

2022

PODER Y LUZ



MAYA

Annual Report



During 2022, with your help



A new
Solar
School



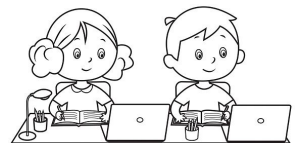
153 people with
solar lighting
kits



360 people
drink safe
water



Support of 75
Micro
Businesses



671 Young
people trained
in technologies

2022 HIGHLIGHTS OF THE PROJECT

At MPL.ONG we are committed to continue providing access to smart and environmentally sustainable solutions for the farming communities of the western highlands of Guatemala.

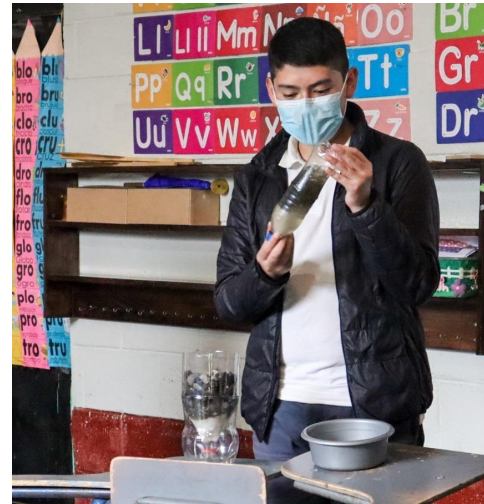


Solar Centers

In the month of February 2022, we managed to transform the life of the community of Unillá Pacalá, one of the poorest communities in the department of Quiché, benefiting more than **150 families** who, until that day, did not have electricity service in the establishment of primary level and basic institute.

In association with the Appropriate Technology Collaborative, we installed a 1,380-watt photovoltaic energy system at the NUFED-509 School in Unilla Pacalá, in San Miguel Uspantán, benefiting and improving educational quality and inspiring **165 primary-level children**, 30 high-level youth elementary school and 5 teachers, about the benefits of using clean and renewable energy.

They now have access to hours of open computing,



Generations of Change

This year we exceeded the impact that was planned in our POA 2022, tripling the number of young people benefited from the project.

671 students received the "Appropriate Technology for Entrepreneurship" diploma, in which they obtained knowledge that allowed them to develop homemade prototypes such as: filters to recycle rainwater, vehicles powered by recycled water and others. This project promotes practical applications of math and science and creates opportunities for new ventures to improve their personal and family income, as a means to eradicate gender equality, school dropout and migration due to lack of economic resources and knowledge. During the training process, 522.5 hours were invested in the Diploma.

"It's good to know that these new technologies exist and even better that students learn and experience the benefits of appropriate technology and how this can change their lives, their work or their personal finances; Taking care of the environment is a responsibility of every citizen," says Professor Luis Enriquez, Oro Verde Institute, Cantón Choquí, Quetzaltenango, August 31, 2022 during a practice exercise.

Adapting to climate change means: knowing about and using clean technologies.

2022 HIGHLIGHTS OF THE PROJECT



Water Purifying Filters

This year we identified more communities in the western highlands of the country that do not have water service, and who continue with the cycle of recurring diseases (parasites, infections, diarrhea, partial or chronic malnutrition in infants under 1 year of age). With the use of the VF-100 Filter, we benefit more than **369 people** in the western highlands of Guatemala, who from now on have clean and safe drinking water. With the use of this technology we are contributing to improving the health of children, adults and elderly that make up these families, the nutrients of the food are increased and new water consumption habits are created, we avoid the immoderate felling of forests to boil the water they consume and we improve the family economy by avoiding the expense of buying bottled water, firewood and medical visits.



Solar Power Kits

We were able to illuminate the homes of **26 families** who live without electricity in the municipalities of Patzún in the department of Chimaltenango, and in San Marcos la Laguna, and Quixayá San Lucas Tolimán in the department of Sololá. Solar kits help overcome the barriers of energy poverty - the lack of access to electricity. Through the use of a solar kit, it allows them to illuminate 3 rooms, use the AM/FM radio and charge cell phones.

In association with ASODENE and Utz Corazón, 26 households, or 42 women, 37 young people and 54 children, avoid the use of candles, ocote and other smoke generators and now breathe cleaner air, avoid fires and have more access to information to improve their economy, their health and well-being.

Green Entrepreneurship



COVID-19 left an economic crisis affecting mainly the most vulnerable families in Guatemala, as part of the resilience of this crisis that is being experienced worldwide, through the Micro-entrepreneurs diploma we trained **67 indigenous agricultural women** with scarce resources from the municipalities from Olinstepeque, La Esperanza and San Juan Ixcay, strengthening their skills and knowledge in finance, sales, marketing, thus improving their income, reactivating their local economies and removing them from anonymity or informal economy.

Using appropriate technologies creates new opportunities for social, cultural and economic development.

Community Feedback

Message about the Social Entrepreneurship project, from Ms. Flor de María Veletzuy, Director of the Municipal Directorate for Women of the Municipality of La Esperanza, Quetzaltenango.

As a manager, I can say that this type of coordination allows women to participate in training processes, because many of them have ideas, proposals and dreams to start with a venture, but they do not have guidance on how to carry it out, they need to strengthen themselves in different topics. Related to finances, marketing strategies, among others, with the diploma that Poder y Luz Maya solves these knowledge needs, allowing women to formally start a business.



Licda. Flor de María Veletzuy.

Message about the Generations of Change project, from Ms. Marta Toj, Quetzaltenango Departmental Supervisor of Education.

In my generation, the inequality between men and women was evident because we receive different courses, but today I am so pleased to see all students in fair equality and equal opportunities so that they understand that it does not matter if we are men or women, of the country or the city, indigenous or ladinos.

Thanks to Maya Power and Light who gives us these opportunities to learn about new technologies, the use and exploitation of solar energy and it is up to us to go after these new opportunities for the good of our society or community.



Licda. Marta Toj.

Support to Communities

At the beginning of March 2020, MPL.ONG visited the community of Unillá Pacalá to carry out the technical and social diagnosis of the Solar Center project, however, during the health crisis caused by COVID-19, our activities stopped and with it the funding for our “last mile” solar school project. But Unillá Pacalá community leaders never gave up despite these obstacles. The newly formed solar committee worked diligently with MPL staff to coordinate the solar installation project, obtaining a high participation of women and the commitment of the community. Thanks to local volunteers such as community leaders, parents, students and teachers, who organized the reception of equipment, provided 4x4 vehicle transportation, and provided local materials and accommodation for the MPL installation team. Together we celebrated a joyful inauguration of the solar project with dancing and speeches.

The Mesoamerican University in its Faculty of Social Communication and the Centro Universitario de Occidente with its Faculty of Humanities, supported our communications by developing new audiovisual materials and systematization of our Generations of Change project; actions that strengthen our project impact and continuous improvement in search of excellence.

Join us to achieve a prosperous, inclusive and sustainable Guatemala.
www.poderluzmaya.org

Our Partners



SECRETARÍA
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MINISTERIO DE
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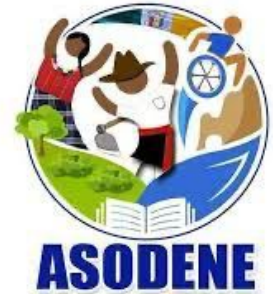
DIRECCIÓN DEPARTAMENTAL DE EDUCACIÓN
QUETZALTENANGO



USAC
TRICENTENARIA
Universidad de San Carlos de Guatemala



San Marcos La Laguna



Outstanding action in 2022

Help that goes the distance

At the beginning of this year 2022 we were selected and now we are part of UNESCO Green Citizens, feeling very proud of our work and actions that contribute to improving the environment in Guatemala, which are recognized internationally.

We managed to establish institutional collaboration agreements between MPL.ONG and the Municipalities of San Miguel Uspantán, in the department of El Quiché, San Juan Ostuncalco, San Mateo, La Esperanza and Olinitepeque in the department of Quetzaltenango.

We formalized our first working alliance between the National Secretariat of Science and Technology of Guatemala (SENACYT) and MPL.ONG, with the aim of strengthening the knowledge and applicability of science, technology, research and the use of renewable technology, aimed at the educational sector of the departments of Quetzaltenango and Totonicapán.

Support us to serve from a distance. Donate at www.poderluzmaya.org

Finance

Staff

EVERILDA PÉREZ
Project Coordinator

LUIS CAHUEX
Administrator

RICARDO OCAÑA
Solar Electrician

MARIFRANCE MEJÍA
Field Technician

GABRIELA RUIZ
Field Technician

Board Of Directors

MONIKA GOFORTH
President

SANDRA HERRERA
Vice President

MAGDONY PÉREZ
Secretary

SAÚL CANASTUJ
Treasurer

CAROLINA GONON
Vowel I

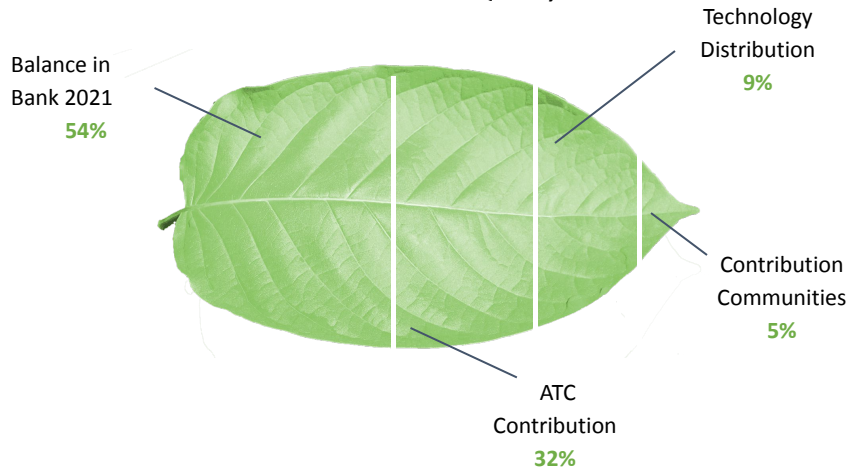
ELBA CORTEZ
Vowel II

EVERILDA PÉREZ
Vowel III

MARILENA CHOGUAI
Vowel IV

Ingresos

Balance in Bank 2021	Q.301,319
ATC Contribution	Q.175,617
Technology Distribution	Q. 48,831
Contribution Communities	<u>Q. 28,500</u>
Total	Q.554,267



Gastos

Administration	Q. 29,875
Solar Centers	Q.154,881
Generation of Change	Q. 85,400
Green Entrepreneurship	Q. 63,282
Technologies for Development	<u>Q. 72,976</u>
Total	Q.406,414

