

2022 ANNUAL REPORT

25 Years of Energy and Water at the Last Mile



green empowerment

VILLAGE SOLUTIONS FOR GLOBAL CHANGE



We envision an equitable and sustainable world where everyone has clean water, renewable energy, and a healthy environment in which to thrive.

To Our Global Community,

I am thrilled to share with you that in our first 25 years, Green Empowerment reached over 500,000 people with renewable energy and clean water solutions that last. Thanks to you, Green Empowerment continued to deliver on our mission, reaching over 83,066 people with partners in 2022 alone. We are now ready to exponentially expand our impact.

Starting 2022 stronger than ever created the opportunity to redefine our leadership structure: three regional program directors, each from the regions where they work, and two US-based team members focused on Fundraising and Finance round out our leadership team. This new structure is both a response to the growth we have had in the last three years and an investment in our future.

Looking to the next 25 years, we have created a roadmap for how to scale our work while staying true to our values by investing in four guiding pillars: Partner Success, Collective Empowerment, Innovation & Learning, and Organizational Growth. You will see through the stories in this report that our work is already deeply rooted in these pillars. Together with our partners, we aim to reach an additional 200,000 people in the next three years.

A personal highlight of mine from last year was inviting our international team to join us in Portland, OR to celebrate Passport to Empowerment, which was attended by over 200 guests. Two generous, anonymous supporters sponsored this travel including a staff retreat that greatly informed the strategic plan and provided an important opportunity for face-to-face team building after 2+ years of digital interactions.

I am immensely grateful to our boards, staff, and supporters like you for championing these changes and trusting me to lead us into the future. Thank you for your continued support of Green Empowerment.

Sincerely,

Andrea Johnson,
Executive Director



We Do It Differently

AUTHENTIC PARTNERSHIP: We collaborate with in-country organizations and follow their lead to ensure the long-term sustainability of our projects.

INCLUSIVE TRAINING: We provide technical, administrative, and program specific training for community members, supporting local maintenance and management of projects.

COMMUNITY DRIVEN ENGAGEMENT: Infrastructure projects are built and maintained by the community's citizens themselves.

MAXIMIZED IMPACT: We amplify our global impact through ground-up innovation, coalition building, and training programs.

In 2022 alone



83,066
people reached by Green Empowerment projects



8,967
people gained access to water or sanitation in their homes



72,760
people served by household, school, or health clinic energy projects



1,731
community technicians trained in operations and maintenance



182
communities with completed projects



55%
of women and girls in leadership roles in energy and water committees

2020-2022 Strategic Planning Cycle

In the last **three years** we reached **139,674 people** and completed projects with **238 communities**.



113,321
people served by health centers that gained access to electricity



15,474
people with household water access



20,742
people trained



PARTNER SUCCESS

In 2022, we worked with **21 partner organizations** to bring energy and water infrastructure to over **83,066 people worldwide**. When our partners succeed people gain access to life changing resources.

NICARAGUA



Community Owned Micro-utility

NICARAGUA | Partner: AVODEC

Despite unusually heavy rains causing landslides which damaged the initial construction, the people of El Sardinal persisted and built a micro-utility that delivers clean, potable water to all 50 families (200 people) in their community. A newly-formed water committee manages the operations, maintenance, and financial administration of the system. Hygiene training for school children and the general community maximizes health impacts of clean water access, and with the time they would have spent carrying water, community members now pursue educational, economic, and personal interests.



Energized Healthcare

UGANDA | Partners: Medical Teams International, Mandulis Energy

Together in 2022 and early 2023 we completed the installation of solar + storage systems for three health centers in rural Uganda. Solar energy replaces expensive diesel that was only providing 2-6 hours of electricity per day and storage allows for electricity through the night. The Ayiri, Nyumanzi, and Juru health centers now reliably operate on 24-hour renewable solar energy systems, increasing access to indispensable health services for over 82,000 people and improving maternal and child health services for local and refugee communities in rural Uganda.



Empowered Conservation

MALAYSIA | Partner: TONIBUNG

Long Tanid village in Central Northern Malaysian Borneo now has 24-hour access to electricity. An 11.6 kW micro-hydro system provides access to reliable and low-cost electricity to households in the village, allowing the community to access the internet, power household and business appliances, and support children's studies at night. Long Tanid's Micro Hydro Energy Committee was trained by TONIBUNG on micro-hydro components, assembly, and troubleshooting, ensuring long-term sustainability of the project. Conservation funding supported this project with community agreement to protect 1,379 acres of tropical rainforest.



Retrospective Program Evaluation finds 97% of our projects sustained over time.

482,808 people reached

25 Years of Impact

* Countries we are no longer serving





COLLECTIVE EMPOWERMENT

In the last three years we have developed **15 new partnerships**, co-created an exciting new coalition in Malaysia, and invested in cross-regional training for partners across the globe.

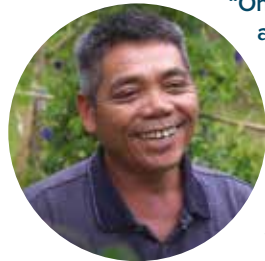


Green Empowerment and TONIBUNG staff field test measurement and communications systems.

The Road to Renewable Energy

MALAYSIA

Our team has been working in Malaysia for over 20 years, supporting partners to implement 31 energy projects to-date. Around 72% of rural Malaysians without access to electricity live in the state of Sabah, a region which also faces significant threats to its forest cover and biodiversity. To address these challenges, Green Empowerment and partners established the Sabah Roadmap Project to harness data and collaborate with the government to achieve 100% rural electrification without adding pressure to the environment. The project will electrify 203 villages in Sabah in the next 10 years, an acceleration in development powered by coalition building. We are proud to share that Sabah Roadmap was recognized with the Renewable Energy Markets™ Asia Awards in 2022 for an innovative approach to advanced modeling and implementation planning.



“Only a fraction of us are able to afford a genset (generator). So for those of us who are unable, it just is what it is. It’s just darkness. So it filled us with a lot of hope when we were introduced to a project like this that is community based.”

Juanis Malik, community leader in Tambunan 2, Tongod, one of seven communities chosen as demo sites for the Sabah Roadmap.

Forming Water Alliances

COLOMBIA

Revving up for an exciting new expansion of our programs in Colombia, Green Empowerment supported staff from two of our local partner organizations to attend a four day training on community water management. The course included both practical nuts and bolts topics such as basic concepts of hydrology and impacts on rural communities, as well as critical discussions on how we approach this work such as the gender approach in water decision-making scenarios. Historically our focus in the region has been in supporting technology for sustainable agriculture. Now we are exploring opportunities to bring our two decades of experience with water and sanitation systems to support new and current partners in Colombia as they grow their expertise and expand their programs.



Sara Marcela Alhucema (second from left), Executive Director of our partner El COMUN with Green Empowerment’s Colombia Program Coordinator, Paola Morena Bermudez (center) and additional Colombia partner staff.

“Not only were we able to have access to technical and academic information related to water management, but we also had the opportunity to exchange and learn about the experiences of people who have already been working on water management issues.”

Sara Marcela Alhucema



Green Empowerment staff and partners in Colombia attend a four day training on community water management.



INNOVATION & LEARNING

In 2022 we advanced our flagship innovation projects to ensure long-term sustainability of projects based on community-identified needs.

Bridging the Gap

In 2022, Green Empowerment made big strides with our DREAM tool and Smart Grids for Small Grids technological innovations. The DREAM tool was used to conduct an energy needs assessment in 14 health facilities based in Sierra Leone and Liberia. Through the DREAM tool, our partner Global Health Ministries was able to understand gaps in electricity access in their facilities, establish the total investment cost to electrify and replace diesel generators, and prioritize four health facilities to receive funding for installation of solar systems.

Smart Grids for Small Grids aims to develop open-source technology for more resilient, community-based renewable mini-grids. With our partners SIBAT and TONIBUNG, we researched, developed and tested our hand-made load management devices that enable monitoring and automatic control of appliances for micro-hydro systems to manage fluctuations in energy use. The technology was confirmed viable in the field. We are excited to share that in early 2023 this technology won the IEEE Empower a Billion Lives prize for Automatic Centric Solutions, which will provide financing for continued development and testing the technology at scale.

“The appliance controller [shows us] whether we need to be careful with our consumption so we will not overuse power. It would be very good to have one in every household.”

Irene Kodoyo, Headwoman of Buayan Village



Green Empowerment staff retreat Government Camp, Oregon

OUR PARTNERS

PROJECT IMPLEMENTATION PARTNERS

Bolivia: Soluciones Prácticas Bolivia
Colombia: EL COMUN
Ecuador: ALTROPICO, ENIGM
Malaysian Borneo: Forever Sabah, PACOS Trust, TONIBUNG
Myanmar: Border Green Energy Team
Nicaragua: ADDAC, ATDER-BL, AVODEC, CACAONICA, FEDICAMP
Sri Lanka: Janathakshan
The Philippines: SIBAT
Peru: Energía, Ambiente & Sostenibilidad, Water for People Peru
Uganda: Medical Teams International, Mandulis Energy

TRAINING PARTNERS

Colombia: UTA
Liberia: Global Ministries
Indonesia: AMAN
Malaysian Borneo: KOPEL
The Philippines: Yamog
Sierra Leone: Global Ministries

NETWORKS AND COALITIONS

Biodigester Network of Latin America and the Caribbean
Global PDX
The Power Partnership
Sabah Roadmap

OUR TEAM

STAFF

Alejandra Camacho: Program Manager	Mica Miro: Engagement Manager
Andrea Johnson: Executive Director	Nida Jafri: Energy Projects Coordinator
Natalie Deehan-Clark: Communications Coordinator	Olivia Nanfukye: Energy Analyst
Benaville Nagudi: Uganda Program Coordinator	Osbert Atwijukye: Africa Program Director
Chantal Ranzolin-Gamboa: Philanthropy Coordinator	Paola Moreno Bermudez: Colombia Program Coordinator
Dan Frydman: Project Engineer	Raven Walsh: Philanthropy Director
Gabriel Sundoro Wynn: Energy Access Lead	Sam Liebich: Admin Coordinator
Geo Corneby: Southeast Asia Program Director	Sam Schlesinger: WaSH Technical & Ecuador Program Lead
Katya Diaz Salcedo: Peru and Bolivia Program Coordinator	Sesbastián Salgado Troya: Latin America Program Director
Leona Wai: Malaysia Program Coordinator	Maria Espinoza: Nicaragua Program Coordinator
Maria Espinoza: Nicaragua Program Coordinator	Virginia Durost: Finance Director

BOARD

Joe Richards: Chair	Eli Lamb
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Claudio Pedretti	Steve Gretzinger
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Jacob Dodds	Zachariah Strassberg-Phillips
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Dexter Gauntlett	Nara Simha Kumar
Elise Kittrell	Nordica Maccarty
Jeff Hammarlund	Steve Meicke

VOLUNTEERS:

Anjulie Razak: Sabah Roadmap Project Intern	Design
Chris Baker: Technical Advisor	Lucy Felland: Communications Support
Chris Greacen: Technical consulting	Maggy Henry: Engagement Team Volunteer - Translation & Narration
Daniel Scholleart: Engagement Team Volunteer - Public Outreach	Oskar Kohlbrener: Knowledge Management
Elena Malpica-Vargas: Communications Support	Owen Beale: Communications Support
Emma Browne: Videographer	Vasty Jean-Francois: Communications Support
Ernie Brooner: Volunteer IT manager	
Gabriella Narvaez: Lead Creative Consultant, Website	

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ORGANIZATIONAL GROWTH

Thanks to supporters like you, our operating budget exceeded \$2 million in 2022. With these increased resources, we will reach an additional 200,000 people in the next three years.

Robert Haley



How to give

Mail checks to “Green Empowerment” at:
PO Box 8802, Portland, OR 97207

Visit our secure website or call us:
www.greenempowerment.org/donate
503-284-5774

Join the Reuss Legacy Circle:

Leave a legacy of a more equitable and sustainable world. Include Green Empowerment in your estate, retirement, life insurance or other financial plans and be part of this global community forever. Circle members make a lasting impact and receive exclusive benefits, including an invitation to our annual project tour, opportunities to connect one-on-one with staff, and more.

Give through your workplace.

Connect to Green Empowerment through workplace giving, event sponsorship or employee matching.

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

SUPPORTING OUR GLOBAL FUTURE

“I’ve included Green Empowerment in my estate plan. It’s consistent with my values: I support causes that go to improving people’s lives, not just in this country. We’re part of a global community and whatever works in the jungle of Peru, the mountains of Bolivia, or the rivers of Malaysia also improves the lives of everybody throughout the world. The Green Empowerment model is unique, very effective, and deserves everyone’s participation. Providing assistance through estate planning can be a relatively [simple] way for people to donate.”

Robert Haley is a veteran, practiced law, and has served on several non-profit boards, including Green Empowerment.



Financials

Thank you for supporting us in our 25th year of serving rural and Indigenous communities around the globe. In 2022, our expenses exceeded revenue due to a delay in program activities from the COVID-19 pandemic. In summary, we had program revenue recorded in 2020 and 2021 with the corresponding program activities expensed in 2022. Additionally in 2022, we made strategic investments in fundraising, with support from the M.J. Murdock Charitable Trust, that is positioning Green Empowerment for growth in 2023 and beyond.

At the time of publication, our annual audit was being conducted by Richard Winkel, CPA, Partner at Dougall Conrادية LLC. Detailed financial statements are published on our website.

