

This is a published notice on the Find a Tender service: <https://www.find-tender.service.gov.uk/Notice/006292-2024>

Tender

## **Invitation to Tender - QED-Morlais 76 Tidal Turbine Power Take-Off**

QED Naval Ltd

F02: Contract notice

Notice identifier: 2024/S 000-006292

Procurement identifier (OCID): ocds-h6vhtk-043d3a

Published 27 February 2024, 3:52pm

### **Section I: Contracting authority**

#### **I.1) Name and addresses**

QED Naval Ltd

2nd Floor Office (2/4), 11 Castle Street

Edinburgh

EH2 3AH

#### **Email**

[enquiry@qednaval.co.uk](mailto:enquiry@qednaval.co.uk)

#### **Telephone**

+44 1315578049

#### **Country**

United Kingdom

#### **NUTS code**

UKM75 - Edinburgh, City of

**Internet address(es)**

Main address

[www.qednaval.co.uk](http://www.qednaval.co.uk)

Buyer's address

[https://www.publiccontractsscotland.gov.uk/search/Search\\_AuthProfile.aspx?ID=AA30450](https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA30450)

**I.2) Information about joint procurement**

The contract is awarded by a central purchasing body

**I.3) Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at

<https://qednaval.co.uk/invitation-to-tender-tidal-turbine-power-take-off/>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://qednaval.co.uk/invitation-to-tender-tidal-turbine-power-take-off/>

**I.4) Type of the contracting authority**

Regional or local authority

**I.5) Main activity**

Other activity

Renewable

---

## **Section II: Object**

### **II.1) Scope of the procurement**

#### **II.1.1) Title**

Invitation to Tender - QED-Morlais 76 Tidal Turbine Power Take-Off

#### **II.1.2) Main CPV code**

- 31213300 - Cable distribution cabinet

#### **II.1.3) Type of contract**

Supplies

#### **II.1.4) Short description**

This tender requires the delivery of a single turbine-generator PTO configuration in 2024 for testing before the remaining 2 PTO configurations are delivered to complete the Subhub ID arrangement for subsea deployment. The successful delivery of the tender described in this document could establish a relationship for future plans that include the initial extension from one Subhub ID to a mini-array of five (totalling 5 MW) followed by additional phases to a maximum array size of 30 MW.

#### **II.1.6) Information about lots**

This contract is divided into lots: No

### **II.2) Description**

#### **II.2.3) Place of performance**

NUTS codes

- UKL11 - Isle of Anglesey

#### **II.2.4) Description of the procurement**

QED Naval is an innovative company specialising in tidal energy technology. The company has developed disruptive technology that can be applied globally. This includes our self-deploying, submersible tidal platform, the Subhub Industrial Demonstrator (ID), that is proven to work efficiently and reliably with our subsidiary company Torcardo's horizontal axis tidal turbines.

The Torcardo T-3 is the next generation in Torcardo's turbine series, with the previous

iterations being used in the Oosterscheldekering storm surge barrier. The design prides itself on simplicity and reliability whilst maintaining effective tidal energy capture. The turbine has a 14m blade diameter, a passive bidirectional pitch system, and uses a split winding permanent magnetic synchronous generator.

QED's next generation of Subhub ID will feature 3 of Tocardo's turbine-generator pairs, which will be individually controlled and then combined into a single grid output within the Subhub ID's dry compartments under water.

QED Naval is looking for a supplier to provide the various power take-off circuitry to support this delivery of grid compliant power from the Subhub Platform Control Unit (SPCU) into the National Grid at distribution level.

The solution will accommodate 3 independently controlled T-3 turbines, each with a power rating of 350 kW and generator output voltage of 690 V. Each generator's PTO solution will be housed in a standard double electrical cabinet with dimensions 2000 x 1200 x 600 mm (excluding the shared transformer) if possible. The cabinets will be held within the SPCU. The SPCU consists of two sealed pressure hulls that have an inner diameter of 3 m and a length of 10 m. The solution will be supplied fully assembled and complying with necessary electrical standards. A supporting single line drawing of the complete system should also be provided.

This tender requires the delivery of a single turbine-generator PTO configuration in 2024 for testing before the remaining 2 PTO configurations are delivered to complete the Subhub ID arrangement for subsea deployment. The successful delivery of the tender described in this document could establish a relationship for future plans that include the initial extension from one Subhub ID to a mini-array of five (totalling 5 MW) followed by additional phases to a maximum array size of 30 MW.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in days

30

This contract is subject to renewal

No

#### **II.2.10) Information about variants**

Variants will be accepted: No

#### **II.2.11) Information about options**

Options: Yes

Description of options

Option for 14 more cabinet, subject to the project.

#### **II.2.13) Information about European Union Funds**

The procurement is related to a project and/or programme financed by European Union funds: No

---

## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Open procedure

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: No

### **IV.2) Administrative information**

#### **IV.2.2) Time limit for receipt of tenders or requests to participate**

Date

19 March 2024

Local time

12:00pm

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

#### **IV.2.7) Conditions for opening of tenders**

Date

19 March 2024

Local time

12:00pm

---

## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

### **VI.2) Information about electronic workflows**

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

### **VI.3) Additional information**

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at

[https://www.publiccontractsscotland.gov.uk/Search/Search\\_Switch.aspx?ID=759343](https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=759343).

(SC Ref:759343)

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

QED Marine Project

2F4, 11 Castle Street

Edinburgh

EH2 3AH

Country

United Kingdom