

Solar2World Product Donation Program & Application

Americas Region



Introduction:

SolarWorld's "Solar2World (S2W) Product Donation Program" makes module grants that bring our solar products to qualifying nonprofit organizations in the Americas. S2W helps recipient organizations support regional development by means of aid projects for rural electrification based on solar power solutions. Our decentralized off-grid solutions offer people in off-grid regions access to electric power, one of the fundamental elements needed for further economic and social development.

We specialize in partnering with non-profit organizations in the Americas who are working in one of our two funding areas: Basic Human Needs and Access to Quality Education. Together, we build innovative off-grid solar solutions that improve the quality of life in these communities.

Eligibility Requirements:

Please take a moment to review our Eligibility Requirements, prior to completing the application.

Organizations must:

- Be a US-based public charity that is non-profit and tax-exempt per Section 501(c)(3) of the Internal Revenue Code. OR Be a non-US-based non-profit similarly recognized as a charitable organization in your country.
- Refrain from discrimination in provision of service, employment, and hiring along the lines of race, color, religion, sex, gender expression, physical appearance, language, education background, national origin, age, disability, veteran status, or any other categories protected by applicable United States law.
- Have a non-religious primary purpose. Social service groups sponsored by a religious organization and serving the community at large are eligible. Houses of worship or institutions whose sole curriculum is religious education (e.g. seminars) are not eligible.
- Have overhead expenses that do not exceed 25% of total operating budget.
- Have the technical capability to install and maintain the proposed solar power system.
- Be capable of training the system operators to maintain, trouble shoot and report on the system performance. (Annual energy production reports for the first 5 years are a minimum requirement for recipients)

The proposed project must meet the following requirements:

- The project addresses one of the Solar2World funding priorities
 - **Basic Human Needs:** Overcoming the cycle of poverty and dependence through strategic partnerships that help to provide clean water, food, shelter, and other essential prerequisites to self-sufficiency. In the area of health care, we support community health care organizations, clinics and hospitals.
 - **Access to Quality Education:** Creating educational opportunity and providing underserved students the chance to thrive.
- The project recipients (end users) do not have reasonable access to an electrical grid.
- The project recipients (end users) must be capable and willing to maintain the PV system and report at least annually on its energy production and benefits for the first 5 years of operation or longer.

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Scope of Donation:

Solar World supports selected solar power projects with photovoltaic panels only. The remaining costs for additional components, such as power electronics, racks, batteries, etc., must be supplied by the applicant or partner organizations.

Delivery:

Solar2World donations for the Americas are delivered at the most appropriate SolarWorld facility in the USA. Shipping and import/export duties are the responsibility of the partner organizations. Most non-profit NGO's can import equipment duty-free into most countries.

Reporting and Performance Tracking:

Annual reports detailing the project's performance with pictures, a written report and, if available, monitored data and any technical issues must be delivered to SolarWorld each year following commissioning of the project for the first five years. Failure to adequately report performance may result in the recipient or project partners becoming liable for the cost of the donated equipment per the Solar2World contract. More frequent reporting is encouraged.

Application Overview

S2W's Product Donation application for US-based organizations consists of these sections, each of which must be fully completed. They are:

1. Contact information for your organization.
2. Information about your organization and any partner organizations.
3. Information for the proposed product donation your organization is submitting for approval.
4. The population to be served by this proposal.
5. Financial details regarding this proposal, and your organization.
6. Required legal certifications.

Contact information for your organization.

First Name:	<u>George</u>	Business Phone:	<u>843-769-7395</u>
Last Name:	<u>Greene</u>	Call Phone:	<u>843-367-8998</u>
Address:	<u>2049 Savannah Hwy</u>	Fax:	<u>843-763-6082</u>
City:	<u>Charleston</u>	Email:	<u>ggreeneiv@watermissions.org</u>
State:	<u>South Carolina</u>	Job Title:	<u>VP International Programs</u>
Zip:	<u>29407</u>		

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Information about your organization.

Organization's Name: Water Missions International **Phone:** 843-769-7395

Address: 2049 Savannah Hwy **Fax:** 843-763-6082

City: Charleston **URL:** www.watermissions.org

State: South Carolina

Zip: 29407

Organization Details: (Please attached supporting documents and organization/project descriptions if applicable)

Item:	Response:
Organization's Primary Focus: <i>Briefly state your organization's primary focus.</i>	<u>Bringing access to safe water and sanitation in development and disaster response situations</u>
Geographic Scope/Reach: <i>Briefly state the scope of your organization's service operations.</i>	<u>Global – we have fulltime staff in Mexico, Honduras, Haiti, Uganda, Kenya, Malawi, Sri Lanka and Indonesia</u>
Organization's Mission: <i>Provide organization's official, board-approved mission statement.</i>	<u>Our goal is to provide sustainable access to safe water so that no person should perish for want of safe drinking water.</u>
Organization Founding Date: <i>Provide the date of your organization's founding.</i>	<u>July 2001</u>
Overview of Organization: <i>Provide a brief overview of your organization (accomplishments, overall goals, etc).</i>	<u>Water Missions International is a Christian, nonprofit organization that provides clean, safe water to people in developing countries and disaster areas through a variety of technologies.</u>
Overview of Partner Organization: <i>Please complete the above forms for any partner organizations contributing funding, in kind (product/service) or labor necessary for the successful completion of the project.</i>	

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Information for the proposed product donation:

SolarWorld supports selected solar power projects with in-kind contributions of solar modules and related equipment. The remaining costs for additional components, such as power electronics, racks, batteries, etc., must be covered by the recipient or project partners.

Item:	Response:
Project Location: Country, location name	Haiti
Proposal Title: Enter the name (or a descriptive title) of the specific program/ project seeking support.	Haiti 2010 Earthquake Disaster Response Effort
Technical point of contact: Organization name, contact name, phone, & email for person responsible for the actual installation.	Jullio Paula – Haiti Country Coordinator 760-927-2137 jpaulia@watermissions.org
Alignment to high-priority areas: How does this proposal address Basic Human Needs and/or Access to Quality Education?	This project is meeting the most basic of human needs – access to safe drinking water
Previous Successes: Briefly describe the most similar project your organization has taken part in. What were the objectives? What people were helped and how? What role did your organization play?	WMI provides access to safe water in most major disasters. The last project that involved solar powered water treatment systems was actually in Haiti in response to four hurricanes that consecutively hit Haiti in 2008. WMI ended up installing 10 water treatment systems that provided water to ~30k people.
Mission Metrics: Please provide details as to how your organization will measure the impact of the proposed project on the local community and how it aligns with your organization's mission.	Our immediate goal is to provide these systems as disaster relief. We will have estimates for daily water production as well as number of people served. As we have a program in Haiti, it is our goal to transition all projects into development projects. These will be evaluated on a case by case basis and if a system installed for disaster response is not needed for long term use, then it will be relocated to a needy area for development purposes.

Field Code Changed

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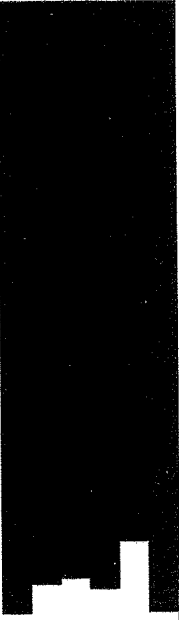


Item	Response
<p>List appliances that will be needed/connected for this project:</p>	<p>Please fill out the table in Appendix A on p. 8 carefully and completely.</p> <p>Components of Solar off-grid systems (details in Appendix B)</p> <ul style="list-style-type: none"> • Solar Modules: They convert sunlight into electrical energy. • Batteries: They serve as energy storage, so even at night or during bad weather, sufficient energy is available. Water pumping systems with storage tanks may not require batteries • Charge Controller: It forms the link between solar module and battery and ensures that the batteries are optimally charged and protected. • Inverter: It converts the direct current (DC) delivered from batteries and solar modules in alternating current (AC), allowing any domestic appliance to be powered by the solar energy system. <p><i>Note: For determining the correct number of solar modules necessary for this project, a detailed list of the appliances to be connected for the off-grid solution is needed. Please specify the needed power in Watts and the number of operating hours for both day and evening use necessary for each appliance. Also identify the need for direct or alternating voltage (expressed in volts) for each appliance.</i></p>
<p>How important is an uninterrupted power supply? Please describe.</p> <p><i>Does a temporary power outage have serious consequences? (e.g. cooling of medicine) In this case, a back-up generator should be integrated to the system.</i></p>	
<p>Installation site of the solar modules?</p> <p><i>Flat roof, slope roof, or on an open space (if roof assembling needed please give details of the roof slope and orientation)</i></p>	<p><u>These will initially be installed on the ground and we will look to go to roof top installations as the projects transition into development projects.</u></p>

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<p>Are other manufacturers participating in the project? Please list any donations secured or planned for components not provided by S2W.</p>	
<p>Does your organization and/or partner organizations have sufficient technological knowledge for constructing and operating a solar energy system? Please describe. <i>If not, we may refer you to another NGO or SolarWorld partner with the necessary skills and experience.</i></p>	<p>Yes</p>
<p>Who is responsible for press and PR for your organization? a) in the U.S.? b) in the destination country?</p>	<p>A) Lindsay Wine – Communications Specialist - lwine@watermissions.org – 843-769-7398 B) Pat Haughey – Director of International Programs - phaughey@watermissions.org</p>

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Legal Certifications:

Please acknowledge your review and acceptance of the following via your signature on the final page of this application:

Board Review/Approval

At least one officer of our nonprofit organization's board has reviewed this application, and the entire board has knowledge of and supports its submission.

Accuracy Certification

(1) I completed this form, and the information I provided is true and accurate to the best of my knowledge; (2) The organization that I represent complies fully with the policies stated in the eligibility requirements section at the beginning of this application form; and (3) Any assets donated will be utilized in the manner specified in this application."

Acceptance of Review

I understand that all applicants are subject to reviews of their representations in this application and (for grantees) their compliance with the grant contract. I understand that the organization I represent may be required to return any granted assets and forfeit future funding eligibility if: (1) the review reveals any significant inaccuracies or violations of the policies stated above; or (2) the organization does not cooperate with the review or requirements of the grant contract.

Signature:

Date:

1/18/10

Print Name:

TERRIE C. GREEN

Title:

VP INST. PROGRAMS

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Appendix A: List of appliances to be connected. Note: If as part of the project, the acquisition of new electrical equipment is considered, they should be the most energy efficient as possible. This helps to decrease the total cost of the solar energy system.

Appliance	Power consumption in Watts	Quantity	Daily running hours (1...24)	Days per week used (1...7)	DC or AC voltage	Percentage of daytime use (0...100%)
sample appliance 1 (e.g. Energy saving light)	11	3	4	7	DC	0%
sample appliance 2 (e.g. Laptop computer)	50	1	6	5	AC	75%
Grundfos SQ Flex Pump	700-1400	100	8	7	DC	33%

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Energy Efficiency

It is very important to ensure that the appliances used are as efficient as possible to minimize the required size and cost of the PV system. As shown in the figure below, replacing the appliances with more energy efficient versions more than pays for itself in off-grid applications.

