

TA-6734 VIE: Public-Private Partnerships, Private Sector Development, and State-Owned Enterprise Reform- National Energy Specialist on offshore wind study with PVN (54445-001)

 Date Published: **13-Aug-2022** Deadline of Submitting EOI: **19-Aug-2022 11:59 PM Manila local time**
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Profile | **Terms of Reference** | **Cost Estimate**
Selection Profile

Consultant Type	Individual	Source	National
Selection Method	Individual Consultant Selection (ICS)	Technical Proposal	Not Applicable
Selection Title	Public-Private Partnerships, Private Sector Development, and State-Owned Enterprise Reform- National Energy Specialist on offshore wind study with PVN		
Package Number	Package Name	Approval Number	6734
Advance Action	<input type="radio"/> Yes <input checked="" type="radio"/> No	Approval Date	10-Jun-2021
Total Inputs	66 Working Days	Estimated Short-listing Date	29-Aug-2022
Consulting Services Budget	USD 22,872	Estimated Commencement Date	15-Sep-2022
Budget Type	<input type="radio"/> Estimated <input checked="" type="radio"/> Maximum		
Open to non-Member Countries	<input type="radio"/> Yes <input checked="" type="radio"/> No		

Additional Information

Possibility of contract extension **In general, ADB consulting contracts may be extended to a reasonable degree when doing so is justified within ADB's core procurement principles. Any extensions are subject to operational needs, consultant performance, and continued availability of funds.**

Specific considerations for this assignment, if any, are discussed here: **Not known**

Possibility of consideration for downstream assignment Yes No Not known

Country of assignment **Viet Nam**

Country of eligibility for national consultants **Same as country of assignment**

Individuals of ADB member countries who have appropriate authorization to legally reside and work in the country of the assignment do not hold the nationality of that country may also be considered as national consultants.

COVID-19 Related Assignment Yes No

Contact Information

Project Officer **Luong Thi Thanh Ngan**
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CSRN Additional Information / Attachments

Title	Type	Description	Category	Last Updated By	Last Updated	Usage	Update	De
No results found.								

Agencies

Primary	Agency	Country	Agency Role	Contact Person	View De
<input type="checkbox"/>	Ministry of Planning and Investment	Viet Nam	Executing Agency		
<input type="checkbox"/>	Ministry of Finance	Viet Nam	Implementing Agency		
<input checked="" type="checkbox"/>	Viet Nam Oil & Gas Corporation (PetroVietnam)	Viet Nam	Implementing Agency		

Publishing History

Type	Publication Date	Published By	Duration of Advertisement	Deadline	View Rer
Original	13-Aug-2022	Thu Minh Ta	7 DAYS	19-Aug-2022	

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Terms of Reference (Individual Consultant)

 Expertise **National Energy Specialist on offshore wind study with PVN**

 Consultant Source **National Energy Specialist on offshore wind study with PVN**
 TOR Keywords

 Expertise Group **Engineering**
Objective and Purpose of the Assignment

Viet Nam Oil and Gas Group (PVN) is strengthening its strategic responses to increase its contribution of greenhouse gas emission (GHG) reduction, to play its part in the government of Viet Nam's targets in mitigating climate change and to achieve the commitment on net zero emission by 2050 in COP26 in November 2021. A green energy transition strategy is under preparation aiming to shift PVN's operations and value chains to increase climate adaptation in oil and gas exploration and production, petroleum technical services, as well as to expand its businesses into new energy and renewable energy sector. ADB and PVN have a mutual interest in fostering a strategic partnership to promote energy transition development in Viet Nam, with a focus on PVN's Energy Transition Programme including offshore wind power. Specifically, ADB will assist PVN and its subsidiaries to assess opportunities as developers/investors of offshore wind power projects and/or as contractors in the offshore wind supply chain. Based on this assessment, ADB will support PVN to develop an offshore wind power roadmap and prepare an offshore wind power project.

ADB is looking for an international energy specialist and a national energy specialist (the Consultants) to support ADB and PVN in preparing the initial background paper for offshore wind power roadmap preparation and scoping offshore wind power study for investment project preparation.

Scope of Work

Under the guidance of ADB and PVN, the national energy specialist shall work on an intermittent basis for 66 person-days with the scope of work as follows:

- (v) Leveraging the consultant's expertise and on international and regional best practices, review available documentation on Viet Nam's offshore wind sector, including the legal framework, policies and regulations, industry structure and value chain, technical requirements and prerequisite capabilities, case studies, etc. and provide high-level evaluation of Viet Nam's potential in offshore wind;
- (vi) Prepare the initial background paper, offshore wind power roadmap, and PPT presentation;
- (vii) Draft the scope of offshore wind power technical assistance (TA) scope that could lead to the pre-feasibility study and investment project; and
- (viii) Support ADB in conducting consultation meetings with PVN and other stakeholders.

Detailed Tasks and/or Expected Output

The National Consultant shall work with International Consultant to implement the following task but are not limited to:

- Review international and regional best practices and Viet Nam's offshore wind power sector from the legal framework, policies and regulations, industry structure and value chain, technical requirements and prerequisite capabilities, case studies, etc;
- Review PVN and Viet Nam's potential, target, and barriers to energy transition in offshore wind power;
- Based on available studies, documentation, and mesoscale wind mapping and time-series data sets derived from different appropriate reanalysis data sets (e.g. MERRA-2, ERA-5), combined with any available measurements from masts and other ground-based devices provided through PVN, the Consultants will identify a list of options for offshore wind power investment projects in Viet Nam, which can be developed by PVN as demonstration projects. The mesoscale data will be purchased by the international energy specialist at an ADB's approval and to be reimbursed. The reanalysis source data used is itself synthesised from diverse data sources (e.g. weather balloons and ground-based measurements), as well as satellites. At least the following information should be included in the list of options: tentative location (province or area), wind data collection from Satellite and another available source, capacity (MW), generation (MWh), technologies, length of transmission line (km), voltage (kV), connection point, investment cost (million US\$), preliminary Levelized Cost of Energy (LCOE), economic and financial indicators, financial viability, benefits, risks and opportunities, ranking. The site screening and selection will include a fatal flaw analysis;
- Suggest a few options for offshore wind power supply chain projects for PVN in Viet Nam;

- Prepare the PPT to discuss the offshore wind power site selection, investment projects and supply chain projects;
- Conduct consultations with relevant stakeholders including ADB, PVN, the Ministry of Industry and Trade (MOIT) and the Committee for Management of State Capital at Enterprises (CMSC), etc;
- Finalize the proposed offshore wind power investment project(s) and the offshore wind power supply chain projects for PVN in Viet Nam;
- Preparation of a roadmap for PVN engaging in the offshore wind power industry;
- Prepare a draft project proposal (concept note) for the proposed offshore wind power investment project (s). It is a desk-based study without any site survey and measurement. PVN shall use the draft project proposal to consult with relevant authorities (such as MOIT, CMSC, etc.) to allow PVN to prepare the investment project as the current regulations (such as the inclusion of the proposed project into the national power development planning, approval of investment policy document, feasibility study, technical design). It might require consultations with ADB, PVN, MOIT, CMSC, and the local authorities in the project province; and
- Draft the offshore wind power TA scope between ADB and PVN (investment project scope, list of activities, cost estimate, timeline) and terms of reference (TOR) that could lead to the Phase II pre-feasibility study and detailed feasibility study. In this process, the Consultant shall work with ADB, PVN, MOIT, and CMSC.
- Execute written and verbal translations of key documents, information and project-related communication between the team members and stakeholders. Since this may be a frequent and intermittent requirement during the project and a fast turnaround will be appreciated by other team members, a high level of availability and flexibility throughout the project will be essential.
- If required, participate in on-site meetings with PVN for data gathering or other project-related requirements. These would be subject to appropriate travel requests and cost approvals from the international energy specialist and ADB, according to policy.

Minimum Qualification Requirements

Minimum Qualification Requirements for the national energy specialist:

- (vii) A university degree in energy or financing or other related fields;
- (viii) At least 5 years of directly relevant professional experience in wind power, energy transition, and financing;
- (ix) Working experience in Viet Nam's energy sector is required;
- (x) Experience working with the international donors (ADB, WB, KfW, etc.) will be an advantage;
- (xi) Fluency in English with excellent writing and communication skills; and
- (xii) Strong interpersonal skills to develop effective working relationships with the counterpart agencies and other key stakeholders.

Minimum General Experience **5 Years**
 Minimum Specific Experience (relevant to assignment) **5 Years**
 Regional/Country Experience **Required** **Desired** **Not Required**

Deliverables

Details	Name	Type	Estimated Submission Date
+ Show	Background Paper (10 pages)	Report	30-Sep-2022
+ Show	Draft PPT material	Report	20-Oct-2022
+ Show	Draft report of site selection for offshore wind power project(s) (60 pages)	Report	15-Nov-2022
+ Show	Draft project proposal (20-30 pages)	Report	15-Dec-2022
+ Show	Draft TA scope and its terms of reference for consultant services for Phase II study	Report	15-Jan-2023
+ Show	Final Documents after reflecting on all comments	Final Report	28-Feb-2023

Schedule and Places of Assignment (chronological and inclusive of travel)

Schedule Type **Continuous** **Intermittent**
 Max. Working Days/Week Home Office **5** Field **6**

City and Country	Working Days	Estimated Start Date	Estimated End Date	Other Details (use if place selected is Others)
Home Office, Other	54	15-Sep-2022	31-Jan-2023	
Other City, Viet Nam	12	01-Feb-2023	28-Feb-2023	Tentative field travel in Viet Nam
Total	66			

Express Interest

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Cost Estimate

Cost Items	Amount in USD
Remuneration and Other Expenses <small>All activities and inputs in the TOR but not limited to remuneration, per diem, air travel, miscellaneous travel expenses, report preparation, production, and transmission, land transportation, communications, etc.</small>	21,780
Contingency	1,089
TOTAL	22,869

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