

Wind Energy Development in Indonesia: Investment Plan



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1. Background

I. Southeast Asia Energy Transition Partnership

1. The Southeast Asia Energy Transition Partnership (ETP), is a five-year, multi-stakeholder platform that aims to accelerate the energy transition in Southeast Asia towards 2025. ETP program delivery is expected to contribute to the achievement of the UN's Sustainable Development Goals (SDGs) and the 2030 Paris climate goals by bringing together the Governments, Development Partners, and Philanthropies.
2. ETP aims to empower its partner countries towards an energy system that ensures environmental sustainability, economic growth, and energy security. To achieve this goal, ETP will mobilise and coordinate the necessary technical and financial resources to create an enabling environment and address impediments to renewable energy (RE), energy efficiency (EE), and sustainable infrastructures in the region.
3. ETP also aims to deliver joint action, improved coordination, and dialogue to accelerate the energy transition in the region through its four pillars, e.g., aligning policy with climate commitments, de-risking RE and EE investments, expanding sustainable and resilient infrastructures, and knowledge and capacity development.
4. ETP Members have come together to fund ETP to (1) support an improved delivery environment to accelerate the energy transition in Southeast Asia, (2) improve coordination between other relevant initiatives, including capital investments and technical assistance, and (3) to promote communication and knowledge sharing on energy transition among stakeholders in the region.
5. ETP is initially focusing on Indonesia, the Philippines and Vietnam, which are the countries in the region with the highest energy demand, a substantial pipeline for fossil fuel-based projects, and significant and cost-effective potential for renewable energy and energy efficiency. ETP provides High-Level Technical Advisory Support, Holistic Support to Governments on financing and technical needs, capacity and skill development, and facilitation of dialogues in all related areas.
6. A Secretariat, incorporated into UNOPS will support the Steering Committee (SC) and facilitate the implementation of SC's decisions. The Secretariat will operate as per defined Terms of Reference approved by the SC. The Secretariat will undertake day-to-day management and operation of the ETP Fund: (1) it launches Calls for Proposal and carries out proposals assessments; (2) it provides assistance and support to implementing partners; (3) facilitates the design, development, and implementation of an overall M&E strategy; (4) monitors the progress made by each project during the implementation phase.

II. Project Background

7. Indonesia has set the targets for emission reduction and Net Zero Emissions by 2060 or sooner. By 2025, the share of renewable energy is targeted at 23% with an electrification ratio up to 100% in

2022. Wind, as a significant resource derived from Indonesia's topography and geography, is the second-biggest renewable energy source in terms of estimated potential alternative energy source to help the country achieve the national energy mix target. The wind energy resource potential in Indonesia is currently about 154,878 MW¹. Yet, the utilisation of wind energy in the country is lagging behind its potential, with an installed capacity of around 147 MW. Limited availability of information on the wind data and its energy potential is deemed as one of the key challenges in accelerating the development of wind energy power plants in Indonesia.

8. ETP conducted a Wind Technical Working Group (TWG) in February 2022. The TWG brought together the public and private sector to explore the current state of play with regards to the Indonesian wind power sector. It was determined through that meeting that ETP would proceed with technical assistance aimed at driving the wind sector forward, through a combination of coordination efforts and technical studies.

2. Project Details

III. Objectives of the Project

9. The objectives of this study include to:
 - a. gather, stocktake and compile previous studies and work with regards to the wind sector in Indonesia.
 - b. determine a stepwise roadmap for the development of the wind sector in Indonesia.
 - c. consolidate a selection of suitable sites with the highest potential for wind energy development (referring to the potential sites stated on PLN Electricity Business Plan/RUPTL and from the reference studies available, e.g. from MEMR, and other agencies).
 - d. analyse the suitability and quality of selected sites for installation and long-term operation of a commercially viable wind power project
 - e. identify and develop a comprehensive report listing potential financing sources to support the pilots and requirements to access such financing.
 - f. inform improved policies and regulations and create a favourable business climate to attract investments
10. The overarching outcomes of this study are to:
 - a. Establish a wind sector development roadmap to guide the sectors development, highlighting gaps and impediments and offering a systematic approach that can be adopted by all stakeholders
 - b. Encourage informed decision-making on the development of wind energy in Indonesia
 - c. Streamline the permitting and regulatory processes for wind project development

¹ Indonesia Wind Energy Potential Map, P3TKEBTKE (2021)

- d. attract donor and business investment through provision of preliminary feasibility analysis.

IV. Deliverables under the Project

11. The study will cover site selection (based on the potential sites stated on PLN Electricity Business Plan/RUPTL focusing in Jamali system (Sukabumi, Yogyakarta, and Tuban) and Sumatera system (Aceh Besar and Padang Sidempuan), de-risk projects sufficiently to allow subsequent feasibility studies to be conducted and prepare an action plan to develop wind energy generation, focusing on the on-shore developments, in the regions of high potential across Indonesia. The result will be delivered and promoted to the government and private investors as well as made available for easy access as public information to encourage investment in wind energy potential usage in Indonesia.
12. It is expected that the consultant will have a strong and permanent on ground presence in Indonesia. Whilst it is accepted that international consultants will be involved in the project, the project lead should be based in-country, and sufficient resources should be assigned in order that in-person stakeholder engagement can occur.
13. All deliverables will first be submitted in English, with translation to Bahasa required after the reports have been finalised. Each deliverable will be submitted in publishable report format, and will be accompanied with a catchy powerpoint presentation.
14. The study will conduct key activities as follows.

Inception Report

15. The consultant will prepare a detailed inception report detailing the project plans, ensuring the expectations of ETP are aligned with the understanding of the project from the consultant. The inception report will contain, as a minimum:
 - a. Introduction and project background
 - b. Scope of Services
 - c. Methodology and Workplan, including approach, methodology and project gantt chart
 - d. A detailed approach as to how each deliverable will be met and what each submission will contain
 - e. Mapping of key stakeholders and outreach/ communications and a donor coordination strategy
 - f. Project management inclusive of organisational chart detailing key personnel, their roles and responsibilities, as well as their locations (in country project management is expected)
 - g. Risks, mitigations and assumptions
 - h. Monitoring and Evaluation Framework, presented in the form of the ETP Results Based Monitoring Framework (RBMF)

Wind Power Technical Working Group (TWG)

16. The consultant will set up, manage and convene a Wind Power Technical Working Group (TWG) bringing together all key stakeholders relevant to wind power development. The TWG will be under the guidance of the Government of Indonesia, and will seek to integrate with other coordination platforms such as FIRE. The consultant will have the responsibility of:
 - a. Preparing a list of invitees inclusive of government, development partners and private sector stakeholders
 - b. Issuing invites, agendas, and organising appropriate speakers
 - c. Minuting meetings and circulating minutes and shared presentations and documents
 - d. Hosting events in a hybrid manner, at a minimum frequency of one every 3 months. Include supporting events' logistics with these considerations:
 - Minimum 6 hybrid TWGs
 - Meeting room, translation, refreshments for 20 pax without lunch
 - Online access via Zoom/Teams etc

Component 1 Stocktake and Sector Development Roadmap

17. Design an action plan that clearly defines priorities of actions, timeline, and key stages to deliver a successful wind energy development in Indonesia
18. Specific deliverables under this component include
 - a. Working closely with the government, development partner agencies, and related stakeholders (association, academician, etc) through various types of engagement such as Focus Group Discussion (FGDs), in-depth interviews, public consultation, and expert review.
 - b. Reviewing previous initiatives and the collation of work done by Gol and development partners.
 - c. Performing secondary data collection and analysis
 - d. Conducting comparative studies
 - e. Preparation of a document library and summary reports, the document library serving as a depository throughout the project
 - f. Preparation of a stepwise roadmap to the development of the wind sector which will be widely shared and endorsed by Gol

Component 2 Permitting Assessment and Regulation Development Support

19. **Permitting Requirement Review:** This entails a review of the permitting requirements (including land clearance issue), costs and timing to secure permits to develop and operate a wind facility on the site. The consultant is expected to assess the current status and barriers in the permitting process and to engage with relevant stakeholders to support the upgrade and development of such policies. The output will be an analysis of the current conditions and set of detailed recommendations, including proposed analysis and upgrade of current policy and regulation, in order that if implemented, the barriers posed through permitting and regulations would have been removed.

Component 3: Wind energy potential mapping, gap analysis and site selection

20. Completion of component 3 will result in wind profile assessment to provide the justification for defining the specific site areas, project next steps and a highlighting of the gap in available data. This includes the wind turbine and balance of plant, substation, interconnection, roads and access. Specific deliverables under this component include:
- a. **Wind profile assessment:** Compile all available wind resource data currently available and determine the scope required for further studies. The collected wind data is to be correlated with long-term off-site wind data sources (with the annual minimum average wind speed of 6 m/s), and an estimate of the probable average annual energy produced by a wind project. The output will be the determination of suitable sites that would lead to techno-economically feasible wind projects, as well as a gap analysis highlighting the further studies needed before they are considered derisked. This is expected to include a selection of sites that would require met-mast installation, amongst other survey work.
 - b. **Utility Interconnection and Transmission Feasibility** Assessment of the likely interconnection scheme for the project, the available capacity, and the timing associated with this approach.
 - c. **Construction Assessment** Construction costs and time will be assessed based on visual inspection and available data for geotechnical considerations.
 - d. **Technology Selection & Evaluation** This activity will include the evaluation of potential wind turbine technologies that would be suitable to the wind resource and site conditions, and that are economically well suited to the location and market conditions. This activity also includes selection of the technology, expected capital costs, installation costs, and operating costs.
 - e. **Economic Feasibility Analysis** An economic model will be prepared to incorporate an estimated income, capital costs, and operating costs.
 - f. **Overview of social and environmental impact assessment** General assessment of likely impact of the project to the environment and social configuration.
21. Whilst this component is mainly a desk review of available literature and a consolidation and analysis of collected data, it would also be required that the consultant make field visits and factor such costs into the proposal, as well as the costs for any data acquisition.

Component 4 Investment Opportunities Guide for Indonesian Wind Projects and Access to Finance Report

22. Component 3 builds on and pulls together Component 1, 2 and 3 consolidating findings and further developing technically, into a publishable report that will serve as a guideline to investment in the Indonesian Wind Sector. It will result in the presentation of multiple wind sites, listing their potential and assessing against available data the techno-feasibility and development maturity of each. The report will list details of various potential sources of finance and the methods to access such finance. The report should be written with both SOEs and Private Sector in mind. The output

will serve as a guide for potential investors, demonstrating multiple derisked projects and proposed pathways to take the projects forward. The report will include, but not be limited to:

- a. **List of Wind Projects** detailing status, investment attractiveness and next steps in order to develop further, drawing on Outputs of Component 2
- b. **Permitting processes** A chapter detailing the permitting process as determined through Component 3
- c. **Financing Options** A list of potential sources of finance and methodologies on how to access such sources.

V. Existing Support and Programmes

23. There are various development partners conducting activities related to wind. Amongst others, the list below are some examples of the development partners activities:

- a. United Nation Development Programme (UNDP) supports widespread application of Wind Energy Power Generation (including WHyPGen) in Indonesia
- b. Global Wind Energy Council and Indonesia Wind Energy Association conduct study on wind energy potential in Indonesia
- c. Asian Development Bank, Leading Asia's Private Sector Infrastructure Fund, and the Canadian Climate Fund for the Private Sector in Asia II conduct the development of Tolo Wind Power Project, Jeneponto, South Sulawesi with Vena Energy as the Independent Power Producer.
- d. Indonesia Infrastructure Finance and PT UPC Sidrap Banyu Energy conduct the development of Sidenreng Rappang (Sidrap) regency, South Sulawesi province.
- e. The French Development Agency (AFD) and PLN jointly develop Banten Wind Farm Power Development in Pandeglang (Banten).
- f. Denmark on PPA preparation and grid study
- g. GGGI on Health, Safety, and Environment

VI. Beneficiaries & Impact

24. Table 1 summarizes the beneficiaries of this study and their potential impacts.

Table 1. Project Beneficiaries and Impact

Beneficiaries	Type of Benefit	Impact

Government of Indonesia (GoI)	Direct	This study will support the government in achieving electrification, Net Zero Emission, and energy mix targets
	Indirect	This study will encourage investment in wind energy potential usage in Indonesia
Ministry of Energy and Mineral Resources	Direct	This study will contribute to achieving the Renewable Energy target and support the effort with the wind energy investment Roadmap focusing on the on-shore potential development.
Ministry of National Development Planning	Direct	This study will inform 2024 RPJMN by provision of updated data and action plan of wind energy potential.
PLN	Direct	The study will support State Electricity Enterprise's (PLN) dispatch teams in integrating renewable energy into grids by conducting dispatch analyses and integration studies
Investors	Direct and Indirect	This study will provide information that allow investors make informed decisions if they want to explore developing wind power projects in these areas
Public	Indirect	This study will encourage increased electrification especially in the selected region.
		This study provides easy-access information related to wind energy potential to the public

VII. Sustainability & Gender Diversity

25. The Project is committed to the promotion, enhancement and development of gender sensitivity of its implementation activities. For cause-oriented groups, the Project shall be inclusive of the invited stakeholders during the consultation, more particularly women's groups. The Project shall also seek gender balance among the officials designated into the working groups. Emphasis shall be given to policy measures that shall not discriminate or marginalise any personalities and groups based on gender.

3. Implementation, Timeline and Deliverables

VIII. Implementation Modality and Arrangement

26. In delivering the study, there will be other stakeholders involved and need to arrange each task accordingly:

- a. The Research and Development Centre for Electricity, Renewable Energy, and Energy Conservation Technology, Ministry of Energy and Mineral Resources (P3TEK-MEMR) is the leading government agency conducting the wind potential mapping and techno-economic analysis of wind power development.
- b. Directorate General of Electricity (DGE)-MEMR, provides the electricity regulation framework, which also can provide technical assistance and data support, especially related to the grid study and national and regional electricity plan, as well as guiding the electricity PPA.
- c. Directorate General of New and Renewable Energy and Energy Conservation (DGNREEC)-MEMR, will facilitate socio-economic support such as the investment permit, land clearance issue, workforce, etc. DGNREEC may also advise the business scheme for the wind power.
- d. The State Electricity Company (PLN) is a vertically integrated electricity company. PLN set out the annual electricity business plan indicating the potential RE electricity development. PLN owns the main control centre managing the various renewable energy supplying the system.
- e. Directorate of Energy Resources, Mineral, and Mining, Bappenas has the role to ensure the renewable energy sources mapping to be included into the national development plan as well as a source to reduce the emissions.
- f. Directorate Electricity Infrastructure, Bappenas, has the role for integrating the electricity infrastructure development into the national development plan and assessing its interaction and impact for the economy and other sectors, e.g. industry, commercial, etc.

IX. Risks and Mitigations

27. In delivering the study, some technical risks may arise. This includes:

- a. Wind data inconsistency due to intermittency. Mitigation measure to address this is coordinating with relevant stakeholders to obtain secondary data to supplement the potential gaps.
- b. Wind profile appraisal apparatus shortage due to limited number of necessary equipment. A way to mitigate this includes dedicated effort for careful planning and equipment usage scheduling

- c. Limited access to study sites. The mitigation measure to approach this risk could include the creation of a priority list containing information about each location, its access profiles, and other relevant indicators.

X. Deliverables and Reporting Timeline

28. The outputs of the Tasks as detailed in V will be reported to ETP in the following formats:

- X.1. **Inception Report:** The Inception Report needs to be delivered 1 month after contract signing.
- X.2. **Milestone Report 1:** The first milestone report needs to be delivered after 4 months of contract signing and provides a narrative summary of the project progress to date, demonstrates completion of Component 1, updates as to the status of the other tasks and includes an update of the Results Based Monitoring Framework. The milestone report will include submissions of all MoM, reporting and presentations from the TWG and other stakeholder engagements.
- X.3. **Milestone Report 2:** The second milestone report needs to be delivered after 7 months of contract signing and provides a narrative summary of the project progress to date, demonstrates completion of Component 2, updates as to the status of the other tasks and includes an update of the Results Based Monitoring Framework. The milestone report will include submissions of all MoM, reporting and presentations from the TWG and other stakeholder engagements.
- X.4. **Milestone Report 3:** The third milestone report needs to be delivered after 13 months of contract signing and provides a narrative summary of the project progress to date, demonstrates completion of Component 3, updates as to the status of the other tasks and includes an update of the Results Based Monitoring Framework. The milestone report will include submissions of all MoM, reporting and presentations from the TWG and other stakeholder engagements.
- X.5. **Milestone Report 4:** The fourth milestone report needs to be delivered after 15 months of contract signing and provides a narrative summary of the project progress to date, demonstrates completion of Component 4, updates as to the status of the other tasks and includes an update of the Results Based Monitoring Framework. The milestone report will include submissions of all MoM, reporting and presentations from the TWG and other stakeholder engagements.

XI. Payment Schedule

Reporting Requirement*	Tentative Time Frame	Payment Percentage
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Inception Report	1 month after project start	10% from the total Lump sum Contract Amount
Milestone Report 1: Completion of Component 1	4 months after the project start	25% from the total Lump sum Contract Amount
Milestone Report 2: Completion of Component 2	7 months after the project start	25% from the total Lump sum Contract Amount
Milestone Report 3: Completion of Component 3	13 months after the project start	25% from the total Lump sum Contract Amount
Milestone Report 4 & Final Report: Completion of Component 4	15 months after the project start	15% from the total Lump sum Contract Amount

*The details of reporting requirements are as described in Section IV Deliverables under the Project and Section X Deliverables and Reporting Timeline.

XII. Indicative Timeline

29. According to the task and study objectives, the duration of the study is 15 months. Table 2 provides a tentative project timeline.

Table 2. Tentative timeline

Activities	M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10	M 11	M 12	M 13	M 14	M 15
Inception report															
Component 1: Stocktake and donor mapping															
Milestone Report 1															
Component 2: Permitting Assessment and Regulation Development Support															
Milestone Report 2															
Component 3: Wind energy potential mapping and site selection															

Milestone Report 3															
Component 4: Investment Opportunities Guide for Indonesian Wind Projects and Access to Finance Report															
Milestone Report 4 & Final Report															
Wind Power TWG meeting (every 3 months)															

XIII. Sustainability & Gender Diversity

1. The Project will adopt sustainability measures and mechanisms to extend the Project's objectives beyond the present administration. These will require stakeholder support, budget allocation from the involved agencies, and adoption of policies to institutionalise the design of the reserve market. The involvement of CMSC officials from the start of the Project is essential to carry over the Project into the next administration. In addition, information and communication of the Project to constituents and beneficiaries shall also secure the commitment of the stakeholders.
2. The Project is committed to the promotion, enhancement and development of gender sensitivity of its implementation activities. For cause-oriented groups, the Project shall be inclusive of the invited stakeholders during the consultation, more particularly women's groups. The Project shall also ensure gender balance among the officials designated into the inter-departmental committee. Emphasis shall be given to policy measures that shall not discriminate or marginalised any personalities and groups based on gender.

XIV. Qualification of the Consultant

A. Company Requirement

1. The organization should have experience in working with government agencies, and intergovernmental organizations. Experience working with related stakeholders in Indonesia is an advantage.
2. The company should have a minimum of 5 years of experience in delivering similar projects in the past with a track-record of success.

3. Offeror must provide a minimum of two (2) customer references from which similar services have been successfully provided, within any of the last 5 years

B. Lead Individual Requirement

1. The lead individual(s) should have the following qualifications (CV should be attached to the application):

a. Education

- i. Master's Degree in Energy Engineering, Economics, renewable energy development and deployment or related field is required. Additional two years of similar experience with a Bachelor Degree is considered equivalent.

b. Work Experience

- i. At least 5-years experience in onshore wind development, permitting, licensing of investments and onshore wind development surveys and related topics
- ii. Significant professional experience in Indonesia is preferred.
- iii. Significant professional experience in Southeast Asia is preferred.
- iv. Experience in training would be an asset.
- v. Previous successful involvement with, and good knowledge of, government, private sector and civil society is desired.
- vi. Knowledge of the political, economic and social situation in Indonesia is desirable.
- vii. Computer literacy in Microsoft packages (MS Word, MS Excel, MS Access, MS Power Point) and GSuite are required and SPSS is an asset.
- viii. Excellent technical skills in energy sector research and programme performance assessment.
- ix. Excellent skills in quantitative and qualitative analysis
- x. Strong communication and facilitation skills, and ability to establish good working relationships with colleagues and stakeholders in a sensitive environment.
- xi. Experience in handling culturally and politically sensitive situations.
- xii. Strong interpersonal and motivational skills and sensitivity to the local environment as well as the ability to work with minimal supervision.
- xiii. Excellent writing and data analytical skills.

c. Language

Fluency in both written and spoken English is essential.
Bahasa Indonesia skills is considered an advantage.

C. Team Requirement

It is estimated that the project team will be approximately 6-8 people and will include the following personnel and qualification. However, the applicant should consider proposing additional resources or expertise that they may require to deliver the project as per the requirements.

No	Key Subject Matter Expert	Education Requirement	Experience Requirement
1	Wind power project development	Masters	5 years
2	Wind power environmental, social impact assessments	Masters	5 years

XV. Evaluation Criteria

A. Eligibility and Formal Criteria

30. The criteria contained in the table below will be evaluated on Pass/Fail basis and checked during Preliminary Examination of the proposals.

Criteria	Documents to establish compliance with the criteria
1. Offeror is eligible as defined in Instructions to Offerors, Article 4. In case of JV, all JV members should fulfill this requirement	<ul style="list-style-type: none"> Form A: Joint Venture Partner Information Form, all documents as required in the Form, in the event that the Proposal is submitted by a Joint Venture. Form B: Proposal Submission Form
2. Completeness of the Quotation. All required Questionnaires (if any), Returnable Bidding Forms, and other documentation requested under the Document Checklist section have been provided and are complete	<ul style="list-style-type: none"> All documentation as requested under Instructions to Offerors Article 10, Documents Comprising the Proposals
3. Offeror accepts UNOPS General Conditions of Contract as specified in Section IV	<ul style="list-style-type: none"> Form B: Proposal Submission Form

B. Qualification Criteria

31. The criteria contained in table below will be evaluated on Pass/Fail basis and checked during Qualification Evaluation of the proposals.

Criteria	Documents to establish compliance with the criteria
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<p>1. The company/consortium should have a minimum of 5 years of continuous experience in delivering similar projects in the past with a track-record of success. In case of a JV, the experience is calculated from the cumulative experience of the JV members</p>	<ul style="list-style-type: none"> • Certification of incorporation of the Offeror • Form F: Performance Statement Form
<p>2. Offeror must provide a minimum of two (2) customer references from which similar services have been successfully provided, within any of the last 5 years. In case of JV, the customer references of JV member can be combined</p>	<ul style="list-style-type: none"> • Form F: Performance Statement Form
<p>3. Project Team Lead must be based in Indonesia</p>	<ul style="list-style-type: none"> • Form D: Technical Proposal Form

C. Technical Criteria

32. Technical evaluation will be carried out to bids that pass the eligibility, formal and the qualification criteria, with requirements as follows:

- The maximum number of points that a bidder may obtain for the Technical proposal is 80. To be technically compliant, Bidders must obtain a minimum of 56 points
- Minimum pass score: 70% of maximum 80 points = 56 points

33. Technical proposal points allocation:

Section number/description		Points Obtainable
1	Offeror's qualification, capacity and expertise	25
2	Proposed Methodology, Approach and Implementation Plan	30
3	Key Personnel proposed and Sustainability Criteria	25
Total Technical Proposal Points		80

Section 1: Offeror's qualification, capacity and expertise	Points	Sub-points
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1	Brief description of the organisation, including the year and country of incorporation, and types of activities undertaken, including relevance of specialised knowledge and experience on similar engagements done in the past. Bidders partnering up with an Indonesian entity to provide for the strategic consultation, translations; as well as the communications expertise is considered a valuable asset. (Max 4 pages written text plus 1 Matrix)	20	
	Experience in projects of comparable size, type, complexity and technical specialty		10
	Experience in providing similar services in the region, especially Indonesia		5
	Understanding of local context, and partnering up with an Indonesian entity to provide for the strategic consultation, translations; as well as the communications expertise		5
2	General organisational capability which is likely to affect implementation: management structure, and project management controls. (Max 4 pages written text)	5	
	1. Management structure, management controls, and extent to which any part would be subcontracted		3
	2. Financial Capacity/financial stability: Bidder should have minimum annual turnover of 350,000 USD in any of the past 2 years. Liquidity / quick ratio should be minimum 1, in any of the past 2 years. In case of a joint venture, annual turnover is calculated based on the total annual turnover of the JV members. In case of a joint-venture, at least one of the JV members should have 1 liquidity/quick ratio in any of the past 2 years.		2
Total points for section		25	

Section 2: Proposed Methodology, Approach and Implementation Plan		Points	Sub-points
1	Description of the Offeror's approach and methodology for meeting or exceeding the requirements of the Terms of Reference	20	
	Description of the offeror's approach to evaluate and address the impediments on the technological aspects of Wind Energy Development (wind potential data and profile assessment, grid and utility assessment, and technology and construction selection and evaluation).		10
	Description of the offeror's approach to evaluate and address the impediments on the non-technological aspects of Wind Energy Development (legal/regulatory and permits assessment, socio-economic and environmental assessments, and financing and investment preparation).		10
2	Quality Assurance	5	
	A plan outlining how the bidder intends to ensure oversight and quality assurance throughout the assignment. Quality Assurance plan should include discussion on risk-assessment and its mitigation plan		5
3	Implementation Timeline	5	
4	Bidder submits a detailed implementation timeline which includes detailed activities to be undertaken during this assignment, and is completed with gantt chart		5
Total points of the section		30	

Section 3 Key personnel proposed and Sustainability Criteria		Points	Sub-points
1	Qualifications of key personnel proposed aligned with the Terms of Reference	20	
	Team Lead		8
	Team Member: Wind power project development		6

	Team Member: Wind power environmental, social impact assessments		6
2	The bidder shall provide a response that demonstrates its commitment to support gender equality through its operations	5	
Total points for section		25	

34. Scoring Matrix for Key Personnel

Title	Minimum Qualification	Preferred experience	Marking	Max points
Team Leader	<ul style="list-style-type: none"> - Master's Degree in Energy Engineering, Economics, renewable energy development and deployment or related field is required. Additional two years of similar experience with a Bachelor Degree is considered equivalent. - Knowledge of the political, economic and social situation in Indonesia is desirable. - Computer literacy in Microsoft packages (MS Word, MS Excel, MS Access, MS Power Point) and GSuite are required and SPSS is an asset.. 	<ul style="list-style-type: none"> - At least 10-years experience in on shore wind development, permitting, licensing of investments and on shore wind development surveys and related topics - Strong interpersonal and motivational skills and sensitivity to the local environment as well as the ability to work with minimal supervision. - Strong communication and facilitation skills, and ability to establish good working relationships with colleagues and stakeholders in a sensitive environment. 	<p>Related Experience:</p> <p>*More than 10 years: 8 points.</p> <p>*9-10 years: 5-7 points.</p> <p>*4-8 years: 3-4 points.</p>	8
Wind power project development	- Master Degree	- At least 5 years experience	<p>Related Experience:</p> <p>*More than 5 years: 6 points.</p> <p>*3-4 years: 4-5 points.</p> <p>*1-2 years: 2-3 points.</p>	6
Wind power environmental , social impact assessments	- Master Degree	- At least 5 years experience	<p>Related Experience:</p> <p>*More than 5 years: 6 points.</p> <p>*3-4 years: 4-5 points.</p> <p>*1-2 years: 2-3 points.</p>	6

D. Financial Criteria (20 maximum points)

35. The financial part of those proposals that are found to be technically compliant will be evaluated as follows.
36. The maximum number of points that a bidder may obtain for the Financial Proposal is 20. The maximum number of points will be allocated to the lowest evaluated price bid. All other prices will receive points in reverse proportion according to the following formula:
- a. Points for the Financial Proposal of a bid being evaluated =

$$\frac{[\text{Maximum number of points for the Financial Proposal}] \times \{\text{Lowest price}\}}{[\text{Price of proposal being evaluated}]}$$

37. Financial proposals will be evaluated following completion of the technical evaluation. The bidder with the lowest evaluated cost will be awarded (20) points. Financial proposals from other bidders will receive prorated points based on the relationship of the bidder's prices to that of the lowest evaluated cost.

Formula for computing points: Example

Points = (A/B) Financial Points
Bidder A's price is the lowest at \$20.00. Bidder A receives 20 points
Bidder B's price is \$40.00. Bidder B receives (\$20.00/\$40.00) X 20 points = 10 points

38. The total score obtained in both Technical and Financial proposals will be the final score for the proposal, with 80% allocated to the Technical proposal and 20% to the Financial proposal. The proposal obtaining the overall highest score will be considered as the winning proposal. This proposal will be considered to be the most responsive to the needs of UNOPS in terms of value for money.
39. The selection of the preferred bidder will be based on a cumulative analysis, analysing all relevant costs, risks and benefits of each proposal throughout the whole life cycle of the services and in the context of the project as a whole. The lowest priced proposal will not necessarily be accepted.

XVI. Result Based Monitoring Framework

40. The Results of the Project are monitored through the following Framework in Table 3. The Implementing Partner will provide input indicators to meet the output expectations of the Project and update the Monitoring Framework through each report.

Table 3. Monitoring and Evaluation Framework

ETP Outcome	Project Output(s)	Indicator	Target	Data Source and Means of Verification
Strategic outcome 2: Increased EE/RE Investment				
Increased flow of public and private investments to RE and EE projects in the power and end-user sectors	Output 1: List of potential wind power projects Output 2: Roadmap of wind power investment	Indicator 1: Potential increase of megawatts through proposed projects Indicator 2: # of investment projects prepared Indicator 3: # of roadmaps developed	Indicator 1: 450MW Indicator 2: 5 Indicator 3: 1	Table and document: Data source: Indonesia wind potential map (P3TEK-MEMR), https://geoportal.esdm.go.id/ Means of verification: To indicate the potential of wind power development and current development plan