Syrian Arab Republic **Ministry of Energy** **Public Establishment for Transmission & Distribution of Electricity PETDE**	**الجمهورية العربية السورية** **وزارة الطاقة** **المؤسسة العامة لنقل وتوزيع الكهرباء**
Request for prequalification (RFQ) **For** **Developers/Sponsors** **Wind farm Of 100 – 200MW** **Independent Power Producer (IPP) Project** **through an internal/external call for offer** **No. 2 /2025**	**طلب تأهيل مسبق** **للمطورين والرعاة الراغبين بتطوير مشروع مزرعة رياح** **باستطاعة تتراوح بين ١٠٠ - ٢٠٠ ميغا وات** **مشروع منتج طاقة مستقل (IPP)** **من خلال طلب عروض داخلي خارجي** **رقم ٢ /٢٠٢٥**

Abbreviations:

A.G.L: Above Ground Level
A.S.L: Above Sea Level
BOO: Build-Own-Operate
BOT: Build-Operate- Transfer
COD: Commercial Operation Date
GOS: Government of Syria
ICB: International Competitive Bidding
IFC: International Finance Corporation
IPP: Independent Power Producer
JV: Joint Venture
LIDAR: Light Detection and Ranging
LUA: Land Use Agreement
MOE: Ministry of Energy
MW: Mega Watt
MEASNET: International Network of Wind Energy Measurement Institutes
Met. Station (Met. Mast): Meteorological Station (Meteorological Mast)
PETDE: Public Establishment for Transmission & Distribution of Electricity
Q&A Meeting: Questions & Answers Meeting
RFQ: Request for Qualifications
RFP: Request for Proposal
RISØ: Danish National Research laboratories
RSD: Remote Sensing Device
SGDM: Syrian General Directorate of Meteorology
SST: Syria Standard Time
SYP: Syrian Pound

First- invitation for Prequalification (RFQ) The Ministry invites developers and sponsors to submit their prequalification applications for the foundation, and operation of a wind farm in one or two sites to be selected from among five potential locations. The total project capacity will range between 100 MW and 200 MW, depending on the characteristics of each site, including wind potential, land availability, and geographical constraints of the selected project locations.	**أولاً- دعوة للتأهيل المسبق (RFQ)** للمطورين والرعاة المهتمين بإنشاء وتشغيل مزرعة رياح في موقع أو موقعين يتم اختيارهما من بين خمسة خيارات (مواقع). باستطاعة تتراوح بين (100 - 200) ميغاواط اعتماداً على ميزات كل موقع مثل الكمون الريحي وتوافر المساحة الكافية من الأراضي والقيود الجغرافية في كل من موقعي المشروع المختارين.

The project will be implemented under a Build-Own-Operate (BOO) scheme through an internal/external call for offer (Request for Proposals - FRP), in accordance with the provisions of Electricity Law No. 32 of 2010 and its amendments, which allows for the purchase of entire energy generated from wind farms.	سينفذ المشروع بنظام البناء والتملك والتشغيل من خلال طلب عروض داخلي خارجي (دعوة لتقديم عروض- RFP)، وفقاً لأحكام قانون الكهرباء رقم ٣٢ لعام ٢٠١٠ وتعديلاته. يسمح هذا القانون بشراء كامل إنتاج الطاقة من مزرعة الرياح.
Second- Overview of the Bidder Selection Process The selection process for the winning bidder will consist of two phases: **Phase One - Request for Prequalification (RFQ):** This phase targets developers and sponsors interested in developing, implementing, and investing in the project. It will result in the shortlisting of qualified bidders based on the qualification criteria outlined in this RFQ document. **Phase Two – Request for Proposals (RFP):** Shortlisted bidders from the RFQ phase will be invited to submit their full proposals. This phase will conclude with the selection of the winning bidder, in accordance with the requirements that will be detailed in the forthcoming RFP document.	**ثانياً- نظرة عامة على عملية اختيار العارض الفائز** تتم عملية اختيار العارض الفائز على مرحلتين: **المرحلة الأولى** مرحلة التأهيل المسبق (RFQ)، تستهدف المطورين والرعاة المهتمين بتطوير وتنفيذ واستثمار هذا المشروع. ستؤدي هذه المرحلة إلى تحديد قائمة المؤهلين لتقديم الطلبات، بناءً على معايير التأهيل الموضحة في وثيقة طلب التأهيل المسبق هذه. **المرحلة الثانية** هي طلب تقديم الطلبات (RFP)، حيث سيتم دعوة العارضين المؤهلين لتقديم عروضهم. ستتوج هذه المرحلة باختيار العارض الفائز بالعقد، وفقاً للمتطلبات التي سوف تحدد في وثيقة طلب تقديم الطلبات (RFP) لاحقاً.
Third- Disclaimers This RFQ does not constitute an agreement between the Public Establishment for Transmission and Distribution of Electricity (PETDE) and the bidders or any other party. It is merely an invitation to demonstrate the qualifications necessary for implementing the proposed project. The purpose of this RFQ is to provide interested parties with preliminary information to assist them in preparing their proposals during the subsequent RFP phase. - This RFQ does not claim to include all the information that bidders may require. Each bidder is solely responsible, at their own expense and risk, for conducting their own investigations and analyses, verifying the accuracy, reliability, and completeness of the information contained herein, and seeking independent professional advice from qualified sources. - Neither PETDE nor their employees make any obligations or warranties regarding the accuracy, reliability, or completeness of the information contained in this RFQ. PETDE shall not accept any claims of any nature, whether financial or otherwise. - PETDE and its employees shall bear no Responsibility towards any bidder or any other party under any applicable law, including contract law, tort liability, or otherwise, for any loss, expenses, or damages that may arise from or be incurred or suffering from in connection with anything contained in this RFQ, or	**ثالثاً- إخلاء المسؤولية** - طلب التأهيل هذا، هو ليس اتفاقية بين المؤسسة العامة لنقل وتوزيع الكهرباء والمقدمين للتأهيل أو أي طرف آخر، بل هو مجرد دعوة لإثبات المؤهلات اللازمة لتنفيذ المشروع المطلوب. ويهدف هذا الطلب إلى تزويد الأطراف المهتمة بمعلومات أولية لمساعدتهم في صياغة عروضهم خلال مرحلة تقديم العروض التالية. - لا يزعم طلب التأهيل هذا، أنه يتضمن جميع المعلومات التي قد يحتاجها المتقدمون. وعلى كل متقدم للتأهيل وعلى مسؤوليته ونفقته الخاصة، إجراء دراساته وتحليلاته الخاصة، والتحقق من دقة وموثوقية واكتمال المعلومات الواردة في طلب التأهيل هذا، والحصول على مشورة مستقلة من مصادر مختصة. - لا تقدم المؤسسة العامة لنقل وتوزيع الكهرباء ولا موظفوها أي تعهد أو ضمان بشأن دقة أو موثوقية أو اكتمال المعلومات الواردة في طلب التأهيل هذا. ولن تقبل المؤسسة بأي مطالبة مهما كانت طبيعتها، سواء مالية أو غير مالية. - لن تتحمل المؤسسة أو موظفيها أي مسؤولية تجاه أي متقدم للتأهيل أو أي شخص آخر بموجب أي قوانين بما في ذلك قوانين التعاقد أو أية مسؤولية تقصيرية أو غير ذلك، عن أي خسارة أو نفقات أو أضرار قد تنشأ عن أو يتم تكبدها أو المعاناة منها فيما يتعلق بأي شيء موجود في طلب التأهيل هذا، أو أي مسألة تعتبر جزءا من طلب التأهيل

any part thereof, or any other information provided by or on behalf of PETDE or its employees, or arising in any way from the project selection process. - PETDE reserves the right, at its sole discretion, to update, cancel, amend, or supplement this announced RFQ at any time and without providing any justification. However, PETDE will notify bidders of any such changes, amendments, or additions. - PETDE shall not be held responsible for validity and accuracy of the wind measurement data provided. It is noted that the data was collected approximately twenty years ago, and the highest wind speed sensor was installed (met. Station) at only 40 meters above ground level (A.G.L). - Qualified bidders are required to verify wind conditions at the project site. Independently—whether jointly or individually—they are expected to conduct a new wind measurement expedition at their own expense and responsibility, as indicated in this document (Article 12).	هذا، أو أي معلومات أخرى مقدمة من قبل أو نيابة عن المؤسسة أو موظفيها، أو تنشأ بأي شكل من الأشكال عن عملية اختيار المشروع. - يحق للمؤسسة، وفقاً لتقديرها المطلق، ودون أي التزام، تحديث أو إلغاء أو تعديل أو استكمال طلب التأهيل المعلن هذا دون إبداء أي أسباب. ومع ذلك ستقوم المؤسسة بإخطار المتقدمين بأي تغييرات أو تعديلات أو استكمالات عليه. - لا تتحمل المؤسسة مسؤولية صحة ودقة بيانات قياس الرياح المُقدمة لهم. ونبين أن هذه البيانات قد جُمعت منذ حوالي عشرين عاماً، وكان ارتفاع أعلى حساس لسرعة الرياح هو ٤٠ متر فوق الأرض فقط. - على المتقدمين (بعد تأهيلهم) التحقق من ظروف الرياح في موقع المشروع. ويُطلب منهم، بشكل مستقل – سواءً كان ذلك بشكل مشترك أو فردي - إجراء حملة جديدة لقياس الرياح على نفقتهم ومسؤوليتهم الخاصة، كما هو مشار إليه في هذه الوثيقة (المادة 12).
Article - 1 Definitions	**المادة ١- تعاريف**
Establishment: Public Establishment for Transmission & Distribution of Electricity **(PETDE)**	**المؤسسة:** المؤسسة العامة لنقل وتوزيع الكهرباء
Project: A 100- 200 MW wind farm representing the total rated installed capacity of wind turbines to be used.	**المشروع:** مزرعة رياح باستطاعة ١٠٠- ٢٠٠ ميغا واط (اجمالي الاستطاعة الاسمية المركبة لعنفات الرياح المستخدمة بالمشروع).
Project sites: Bidders must select one or two sites from the five available options for implementing the project (as per Article 12). The proposed sites are: **First: Qatinah site** which is an open flat area. **Second: Sindianah site** which is an open hilly area. **Third: Alhijana site** which is an open desert area. **Fourth: Ghabaghib Site** which is an open hilly area. **Fifth: Alsukhnah site** which is a high, open, and flat desert area.	**مواقع المشروع:** على المتقدم اختيار موقع أو موقعين من بين الخيارات الخمسة المتاحة لتنفيذ المشروع (حسب المادة ١٢. المواقع المقترحة هي: **أولاً: موقع قطينة**، وهي منطقة مسطحة مفتوحة. **ثانياً: موقع السنديانة**، وهي منطقة مفتوحة تحتوي على تلال. **ثالثاً: موقع الهيجانة**، وهي منطقة صحراوية مفتوحة. **رابعاً: موقع غباغب**، وهي منطقة مفتوحة تحتوي على تلال. **خامساً: موقع السخنة**، منطقة صحراوية وعالية ومفتوحة ومسطحة
Developer: Each entity (whether a single company, consortium, or joint venture) that is interested in the project, and intends to submit a response to this RFQ.	المطور: كل كيان (سواء شركة واحدة أو ائتلاف شركات أو شركة مشتركة) المهتم بالمشروع وبطلب التأهيل المسبق هذا.
Sponsor: A financial entity (such as an investment bank, donor, development finance institution, or equity holder) that willing to invest in the project the sponsor will	الراعي: جهة تمويل (مثل بنك استثماري أو جهة مانحة أو مؤسسة تمويل تنموي أو مساهم) ترغب في الاستثمار في المشروع. يوفر الراعي التمويل، ويضمن الاتفاقيات المالية، ويتحمل المخاطر

provide the funding, secures financial agreements, and bears financial risks associated with the project	المالية المرتبطة بتطوير المشروع.
Bidder: Any developer or sponsor that interested in the project submits a response to this RFQ and seeks to be prequalified for the project	المتقدم للتأهيل: كل مطور أو راعٍ يعبر عن اهتمامه بالمشروع، ويستجيب لطلب التأهيل المسبق هذا، ويقدم عرض تأهيل للتقييم.
Qualified Bidder: A bidder who will be qualified	**المتقدم المؤهل:** هو المتقدم الذي يحقق شروط التأهيل.
The Winning Bidder: The bidder to whom this Call for offers is ultimately awarded.	**العارض الفائز:** هو من يرسو عليه طلب العروض هذا.
Month: A Gregorian month	**الشهر:** هو شهر غري غوري
Day: A Gregorian day.	**اليوم:** هو يوم غري غوري.
Year: A Gregorian year	**العام:** هو عام غري غوري.
Article - 2 Purpose of Request of Qualification To identify experienced developers and sponsors interested in building, owning, and operating a 100–200 MW wind energy project under a Build-Own-Operate (BOO) model, with full electricity output sold to PETDE.	**المادة - ٢ الغاية من طلب التأهيل** اختيار المتقدمين المؤهلين من المطورين والرعاة الراغبين من ذوي الخبرة لبناء وتملك وتشغيل مشروع مزرعة رياح باستطاعة (١٠٠-٢٠٠) ميغا واط على أساس (BOO) وبيع كامل الكهرباء المنتجة للمؤسسة.
Article - 3 Subject of the Request for Qualification This RFQ covers the submission of the qualifications of the developers and sponsors interested in developing the project The project scope includes construction of the necessary substation and connecting it to the national grid at the required voltage level.	**المادة - ٣ موضوع طلب التأهيل** يتضمن تقديم مؤهلات المطورين والرعاة المهتمين بتطوير المشروع ويشمل نطاق العمل تنفيذ محطة التحويل المناسبة، بالإضافة إلى ربط المشروع بالشبكة الكهربائية العامة على التوتر المناسب.
Article – 4 Wind Energy Potential in Syria - In 1989, Syria published the first and only edition of the Syrian National Wind Atlas, a project developed in collaboration between the Syrian general directorate of meteorology SGDM and Denmark's RISØ Institute. Wind speeds were measured at a height of 10m A.G.L from 50 monitoring stations across the country. This data was then extrapolated to a height of 50m A.G.L, enabling the creation of the National Wind Atlas, which categorized Syria into four wind zones. Notably, several areas within the first zone exhibited exceptional wind energy potential. - Between 2004 and 2006, Syria launched the first phase of wind resource assessment through a wind measurement expedition. This involved setting up 17 meteorological stations, each standing 40 meters tall, funded by a European Union grant. The project aimed to conduct preliminary feasibility studies for potential wind farm sites. The findings confirmed that Syria has numerous locations suitable for generating electricity through wind energy projects.	**المادة - ٤ معلومات طاقة الرياح المتوفرة في سوريا** - في عام ١٩٨٩، نشرت سوريا النسخة الأولى والوحيدة من أطلس سوريا الوطني للرياح، وهو مشروع طُوّر بالتعاون بين المديرية العامة للأرصاد الجوية ومعهد ريزو الدنماركي. استفادت المبادرة من بيانات سرعة الرياح المُقاسة على ارتفاع ١٠م، مأخوذة من ٥٠ محطة رصد في جميع أنحاء البلاد. ثم استُقرئت هذه البيانات إلى ارتفاع ٥٠م، مما أتاح إنشاء أطلس وطني للرياح، والذي صنّف سوريا إلى أربع مناطق رياح. والجدير بالذكر أن العديد من المواقع داخل المنطقة الأولى أظهرت إمكانات استثنائية لطاقة الرياح. - بين عامي ٢٠٠٤ و٢٠٠٦، شرعت سوريا في المرحلة الأولى من تقييم موارد الرياح من خلال حملة قياس الرياح. وتضمن ذلك إنشاء ١٧ محطة رصد للرياح، يبلغ ارتفاع كل منها ٤٠م، بتمويل عن طريق منحة مقدمة من الاتحاد الأوروبي. هدفَ المشروع إلى إجراء دراسات جدوى أولية لمواقع مزارع الرياح المحتملة. وأكدت النتائج أن سوريا لديها العديد من المواقع المناسبة لتوليد الكهرباء من خلال مشاريع طاقة الرياح.
- Comprehensive measurement data, collected at heights of up to 40 meters above ground level	- تتوفر بيانات قياس شاملة، جُمعت على ارتفاعات تصل إلى ٤٠ متراً فوق مستوى سطح الأرض، لمدة عامين على الأقل.

(A.G.L.), is available for a minimum of two years. This data serves as a foundation for conducting analyses and preparing a preliminary feasibility study for the wind farm project at the designated site. Additionally, a wind resource assessment study and preliminary feasibility study for the project site, originally conducted in 2005 by a German consulting firm (MVV Decon), are available for review. Upon official submission of the prequalification request, the bidder will gain access to all relevant data, studies, maps, and coordinates pertaining to the project site.	تُشكل هذه البيانات أساساً لإجراء التحليلات وإعداد دراسة جدوى أولية لمشروع مزرعة الرياح في الموقع المُحدد. بالإضافة إلى ذلك، تتوفر دراسة تقييم لمصادر الرياح ودراسة جدوى أولية لموقع المشروع، أُجريت في الأصل عام ٢٠٠٥ من قِبل شركة استشارية ألمانية (MVV-decon)، للمراجعة. عند التقديم الرسمي لطلب التأهيل المُسبق، سيتمكن المتقدم من الوصول إلى جميع البيانات والدراسات والخرائط والإحداثيات ذات الصلة بموقع المشروع.
- **Article - 5 Consultation Meeting** To ensure broad participation from both local and international developers, a pre-bid Q&A meeting will be conducted in a mixed format (personal or virtual attendance). While the meeting will be held in Damascus, bidders will also have the option to attend personally or it will be available the option of virtual attendance for the bidders via live video conference using platforms such as (Zoom, Microsoft Teams, or Google Meet). Additionally, bidders may submit questions via email before and after the meeting. All inquiries and responses will be compiled into a consolidated Q&A response document, which will be published and made accessible to all prospective bidders, ensuring clarity and consistency in the information provided. Virtual attendance will be fully recognized, and no bidder will face any penalties or disadvantages for choosing to participate remotely.	**المادة – 5 اجتماع التشاور:** ○ لضمان مشاركة واسعة من المطورين والرعاة المحليين والدوليين، سيُعقد اجتماع الأسئلة والأجوبة قبل تقديم الطلبات بصيغة مختلطة (حضور شخصي فيزيائي أو حضور افتراضي). حيث سيعقد الاجتماع في دمشق لمن يرغب بالحضور شخصياً وسيتاح للمتقدمين أيضاً خيار الحضور الافتراضي عبر مؤتمر فيديو مباشر باستخدام منصات مثل (Zoom, Microsoft Teams or Google Meet) كما يمكن للمتقدمين طرح أسئلتهم عبر البريد الإلكتروني قبل الاجتماع وبعده. سيتم تجميع جميع الاستفسارات والردود في وثيقة موحدة للأسئلة والأجوبة، والتي ستنشر وتتاح لجميع المتقدمين المحتملين، مما يضمن وضوح المعلومات المقدمة واتساقها. سيتم الاعتراف الكامل بالحضور الافتراضي، ولن يواجه أي متقدم أي عقوبات أو مساوئ لاختياره المشاركة عن بعد.
Article – 6 General Requirements - The Bidder may be a normal or a legal person. - In case the bidder is consisted of a group of (normal persons or consortium), or a joint venture (JV) this participating parties bear responsibilities jointly and severally that comply with the obligations and applicable legal and financial requirements, ensuring transparency and accountability. - PETDE reserves the right to withdraw the Request for the announced Prequalification at any time and without providing any justification. In such a case, no developer or sponsor shall have the right to make any claim arising from this action. However, the cost of purchasing the RFQ document shall be refunded.	**المادة - 6 متطلبات عامة** - يجوز أن يكون المتقدم للتأهيل شخصاً طبيعياً أو اعتبارياً. - في حال كان المتقدم للتأهيل مجوعة أشخاص طبيعيين أو ائتلاف (كونسورتيوم) أو شركة مشتركة (JV)، هذه الأطراف المشاركة تتحمل المسؤولية بالتكافل والتضامن في المسؤوليات والالتزامات القانونية والمالية المعمول بها، بما يضمن الشفافية والمساءلة. - تحتفظ المؤسسة بحق سحب دعوة طلب التأهيل المعلن المسبق دون إبداء أي سبب على الإطلاق، وفي مثل هذه الحالة لا يحق لأي مطور / راعٍ بأي مطالبة ناشئة عن مثل هذا الإجراء، على أن يتم إعادة قيمة إيصال شراء طلب التأهيل.

Article - 7 Preparation of Prequalification Proposals Applications must be submitted in English, with any official local documents provided in Arabic, and delivered to the Registry Office at PETDE in two envelopes. Each envelope must clearly bear the bidder's name and address, and both envelopes must then be placed together in a third sealed envelope. The outer envelope must include the bidder's name, address, phone number, and RFQ reference number. The envelopes must be organized as follows: **7-1: First Envelope – Credentials (Open Envelope)** This envelope shall contain one original copy of the following documents: • A formal application to participate in the prequalification process, affixed with required stamps. • The receipt for the purchase of the RFQ document, bearing the name of the bidder costs 1000$ American dollar. For consortia or (JVs), a certified copy of the consortium (or JV) agreement or a normal people partnership contract (attested by authorized bodies including the chamber of commerce or industry and the Syrian Embassy in the bidder's country), specifying the authorized representative name of the consortium or (JV s) .	**المادة -٧ تحضير طلبات التأهيل** تقدم الطلبات باللغة الإنكليزية والوثائق المحلية باللغة العربية إلى ديوان المؤسسة ضمن مغلفين مكتوب على كل منها اسم المتقدم وعنوانه. ويوضع المغلفين المشار إليهما ضمن مغلف ثالث مختوم يسجل عليه اسم المتقدم وعنوانه ورقم هاتفه ورقم طلب التأهيل. وفق ما يلي: **٧-١ المغلف الأول مفتوح - الأوراق الثبوتية:** ويتضمن نسخة واحدة أصلية مما يلي: • طلب اشتراك بطلب التأهيل ملصق عليه الطوابع المطلوبة. • ايصال شراء إضبارة طلب التأهيل باسم المتقدم بقيمة ١٠٠٠ $دولار أمريكي. بالنسبة للائتلافات أو (الشركات المشتركة)، يجب أن يرفق بالطلب المقدم من ائتلاف شركات (أو الشركة المشتركة) نسخة عن اتفاق الائتلاف (أو الشركة المشتركة) أو عقد شراكة للأشخاص الطبيعيين مصدقة من المراجع المختصة (غرفة التجارة أو الصناعة ومن السفارة السورية في بلد المتقدم) موضحاً فيه اسم الممثل المفوَّض من الائتلاف (أو الشركة المشتركة).
7-2 Second Envelope – Bidder Qualifications (Sealed Envelope) This sealed envelope must contain two copies of the following documents, including one original: **First- Technical Documents Required for Prequalification** The prequalification application must include detailed information regarding the experience of all participating entities in the design, implementation, and investment of similar wind energy projects. Only projects that have reached Commercial Operation Date (COD) will be considered. The bidder must demonstrate relevant experience in performing the following roles: • Lead developer of a wind farm project • Lead contractor for the construction and installation of a wind farm • Lead operator responsible for operation and maintenance (O&M) of a wind farm project	**٧-٢ المغلف الثاني مغلق – مؤهلات المتقدمين** ويتضمن نسختين ممايلي واحدة منها أصلية: **أولاً- الوثائق الفنية المطلوبة للتأهيل** يجب أن يتضمن طلب التأهيل معلومات عن خبرة الجهات المشاركة في الدارسة والتنفيذ والاستثمار لمشاريع طاقة ريحية مشابهة. سيتم النظر فقط في المشاريع التي بلغت تاريخ التشغيل التجاري. يجب أن تشمل خبرة المتقدم في أداء الأدوار التالية: - مطور رئيسي لمشروع مزرعة رياح - مقاول رئيسي للأعمال المتعلقة ببناء وإنشاء مشروع مزرعة رياح - مدير رئيسي لأعمال التشغيل والصيانة في مشروع مزرعة رياح

The technical documents must include the following: **A.** At least one certificate issued by an end beneficiary confirming the entity's experience in developing multiple wind farm projects with a total installed capacity of no less than: • 100 MW for foreign bidders • 5 MW for local bidders **The certificate must specify the type and rated capacity of the wind turbines installed.** **B.** A certificate from an end beneficiary confirming the entity's experience in operation and maintenance of wind farm projects totaling no less than: • 100 MW for foreign bidders • 5 MW for local bidders **C.** A certificate from a recognized environmental authority confirming the bidder's experience in environmental protection and compliance.	**على أن تتضمن الوثائق الفنية ما يلي:** أ. شهادة على الأقل من مستفيد نهائي تثبت الخبرة في تطوير عدد من مشاريع مزارع رياح وباستطاعة إجمالية لا تقل عن: • 100 ميغاواط للعارض الأجنبي. • أو 5 ميغاواط للعارض المحلي. **مع ذكر نوعية العنفات المركبة واستطاعة الواحدة منها.** ب. **شهادة من مستفيد نهائي** تثبت الخبرة في تشغيل والصيانة مشاريع مزارع الرياح بما لا يقل عن: • 100 ميغاواط للعارض الأجنبي • ٥ ميغاواط للعارض المحلي. ت. **شهادة من جهة بيئية معتمدة** تثبت الخبرة في مجال حماية البيئة.
Second: Financial Documents for Qualification The bidder must include detailed information regarding their financial solvency and experience in project financing, including: **A.** Experience in financing renewable energy projects: The bidder must demonstrate prior experience in raising equity or debt from both domestic or international sources. **B.** Documentation from banks with which the bidder has worked, indicating: • Completed projects • The bank's level of involvement • The bidder's prior experience in financing BOO or BOT projects **C.** A statement describing the proposed financing structure for the wind farm project, clearly indicating whether equity, debt, or a combination of both will be used, and specifying the intended sources of funding.	**ثانياً- الوثائق المالية المطلوبة للتأهيل** يجب أن يتضمن طلب التأهيل معلومات عن الملاءة المالية والقدرة والخبرة في تمويل المشاريع، وخاصة: أ. **خبرة في تمويل مشاريع طاقة متجددة: يجب عليه توضيح خبرته السابقة في جمع أسهم الملكية أو الديون من مصادر داخلية أو خارجية.** ب. **تقديم وثائق من المصارف التي عمل معها، تشير إلى المشاريع المنجزة ومستوى مشاركته فيها وتثبت خبرته السابقة في تمويل مشاريع على أساس BOO أو BOT** ج. **تصريح يبين الهيكل المحتمل لتمويل مشروع مزرعة الرياح، وأن يشير إلى مصادر التمويل التي ينوي اللجوء إليها، سواء من حيث قروض أو أسهم الملكية أو الديون.**
Article - 8 Time and Place of Submission 1- Bids must be submitted to the PETDE Registry Office by the date and time specified in the RFQ announcement. 2- Each Bidder may submit only one application. No bid may be withdrawn, modified, or make any amendments once it has been registered at the PETDE registry.	**المادة - 8 مكان وزمان تسليم الطلب التأهيل** ١- يسلم إلى ديوان المؤسسة وذلك في الساعة والتاريخ المحددين في إعلان طلب التأهيل هذا. ٢- لا يقبل من المتقدم إلا طلب واحد، ولا يجوز استعادة الطلب أو إكماله أو تعديله بعد تسجيله في ديوان المؤسسة.

Article - 9 Qualification Proposals Evaluation The proposals will be opened and evaluated in confidential sessions by an authorized committee of PETDE. **9-1 First Stage Verification of Official Documents (Administrative Check)** The first envelope will be opened to verify the bidder's credentials and confirm the completeness of the submitted documents. If necessary, the committee may contact the bidder to request clarification or completion of specific documents. **9-2 Second Stage - Bidder's Qualification** The second envelope of bidders who pass the first stage will be opened to evaluate their technical and financial qualifications. The evaluation will be based on a 100-point scoring system, with every proposal assessed according to the following criteria:	**المادة ٩ تقييم طلب التأهيل** يتم فض ودراسة الطلبات في جلسات سرية من قبل لجنة مفوضة مشكلة من قبل المؤسسة. **9-١ تدقيق الوثائق الرسمية (الأوراق الثبوتية)** سيتم تدقيق محتويات المغلف الأول للعارضين وتقرر قبول الطلب في حال صحة هذه الوثائق، ويجوز للجنة مراسلة المتقدمين لاستكمال بعض الوثائق. **٩-٢ تأهيل المتقدمين** سيتم فض المغلف الثاني للمتقدمين المقبولين شكلاً لتقييم الطلبات لتحديد المتقدمين المؤهلين. ويعتمد تقييم المؤهلات الفنية والمالية للتقدمين على أساس نظام ١٠٠ علامة، وسيتم تقييم كل طلب وفقاً للأسس التالية:

Article-10 Principles of bid evaluation			المادة - ١٠ أسس تقييم الطلبات		
Technical Qualifications	Marks allocated	Total marks allocated: 70 marks	العدد الكلي ٧٠ علامة	العلامة المخصصة	المؤهلات الفنية
		max mark	الحد الأقصى		
1- Number of implemented wind farm projects	Each project will get5	15	15	٥ لكل مشروع	١- عدد مشاريع مزارع الرياح المنفذة
2- Total project capacity	1 for 10 mw above 100 mw	20	20	علامة لكل ١٠ ميغا فوق ١٠٠	٢- الاستطاعة الإجمالية للمشاريع
3- Largest installed turbine capacity	1 for each mw	7	7	علامة لكل ميغا	٣- استطاعة أكبر عنفة مركبة
4- Study company	5	5	5	5	٤- الشركة الدارسة
5- Civil works contractor	5	5	5	5	٥- الشركة المنفذة الأعمال المدنية
6- Mechanical and electrical works contractor	8	8	8	8	٦- الشركة المنفذة الأعمال الميكانيك والكهرباء
7- Connection and control contractor	3	3	3	3	٧- الشركة المنفذة الأعمال الربط والتحكم
8- Maintenance and operation contractor	3	3	3	3	٨- الشركة المنفذة الأعمال الصيانة والتشغيل
9- Environmental expertise	4	4	4	4	٩- خبرة البيئة
		70	70		

Financial solvency and experiences 30 marks		**الخبرات والملاءة المالية ٣٠ علامة**	
B- Experience in securing funding for renewable energy projects		**خبرة في تمويل مشاريع طاقة متجددة.**	
– Experience in financing renewable energy projects: The bidder must demonstrate prior experience in raising equity or debt from both domestic and international sources.	١٥	١٥	- **خبرة في تمويل مشاريع طاقة متجددة: يجب عليه توضيح خبرته السابقة في جمع أسهم الملكية أو الديون من مصادر داخلية أو خارجية.**
– Submitting docouments from the banks he worked with indicating the bidders complited projects and his involvment on the projects clarifing his prior experince in funding the projects on the basis of BOO or BOT	١٠	١٠	– **تقديم وثائق من المصارف التي عمل معها، تشير إلى المشاريع المنجزة ومستوى مشاركته فيها وتثبت خبرته السابقة في تمويل مشاريع على أساس BOO أو BOT**
– **The project potential finance and funding structure**	٥	٥	– **الهيكل المحتمل لتمويل المشروع**

Article 11-Award: 1- All qualification applications that score at least 50 will be accepted, even if the qualified applicant's application is the only one. 2- PETDE will announce the list of qualified applicants and notify them in writing. 3- Within 20 days of written notification, the Winning Bidders must appear at PETDE's offices in Damascus to review the confirm acceptance and submit a letter of intent to bid .	**المادة ١١- إحالة طلبات التأهيل:** ١- تقبل كافة طلبات التأهيل التي تحصل على علامة لا تقل عن ٥٠ علامة، حتى ولو كان طلب المتقدم المؤهل وحيداً. ٢- تعلن المؤسسة عن قائمة المتقدمين المؤهلين وتبلغهم خطياً. ٣- خلال ٢٠ يوم من إعلان قائمة المتقدمين المؤهلين علمهم الحضور إلى مبنى المؤسسة في دمشق لتأكيد قبول الإحالة وتقديم خطاب النوايا.
Article 12-wind Measurement expedition - The shortlisted bidders (qualified bidders), Who submit a letter of intent to bid, will be given access to the site for wind measurement. The qualified bidder will have the option, to participate in a joint wind measurement expedition by independent accredited institutions sponsoring, financed jointly or carry out the wind measurements by his own. - The shortlisted bidders (qualified) are required independently to —either jointly or individually—conduct a new wind measurement expedition at their own expense and responsibility. This expedition must involve an installation and operation of a	**المادة ١٢ حملة قياس الرياح** سيُمنح المتقدمون المتأهلون، الذين يقدمون خطاب نوايا، حق الوصول إلى الموقع لقياس الرياح. ويتاح لهم خيار المشاركة في حملة مشتركة لقياس الرياح، برعاية مؤسسات معتمدة مستقلة، بتمويل مشترك منهم، أو إجراء قياسات الرياح بأنفسهم. - يُطلب من المتقدمين المتأهلين، بشكل مستقل - سواءً بشكل مشترك أو فردي - إجراء حملة جديدة لقياس الرياح على نفقتهم ومسؤوليتهم الخاصة. يجب أن تشمل هذه الحملة تركيب وتشغيل محطة قياس بارتفاع لا يقل عن ٨٠ م أو

meteorological mast (met mast) with a minimum height of 80 meters or a remote sensing device (LiDAR) - The measurement period must extend for at least 12 consecutive months, during which they must gather fundable wind data in accordance with international standards. The collected data must comply with IEC 61400-12-1 and MEASNET requirements. - **Data Sharing Requirement:** To support regional and national planning efforts, the selected bidders must share validated wind resource data during measurement expedition (12 months). Free of charge to PETDE under a confidentiality clause, ensuring its use exclusively for national planning purposes. - The shared data must include all wind data measurement records, assessment methodologies, and any relevant analysis and studies conducted during the project development phase. All submissions shall adhere to agreed data formats.	جهاز استشعار عن بُعد (LIDAR). - - يجب أن تمتد فترة القياس لاثني عشر شهراً متتالياً على الأقل، ويجب عليهم خلالها جمع بيانات رياح قابلة للتمويل وفقاً للمعايير الدولية. بحيث تتوافق البيانات المجمعة مع متطلبات المعيار (IEC 61400-12-1) والـ (MEASNET). - **ضرورة مشاركة البيانات:** لدعم جهود التخطيط الإقليمي على المستوى الوطني، يلتزم المتقدمون المؤهلون بمشاركة بيانات موارد الرياح في المواقع المقترحة خلال حملة القياسات (١٢ شهر) مع المؤسسة بشكل متزامن وبموجب بند السرية، بما يضمن استخدامها حصرياً لأغراض التخطيط الوطني، وبشكلٍ مجاني. - - يجب أن تتضمن البيانات المشاركة، جميع سجلات قياس بيانات الرياح ومنهجيات التقييم وأي تحليلات ودراسات ذات صلة، أجريت خلال مرحلة تطوير المشروع. يجب أن تكون جميع البيانات المقدمة منسقة بالشكل المتفق عليه.
- The shortlisted bidders will receive a formal RFP, three months before the end of the wind measurement period, which have to last, at least 12 months. According to the needs specified by PETDE that attached with the call for bid. -	- سيتلقى المتقدمون المؤهلون الملتزمون بحمل القياسات المشار إليها أعلاه، طلباً لتقديم عروضهم قبل ثلاثة أشهر من نهاية فترة قياس الرياح، والتي يجب أن تستمر ١٢ شهراً، وذلك حسب المتطلبات التي تحددها المؤسسة والمرفقة مع طلب العروض.

Article-13 Attachments to be Completed by bidder	المادة - ١٣ مرفقات مطلوبة من المتقدم
The Qualification Proposal must include the following information to be completed by the bidder.	- يجب أن يتضمن طلب التأهيل المعلومات التالية والتي يجب إكمالها من قبل المتقدم.

13-1 Bidder Letter (Attachment – 1)

To be submitted as a cover letter by the Bidder to the Qualification Proposal.

Date: _____
Address: _____
From: _____
Telephone: _____
Fax: _____

To:
Public Establishment for Transmission and Distribution of Electricity (PETDE)
P.O. Box: _____
Email: _____
Telephone: _____
Fax: _____

TABLE 1 : Organization Details

Subject: Submission of Proposal – Request for Qualification (RFQ) No. [●], dated [●], regarding the development of a 100 MW Wind IPP Project (BOO basis) at the ..... Site.

Dear Sir/Madam,

We are pleased to submit herewith one original and two copies of our qualification proposal, including all required attachments, in response to the above-mentioned RFQ issued by PETDE, for the development of a 100 MW Wind IPP Project (on a Build-Own-Operate basis) with a 20-year duration at the ..... site in Syria.

We hereby confirm the following:

1. This proposal is submitted by **[Organization Name]** ("Bidder") in accordance with the terms and conditions outlined in the RFQ.
2. The Bidder has the legal authority to submit this proposal and to enter into binding commitments related to this project. A certified true and complete copy of the relevant authorization is attached herewith.
3. The Bidder has carefully reviewed and fully understands the requirements of the RFQ and agrees to comply with all its provisions.
4. All information contained in our submission is, to the best of our knowledge, true, accurate, and complete in all material respects. We undertake to promptly inform PETDE of any fact that could render any portion of our submission misleading or inaccurate. We acknowledge that any material misrepresentation may result in disqualification from the tender process.
5. The Bidder meets all legal, technical, and financial eligibility criteria as specified in the RFQ.
6. **Mr./Ms. [Full Name, Title, Contact Information]** is hereby designated as the Bidder's authorized representative for this RFQ. In the event of their unavailability, **Mr./Ms. [Alternate Full Name, Title, Contact Information]** is designated as the alternate representative. The representative is fully authorized to provide information, respond to queries, and enter into binding commitments on behalf of the Bidder.
7. The Bidder understands and accepts that PETDE reserves the right to disqualify any Bidder on the grounds of national interest, security, or public policy.

Sincerely,

For and on behalf of [Organization Name]:
Signature of Authorized Representative: _____
Name: _____
Title: _____

Item	Description	Information		
1	Bidder organization	Single company	".."	Please check the appropriate box by "yes" or "no"
		Consortium	".."	
2	Official communication address			
3	Official communication telephone number:			
4	Official communication fax number:			
5	Official communication email address:			
6	Name of contact person authorized for the project:			
7	Authorized person's contact address:			
8	Authorized person's telephone number:			
9	Authorized person's fax number:			
10	Authorized person's email address:			

13-2 Detailed Information About the Organization (Attachment – 2)

Note: If the bidder is a consortium or JV, they must add or remove columns depending on the number of member entities.

TABLE 2				
Item	**Description**	**Single company**	**Consortium or JV**	
1	Bidder organization, depending on its nature.	Company name:	Name of leader	Name of other member(s), if any
2	Country of registration/ incorporation			
3	Address			
4	Telephone number			
5	Fax number			
6	Email address			
7	Contact person address			
8	Contact person telephone number			
9	Contact person fax number			
10	Contact person email address:			
11	Share (%) in the total equity of the project.			

13-3 Bidder Projects Experience (Attachment – 3)

Table 3: Bidder (Consortium member or JV member) Projects Experience

Bidder (Consortium member) projects experience				
No.	**Description**	**Number of projects**		
		Total	**Inside Bidder/member country**	**Outside Bidder/member country**
1	Number of executed BOO-BOT projects			
2	Number of executed power projects			
3	Number of executed wind park projects			
4	Number of executed BOO-BOT power projects			
5	Number of executed BOO-BOT wind park projects			

Note: Bidder/Member must complete this table **separately for each project completed**

Table 4: Bidder (Consortium member or JV member) BOO-BOT Project Experience

Bidder (Consortium member or JV member) BOO-BOT project experience		
Name of Bidder / Consortium member or JV member		
No.	**Item**	**Description**
1	Name of Project	
2	Name of Owner (Operator)/Investor	Include contact person, address, telephone, fax, and email address
3	Name of Client	Include contact person, address, telephone, fax, and email address
4	Date of Award of Project	
5	Total Capital Cost of project	
6	Value of Contract	
7	Role of Bidder/Member in the project	e.g., Lead Developer, Lead Contractor, Shareholder, O&M Lead
8	Key tasks/services performed by Bidder/Member	
9	Duration of Construction Period	
10	Bidder/Member's Share (%) in Project Equity	
11	Number of Years of Successful Operation	
12	Principal Equipment Manufacturers	
13	Financing Institutions or Companies	
14	Any Additional Information	

Note: Each Bidder/Member must complete this table separately for each completed project.

Table 5: Bidder (Consortium member or JV member) Power Projects Experience

Bidder (Consortium member or JV member) Power Projects Experience		
Name of Bidder / Consortium member or JV member		
No.	**Item**	**Description**
1	Name of Project	
2	Name of Owner	Include contact person, address, telephone, fax number, and email address
3	Project Location	
4	Rated Capacity of Units	
5	Date of Project Award	
6	Total capital Cost of Project	
7	Value of Contract	
8	Role of Bidder/Member in Project	(e.g., Lead Developer, Lead Contractor, Shareholder, or O&M Manager)
9	Key Tasks/Services Performed by Bidder/Member	
10	Construction Duration	
11	Share in Project Equity (%)	
12	Years of Successful Operation	
13	Commercial Operation Date (COD) of Each Unit	
14	Principal Equipment Manufacturers	
15	Financing Institutions or Sponsors	
16	Any Additional Information	

Note: A separate form must be filled for each completed project.

Table 6: Bidder (Consortium member or JV member) Wind Park Projects Experience

Bidder (consortium member or jv member) wind park projects experience		
Name of Bidder / Consortium member or JV member		
No.	**Item**	**Description**
1	Name of Project	
2	Name of Owner	Include contact person, address, telephone, fax number, and email)
3	Location of Wind Park	
4	Total Capacity of Wind Park	
5	Wind Turbine Type	
6	Rated Capacity of Units	
7	Date of Project Award	
8	Total Capital Cost of Project	
9	Value of Contract	
10	Bidder/Member Role in Project	e.g., Lead Developer, Lead Contractor, Shareholder, or O&M Manager
11	Key Tasks/Services Performed by Bidder/Member	
12	Construction Duration	
13	Share in Project Equity (%)	
14	Years of Successful Operation	
15	Commercial Operations Date (COD)	
16	Principal Equipment Manufacturers	
17	Financing Institutions or Sponsors	

18	Any Additional Information	

Note: A separate form must be filled for each completed project.

Table 7: Bidder (Consortium member or JV member) BOO-BOT Power Projects Experience

Bidder (Consortium member or JV member) BOO-BOT power projects experience		
Name of Bidder / Consortium member or JV member		
No.	**Item**	**Description**
1	Name of Project	
2	Name of Owner (Operator)/ Investor	Include contact person, address, telephone, fax number, and email)
3	Name of Power Purchaser	Include contact person, address, telephone, fax number, and email)
4	Rated Capacity of Units	
5	Date of Award of Project	
6	Total capital Cost of Project	
7	Value of Contract	
8	Role of Bidder/Member in Project	(e.g., Lead Developer, Lead Contractor, Shareholder, or O&M Manager)
9	Key Tasks/Services Performed by Bidder/Member	
10	Construction Duration	
11	Share in Project Equity (%)	
12	Years of Successful Operation	
13	Commercial Operations Date (COD)	
14	Principal Equipment Manufacturers	
15	Financing Institutions or Sponsors	
16	Any Additional Information	

Note: A separate form must be filled for each completed project.

Table 8: Bidder (Consortium member or JV member) BOO-BOT Wind Park Project Experience

Bidder (Consortium member or JV member) BOO-BOT wind park projects experience		
Name of Bidder / Consortium member or JV member		
No.	**Item**	**Description**
1	Name of Owner (Operator)/ Investor	Include contact person, address, telephone, fax number, and email)
2	Name of Power Purchaser	Include contact person, address, telephone, fax number, and email)
3	Name of Owner (Operator)/ Investor	Include contact person, address, telephone, fax number, and email)
4	Wind Park Location	
5	Wind Park Total Capacity	
6	Type of Wind turbine	
7	Rated Capacity of Units	
8	Date of Award of Project	
9	Total capital Cost of Project	
10	Value of Contract	
11	Role of Bidder/Member in Project	(e.g., Lead Developer, Lead Contractor, Shareholder, or O&M Manager)
12	Key Tasks/Services Performed by Bidder/Member	
13	Construction Duration	
14	Share in Project Equity (%)	

15	Years of Successful Operation	
16	Commercial Operations Date (COD)	
17	Principal Equipment Manufacturers	
18	Financing Institutions or Sponsors	
19	Any Additional Information	

Note: A separate form must be filled for each completed project.

13-4 Bidder's Financial Capability (Attachment – 4)

The Bidder must submit audited financial statements for the last three (3) fiscal years, demonstrating financial viability. These statements must be audited by a reputable firm of qualified accountants. If the Bidder is a holding company, consolidated financial statements must be submitted.

Additionally, the Bidder must submit credit references from one or more banks. These references must be printed on the bank's official letterhead and must clearly include the following details:

a) The period of banking relationship

b) Types of facilities availed

c) Outstanding balances under each facility

d) Confirmation that there is no ongoing event of default

In the case of a Consortium, each member must submit the table below along with supporting documentation.

Bidder's Financial Statements Data				
Name of Bidder / Member				
(All figures must be in equivalent EUR)				
NO.	**Description**	**2008**	**2009**	**2010**
1	Current assets			
2	Cash and cash equivalents			
3	Other current assets			
4	Fixed assets			
5	Other assets (please specify)			
6	**Total assets**			
7	Current liabilities			
8	Long-term liabilities			
9	Other liabilities			
10	**Total liabilities**			
11	Net Worth (Total Assets – Total Liabilities)			
12	Shareholders' equity			
13	Paid-up capital			
14	Retained earnings			
15	Others (please specify)			
16	Other Reserves (please specify)			
17	Operating Results			
18	Revenues			
19	Gross profit			
20	Income before interest and tax (EBIT)			
21	Financial charges			
22	Tax			
23	Net profit after tax			
24	Dividends paid			

Note: The Bidder (or each member in a Consortium) must complete this table and submit it separately, along with supporting evidence.

Article - 14 Project Potential Sites Information

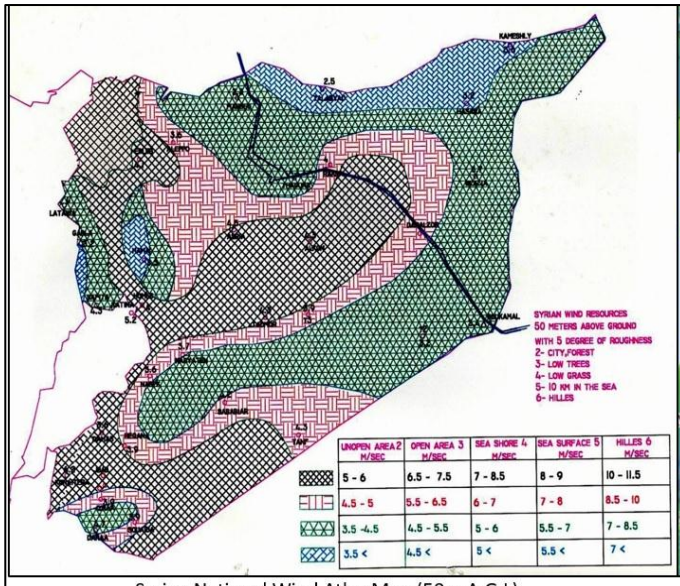
Bidders must select one or two sites from the options listed below to implement the project.

The proposed sites are:

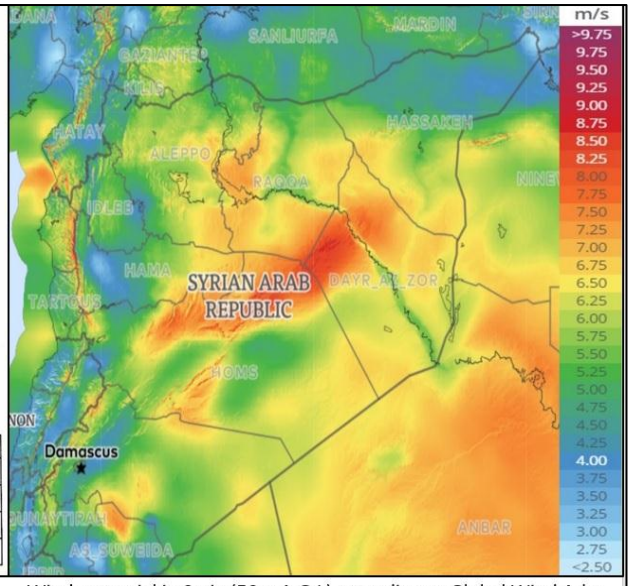
1. **Site 1: Qatinah Site** – A flat open area
2. **Site 2: Sindianah Site** – A hilly open area
3. **Site 3: Alhijana Site** – An open desert area
4. **Site 4: Ghabagheb Site** – A hilly open area
5. **Site 5: Alsukhnah Site** – A high, open, and flat desert area

Sites Location

Syrian National Wind Atlas Map



Syrian National Wind Atlas Map (50m A.G.L)



Wind potential in Syria (50m A.G.L) according to Global Wind Atlas

14-1 Site 1 Qatinah Site Information

- **Site location**

Located 10 km southwest of Homs city in western Homs Governorate, near the banks of Lake Qatinah. The site is approximately 3 km from the Damascus-Hama highway and 6 km from the Damascus-Homs highway. Wind turbines must be installed within the lake's boundary between elevation levels 500–501 meters above sea level (A.S.L.).

- **Measurement Site Description**

The wind mast was positioned near the Qatinah lake barrage, about 1–2 km northwest of the Qatinah industrial area. Surroundings consist of rocky bare soil with sparse vegetation. To the southeast lies the industrial area with tall structures, and further west, at a distance of 3 km, is a residential area with five-story buildings (not expected to affect measurements).

Coordinates: **E 281407 m, N 3839060 m** (UTM Zone 37S)

Data Recovery

The met mast was erected on August 1st, 2005 and was equipped with the following sensors

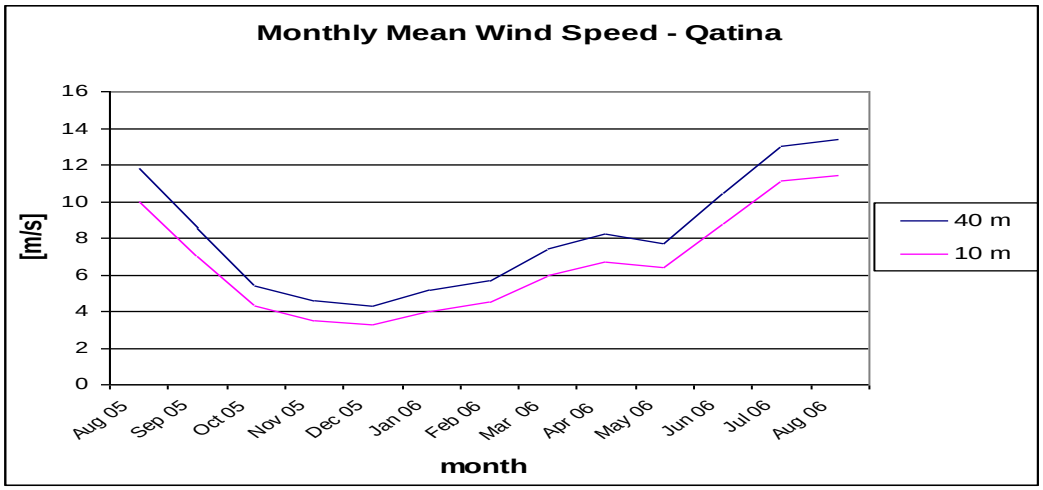
- Anemometer at 40m and 10m height
- Wind vane at 40m height
- Temperature and pressure sensor

Data are recorded in 10 min intervals as mean values (for all parameters) as well as maximum instantaneous values and standard deviation (for the wind speed) within the recording interval.

- **Annual wind speed distribution**

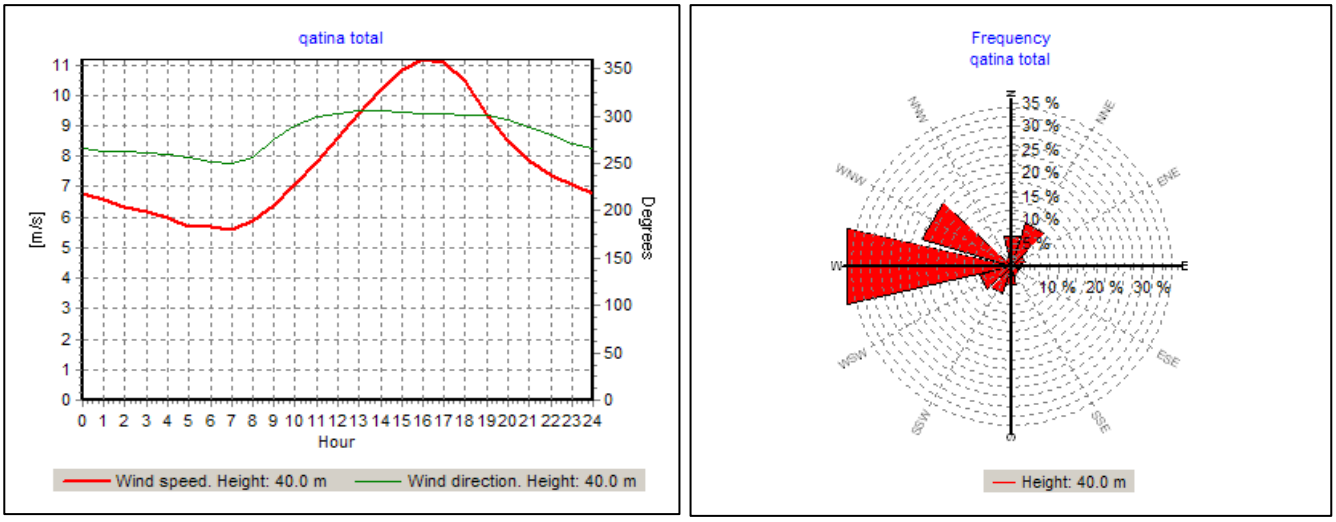
The following table, respectively chart shows the monthly averages of the measured wind speed data.

Month	data Recovery	40 m average	10 m average
Aug 05	98 %	11.8	10.0
Sep 05	100%	8.5	7.0
Oct 05	100%	5.4	4.3
Nov 05	100%	4.6	3.5
Dec 05	100%	4.3	3.3
Jan 06	100%	5.2	4.0
Feb 06	100%	5.7	4.5
Mar 06	100%	7.4	6.0
Apr 06	100%	8.2	6.7
May 06	100%	7.7	6.4
Jun 06	100%	10.5	8.8
Jul 06	100%	13.0	11.1
Aug 06	25 %	13.4	11.4
Avg.		**7.8**	**6.4**



Monthly Mean Wind Speed - Qatinah

- **Daily Distribution and Wind Direction**



Daily Wind Speed Distribution and Wind Direction Rose – Qatinah

- **Future Land Use and Expansion Potential**

The project can utilize the state-owned land within elevation levels 500–501 m A.S.L. Additional expansion is possible by agreement with private landowners in the area.

14-2 Site 2 Sindianah Site Information

- **Measurement Site Description**

Two wind measurement masts (Sindianah 1 and Sindianah 2) were previously installed at the Sindianah site, located approximately 20 km west of Homs. The landscape consists of gently rolling hills reaching up to 700 meters in elevation, with nearby villages and scattered farm buildings. The area is primarily used for agriculture, with minimal tree cover. Surface conditions vary seasonally with planting cycles, but no major obstacles affected wind flow at the time of measurement. One small building (approximately 4 meters tall) lies 150 meters northwest of the site and was not expected to influence the data. According to wind atlas modeling, the terrain is considered slightly complex**.**

- Coordinates of Mast 1: E 265673m, N 3844438m (UTM Zone 37S)

- Coordinates of Mast 2: E 265163m, N 3843022m (UTM Zone 37S)

- **Data Recovery**

The Sindianah 1 mast was erected on April 19, 2004, and Sindianah 2 on April 27, 2004. Both were equipped with the following instruments: Anemometer at 40m height

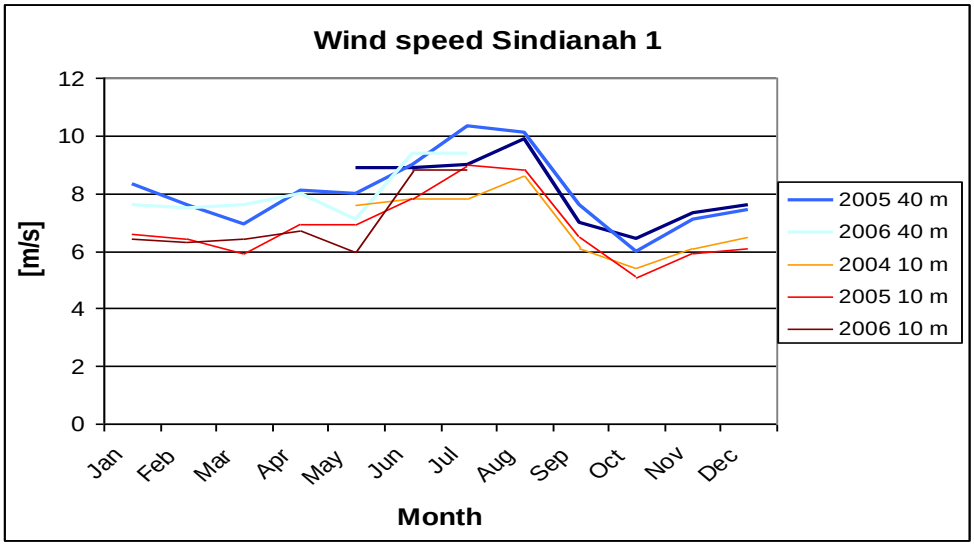
- Anemometer at 40m and 10m height
- Wind vane at 40m height
- Temperature sensor
- Pressure sensor

Measurements were recorded every 10 minutes and included mean values, maximum instantaneous wind speeds, and standard deviations.

Data are recorded in 10 min intervals as mean values (for all parameters) as well as maximum instantaneous values and standard deviation (for the wind speed) within the recording interval.

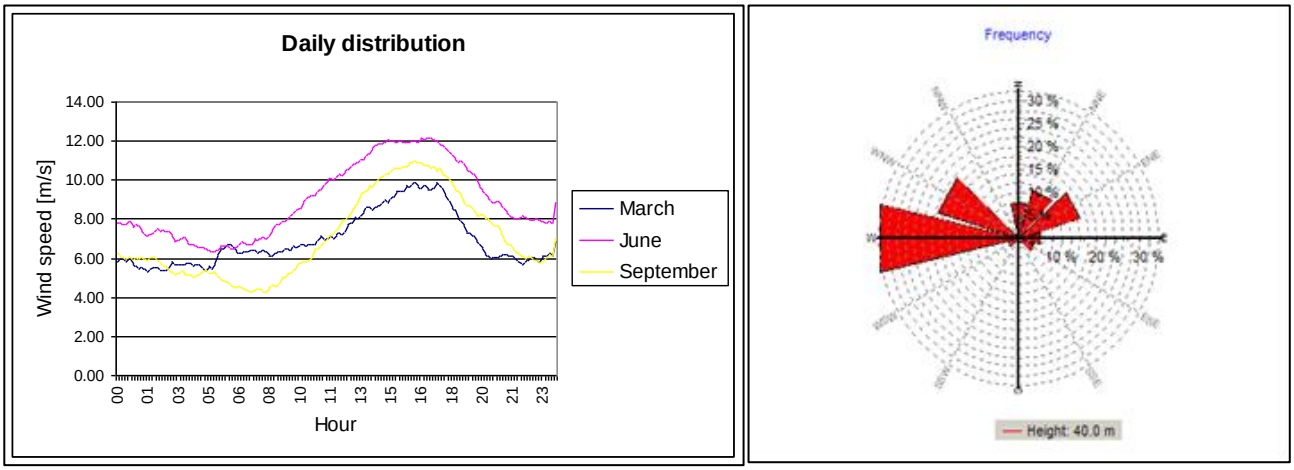
- **Annual wind speed distribution (Sindianah mast 1)**

Month	Data Recovery	40 m Average	10 m average
April 04	33 %	7.5	6.3
May04	100%	8.9	7.6
Jun 04	100%	8.9	7.8
Jul 04	100%	9.0	7.8
Aug 04	100%	9.9	8.6
Sep 04	100%	7.0	6.1
Oct04	100%	6.4	5.4
Nov 04	85%	7.3	6.1
Dec04	0%	7.6	6.5
Jan 05	0%	8.3	6.6
Feb 05	48%	7.6	6.4
Mar05	100%	6.9	5.9
Apr 05	100%	8.1	6.9
May05	100%	8.0	6.9
Jun 05	100%	9.0	7.8
Jul 05	100%	10.3	9.0
Aug 05	100%	10.1	8.8
Sep 05	100%	7.6	6.5
Oct 05	100%	6.0	5.1
Nov 05	100%	7.1	5.9
Dec 05	100%	7.4	6.1
Jan 06	100%	7.6	6.4
Feb 06	100%	7.5	6.3
Mar 06	100%	7.6	6.4
Apr 06	100%	8.0	6.7
May 06	100%	7.1	6.0
Jun 06	100%	9.4	8.8
Avg.	88%	**8**	**6.8**



Monthly Mean Wind Speed – Sindianah 1

- **Daily Distribution and Wind Direction**



Daily Wind Speed distribution and Wind Direction Rose – Sindianah 1

- **Future Land Use and Expansion Potential**

The area includes approximately 58 hectares of state-owned land, for which official approval has been granted for use in the project. Additionally, the surrounding area contains private properties that could be incorporated into the project through negotiated agreements with the respective landowners.

14-3 Site 3 Alhijana Site Information

- **Measurement Site Description**

A wind measurement mast was previously installed approximately 5 km south of the Tishreen Power Station, located east of Damascus. The site was only accessible via unpaved desert roads passing by the power plant, as no official roads were available. The surrounding area is predominantly arid and desert-like, with intermittent patches of irrigated agricultural land. The mast was situated within an irrigated zone that hosted ecological demonstration projects. Adjacent to this area, unused government land extends toward the power plant**.**

The broader area surrounding the mast is relatively flat, featuring a combination of dry desert terrain and cultivated land. A nearby plantation with young trees (approximately 1.5 m in height) was present but did not significantly affect wind measurements. In wind atlas modeling, this plantation was treated as an area with increased surface roughness. Overall, the site was considered free from significant obstructions, and based on terrain characteristics, it is categorized as a non-complex site in wind atlas modeling**.**

- Coordinates of the mast: E 285948m, N 3695479m (UTM Coordinates, Zone 37S)

- **Data Recovery**

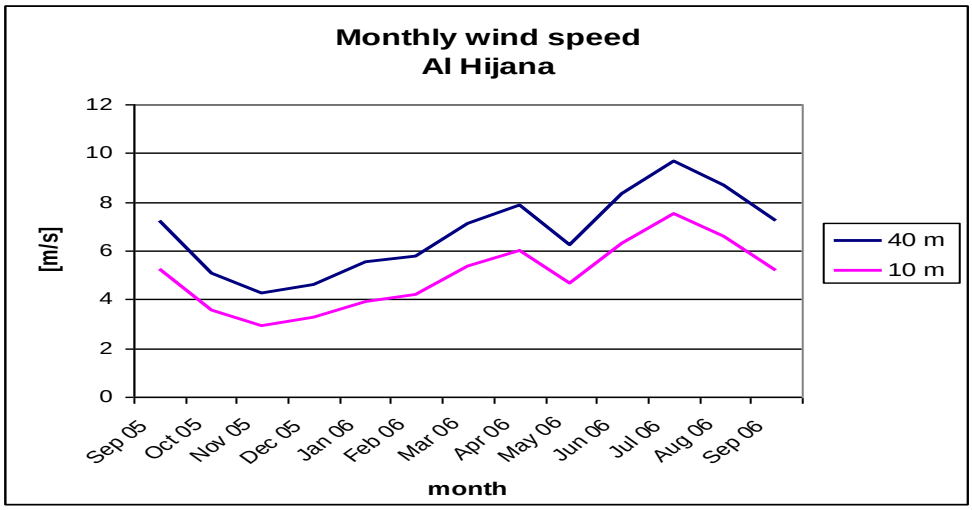
The measurement mast was erected on September 14th 2005 and is equipped with the following sensors

- Anemometer at 40m height
- Anemometer at 10m height
- Wind vane at 40m height
- Temperature sensor
- Pressure sensor

Data are recorded in 10 min intervals as mean values (for all parameters) as well as maximum instantaneous values and standard deviation (for the wind speed) within the recording interval.

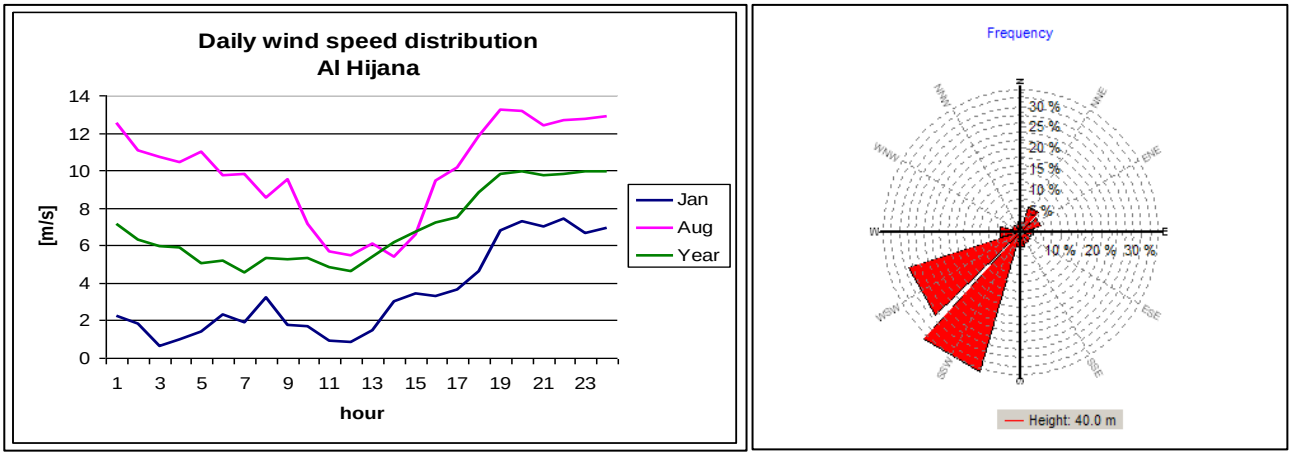
- **Annual wind speed distribution**

Month	data Recovery	40 m average	10 m average
Sep 05	50%	7.23	5.23
Oct 05	100%	5.05	3.53
Nov 05	100%	4.22	2.93
Dec 05	100%	4.62	3.26
Jan 06	100%	5.53	3.92
Feb 06	100%	5.78	4.20
Mar 06	100%	7.10	5.33
Apr 06	100%	7.84	5.98
May 06	100%	6.26	4.67
Jun 06	100%	8.34	6.28
Jul 06	100%	9.66	7.52
Aug 06	100 %	8.69	6.56
Sept	75 %	7.20	5.21
Avg.	94 %	**6.7**	**5.00**



Monthly Mean Wind Speed – Alhijana

- **Daily Distribution and Wind Direction**



Daily Wind Speed distribution and Wind Direction Rose – Alhijana

- **Future Land Use and Expansion Potential**

The project may benefit from the state-owned lands at this area, which have been designated for development. Additionally, there are privately-owned parcels nearby that could be included in the project through negotiated agreements with their owners.

14-4 Site 4 Ghabagheb Site Information

- **Measurement Site Description**

A wind measurement mast was previously installed on a chain of gently sloping hills rising approximately 100 meters above the surrounding plain. This chain runs roughly north–south for about 4 to 5 kilometers, located east of the city of Ghabagheb. The mast was positioned at the crest of the range (a natural pass) at an elevation of approximately 760 meters. Elevations along the ridge range between 750 and 800 meters.

The eastern slopes are somewhat steeper than the western side (which faces the prevailing wind direction), but none exceed a 30% gradient. Cultivated areas extend halfway up the slopes, while the crest consists of hard, rocky terrain with no significant vegetation. The site was free from notable obstructions such as tall buildings or trees that could have influenced the wind measurements.

The surrounding land is reportedly unused government property. Although the exact boundaries of the available land are not confirmed, it is assumed that the entire hill range along the crest may be available for wind park development. This assumption would need to be verified during a detailed feasibility study. The crest area is sufficiently flat to support access road construction and turbine installation with minimal civil works.

Coordination of the mast: E 244907m N 3677352m (UTM Coordinates Zone 37S)

- **Data Recovery**

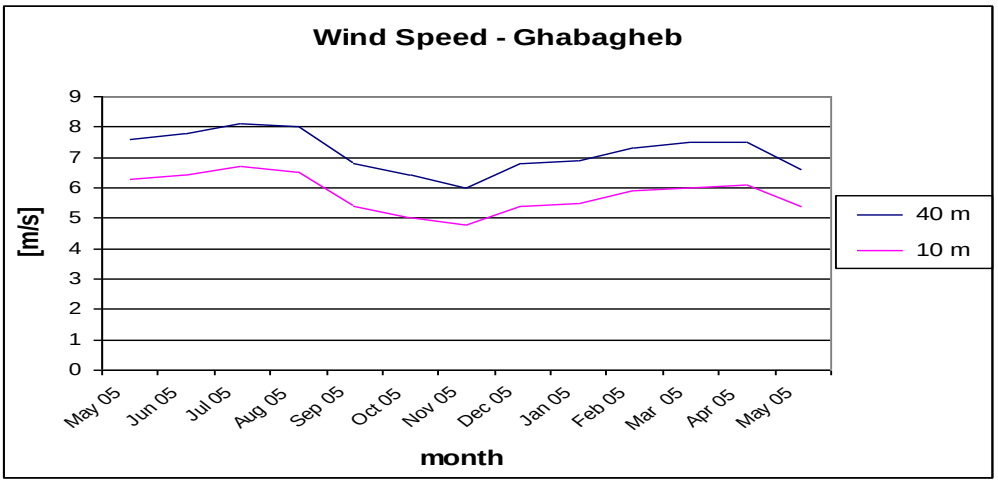
The measurement mast was erected on October 25th, 2004 and is equipped with the following sensors

- Anemometer at 40m height
- Anemometer at 10m height
- Wind Vane at 40m height
- Temperature Sensor
- Pressure sensor

Data are recorded in 10 min intervals as mean values (for all parameters) as well as maximum instantaneous values and standard deviation (for the wind speed) within the recording interval.

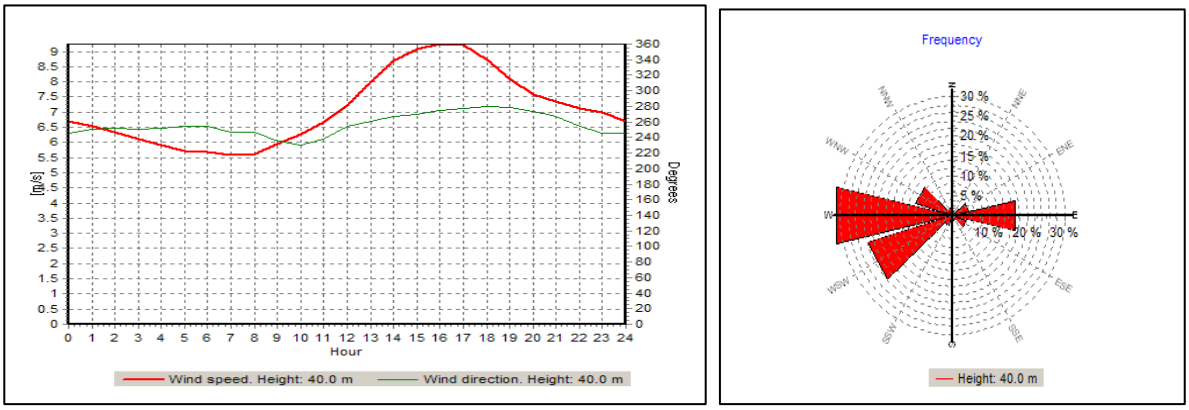
- **Annual wind speed distribution**

Month	data Recovery	40 m average	10 m average
Oct 04	21%	6.0	4.8
Nov 04	83%	6.6	5.4
Dec 04	0 %	Long Gap	Long Gap
Jan 05	0 %		
Feb 05	0 %		
Mar 05	0 %		
Apr 05	0 %		
May 05	74%	7.6	6.3
Jun 05	100%	7.8	6.4
Jul 05	100%	8.1	6.7
Aug 05	100%	8.0	6.5
Sep 05	100%	6.8	5.4
Oct 05	100%	6.4	5.0
Nov 05	100%	6.0	4.8
Dec 05	100%	6.8	5.4
Jan 06	100 %	6.9	5.5
Feb 06	100 %	7.3	5.9
Mar 06	100 %	7.5	6.0
Apr 06	100 %	7.5	6.1
May 06	85 %	6.6	5.4



Monthly Mean Wind Speed – Ghabagheb

- **Daily Distribution and Wind Direction**



Daily Wind Speed distribution and Wind Direction Rose – Ghabagheb

14-5 Site 5 Alsukhnah Site Information

– Measurement Site Description

A wind measurement mast was previously installed approximately 4 km east of Al Sukhna, at the eastern edge of a mountain range that extends from Al Sukhna eastward. The hills in this area rise about 50 to 70 meters above the otherwise slightly undulating terrain. Access to the site is possible via minor, unpaved roads branching from the main Sukhna road leading to the top of the hills.

The measurement location, along with the surrounding hill range, was free from buildings or significant vegetation that could affect wind measurements. As such, the data collected reliably reflected the natural wind conditions at the site. The area appeared largely unused, although remnants of civil works for a previous gas drilling station were present. However, because a new gas pumping station was later installed at a lower elevation nearby, it is not anticipated that the hilltop location will be developed for gas extraction.

The surrounding lowlands primarily consist of desert, interspersed with a few patches of irrigated and cultivated land. Oil field and pumping installations are also present in the broader area.

Coordination of the mast:

– Data Recovery

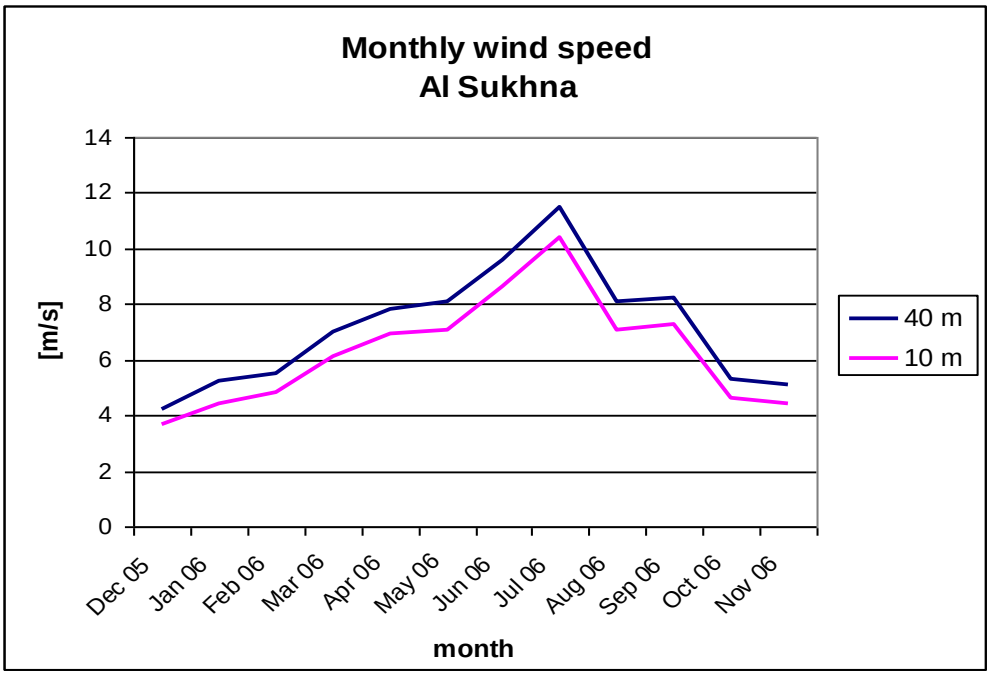
The measurement mast was erected on November 21, 2005, and was equipped with the following sensors:

- Anemometer at 40m height
- Anemometer at 10m height
- Wind Vane at 40m height
- Temperature Sensor
- Pressure sensor

Data are recorded in 10 min intervals as mean values (for all parameters) as well as maximum instantaneous values and standard deviation (for the wind speed) within the recording interval.

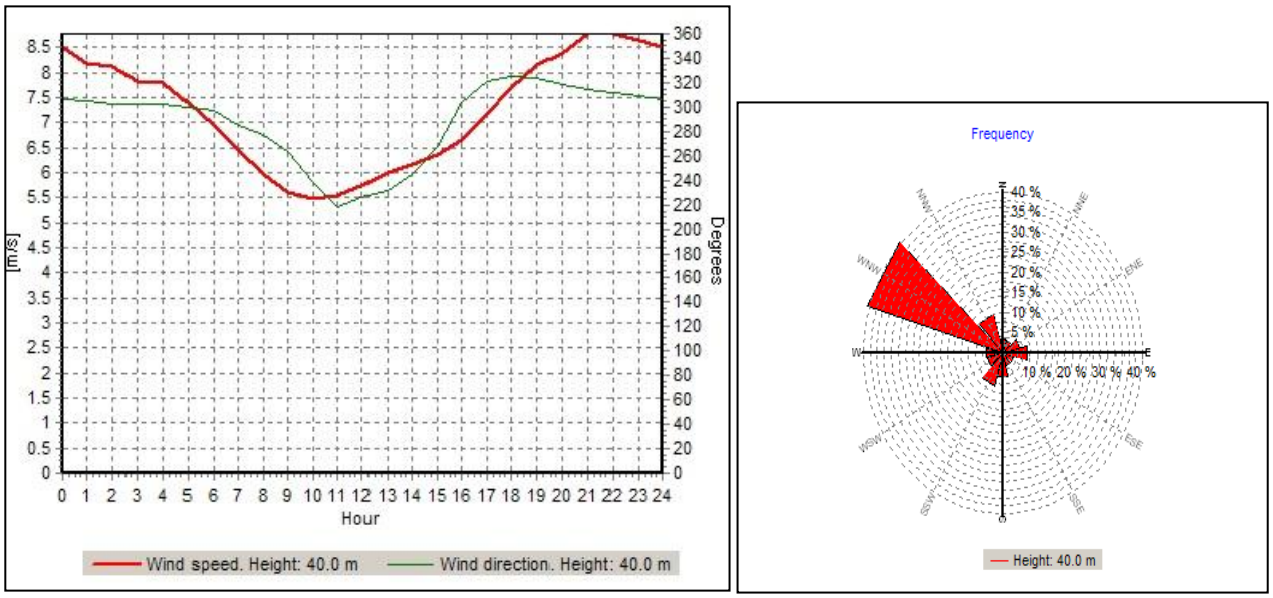
- **Annual wind speed distribution**

Month	Data Recovery	40 m Average	10 m Average
Nov 05	4 %	7.8	7.1
Dec 05	100%	4.2	3.7
Jan 06	93%	5.2	4.4
Feb 06	100%	5.5	4.8
Mar 06	100%	7.0	6.1
Apr 06	100%	7.8	6.9
May 06	100%	8.1	7.1
Jun 06	100%	9.6	8.6
Jul 06	100%	11.5	10.4
Aug 06	100%	8.1	7.1
Sept 06	100 %	8.2	7.3
Oct 06	100 %	5.3	4.6
Nov 06	70 %	5.1	4.4
Avg.		**7.18**	**6.34**



Monthly Mean Wind Speed – Alsukhnah

- **Daily Distribution and Wind Direction**



Daily Wind Speed distribution and Wind Direction Rose – Alsukhnah

- **Future Land Use and Expansion Potential**

The project site is located in an open desert region atop the flat terrain of Aldahek Mountain, approximately 8 kilometers northwest of Al-Sukhna. Aldahek Mountain rises between 100 and 150 meters above the surrounding landscape and provides a favorable elevation for wind energy development.

The total state-owned area atop Aldahek Mountain spans approximately 50 square kilometers, with the wind project planned to be implemented within a designated portion of this land. The site is currently undeveloped, free from buildings, vegetation, or any major obstructions that might interfere with wind flow.

Access to the site is available from the main Alsukhnah–Al Raqqa road via minor and unpaved tracks. However, site access roads will need to be constructed to accommodate the tr**0**ansportation of wind turbine components and construction equipment from public roads to the project area.

The ground conditions at the site are generally firm and rocky, making it suitable for construction with minimal preparatory civil works.

Note: Detailed site maps and coordinates will be provided to shortlisted bidders.

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G.D. of PETDE
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Eng. Khaled Abu Di