

Call for proposal Terms of Reference & Scope of Work

Conducting an economic feasibility study for solar farm investment opportunities in the Jordan River Valley

Introduction

EcoPeace Middle East is a unique regional environmental organization that works on the promotion of cooperative efforts to protect the shared environmental heritage. EcoPeace seeks to advance sustainable development projects to enhance the economic wellbeing of Jordan Valley residents and the Jordanian public in general.

In 2015 with the support of the EU, EcoPeace launched the first-ever integrated national and Regional Jordan Valley Master Plan (JVMP) for the rehabilitation and sustainable development of the Jordan Valley basin.

Advancing the investment strategy described in the JVMP can serve as an engine for economic development (increasing the GDP of the Jordan Valley basin from \$4 million to \$73 million annually), rehabilitation of the Jordan River, and stabilizing the northern part of the Dead Sea.

The Jordanian master plan was adopted by the Ministry of Water and Irrigation after being approved by the Cabinet.

Objectives:

The aim of this assignment is to build a momentum, target and encourage the private sector and investors to develop sustainable businesses in the JV.

EcoPeace Middle East is looking into the overall feasibility and economic viability supporting **solar renewable energy to the farmers** in the Jordan Valley.

Description of the Assignment

The overall aim of the assignment is to build a financial and technical feasibility study to develop solar farms to the farmers in the Jordan valley to help them reduce the cost of electricity and increase their productions and competitiveness.

The solar farm project will be designed as wheeling B.O.T. agreement, this study will: -

- Determine the optimal size of the project; MW.
- Determine the site location for building the Solar farm
- Categorize different level of electric consumption and payback strategy.

Required solar farm feasibility study must include:

- Market analysis; and the full assessment of the supply and demand of the Jordan valley agricultural sector.
- Desk research: collect data and information regarding the electricity consumption of Jordanian farmers in the Jordan valley.
- Field research: provide complete overview of the Jordan Valley farms legal situation.
- Total current demand: identify the current demand.

- Number of farmers willing to switch to PV.

Technical analysis

- Wheeling Operational process.
- Type of technology and the quality control system that will be applied.
- The investment requirement of the solar farm in terms of resource , equipment, facilities, technology and labor
- The estimated total cost of the investment needed by the type of assets
- Production capacity

Financial analysis.

- Identify cost assumptions
- Identify the source of revenue and develop revenue assumptions.
- Estimate head count requirements and operational expenses in the projection period
- Identify other expense items and develop relevant assumptions throughout the projection period
- Compute suitable investment evaluation indicators (IRR, payback period, NPV, ROA, ROI, etc.)
- Calculate the number of years under BOT
- Identify the cost for each farmer/kWh

The following criteria must be included in the Feasibility study:

- Environmentally sustainable project
- Investment development project
- The project should serve farmers within the Jordan Valley.

Required Qualifications of the consultant

- Extensive experience in conducting feasibility studies/ business cases and a track record in Economics and Business Development.
- Knowledge in the Applicable Fields of sustainable development, environment, Renewable Energy and.
- Knowledge on the region of the Jordan Valley
- Past experience in market research and writing of business reports
- Outstanding research and analytical skills.
- Excellent writing, presentation and reporting skills

Tender procedures

Interested consultants/firms are required to submit their technical and financial proposals to Ecopeace Middle East Jordan within 15 working days of receiving the TOR. The technical proposal must contain a detailed deliverables schedule on submitting the economic feasibility study/business case. Interested applicants should submit their technical and financial proposals to M. Nour Abu Laban Nour @ecopeace.org