



PetroSA

The Petroleum
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Republic of South Africa
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Our Ref: **RFI 5000005797**

Date: 17 April 2024

All Interested Parties

Dear Sir/Madam,

REQUEST FOR INFORMATION:

**POWER GENERATION SERVICES: REQUEST FOR INFORMATION FROM
RELEVANT INDUSTRY SERVICE PROVIDERS FOR A COMPREHENSIVE
OFFSHORE WIND ENERGY FARM FEASIBILITY STUDY**

CLOSING DATE: 17 MAY 2024 AT 15H00

1. INTRODUCTION

PetroSA is seeking information from industry service providers on a technical and economic study needed for the development of offshore wind energy farms in the Southern and western coastal regions of South Africa.

This Request for Information (RFI) is issued solely for information and planning purposes; it does not constitute a Request for Proposal (RFP), application, or proposal abstract. Respondents are advised that PetroSA will not pay for any information or administrative costs incurred in response to this RFI. All costs associated with responding to this RFI will solely be at the interested party's expense.

Directors:

Group Chief Executive Officer: Mr Xolile Sizani
Group Chief Financial Officer: Ms Nombulelo Tyandela

PetroSA holds several offshore rights and blocks in South African waters within the Exclusive Economic Zone (EEZ). These offshore blocks may be utilized for the development of an offshore wind farm. As an oil and gas company, PetroSA is in a unique position to participate in the South African energy transition through the development of a renewable offshore wind energy program.

PetroSA is currently advancing the initial stages of the development of the offshore wind energy program. Given the lack of offshore wind speed data (from 100 meters upwards) that will support offshore wind energy projects in South Africa, PetroSA is seeking to better understand the needs and limitations or gaps in the market to develop an offshore project.

Through this RFI, PetroSA will use information obtained to inform decisions and actions on the feasibility, scope, and permitting processes for potential offshore wind energy farms. This information will also support PetroSA's efforts to multiuse its offshore assets to diversify its revenue stream and service offerings.

2. SCOPE

To deliver on its strategic plan for the development of offshore wind energy plants, PetroSA is specifically interested in information and cost of a study that will cover the following aspects:

- a) offshore wind spatial planning, technologies, and identification of those most suited for PetroSA's offshore rights and blocks.
- b) approach to making best use of existing offshore infrastructure for electricity generation and transmission from wind energy.
- c) transmission system integration studies and analysis related to offshore wind; and
- d) data analytics models and tools to support offshore wind value-chain and grid integration.
- e) environmental, legal, and regulatory considerations that are consistent with the national energy transition vision.

2.1. Spatial Planning and Offshore Turbine Technologies

Responders of the RFI must make a provision for spatial planning analysis, modelling, and associated critical technical studies for offshore wind development. This analysis must include a wind energy resource analysis, both geophysical and geotechnical characteristics of the offshore environment including the ocean bed, and an avian and marine mammal analysis.

The spatial planning analysis needs to account for existing oil and gas infrastructure, shipping channels, commercial fisheries, and all other infrastructure or activities that take place in southern and western coastal waters. The spatial planning analysis must seek to integrate potential cumulative environmental impacts, future offshore wind impacts on native and migratory avian and marine species, areas of specific concern, and state permitting and regulatory processes.

PetroSA holds 100% of the exclusive rights for exploration in Block 9 & 11A, which is off the southern coast of South Africa, Mossel Bay. The block covers an area of approximately 80,000 km² with water depths ranging from 50 to 200 m. Within this block, there exists a vast network of subsea pipelines, infrastructure, and a processing facility known as the F-A Platform. This facility, which consists of an 8-legged steel jacket located in approximately 100 m of water depth, houses a processing plant ("Topsides") for treatment of the gas/condensate before exporting the products (gas and condensate) to shore.

The offshore infrastructure has a large decommissioning liability associated with it. As part of the study, the study will be required to indicate the method and approach for the re-use of the facility/jacket, if the liability may be offset or its maturity shifted to a later date.

2.2. Electricity transmission planning from offshore wind energy

Responders of the RFI must consider the current state of the onshore coastal electrical grid in Western and Northern Cape provinces including potential

transmission corridors from offshore turbine to land, outline current transmission infrastructure, and existing oil & gas infrastructure. This portion will also estimate the needed capacity headroom for offshore wind growth scenarios.

2.3. Environmental, Legal, And Regulatory Considerations

The study will make environmental and relevant regulatory considerations that are not limited to water depth, ocean currents, wind power density, wind speed, shipping lanes, proximity to shore, marine protected areas, and interaction with the fishing industry.

Furthermore, the study will include an overview of the development and consenting processes for commercial-scale offshore wind production in South Africa. Applicable acts and regulations should be considered and outlined in the study indicating the roadmap for the development of an offshore wind farm.

2.4. Approach and Methodology

Responders of the RFI should provide the approach and methodology recommended to accomplish the potential scope of work described in the preceding paragraphs.

Best practices garnered from previous experience with this scope of work should be described. The responders should provide a list of issues/concerns that were not taken into consideration in the project overview and scope that the responder(s) think is important for PetroSA to consider.

The RFI will enable PetroSA to develop a path to guide offshore wind investments, support and secure necessary supply chains, identify potential opportunities to achieve its strategic objectives and coordinate a network of stakeholders and actions to move the project forward.

3. PROCESS

3.1 Evaluation Process

Proposals that contain the Request for Information (RFI) as stipulated in clause 2 above, will be evaluated and the submission(s) may be used to inform the design of a procurement process. By submitting a proposal, the supplier agrees that the supplier's information may be used. The procurement process will be a three-stage selection process:

- 3.1.1 The *first stage* of the selection process will be the RFI process; responses received will be evaluated to determine whether there is an appetite for the project/s. There will be elimination that will be based on solutions meeting above mentioned detail requirements and resolving business issues.
- 3.1.2 The *second stage* of the selection process is the issue of an RFP. The proposals received at the RFP stage will be evaluated against pre-approved evaluation criteria and Interested Parties will be shortlisted and recommended for the third stage of the selection process.
- 3.1.3 The *third stage* of the selection process is to negotiate with the shortlisted Parties and afford them the opportunity to submit final proposals (if required), which will be evaluated, and the best option will be recommended for final contract(s) negotiations and award.

3.2 Enquiries

Any queries regarding this RFI should be addressed to **Hennie Fortuin** in the Tender Office at e-mail address martinhennie.fortuin@petrosa.co.za

3.3 Request for Information submissions

Interested Parties are required to submit the Request for Information at our secure electronic tender box tenders@petrosa.co.za before the closing date and time of **17 May 2024 at 15:00 CAT**.

The proposal must be submitted in accordance with the requirements stipulated in this document and the listed below:

- Your proposal
- The Returnable Schedule
- Standard Bidding Document (SBD) 4_Annexure A form
- SCM-Bid document SBD1

3.4 Acceptance of Proposals

PetroSA reserves the right to withdraw this Request for Information enquiry at its sole discretion.

3.5 Corporate Governance

In keeping with the principles of good corporate governance, which includes adequate fraud prevention measures as required by the Public Finance Management Act (PFMA), PetroSA has established a toll-free hotline, **No 0800 602 603**, where any act of fraud should be reported. This “whistleblower” facility is managed by an independent company that will ensure the anonymity of the whistleblowers and establish the substance of any allegations made.

3.6 General

PetroSA may issue Bulletins from time to time to clarify certain aspects or to provide additional information on this RFI. It is the Supplier's responsibility to check the procurement website www.procurement.petrosa.com to establish whether any bulletins were issued on this RFI, prior to submitting a proposal.

Yours faithfully,

.....

C Bunting

Group Supply Chain Manager

Annexure A – Evaluation Criteria

ELIMINATION PHASE - PROPOSALS **WILL BE ELIMINATED FROM FURTHER EVALUATION FOR FAILURE TO COMPLY WITH ANY OF THE FOLLOWING**

To deliver on its strategic plan for the development of offshore wind energy plants, PetroSA is specifically interested in information and cost of a study that will cover the following aspects:

- offshore wind spatial planning, technologies, and identification of those most suited for PetroSA's offshore rights and blocks.
- approach to making best use of existing offshore infrastructure for electricity generation and transmission from wind energy.
- transmission system integration studies and analysis related to offshore wind; and
- data analytics models and tools to support offshore wind value-chain and grid integration.
- environmental, legal, and regulatory considerations that are consistent with the national energy transition vision.

CRITERIA	YES/NO
<p>Spatial Planning and Offshore Turbine Technologies:</p> <p>Proposal must make a provision for spatial planning analysis, modelling, and associated critical technical studies for offshore wind development.</p>	<p>Proposal complies with the criteria (Yes/No).</p>
<p>Electricity transmission planning from offshore wind energy</p> <p>Proposal must consider the current state of the onshore coastal electrical grid in Western and Northern Cape provinces including potential transmission corridors from offshore turbine to land, outline current transmission infrastructure, and existing oil & gas infrastructure. This portion will also estimate the needed capacity headroom for offshore wind growth scenarios.</p>	<p>Proposal complies with the criteria (Yes/No).</p>
<p>Environmental, Legal, And Regulatory Considerations</p> <p>The study will make environmental and relevant regulatory considerations that are not limited to water depth, ocean currents, wind power density, wind speed, shipping lanes, proximity to shore, marine protected areas, and interaction with the fishing industry. The study will include an overview of the development and consenting processes for commercial-scale offshore wind production in South Africa.</p> <p>Applicable acts and regulations should be considered and outlined in the study indicating the roadmap for the development of an offshore wind farm.</p>	<p>Proposal complies with the criteria (Yes/No).</p>
<p>Approach and Methodology</p> <p>Proposal should provide the approach and methodology recommended to accomplish the potential scope of work described in the preceding paragraphs.</p> <p>Best practices garnered from previous experience with this scope of work should be described.</p> <p>The responders should provide a list of issues/concerns that were not taken into consideration in the project overview and scope that the responder(s) think is important for PetroSA to consider.</p>	<p>Proposal complies with the criteria (Yes/No).</p>

OBLIGATORY STATUTES AND STANDARDS

TENDERERS MAY BE ELIMINATED FROM FURTHER EVALUATION FOR FAILURE TO COMPLY WITH ANY OF THE FOLLOWING

Are there any connected persons within the Respondent in relation to persons at PetroSA, CEF or DMRE?	Yes/No
Is the Respondent registered on National Treasury CSD (supplier database)? Yes/No	Yes/No