

The Ministry of Electricity and Renewable Energy

The Ministry of Electricity and Renewable Energy (MoERE) of the Arab Republic of Egypt has received financing from the Agency Française de Développement (AFD) to provide technical assistance in supporting the Implementation of Key Measures toward the Reform of the Energy Sector in Egypt". The objective is to modernize the energy sector and increase the share of renewable energy in the energy mix in line with Integrated Sustainable Energy Strategy (ISES) 2035.

In this context, the MoERE aims to establish incentivized regulatory frameworks as well as plan for the distribution grid in Egypt. Therefore an Request for Expression of Interest for : « Network Planning and Optimization for Distributed Energy Systems in EEHC Distribution Networks »

MOERE of the Arab Republic of Egypt hereby invites consulting firms to submit their Expressions of Interest for the above mentioned consultancy service project. Each Applicant is required to submit a separate Expression of Interest Application. The details of the requirements and guidelines for the Application can be found in the attached REOI.

The Expressions of Interest shall be submitted to the email address below as following:

- 1- Expression of Interest no (2/2024/2025) for : Network Planning and Optimization for Distributed Energy Systems in EEHC Distribution Networks no later than 26 of June 2025.

To the attention:

Eng. Abdelwahab Qamar: abdelwahab.eeu@gmail.com

the Ministry of Electricity & Renewable Energy, Governmental District, New Administrative Capital, Cairo, Egypt, Headquarter Building 2nd floor, procurement and warehouse dept

Tel +2-0220532824

Request for Expressions of Interest No.: AFD-MOERE-2/2024/2025

Network Planning and Optimization for Distributed Energy Systems in EEHC Distribution Networks

Agence Française de Développement



May 2025

ARAB REPUBLIC OF EGYPT

Network Planning and Optimization for Distributed Energy Systems in EEHC Distribution Networks

CONSULTING SERVICES

Expressions of Interest

The Ministry of Electricity and Renewable Energy (“**MoERE**”) of the Arab Republic of Egypt has received financing from the Agence Française de Développement (“**AFD**”). It intends to use part of the funds thereof for payments under the following project: Network Planning and Optimization for Distributed Energy Systems in EEHC Distribution Networks.

The Agence Française de Développement (AFD) a bilateral financial institution implementing French development policy financing- (“The Grand Financier”) has agreed to provide a budget support financing to the GoE to accompany the implementation of the energy reforms that it deems essential for the sustainable development of the energy sector. This support includes technical assistance (TA) to the Ministry of Electricity and Renewable Energy (MoERE) and its affiliates (jointly referred to as “The Client”) on the topic concerned with procurement and coordination expert (“The Assignment”). This assignment is part of the TA Program supporting **actions and policy reforms for the Egyptian energy transition**.

Within this context, the AFD has agreed to make available to the GoE a Global Grant of up to 1 million Euro (EUR 1,000,000) to finance technical assistance (the "Project") aiming at supporting the implementation of key measures towards the reform of the energy sector in Egypt and under the objectives presented in this Request for Expressions of Interest “**REoI**”.

The National Renewable Energy Authority (NREA) and the Egyptian Electricity Holding Company (EEHC) are focused on improving the integration of renewable energy sources at the distribution level. To enhance the resilience and sustainability of electric distribution networks. The consultant's services aim to address these challenges through a comprehensive suite of solutions tailored to optimize the integration of DERs, such as solar photovoltaic systems, wind energy, and battery storage.

The Services of the Consultant shall consist of, but not limited of the following:

- **Assessment of Current Grid Planning Capacity:** Evaluate EEHC’s existing grid planning capabilities and capacity, identifying technical strengths, gaps, and areas for improvement in managing the integration of distributed energy resources (DERs).
- **Review of International Best Practices:** Review and adapt international best practices in network planning and DER integration, tailoring these practices to meet EEHC’s specific needs and context.
- **Data Collection and Verification:** Establish a comprehensive methodology for accurate data collection and verification, ensuring reliable forecasting, planning, and decision-making for DER integration.
- **Planning for DER Integration:** Develop and implement a robust planning methodology for integrating DERs, including electric vehicles (EVs), photovoltaic (PV) systems, and battery storage, into the distribution network. This plan should incorporate advanced forecasting and scenario.

- Load Forecasting: Utilize advanced load forecasting models to predict changes in demand and load profiles, considering the impact of EV adoption, rooftop solar, and battery storage on the network.
- Technical and Financial Impact Assessment: Assess the technical and financial impact of DER integration on network performance, focusing on grid reliability and financial implications, and propose strategies to mitigate any negative effects.
- Capacity Building and Training: Develop and deliver targeted training programs to strengthen EEHC staff's ability to manage and optimize DER integration, ensuring the successful execution of the planning strategies.
- Continuous Progress and Adoption Program: Establish a program to ensure continuous progress on the planning strategy, including mechanisms for regular updates, feedback loops, and ongoing adoption by EEHC colleagues. This program should focus on sustaining long-term engagement and ensuring the planning strategy becomes fully integrated into EEHC's distribution teams culture .
- Tooles of programs and moduling for grid distributin networks, including main parameters, i.e (input & output tooles,measurment tooles & prossising tooles-.....).

The MoERE of the Arab Republic of Egypt hereby invites Applicants to show their interest in delivering the Services described above.

This Request for Expressions of Interest is open to:

- Consulting firms
- Individual consultants
- NGOs
- Joint Venture between NGO(s) and consulting firm(s)

Eligibility criteria to AFD financing are specified in sub-clause 1.3 of the "Procurement Guidelines for AFD-Financed Contracts in Foreign Countries", available online on AFD's website: www.mooc-campus.afd.fr.

The Applicant shall submit only one application, either in its own name or as a member of a Joint Venture (JV). If an Applicant (including any JV member) submits or participates in more than one application, those applications shall be all rejected. However, the same Subconsultant may participate in several applications.

If the Applicant is a JV, the expression of interest shall include:

- A copy of the JV Agreement entered into by all members,
- or
- A letter of intent to execute a JV Agreement, signed by all members together with a copy of the Agreement proposal,

In the absence of this document, the other members will be considered as Subconsultants.

Experiences and qualifications of Subconsultants are not taken into account in the evaluation of the applications.

Interested Applicants must provide information evidencing that they are qualified and experienced to perform those Services. For that purpose, documented evidence of recent and similar services shall be submitted.

Determination of the similarity of the experiences will be based on:

- The contracts size and duration;
- Experience profile and advisory services on DER such as distributed renewable energy, battery storage and EVs, as well as grid planning and integration, including load forecasting and technical and financial impact assessment;
- Technical area and expertise in developing and delivering a capacity building program on managing and optimizing DER integration, knowledge of PV, EVs and energy storage systems, load forecast, technical and financial impact of DER integration on network performance, among others;
- Demonstrated experience in providing consulting services to Electricity Utilities;
- Regional experience working in Egypt, Middle-East and North Africa;
- Working experience in developing cooperations projects.

The Client will also take into account for the evaluation of the applications the following items:

- Technical skills and availability of the in-house experts;
- Availability of local representation and partners;
- Quality assurance procedures and certifications of the Applicant such as ISO 90001.

Among the submitted applications, the MoERE for the Arab Republic of Egypt will shortlist a maximum of six (6) Applicants, to whom the Request for Proposals to carry out the Services shall be sent.

The Expressions of Interest must be submitted to the address below no later than the 26nd of June 2025.

Eng. AbdelWahab Qamar: Project Manager
E-mail: abdelwahab.eeu@gmail.com

Interested Applicants may obtain further information at the addresses below during office hours 09:00 am to 03:00 pm:

- Eng. AbdelWahab Qamar: Project Manager
Phone: 002 - 01008825495, E-mail: abdelwahab.eeu@gmail.com

The Governmental District, New Administrative Capital, Cairo, Egypt, The Head quarter Building 6th floor, international cooperation Dept.

Attention: Eng. Abdelwahab Qamar

Tel : + 202 22 63 98 14

Fax: + 202 22 61 65 23

**Appendix to The Request for Expressions of Interest
(To be submitted with the application, signed and unaltered)**

Statement of Integrity, Eligibility and Environmental and Social Responsibility

Reference of the bid or proposal _____ (the "**Contract**")

To: _____ (the "**Contracting Authority**")

1. We recognise and accept that *Agence Française de Développement* ("**AFD**") only finances projects of the Contracting Authority subject to its own conditions which are set out in the Financing Agreement which benefits directly or indirectly to the Contracting Authority. As a matter of consequence, no legal relationship exists between AFD and our company, our joint venture or our suppliers, contractors, subcontractors, consultants or subconsultants. The Contracting Authority retains exclusive responsibility for the preparation and implementation of the procurement process and performance of the contract. The Contracting Authority means the Purchaser, the Employer, the Client, as the case may be, for the procurement of goods, works, plants, consulting services or non-consulting services.
2. We hereby certify that neither we nor any other member of our joint venture or any of our suppliers, contractors, subcontractors, consultants or subconsultants are in any of the following situations:
 - 2.1 Being bankrupt, wound up or ceasing our activities, having our activities administered by the courts, having entered into receivership, reorganisation or being in any analogous situation arising from any similar procedure;
 - 2.2 Having been:
 - a) convicted, within the past five years by a court decision, which has the force of *res judicata* in the country where the Contract is implemented, of fraud, corruption or of any other offense committed during a procurement process or performance of a contract (in the event of such conviction, you may attach to this Statement of Integrity supporting information showing that this conviction is not relevant in the context of this Contract);
 - b) subject to an administrative sanction within the past five years by the European Union or by the competent authorities of the country where we are constituted, for fraud, corruption or for any other offense committed during a procurement process or performance of a contract (in the event of such sanction, you may attach to this Statement of Integrity supporting information showing that this sanction is not relevant in the context of this Contract);
 - c) convicted, within the past five years by a court decision, which has the force of *res judicata*, of fraud, corruption or of any other offense committed during the procurement process or performance of an AFD-financed contract;
 - 2.3 Being listed for financial sanctions by the United Nations, the European Union and/or France for the purposes of fight-against-terrorist financing or threat to international peace and security;
 - 2.4 Having been subject within the past five years to a contract termination fully settled against us for significant or persistent failure to comply with our contractual obligations during contract performance, unless this termination was challenged and dispute resolution is still pending or has not confirmed a full settlement against us;
 - 2.5 Not having fulfilled our fiscal obligations regarding payments of taxes in accordance with the legal provisions of either the country where we are constituted or the Contracting Authority's country;

- 2.6 Being subject to an exclusion decision of the World Bank and being listed on the website <http://www.worldbank.org/debarr> (in the event of such exclusion, you may attach to this Statement of Integrity supporting information showing that this exclusion is not relevant in the context of this Contract);
- 2.7 Having created false documents or committed misrepresentation in documentation requested by the Contracting Authority as part of the procurement process of this Contract.
3. We hereby certify that neither we, nor any of the members of our joint venture or any of our suppliers, contractors, subcontractors, consultants or subconsultants are in any of the following situations of conflict of interest:
 - 3.1 Being an affiliate controlled by the Contracting Authority or a shareholder controlling the Contracting Authority, unless the stemming conflict of interest has been brought to the attention of AFD and resolved to its satisfaction;
 - 3.2 Having a business or family relationship with a Contracting Authority's staff involved in the procurement process or the supervision of the resulting Contract, unless the stemming conflict of interest has been brought to the attention of AFD and resolved to its satisfaction;
 - 3.3 Being controlled by or controlling another bidder or consultant, or being under common control with another bidder or consultant, or receiving from or granting subsidies directly or indirectly to another bidder or consultant, having the same legal representative as another bidder or consultant, maintaining direct or indirect contacts with another bidder or consultant which allows us to have or give access to information contained in the respective applications, bids or proposals, influencing them or influencing decisions of the Contracting Authority;
 - 3.4 Being engaged in a consulting services activity, which, by its nature, may be in conflict with the assignments that we would carry out for the Contracting Authority;
 - 3.5 In the case of procurement of goods, works or plants:
 - a) Having prepared or having been associated with a consultant who prepared specifications, drawings, calculations and other documentation to be used in the procurement process of this Contract;
 - b) Having been recruited (or being proposed to be recruited) ourselves or any of our affiliates, to carry out works supervision or inspection for this Contract.
4. If we are a state-owned entity, and to compete in a procurement process, we certify that we have legal and financial autonomy and that we operate under commercial laws and regulations.
5. We undertake to bring to the attention of the Contracting Authority, which will inform AFD, any change in situation with regard to points 2 to 4 here above.
6. In the context of the procurement process and performance of the corresponding contract:
 - 6.1 We have not and we will not engage in any dishonest conduct (act or omission) deliberately intended to deceive others, to intentionally conceal items, to violate or vitiate someone's consent, to make them circumvent legal or regulatory requirements and/or to violate their internal rules in order to obtain illegitimate profit;
 - 6.2 We have not and we will not engage in any dishonest conduct (act or omission) contrary to our legal or regulatory obligations or our internal rules in order to obtain illegitimate profit;
 - 6.3 We have not promised, offered or given and we will not promise, offer or give, directly or indirectly to (i) any Person who holds a legislative, executive, administrative or judicial mandate within the State of the Contracting Authority regardless of whether that Person was nominated or elected, regardless of the permanent or temporary, paid or unpaid nature of the position and regardless of the hierarchical level the Person occupies, (ii) any other Person who performs a public function, including for a State institution or a State-owned company, or who provides a public service, or (iii) any other person defined as a Public Officer by the national laws of the Contracting Authority's country, an undue advantage of

any kind, for himself or for another Person or entity, for such Public Officer to act or refrain from acting in his official capacity;

- 6.4 We have not promised, offered or given and we will not promise, offer or give, directly or indirectly to any Person who occupies an executive position in a private sector entity or works for such an entity, regardless of the nature of his/her capacity, any undue advantage of any kind, for himself or another Person or entity for such Person to perform or refrain from performing any act in breach of its legal, contractual or professional obligations;
 - 6.5 We have not and we will not engage in any practice likely to influence the contract award process to the detriment of the Contracting Authority and, in particular, in any anti-competitive practice having for object or for effect to prevent, restrict or distort competition, namely by limiting access to the market or the free exercise of competition by other undertakings;
 - 6.6 Neither we nor any of the members of our joint venture or any of our suppliers, contractors, subcontractors, consultants or subconsultants shall acquire or supply any equipment nor operate in any sectors under an embargo of the United Nations, the European Union or France;
 - 6.7 We commit ourselves to comply with and ensure that all of our suppliers, contractors, subcontractors, consultants or subconsultants comply with international environmental and labour standards, consistent with laws and regulations applicable in the country of implementation of the Contract, including the fundamental conventions of the International Labour Organisation (ILO) and international environmental treaties. Moreover, we shall implement environmental and social risks mitigation measures when specified in the environmental and social commitment plan (ESCP) provided by the Contracting Authority.
7. We, as well as members of our joint venture and our suppliers, contractors, subcontractors, consultants or subconsultants authorise AFD to inspect accounts, records and other documents relating to the procurement process and performance of the contract and to have them audited by auditors appointed by AFD.

Name: _____ In the capacity of: _____

Duly empowered to sign in the name and on behalf of¹: _____

Signature: _____

Dated: _____

¹ In case of joint venture, insert the name of the joint venture. The person who will sign the application, bid or proposal on behalf of the applicant, bidder or consultant shall attach a power of attorney from the applicant, bidder or consultant.