



GRET



PURE Project

Productive Use of Renewable Energy Project

PURE Project in Short

In rural Myanmar, the energy sector is characterized by low per capita electricity consumption, making the expansion of the national grid economically unviable. So-called "off-grid" electricity production systems are therefore deployed, but their reliability limits the development of economic activities and, more generally, access to the greatest possible number of people.

GRET intends to support the transition to renewable energies for small-scale productive uses (irrigation, lean season, agro-processing for example) in rural areas of Myanmar, through the PURE [Productive Use of Renewable Energy] project.

GRET's teams, in partnership with the Thitsar Ooyin Institute of Microfinance, will enable the electrification of 30 productive uses, and support entrepreneurs in consolidating their business model during the 36 months of the project. To limit the risk for these pilot beneficiaries, the installations will be 90%-subsidized. Eventually, once the scale-up prerequisites are clearly identified, PURE intends to lay the foundation of a larger programme, based not on grants but on financial services better suited to a large pool of beneficiaries.

How is the Project innovating?

- > Techno-economic frontier in electrification work in Myanmar,
- > Knowledge in mechanical engineering and power electronics,
- > Retrofitting rather than using ready-to-use appliances.

Solar Village Water Supply System installed in the field.



Project objective

- Support off-grid productive businesses' transition to renewable energy.

Key project figures

- Pilot based – 30 businesses selected out of 200+ applications.
- Bottom-up basics – Identify businesses/beneficiaries.
- Technical solution demonstration with minimum risk for businesses/beneficiaries.
- Knowledge management – Learning from pilots in order to replicate and scale-up technologies.

On-site basic maintenance training.



Main Stages of the Project

- > Study of the socio-economic context, outlook for the sectors' actors and ongoing programmes.
- > Selection of priority implementation areas and selection of businesses/beneficiaries.
- > Technical design and procurement of technologies, overseeing of commissioning.
- > Support to operations and maintenance of installations for at least one year.
- > Monitoring and data collection on operations.
- > Development of business cases.
- > Awareness-raising campaign on the productive use of energy in rural areas.
- > Knowledge management and design of a scale-up strategy.



Motorcycle repair shop operating on solar panel.

EXPECTED RESULTS

- 30 businesses benefit from a renewable energy system (access to sustainable power source).
- Reduction of energy expenditure: direct costs (diesel purchase, etc.) or indirect costs (travel expenses to get energy, etc.).
- Increase of the productivity of the activities: area irrigated, quantity of miller services per month, etc.
- Reduce food waste in poultry businesses.
- Diversification of activities: types of product dried or stored, etc.
- Customize technical designs for each business.
- Develop a capitalization document emphasizing the impact of the project.
- Design a scale-up strategy with adapted and a realistic economic and financial mechanism.
- Possible project extension to Cambodia and Laos.

Support to Different Livelihood Functions



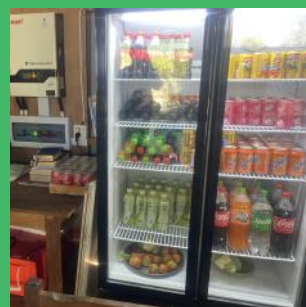
Solar Irrigation



Iron Work
Welding and Repair



Powder Mill



Grocery Store

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Present in Myanmar since 1995, GRET is an international development NGO that has been working in the field and at political level to fight poverty and inequalities for more than 40 years.

Myanmar

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