019.
4. A suggestion from Ms Fran Targett that other areas of Anglesey should be considered for a tidal energy project instead of the MDZ.
5. A suggestion by Mr Llewellyn as to there being a “public viewing platform” from which there are views of the cliffs on which cable may have to be laid.

1) When and how the public were made aware of the proposed surface emergent elements of the project in the pre-application period?

Date	Document/Event
19/04/2018	Morlais Tidal Demonstration Array Scoping Report
03/12/2018	Press Release: New Scottish deal for Anglesey tidal energy project
15/3/2019	Project Newsletter advertising Public Information Day 1 (sent copies to 6,500 local in the LL65 1 and LL65 2 post code areas, Holy Island.)
19/03/2019	Public Information Day 1 Llaingoch Community Centre with boards and laminated images showing surface emergent devices
29/03/2019	Coleg Menai Careers Fair
24/05/2019	Posted on Morlais website and disseminated to Morlais mailing list, mailshot 7,400 local residences (Washington Direct Mail 24/05/2019)
11/06/2019	Public Information Day 2, Trearddur Bay Hotel with boards and laminated images showing surface emergent devices
12/06/2019	Public Information Day 3, Ucheldre Centre, Holyhead with boards and laminated images showing surface emergent devices
16/06/2019	Daily Post article showing the project visualisations of surface emergent devices
17/06/2019	Public Information Day 4, Holyhead Town Hall with boards and laminated images showing surface emergent devices
Jul-19	Landowner Bulletin
13/08/2019 14/08/2019	Anglesey Show, Mona Showground

See evidence of the images presented for each item on the list in Appendix 1. A brief further summary of the Public Information Days (PIDs) is included at Appendix 2. It is thus clear that from early 2018 (over one year before the TWAO application was made) there were many images made available to the public showing surface emergent devices. Of course, all of the information submitted with the TWAO itself in September 2019 including the SLVIA also showed this.

2) How has information has been provided to local residents and when?

Full details of the pre-application consultation is included in MDZ_A9. Note that local residents received mailed newsletters in March and May 2019.

By way of a summary; media, social media, press advertisements, project newsletters and notices were among the techniques used to raise awareness and publicise the Morlais project.

Press releases were issued to raise awareness and of consultation on the Morlais project. These included details of the Public Information Days, the consultation process as well as public exhibitions and any significant project developments. Earlier press releases would have been issued during the initial engagement stage.

However, for the period relevant to the engagement phases identified as part of the engagement and consultation strategy (see section 5.5 of MDZ_A9), the following press releases were issued (copies included at Appendix 2 of MDZ_A9):

- Outline of economic and community benefits to Anglesey
- Morlais signs deal with Orbital - Scottish developer of tidal energy devices
- Announcing first Public Information Day
- Announcing second series of Public Information Days
- Morlais signs deal with Canadian Developer – Big Moon Power
- Announcing new NDA funding for Morlais
- Letter to the editor of Daily Post with an update on Morlais and setting out local benefits
- Letter to the editor of North Wales Chronicle with an update on Morlais and setting out local benefits

Several media interviews were also undertaken on BBC Radio Cymru, Captial FM, and Môn FM to coincide with both sets of Public Information Days (March and June 2019).

A briefing was given to the business editor of Daily Post which resulted in two-page feature with an overview of the project in May 2018. Another article including visualisations of the surface emergent devices was published in June 2019.

Social Media has been used throughout the pre-application phase with a stream of news on project developments and informing the public on how they can provide feedback and share their views on Morlais as well as details of Public Information Days and other events. Full use was made of the Menter Môn Facebook pages for this purpose as well as Morlais' own Twitter channel.

3) When kayakers had been consulted about the project

The suggestion of Ms Fran Targett that kayakers were not made aware of the Morlais project until late 2019, that is to say after the TWAO was applied for, is incorrect.

For a start, Kay McManus, Chair of Snowdonia Canoe Club attended the Public Information Day on 11th June 2019 and signed a comment sheet (see Appendix 3).

Canoe Wales were also invited to the Public Information Days in March and June 2019.

In addition, pre-application consultation was undertaken with kayakers as follows:

- 2013 early stage consultation – Sea Kayaking UK (Nigel Dennis) (Appendix 4). Please note that this was not as Mr Dennis tried to suggest a response in relation to the Skerries Tidal Array project but rather a response in relation to Menter Môn’s initial consultation with respect to a number of possible locations for a tidal energy project around Anglesey (see section 4).
- Local clubs were provided with information and invited to Public Information Days in 2019
 - Anglesey Sea Kayaking
 - Anglesey Water Sports
 - British Canoeing
 - Canoe Wales
 - Sea Kayaking Wales
 - Steve Miles Sea Kayaking
- Additional responses were received with respect to kayaking at Public Information Day 2
- Further consultation has been undertaken post-application

4) Other areas of Anglesey should be considered for a tidal energy project instead of the MDZ

Early engagement consultation was undertaken by Menter Môn in 2013. This included 4 options for potential tidal energy sites around Anglesey and asked stakeholders to state which site would be preferable. The consultation was limited in terms of information provided owing to the early stage of the project, however whilst concerns were raised about navigation, the area around South Stack i.e. in the same location as the MDZ) was identified as being one of the more suitable options by 5 of the 10 navigational stakeholder responses. 2 did not describe a preference and 3 of the responses said no location would be suitable.

No.	Navigation stakeholder	Comment on proposed possible locations
1	Holyhead Sailing Club	None of the proposals are suitable
2	Caernarfon Harbour Trust	Most suitable area is of South Stack
9	WYA	None of the proposals are suitable
11	Trearddur Bay Sailing Club	No comment on location
14	Beaumaris yacht club	Mike Butterfield states that of all the options Holy Island is best
15	MCA	On initial assessment Holy Island seems to have feasibility
16	Traeth Coch Sailing club	South Stack probably the best location
18	Sea Kayaking UK	No comment on location
19	Port Dinorwic	Holy Island appears to be suitable
20	RYA	None of the proposals are suitable

Appendix 4 includes the consultation request and a copy of the responses.

5) Mr Llewellyn’s “viewing platform”

During the public speaking session Mr Llewellyn appeared to describe a Council owned ‘Public Viewing Platform’ at the landfall site from which he presented drone footage of a view of the contingency landfall cabling option. It would appear to be disingenuous to refer to this location as a council owned public viewing platform for the following reasons:

- 1) It is wholly within Mr Llewellyn’s land title (see orange point in Appendix 5.1)
- 2) It is not recognised as a public right of way (see orange point in Appendix 5.2)
- 3) To reach this location on Mr Llewellyn’s land, you would be required to traverse a dangerous and significantly overgrown cliff top (See appendix 5.4)



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Appendix 1 – Evidence of surface emergent devices in public materials

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Date	Image evidence	Document/Event
19/04/2018	 <p>Device</p> <p>Scotrenewables Tidal Turbine</p>	Morlais Tidal Demonstration Array Scoping Report
03/12/2018		Press Release: New Scottish deal for Anglesey tidal energy project
19/03/2019		Public Information Day 1 Llaingoch Community Centre

<p>29/03/2019</p>		<p>Coleg Menai Careers Fair</p>
<p>Jun-19</p>		<p>Posted on Morlais website and disseminated to Morlais mailing list, mailshot 7,400 local residences (Washington Direct Mail 24/05/2019)</p>
<p>11/06/2019</p>		<p>Public Information Day 2, Trearddur Bay Hotel</p>

<p>12/06/2019</p>		<p>Public Information Day 3, Ucheldre Centre, Holyhead</p>
<p>17/06/2019</p>		<p>Public Information Day 4, Holyhead Town Hall</p>
<p>Jul-19</p>	<div style="text-align: right;">  </div> <p>Morlais – Project Update July 2019</p> <p>Local focus</p> <p>Morlais is a community project – run by local social enterprise Menter Môn. Menter Môn is well established and is respected on the island. It has delivered many successful projects over three decades, including several in and around Holyhead, such as the renovation of town hall, development of the coastal path, the cafe at the Breakwater Country Park and the Trearddur Bay oyster festival.</p> <p>A key driver for Morlais like all other Menter Môn projects is to deliver local benefits to the community the economy and the environment. The team at Morlais believe that this is an opportunity to put Anglesey on the map in terms of low carbon energy as well as securing local jobs and creating supply chain opportunities. It is a local project run for the benefit of Anglesey.</p> <p>What is the 'West Anglesey Demonstration Zone'?</p> <p>Menter Môn secured a 45-year lease in 2014 from the Crown Estate for what was referred to as the "West Anglesey Demonstration Zone". Now known as Morlais, the project has always been about deploying different tidal energy devices and technologies within the zone - this includes devices anchored to the seabed, in mid-water as well as floating.</p>	<p>Landowner Bulletin</p>

13/08/2019
14/08/2019



Anglesey Show, Mona Showground

05/03/2020



Hosted supply chain event



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Appendix 2 – Further evidence of the Public Information Days

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March 2019 Newsletter

PROJECT NEWSLETTER NO.1 MARCH 2019

IN THIS ISSUE...
 About the project
 Menter Môn
 Public Information Day

WELCOME

Welcome to the first Morlais project newsletter, produced to inform the local community about the development. If you have any feedback, you are interested in knowing more about the proposals, or want to get involved in project related initiatives – we want to hear from you!

What is Morlais?
 Morlais is a Menter Môn project which aims to benefit local communities, the economy and environment through renewable low carbon electricity generation. The Morlais project manages a 3.5 km² area of seabed known as the Vintar Anglesey Demonstration Zone, and once developed has the potential to become one of the largest tidal stream energy sites in the world.

The first stages of the project aims to secure consent for the development of the demonstration zone, with community consultation a key part of this. Submission of the consent application is planned for July 2019. Subject to receiving consent, the second stage aims to put the necessary infrastructure in place for developers of tidal stream energy converters to demonstrate their technology on a commercial scale.

With funding support from Welsh Government, Welsh European Funding Office (MEPOL) Ltd of Anglesey County Council, Nuclear Decommissioning Authority and the private sector, Morlais has the potential to achieve over time to maximum electricity generating capacity of 2,600MW.

Offshore there will be tidal energy converters, seabed cables and hubs connecting groups of tidal energy converters together into arrays. Onshore there will be landfall substations, underground power cables and a grid connection substation.

As a multi-million pound investment, Morlais is gaining support and has been included in the list of the top ten energy investment projects released by the UK Government recently.

The ambient Morlais project is different as it is not run by a private company and aims to provide a sustainable source of revenue for investment locally through Menter Môn initiatives. An important objective is to secure maximum benefits to the coast and create economic opportunities for local people and businesses during construction and operation.

What is tidal stream power?

Tidal streams or currents are created by the constantly changing gravitational pull of the moon and sun on the world's oceans. By using tidal stream energy converters, it is possible to capture the energy of the sea's currents to generate electricity.

Due to the predictability of the tides, generating electricity in this way provides a reliable and consistent energy source. The technology needed to generate electricity using the tides is rapidly developing, and there is growing worldwide interest in this emerging renewable energy sector.

Wales, and Anglesey in particular has some of the best tidal current resources in Europe.

Morlais gains political backing

Welsh Government
 AM for Tŷnys Môn said:
 "Morlais is key to ensuring that we are at the forefront in terms of developing tidal energy technologies for the benefit of future generations. There is great potential for employment in this sector, and I'm pleased to support the project."

AM for Tŷnys Môn said:
 "Morlais is a pioneering project, well-suited to the local and natural environment of Anglesey's coastal area. Marine Energy is a vital component of both the Welsh and UK Governments' low carbon strategies. The project can be the catalyst for boosting the local economy with opportunities in research, manufacturing and the supply chain."

Orbital Marine Energy
 Orbital Marine Energy CEO Andrew Scott said:
 "The Morlais project gives us the potential to develop a commercial tidal energy array in UK waters. The concentration of tidal energy off the coast here, supported by great infrastructure in north Wales, makes this an ideal location to develop a marine industry."

Church Unionist Society, Director with Morlais said:
 "This is great news for us and shows that there is confidence in what we are aiming to achieve on Anglesey. Orbital Marine Energy has a great reputation for innovation in this sector and we are delighted to be working closely with them."
 "One of our key aims is to secure maximum benefit to the community through the project. By creating jobs and generating income to be reinvested locally through Menter Môn initiatives, Orbital understand the importance of this and are keen to get on board."

Orbital Marine's CEO Andrew Scott said:
 "The Morlais project gives us the potential to develop a commercial tidal energy array in UK waters. The concentration of tidal energy off the coast here, supported by great infrastructure in north Wales, makes this an ideal location to develop a marine industry."

Menter Môn - a local success story...

Menter Môn is a social enterprise which works across the north of Wales to deliver a range of regeneration, environmental and cultural projects for the benefit of local communities. By working in partnership with government, the third sector, business and individuals, Menter Môn attracts funding from different sources to add value and to contribute to creating a sustainable future. Since it was established in 1996 it has delivered projects across a range of sectors with a combined value of £70 million.

Over the years, Menter Môn has supported many local projects, highlights include:

- Holyhead Town Hall refurbishment
- The Upholster Arts Centre
- The Oyster Festival in Traarddar Bay
- Malltrafnwl Maelo Nursery in Holyhead
- Holyhead Sea Cadets Bankhouse Accommodation
- Caban Kiangland Nursery
- Colly's Tŷr in the Breakwater Country Park
- Holyhead and Anglesey Weightlifting and Fitness Centre
- The development of the Anglesey Coastal Path
- Holyhead Maritime Museum

For a list of current Menter Môn projects, please visit:
www.mentermom.com

How can I get involved?

Engaging with the community is how Menter Môn approaches all its projects, and this is particularly important for Morlais. By working with the community to identify opportunities and issues, we can be responsive to concerns and local needs.

A public information day has been arranged on the 1st of March at Stangely Community Centre, Holyhead between 11.00 a.m. and 8.00 p.m. Everyone is welcome to drop by to meet the team and to discuss the project.

Contact information
 For further information, please contact us on one of the following ways:
 Menter Môn, Hafoddy Chŷ, Stangely, Ynys Môn, LL77 7JL
 Monday – Friday 1030 to 1700
 01248 723 720
www.morlaisenergy.com
info@morlaisenergy.com

Photos from the event

In attendance at this event from the Morlais team was Frank Fortune (EMMP witness) and the Menter Môn team.

Display boards sharing project information



Project team available to explain the project to the public



(Andy Billcliff, Project Consultant and CPO witness explaining the onshore cable route)



(Gwenan Owen, Project Officer, explaining the offshore element of the project and location of the zone)

Following the agreement with Orbital Marine Power in December 2018, we requested a pop up from Orbital for use at the information day at Llaingoch to highlight their floating technology.



(Ian Hughes, Project Officer, explaining the Orbital Floating device utilising the Orbital Marine Power pop-up board)

The other three PIDs were jointly advertised to be held at the Trearddur Bay Hotel, the Ucheldre Centre and the Holyhead Town Hall on the 11th June 2019, 12th June 2019 and 17th June 2019 respectively.

This notice was also delivered to numerous locations and businesses in Holyhead.

The Event was also advertised in the Holyhead and Anglesey Mail on the 29th May 2019 and 5th June 2019.



Mae Morlais yn brosiect Menter Môn sydd am sicrhau budd i gymunedau yn lleol drwy gynhyrchu trydan dibynadwy carbon isel gan ddefnyddio ynni llif llanw.

I ddarganfod mwy ac i rannu eich barn gyda ni, dewch i'n gweld yn:

Gwesty Bae Trearddur 11.6.2019 rhwng 11:00 - 20:00

Canolfan Ucheldre, Caerdybi 12.6.2019 rhwng 11:00 - 20:00

Neuadd y Dref, Caerdybi 17.6.2019 rhwng 12:00 - 18:00

Bydd mwy o gyfleodd i gyfrannu ac i ymwneud â'r prosiect yn ystod y broses o sicrhau caniatâd i'r cynllun.

Am fwy o wybodaeth ewch i www.morlaisenergy.com neu cysylltwch â ni ar **01248 725 722** ac info@morlaisenergy.com

Morlais is a Menter Môn project which aims to benefit local communities through reliable low carbon electricity generation.

To find out more and to share your views, come and see us:

Trearddur Bay Hotel 11.6.2019 at 11:00 - 20:00

Canolfan Ucheldre, Holyhead 12.6.2019 at 11:00 - 20:00

Town Hall, Holyhead 17.6.2019 at 12:00 - 18:00

There will be more opportunities to get involved with the project during the consenting process.

For further information visit www.morlaisenergy.com or contact us on **01248 725 722** and info@morlaisenergy.com

Part funded by the European Regional Development Fund, through the Welsh Government
Arian yn rhannol drwy Grantia Datblygu Rhanbarthol Ewrop drwy Lywodraeth Cymru



In addition to the notice the project posted a project newsletters containing project information and dates for the Public Information Days to 7,400 residents from the LL65 1 and LL65 2 post code areas via Washington Direct Mail Ltd (again invoice and job completion form can be provided if required). (Washington Direct Mail 24/05/2019)

June 2019 Newsletter

PROJECT NEWSLETTER
NO. 2 JUNE 2019

IN THIS ISSUE...
 Project Update
 Public Information Day
 Morlais news

WELCOME

What is Morlais?
 Morlais is a Menter Môn project which aims to benefit local communities, the economy and environment through renewable low carbon electricity generation. The Morlais project manages a 3.5 km² area of seabed known as the West Anglesey Demonstration Zone, and once developed has the potential to become one of the largest tidal stream energy sites in the world.

The first stage of the project aims to secure consent for the development of the demonstration zone, with community consultation a key part of it. Submission of the consent application is planned for this summer. Subject to obtaining consent, the second stage aims to put the necessary infrastructure in place for developers of tidal stream energy converters to demonstrate their technology on a commercial scale.

With funding support from WMAA Government, WMAA European Funding Office (EFPO), Isle of Anglesey County Council, the Nuclear Decommissioning Authority and the private sector, Morlais has the potential to accelerate over time to enable a maximum electricity generating capacity of 240MW – which could be enough for about 80,000 homes.

What makes the ambitious Morlais project different? It is not run by a private company, and one of its main aims is to provide a sustainable source of revenue to reinvest locally through Menter Môn initiatives and projects.

Welcome to the second Morlais project newsletter, bringing you the latest news from the Anglesey tidal stream energy development.

If you have any feedback, you are interested in knowing more about the proposals, or want to get involved – we want to hear from you. Please don't hesitate to get in touch!

Want to have your say?
 Engaging with the community is how Menter Môn approaches all its projects, this is particularly important for Morlais. A public information day was held in March, so we could listen to people's views, and these more are being held this month. If you want to learn more about the project and tell us what you think, please come and see us at one of the events below:

11 June 2019 Trearddur Bay Hotel, LL65 2UN 11:00 – 20:00
12 June 2019 The Uchelleir Centre, LL65 1TE 11:00 – 20:00
17 June 2019 Holyhead Town Hall, LL65 1AH 12:00 – 18:00

By working together we can identify opportunities and issues and be responsive to local concerns and needs. This is your chance to come and speak to us – don't miss out!

Raising awareness on Anglesey and further afield

Morlais first public information day
 The local community had an opportunity to see plans for the Morlais project at the first public information day held at Llangoch Community Centre on March 19th. The event attracted much interest and was well attended with around 80 people from Holyhead and the local area dropping by to speak to the team. The event was an opportunity for the project team to listen to different viewpoints and gather comments from interested parties on plans are being developed. There will be an opportunity at the next three public information events to hear our response to your initial comments and to see the latest plans for Morlais.

Schools outreach and stakeholder engagement
 The team has also been busy speaking to people here on Anglesey about Morlais, engaging in detailed discussion with statutory consultees such as the Isle of Anglesey County Council and Natural Resources Wales, as well as taking the message further afield.

We believe that Morlais represents a great opportunity for Anglesey and we have to talk to school pupils about the benefits and to hear their views on the project. With this in mind we took part in an Energy Island Q&A event at Ysgol Syr Thomas Jones, Amkloch and at the Council Chamber in Llangoch recently. Pupils from the island's secondary schools attended and were able to talk to different businesses and organisations on the island about different projects and future career opportunities.

We also attended a STEM (science, technology, engineering, mathematical) fair for schools organised by Cores Wales at Collig Manor in Llangoch. The aim was to highlight the career opportunities that come through gaining STEM skills and qualifications. Pupils from across Gwynedd and Anglesey attended and met major local employers including Betsi Cadwaladr University Health Board, Bangor University and the local authorities.

Travelling further, the team attended the Marine Energy Wales conference in Newport, where Morlais director Gerallt Sewall Jones took part in a panel discussion showcasing tidal stream energy. Graham Morley, Project Manager for Morlais attended the All Energy Europe conference in Glasgow, where he met up with some of the developers who have already signed up to Morlais as well as promoting the Anglesey project to an international audience.

How can I get involved? Contact information
 For further information, please contact the team in one of the following ways:
Menter Môn, Neusodd y Draf, Llangefni, Ynys Môn, LL77 7LR
 (Monday-Friday 10:30 to 17:00)
 01488 725 722 • www.morlaisenergy.com • info@morlaisenergy.com

11th June 2019 - Trearddur Bay Hotel, Trearddur Bay, LL65 2UN

In attendance at this event from the Morlais team was Frank Fortune and Simon Myers (Seascope, Landscape and Visual Impact Assessment witness) to provide further technical information as required in addition to the Menter Môn team.



(Frank Fortune explaining the type of technologies within the project envelope – mid column, floating and sea-bed mounted)



(Frank Fortuna and Simon Myers explaining the SLVIA pop-up information board)

12th June 2020 – Ucheldre Centre, Holyhead, LL65 1TE

In attendance at this event from the Morlais team was Simon Myers to provide further technical information as required in addition to the Menter Môn team.



(Andy Billcliff explaining the various tidal energy technologies contained within the consent envelope)



(Graham Morley, Project Manager, explaining the Consent Process)



Holyhead Town Hall – 17th June 2019 – Holyhead Town Hall, Holyhead. LL65 1HN

In attendance at this event from the Morlais team was Simon Myers to provide further technical information as required in addition to the Menter Môn team.



(Simon Myers and Graham Morley explaining the SLVIA documentation)



(Gwenan Owen, explaining the SLVIA documentation)

30th July 2019 – Trearddur Bay Community Centre, Trearddur Bay, LL65 2YJ

The project also held a drop in session or mini-PID to provide further opportunity for individuals and organisations to learn about the project.



This was advertised via social media and invitations were sent to the below alongside a project information bulletin.

Organisation	Invitation sent alongside project information
Royal Yachting Association	✓
Traethcoch Sailing Club	✓

Anglesey and Gwynedd Fisheries Local Action Group	✓
Rhosneigr Sub Aqua Club	✓
Round Anglesey Race Organisers	✓
Royal Anglesey Yacht Club	✓
North Wales Wildlife Trust	✓
North Wales Cruising Club	✓
Holyhead Marina	✓
Holyhead Sailing Culb	✓
British Sub Aqua Club	✓
Wales Biodiversity Partnership	✓
Friends of the Earth	✓
Farmers Union of Wales	✓
Young Farmers Ynys Môn	✓
NFU Llangefni	✓
Greenpeace North Wales	✓
Pobl Yn Erbyn Wylfa B (PAWB)	✓
Isle of Anglesey County Council	✓
Holyhead Town Council	✓
Trearddur Bay Community Council	✓
Valley Community Council	✓
Llanfaelog Community Council	✓
Rhoscolyn Community Council	✓
Rhosyr Community Council	✓
Llanfaethlu Community Council	✓
Llanfachraeth Community Council	✓
Tref Alaw Community Council	✓
Bodedern Community Council	✓
Cylch y Garn Community Council	✓
Aberffraw Community Council	✓

Trearddur Bay Sailing Club	✓
Plas Menai	✓
Bangor Mussel Producers / Deep Dock	✓
The Lobster Pot	✓
Rib Ride	✓
Anglesey School of Yachting	✓
Anglesey Divers	✓
Sea Kayaking Wales	✓
Anglesey Sea Kayaking	✓
B-Active Rhoscolyn	✓
Anglesey Adventures / Steve Miles Sea Kayaking	✓
RSPB	✓
Marine Conservation Society	✓
Wildlife Trust Wales	✓
WEFO	✓
Welsh Government– Chief Regional Officer for North Wales	✓
Natural Resources Wales	✓
Bangor University – Dr. Edwards Thomas Jones	✓
SEACAMS – Colin Jago	✓
Planet Cymru – Dr. Einir Young	✓
Grwp Llandrillo Menai	✓
STEM y Gogledd	✓
NOVA Innovation	✓
Minesto	✓
CBI	✓
FSB	✓
Destination Anglesey Partnership Chair	✓
Anglesey Tourism Association	✓
STENA Line / Port Services Manager	✓

Festival of Discovery	✓
Alpine Coaches	✓
Always Aim High Events	✓
Anglesey Sea Zoo	✓
North Wales Tourism	✓
Councillor: Trefor Lloyd Hughes	✓
Councillor: Arwel Roberts	✓
Councillor: Dafydd Rhys Thomas	✓
Councillor: Glyn Haynes	✓
Councillor: Robert Ll Jones	✓
Councillor: Shaun Redmond	✓
Councillor: Richard A Dew	✓
Councillor: Gwilym O Jones	✓
Albert Owen MP	✓
Rhun ap Iorwerth AM	✓
Hywel Williams MP	✓
Sian Gwenllian AM	✓
Liz Saville Roberts MP	✓
Dafydd Ellis Thomas AM	✓
Guto Bebb MP	✓
Janet Finch Saunders AM	✓
Michelle Brown AM	✓
Llyr Huws Gruffydd AM	✓
Mark Isherwood AM	✓
Mandy Jones AM	✓
Mike Hedges	✓
Russell George AM	✓
Darren Miller AM	✓
Ann Jones AM	✓

Paul Davies AM	✓
PID 1 Attendees	✓
PID 2 Attendees	✓
Anglesey Show Attendees	✓
Ocean Science Career's Fair Attendees	✓
FAUN	✓
Mona Liffing	✓
PFS – Profab Services	✓
Anglesey Scaffolding	✓
AMS	✓

Blanket Email included the following:

Anglesey Charter Fishing	✓
Anglesey Watersport	✓
British Canoeing	✓
Cadw	✓
Chamber of Shipping	✓
Defence Infrastructure Organisation (DIO)	✓
Gwynedd Archaeological Planning Service	✓
Gwynedd Sub-Aqua Club	✓
Holyhead Sailing Club	✓
Isle of Anglesey County Council (IoACC)	✓
Marine Conservation Society	✓
Marine Management Organisation (MMO)	✓
Maritime and Coastguard Agency (MCA)	✓
Mon Mooring Services	✓
NATS Safeguarding	✓
North Wales Fishermen's Co-operative Limited	✓
North West Venturers Yacht Club	✓

Red Wharf Bay Sailing and Water Sports Club	✓
Royal Anglesey Yacht Club	✓
Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW)	✓
Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW)	✓
Royal National Lifeboat Institution (RNLI)	✓
Stena Line Ports Limited (operator of Holyhead Port Authority)	✓
The Crown Estate	✓
The Cruising Association	✓
Trearddur Bay Sailing Club	✓
Trinity House Lighthouse Service	✓
UK Hydrographic Office	✓
Welsh Fishermen's Association	✓
Welsh Government (WG)	✓
Whale and Dolphin Conservation	✓
North Wales Fishermen's Co-operative Limited	✓
Welsh Fishermen's Association	✓
Bangor Mussel Producers	✓
Ucheldre Centre	✓
Holyhead Empire Cinema	✓
Pontio Arts Centre	✓
Galeri Caernarfon	✓
Welsh Language Society	✓
Urdd Gobaith Cymru	✓
Eisteddfod Genedlaethol Cymru	✓
Holyhead Golf Club	✓
Summit to Sea	✓
Rib Ride	✓

Holyhead Marina	✓
Red Wharf Bay Sailing and Water Sports Club	✓
Royal Anglesey Yacht Club	✓
Trearddur Bay Lifeboat Station	✓
Holyhead Lifeboat Station	✓
Trearddur Bay Sailing Club	✓
Trinity House Lighthouse Service	✓
Gwynedd Sub-Aqua Club	✓
Cybi Striders	✓
Holyhead Cycling Club	✓
Disability Sport Wales	✓
Welsh Sports Association	✓
Welsh Surfing Federation	✓
Canoe Wales	✓
Welsh Sailing	✓
Sport Wales	✓

Photos from the Event

All the information boards were available to inspect, in addition to the visualisation documents produced by SLR Consulting. Again the Menter Môn team was available to answer any questions.



(Andy Billcliff highlighting the location of the zone)



Neuadd y Dref, Llangefni, LL77 7LR

The information boards were also made available to the public at the town hall in Llangefni from the 22nd July 2020 to the 8th August 2020.



Datblygu ynni llif llanw ym Môn

morlais Developing tidal stream energy on Anglesey
ANGLESEY MARINE ENERGY - YNNI MŌR MŌN

Bydd deunyddiau gwybodaeth prosiect Morlais yn cael eu harddangos yn ein swyddfeydd yn **Llangefni** rhwng **24/07/2019** a **09/08/2019**.

Mae angen gwneud apwyntiad i ddod i weld yr arddangosfa ac i ddod i siarad gydag aelod o'r tîm.

I drefnu apwyntiad, cysylltwch a ni ar 01248 722752 a gofyn am Gwenan Owen neu e-bostiwch Gwenan@mentermon.com

www.morlaisenergy.com
01248 725 722
info@morlaisenergy.com

Information materials on the Morlais project will be available to view at our offices in **Llangefni** between **24/07/2019** and **09/08/2019**.

You must make an appointment to come and see the information panels and speak to a member of our team.

To arrange an appointment please call us on 01248 722752 and ask for Gwenan Owen or email Gwenan@mentermon.com

www.morlaisenergy.com
01248 725 722
info@morlaisenergy.com

Ariennir yn rhannol gan / Part funded by



This was advertised within the project bulletin that was sent with the invites for the Trearddur Bay Community Centre drop-in session / mini-PID and also on social media.



gwerth mewn gwahaniaeth
delivering on distinction

Morlais Demonstration Zone

Appendix 3 – Kay McManus PID comment sheet

Document Title: Response to questions raised in the public speaking sessions regarding public consultation

Morlais Document No. MOR-MM-DOC-0018
File No.: MMC571

Status:
FINAL

Version No:
F1

Date:
08/12/2020



Comment Form

Your comments on Morlais (the Project) are important to us and any comments you make will be considered as Menter Môn prepares its consent application for the Project. Please leave any comments and feedback on the Project itself and / or this event in the box below.

[Your comments will be analysed by Morlais and will be used to inform the consultation process. Copies of your comments may be made available, in due course, to statutory authorities so that your comments can be noted. We will however, request that your personal details are not placed on the public record.]

I am pleased to hear that the project is to be carried out in phases with continued assessment of the environmental impact.

I am very disturbed by the visual impact of the floating devices this should be avoided.

What will be the impact on leisure activities such as kayaking as this area is world class for this?

OPTIONAL

Name	Kay McManus	Email Address	KayMcManusx@gmail.com
------	-------------	---------------	-----------------------

I would like to be added to the Morlais Mailing List to receive further updates:

Signed: Kay McManus Date: 11/6/19

We are processing this information based on your consent and will add your contact details to our mailing list and contact data base. The personal contact information you provide will not be shared with any other organisations. We will not use your information for automated decision making or profiling. We will not transfer your personal information to another country. In accordance with the General Data Protection Regulation, 2018, we will securely keep an electronic version of this form and your details in our mailing list and contact data base until you ask us to remove it. Otherwise we will keep them until the end of the project retention period. You can ask to be removed from the mailing list at any time.



gwerth mewn gwahaniaeth
delivering on distinction

Morlais Demonstration Zone

Appendix 4 – Early stage consultation request and responses

Document Title: Response to questions raised in the public speaking sessions regarding public consultation

Morlais Document No. MOR-MM-DOC-0018
File No.: MMC571

Status:
FINAL

Version No:
F1

Date:
08/12/2020



Initial Consultation on Proposals for Community Tidal Energy around Anglesey

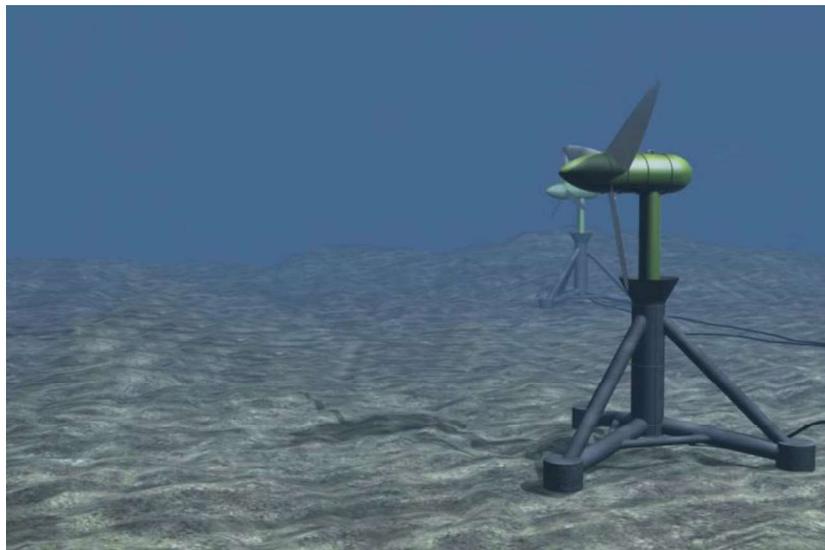
This document outlines a proposal for a community tidal energy project located around Anglesey. It is also a request for initial feedback on a number of different prospective locations for this tidal energy project.

23rd July 2013

Introduction

Tidal power is the production of electricity from the natural flow of the tides. It is clean and predictable renewable energy. It will play an essential part in meeting carbon emission reduction targets. The turbines work like an underwater wind turbine with blades rotating slowly and extracting kinetic energy from the water. This is converted to electrical energy and transmitted to shore via a subsea cable.

An opportunity has arisen for a community project around Anglesey to utilise the natural potential of the sea to generate low carbon electricity. The predictable nature of the tides means that this development could also provide a source of income to assist with other local community projects.



The project

A feasibility study is being undertaken to identify and characterise potential sites for community tidal around Anglesey. This is being led by Menter Môn, funded by Ynni'r Fro and undertaken by Swanturbines.

The project is at a very early stage of development and no decisions have yet been made on the location for the tidal turbines. A number of potential locations have been identified and this feasibility study aims to characterise these sites in terms of environmental and human stakeholders as well as the tidal energy potential.

Project team



The project lead is Menter Môn, which is a social enterprise established in 1995 to deliver EU rural development programmes. It is a third sector company, limited by guarantee, with a board of directors made up of the private, voluntary and community sector.

Its primary aim is to facilitate rural economic regeneration on Ynys Môn. Menter Môn is eager to become a renewable energy operator and is active in seeking viable deployments in the solar PV and tidal scenarios.

Menter Môn has received development officer support for the project through the Ynni'r Fro programme, and is applying for financial support towards development costs.

The Ynni'r Fro programme is a European and Welsh Government funded scheme to promote sustainable social enterprises in Wales through the revenue generated by renewable energies such as wind. The Ynni'r Fro scheme is managed by the Energy Saving Trust and is delivered locally by Severn Wye Energy Agency, Ecodyfi and Awel Aman Tawe. The scheme offers the three streams of support including Technical Development Officer assistance, Preparatory Grants and Capital finance.



Swanturbines is acting as consultant to Menter Môn to undertake the feasibility study.

Swanturbines Ltd develops tidal stream sites, projects and turbines for the emerging marine renewable energy market. Having recently carried out site development activities for clients including a large UK PLC, the team has led one of the worlds first commercial tidal stream site developments on the east coast of Scotland.

In addition, Swanturbines is a leading developer of tidal turbine technology and is currently manufacturing a 350kW turbine which is designed to be installed at the European Marine Energy Centre in Orkney. The company has been developing tidal power technology over the last ten years and has four pending patents in key technology areas.

Initial consultation outline

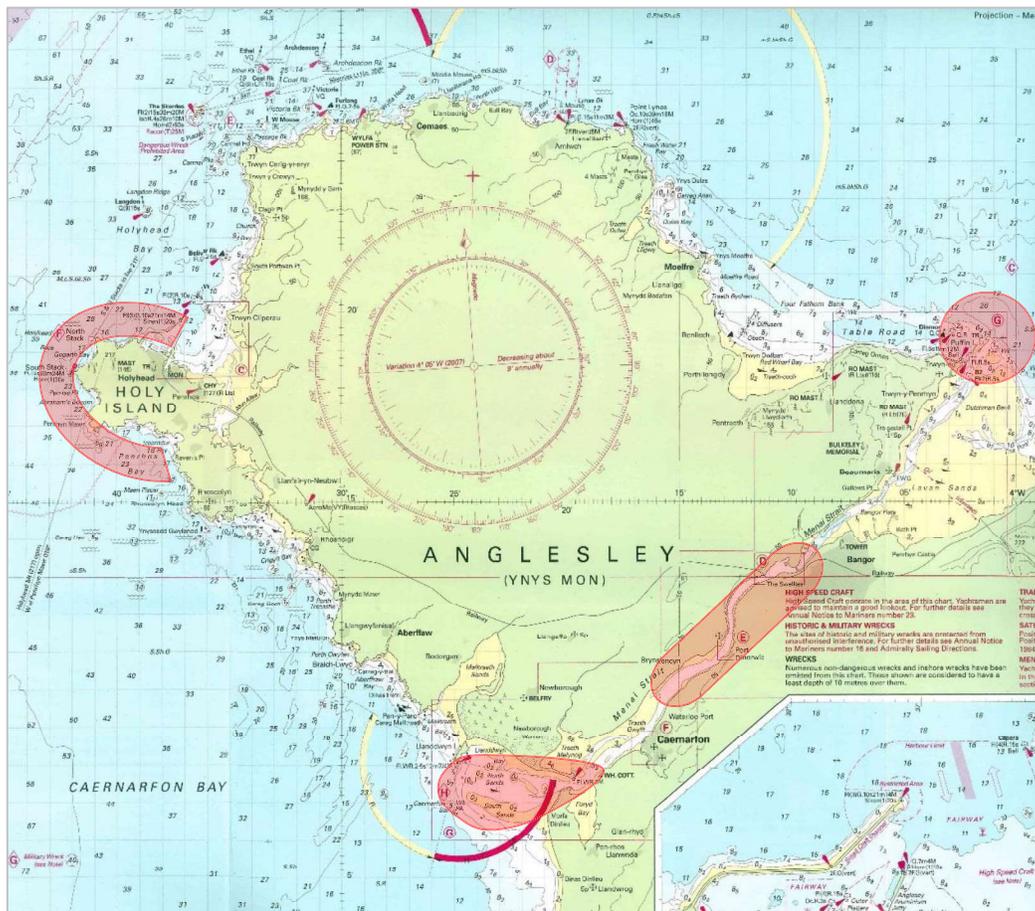
This document has been sent to stakeholders to ask for assistance in determining the appropriate location for a future project. Four regions around Anglesey are presented as areas of interest as it is expected that there will be suitable tidal flows and depth in these locations.

We are interested to understand the sensitivities associated with each location in terms of human and biological factors to inform our future decisions on project location. In addition we are interested in both the opinions of stakeholder organisations and individuals with a knowledge of the various sites.

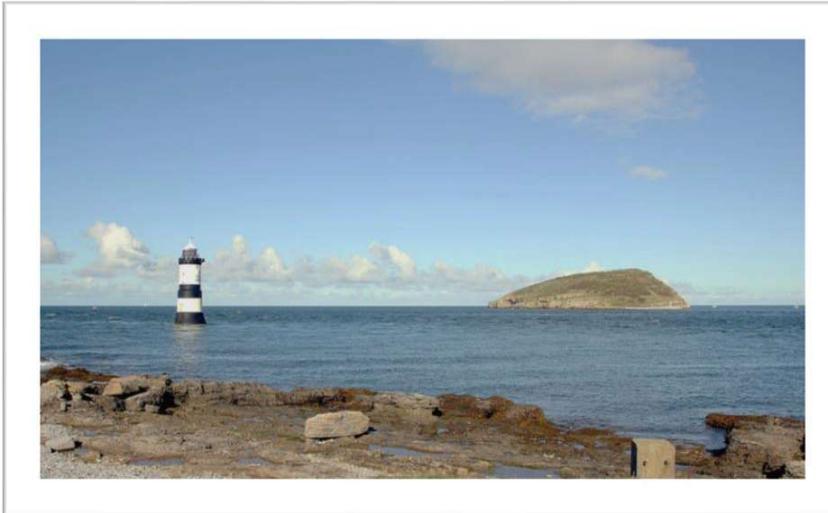
Specific questions for the consultation are listed at the end of the document

Prospective locations

Four red areas are identified on the map below as having the potential for tidal turbine deployment. The following pages focus on each area in more detail.



Puffin Island



Site description

The waters around Puffin Island offer two possible locations for a tidal array. To the south west, the channel runs between the island and Anglesey. To the north east, the flow runs around the promontory. It is expected that tidal flows run up to about 4kts in this region.

Depths in these areas can be quite varied between 10 and 30m. The seabed is expected to be sands and mud from the Dutchman Bank area.

Environmental designations include Puffin Island SSSI and the Liverpool Bay SPA, The Menai Strait and Conwy Bay SAC and the Isle of Anglesey AONB.

Holy Island



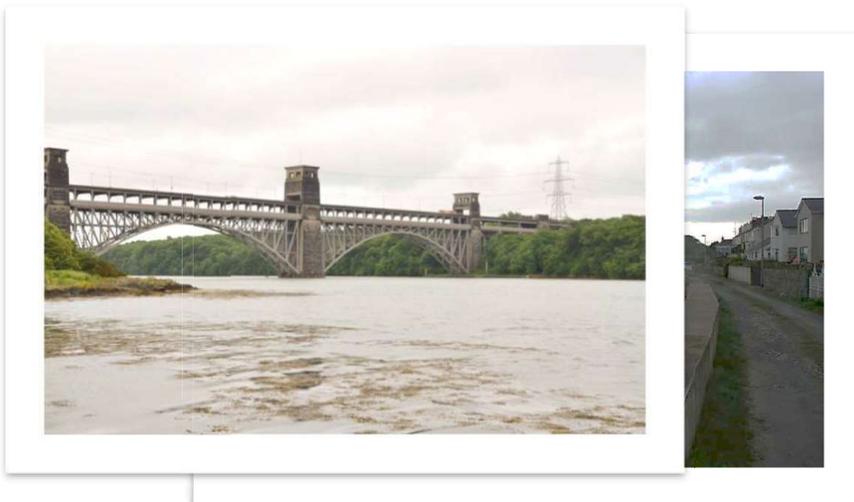
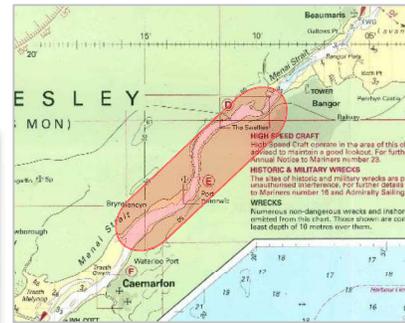
Site description

On all seaward sides of Holy Island, there are potential areas of interest for tidal stream energy deployment. The nature of the island as a promontory on the north west side of Anglesey means that it is expected that suitable tides may be found of up to 6+ kts.

Flows are expected to be fastest at a distance of 50-100m away from the coast and turbulent closer in owing to the surface and sub-surface rock formations.

The waters themselves are not subject to environmental designations however the coastline and hence likely cabling routes are highly protected. This includes Holy Island SPA, SAC and SSSI and the Anglesey AONB. The area is also a Heritage Coast

Menai Strait



Site description

The Menai Strait is characterised by strong tidal flows of up to 8kts in places. It is sheltered from wave action owing to its inshore location and features a number of different hydrodynamic regimes.

To the east, the two bridges mark natural constrictions in the channel which accelerate the flow. Between them, The Swellies mark an area of shallow and highly turbulent rapids. Further west the channel widens out to Waterloo Port and Caernarfon with calmer waters and lower flow speeds. The depth varies considerably over the length but maintains a channel of around 10m for the majority of the route.

Environmental designations include Glannau Porthaethwy SSSI and The Menai Strait and Conwy Bay SAC.

Newborough



Site description

Lying to the south west end of the Menai Strait, the waters off Newborough and Fort Belan are accelerated by the local constriction. The flows run in and out of the strait and then north south up towards Holy Island. In this region flows of up to 5kts are expected around the promontories.

Areas of localised sand banks give way to deeper water to the west of 10m+ reaching 20-30m deep in places.

The waters are not subject to environmental designations although they are immediately adjacent to the Menai Strait SAC. In addition, the surrounding land is subject to the Anglesey Coast Salt Marsh SAC, Newborough Warren Nation Nature Reserve and SSSI, Anglesey AONB, Morfa Dinlle SSSI and the Y Twyni o Abermenai i Aberffraw/ Abermenai to Aberffraw Dunes SAC.

Summary and request for feedback

This document outlines four regions which may be suitable for the deployment of tidal energy generation systems around Anglesey.

We are undertaking an informal consultation on these regions to highlight issues regarding environmental and human sensitivities prior to making a decision on the most appropriate location for any future project.

Each of the regions may contain areas which are more or less sensitive to different receptors. We would very much appreciate the stakeholders giving us feedback on each of these regions and any specific areas within them that are more or less sensitive. In addition we are interested in both the opinions of stakeholder organisations and individuals with a knowledge of the various sites.

Please respond to the questions below and also include any further information which you feel is relevant.

- 1) What is your name?
- 2) What organisation do you represent?
- 3) What are the environmental sensitivities associated with each of the four proposed regions?
- 4) Are there any environmental designations associated with any of the regions which are not mentioned in this document?
- 5) Please indicate how you think tidal turbines might affect the environmental receptors at the site.
- 6) What are the human activities in each of the regions which could be sensitive to the deployment of tidal energy systems?
- 7) Please indicate how you think tidal turbines might affect the human activities undertaken at the site?
- 8) Please indicate how suitable each of the regions would be for tidal energy from your perspective.
- 9) Do you think the deployment of tidal turbines could have a positive impact? If so, how?
- 10) Which region, if any, do you think is the most suitable location for tidal energy?

Please email your response as soon as possible, but at the latest by 7th August 2013 to:

hannah.buckland@swanturbines.co.uk

7.2 List of Consultees

List of Consultees

	Response & Ref		Response & Ref
Navigation and shipping		Fishing	
Maritime and Coastguard Agency (MCA)	Y 15	Welsh Federation of Fishermen's Associations	Y 4
RNLI	N	Welsh Federation of Sea Anglers	N
RYA	Y 9	North Wales Fishermen's Coop	Y 23
The Welsh Yachting Association	Y 20	Colwyn Bay Victoria Sea Angling Club	N
RNLI Beaumaris Lifeboat Station	N		
RNLI Holyhead Lifeboat Station	N	Potential energy users	
RNLI Moelfre Lifeboat Station	N		
RNLI Trearddur Bay Station	N	Fort Belan	N
Victoria Dock/Caernarfon Harbour Trust	Y 2	Bangor University	N
Port of Holyhead (Stena Line)	N	Galeri	N
Port Penrhyn	N	Menter Môn	N
Port Dinorwic	Y 19	Energy Island	Y 13
Environmental		Recreational	
Natural Resources Wales	Y 0	Sea Kayaking UK / RNLI	Y 18
Council for British Archaeology Wales	Y 21	North West Venturers Yacht Club	Y 14
Environment Agency	N	Holyhead Sailing Club	Y 1
Joint Nature Conservation Committee	N	Menai Straits - Liverpool Yacht Club Moorings	N
RSPB	Y 8	Royal Welsh Yacht Club	N
Sea Watch Foundation	Y 12	Caernarfon Sailing Club	N
WDC, Whale and Dolphin Conservation	Y 10	Menai straits regattas	N
Gwynedd Archaeological trust	N	Wilco Sea School	N
Clywd, Conwy and Gwynedd Rivers Trust	Y 17	Menai Bridge Boat Club	N
North wales wildlife trust	Y 5	Royal Anglesey Yacht club	N
University of Liverpool	Y 6	Trearddur Bay Sailing Club	Y 11
		Traeth Coch Sailing Club	Y 16
Planning			
The Crown Estate	N		
Ministry of Defence	N		
Receiver of Wreck	N		
Welsh Assembly Government	Y 7		
Isle of Anglesey Council	Y 3		
Anglesey MP	N		
Jones Peckover (Local CE Surveyors)	Y 22		
Economic Development Unit	Y 3		

Table 20 – List of consultees



4.1 Response 1 Holyhead Sailing Club

Holyhead Sailing Club

Newry Beach

Holyhead

Anglesey

LL65 1YD

7th August 2013

To Hannah Buckland

Swan Turbines

Dear Hannah,

Thank you for the opportunity to respond to your Anglesey Community Tidal Energy Initial Consultation. I will respond to the ten questions you pose in the feedback request.

My name is Paul Bond; I am a member of the management team at Holyhead Sailing Club, Newry Beach, Holyhead. (HSC). Email: [holyheadsailingclub@btconnect.com].

My response is on behalf of HSC, which is a long established RYA affiliated Sailing Club covering a wide range of sailing and power craft interests from youth training through Dinghy and keelboat racing, to offshore yacht cruising and racing. Within the club, there is a significant amount of knowledge and experience of Anglesey and adjoining waters.

I will not address the environmental aspects of your proposals as I am sure you will receive significant expert opinions in the consultation, however, I will concentrate on the 'human activities' in each of the regions and the effect of your present proposals.

The Human Activities, are the use of the areas for the navigation of pleasure vessels, both sailing and power craft; and the effect on the safety of these activities following the installation of Sub Sea Generators.

Your consultation does not indicate the size or number of generators proposed, however, due to the limited depths of water in the areas considered, it is assumed that they will form a hazard to surface navigation at least in their immediate vicinity. The following comments are based on this premise.

Area 1 – Puffin Island

Puffin Sound to the Southwest of the Island is the main deep water entrance to the Menai Strait. The Navigational Channel between Penmon Lighthouse and the Perch Rock is heavily used by pleasure craft and commercial vessels. Due to the Tidal constraints and weather conditions, manoeuvrability in the entrance is often limited and any restrictions to navigation in this area would have a significant impact on the safety of vessels in this entrance.

There are also two anchorage areas used by yachts awaiting favourable tidal conditions to either leave or enter the Straits, in the vicinity of the Sound.

To the North east of puffin, there is less traffic; mainly vessels transiting to Conway and fishing/ angling parties.

Area2 – Holy Island

The proposed area between Holyhead Harbour Breakwater and Penrhos Bay corresponds almost exactly with the route taken by pleasure craft and other small vessels, rounding the western end of Anglesey. This applies to local passage making and to vessels transiting St Georges Channel and the Irish Sea.

In practice, there is little 'slack water' around Anglesey. Vessels time their approach to take advantage of a favourable tide. At these times, a dangerous tidal race extends up to 1.5miles from South Stack; whilst inside this tidal race, close to the lighthouse there is safe water. Owing to the rate of tidal streams and counter currents in the area close to the coast, any obstructions would cause danger and increased collision risk.

The alternative of passing to the North of the tidal race brings craft into conflict with the frequent high speed Ferry traffic between Holyhead and Dublin.

The South of this area from Penrhyn Mawr to Ravens Point is additionally a popular sailing area based at Trearddur Bay for Dinghies, fishing and kayaks.

Area 3 - Menai Strait

Much of this area already provides Navigational challenges for all craft. Depths suitable for safe navigation occur in narrow channels with significant tidal constraints. Any obstruction would exacerbate the current dangers and further restrict access.

Area 4 – Newborough

This area of the Southwest approach to the Menai Strait is mainly an area of drying sandbanks or less than 2metres at chart datum. The only area of any depth within the proposal is the approach from Mussel Bank to Aber Menai Point. This entrance to the Straits at this point is narrow and any obstruction would be a danger to navigation. There appears to be no area in excess of 10metres in the western part of the proposals as identified in your consultation.

In summary, the proposals correspond to areas generally acknowledged to be 'Tidal Gates' in Navigational Terms. Sailing vessels (dependent on size) make between 4 and 7 knots under sail or engine, this corresponds to the tidal rates found around the island. In the areas of interest, obstructions to navigation would produce significant collision risks.

It is accepted that the deployment of Tidal Turbines would have a positive effect on electricity generation; however, unless sited away from areas currently used for leisure activities, they will have a significantly negative effect on tourism and the island's economy.

Turbines need to be sited away from areas of commercial fishing and recreational use. As such, in its present form, none of the areas considered are suitable for the deployment of tidal turbines.

Holyhead Sailing Club would be pleased to have an involvement in any future proposals and provide advice, based on the considerable knowledge of its membership.

Yours sincerely,

Paul Bond

Email c.bond951@btinternet.com

On Behalf of Holyhead Sailing Club



4.2 Response 2 Caernarfon Harbour Trust

Y MDDIRIEDOLAETH HARBWR CAERNARFON

CAERNARFON HARBOUR TRUST

Ioan Thomas	-	Cadeirydd	/	Chairman
Richard J. Jones	-	Harbwr Feistr	/	Harbour Master
John McDermott	-	Gweinyddwr	/	Administrator
Mark Shackleton	-	Doc Feistr	/	Dock Master



Sef. / Est. 1793

SWYDDFA HARBWR / HARBOUR OFFICE, CEI LLECHI / SLATE QUAY, CAERNARFON, GWYNEDD. LL55 2PB
Ffôn / Tel:(01286) 672 118 Ffacs / Fax:(01286) 678 729 E-bost / Email: cht@caernarfon-hbr.demon.co.uk www.caernarfonharbour.co.uk

Hannah Buckland
Swanturbines Ltd
152 Morrison Street
Edinburgh
EH3 8EB

20th August 2013

Dear Hannah,

Re: Consultation on community tidal energy, Anglesey

Thank you for your email dated 24th July 2013 regarding the above, together with the document titled 'Initial Consultation on Proposals for Community Tidal Energy around Anglesey' dated 23rd July 2013. We welcome the opportunity to comment on this initial consultation.

The Caernarfon Harbour Trust (CHT) is the Statutory Harbour Authority for the Port of Caernarfon, which encompasses the area of water from Caernarfon Bay to the Menai Suspension Bridge (the attached copy of the latest Harbour Revision Order defines the area of jurisdiction more precisely). The Trust is also the Local Lighthouse Authority (LLA) for the same area with responsibility for the provision of a total of 53 Aids to Navigation (AtoN), which includes a lighthouse, navigation lights, navigation buoys and beacons. As a Harbour Authority the Trust has responsibility for the control of navigation and has a duty to take reasonable care that all those who choose to navigate within the area of jurisdiction may do so without danger to their lives or property.

Under the provisions of The Caernarfon (Pilotage) Harbour Revision Order 1988 the Trust is also the Competent Harbour Authority responsible for the provision of pilotage services throughout the Menai Strait. For information, I attach a copy of the Pilotage Directions and Regulations for the Menai Strait Pilotage District, which includes a description of the limits of jurisdiction for the purposes of pilotage.

Our initial comments are listed below, although it should be noted that this matter has not been formally discussed at a meeting of the Board of Trustees as yet and therefore these should be taken as preliminary comments rather than representing the final position of the Trust. This is also a relatively new technology and information on impacts is fairly limited at present.

Response to consultation questions:-

- 3) What are the environmental sensitivities associated with each of the four proposed regions?**
- 4) Are there any environmental designations associated with any of the regions which are not mentioned in this document?**
- 5) Please indicate how you think tidal turbines might affect the environmental receptors at the site.**

The consultation document appears to include the various environmental designations within the relevant areas. For specific advice on environmental sensitivities and how tidal turbines might affect environmental receptors you will need to consult directly with Natural Resources Wales.

6) What are the human activities in each of the regions which could be sensitive to the deployment of tidal energy systems?

7) Please indicate how you think tidal turbines might affect the human activities undertaken at the site?

As you will be aware, the Menai Strait is home to a variety of waterborne activities, which include:-

- Commercial and recreational fishing – including shellfish cultivation (see attached Appendix A for a plan of shellfish cultivation areas, as provided previously by the North Western & North Wales Sea Fisheries Committee – which by now comes under the Inshore Fisheries Unit, Welsh Government);
- Recreational boating – including sailing, cruising and power boating;
- Recreational watersports – including dinghy sailing, canoeing, personal watercraft ('jet skis'), rafting, rowing, sea kayaking, sub-aqua diving, swimming, water skiing and windsurfing.

Commercial and recreational fishing, recreational boating and other watersports are an important element of people's lives along the Menai Strait, providing social and health benefits and sustaining a significant number of marine businesses. They also attract many tourists into the local area. The economies of Anglesey and Gwynedd are very much dependent on coastal sector activities, which include marina and port activity, marine trades, coastal tourism, recreational watersports and fishing. The Welsh Assembly Government's Coastal Tourism Strategy states "The Welsh Coast is vital to the tourism industry in Wales. Spending associated with a visit to the coast amounts to around £850 million a year - a quarter of total tourism spending in Wales". One of the key aims of the strategy is "To ensure that sustainable tourism is making an increasing contribution to the local economy of coastal communities".

Most commercial shipping passing through the relevant areas of the Strait is bound for Port Penrhyn in Bangor, which is privately owned. The port is in the process of developing its commercial operations because of an expected growth in coastal shipping in the future (as a more sustainable means of transportation). Port Penrhyn is extremely optimistic for the future. On average the port currently receives around 30 to 40 ships per annum (equating to a total of around 60 to 80 ship movements per annum). The size of vessels is normally in the region of 1,300 to 2,500 Gross Tonnes and includes an aggregate dredger that delivers sand to Port Penrhyn; and occasional cargoes of slate shipped from Port Penrhyn (Welsh Slate). Pilotage is compulsory for any vessels over 1,500 GT; any vessels carrying hazardous cargo and passenger vessels over 20 metres in length. The majority of ships visiting Port Penrhyn currently take a pilot onboard (including some vessels that are below the compulsory tonnage limit). The passenger ship Balmoral also visits the area every year, calling at Menai Bridge and Caernarfon and bringing many tourists into the local area. The maximum draft of vessels visiting the Strait is normally in the region of 4 to 5 metres, although the largest vessel ever to have entered had a draft of 6.7 metres.

Given the above, it is vital that the deployment of tidal energy systems do not adversely impact on the ability of these waters to support the activities as listed. As the Authority responsible for navigation in the western part of the Strait (and for Pilotage throughout the Strait) the Trust is primarily concerned with issues affecting navigation (both from a safety and public right of navigation perspective) i.e. issues of obstruction or endangerment. As such we have the following preliminary comments:

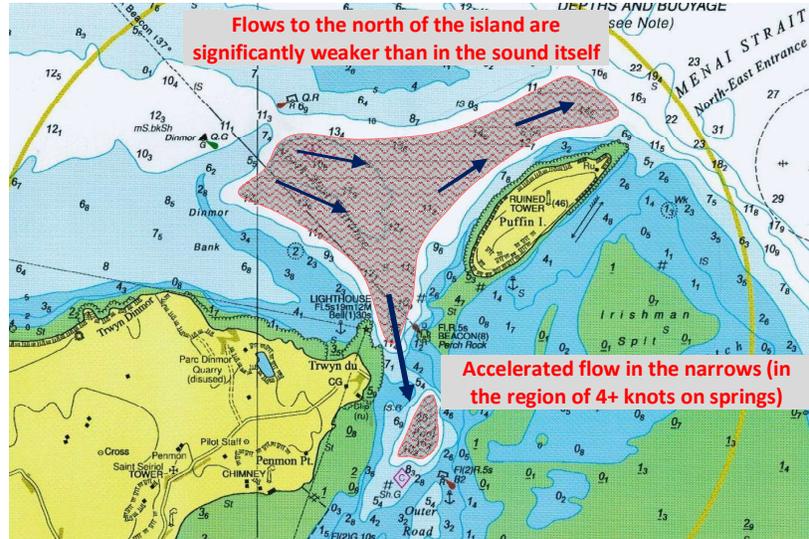
- Due to the narrow width of the channel and the level of activity on the water within the Strait we consider that risks to navigational safety can be minimised by specifying submerged turbines (mounted on the seabed) that have sufficient clearance over them at all times so that they do not interfere with surface navigation (the use of such turbines is implied by the introduction and image on page 1 of the consultation document, but not directly referred to). The clearance required would depend on the location of the turbines and the nature of the channel depths in the vicinity. As an initial guide we would envisage that a minimum underwater clearance of 4 metres below chart datum would give an appropriate safety margin. Submerged turbines are also preferred as they would have no visual impact.
- The location of the turbines would have to be clearly marked on all the appropriate nautical charts.

8) Please indicate how suitable each of the regions would be for tidal energy from your perspective.

Areas with sufficient depth within the Menai Strait are fairly limited. Those areas with potentially sufficient depth are shaded red below (note - these are for indication only and the extent of the areas would depend on the actual size of turbines and safe clearance required in each particular area). Flow direction is shown for the flood tide and the width of the arrows gives an indication of peak rate of flow during spring tides:

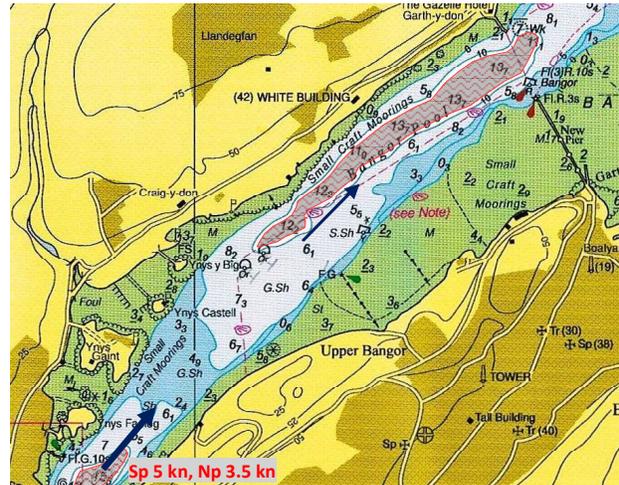


- Puffin Island** – the tidal stream is accelerated in the narrows between Puffin Island and Trwyn Du (known as Puffin Sound) providing increased flow rates. However, the extent of the area with increased flow is fairly limited and the depths available would limit the location and number of turbines that could be installed. There is a deep pool to the south of Puffin Sound, but the seabed is very irregular in the vicinity and as a result **the flow may be quite turbulent.**

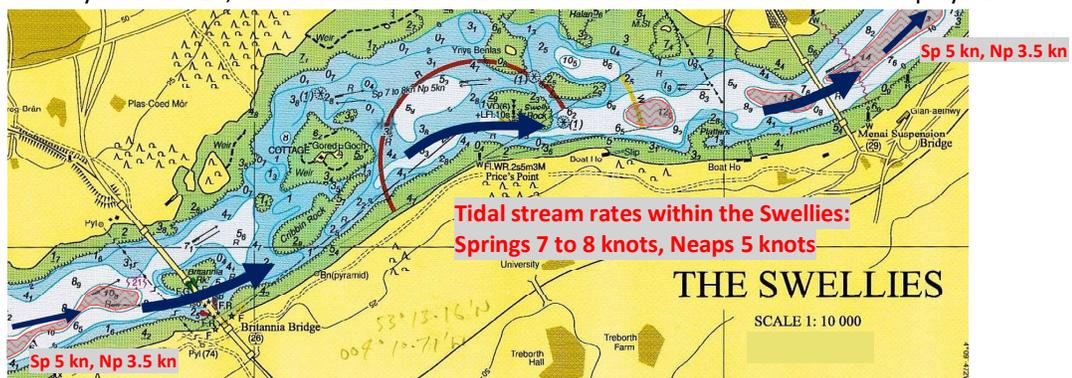


- Holy Island** – this area is not within the Trust’s area of jurisdiction and therefore we have no comments.
- Menai Strait** – The Menai Strait is split up into various sections for the purpose of discussion below:

Menai Bridge to Bangor Pier: The main area with potentially sufficient depth is Bangor Pool. However, much of this area is populated with small craft moorings. There are also mussel cultivation areas in the vicinity, although not directly within the deepest area. The flow in the Bangor Pool area is also not as strong as elsewhere in the Strait. There is a potential area off St. George’s Pier, which almost links up with the area shown below to the north-east of the Suspension Bridge.



The Swellies: The tidal stream rate within the Strait is greatest in the area between the bridges known as the Swellies (although there are high levels of turbulence in this area due to the rate of flow and the narrow width of the channel). There are some areas where there may be sufficient depth – one to the west of the Britannia Bridge, two areas within the Swellies, and one to the north-east of the Suspension Bridge. However, all these areas are relatively small in size, which would limit the number of tidal turbines that could be deployed.

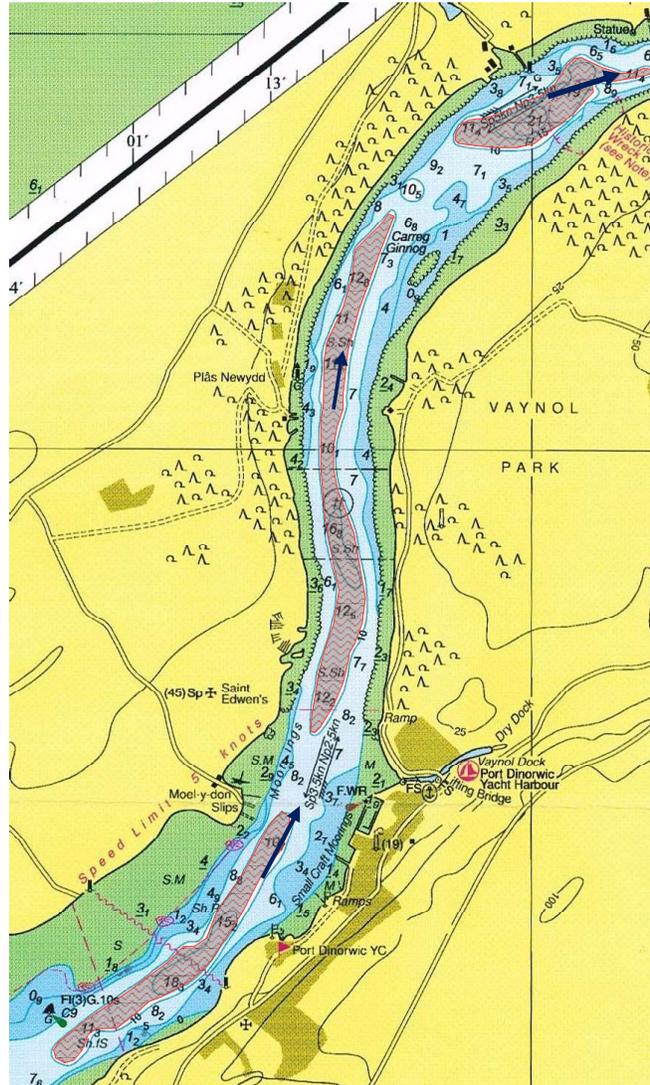


Felinheli to Pwllfanogll:

There is an area with potentially sufficient depth from the vicinity of the C9 starboard hand buoy up to a point about 1 cable SE of Moel-y-Don. The tidal stream rate is up to 3.5 knots on spring tides.

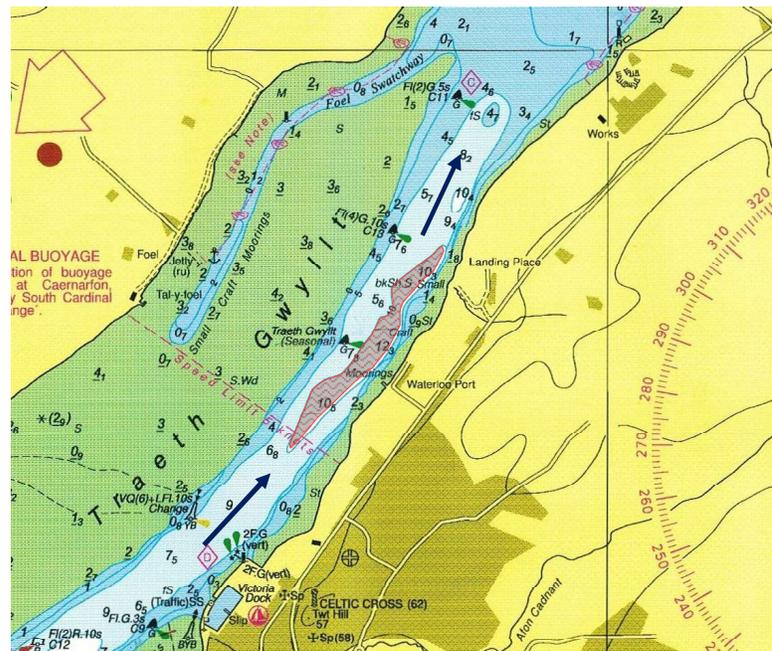
There is an area with potentially sufficient depth commencing about 2 cables north-east of Moel-y-Don and extending to about 0.5 NM NNE of Plas Newydd (note – the flow tends to be weaker in the vicinity of Plas Newydd, with a maximum spring rate of around 2 to 2.5 knots on the flood tide and 2.5 to 3 knots on the ebb tide). There is foul ground in the vicinity of position 53 11'.87N 04 12'.75W.

There is an area with potentially sufficient depth commencing just over 2 cables south-west of the Indefatigable jetty and extending to a point about 0.5 cables west of the Britannia Bridge (linking to the area shown to the west of the Swellies above). The tidal stream rate is stronger in this area, with up to 5 knots on spring tides closer to the bridge. There is a historic wreck in this vicinity, Protected Area 150m radius, centre 53 12'.77N 04 11'.72W.



Off Waterloo Port:

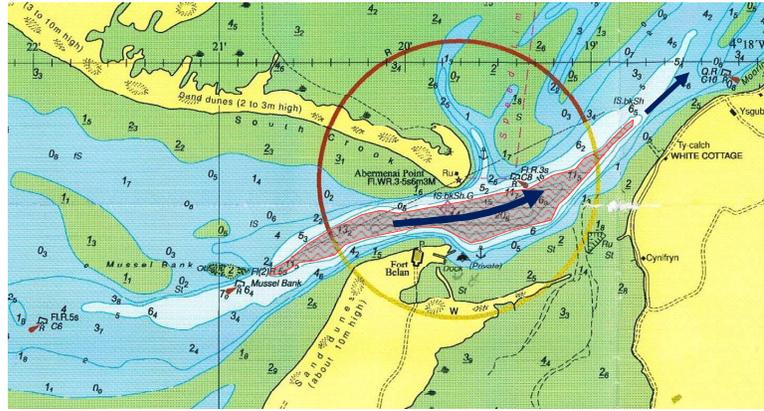
There is a small area with potentially sufficient depth off Waterloo Port, to the north-east of Caernarfon. The tidal stream in this area can achieve a rate of up to 3.5 to 4 knots on spring tides.



- **Newborough:**

Much of the area shaded red in the consultation document is unsuitable for the deployment of tidal turbines. The Caernarfon Bar area (to the south and south-east of Llanddwyn Island) is unsuitable for a number of reasons:

- This area is very exposed with shoaling depths and breaking seas;
- During the winter months the sands on the Caernarfon Bar can shift considerably, which would require constant re-positioning of turbines;
- The area is shallow with insufficient depth for deployment of submerged turbines;
- The tidal stream rate is relatively weak in this area.



There is an area with potentially sufficient depth commencing from a point about 1 cable east of the Mussel Bank buoy and extending to a point about 1.5 cables NNW of Ty Calch (WHITE COTTAGE). There is a spring rate of around 5 to 6 knots in the narrows between Abermenai Point and Fort Belan (known as the Belan narrows), with the rate reducing somewhat either side of the narrows.

Apart from the turbulence in areas of greatest flow; one other consideration for deployment in the Menai Strait is the relatively high concentration of sediment in suspension, which is particularly notable during spring tides (this is mainly sand for much of the Strait, but also shale in the vicinity of the Swellies). The potential effects of this include:

- Potential for the build-up of sediment around the base of the tidal turbines. This could be minimised by locating the units in areas where there is sufficient tidal scour to prevent such a build-up (which would tend to coincide with areas of strong tidal flow anyhow);
- Potential for accelerated wear of components due to the abrasive nature of sand (we experience this with mooring chains in the Strait).

Note – the Trust leases the seabed below Mean Low Water from The Crown Estate for that area of the Menai Strait that lies between a western limit defined by a line between Abermenai Point and Fort Belan and an eastern limit at the Britannia Bridge. The lease does not cover the deployment of tidal turbines and therefore there would have to be consultation with The Crown Estate as well as the Trust.

9) Do you think the deployment of tidal turbines could have a positive impact? If so, how?

The CHT fully supports the UK Government’s and devolved administrations’ targets for delivering 15% of the UK’s energy consumption from renewable sources by 2020 and for reducing greenhouse gas emissions by at least 34% by 2020 and 80% by 2050. The deployment of tidal turbines could have a positive impact due to a corresponding reduction in carbon emissions when compared to energy production from non-renewable sources such as fossil fuels. There are also some benefits to the marine environment through a corresponding reduction in ocean acidification (which is caused primarily by the uptake of anthropogenic carbon dioxide) and a reduction in the risk of catastrophic spills associated with fossil fuel extraction and transportation. Tidal power also has the potential to contribute towards energy security in the UK as it is a predictable and reliable source of energy that does not suffer from intermittency problems in the same way as wind power.

There is also the potential to bring economic benefits and employment opportunities to the area.

It goes without saying that the benefits have to be weighed up against any negative impacts on the marine environment.

10) Which region, if any, do you think is the most suitable location for tidal energy?

The most suitable area is probably off Holy Island (South Stack) in terms of the tidal flow, extent of the area available for deployment and from an environmental perspective.

However, there may also be an opportunity for some tidal energy generation within the Menai Strait, provided it can be shown that the installation of turbines would not adversely affect the following:

- Navigational safety;
- The interests of recreational and commercial users of the waterway;
- The conservation objectives for the various environmental designations within the area;
- Marine life, including marine mammals and fish (including migratory fish).

Kinetic power varies with the cube of velocity, and from this perspective fast flows are obviously desirable for economic tidal power generation. Whilst the greatest flow within the Strait occurs in the Swellies, this area may not be the most suitable for tidal power generation due to the small size of the areas with sufficient depth and the high degree of turbulence (depending on the specific characteristics of the turbines, highly turbulent conditions can result in a decrease in power generation and reduced life expectancy of components due to increased fatigue). The Belan narrows is probably the most suitable area within the Menai Strait due to a combination of suitable depths / flow rates and a reasonably sized area for deployment of turbines (in the region of 30 hectares / 0.3 km²).

Obviously the suitability of each area will also depend on the availability of a grid connection in the vicinity.

These are preliminary comments based on the information provided in the initial consultation document. If the project is to progress further, the Trust should be consulted further and would require more information on the following:

- Proposed location(s) and the number of turbines to be deployed;
- Type and dimensions of proposed turbines – particularly overall height from the seabed;
- Proposed means of anchoring the turbines to the seabed;
- Proposed means of deployment / recovery of the turbines;
- Proposed cabling routes for connection to the grid.

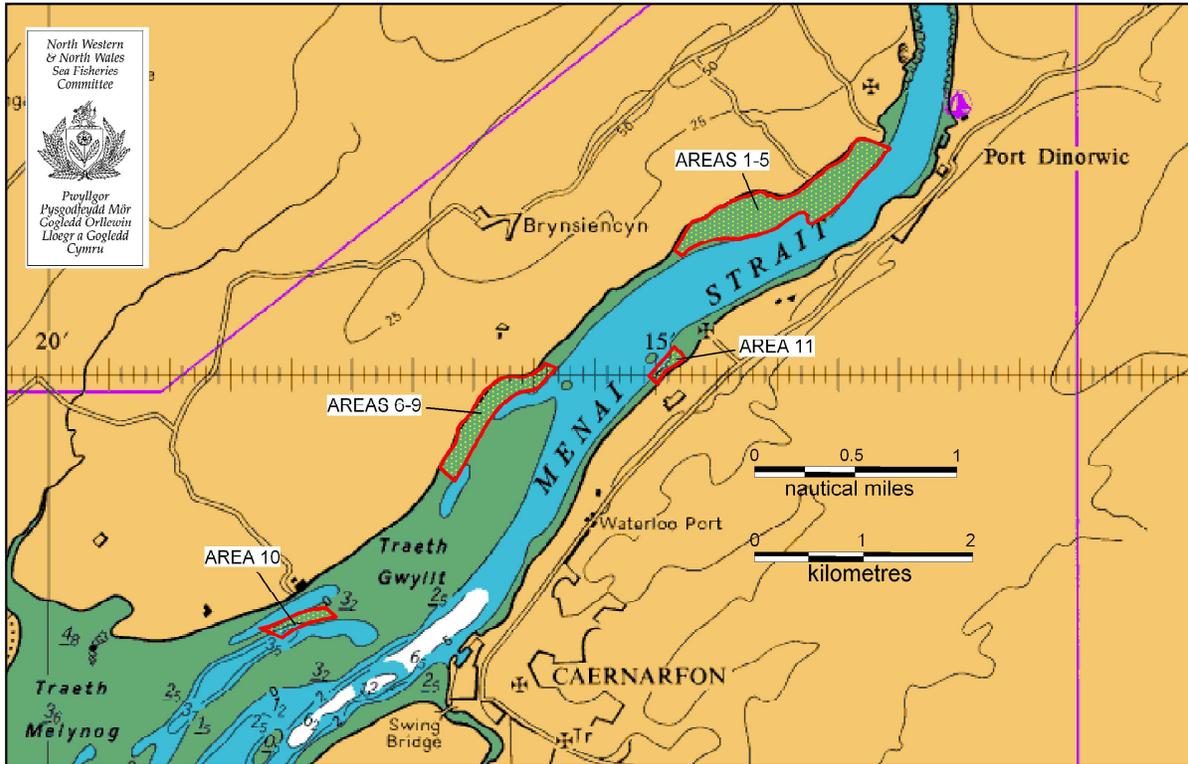
Please do not hesitate to contact me if you require clarification on the above or if you should need to discuss this project further.

Yours sincerely



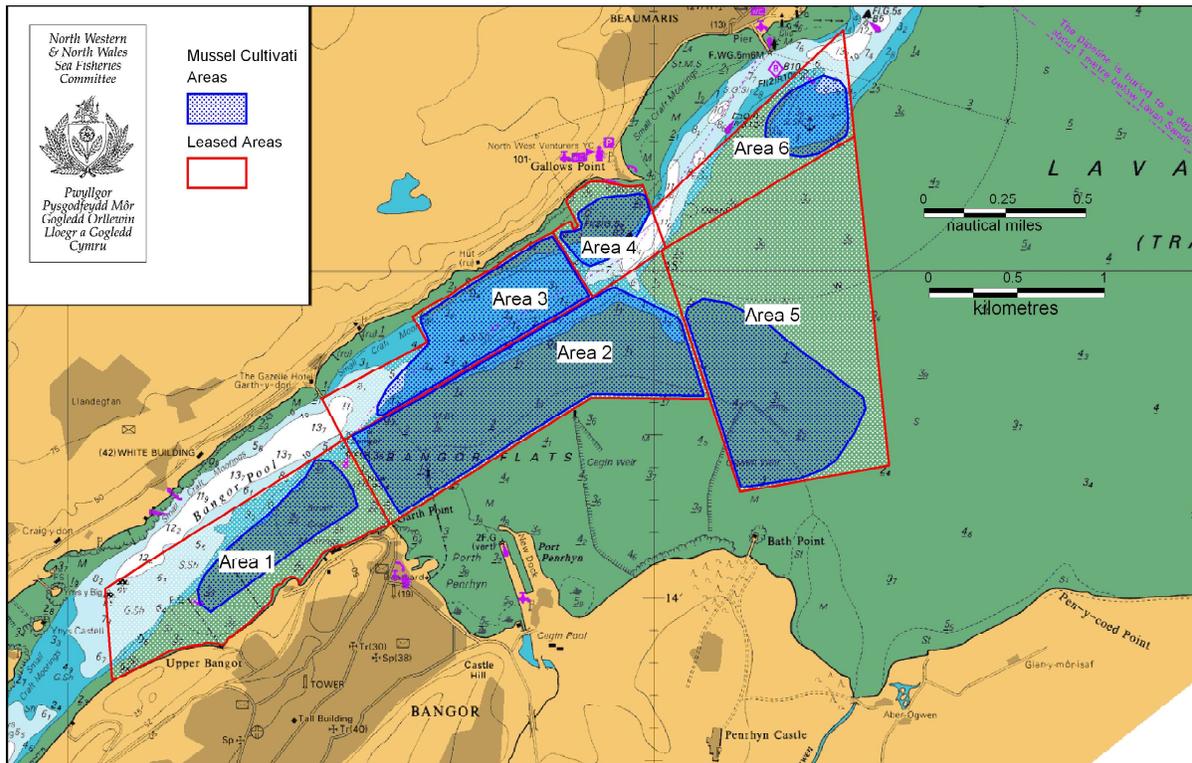
Richard Jones
Harbour Master

Appendix A - SHELLFISH CULTIVATION AREAS



SHELLFISH CULTIVATION AREAS IN THE WESTERN MENAI STRAIT

This chart is reproduced from material obtained from the UK Hydrographic Office with the permission of the Controller of Her Majesty's Stationery Office and UK Hydrographic Office



SHELLFISH CULTIVATION AREAS IN THE EASTERN MENAI STRAIT

This chart is reproduced from material obtained from the UK Hydrographic Office with the permission of the Controller of Her Majesty's Stationery Office and UK Hydrographic Office



4.3 Response 9 Royal Yachting Association

I am responding to your document outlining a proposal for a community tidal energy project located around Anglesey.

The RYA is the national body for all forms of recreational and competitive boating. It represents dinghy and yacht racing, motor and sail cruising, RIBs and sportsboats, powerboat racing, windsurfing, inland cruising and personal watercraft. The RYA is recognised by all Government offices as being the negotiating body for the activities it represents; as such, it takes an active role in influencing policy and has been a voice for recreational boating for more than a century.

The RYA currently has over 102,000 personal members, the majority of whom choose to go afloat for purely recreational non-competitive pleasure on coastal and inland waters. There are an estimated further 500,000 boat owners nationally who are members of over 1,500 RYA affiliated clubs and class associations.

The RYA also sets and maintains an international standard for recreational boat training through a network of over 2,200 RYA Recognised Training Centres in 20 countries. On average, approximately 160,000 people per year complete RYA training courses. RYA training courses form the basis for the small craft training of lifeboat crews, police officers and the Royal Navy and are also adopted as a template for training in many other countries throughout the world.

The RYA has developed a position paper on the development of tidal energy projects which can be seen at: <http://www.rya.org.uk/SiteCollectionDocuments/legal/Web%20Documents/Environment/RYA%20Position%20OREI%20Tidal%20-%20March%202012.pdf> The RYA would encourage both Swanturbines Ltd and Menter Môn to take this document into account and to consult with local Yacht Clubs prior to making any decision on an appropriate location. Recreational boating is likely to be a sensitive receptor in each proposed location and it is our initial view that none of the proposals are particularly suitable at this stage.

I am of course more than happy to discuss your proposal in greater detail as they develop. Please do not hesitate to contact me if you require further help or information.

Kind Regards

Stuart Carruthers

RYA Cruising Manager

Royal Yachting Association

T: 02380 604230 | M: 07909992382 | E: stuart.carruthers@rya.org.uk

Dear Stuart Carruthers,

Many thanks for your email and response to the consultation on behalf of the RYA. We will certainly take the RYA position paper into account.

Major local yacht clubs have also been included in this early stage consultation.

Kindest regards,

Hannah



4.4 Response 11 Trearddur Bay Sailing Club

Dear Hannah.

I am the Commodore of The Trearddur Bay Sailing Club and your summary and feedback request have been passed on to me by our Secretary Sally Greensmith. Before I am able to complete the survey I need some more information. Can you tell me whether the positioning of these turbines would create a no go zone around or above them - given that the optimum distance from the coast is 50 - 100 metres.

Obviously the tidal rise and fall here is considerable. Is the presumption that any installation of these devices is in areas that are used by the public or commercial interests. ?

I look forward to hearing from you.

Deborah Morrissey

Dear Deborah Morrissey,

Thank you for your email. The turbines can be installed in areas used by the public or for commercial interests. A no-go zone could be possible and would depend on the clearance above the blade tip to the water surface. A turbine will always be appropriately marked for navigation, as with any other marine structure or buoy.

I hope this will help you in answering the consultation form, please do not hesitate to email if there are any more questions.

Kindest regards,

Hannah

Thank you for that information - a couple of other questions: How big are the turbines, How many would be sited together? At low water is there a minimum depth at which turbines blades would be below the surface. ? I am sure you can appreciate that from The Sailing Club's point of view there could be a number of potential problems. Yours Deborah Morrissey

Dear Deborah Morrissey,

The turbine dimensions are not yet decided, as well as the distances between them. The minimum depth of the turbine blades is also unknown at this point.

I apologise for the vague answers; the downside to engaging with the stakeholders from the very beginning of the project is that we don't have any specifics at this stage.

Please do include the maximum draught the sailing club would need to safely pass over a sub-surface structure. Also an indication of the 'high traffic' areas of the Sailing Club would be useful to us, if you have any information along those lines.

Please do raise all the potential problems and concerns in the formal reply to the consultation.

Kindest regards,

Hannah



4.5 Response 14 North West Ventures Yacht Club Beaumaris

1. Michael Butterfield
2. North West Ventures yacht Club Beaumaris.
3. They are listed as all being protected sites.
4. Not that I am aware of.
5. The seabed in these protected zones generally has to be protected and turbines and cabling will compromise this.
6. There is considerable sailing activity in the sites adjacent to the Menai Strait where the constrictions that increase the tidal flow also constrict yachts in their passage of the area. There are often no safe alternative routes for yachts and the turbines may be at a depth to cause a hazard. The land adjacent to the sites is sensitive environmentally so cabling would be difficult. there is a lesser restriction at Holy Island.
7. The turbines may affect the yachting, fishing (there is tourism in fishing in the area) and general shipping which used the right of navigation. Nature reserves on the shore may be affected by cabling and they are often used for recreation. There is also some lobster fishing in the area with pots which would be incompatible with turbines.
8. I do not think the Menai strait (3) regions would be suitable at all and could not comment on Holy Island.
9. I see no positive impact of the turbines on the area.
10. Holy Island but only because the Menai Strait is so unsuitable.

Any further questions please contact

Mike Butterfield 01248810300 pmbutterfield@msn.com

1/8/13

Dear Mike Butterfield,

Many thanks for your reply to the early stage stakeholder consultation. Your response will certainly be included in the results of the consultation.

Kindest regards,

Hannah



4.6 Response 15 Marine and Coastguard Agency

Hannah

In response to your feedback request, on your proposed tidal energy locations off Anglesey;

The following MCA comment is provided on issues relevant to shipping and navigation, the majority of your questions are not particularly relevant from this perspective therefore a generic approach has been adopted.

in considering suitable sites for tidal development, shipping, navigation, fishing, sailing and leisure need to be considered, the following details should be scoped into any ES submission made.

Collision Risk

Navigational Safety

Visual intrusion and noise

Risk Management and Emergency response

Marking and lighting of site and information to mariners

Effect on small craft navigational and communication equipment

The risk to drifting recreational craft in adverse weather or tidal conditions

The likely squeeze of small craft into the routes of larger commercial vessels.

It is not possible to undertake a formal review of locations or offer a view on which sites might be preferred, at this early stage its more realistic to consider which sites are more likely to be challenging. In order to assess each of the regions you will need to undertake a detailed navigation risk assessment (NRA) upon which a formal review can be undertaken. The Navigational Risk Assessment will need to be submitted in accordance with MGN 371 (and 372) and the DTI/DfT/MCA Methodology for Assessing Wind farms (the methodology also address wave and tidal devices).

However on initial assessment, the Puffin Island and Holy Island sites, would seem to have feasibility, Newborough would need to provide far greater detail before any assessment could be made. Menai Straits would appear unlikely to be able to support any form of device, navigation is already challenging and restricted, any further constraints on navigation in this area could not be supported.

In response to Q9, there is no obvious positive impact for tidal turbines on shipping and navigation.

Regards

Graeme Proctor
Offshore Renewables Lead
MCA Navigation Safety
Bay 2/04 Spring Place
105 Commercial Road
Southampton
SO15 1EG

T 02380 329191

Dear Graeme Proctor,

Many thanks for your reply to the consultation. Your expert knowledge and advice has been included in the results of the consultation.

Kindest regards,

Hannah



4.7 Response 16 Traeth Coch Sailing Club

1) Clive F Smart

2) Traeth Coch Sailing Club

3,4,5) No knowledge of this other than the possible adverse effect on fish and the wide variety of sea birds.

6) The principal activity to be affected are Sailing, Canoeing and kayaking

The area round South Stack can be an exceedingly difficult sailing area. This area is also used by canoes and Kayaks.

The area at the south end of the straights is also very dangerous at some states of the tide for yachts entering and leaving the straights. This also applies to the section near the bridges-the Swellies-

The North eastern end of the straights between puffin and the mainland is quite narrow but less hazardous

7) Anything which was always at least 10 meters below the lowest low tide level would obviously not present any serious problems for sailing though problems could arise during maintenance and building of any structures.

Clearly any traffic exclusion zones for sailing in any of these areas would be totally unacceptable.

The effect on the residential sailing community would be considerable. The adverse effect on the tourist industry particularly around Holyhead and the Menai Straights would also be considerable.

8,9) So long as the needs of the sailing community can be protected and the turbines can be sited so that there are no exclusion zones for sailing, the tidal energy scheme would be an excellent idea and could have a positive impact on the region.

10) South Stack and the Swellies, by Britannia Bridge on the Anglesey side away from the main channel,

would probably be best.

Why is the area between the Skerries and Carmel Head not being considered?

Clive smart

Dear Clive Smart,

Many thanks for your reply to the consultation, your thoughts and expert knowledge will be included in the results.

Kindest regards,

Hannah

Swanturbines Ltd

152, Morrison Street,

Edinburgh

EH3 8EB



4.8 Response 18 Sea Kayaking UK

Hi Hannah,

I am e-mailing re the proposed sits for the tidal turbines. These are obviously being placed in all areas of fast tide. I would just like to say that these areas are all used by many sea kayakers who also go to these areas specifically for the fast flowing water, tidal races and overfalls. Anglesey is known world wide and attracts thousands of paddlers in these areas every year.

There would be no objections provided they were deep and of no danger. If they also stood up above the surface like the turbine in Stranford Loch then although not ideal you would need to plan for kayakers still using the area but more importantly would use the eddy lines and pillars as a white water training area.

My details:

Nigel Dennis, SKUK, Newry Beach Rd, Holyhead, Anglesey, LL65 1YD. Tel 01407765550 Mob 07720201103

Director of Sea Kayaking UK (Manufacturer of sea kayakers in Holyhead) Represent the BCU (British Canoe Union) and Canoe Wales

I am also a member of the Holyhead Lifeboat Crew and should these tidal turbines remain deep below the surface then they should be fine. If however they were above the surface or less than say 5m down to the top of the turbine they could well be a significant danger to small boats etc

Regards,

Nigel Dennis

Dear Nigel,

Many thanks for your email, your views and local knowledge have been included in the consultation. I also send a form to Holyhead RNLI, after speaking to Brian Thompson, please do respond on behalf of Holyhead RNLI, if you have the time.

Kindest regards,

Hannah

4.9 Response 20 Welsh Yachting Association

Dear Ms Buckland

I am responding to your document on behalf of the Welsh Yachting Association(WYA) with regards to the proposals for a community tidal energy project located around Anglesey.

The WYA is the national Governing Body for all boating related matters in Wales. We are recognised by the Welsh Government, Sport Wales and UK Sport.

WYA is also the Royal Yachting Associations Council for Wales. The RYA is the UK National Governing Body for all forms of recreational and competitive boating. It represents dinghy and yacht racing, motor and sail cruising, RIBs and sportsboats, powerboat racing, windsurfing, inland cruising and personal watercraft. The RYA is recognised by all Government offices as being the negotiating body for the activities it represents; as such, it takes an active role in influencing policy and has been a voice for recreational boating for more than a century.

Between us we represent the interests of over 25,000 club and individual members here in Wales the majority of whom choose to go afloat for purely recreational non-competitive pleasure on coastal and inland waters.

The RYA also sets and maintains an international standard for recreational boat training through a network of over 2,200 RYA Recognised Training Centres in 20 countries. On average, approximately 160,000 people per year complete RYA training courses. RYA training courses form the basis for the small craft training of lifeboat crews, police officers and the Royal Navy and are also adopted as a template for training in many other countries throughout the world.

The RYA has developed a position paper on the development of tidal energy projects which can be seen at:
<http://www.rya.org.uk/SiteCollectionDocuments/legal/Web%20Documents/Environment/RYA%20Position%20OREI%20Tidal%20-%20March%202012.pdf>

The WYA would encourage both Swanturbines Ltd and Menter Môn to take this document into account and to consult with local Yacht Clubs both on the island and along the North Wales Coast prior to making any decision on an appropriate location. Recreational boating is likely to be a sensitive receptor in each proposed location and it is our initial view that none of the proposals are particularly suitable at this stage.

I am of course more than happy to discuss your proposal in greater detail as they develop. Please do not hesitate to contact me if you require further help or information.

Kind Regards

Steven

Steven Morgan 

Chief Executive / Prif Weithredwr

Welsh Yachting Association

Cymdeithas Hwyllo Cymru

T/S: 01248 670738 | **M/S:** 07789 792 569 | **E:** steven.morgan@welshsailing.org



Head Office / Prif Swyddfa: 8, Llys-Y-Mor, Plas Menai, Llanfairisgaer, Caernarfon, Gwynedd LL55 1UE. **T/S:** 01248 670738
<http://www.welshsailing.org>

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Have you seen the new WYA Video click on the link to view.....

<http://www.welshsailing.org/Pages/default.aspx>

The Welsh Yachting Association is a company limited by guarantee and is registered in Wales. Registered business number 2908378. Registered business address: WYA, 8 Llys Y Mor, Plas Menai, Caernarfon, Gwynedd. LL55 1UE. VAT registration number 559926973

Email Disclaimer: <http://www.welshsailing.org/footerwal/legaldisclaimers/Pages/WYAemail.aspx>

Mae Cymdeithas Hwyllo Cymru yn gwmni cyfyngedig trwy warant a'i gofrestru yng Nghymru. Rhif Cofrestru'r Busnes: 2908378. Cyfeiriad cofrestredig y busnes: WYA/CHC, 8 Llys Y Mor, Plas Menai, Caernarfon, Gwynedd. LL55 1UE. Rhif cofrestru TAW 559926973

Ymwadiad e-bost: <http://www.welshsailing.org/footerwal/legaldisclaimers/Pages/WYAemail.aspx>

Dear Steven Morgan,

Many thanks for your reply to our email, the WYA position has been included in the results of the consultation.

We have included the major yachting associations on and near Anglesey in our consultation to understand the use of the 4 identified areas by seafarers and to use the local knowledge.

To understand your reply fully, we would be very grateful if you could elaborate on why none of the proposals are suitable at this stage.

Kindest regards,

Hannah

4.10 Summary of Environmental Consultee responses

Response0_NRW

NRW outline views on these sites

- Menai straight very sensitive area
- Mobile protected species present throughout (Cetaceans, birds)
- If sites can be shown to be out with feeding areas, this may be ruled out
- Point outside of SAE by Fort Belan might be least sensitive
- Holy island no designations on sea area but coast is sensitive with diving birds
- Feature maps to be examined and Physical Footprint of device to be considered within Menai Strait region
- Marine Renewable Strategic Framework for Wales document available online.
- Puffin Island site – Scotra and Red Throated Diver may use area around here for foraging.
- Type of installation important as will affect impacts
- What is above surface and what other infrastructure will be required?

Plans within WAG/Crown Estate ongoing plans

Crown Estate are creating Demonstration Zones around UK. Although exact locations are not publicly available information it is expected that both Anglesey and the Llyn Peninsular will be included. The exact boundaries are yet unknown and it is not expected to include the Menai Straits themselves.

The start point for the Crown Estate was the results of the WAG studies 'Natural heritage evidence to support strategic planning for marine renewable energy' (CCW Policy Research Report No. 11/3)

Crown Estate will be looking for Third Party Managers for each of the Demonstration Zones. Both Gerallt and John Callaghan at Crown Estate have expressed an interest in Menter Môn being involved in this.

Other issues

Issues surrounding lack of evidence of the effect of tidal energy devices on mobile species is being gathered in Orkney and Strangford. Further info is expected to come from Tidal Energy Limited deployment in West Wales. This has been consented on the understanding that it is a limited period (12 month) deployment and will have strict limits on the number of collisions with mammals that can be tolerated. Challenges remain in terms of how these collisions are monitored. Data is expected to be available 1 year after deployment in 2014. (ie 2015)

Next steps in this project are to assess results of consultation to identify most suitable site and potentially undertake survey. Also to consider how project resources can best be used in light of NRW timescales and how best Menter Môn can benefit from tidal energy in the near term

Response21_BAW

Council for British Archaeology suggest a desk based study of the historic environment is completed for the project, to identify areas of sensitivity, such as ship wrecks or Palaeolithic settlements. The Gwynedd Archaeological Trust are able to assist in this.

Response8_RSPB

Climate change is the greatest medium to long-term threat to biodiversity. It is already affecting birds and wildlife in the UK and globally, and it threatens to drive future biodiversity loss unless urgent action is taken to reduce emissions and keep the world within 'safe' levels of climate change. One study published in Nature indicates that climate change could cause up to 35% of species to be committed to extinction by 2050. The RSPB therefore believes that an energy revolution is needed to enable a rapid transition to a low carbon economy to avoid the worst of the climate change impacts that have been predicted. We therefore strongly support the UK's greenhouse gas reduction targets and recognise the critical role that renewable energy, including tidal stream and wave power, will play in delivering them as part of a wider package that prioritises energy savings.

However RSPB has concerns that there are a number of highly sensitive and internationally designated wildlife sites both within and in close proximity to the prospective locations. European sites giving particular (but not exclusive) cause for concern include:

- Y Fenai a Bae Conwy / Menai Strait and Conwy Bay SAC
- Glannau Ynys Gybi / Holy Island Coast SPA and SAC
- Y Twyni o Abermenai i Aberffraw / Abermenai to Aberffraw Dunes SAC
- Glannau Môn: Cors heli / Anglesey Coast: Saltmarsh SAC
- Ynys Seiriol / Puffin Island SPA
- Traeth Lafan / Lavan Sands, Conway Bay SPA
- Ynys Feurig, Cemlyn Bay and the Skerries SPA
- Liverpool Bay SPA

Development of any scheme should be conditional upon its compliance with the requirements of the EIA, SEA and Habitats Directives, and also in our view upon its use to monitor, test and develop tidal power technologies and their impacts.

We draw the developer's attention to the multi-sieving methodology employed by the Welsh Government in support of the seven Strategic Search Areas (SSAs) generated pursuant to TAN 8 (2005) in respect of major onshore windfarms in Wales. The key element of this methodology is that it identified statutorily-designated nationally and internationally-important sites for nature conservation as "absolute constraints". We recommend that the developer pursues this approach at this strategic stage, in order to reduce the likelihood of conflicts at the application stage.

Response12_SWF

The Sea Watch Foundation (and Bangor University), highlight the importance of Puffin Island, Holy Island and Newborough/Llanddwyn for foraging birds and marine mammals. Puffin Island and Holy

Island are close to two colonies of birds, namely guillemot, razorbill, shag, and kittiwake, as well as puffin, cormorant, herring, greater and lesser black backed gull.

Newborough/Llanddwyn is used by nesting cormorants and gulls, as well as foraging terns.

All three are important areas for harbour porpoise, as well as on occasions other species like bottlenose dolphin and Risso's dolphin.

Marine mammals and birds particularly utilise high energy coastal areas because they concentrate fish prey and provide a predictable food source linked to the tidal cycle. Because of its inshore and very shallow nature, this is less of an issue for sites within Menai Strait, however.

Response10_Whale and Dolphin Conservation

Large gaps still remain in our knowledge of the cetaceans which live year round or migrate through our waters.

Although no clear picture exists of their abundance and distribution in most areas of UK so the precise location of critical habitat areas is still largely unclear, the waters around Anglesey are considered by WDC as critical habitat for harbour porpoises and an area of interest for bottlenose dolphins and Risso's dolphins.

WDC suggests that baseline data should be collected to inform presence, population trends, distributions and movements and foraging activities, for a minimum of two years for mobile species. Broader studies may also be required to understand any combined impacts with other developments within the region and the effect of underwater noise. WDC suggests in-field monitoring should continue during development and post-development so that potential impacts can be assessed and adaptive management applied.

WDC is not against initiatives to combat climate change but we are of the firm belief that placing tidal turbines in critical habitat for harbour porpoises and an area of interest for bottlenose dolphins and Risso's dolphins could have significant and devastating impacts and as a result we have severe concerns regarding the four proposed locations around Anglesey, in particular Holy Island and Newborough.

Response17_Clwyd_Conwy_and_Gwynedd_Rivers_Trust

Important fish from an economic and environmental perspective travel between sea and river to spawn. As an environmental charity Clwyd, Conwy and Gwynedd Rivers Trust is of course very supportive of projects such as this.

The main concern with the project is the importance of the Menai Straits in the migration of Salmon and Sea Trout to North Wales rivers. The straits form an important conduit and any threat to their safe passage or feeding is a major concern. They want the project to be correctly assessed and approved by NRW.

In addition, one member, as a keen recreational Sailor, would like to express concern about the project for safe navigation.

Response5_North_Wales_Wildlife_Trust

NWWT manages 6 nature reserves on Anglesey and has 4000 members nationally. They protect biodiversity in the countryside and work towards ecologically functioning seas that can adapt to climate change, encouraging a sustainable, low carbon contribution to the economy.

NWWT highlight the nature conservation status of considerable sections of the Anglesey coastline and recommend a more robust approach to the project. They ask if the crown estate has been contacted and also the number of turbines in the array and what the land based infrastructure needed is. More information is needed on decommissioning and maintenance effects and it is suggested that the tidal flow can be turbulent, effecting the engineering.

The environmental sensitivities must be qualified in a desk based study, listing areas of further research. NWWT also calls for the definition of community and a cumulative effect study, considering the other projects planned in the area.

More specifically, NWWT highlights Abermenai as significant for seed mussel harvesting, navigation and drift diving. It is suggested by NWWT that Southstack is too exposed and turbulent for the project and also includes dive sites.

Response6_Liverpool_University

The research of at Liverpool University highlights Puffin Island as an SPA as it is an essential foraging habitat of seabird breeding populations. The University offers its data and expertise to a full EIA. Considerations should include fatal collisions of bottom feeding species, such as European Shags, as well as food chain effects on sand eels and fish.

Summary of Planning Consultee responses

Response7_Welsh_Government

Welsh government support environmentally sound energy projects with clear community benefits. Hoy Island is identified as an area of key commercial resource, with a number of project developers interested in exploiting the resource with pre-commercial arrays and therefore would prefer to protect the area. However collaboration and shared infrastructure may be possible.

Response3_Isle_of_Anglesey_county_council_EDU

Environmental designations and tourism by landfall must be included in impact assessments. Also impact in conjunction with other major projects, such as large windfarms, should be assessed. It is recommended to engage with Bangor University.

The document should be expanded to define community and community benefits as IACC will be seeking community benefits to mitigate any negative effects of installation and operation. A workshop for stakeholders is suggested. IN addition a number of questions were asked:

- What is the Project scale and timescales, will prototype testing be needed?
- What are the Infrastructure scales? Including foundations/moorings, electrical hubs, cable landfall, navigational marks and transport links.
- Will the plans negatively impact Plas Newydd's development of the UK's largest marine source heat pumps in the Menai Strait?
- More specifically, Newborough is identified as a strong community spirit area, possibly unreceptive to the project. Menai Strait is highlighted as an iconic tourist destination, encompassing Menai suspension bridge, National trusts Plas Newydd and the Faenol Estate. A review the Mon-Menai Coastal Action Plan is suggested to determine coastal use. Holyhead port may positively benefit from job creation and local skills development.

Response22_JonesPeckover

Jones Peckover act as a sub-agent for Crown Marine Estate. They assume Crown Estate will be consulted regarding leasing and installations in existence in each of the proposed areas.

Summary of Fishing Consultee responses

Response4_Welsh_Fishermans_Association_Ltd

WFA are concerned by the total lack of engagement with key stakeholders entirely dependent on and active within areas proposed. Serious concern in relation to social and economic consequences of total exclusive access of installing the project is raised and the fragility of the coastal communities is highlighted.

They would prefer to wait until project specific information is known before answering the questions outlined and believe the research responsibility rests solely with the developer.

WFA understands and supports the nations need for cleaner energy but this cannot be at any cost, therefore the WFA cannot support the deployment of any tidal energy generation systems around Anglesey and will vigorously oppose any such proposals.

Response23_North Wales Fisherman's Cooperative

Although a consultation document was issued to NWFC, apparently they only received it via WFA. This caused an understandable reaction in that NWFC felt that it hadn't been included.

After a number of emails explaining the situation NWFC appears to be less aggrieved by the consultation. However we have not received any further clarification other than their involvement in the WFA response.

The primary theme in the emailed response is that they do not have enough information about any proposed project to make any useful comment at the current time. However they do state concerns regarding impact on the fishing industry.

Summary of Potential Energy Users responses

Response13_Energy Island

This response was solely concerned with trying to deduce further information about what technology is proposed.

Summary of Recreational Consultee responses

Response18_Sea_Kayaking_UK_Holyhead_RNLI

Sea Kayakers go to all these areas specifically for the fast flowing water, tidal races and overfalls. Anglesey is known world-wide and attracts thousands of paddlers in these areas every year.

There would be no objections provided they were deep and of no danger. If they also stood up above the surface like the turbine in Stranford Loch then although not ideal you would need to plan for kayakers still using the area but more importantly would use the eddy lines and pillars as a white water training area.

Should the tidal turbines remain deep below the surface, below 5m, the RNLI at Holyhead also has no objections.

Response14_North_West_Ventures_Yacht_Club_Beaumaris

All proposed sites are listed as protected and the seabed will be compromised by turbines and cabling. Navigation of the considerable sailing activity through Menai Strait is already constricted with no safe alternatives routes therefore turbines may cause a depth hazard. This effect is less at Holy Island. Other effects include fishing and tourism.

Response1_Holyhead_sailing_club

Holyhead sailing club offers youth training through Dinghy and keelboat racing through to offshore yacht cruising and racing. The Human Activities, are the use of the areas for the navigation of pleasure vessels, both sailing and power craft; and the effect on the safety of these activities following the installation of Sub Sea Generators, which are assumed surface-piercing.

The proposals correspond to areas generally acknowledged to be 'tidal gates' in navigational terms. Sailing vessels (dependent on size) make between 4 and 7 knots under sail or engine, this corresponds to the tidal rates found around the island. In the areas of interest, obstructions to navigation would produce significant collision risks.

It is accepted that the deployment of Tidal Turbines would have a positive effect on electricity generation; however, unless sited away from areas currently used for leisure activities, they will have a significantly negative effect on tourism and the island's economy.

Turbines need to be sited away from areas of commercial fishing and recreational use. As such, in its present form, none of the areas considered are suitable for the deployment of tidal turbines.

Holyhead Sailing Club would be pleased to have an involvement in any future proposals and provide advice, based on the considerable knowledge of its membership.

Puffin Island

The Navigational Channel between Penmon Lighthouse and the Perch Rock is heavily used by pleasure craft and commercial vessels. Due to the Tidal constraints and weather conditions, manoeuvrability in the entrance is often limited and any restrictions to navigation in this area would have a significant impact on the safety of vessels in this entrance.

There are also two anchorage areas used by yachts awaiting favourable tidal conditions to either leave or enter the Straits, in the vicinity of the Sound.

To the North east of puffin, there is less traffic; mainly vessels transiting to Conway and fishing/angling parties.

Holy Island

The proposed area between Holyhead Harbour Breakwater and Penrhos Bay corresponds almost exactly with the route taken by pleasure craft and other small vessels, rounding the western end of Anglesey. This applies to local passage making and to vessels transiting St Georges Channel and the Irish Sea.

In practice, there is little 'slack water' around Anglesey. Vessels time their approach to take advantage of a favourable tide. At these times, a dangerous tidal race extends up to 1.5 miles from South Stack; whilst inside this tidal race, close to the lighthouse there is safe water. Owing to the rate of tidal streams and counter currents in the area close to the coast, any obstructions would cause danger and increased collision risk.

The alternative of passing to the North of the tidal race brings craft into conflict with the frequent high speed Ferry traffic between Holyhead and Dublin.

The South of this area from Penrhyn Mawr to Ravens Point is additionally a popular sailing area based at Trearddur Bay for Dinghies, fishing and kayaks.

Menai Strait

Much of this area already provides Navigational challenges for all craft. Depths suitable for safe navigation occur in narrow channels with significant tidal constraints. Any obstruction would exacerbate the current dangers and further restrict access.

Newborough

This area of the Southwest approach to the Menai Strait is mainly an area of drying sandbanks or less than 2metres at chart datum. The only area of any depth within the proposal is the approach from Mussel Bank to Aber Menai Point. This entrance to the Straits at this point is narrow and any obstruction would be a danger to navigation. There appears to be no area in excess of 10metres in the western part of the proposals as identified in your consultation.

Response11_Trearddur-Bay_Sailing_Club

TBSC is concerned about a no-go zone at site location and public and commercial interests.

Response16_Traeth_Coch_Sailing_club

TCSC identifies sailing, canoeing and kayaking as affected activities, with South Stack, the south of the Straits and the Swellies highlighted as difficult and dangerous areas. However, South Stack and the Swellies (Anglesey side, away from main channel) are considered the best location.



TCSC considers traffic exclusion zones totally unacceptable. Also the effect on sailing communities and tourism is considered adverse. Considering no exclusion zones and protected sailing needs, the tidal energy scheme would be an excellent idea with positive impact in the region.



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Morlais Demonstration Zone

Appendix 5 – View from Mr Llewellyn’s land

Document Title: Response to questions raised in the public speaking sessions regarding public consultation

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5.2 – Orange dot shows location indicated by Mr Llewellyn, Purple line indicates extent of Public Rights of Way in the area



5.3 – Inaccessible cliff top, picture taken from the western end of the Right of Way shown in 5.2

