Terms of Reference

Analysis of Long-term National Energy Demand

Analysis and Conducting a National Training Course on Energy Planning and Energy Demand Modelling

Beneficiary: Libya
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The expert will ensure preparation and successful completion of the tasks described in details in this Terms of Reference (ToR)

1 Objective

This assignment aims to support Libya through carrying out a long-term energy demand analysis accompanied with building national capacity in the field of energy planning as part of its endeavors to update its national sustainable energy strategy.

2 Scope of assignment and deliverables

The analysis should be performed using a modified version of the IAEA’s energy planning model MAED (Model for Analysis of Energy Demand). It will be followed by conducting a national training course on “Energy Planning and Energy Demand Modelling”.

The development of the energy demand study and the training course will cover the following main steps:

- Literature review, data collection and evaluation, covering available official data and additional regional and international references.
- Data preparation covering national energy balance beside demographic, socio-economic and technological drivers.
- Reconstruction of base year final energy demand and calibration of related parameters.
- Future visioning and construction of future socio-economic and technological development of business as usual (BAU) scenario up to 2050.
- Future visioning and construction of future socio-economic and technological development of sustainable development scenario (SDS) up to 2050
- Running the model and extracting the results for the BAU and SES scenarios.
- Monitoring and evaluation of the results of both scenarios beside extracting related indicators aligned to SDGs.
- Sensitivity analysis for selected key drivers.
- Assessment of the impact of COVID-19 on the future energy demand.
- Documentation and preparing the study report.
- Preparation for and conducting of national online workshop to present and discuss the study results with national experts and receive final recommendation.
- Integration of feedback from the national energy experts and preparation of the final study report.
- Conducting 3-day national training course on energy planning and energy demand modelling.
- Submitting workshop and training course reports.
3 Timeframe and Deliverables
The start of the assignment is planned mid-January 2021. The final version of the Analysis of Long-term National Energy Demand Analysis of Libya is expected to be submitted in mid of March 2021.

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<tr>
<th>#</th>
<th>Action</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>1</td>
<td>Literature review and Future visioning and construction of future socio-economic and technological development of sustainable development scenario (SDS) up to 2050 Deliverable: Preparation of two scenarios.</td>
<td>28 January 2021</td>
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<tr>
<td>2</td>
<td>Scenarios building and preparing the first draft study report Deliverable: First draft of the study ”Long-term National Energy Demand” report.</td>
<td>15 February 2021</td>
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<td>3</td>
<td>Conducting a virtual consultation workshop with key stakeholders to discuss the study results with national experts and receive final recommendation Deliverable: Presentation, meeting and workshop reporting.</td>
<td>21 February 2021</td>
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<tr>
<td>4</td>
<td>Conducting national training course on energy planning and energy demand modelling Deliverable : Training materials and reporting.</td>
<td>27 February 2021</td>
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<tr>
<td>5</td>
<td>Final draft for the study report approved by the officials/experts of Libya and RCREEE. Deliverables : Final version of the Study ”Analysis of Long-term National Energy Demand Analysis”</td>
<td>15 March 2021</td>
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4 Qualifications of the expert
The expert(s) can be a consulting firm or an independent expert and is (are) expected to fulfil the following requirements:

- Advanced university degree in energy, energy management, energy planning, renewable engineering, or other energy relevant fields, as well as economics or policy development.
- In-depth knowledge of the sustainable energy context in the Arab region, along with socio-economic and technological development.
- At least 15 years of experience in energy sector including the energy modelling and scenarios building, design and implementation of sustainable energy strategies and energy policy deployment at international or regional level, preferably with further experience in the Arab region.
- In-depth knowledge in institutional, regulatory and legal frameworks for sustainable energy, including the legal drafting of policies and supporting measures, administrative procedures, etc...
- Proven track record of delivering similar services.
- Excellent command of written and spoken English and Arabic.

The assignment must be conducted in close coordination with RCREEE and stakeholders in Libya that will ensure the monitoring and the supervision of the work progress. The expert(s) are responsible for the delivery of all contents based on the scope of work with respect to the reporting schedule.
5 Contracting Party and Beneficiary

The expert will enter into a consultancy contract with RCREEE according to RCREEE's internal regulation and terms of contracting.

6 Payment and Deliverables

RCREEE shall effect payments to the Expert within thirty (30) days after successful completion of the tasks presented above and their approval by RCREEE and the Renewable Energy Authority of Libya (REAoL) and the provision of all deliverables.

Payment for the services describe above will be made as follows:

- 30% of the total contract price after RCREEE acceptance of the first draft of the Analysis of Long-term National Energy Demand report.
- 40% of the total contract price after conducting national training course on energy planning and energy demand modelling
- 30% of the total contract price after submission the final version of Analysis of Long-term National Energy Demand report.

7 Working Languages:

English language.

8 Other terms and conditions

- RCREEE have the right to have all reports under this project redrafted by the expert as many times as necessary to achieve an acceptable final version by the beneficiary. The project time line indicated has to be strictly adhered to.
- The expert shall acknowledge that RCREEE have proprietary rights of all reports, articles, and any other documents acquired, compiled or prepared in the performance of the Project, with the exception of those documents used in the project which have already been copyrighted.
- The expert shall be under an obligation of confidentiality on all matters concerning the activities and all issues relating to its assignment in the Project. This confidentiality clause commits the expert “to respect the secrecy of all information, knowledge of which it may gain during the execution of its work, and to refrain from divulging to third parties or from using for personal/corporate gain or for that of a third party any document or item of information which would not otherwise have been made public, even after they have ceased to be of relevance to the aforementioned work. The expert shall thus not make any statements publicly or to media regarding the assignment unless RCREEE has given its written permission to do so.
- This ToR shall be deemed to form an integral part of the contract.
9 How to Apply

Interested expert(s) must submit the following documents/information to demonstrate their qualifications to procurement@rcreee.org with no later than Sunday, January 10th 2021 at 01:00pm (Cairo Time).

A. Technical Proposal:
- Provide a brief methodology on how they will approach and conduct the work.
- Personal CV including past experience in similar projects and at least 3 references

B. Financial Proposal:
The financial proposal shall specify a total lump sum amount, and payment terms shall be against the deliverables (i.e. whether payments fall in installments or upon completion of the entire agreement).

Price should inclusive of all costs, expenses, charges or fees that Expert may incur in connection with the performance of its obligations hereunder, including management, travel costs and all taxes, duties, levies, fees and other charges of any nature imposed by any authority or entity.

Payments are based upon delivery of the services specified in the TOR.

C. Evaluation:

When using this weighted scoring method, the award of the agreement should be made to the Expert whose proposal has been evaluated and determined as:

* Technical Criteria weight; 70% & Financial Criteria weight; 30%

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<th>Criteria</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Technical</td>
<td>70%</td>
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<tr>
<td>- General Experience</td>
<td>20 pts</td>
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<tr>
<td>- Specific Experience</td>
<td>30 pts</td>
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<tr>
<td>- Methodology</td>
<td>50 pts</td>
</tr>
<tr>
<td>Financial</td>
<td>30%</td>
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Only candidates obtaining a minimum of 70 points of the Technical Evaluation would be considered for the Financial Evaluation.