

# Expression of Interest

## Electrical Simulation Studies

### STRICTLY CONFIDENTIAL

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REV.	DESCRIPTION	DATE	BY	CHK.	APP.
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## Abbreviations

Name	Abbreviation
<b>ABO Energy</b>	ABO Energy KGaA and ABO Energy Canada Limited
<b>CAD</b>	Canadian Dollar
<b>CIP</b>	Copenhagen Infrastructure Partners
<b>EOI</b>	Expression of Interest
<b>ESG</b>	Environmental, Social and Governance
<b>EUR</b>	Euro
<b>IET</b>	Department of Industry, Energy and Technology
<b>NDA</b>	Non-Disclosure Agreement
<b>NDT</b>	Newfoundland Daylight Time
<b>RFP</b>	Request for Proposal
<b>TQK</b>	Toqlukuti'k Wind and Hydrogen Limited

## Definitions

**Agreement:** The purchase order and ancillary documents such as the Standard Terms and Conditions of Toqlukuti'k Wind and Hydrogen Limited.

**Bidder:** Qualified Vendor that receives the RFP package and is invited to present a Proposal for this Service.

**Client:** Toqlukuti'k Wind and Hydrogen Limited and its affiliates, CIP and ABO Energy.

**Project:** The Toqlukuti'k Wind and Hydrogen project.

**Proposal:** Bidder's reply to the upcoming RFP.

**Proposal Contacts:**

- Marouane M'haimah – Marouane.mhaimah@aboenergy.com
- Ina Jasmin Neumann - ina.neumann@aboenergy.com

**EOI Submission Deadline:** Monday 6<sup>th</sup> October, 2025, 5:00 p.m. NST.

**Service:** Electrical simulation studies of a GW scale off-grid project

**Vendor:** Consultant or vendor company interested in being evaluated and qualified by the Client to receive the upcoming RFP.

## Note

If your company has already executed an NDA with Toqlukuti'k Wind and Hydrogen Limited and submitted Certificate of Insurances in 2025, you will not be required to re-submit these items as part of this tender opportunity.

**If your company has not executed an NDA with TQK, please fill out and complete a company specific NDA (use template attached in email transmittal) as part of your EOI submission package.**

## 1. Introduction

### 1.1. About Toqlukuti'k Wind and Hydrogen

Toqlukuti'k Wind and Hydrogen Limited (TQK) is proposing to develop a wind-hydrogen project totaling 2500 MW – 3200 MW of wind capacity, located in Newfoundland and Labrador, Canada (the Project).

ABO Energy (*formerly ABO Wind*) submitted this project and was successful as part of the Newfoundland and Labrador government's Department of Industry, Energy and Technology (IET): Crown Land Call for Bids for Wind Energy Projects (Call for Bids).

Toqlukuti'k Wind and Hydrogen Limited is owned by Copenhagen Infrastructure Partners (CIP) and ABO Energy Canada Limited (ABO Energy). CIP, through its Energy Transition Fund (CI ETF I), acquired a majority stake in Toqlukuti'k Wind and Hydrogen in December 2024 from ABO Energy, who will stay actively engaged in the project as minority shareholder and co-developer.

This Expression of Interest (EOI) has been prepared by ABO Energy on behalf of TQK. TQK and its affiliates CIP and ABO Energy, are hereinafter the Client.

### 1.2. About Copenhagen Infrastructure Partners

Founded in 2012, CIP is one of the world's largest dedicated fund manager within greenfield renewable energy investments and a global leader in offshore wind. The funds managed by CIP focus on investments in offshore and onshore wind, solar PV, biomass and energy-from-waste, transmission and distribution, reserve capacity, storage, advanced bioenergy, and Power-to-X.

CIP manages 13 funds and has to date raised approximately EUR 32 billion for investments in energy and associated infrastructure from more than 180 international institutional investors. CIP has approximately 500 employees and 14 offices around the world. For more information, visit [www.cip.com](http://www.cip.com).

### 1.3. About ABO Energy

ABO Energy (formerly known as ABO Wind) successfully develops and builds wind and solar farms as well as battery storage and hydrogen projects. Founded in 1996, the Germany-based company has realized 6.4 gigawatts of renewable energy capacity to date and has built around half of them. The company's annual investment amounts to one billion euros. More than 1,400 employees on four continents work with enthusiasm on the development, planning, financing, construction, operational management, and maintenance of plants for a sustainable energy supply. For more information, visit [www.aboenergy.com](http://www.aboenergy.com).

## 2. Terms and conditions

EOIs are expected to be received by electronic mail, addressed to the Proposal Contacts (Marouane.mhaimah@aboenergy.com / ina.neumann@aboenergy.com), no later than October 06, 2025 at 5:00 p.m. NST (EOI Submission Deadline).

Terms and Conditions for the bidding process as well as the Standard Terms and Conditions for the eventual Agreement will be included in the upcoming RFP.

## 3. Limitations of liability

In no event shall the Client, its employees, contractors, consultants and advisors be liable or responsible for any damages, including but not limited to any direct, indirect, consequential, incidental, general, special or exemplary damages, any economic losses, profit losses, opportunities, expenses, costs or any other losses arising out of, in connection with, or in any way related to, any Vendors' participation in this EOI or any acts, omissions, or errors, including without limitation or negligence of, or in break of contract by the Client. Without limiting the foregoing, expenses or costs incurred by the Vendor in any way related to or associated with the EOI including but not limited to preparing, submitting or evaluating their EOI shall be the sole responsibility of the Vendor and will not be reimbursed by, chargeable to, or otherwise payable by the Client.

## 4. Local and Indigenous Inclusion

The Client is committed to abiding by Full and Fair Opportunities for employment. As such, the Client is committed to sourcing projects from Newfoundland and Labrador and Indigenous businesses by supporting capacity building, joint venture agreements, and community- and Indigenous-owned entities, where possible and when aligned with ABO Energy and/or CIP's standards for Environmental, Social and Governance (ESG) for compliance. As part of your submission, please provide responses to the following prompts, where applicable:

- Are you an Indigenous-owned/partially-owned business entity?
- What percentage of human resources used for the work is local to the province of Newfoundland?
- What percentage of human resources expected to participate in the Project would identify as Indigenous?
- Identify any possible temporary job positions or opportunities available to local community members or Indigenous individuals during the contract.
- Please provide description of any agreements, partnerships or Joint Ventures with an Indigenous community entity or Indigenous Group. Include a description of the benefits that are provided back to Indigenous communities and individuals.

## 5. Confidentiality

The Vendor must keep confidential and not disclose or release for any purpose to any third party all information provided to the Vendor by or on behalf of the Client in connection with the Service or the Project. Vendors are reminded of the terms within the NDA they have executed with TQK.

**If your company has not executed an NDA with TQK, please fill out and complete a company specific NDA (use template attached in email transmittal) as part of your EOI submission package.**

Any subcontractor shall be bound to the same degree of confidentiality as the Vendor.

## 6. EOI objective

The Client is preparing to issue a Request for Proposal (RFP) and looking for future submission of proposals from qualified Vendors, to carry out electrical simulation studies of a GW scale off-grid project entitled Toqlukuti'k Wind and Hydrogen project (the Service).

## 7. About the Service

The focus of this Service consists on setting up a system operating strategy which shall be considered during the electrical simulation studies. Electrical simulation studies shall evaluate the electrical design with regards to grid stability under various operating conditions. Based on the outcome of results of the electrical studies, electrical design shall be optimized considering the tradeoff between grid stability and economic benefits.

This requires iterative simulations. Therefore, strategy for how to handle the number of simulations and evaluation of results shall be defined during the proposal to guarantee efficiency.

The required deliverables are:

- Grid code requirements for wind turbines, batteries, electrolysis, and ammonia plant which will be shared later with preferred OEMs considering state-of-the-art technology plus grid forming capability which secure a stable grid operation of the off-grid project; grid code requirements for superimposed park controller
- Electrical equipment list with explanation when redundancy is techno-economically worthwhile
- RMS (runnable in PowerFactory and PSS/E) and EMT (PSCAD) models which are running stable in steady-state and during contingency events. Both models shall be comparable in their responses, a difference in parameter settings or components must be avoided. The models must be benchmarked against one another
- Any automatization used for running electrical simulations; scripts shall be based on open-source freeware
- Data of simulation results
- PDF Report of simulation studies

## 8. EOI submission contents

The Vendor must provide the following information as part as their EOI submission:

1. Vendor's registered legal business name and any other name under which it carries on business.
2. Vendor's mailing and courier address, telephone and facsimile numbers and email address (please provide both, a physical and mailing address if different).
3. Name, mailing and courier address, telephone and facsimile numbers and email address of the contact person of the Vendor.
4. Information with respect to whether the Vendor is an individual, a sole proprietorship, a corporation, a partnership, a joint venture, an incorporated consortium or a consortium that is a partnership or other legally recognized entity.
5. Vendor is to provide an overview of the following Indigenous participation matters, as well as addressing Section 4 of this EOI:

- a. Joint venture with Indigenous (percent ownership and/or structure of agreement, if applicable),
  - b. Ability and inclusion of Indigenous participants in planning and execution of the Service (percent involvement, number of hours, etc.),
  - c. Corporate Indigenous Inclusion Policy, if applicable.
6. Vendor must provide information demonstrating Vendor's commitment and actions to Diversity, Equity and Inclusion, which may include:
  - a. A Diversity, Equity and Inclusion Plan/Policy,
  - b. Action items that demonstrate inclusion of underrepresented groups in workforce,
  - c. Commitment to targets to increase awareness and demonstrate inclusionary participation in work force.
7. Name(s) of the proprietor, where Vendor is a sole proprietorship, each of the directors and officers where Vendor is a corporation, each of the partners where Vendor is a partnership and applicable combination of these when Vendor is a joint venture.
8. Confirm there is no personal relationship between Vendor or its personnel, directors, officers, agents or subcontractors, and any employee, officer or director of the Client. If there is such a relationship, please provide details.
9. Vendor to provide a general overview of the following Environment, Health and Safety matters:
  - a. Corporate HSE Policies,
  - b. Inclusion of Company's current year Certificate of Insurance demonstrating 5,000,000 CAD Commercial General Liability, Errors and Omissions and Automobile Insurance. If your company has already submitted this item during 2025, there is no need to include it again, but please refer to the opportunity in which you already did.
  - c. Safety performance over the last three (3) years (e.g., number of incidents, near misses),
10. Vendor to provide a general overview of experience in the last five (5) years, rendering similar services to the ones briefly described in Section 7 and water availability field studies, in which the Vendor was the sole contractor or member of a consortium with significant participation in it, mentioning the degree of involvement and a brief description of the tasks carried out. The Vendor must group the experience as to whether the services have been performed in Newfoundland or elsewhere.
11. NDA: Please fill out and complete a company specific NDA (use template attached in email transmittal) if your company has not executed an NDA with TQK yet.

## 9. EOI qualifications

The Client is seeking information from Vendors that qualify them to execute the Service.

There is no set format for a company's response, but we kindly ask the Vendors to maintain the order presented in Section 8. The goal of the EOI is to identify companies that are qualified and capable of meeting required tasks for the upcoming RFP.

In order to qualify for receiving the RFP package, the Vendor shall prove that it meets the minimum qualifications by providing the information requirements of the EOI submission contents (Section 8). Partial submissions or submissions which do not cover all of what is required in this EOI request may not be accepted.

The Client reserves the right to not qualify a Vendor to receive the RFP package, without being obliged to give any reason for this decision.

## 10. Next steps

After the EOI Deadline, the Client will send out the RFP package to the qualified Vendors to launch the bidding process to award the Service which shall be executed by the end of 2025.

## 11. Anticipated Proposals scoring criteria

The purpose of this section is to highlight the future RFP scoring criteria. Those companies that are qualified from this EOI will be subject to this scoring when submitting their Proposals.

The Client will collectively review and evaluate all Proposals. Anticipated scoring will focus on the screening and weighting criteria presented in Table 1:

**Table 1: Anticipated scoring criteria for the evaluation of Proposals.**

Proposals scoring criteria	Weight (%)
Technical offer	30
Proposed Service plan and schedule (provided in a Gantt chart or similar format) The Bidder shall explain how the studies will be carried out to provide the level of detail that would be needed to support a decision by the Client and further activities related to electrical simulation studies Schedule to outline analysis periods, document preparation and review cycles.	10
Experience in performing electrical simulation studies	25
Local team presence / experience and knowledge of Canadian market	5
Price – inclusion of rate sheet, hourly rates / split of professionals.	30
<b>Total</b>	<b>100</b>

The Client will first evaluate the technical Proposals and their ability to comply with the requested Service. All approved Proposals will then proceed to be compared under the scoring criteria. It must be taken into account that the evaluation of the Proposals and its consequent qualification shall be based on the completeness and quality of the information submitted as well as on the assessment of the expertise of the Bidder's personnel.

Any Proposal that, in the opinion of the Client, is not accompanied by sufficient information, a clear explanation of the methods and the philosophies for carrying out the tasks, might be disqualified.