



## REQUEST FOR INFORMATION (RFI)

This notice is placed by UNGSC. The accuracy, reliability and completeness of the contents of furnished information is the responsibility of UNGSC. You are therefore requested to direct all queries regarding this RFI to UNGSC using the fax number or e-mail address provided below.

**Title of the RFI:**

Request for Information for the Design, Supply, Installation and Commissioning of Modular Portable Containerized Solar-PV System for various UN Mission Locations

**Date of this RFI:** 28 June 2022

**Closing Date for Receipt of RFI:** 29 July 2022

**RFI Number:** RFIUNGSC19950

**Beneficiary Country/Territory:** Global

**Commodity/Service category:** Engineering Design and Construction

**Address RFI response by fax or e-mail to the Attention of:** Sasa Murganic

**Fax Number:** n/a

**E-mail Address:** unlb-procurement@un.org

**UNSPSC Code:** 26131507

### DESCRIPTION OF REQUIREMENTS

**1. Background:**

Most of UN field missions, especially the ones located in remote places, mainly rely on generators for the provision of energy to civilian and military camps. This solution has an high impact on both financial and environmental resources.

Considering that:

- generators emit particulate matter containing burnt hydrocarbons and oxides of nitrogen, which add to air pollution
- the price of diesel will continue to rise due to regulations
- generators need regular maintenance to keep them running
- fuel injection system and other parts are more likely to break down, resulting in lack of reliability and high costs for spare parts

the United Nations would like to assess if Modular Portable Containerized Solar-PV Systems could represent a valid alternative to generators and other conventional existing systems with focus on innovation and incorporation of new technologies practices for living and working well-being.

**2. Objective:**


The purpose of this RFI is to provide the United Nations (UN) Source Support Unit, Solution Factory Team, and UN Global Service Center (UNGSC) with the available knowledge and capabilities of the market with respect to latest technologies, solutions, systems, potential vendors for the provision of Modular Portable Containerized Solar-PV Systems.

This request intends to receive information to identify suppliers with verified technical and financial capacity to provide the goods and related services.

The gathered information will be used to determine the technologies feasibility, scope, cost estimate, timeframe, and resources required by the UN.

UN expects to follow this RFI with an on-site demonstration in Brindisi/Italy (please refer for details to Para 6.g "Prototype Showcase") and a possible Request for Proposal (RFP) that will be able to meet the operational requirements of the United Nations Global Service Centre (UNGSC) and both Peacekeeping and Political missions worldwide.

The outcome of this RFI will help UN to evaluate available options for the replacement plan of conventional energy system with Modular Portable Containerized Solar-PV System to drastically reduce the environmental footprint at mission locations.

### 3. Use of Information:

- All costs for preparing a response for the RFI must be covered by the vendor.
- The requested information will only be used by the UN for internal planning purposes, be kept strictly confidential and only authorized personnel will have access to it.
- The response to this RFI will not be used to pre-qualify vendors.
- The provided information will not be contractually binding to the vendor.

### 4. RFI Response Delivery:

As the objective of this RFI is to both gather information on the latest technology and find potential vendors, your willingness and ability to reply will be of mutual benefit.

Please email your response to [unlb-procurement@un.org](mailto:unlb-procurement@un.org), additional material can be delivered and addressed to:

Attn: Chief Procurement Officer UNGSC Procurement  
Piazza Del Vento, 1 Brindisi 72100, ITALY  
Marked: Modular Containerized Solar PV

### 5. Basic Requirements:

The proposed Modular Portable Containerized Solar-PV System will consist in a pre-installed, wired and configured for plug and play installation in less than 8 hours. The fully containerized solutions will include the following components:

- 20 or 10-ft fully furnished shipping containers, insulated with lighting and air-conditioning unit
- pre-assembled solar PV panels, for roll-in/roll-out deployments and demobilization
- pre-installed and wired DC string paralleling panels, AC combiner box, and load distribution panel.
- racked lithium-ion energy storage systems (ESS)
- pre-installed, wired and configured solar PV and battery inverters
- preassembled mounting structure, deployable for quick ground mounting or container roof mounting
- pre assembled and interconnect AC and DC power cables
- built-in cable entry boxes for the load and external back up diesel generator
- be mobile and self-contained



- be based on a modular concept with the possibility to customize the size of the facility based on the size and requirement of a camp
- be a sustainable alternative to existing conventional power system, 100% reliable commercial power
- be fully automated operation (backup diesel generator) with remote monitoring and control
- be ready to connect multiple systems to meet any load (with minimum two 120V/20 and minimum one 240V/50A outlet)
- guarantee rapid deployment to missions locations and short supply and installation lead times
- minimize the negative impact on the environment throughout their lifecycle
- be suitable for critical harsh weather and environmental conditions, and for different climate zones (e.g., desert, tropical country, etc.)
- be very quickly installed at missions locations
- be optimized at every stage of a product's life cycle including design, manufacture/construction, packaging, transportation, energy optimization, energy efficiency, repair, reuse, remanufacturing, refurbishing, and recycling.

## 6. Documents submittals:

### a. Cover Letter

The cover letter shall include the following:

- The legal name and address of respondent
- The name, title and telephone number of the individual authorized to submit information
- A statement that the respondent has read, understands, and agrees to all provisions of the RFI

### b. Brief Presentation of Project Proposal

Respondents should provide a brief summary of their approach and concept of Modular Portable Containerized Solar-PV System.

The proposed system should include all features mentioned in this RFI and with assumption the potential Demonstration Project will be designed on the size of 20' sea-container and located in UNGSC, Brindisi, Italy.

The presentation should include a brief, clear and concise explanation of the product and service: brief design concept and/or reference to similar completed projects (description and images), brief statement on potential expansion of system in the future, brief description of sourced materials and recycled materials used for the installation (if any), etc.

### c. Installation/Construction Methodology

Respondents should include brief explanation of installation process: number of required personnel on site, required expertise, equipment needed and any other relevant.

### d. Transportation

Respondent should provide description of any specific shipping requirements.

### e. Cost estimates

Respondents should provide an estimated total cost for the proposed 20' sea-con module. The estimation report should include key cost categories such as materials, manufacturing, installation and commissioning cost.

### f. Timelines

Respondents should provide an estimated timeline for delivering of the demonstration project. The timeline should include estimates for design, installation and commissioning.

### g. Prototype Showcase

UNGSC will host two high-level conferences for UN Chiefs of Engineering from all UN Peacekeeping



operations and a Conference on Category Management for UN Facilities and Infrastructures. We believe that conference participants would be very keen to be introduced to some of your products/past projects, especially the new proposed Modular Portable Containerized Solar-PV System.

We also believe that an on-site presentation of such a model and any other related products would be an excellent opportunity for your company to present itself to the United Nations while also gaining a better understanding of the potential UN future demand for Modular Portable Containerized Solar-PV Systems. Therefore, we would encourage you to consider an on-site demonstration of the (full/scale or reduced proportional model) during the conference. Please note that all costs related to the product on-site presentation/demonstration would be at your own cost, and the UN will not refund or pay for any expenses related to such presentation.

You are kindly requested to confirm your willingness to participate in your product presentation in response to the RFI. UNGSC will, in case of the acceptance, coordinate with your representatives the date/time for the production at UNGSC Brindisi, Italy.

Kindly note the the two events are scheduled for the beginning of September 2022.

#### 7. Important - Registration as a United Nations Vendor:

Please note that companies willing to participate in a potential RFP solicitation will have to be a registered vendor with the UN.

Please access the Vendor Registration Application Forms and follow instructions at the website: <https://www.un.org/Depts/ptd/vendors/vendor-registration-0>

Please submit applications as soon as possible.

#### **SPECIFIC REQUIREMENTS / INFORMATION (IF ANY)**

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#### **NOTE**

Information on tendering for the UN Procurement System is **available free of charge** at the following address: <https://www.ungm.org/Public/Notice>

Only the United Nations Global Marketplace (UNGM) has been authorised to collect a nominal fee from vendors that wish to receive automatically Procurement Notices or Requests for Expression Of Interest. Vendors interested in this Tender Alert Service are invited to subscribe on <http://www.ungm.org>



***Vendors interested in participating in a potential future solicitation process should submit the Vendor Response Form of this RFI electronically (through the link available on the next page) before the closing date set forth above.***



# VENDOR RESPONSE

## NOTICE

- Companies can only participate in solicitations of the UN Secretariat after completing their registration (free of charge) at the United Nations Global Marketplace ([www.ungm.org](http://www.ungm.org)).
- Please verify that your company is registered under its **full legal** name on the United Nations Global Market Place ([www.ungm.org](http://www.ungm.org)) and that your application for registration as vendor has been submitted to the **UN Secretariat** in the same site, to be able to participate in any potential solicitation process as a result of this RFI.
- While companies can participate in solicitations after completion of registration at Basic Level, we strongly recommend all companies to register at least at **Level 1** under the United Nations Secretariat prior to participating in any solicitations.

**PLEASE NOTE: You should submit your response to this RFI electronically at:**

<https://www.un.org/Depts/ptd/node/add/interest-expressed?EOI=RFIUNGSC19950>

**In case you have difficulties submitting your response electronically, please contact [unlb-procurement@un.org](mailto:unlb-procurement@un.org) directly for instructions.**



## RFI INSTRUCTIONS

### 1) Registering as a Vendor with the United Nations

Vendors interested in fulfilling the requirement described above must be registered at the UN Global Marketplace ([www.ungm.org](http://www.ungm.org)) with the UN Secretariat in order to be eligible to participate in any solicitation. Information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>.

#### **Prerequisites for Eligibility**

In order to be eligible for UN registration, you must declare that:

- A. Your company (as well as any parent, subsidiary or affiliate companies) is not listed in, or associated with a company or individual listed in:
  - I. the Compendium of United Nations Security Council Sanctions Lists (<https://www.un.org/sc/suborg/en/sanctions/un-sc-consolidated-list>), or
  - II. the IIC Oil for Food List website or, if listed on either, this has been disclosed to the United Nations Procurement Division in writing.
- B. Your company (as well as any parent, subsidiary or affiliate companies) is not currently removed or suspended by the United Nations or any other UN organisation (including the World Bank);
- C. Your company (as well as any parent, subsidiary or affiliate companies) is not under formal investigation, nor have been sanctioned within the preceding three (3) years, by any national authority of a United Nations Member State for engaging or having engaged in proscribed practices, including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice;
- D. Your company has not declared bankruptcy, are not involved in bankruptcy or receivership proceedings, and there is no judgment or pending legal action against your company that could impair your company's operations in the foreseeable future;
- E. Your company does not employ, or anticipate employing, any person(s) who is, or has been a UN staff member within the last year, if said UN staff member has or had prior professional dealings with the Vendor in his/her capacity as UN staff member within the last three years of service with the UN (in accordance with UN post-employment restrictions published in ST/SGB/2006/15).
- F. Your company undertakes not to engage in proscribed practices (including but not limited to: corruption, fraud, coercion, collusion, obstruction, or any other unethical practice), with the UN or any other party, and to conduct business in a manner that averts any financial, operational, reputational or other undue risk to the UN.

**For Registered Vendors:** Vendors already registered at the UN Global Marketplace with the UN Secretariat must ensure that the information and documentation (e.g. financial statements, address, contact name, etc.) provided in connection with their registration are up to date in UNGM. Please verify and ensure that your company is registered under its full legal name.

**For Vendors Interested in Registration:** Vendors not yet registered should apply for registration on the United Nations Global Marketplace (<http://www.ungm.org>); information on the registration process can be found at <https://www.un.org/Depts/ptd/vendors>. Vendors must complete the registration process prior to the closing date of the RFI. Vendors who have not completed the UNGM registration process with the UN Secretariat before the closing date of the RFI are not considered eligible to participate in the potential solicitation process related to the RFI. We strongly recommend all companies to register at least at Level 1 under the UN Secretariat prior to participating in any solicitations.

**IMPORTANT NOTICE: Any false, incomplete or defective vendor registration may result in the rejection of the application or cancellation of an already existing registration.**

### 2) RFI Process

Vendors interested in participating in the potential solicitation process should forward their information (as requested in the RFI) to UNGSC (UNGSC) by the closing date set forth in this RFI. *Due to the high volume of communications UNGSC is not in a position to issue confirmation of receipt of RFIs.*

Please note that no further details of the potential solicitation can be made available to the vendors prior to issuance of the solicitation documents.

This RFI is issued subject to the conditions contained in the RFI introductory page available at <https://www.un.org/Depts/ptd/rfi>.

