



2025 Annual Impact Report

Light Up The World

Executive Director

Dear LUTW Community,

2025 was an impressive year for LUTW. Multiple projects implemented new technologies and pushed us to cross the **100kW milestone** of cumulative solar installed, **impacting more than 13,000 people** since our establishment in Peru in 2011.

I have now been with LUTW for over 7 years and I am very proud of our progress as an organization. Today's economies and societies require infrastructure to function and thrive. Rural communities lack this infrastructure, which impedes their development and keeps them in the poverty cycle. LUTW systems have been carefully designed and are now more sustainable and better serve communities than ever before. Thanks to technology developments and LUTW's ability to bring those advancements to rural communities, we now provide sustainable connectivity and energy to some of the most remote areas on the planet that otherwise wouldn't receive infrastructure through government programs. They are community owned and operated, remotely supported by LUTW.

This combination of energy and connectivity provides exponentially more benefit to communities than just energy alone. Students are more engaged in classes due to access to digital resources, locals receive better healthcare through telemedicine, all community members access a central point with illumination, communication through messaging, and comfort with heat. To solve the problem of sustaining a monthly service cost for connectivity we had to create an innovation that solved problems that communities face. The answer: shared, easy to use, low-cost internet voucher codes. At the end of 2025, there were 8 communities that sustain their own internet connection through the LUTW system. This was all made possible through our partnership with experts in wireless communications at NAIT (Northern Alberta Institute of Technology).

By providing a more complete infrastructure solution, we also deliver more value to communities and our partners. With access to real-time data, we ensure systems stay online, collect more impact stories, and provide deeper learning experiences to students. Our solution is now generating significant interest from other non-profits in Peru that work in rural areas without energy and connectivity infrastructure. We are seeking to partner with them to empower their initiatives.

Our technology development has significantly strengthened our progress towards the United Nations' Sustainable Development Goals, in particular: education, healthcare, affordable and clean energy, climate change, and partnerships for the goals.

Going forward, it is time to scale our solution through non-profit, academic, corporate, and service club partnerships. LUTW has a unique approach to sustainable rural community infrastructure and is ready to deploy at a larger scale.

To our community: thank you for your unwavering support. You make reaching "the last mile" possible. If you are curious about our impact, join us on an empowerment expedition and experience it yourself!

Aaron Cohen
Executive Director

OUR 2025 IMPACT AT A GLANCE

29kW+

Solar
Installed

5

Community
Projects

1,860

Direct
Beneficiaries

3,000+

Internet
access events

>99.9%

System
Uptime

8

Systems with remote
monitoring

200+

Rural students impacted

30+

Student
Volunteers

3

Additional communities with
sustainable satellite Internet

OUR MISSION

To provide reliable, sustainable energy and connectivity infrastructure so that communities can access education, healthcare, and opportunity.



OUR VISION

A world where every community has access to the energy and connectivity they need to determine their own future.



Volunteer-Led Impact

5 Projects Completed in 2025

1. SAIT & NAIT - Huarcaya K-12 School
2. Empowerment Expedition I - Huarcaya Health Clinic
3. UNILA - 40 Alto Mishahua Homes
4. Empowerment Expedition II - Nueva Jerusalem Pre-school + Elementary School
5. Wooree - Astobamba Elementary School



+29 kW

Solar Installed

30+

Student Volunteers

200+

Rural students impacted

>99.9%

System Uptime

1,860

Beneficiaries

Terra Nuova: Soledad Plantain Production Facility

Photo: [ASPAWW](#)**1M+**Fish Fry
Produced**1**Internet Connection
Enabled**30 Tn**Plantain Flour
Produced

Launched in 2022 by Terra Nuova, this facility drives a sustainable economy in Soledad. Local farmers sell their plantains to the facility, which processes and exports them as gluten-free plantain flour to Ecuador and Europe. Powered by a solar system installed and upgraded by LUTW over the years, the operation runs a flour mill, water pump, industrial drying oven, bag sealer, and air extractors. In 2025, the facility provided consistent income for 8 full-time community employees and over 13 tonnes of plantain flour. In 2026, LUTW will upgrade the system yet again, enabling headcount to double and production set to quadruple to meet demand.

In-Kind Partnerships

Silfab Solar

312 solar modules donated
36 kWp of daily clean power
13 remote communities served



S-5!

8 boxes of mounting equipment
64 modules mounted
Thousands saved in costs



Gurobi

Optimization solver access
Design time: days to minutes
Maximizes system efficiency



Light Up the World (LUTW) is a Canadian nonprofit delivering solar energy and Internet to remote communities in Peru.

Light Up the World: Bringing Clean Energy and Internet Access to Remote Communities

Through the Gurobi Gives Back program, a Canadian nonprofit empowers off-grid communities in Peru with optimized solar and digital infrastructure.

Huarcaya K-12 School

In February 2025, LUTW took on its most ambitious volunteer project yet. Over 30 student volunteers from SAIT and NAIT installed sustainable electricity, connectivity, computers, and hot water in the Huarcaya K-12 school where over 125 children and 15 teachers live and study throughout the school year. A 6.6 kWp system with 15 kWh of LFP storage and 9 KVA of three-phase power was installed, powering over 40 rooms where students and teachers stay during the school week.

LUTW leveraged many partnerships to move the project forward, including equipment donations from S-5! and Silfab Solar which empowered the pilot project of a computer lab and hot water system for the school. Muster Point Productions recorded every detail of the project and included us in their documentary "Help is on the way" showcasing what Canadians are doing about energy poverty at home and abroad.

The impact has been profound: teachers prepare more engaging classes, students are now provided a computer class, get online, and have better hygiene washing their hands with warm water. Students feel more motivated than ever to go to school, learn and pursue a professional career.



6.6 kWp

Solar System

15 kWh

Battery Storage

125+

Students Served

30+

Volunteers

Huarcaya Health Clinic

LUTW returned to Huarcaya in September 2025 and completed the installation in the Health Clinic that began providing tangible benefits to the community within a week through space heating for births, enabling telehealth, and extended clinic hours. Just before the inauguration ceremony, one resident arrived to the clinic requiring urgent care. The system was used to attend to the patient and stabilize them before coordinating with the nearest hospital using the recently installed internet to prepare for their arrival. Joaquin, the doctor in charge of the clinic in 2025, said in a LUTW interview:

"We used to use our cellphones to illuminate patients and find medications when the sun went down. Now we have light 24/7, internet to pull patient records, and even heat. Now that we have energy, we will now work on acquiring an ultrasound and sterilizer which will enable us to provide even better care for the people of Huarcaya."

LUTW is the first and only non-profit/charity to carry out a project in the community since its creation 15 years ago. **Over 500 people in the community benefit from the infrastructure** and another 500+ from surrounding communities that depend on Huarcaya for their medical needs.



The LUTW System

Traditional off-grid installations in remote communities frequently fail due to low quality equipment, constant maintenance, incorrect configuration, poor electrical design and lack of community training. Drawing on a decade of observing why systems fail in remote communities, the LUTW design deliberately avoids those failure points and incorporates sustainable internet technology providing remote support that ensures the system becomes a reliable asset to empower education, healthcare, and potential.

Each system is assembled in our offices first for testing, has a modular design for easy transport by boat and is installed in the field with minimal power tools required. By purchasing high quality equipment and combining it with in-kind donations you get an enterprise-grade system at a fraction of standard costs. The end result is a system that will simply work for decades in the future.

System status visibility, remote circuit control, data logging

Independent connectivity power

Cabinet tamper alarm, temperature controlled ventilation extending equipment life

Intelligent low battery shut off and auxiliary load configurable

High quality charge controller and inverter with remote configuration

Modular cabinet design

Closed loop communication for full control and data collection

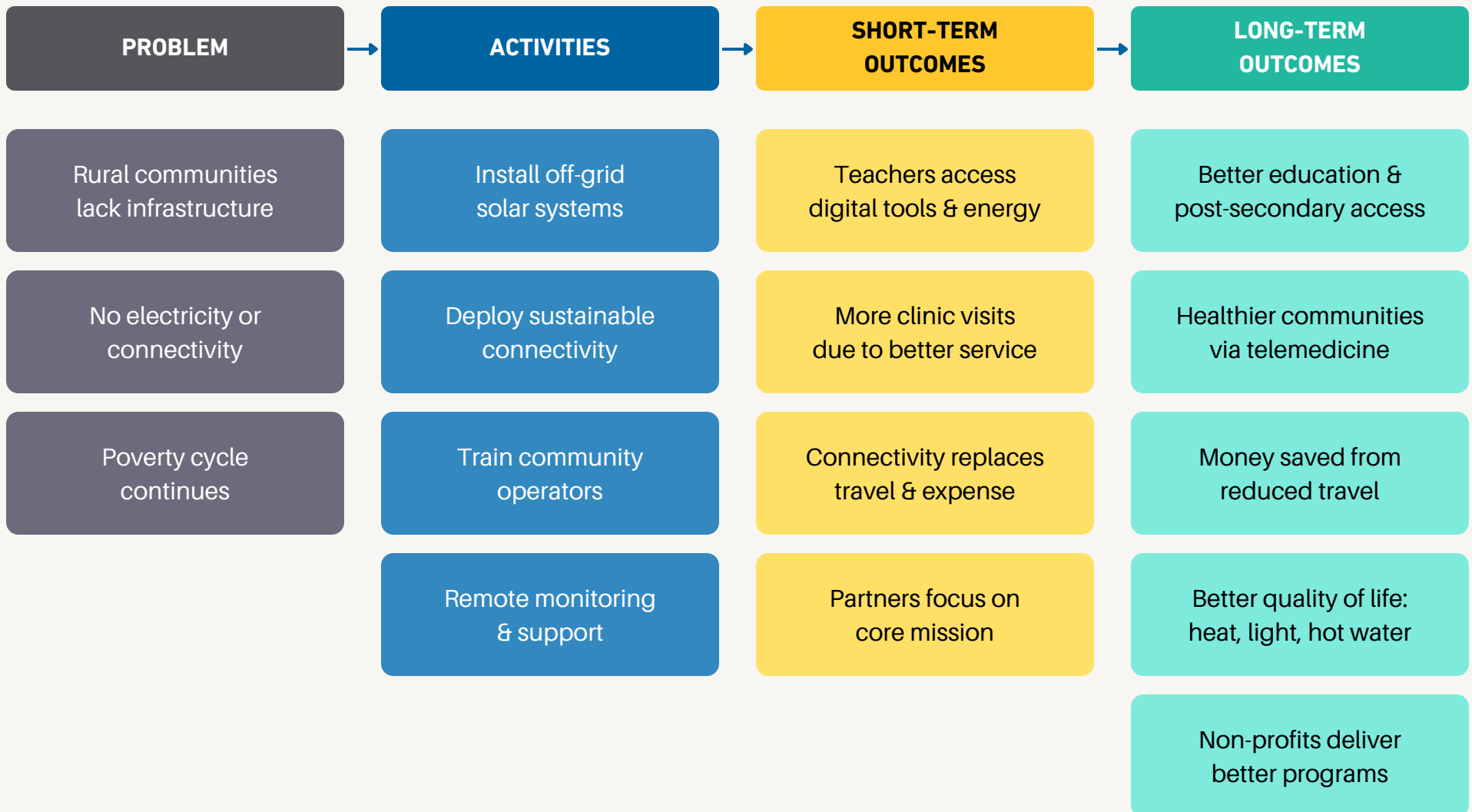
Vertical bus bars for space optimization and cable reduction

High quality LFP batteries imported directly, scalable, LED charge bar, remote firmware updates



Theory of Change

By providing reliable energy and connectivity, we lay the foundation for education, healthcare access, and digital communication. These lead to lasting outcomes: better educational development, improved community health, financial savings, enhanced quality of life, and stronger non-profit programs.



Our Partners & Supporters



ABC Flow Through Fund at Calgary Foundation

Cambium Networks

EduLink Peru

Gurobi Optimization

Fish Creek Rotary Club

JRG Family Fund at Calgary Foundation

Air Canada

Kendila

Muster Point Productions

Northern Alberta Institute of Technology

Southern Alberta Institute of Technology

Skyfire Energy

Silfab Solar

S-5!

SX Family Fund at Calgary Foundation

Calgary Stampede Rotary Club

Spencer Ogden

Terra Nuova

UNILA

Wooree

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LUTW
POWERING OPPORTUNITY

Powering opportunity so rural communities can thrive.

Reliable energy and connectivity for schools, clinics,
and communities that need it most.

GET INVOLVED

Partner with us to bring sustainable energy to remote communities.

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