



## **Sustainability Consultant, Liberia Scope of Work**

### **About We Care Solar:**

[We Care Solar](#) addresses a critical aspect of global maternal and child health care – reliable electricity for essential lighting, emergency communication, and medical services. Since our founding in 2010, we have equipped more than 3,500 health facilities in more than 30 African and Asian nations with our compact, rugged Solar Suitcases, enabling health workers to provide critical medical care. We build local capacity and cultivate sustainability through our Solar Suitcase use and installation training workshops. In addition to leading effective on-the-ground programs, our advocacy efforts have stimulated broad initiatives on sustainable energy for women’s health.

We Care Solar is demonstrating the feasibility and impact of lighting every birth at the national level by spearheading countrywide programs in priority countries. Through the *Light Every Birth* campaign, we work with government, international non-profit organizations, civil society organizations, and UN agencies to provide every woman the opportunity to give birth in a government health facility with electricity and light. This campaign was first launched in Liberia in 2017 and in Uganda in 2018. Our goal is to highlight selected countries as “Models of Excellence” for electrification of maternity care –with a long-term vision of elevating the *Light Every Birth* campaign to a continental and global scale.

In an effort to *Light Every Birth* in Liberia, We Care Solar and partners have installed 435 Solar Suitcases in 430 health facilities across all 15 counties of Liberia. By the end of the project, we estimate that about 445 health facilities will have Solar Suitcases, and every public health facility in the country will have reliable electricity.

We Care Solar (WCS) is seeking a consultant (individual or organization) to work closely with WCS staff, appropriate bodies in the Liberian government (Gov’t), and other LEB stakeholders to develop and execute a maintenance plan for its Solar Suitcases.

### **Overview of the Solar Suitcase and Maintenance and Repair Needs:**

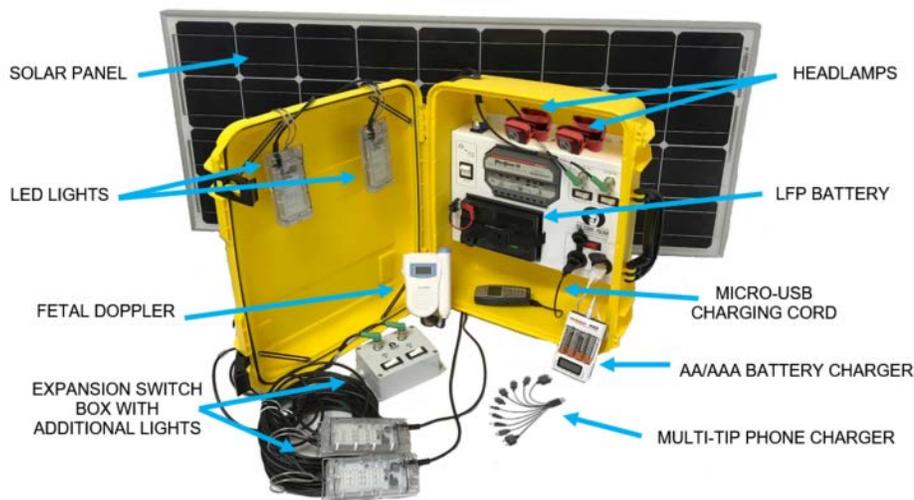
The We Care Solar Suitcase is a high-quality, self-contained, and easy-to-use solar electric solution designed for medical facilities in low-resource settings. The Solar Suitcase includes one 65-100watt solar panel, a lithium ferrous phosphate battery, a charge controller, two 12V DC outlets, and four LED lights (two connected to the Solar Suitcase and two connected through an expansion box).

When properly installed, used, and serviced, and with one battery replacement at 5 years, the Solar Suitcases and panels (excluding appliances) can last 10+ years. Other maintenance

tasks that might be required include repairing cables, cleaning the solar panel, training/re-training the health workers in use of the system and accessories.

The Solar Suitcase also comes with the following accessories: two headlamps, one rechargeable AA/AAA battery charger, one 2-slot USB adapter, micro-USB wires (for cell phones and charging the headlamps), one 10-in-1 USB phone charger, and one fetal Doppler. All of these appliances have a limited life span, and will need to be replaced.

Along with Solar Suitcases, We Care Solar provides a supply of replacement parts.



### **Sustainability Consultant Scope of Work:**

Using knowledge of existing frameworks for maintaining solar equipment and health facility equipment in Liberia, the consultant will propose and execute a maintenance plan for long-term sustainability of the Solar Suitcases, including but not limited to the following activities:

- Develop a system for identifying and responding to problems with the Solar Suitcase, including:
  - Researching the feasibility, cost, and logistics of developing an SMS system whereby health workers can report a problem with the Solar Suitcase via SMS and the appropriate technician(s) can be alerted to the problem and undertake repairs.
  - Based on the above research, propose a plan for identifying and addressing maintenance issues.
- Identify a storage location and manage an inventory of replacement parts, supplied by We Care Solar.
- Determine how Solar Suitcase maintenance can be incorporated into existing Gov't maintenance programs.
- Working closely with the Ministry of Health, plan and execute regional trainings to teach county health technicians how to maintain the Solar Suitcase and how to teach health-workers to use the Solar Suitcase and equipment.
- Work with County Health Teams to conduct assessments of all installed We Care Solar Suitcases, create/update mapping of them, retrain health workers, and perform maintenance as needed to ensure they are fully functional.

- Pilot the proposed maintenance plan in one or more counties to ensure its viability before implementing across all counties.
- Research and recruit a technical organization or individuals to:
  - Lead the regional trainings
  - Conduct assessments and maintenance of Solar Suitcases alongside the County Health Teams as needed
  - Provide long term maintenance and servicing of the Solar Suitcase as needed

**The ideal candidate should have the following qualification and experience:**

- Experience working with the Liberian government both at the national and county level, ideally with the Ministry of Health and County Health Teams
- Experience organizing trainings or other events
- Experience automating systems through SMS or other cell phone-based service
- Demonstrated success in program management and ability to manage and organize multiple projects
- Exceptional communication skills. Ability to communicate through email and across different time zones.
- Proficiency in written and spoken English required.
- Experience working with Governments and NGOs to develop long term sustainability and/or handover plans preferred
- Familiarity with the We Care Solar Suitcase preferred
- Residence in Liberia required

**Tentative Timeline:**

The consultant period will take place over one year from August 2019 – July 2020.

August 2019 – October 2019	Conduct research, meet with Gov’t and stakeholders, and develop maintenance plan
October 2019 – December 2019	WCS to ship spare and replacement parts from the United States to Liberia
January 2020– February 2020	Pilot maintenance plan in selected regions including one regional training and in-person visits to health facilities
March 2020 – July 2020	Rollout maintenance plan to other regions and handover to Gov’t and solar company

**How to Apply:**

We encourage both individuals and organizations to apply. If you are interested in being considered for this consultancy, please send your CV to [recruitliberia@wecaresolar.org](mailto:recruitliberia@wecaresolar.org). If you are applying as an organization, please send the CVs of staff that would be leading this project. Please include a statement that explains your interest in the position, qualifications, and abilities to perform the key responsibilities.

***The deadline to apply is August 15<sup>th</sup>, 2019.***