

**Filling out this form:** You can either: - print this form and fill out the relevant fields using **block capitals** and in **black ink** or - fill out the relevant fields on screen, then click Print form. The form must then be signed and returned to the above address or sent by email.

## APPLICATION FOR A LICENCE TO UNDERTAKE MARINE ENERGY WORKS

**Construction of offshore wind-farms, sub-tidal power and other energy generation schemes including barrages, onshore/underground and sub-sea cables, sub stations, scour protection under The Marine and Coastal Access Act 2009.**

**Please read these notes together with the legislation under which this application is made.**

- The Marine Licensing Team (MLT) administers applications under Part 4 of the Marine and Coastal Access Act 2009 on behalf of the Welsh Ministers, as the Licensing Authority.
- In addition to a Marine Licence from the Welsh Government, you will also need; Section 36 consent from the Marine Management Organisation, under The Electricity Act 1989, if the output of your energy project is under 100MW. **Or** a Development Consent Order from the Infrastructure Planning Commission if your project is over 100MW.
- The completed application form, together with 13 copies, must each (both the original and the copies) be accompanied by a location plan, descriptive drawing(s) and any supporting environmental assessment. All should be submitted to the above address **at least 16 weeks before the licence is required**. Please note that should some of the material be protected by copyright you will be required to include additional copies of that material to facilitate the Marine Licensing Teams consultations (see question 6(b)). Where documents can be emailed or sent on CD we are happy to receive the additional **13 copies** in this format, we will always require **1 complete hard copy** for our records.
- Some projects may raise matters that require a significantly longer time for consideration. This is most likely to be the case for large projects where substantial volumes of material are to be deposited or excavated and those taking place adjacent to or within a marine conservation area or requiring an environmental statement under environmental impact assessment regulations. Applicants are advised to contact the MLT as early as possible during the planning stage in order to avoid delays in determining their application.
- **All activities need to comply with the Water Framework Directive (WFD). The framework and guidance can be found on the Natural Resources Wales website, <http://naturalresources.wales>. The results of your WFD assessment must be attached to your marine licence application.**
- Information should be provided about the anticipated duration of the entire project in respect of works below mean high water springs, together (where appropriate) with details of the planned phasing of the work for which consent is sought during the first year and each subsequent 12-month period. Further application may be necessary to renew a consent that is due to expire.
- A licence fee is payable in respect of an application. Details of fees can be found on our web pages.

**Please note applications will not be processed without the correct relevant fee or invoicing details.**

Payments can be made via Cheque, BACS or credit/debit card.

Cheques should be crossed and made payable to **Natural Resources Wales**.

For BACS payments ensure you provide the reference number (not remittance number)

For credit/debit card payments please complete the CC1 form and submit with the application. The CC1 form can be found on our web pages

Further information on payment methods can be found on our web pages

- Please answer all the questions. If any information is not available at the time of application please indicate at the appropriate section, giving reasons in a covering letter, and submit the details separately as soon as possible. Any delay in forwarding details is likely to result in a delay in determining your application.

**It is the responsibility of the applicant to obtain any other consents or authorisations that may be required.**

## **Project Description and cost**

### **1(a). Please provide a brief description of the project**

A description of the project is provided in Chapter 4 of the accompanying Environmental Statement. In summary, the Morlais Project (the Project) is a tidal stream demonstration project, which will have an installed capacity (MW) of 240 MW.

### **1(b). Please provide the estimated gross cost of the project (including materials and labour) for works that fall below Mean High Water Springs.**

£2,438,980

## **Applicant's details**

### **2. Applicant for licence**

Title

Mr

Initials

G

Surname

Morley

Trading Title  
(if appropriate)

Menter Môn Cyf

Full postal address  
(including postcode)

Neuadd Y Dref,  
Buckley Square,  
Llangefni,  
Gwynedd, Ynys Môn, LL77 7LR

Name of Contact  
(if different)

Not applicable

Position in company  
(if appropriate)

Project Manager

Telephone number  
(including area code)

01248 725 700

Fax number

Not applicable

(including area code)

Email address

Graham@mentermon.com

Company registration  
number

03160233

**Details of any agent, contractor and/or vessel used to carry out the works**

**3 (a). Agent Details**

Title  Initials  Surname

Full postal address  
(including postcode)

N/A

Name of Contact  
(if different)

N/A

Position in company  
(if appropriate)

N/A

Telephone number  
(including area code)

N/A

Fax number  
(including area code)

N/A

Email address

N/A

Company registration  
Number

N/A

N/A N/A

**3 (b). Contractor Details**

No known

**3 (c). Vessel Details**

Operator

Name of vessel

Not known

Not known

3 (d). If the contractor or vessels are not known at application stage when do you expect to provide these details (please note these details will be required for the licence)

Programme of works is detailed in Chapter 4 of the ES which accompanies this application. After confirmation of consent in principle, Menter Môn will undertake a competitive tender exercise to select the contractor to undertake construction / installation of export cables and cable protection. On completion of the tender exercise works are programmed to be undertaken from 2021 onwards. While export cables and protection are being laid, tenants to the Project will begin making arrangements for installation of their tidal device arrays and supporting infrastructure, including tendering of installation works. It is expected that tendering and installations works will continue throughout the life of the project.

#### Duration of project

4. Start date

Offshore construction works to commence 2021

Expected completion date

Offshore construction and repowering throughout 37 year life of project from 2023.

#### Project Details

5 (a). Type of works proposed (please tick all appropriate boxes)

##### Energy generation

☐ Windfarm

☐ Anemometry mast

☒ Tidal power

##### Onshore works

☒ Sub-station/Onshore cables\*

##### Barrages and island

☐ Barrage

☐ Artificial reef

☐ Artificial island

☐ Habitat creation/Replacement

##### Cables

☒ Subsea cable/overhead/onshore cable

##### Navigation works

☐ Buoy/Navigation mark

##### Scour protection

☐ Gabion

☒ Mattress

☒ Rock placement

☐ Seabed investigation works

☐ Other

\* Electricity Act section 37 consent will normally be required for onshore cables and sub-stations.

5 (b). Please give full details below of the proposed project. Where the project is expected to take longer than 12 months to complete, you should provide details of the work to be done during the first year and that planned for each subsequent 12-month period. The method of construction should be described in the answer to question 6.

### Marine project elements

Construction of the following

- Up to nine export cables;
- Up to nine export cable tails (shared with onshore components);
- Navigation and environmental monitoring equipment;
- Mooring and foundation structures; and
- Offshore electrical infrastructure, including submerged, floating or surface emergent hubs.
- Up to 620 tidal devices, each comprising:
  - Foundation or anchors on or within the seabed;
  - A supporting substructure or mooring;
  - One or more Tidal Energy Convertors (TEC); and
  - Cable connections.

### Phased approach to the deployment of tidal devices

The Project will install arrays of tidal devices up to a potential maximum installed capacity of 240 MW. Build out to the Project's maximum installed capacity will be through a series of phases, with the number and scale of each phase of deployment linked to the outcomes of an Environmental Mitigation and Monitoring Plan (EMMP), which is provided in outline to support the Environmental Statement and consent application for the Project. The implementation of mitigation, monitoring and management measures will be agreed with regulators and overseen by an independent advisory group.

Indicative examples of potential phases of deployment are outlined below:

- **Phase 1:** Installed capacity (MW) at which no significant impact is predicted. This commitment ensures an initial level of mitigation in place at the start of the EMMP.

The scale of the Phase 1 deployment (MW) will be determined by the outcome of modelling of potential collision and encounter risk for marine mammals and diving birds, which is in dependent upon:

- The type of Tidal Energy Converters (TECs) to be installed in the array.
- The physical characteristics of the location of the array.

- **Phase 2:** If the results of monitoring of the first phase of deployment do not indicate a significant effect on marine mammals, and then the next phase of deployment would begin.

An example of a commercial level of deployment for a second phase of deployment is suggested in the ES, Chapter 25, Socio-economics, Tourism and Recreation, as 40 MW.

- **Phase 3:** An example of the next commercial level of deployment of 100 MW is suggested, however, this is indicative;

- **Phase 4:** Deployment to the maximum installed capacity of 240 MW.

### Repowering

During the life of the Project, several repowering events are predicted, during which up to half of the installed capacity (MW) may be replaced. This prediction allows for the ongoing development of tidal technology over time, and such repowering events could occur across the full area of the MDZ.

5(c). **Please detail the location of the proposed construction project.** This should include either national grid references (NGR) or latitude and longitude coordinates to 2 decimal minutes) defining the extent of the project.

The location of the project is in the sea to the west of Holy Island on Anglesey. Co-ordinates are provided in the attached spreadsheet 'Morlais Co-ordinates 151019.xlsx'

5(d). **The following must be provided with the completed application form:**

- (i) a suitably scaled extract of an Ordnance Survey Map (1:25,000 scale or larger) or Admiralty Chart which should be marked to indicate:
- the location of the project in relation to the surrounding area
  - the mean high-water spring tide mark
  - any adjacent SAC, SSSI, SPA/Ramsar or similar conservation area boundary.

The following ES figures provide the required information:

- Figures: 1-1

- (ii) construction plans and sections (showing work relative to tidal range) showing those proposed works below (seaward of) mean high water springs, which should give details of the materials to be used (for beach nourishment the quantity and source of material to be deposited is also required).

Details of construction are provided in Chapter 4 of the ES and supporting Figures, plus Figures 1-1 and 1-2.

- (iii) a descriptive schematic drawing and suitably scaled (for example 1:2,500 but not more than 1:10,000) location plan (either at A3 or A4 format) which show the full extent of the project in relation to the surrounding area.

Details of the Project are shown in Chapter 4 of the ES and supporting Figures, including Figures detailed in Section 5(d)(i) of this form.

The applicant should note that these drawings/plans may be copied to others as part of the MLT's consultation procedures. If they are subject to copyright, it is the **responsibility of the applicant to obtain the necessary approvals to reproduce the documents and to submit up to 13 copies with the application.**

6. **Please provide a detailed method of construction**, indicating any temporary structures, such as causeways, jetties, landing stages to be constructed below mean high water springs tide mark and the measures to be taken:

- (a) to minimise any risk to the marine environment
- (b) prevent undue interference to others
- (c) mooring of barges, pontoons, transhipment vessels
- (d) maintain navigational safety, including marking and lighting of works.

The following information is provided within the ES which accompanies this application. Chapter 4 details the Project Description, including all elements of the project design envelope, temporary structures, and construction methods.

Marine project elements comprise construction of the following

- Up to nine export cables;
- Up to nine export cable tails (shared with onshore components);
- Navigation and environmental monitoring equipment;
- Mooring and foundation structures; and
- Offshore electrical infrastructure, including submerged, floating or surface emergent hubs.
- Up to 620 tidal devices, each comprising:
  - Foundation or anchors on or within the seabed;
  - A supporting substructure or mooring;
  - One or more Tidal Energy Convertors (TEC); and
  - Cable connections.

Approaches to minimising risks to the marine environment are included in the following ES chapters:

- Chapter 7, Metocean and Coastal Processes;
- Chapter 8, Marine Water and Sediment Quality;
- Chapter 9, Benthic Ecology;
- Chapter 10, Fish and Shellfish Ecology;
- Chapter 11, Ornithology;
- Chapter 12, Marine Mammals;
- Chapter 13, Offshore Archaeology;
- Chapter 14 Commercial Fisheries;

All potential impacts and associated mitigation and management measures are also included in Chapter 27, Summary.

In addition, a number of outline management plans are also provided alongside the ES submission. The following plans include detail of approaches to reducing risks for receptors in the marine environment:

- Outline Construction Environmental Management Plan (outline CEMP);
- Outline Environmental Mitigation and Management Plan (outline EMMP); and
- Outline Invasive Species and Biosecurity Management Plan (outline ISBMP).

Navigation safety, including marking and lighting is discussed in Chapter 15, Shipping and Navigation, and accompanying appendix 15.1 Navigation Risk Assessment.

Please continue on a separate sheet if necessary. Please tick this box if you have done this. ☐

**7 (a). Description of materials to be deposited below mean high water spring (please tick all appropriate boxes).**

- |  |  |  |  |
|--|--|--|--|
| <input type="checkbox"/> Timber                      | <input checked="" type="checkbox"/> Iron/Steel | <input checked="" type="checkbox"/> Concrete | <input type="checkbox"/> Sand              |
| <input type="checkbox"/> Silt                        | <input checked="" type="checkbox"/> Stone/Rock | <input type="checkbox"/> Gravel              | <input type="checkbox"/> Plastic/Synthetic |
| <input type="checkbox"/> Biocides or other chemicals | <input checked="" type="checkbox"/> Other      |  |  |

If **other**, please describe:

The ES, Chapter 4, describes all seabed deposits.

One of the foundation types discussed is a drilled rock socket, into which a steel pile is inserted and then grouted in place.

Sockets will be drilled into the seabed and cut rock pieces removed from the drilled socket will be deposited on the immediate surrounding seabed. A worst case of up to 117,780m<sup>3</sup> during initial construction and a further 58,890m<sup>3</sup> (total 176,670 m<sup>3</sup>) during repowering across the life of the project is assessed in the ES that accompanies this application, with benthic impacts considered in Chapter 9 Benthic and Intertidal Ecology.

**7 (b). Method of delivery of materials.** If sea delivery, please include details of the vessels to be used with a chart of the proposed route and any proposed transshipment area.

Delivery of marine construction materials to site will be by sea.

The ports and vessels used cannot be determined at this stage of the project. After consent in principle is confirmed, these details will be provided.

**7 (c). Description of objects/materials to be removed from below mean high water springs.**

The ES, Chapter 4 describes all seabed works.

Drilled rock materials will be removed from below mean high water springs and immediately re-deposited on the seabed, as described in Section 7 (a) above.

**7 (d). Method of removal.**

Drilled sockets.

**7 (e). For work involving salt marsh feeding, beach replenishment or land reclamation please provide the following information relating to the material to be deposited.**

(i) quantity (tonnes)

N/A

(ii) nature of material (sand, silt, gravel)

N/A

(iii) source (state location if sea dredged)

N/A

(iv) has the material been chemically analysed?

Yes

☐

No



If **yes**, please include the analysis data with your application.

(v) particle size (including specific gravity)

N/A

**8. Will there be a need to make any temporary deposit of material below mean high water springs during the works?**

Yes



No

☐

If **yes**, please explain why and give the coordinates of the proposed temporary deposit site.



Deployment of anchor blocks by barges during the construction, operation and decommissioning phases with respect to the installation, maintenance and removal of cables, tidal devices and hubs. These would be expected to occur distributed across the whole development site.

**9. Do you intend to apply for a licence to dispose at sea material dredged as part of the works**

Yes ☒

No ☐

If yes, please indicate:

(i) nature of material for disposal (sand, gravel)

Native rock will be removed from the seabed during drilling works and immediately redeposited back to the seabed.

(ii) quantity of material disposal (tonnes)

176,670 m3

**10. Please detail below all consents you have applied for or received**

Type of consent	Applied for	Not applied for	Reference number	Date of issue
i. MMO - Section 36 Electricity Act 1989 Consent (if output is under 100MW).	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
ii. Infrastructure Planning Commission - Development Consent Order (if output is over 100MW).	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
iii. Local planning authority (LPA) such as Town and Country Planning Act 1990	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Name and address of LPA for location of proposed works				
iv. Land owner such as The Crown Estate, Duchy of Cornwall	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
v. Local port or harbour authority such as a local work licence*	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
iv. Environment Agency	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
v. Other including Transport and Works Act Order, Electricity Act, approval to grant/loan sanction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	To be confirmed post submission.	To be confirmed

(please specify)

Transport and Works Act Order will be applied for at the same time at this Marine Licence application. TWAO to include deemed onshore planning consent and Section 36 consent.

\*Consents/Licences should be obtained and a copy included with this application

11. Do you or (if appropriate) your client, have statutory powers to consent any aspect of the project? Yes ☒ No ☐

If yes, please give details below:

Menter Môn Cyf has been appointed as the manager of the Morlais Demonstration Zone (MDZ) by the Crown Estate, including areas inshore for export cable purposes.

## 12. Advertising and consultation

12 (a). Have these works been advertised to the public? Yes ☒ No ☐

If yes, how and where?

Newspaper adverts will be placed in the following publications:

- Lloyds List;
- The London Gazette;
- Holyhead and Anglesey Mail;
- Bangor and Anglesey Mail.

12 (b). Have the public been invited to submit comments? Yes ☒ No ☐

If yes, to whom and by what closing date?

The public have been invited to submit comments to Menter Môn, via a series of mechanisms detailed in the ES, Chapter 6, Consultation, and Appendix 6.1 Consultation Report, paragraphs 41 and 42.

12 (c). Have any consultation meetings with the public been arranged? Yes ☒ No ☐

If yes, where and when are these to be held?

Public Information Days have been held on Holy Island on the dates below:

- First PID 19<sup>th</sup> March 2019;
- Second PID, held over 3 sessions on 11<sup>th</sup>, 12<sup>th</sup>, and 17<sup>th</sup> of June.

In addition, the following have been undertaken:

- Community engagement events and briefings with Community and Town Councillors; and
- Recreation group meetings.

Please continue on a separate sheet if necessary. Please tick this box if you have done this. ☐

## Conservation bodies

13 (a). The consenting authorities have a duty to ensure that projects will not have significant

adverse environmental impacts, particularly upon designated European sites of conservation importance, such as special areas of conservation (SAC), special protection areas (SPA), sites of special scientific interest (SSSI) or Ramsar sites and other areas listed under the Conservation of Habitats and Species Regulations 2017. If the applicant (particularly if they have statutory powers for consenting aspects of these works) has been in consultation with the appropriate nature conservation body natural Resources Wales (NRW), Natural England (NE) or Scottish Natural Heritage (SNH) (for oil and gas work in Scottish waters)) it is likely to hasten processing of the consents if copies of all such correspondence are submitted with the application.

Where the views of NRW, NE, or SNH are not known, the MLT will undertake consultation with the appropriate body about the application. Please provide copies of correspondence with NRW, NE or SNH or indicate below if no consultation has yet taken place.

Extensive consultation with NRW has taken place, including the instigation of technical working groups for key receptors (marine mammals, marine ornithology, and seascape and landscape). Details of consultation undertaken are provided in the ES, specifically in Chapter 6, Consultation and in Appendix 6.1 Consultation Report.

Please continue on a separate sheet if necessary. Please tick this box if you have done this. ☐

13(b). Are any part of the proposed works located within the boundaries of a designated conservation area (SAC, SPA, SSSI or Ramsar sites) Yes ☒ No ☐

13 (c). If yes, which designated site (s) will the works fall within.

North Anglesey Marine SAC; Anglesey Terns SPA; Holy Island Coast SAC; Holy Island Coast SPA. The accompanying ES, Figures 3-2; 9-5; 11-1; 12-1; 19-2 show the sites potentially affected.

13(d). Please provide a description of measures proposed to avoid any impacts on European sites of conservation importance.

Information to inform HRA has been prepared (Document MOR/RHDV/DOC/0067) and accompanies the ES provided in support of this application. The HRA considers potential for Likely Significant Effects upon a series of European sites of conservation importance.

Please continue on a separate sheet if necessary. Please tick this box if you have done this. ☐

13 (e). If no, and the boundary of the nearest such site is within 2 km, please indicate approximate distance of the works from this boundary (in km).

14 (a). Have you considered the works under the Environmental Impact Assessment Directive (Directive 85/337/EEC - as amended) on the assessment of the effects of certain public and private projects on the environment? If so, do you consider the works to fall within:

Annex I ☒ Annex II ☐

14 (b). Have you applied for a screening or scoping opinion from the MLT under the Marine Works (Environmental Impact Assessment) Regulations 2007 (as amended)?

☒ ☐

Yes No

If **yes**, what is the reference?

SC1804

14 (c). Has an environmental statement/assessment been undertaken to support any planning application in respect of the works, your own statutory powers (if applicable) or for any other reason?

Yes

☒

No

☐

If **yes**, is a copy of the assessment included with this application?

Yes

☒

No

☐

14 (d). Please provide an explanation if the assessment has been made and a copy is not available.

☒

N/A

14 (e). Is the environmental assessment available for public inspection?

Yes

☒

No

☐

If **yes**, at what locations?

Locations are:

- **Menter Môn**, Neuadd Y Dref, Buckley Square, Llangefni, Ynys Môn, LL77 7LR
- **Anglesey Business Centre**, Isle of Anglesey County Council, Bryn Cefni Business Park, Llangefni, Anglesey, LL77 7X
- **Holyhead Library**, Newry St, Holyhead, Anglesey, LL65 1LA

## Public Register

**Under section 101 of the Marine and Coastal Access Act 2009, all information contained within or provided in support of this application will be placed on the Public Register unless the Welsh Ministers approve the applicant's reasons for withholding all or part.**

15. Is there any information contained within or provided in support of this application that you consider should not be included on the Public Register on grounds that its disclosure:

15(a). Would be contrary to the interest of national security?

Yes

☐

No

☒

15(b). Would prejudice to an unreasonable degree your, or some other person's commercial interest or those of a third party?

Yes

☐

No

☒

If **yes** to either (a) or (b), please provide full justification as to why all or part of the information you have provided should be withheld.

The two confidential appendices should not be made available to the public.

Both appendices relate to terrestrial receptors of conservation importance and legally protected, for which the location of sites of importance is considered to be sensitive.

## Application Fee

16(a). What are the corresponding fee band for this application? Band 2 ☐ Band 3

This application is Band 3

### 16(b) Band 2 Only

Projects are charged at a fixed fee of £1920. The application will not be processed until the correct fee has been provided.

Please provide the method of payment

Method	Yes (✓)	Reference Number
Cheque		
BACS (not remittance no.)		
World Pay (phone or CC1)		

Please attach CC1 Form with application. Can be found on our web pages

### 16(c) Band 3 Application only

Band 3 applications are charged at on hourly rate of £120 and are invoiced in arrears. Please complete the details below which will be required for invoicing.

Customer Name	Menter Môn Cyf
FAO	Mr Graham Morley
Purchase order number	MOR-1308
Address for invoice	Neuadd Y Dref, Buckley Square, Llangefni, Gwynedd, Ynys Môn, LL77 7LR
Telephone Number	01248 725 700
Email Address	graham@mentermon.com

## Declaration

I declare that to the best of my knowledge and belief that the information given in this form

and related papers is true.

**Warning: It is an offence under the Marine and Coastal Access Act 2009 under which this application is made to fail to disclose information or to provide false or misleading information.**

Signature \_\_\_\_\_

Date 29/10/19 \_\_\_\_\_

Name (in capital letters)

Gerallt Llewellyn Jones

Position in company (if appropriate)

Director

Please check carefully the information you have given and that all the enclosures (including copies) have been included.

## For Official use only

File Reference

Foreshore plan number

Cheque number

Date received

Payee name

Amount Paid

Remittance slip number