

KAHRAMAA

Guidelines for Accreditation of Energy Services Companies

2023



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1. Introduction: -

KAHRAMAA intends to grant accreditation to reputed firms as “Energy Services Company” ESCO.

The overall objective of accreditation is to enhance the professionalism and quality of services offered by ESCOs. This will enhance assurance in the energy services sector and help promote the growth of the industry. The accreditation scheme can lead to the following benefits:

- Development of professional and qualified ESCOs and energy Engineers.
- Enhance the reputation of ESCOs, and in particular energy auditing services
- Promote incentive schemes for energy efficiency
- Ensure genuine services to client.

The accreditation is open to any company established in Qatar who wishes to be accredited in the provision of energy auditing services and implementation of energy efficiency and conservation projects for buildings and facilities.

Accreditation is differentiated according to the level of experience of the ESCO and the types of systems and expertise of the ESCO company.

The periodicity of accreditation will be **for three years**

2. Definition

The following are the typical elements for an ESCO project

- Site survey and preliminary evaluation
- Investment grade energy audit
- Identification of possible energy savings ,efficiency improving actions and operational measures
- Financial presentation and client decision
- Guarantee of the results by proper contract clauses
- Project financing or assistance for financing
- Comprehensive engineering and project design and specifications
- Procurement and installation of equipment final design and construction
- Project management, commissioning, and acceptance
- Facility and equipment operation & Maintenance for the contract period
- Measurement and verification of the savings results
- Operation and maintenance

The ESCO firms are also expected to conduct water conservation audits and measures for implementation in a similar way dealt in energy conservation scenario.

Investment grade audit as mentioned above studies and covers the behavior of implemented measures over a period of time, IGA attempts to predict the building future energy usage by risk assessment

component and other variables to predict the behavior of the power system and/or process over a time.

3. Grades of accreditation

Grade A	Grade B	Grade C
Can undertake Energy services in all types of Installation including heavy industries	Can undertake Energy services in Installations of Maximum demand Below 5MW and below excluding Heavy industries	Can undertake Energy services in Installations of Maximum demand of 1MW and below of Commercial Governmental Agricultural farms small scale industries and residential only

The above classification is for individual customer and a cluster of installations exceeding the above demand rating is not acceptable except for Grade A ESCO

All grades for ESCO are expected to conduct water conservation audit as well irrespective of any demand requirement

Jobs undertaken for only Electrical OR water sector alone in a particular firm is not acceptable unless there is no such facility in that firm

4. Requirements

Criteria	Description
Company CR	
Organizational chart of ESCO	
CVs of all personnel including engineering certifications	The company should have resources of Electrical and Mechanical Engineers with overall experience for 10,7,5 years for different grades of accreditation and essentially 2 years' experience required in the field of Energy conservation and Energy Management. All resources above should be Minimum Graduate Engineers Grade A accreditation: - To have resources of 2 Electrical Engineers and 2 Mechanical Engineers of Minimum 10 years Experience Grade B accreditation: - To have resources of 2 Electrical Engineers and 1 Mechanical Engineer of Minimum 7 years Experience Grade C accreditation: - To have resources of 1 Electrical Engineer and 1 Mechanical Engineer of Minimum 5 years Experience
Financial statement	Provide audited financial statements for the past 3 years for the ESCO
Experience	have conducted at least 3 Energy Audits in preceding 3 years with at least one audit conducted in GCC.
Equipment	The following Minimum list of equipment shall be in possession of ESCo Company:

	<p>Digital Power Analyzer with recording facility capable of measuring all Electrical parameters 2 Numbers Multi tester with Tong testing of 200A minimum rating Laser thermometer 2 numbers Distance meter Lux meter Thermograph Analyzer Water flow measurement devices 2 numbers Any other equipment facilitating Energy and Water auditing To be submitted in the website</p>
Office	<p>Office requirement: To have established office in state of Qatar with at least 4 workstations and Laptops with MSOffice and MS project and additional resources of 2 Electrical technician 2 draftsmen (Optional not to be dedicated resource) International companies: International reputed companies can also apply for the accreditation provided they have a local liaison office responsible for all activities and legally responsible for end user results expected as outcome of ESCO activity. Undertaking to this effect is required to be submitted along with the application The company should comply with above all requirements of shore and the resources should physically attend the facility in state of Qatar to conduct the functions defined for ESCo. They should also attend in person for interview with KM</p>

Any change in resources mentioned in initial application should be replaced by equivalent personnel and notified to KM in one months' time failing which the accreditation will be deemed as invalid from the date of Initial resources mentioned in application leaving the firm.

Deadline for submitting the ESCO accreditation application is 31st October 2023.

Applications in appended format to be submitted duly signed and stamped in hard copy and one soft copy with all details addressed to

The Manager Conservation & Energy Efficiency

KAHRAMAA Main

DAFNA

DOHA Qatar

APPENDIX1 Application Forms