

Working with in-country partners to install renewable energy and water systems in rural villages around the world since 1997.



green empowerment





Fabian H. leads instruction in 2013 during a RedBioCOL field workshop in Colombia.

Biodigesters turn manure into methane gas for household uses like cooking, lighting, and natural fertilizer for crop production.

Photo by University of Tropical Agriculture (UTA) Foundation's Lylian Rodriguez.

Local Non-Profit Partners (NGOs)

Burma/Thailand

Border Green Energy Team (BGET), Mae Sot

Colombia

Fundación para la Producción Agropecuaria Tropical Sostenible (Fundacion UTA), Santander

Centro para la Investigación en Sistemas Sostenibles de Producción Agropecuaria (CIPAV), Cali

Ecuador

Fundación Ecuatoriana de Tecnología Apropiada (FEDETA), Quito

Honduras

Zamorano University, Francisco Morazan

Kenya

Matonyok Nomads Development Organization (MANDO), Nairobi

Malaysia

Tonibung, Sabah, Borneo

Nicaragua

Asociación Fénix, Managua

La Asociación de Trabajadores de Desarrollo Rural-Ben Linder (ATDER-BL), Matagalpa

Peru

Soluciones Prácticas, Cajamarca, Cusco and Lima
Desarrollo Sostenible en Acción (DESEA), Lamay

Philippines

Alternative Indigenous Development Foundation Inc. (AIDFI), Bacolod, Negros Occidental

Philippines Center for Water and Sanitation (PCWS), Quezon City

Wellspring of Science and Technology (SIBAT), Quezon City

Water, Agroforestry, Nutrition and Development Foundation (WAND), Misamis Oriental

YAMOG, Davao City, Mindanao

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Green Empowerment's Executive Director
Anna Garwood

Green Empowerment Team

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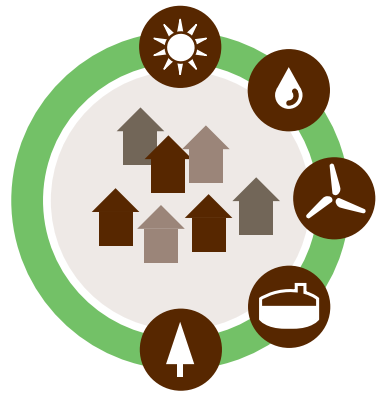
¹ Staff starting in 2014

² Amy Reaney left Green Empowerment in January, 2014

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Our Mission



Green Empowerment works with local partners around the world to strengthen communities by delivering renewable energy and safe water.

How We Work



Partner with local non-profits (NGOs) in each country and provide needed resources, technical expertise, funding and networks.

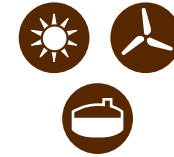
Train motivated communities to install, maintain and pay for their own energy and water projects. Projects are sustainable when they are organized locally and combined with environmental protection.

Inspire other communities to pursue clean water and electricity **for the first time.**

Why Water and Energy?



Water: Clean water to drink, building latrines and hand washing education reduces illnesses and saves lives.



Energy: Renewable energy for homes, clinics, small businesses, and schools generates income, improves health and creates opportunities.

Since 1997, thanks to supporters like you...

16,623
people
have safe
water to
drink



224,090
people
have access to
schools & clinics
that now have
electricity



24,568
people
power lights and
appliances
in their homes



2,579
acres
of rainforest
protected
forever



= 1,000 People
 = 100 Acres



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We triple your donations with additional revenue sources.



Olivia V. with clean water piped directly to her kitchen in El Balsamo, Nicaragua.

Photo taken in 2014 by Lineth Cerda, a young journalist from the Nicaraguan community of San Diego.



Community volunteers haul rebar for the reservoir tank of their ram pump water system. Photo taken in 2013 in Mampalam, Talipao, Sulu, Philippines.



Partners in Peru help families build simple (biosand) water filters and train community health promoters. Photo taken in 2013 by Green Empowerment's Anna Garwood.



Rosberg H. T., a water filter technician for DESEA, is preparing biosand filters for installation in Lamay, Peru. Photo taken in 2014 by Green Empowerment's Bryan Ferry.



New solar installation at the Free Burma Ranger office in Dooplaya District, Karen State, Myanmar. Photo taken in July 2014.

Philippines

- First two ram pump water systems were completed, providing nearly 5,000 people with safe water to drink. These systems are all part of Green Empowerment's USAID-supported program "Building Climate Resilience in Water Stressed Communities" (CREST), which will deliver clean water to 15,000 people by 2016.
- Schools in nine communities now have access to clean water provided by rainwater harvesting tanks, dignified toilet facilities for boys and girls, and handwashing stations.

Peru

- The health post at Quebrada Honda was outfitted with solar hot water heating, electricity (solar PV), and a simple electronic health record system. This project serves 120 families (approximately 600 people).
- Installation of a wind turbine at the Tarpuy children's home was completed in 2012, and in 2013 was connected to a water pump to provide drip irrigation for the orphanage's fig orchard. The income from fig sales supports housing and care for the children.
- The integrated "Healthy Homes" project for 65 families (325 people) was completed in two high Andean communities. Each home now has potable water, ecological bathrooms, electricity (solar PV), appropriate waste disposal, and improved cookstoves. With financial support from the municipal government, the program will be replicated in neighboring communities in 2014.
- Green Empowerment assisted its partner in Peru, DESEA, to expand its community health training and water treatment program to three additional communities.

Thailand/Burma

- Partner organization, Border Green Energy Team (BGET), installed 4 new solar energy systems to power health clinics and Free Burma Ranger (FBR) facilities in conflict-affected areas of eastern Myanmar. The systems provide power for a hospital, classrooms, student dormitories, and offices that support six FBR field teams, as well as a Karen Department of Health and Welfare (KDHW) medical clinic, which serves approximately 2,000 patients annually. BGET staff also provided training for 29 KDHW medics and FBR staff on proper installation, operation, and maintenance of the solar energy systems.



Trainees Denius and Aedon assemble a micro-hydro turbine at the CREATE center in Borneo. Photo by Green Empowerment's Gabe Wynn.



Carlos U. and intern Joel Aftreth plant a nancite tree. Photo taken in 2013 by Becky Miller, a Green Empowerment intern.



Construction of an improved cookstove by Toño, Chico, Pablo, and Panfilo in El Espino, Nicaragua. Photo taken in 2013 by Becky Miller, a Green Empowerment intern.



Improved cookstoves cut indoor smoke by over 90%! In the past four years, more than 55 cookstoves have been installed using locally-trained technicians. Photo of Nubia J. taken in 2012 by Green Empowerment's Caitlyn Peake.

Borneo, Malaysia

- Construction of the Center for Renewable Energy and Appropriate Technology (CREATE) in Sabah, supported by National Geographic, was completed utilizing salvaged wood, bamboo sourced from nearby micro-hydro powered communities, onduline roofing, and other sustainable materials.
- 15 micro-hydro trainees began their intensive training at CREATE in 2013, attending lectures, workshops and hands-on practical exercises at the center before completing their practicum: construction of a 16 Kw micro-hydro system, which now provides electricity to 400 people.
- Participants from 11 different countries converged at CREATE for a Southeast Asia Renewable Energy People's Assembly (SEAREPA) meeting, co-sponsored by Green Empowerment.

Nicaragua

- The El Bote Forest Reserve was expanded an additional 292 hectares (721 acres). It now protects 956 hectares of threatened tropical rainforest.
- Partner organization, the Association of Rural Development Workers-Benjamin Linder (ATDER-BL), completed integrated agroforestry projects in two communities, which included improved cookstoves, watershed education, shade-grown coffee cultivation, and other sustainable agriculture activities.
- Partner AsoFénix organized an improved cookstove fair attended by over 100 people from the community of El Balsamo, where Green Empowerment and AsoFénix are implementing an integrated project that will benefit 56 families with potable water, sanitation, improved cookstoves, environmental education, and patio gardens. In December, the solar water pumping system that will deliver clean drinking water to each home was nearing completion.
- In 2013, Green Empowerment and local partners welcomed students from Virginia Tech and Portland State University, as well as renewable energy professionals from Portland, to Nicaragua for week-long service learning experiences. Participants worked alongside community members and staff on renewable energy installations and sustainable agriculture initiatives.



RedBioCOL holds its first meeting in the summer of 2014 to expand national participation. Photo taken during a RedBioCOL workshop in 2013.



Corn mill owners in Kenya during a site assessment for a possible solar micro-grid installation. Photo taken in 2014 by Green Empowerment's Dave Van't Hof.



Fig orchard at the Tarpuy children's home, which is now irrigated with water pumped by a wind turbine. This project site was used for field study during the 2013 WindWorks symposium.



Measuring the percentage of methane in biogas during the RedBioLAC conference in Honduras. Photo taken in 2013 by Green Empowerment's Aaron Liss.

Colombia

- With support from Green Empowerment, the "Red Biomasa de Colombia" (RedBioCol) was launched, bringing together NGOs, academic institutions, farmer's cooperatives and businesses from across Colombia to expand the use of biogas and biomass for agricultural, waste management, and energy generation applications.

Kenya

- Green Empowerment developed partnerships in Kenya to pilot the use of solar micro-grids to expand energy access in rural communities. The micro-grids will replace expensive kerosene and diesel generators to provide light, cell-phone charging, and basic electricity for homes and power for grain mills, water pumps and other community businesses and uses. The micro-grids are designed and installed by Kenyan companies. Green Empowerment is working closely with a Maasai non-profit, MANDO, to establish complementary community-development projects, such as water pumping, electricity for clinics and micro-loans for small businesses. Green Empowerment and MANDO will also carry out a participatory evaluation in each community to assess the impact of the energy programs.

WindWorks

- In November, Green Empowerment and partner Soluciones Prácticas hosted the second WindWorks symposium in Lima, Peru. Over 100 practitioners from NGOs, businesses and government entities from throughout Latin America gathered to exchange best practices for scaling and promoting successful small wind power programs.
- Green Empowerment supported three organizations—SunSolar (Nicaragua), Waira (Peru) and Soluciones Prácticas (Peru) to conduct research and development for innovative small wind energy programs.

Network for Biodigesters in Latin America and the Caribbean (RedBioLAC)

- Green Empowerment organized the 5th annual conference of RedBioLAC, which took place at Zamorano University in Honduras. Over 80 biogas experts from throughout Latin America attended the event to exchange best practices and conduct field studies.

Our Donors

Thank You to All Our Donors!

Annual report online also includes donors that generously gave under \$250 in 2013, www.greenempowerment.org. Over 130 supporters wish to remain anonymous.

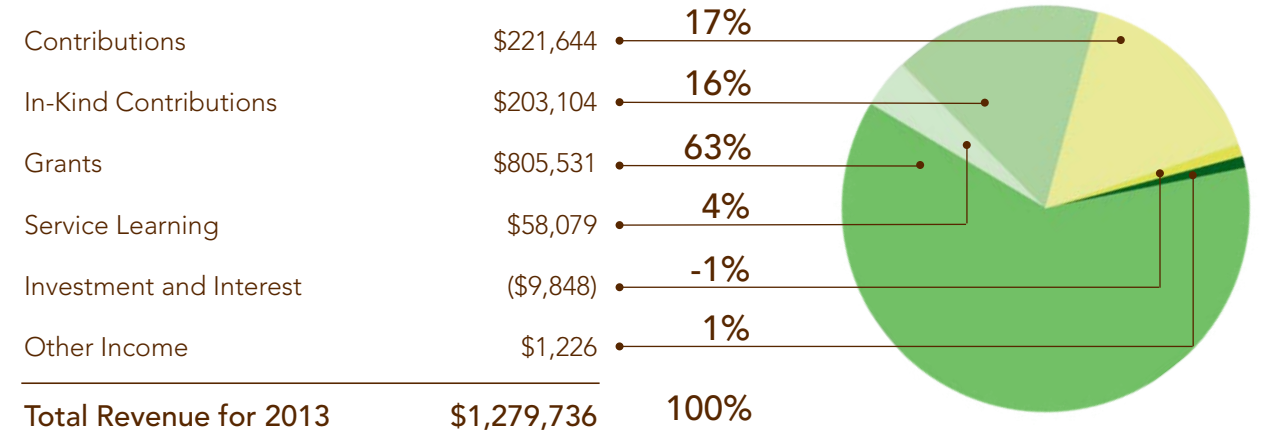
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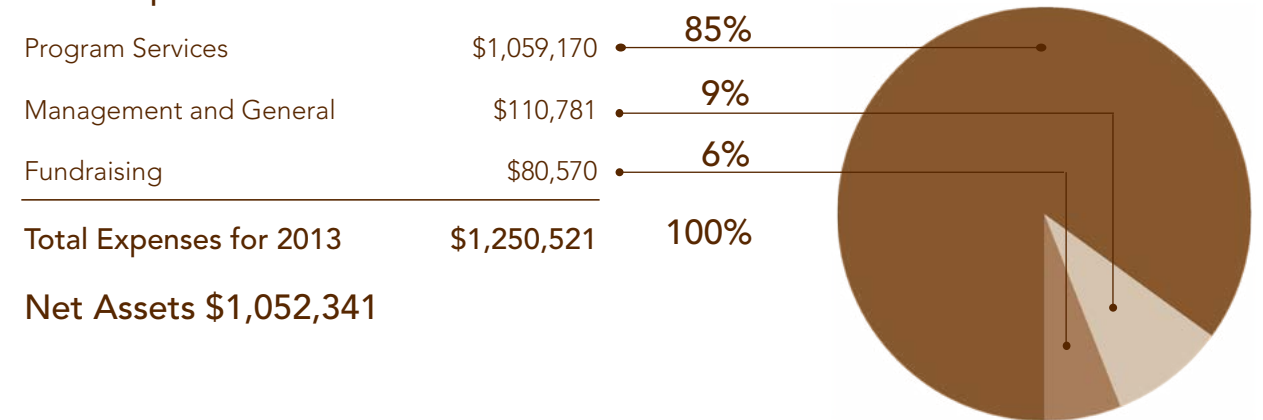
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2013 Revenue



2013 Expenses



Net Assets \$1,052,341

Green Empowerment's audited financial statements are available online at www.greenempowerment.org. 2013 financial statement audit was conducted by Richard Winkel, CPA.

Of the many Green Empowerment volunteers we have to thank for their time and expertise, efforts were significant from the following friends:

Suzi Asmus, Karen Bailey, Mallory Buck, Kathy Foldes, Maya Freeman, Lee Hunt, Jan Johnson, Karen Johnson, Erin Machell, Bruno Marastoni, Amanda Morse, Jay Moskovitz, Edwin Ojeda, Eric Pearson, Stephanie Swanberg, Tim Takaro

Overseas interns assisting Green Empowerment, their (NGO) partners and local community members:

Nicaragua: Joel Aftreth, Noah Bogdonoff, Ross Kirshenbaum, Becky Miller, Elijah Wilson
Borneo: Raveen Kulenthran

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Thomas Campbell, DesignMeister, Jan Fenton, Bryan Ferry, Eli Lamb, Oregon Community Foundation, Barbara Pizacani, Salesforce Foundation, Stumptown Coffee Roasters, Andy Szatkowski, Cathy Zegar

Thank you to Allison Tivnon and Mark Thomas for donating design services!



Our Mission: Green Empowerment works with local partners around the world to strengthen communities by delivering renewable energy and safe water.



green empowerment

Village Solutions for Global Change

Green Empowerment depends on generous individuals like you to make our life-changing work a reality.

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www.greenempowerment.org

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- Is Green Empowerment already in your will, trust or other estate plans? Thank you! Your gift may remain anonymous, but please let Green Empowerment know.
- Don't have a will or interested in adding Green Empowerment? Including Green Empowerment honors your family's legacy with gifts of safe water and clean energy.

Workplace Giving

Connect to Green Empowerment through workplace giving, event sponsorships or employee trips. Green Empowerment is a partner with 1% for the Planet, www.onepercentfortheplanet.org.



Cover Photo: Biosand filters, consisting of plastic containers filled with sand and gravel, are extremely effective at removing bacteria and pathogens from drinking water. This Peruvian family keeps their biosand filter in their kitchen. Photo taken in 2013 by Green Empowerment's Anna Garwood.

Photo Above: Darlene U. volunteers at AsoFénix and Green Empowerment project installation sites near her community in El Jocote, Nicaragua. Photo taken in 2013 by Joel Aftreth, a Green Empowerment intern.

Green Empowerment is a U.S. 501(c)(3) nonprofit organization founded in 1997.