



**EMA**

Euro-Mediterran-Arabischer Länderverein  
المنظمة العربية الأورومتوسطية للتعاون الإقتصادي  
Euro-Mediterranean-Arab Association

## Consulting, Einspeisung fluktuierender erneuerbarer Energien in das Stromnetz

13.07.2021

**EMA Referenznummer:** 2021-07-13-5

<b>Land:</b>	Tunesien
<b>Abgabetermin:</b>	22.07.2021
<b>Finanzierung:</b>	Weltbankgruppe (IBRD)
<b>Referenznummer:</b>	WB-P776346-07/21
<b>Betreff:</b>	eConsult: VRE Integration study: Supporting the financial viability and sustainable transition of the energy sector in Tunisia

### Vorgesehen:

- Ausarbeitung einer Studie zur Bewertung der Auswirkungen der Nutzung fluktuierender erneuerbarer Energien auf das Stromnetz und Identifizierung relevanter Maßnahmen zur Abmilderung negativer Auswirkungen und Optimierung des gesamten Stromnetzes

Weitere Details entnehmen Sie bitte dem nachfolgenden Originaltext:

### ASSIGNMENT OVERVIEW

VRE integration Study in Tunisias Electric Power System

### Objectives

The objective of the assignment is to support the Tunisia team of the World Bank to assess VRE deployment potential in Tunisia by delivering (i) a clear timeline for solar and wind deployment based on optimized scenarios; (ii) a list of investments needed in grid upgrades for VRE integration and uptake; and (iii) optimal locations for future VRE power plants.



**EMA**

Euro-Mediterran-Arabischer Länderverein

المنظمة العربية الأورومتوسطية للتعاون الإقتصادي

Euro-Mediterranean-Arab Association

## **Description**

This assignment will support the Tunisia team of the World Bank to assess the impacts of variable renewable energy (VRE) on the grid and identify the relevant measures to mitigate them and optimize the overall electric system. This assignment will identify the optimized VRE capacity for Tunisia, articulating sustainable renewable energy targets with grid investments needed to integrate VRE, and identifying optimal locations for VRE deployment.

### **Deliverables**

Through an iterative approach involving VRE deployment scenarios, VRE grid integration analysis and high-level locational study (using OPTGEN+SDDP for least-cost generation scenarios, PSS-E for stability studies and analysis, PSS-E/PCOT for flexibility studies and MapRE for locational study):

- VRE deployment scenarios (capacity, technology and commissioning date) after modeling the existing generation system in OptGen
- Grid upgrades needed to integrate VRE (list and budget for pre-agreed timelines) after conducting a dispatch diagnosis and load-flow analysis
- List of sub-stations to prioritize for short term/medium term deployment of VRE and zones to prioritize for a longer-term deployment of VRE (including transmission lines)
- List of solar and wind sites identified

## **INDIVIDUAL / FIRM PROFILE**

The consultant will be a firm.

## ***SUBMISSION REQUIREMENTS***

The World Bank Group now invites eligible firms to indicate their interest in providing the services. Consultants may associate to enhance their qualifications. The interested consortia are requested to produce a proposal of maximum 10 pages including: (i) relevant experiences of the consortium members with regards to the proposed assignment (including local experience) (ii) understanding of the assignment linked to the consortiums experiences and (iii) identifying local members of the consortium as the case may be.

Interested firms are hereby invited to submit expressions of interest.

Expressions of Interest should be submitted, in English, electronically through World Bank Group eConsultant2 (<https://wbgeconsult2.worldbank.org/wbgec/index.html>)

## **NOTES**

Following this invitation for Expression of Interest, a shortlist of qualified firms will be formally invited to submit proposals. Shortlisting and selection will be subject to the availability of funding.



**EMA**

Euro-Mediterran-Arabischer Länderverein  
المنظمة العربية الأورومتوسطية للتعاون الإقتصادي  
Euro-Mediterranean-Arab Association

Only those firms which have been shortlisted will receive notification. No debrief will be provided to firms which have not been shortlisted.

### **Attachments**

- Optional TOR File : [https://ema-germany.org/New%20Website%20Media%202021/DE/Tender/2021/07\\_July\\_Edited/2021-07-13/2021-07-13-5\\_1.pdf? t=1626188221](https://ema-germany.org/New%20Website%20Media%202021/DE/Tender/2021/07_July_Edited/2021-07-13/2021-07-13-5_1.pdf? t=1626188221)

### **Qualification Criteria**

- 1. Provide information showing that they are qualified in the field of the assignment.
- 2. Provide information on the technical and managerial capabilities of the firm.
- 3. Provide information on their core business and years in business.
- 4. Provide information on the qualifications of key staff.

\* - Mandatory

Assignment

Title: 1275710

Electronic Submissions through World Bank

Group eConsultant2

<https://wbgeconsult2.worldbank.org/wbgec/index.html>

This is an announcement from the World Bank's e-Consultant2 system. Please refer to <https://wbgeconsult2.worldbank.org/wbgec/index.html> for the official announcement as well as for any updates.