

16th of May 2024

Dear Sir/Madam,

**Invitation to Tender for the Impact of harmonic temporary overvoltages (TOVs) on high voltage (HV) equipment for offshore wind farms (OWF) project for the Carbon Trust's OWA Programme**

You are invited to submit a Tender for the Impact of Harmonic TOVs on HV Equipment for OWF project (the "TOVs project" or "Project") which is part of the Offshore Wind Accelerator (OWA) programme. The key objectives of the Project are:

The development of new methods for mitigating the risk of TOVs in offshore wind farms.

- The development of new screening methods to identify offshore wind farms at risk of TOVs.
- To assess the impact of TOVs with harmonic content on the dielectric and thermal withstand characteristics of HV equipment such as transformers, cables, reactors STATCOMs etc.
- The development of new testing methods to assess the TOV withstand characteristics of HV equipment for OWF (new test waveforms that represent the range of TOVs with harmonic content that can occur in OWF) and to assess the withstand characteristics of LV equipment that has to remain connected when TOV events occur (i.e. to assess the high-voltage-ride-through implications for all connected equipment such as converters)
- The development of new design guidelines for offshore wind farms to mitigate the risk of TOVs.

The Invitation to Tender (ITT) consists of the following documents:

- Description of Tender (this document);
- OWA Stage IV Contractors' Conditions;
- Tender Certificate (Word template);
- Bid Price Calculation Sheet (Excel template);
- Clarification Document (if applicable<sup>1</sup>);
- Project Closeout Form (for information purposes only – no need to complete now); and
- OWA Cost Model Input Sheet (for information purposes only – no need to complete now).

Unless informed to the contrary, tenders and communications shall be sent by e-mail to the following e-mail address: [ciara.ritson-courtney@carbontrust.com](mailto:ciara.ritson-courtney@carbontrust.com)

Tenders must be submitted before 27th of June 2024 @ 12pm. Any tenders received after this date and time will be deemed non-compliant.

Your Tender must consist of the following, the contents of which are described further below:

- Main Bid Document (pdf) – template not provided;
- Signed Tender Certificate (pdf) – template provided; and
- Bid Price Calculation Sheet (xls) – template provided.

The timeline of this procurement process is as follows:

Deadline for clarification questions

31st of May 2024

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<sup>1</sup> A Clarification Document will not be published if no clarification questions are received in relation to this ITT.

Clarification Document published <sup>1</sup>	11th of June 2024
Submission of full Tender	27th of June 2024 @ 12pm
Bidder interviews	~15th of July 2024
Successful Contractor announcement	1st of August 2024
Envisaged Contract award date	1st of September 2024

Please e-mail any clarification questions, including questions about the timing of this ITT, to [daniel.yates@carbontrust.com](mailto:daniel.yates@carbontrust.com) any time before 31st of May 2024. The complete set of clarification questions and all answers to clarification questions will be published in the Clarification Document on our website by 11th of June 2024 and will hence be visible to all potential Bidders: <https://www.carbontrust.com/news-and-events/tenders>

For information about the OWA programme, please see the Carbon Trust's website: <https://www.carbontrust.com/our-projects/offshore-wind-accelerator-owa>

We look forward to receiving your Tender.

Yours sincerely,



Ciara Ritson-Courtney

For and on behalf of **THE CARBON TRUST**