



Papua New Guinea off-grid electrification program

General information and
Expression Of Interest form





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This publication is available on our website:
pawarimkomuniti.org.pg

Please send enquiries to:
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About

Pawarim Komuniti

Pawarim Komuniti is a grant program focusing on off-grid renewable energy funded by the Australian Government to support access to clean energy services in rural and remote communities throughout Papua New Guinea (PNG). It is part of Australia's commitment under the PNG Electrification Partnership to help PNG meet its target of connecting 70% of the country to electricity by 2030.

According to the PNG's Medium Term Development Plan III (MTDP III):

'Energy powers economic growth and development of the country. There is increased need for clean and reliable energy sources to accelerate this growth and development. Given the abundance of clean energy sources, PNG is well positioned to realise PNGDSP 2010 target of providing 70% electricity access rates to households and business houses

'More investment in clean energy generation, such as hydro, solar, wind, biomass and geothermal power generation will be accelerated to reduce dependence on diesel power generation. Continued strategic investment in the sector for provision of reliable and clean energy is an essential driver for economic growth.'

Pawarim Komuniti aims to:

- 1 Provide rural households, community service facilities and businesses with reliable and affordable access to clean energy services
- 2 Support government, development partners, civil society and private sector with information on successful off-grid electrification models

Key Objectives

- Deliver access to clean energy services that have a positive development impact on people in rural and remote communities
- Deliver sustainable off-grid energy projects by ensuring local ownership and community participation
- Provide technically and economically viable clean energy solutions, with minimum environmental impact
- Enable equitable and inclusive access to clean energy through mainstreaming gender, disability and social inclusion (GEDSI) in the design and implementation of projects
- Innovate and pilot new models of delivery for new technologies that are adapted to PNG.

What is Off-Grid Electrification?

Off-grid electrification refers to stand-alone power systems that provide rural households, businesses, public or community service facilities with clean energy services. Off-grid electrification is fast becoming the preferred means to connect people to electricity in countries like PNG where communities are isolated, and the cost of grid connectivity is high.

Research in the energy sector highlights that for much of the PNG population, off-grid, decentralised solutions will need to be a significant part of the solution for energy access in rural areas and may well remain the most appropriate option for the near and medium term.

With 80% of people in PNG living in remote towns and communities with limited access to vital services, increasing access to energy services will help improve living standards and allow government and civil society to deliver improved education and health services at the community level. Electrification of communities also improves safety and security through street lighting.

Access to energy services is also important for fostering economic growth in the private sector, especially for small and medium enterprises that enhance income generation.

PNG Power Exclusivity zone

PNG Power Ltd (PPL) owns and operates three major electricity grids (Port Moresby, Ramu and Gazelle) and mini grids in most provincial centres.

PPL has exclusivity to a 10-kilometre radius around its existing grid infrastructure. This prohibits the establishment of any off-grid technologies within the 10 kilometre exclusivity zone.

Under Pawarim Komuniti, off-grid refers to systems generating less than 1MW of power anywhere outside the current PPL exclusivity zone and areas clearly demarcated for grid extension.

PNG Off-grid Regulations

The Government of PNG is finalising the off-grid regulation for small power systems. Compliance with the PNG's regulatory requirements will need to be addressed at the full proposal stage.

Funding

Funding amount available for off-grid electrification projects

Funding available for off-grid electrification projects is between PGK500,000 to PGK5 million per project.

Project Funding Availability

Funding is specifically meant to support off-grid energy projects to deliver clean energy services to remote communities in PNG. Applicants are required to demonstrate how their project will deliver against Pawarim Komuniti's key objectives. Projects should be developed through the partnership of multiple actors and preferably stimulate an ongoing market system. The types of projects that would be eligible for funding are:

- Off-grid solar home systems/single-appliance systems distribution projects
- Productive uses of energy projects, providing micro, small and medium enterprises with electricity, heat and mechanical power to enhance income generation and provide essential services
- Mini grids projects, establishing stand-alone electrical power subsystems to provide energy services to multiple users
- Projects combining the above-listed options.

All projects are expected to meet minimum technical standards and comply with all legal and regulatory requirements. Relevant Initial Environmental Examination or Impact Assessments should be undertaken.

Applicant funding eligibility

- Applicant/s must be registered with PNG Investment Promotion Authority (IPA)
- Applicant/s must provide a valid Tax Identification Number (TIN)
- Applicant/s must provide a valid Certificate of Compliance issued by PNG Internal Revenue Commission (IRC)
- Clear and certified land title for mini grid projects
- Audited accounts of the last two consecutive years without major qualifications
- Project management experience in a similar field is desirable
- Support letters from the relevant provincial administration and or communities at the proposed project sites for ownership and long-term sustainability
- Should the applicant/s be shortlisted for grant funding, a detailed Due Diligence Assessment will be conducted prior to the awarding of the grant.

Gender Equity, disability and social inclusion and safeguards

A key objective of Pawarim Komuniti is to ensure that gender equity, disability and social inclusion (GEDSI) and safeguards are integrated in every aspect of the project cycle, from community consultation and implementation of the project, and that it is sustained after project completion.

Monitoring, evaluation and learning (MEL)

Monitoring, evaluation and learning sets out principles and the approach used to monitor and evaluate the project with an aim to:

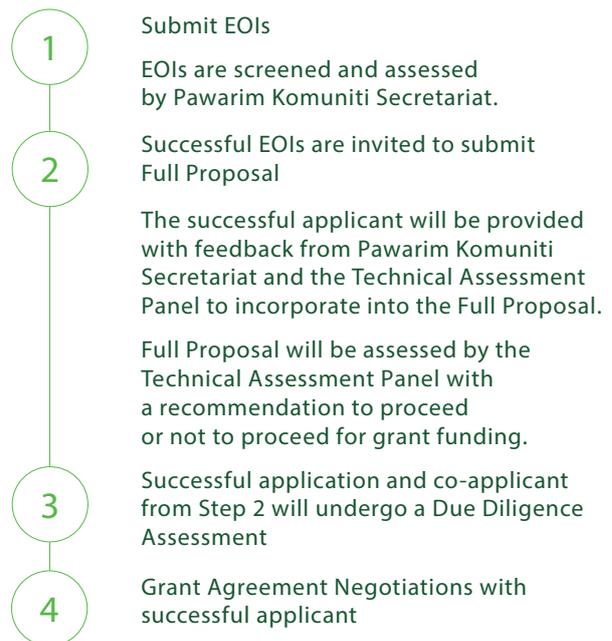
- Demonstrate accountability by ensuring projects achieve their planned results
- Learn about and improve program operations
- Generate knowledge to inform future renewable off-grid programming in PNG.

Application Process

Expression of Interest application form can be submitted to Pawarim Komuniti at any time. Applications will be reviewed three times annually. For cut-off dates, please refer to our website: pawarimkomuniti.org.pg

Applications are to be submitted by email to: apply@pawarimkomuniti.org.pg

The applications will undergo the following process:



Expression of interest Application form

Information for applicants

This expression of interest (EOI) application form helps Pawarim Komuniti to learn more about the applicant's organisation, partners and intended project, focusing on its rationale, concept and objectives.

Please note that although submitting an EOI application form is the first step in applying for funding, it does not guarantee an invitation to submit a full proposal and does not guarantee funding. Only successful applicants will be invited to develop a full grant proposal with the support of Pawarim Komuniti.

Proposed project

Proposed project name

Location (LLG, district, province)

Total funding requested
(PGK 500,000 to PGK 5 million)

Duration of project (approximate)

Lead applicant

Co-applicant/s

Type of project
(please tick)

Off-grid solar home systems/
single appliance systems
distribution projects

Productive uses
of energy projects

Mini grids projects, establishing
standalone electrical solar/hydro/
hybrid-powered substations to provide
clean energy services to multiple users

Projects combining the
above-listed options

Project outcome (summary)

Information on lead applicant

Applicant name and type
(e.g. company, non-profit,
association and other)

Brief description of the organisation
(e.g. ownership, major shareholders,
directors and their backgrounds,
number of employees, years in
operation, core business, international
experience, donor experience, previous
work in PNG and abroad, activities
related to energy sector including
off-grid and specifically mini grid
electrification, working experience
with local government agencies and
communities, details of past assistance
from other donors/development
partners)
(max. 500 words)

Date and place of registration

Registration number

Tax Identification Number (TIN)

Postal address

Telephone

Email address

Website (if available)

Social media links (if available)

Contact people

Organisation Contact Person 1
(primary contact)

Organisation Contact Person 2
(mandated signatory)

Name and position

Phone contact

Email address

Information on co-applicant

Applicant name and type
(e.g. company, non-profit,
association and other)

Brief description of the organisation
(e.g. ownership, major shareholders,
directors and their backgrounds,
number of employees, years in
operation, core business, international
experience, donor experience, previous
work in PNG and abroad, activities
related to energy sector including
off-grid and specifically mini grid
electrification, working experience
with local government agencies and
communities, details of past assistance
from other donors/development
partners)
(max. 500 words)

Date and place of registration

Registration number

Tax Identification Number (TIN)

Postal address

Telephone

Email address

Website (if available)

Social media links (if available)

Contact people

Organisation Contact Person 2
(primary contact)

Organisation Contact Person 2
(mandated signatory)

Name and position

Phone contact

Email address

*Add another co-applicant by copying and pasting the table above, cancel the table above if no co-applicant is participating in this project.



Information on complementary evidence of the partners

How will you divide the works/
responsibilities between or
amongst partners?
(e.g. technical responsibility and
community engagement responsibility)
(max. 100 words)

Explain how this partnership helps
in implementing the project concept,
outlining most relevant synergies
(e.g. technical responsibility and
community engagement responsibility)
(max. 100 words)

Project key information

Proposed Project Name

Project location
(LLG/District/Province)

Project description
Project idea, outputs (in kW), major
activities, target area and communities,
overview of local economy, present
energy use, probable number and types
of consumers (residential, commercial,
industrial, agricultural, and others)

What evidence is there to justify the
need for the project?

Project technology
(e.g. solar, hydro, or hybrid)

Resource potential
(Does solar or hydropower potential
exist adequately to meet the electricity
demand? Have any relevant studies
been conducted?)



Concept innovation

Briefly describe the key contribution of the Pawarim Komuniti funding (e.g. materialise the project/accelerate investment/ expansion) (max. 100 words)

What is the main innovation related to? (technology/business model/ development impact/synergies of partners) Please describe. (max. 300 words)

What are the critical factors for the success of the project? (max. 200 words)

Do you see any risks related to land or water use for the project? Do you see any other risks? (max three risks)

Please describe how you plan to address and solve land or water issues and any other grievances, if any? (max 100 words)

Monitoring, evaluation and learning (MEL) checklist

Please confirm that you intend to collect and will have the capacity to report basic monitoring data, such as baseline data, endline data, stories of change and regular progress on your project from the communities and people that your project seeks to benefit

We confirm that we intend to and will have the capacity to collect and report baseline data, endline data, stories of change and regular progress on our project from the communities and people that our project seeks to benefit

Yes No

Please confirm that you have considered the (i) personnel/staff requirements, (ii) time necessary and (iii) costs and any other resources required to undertake MEL activities in your proposed project

We confirm that we have considered all the below:

- Personnel/staff requirements
- Time necessary
- Costs and/or any other resources (office space, stationery, computer access) needed to carry out MEL activities for the proposed project

Yes No

Business model

Please describe the key elements of the project business model in respect to the commercial rationale and viability (max. 300 words)

How will this project affect the target market(s)? (max. 200 words)

Please describe how the proposed project generates revenue to meet its operation and maintenance. What will be the tariff structure and rates (if applicable)? (max. 200 words)

Financial overview of lead applicant

If possible, please list the turnover (revenue) for the last three years (PGK)

2019	<input type="text"/>	2020	<input type="text"/>	2021	<input type="text"/>
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If possible, please list the financial results (net profit) for the last 3 years (PGK)

2019	<input type="text"/>	2020	<input type="text"/>	2021	<input type="text"/>
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If possible, please list total assets and liabilities value for the last 3 years (PGK)

2019	<input type="text"/>	2020	<input type="text"/>	2021	<input type="text"/>
2019	<input type="text"/>	2020	<input type="text"/>	2021	<input type="text"/>

Estimated financial proposal

Costs	% of total costs	PGK
1. Pre-investment costs		
- Survey/design		
- Others		
2. Project development		
- Management and engineering		
Capacity building, training (local operator)		
- Community engagement		
3. Costs of mini grid components/installation		
- Generation		
- Storage and powerhouse		
- Conversion		
- Distribution and consumption		
- Customer systems (indoor household wiring, etc)		
4. Management and operation (including personnel costs)		
5. GEDSI, safeguards and MEL (personnel, activities and other possible cost implications)		
6. Others (insurance, transportation, etc, please specify)		
-		
-		
-		
Total project costs		



Financing the Project

Costs	% of total costs	PGK
Financing the project		
Financing request to Pawarim Komuniti		
Co-financing		
Lead applicant		
Co-applicants		
Others (specify)		
Community participation (if any, in kind or cash)		
Total financing		

Previous funding experience

If you have received funding before, please list the names of your past (last 3 years) and current funders. Please include previous donor funding.

Funder name	<input type="text"/>	Current	<input type="checkbox"/>	Past	<input type="checkbox"/>
Name and contact details	<input type="text"/>				
Project title	<input type="text"/>	Budget	<input type="text"/>		
<hr/>					
Funder name	<input type="text"/>	Current	<input type="checkbox"/>	Past	<input type="checkbox"/>
Name and contact details	<input type="text"/>				
Project title	<input type="text"/>	Budget	<input type="text"/>		
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Funder name	<input type="text"/>	Current	<input type="checkbox"/>	Past	<input type="checkbox"/>
Name and contact details	<input type="text"/>				
Project title	<input type="text"/>	Budget	<input type="text"/>		
<hr/>					
Funder name	<input type="text"/>	Current	<input type="checkbox"/>	Past	<input type="checkbox"/>
Name and contact details	<input type="text"/>				
Project title	<input type="text"/>	Budget	<input type="text"/>		

Additional documentation

Please submit the following documents with the EOI:

- Certificate of registration of the organisation
- Preliminary survey, study report for the proposed project (if available)
- Project completion report of similar projects (if available)
- Land title, land lease agreement or any other consent document with customary landowners (if available/relevant).



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