

# GEF-8 REQUEST FOR MSP (1-STEP) APPROVAL

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## General Project Information

### Project Information

Project Title:

Enabling Next Generation Energy Finance for Vanuatu's National Green Energy Fund (eNGEF)

Region:

Asia

GEF Project ID:

12303

Country(ies):

Vanuatu

Type of Project:

MSP

GEF Agency(ies):

UNDP

GEF Agency Project ID:

9606

Project Executing Entity(s):

Ministry of Climate Change (MoCC)/ Dept. Of Energy

Project Executing Type:

Government

GEF Focal Area (s):

Climate Change

Submission Date:

3/10/2026

Type of Trust Fund:

GET

Project Duration (Months):

48

GEF Project Grant: (a)

1,776,486.00

GEF Project Non-Grant: (b)

0.00

Agency Fee(s) Grant: (c)

168,764.00

Agency Fee(s) Non-Grant (d)

0.00

Total GEF Financing: (a+b+c+d)

1,945,250.00

Total Co-financing

9,000,000.00

PPG Amount: (e)

50,000.00

PPG Agency Fee(s): (f)

4,750.00

PPG total amount: (e+f)

54,750.00

Total GEF Resources: (a+b+c+d+e+f)

2,000,000.00

Project Tags

CBIT: No NGI: No SGP: No Innovation: No Competitive Window: No

Project Sector (CCM Only):

Renewable Energy

## Taxonomy:

Renewable Energy, Strengthen institutional capacity and decision-making, Demonstrate innovative approach, Deploy innovative financial instruments, Influencing models, Indigenous Peoples, Capital providers, Financial intermediaries and market facilitators, Large corporations, SMEs, Individuals/Entrepreneurs, Private Sector, Beneficiaries, Local Communities, Civil Society, Community Based Organization, Non-Governmental Organization, Type of Engagement, Information Dissemination, Partnership, Participation, Consultation, Communications, Awareness Raising, Education, Public Campaigns, Enabling Activities, Capacity Development, Course, Professional Development, Workshop, Training, Knowledge Generation, South-South, Knowledge Exchange, Stakeholders, Capacity, Knowledge and Research, Women groups, Gender-sensitive indicators, Sex-disaggregated indicators, Knowledge Generation and Exchange, Participation and leadership, Access to benefits and services, Gender Mainstreaming, Gender results areas, Gender Equality, Focal Areas, Sustainable Development Goals, Climate finance, Small Island Developing States, Disaster risk management, Climate resilience, Private sector, Community-based adaptation, Climate Change Adaptation, Energy Efficiency, Technology Transfer, Financing, Climate Change Mitigation, Climate Change, Institutional and Social Fragility, Fragile and Conflict-Affected Situations

## Rio Markers

| Climate Change Mitigation | Climate Change Adaptation | Biodiversity      | Land Degradation  |
|---------------------------|---------------------------|-------------------|-------------------|
| Principal Objective 2     | Significant Objective 1   | No Contribution 0 | No Contribution 0 |

## Project Summary

Provide a brief summary description of the project, including: (i) what is the problem and issues to be addressed? (ii) what are the project objectives, and if the project is intended to be transformative, how will this be achieved? (iii), how will this be achieved (approach to deliver on objectives), and (iv) what are the GEBs and/or adaptation benefits, and other key expected results. The purpose of the summary is to provide a short, coherent summary for readers. The explanation and justification of the project should be in section B “project description”. (max. 250 words, approximately 1/2 page)

Only around one-third of households in Vanuatu have access to electricity, with access falling to about 17% in rural areas. Expanding electrification is a national priority, alongside the Government’s commitment to a full transition to renewable energy by 2030. Although Vanuatu’s absolute emissions are low, heavy reliance on diesel makes electricity expensive and carbon-intensive, underscoring the importance of scaling up renewable energy to meet national mitigation targets. At the same time, Vanuatu is highly vulnerable to cyclones, earthquakes, volcanic activity, sea-level rise, and saltwater intrusion, which threaten infrastructure, livelihoods, and service continuity. Expanding access to reliable, affordable, and decentralized renewable energy systems is therefore also a critical resilience imperative.

In response, the project aims to unlock financing to accelerate Vanuatu’s clean energy transition and strengthen its capacity to meet national energy and climate goals under the Vanuatu National Energy Roadmap 2016–2030 (NERM). By addressing key barriers that limit the effectiveness of the National Green Energy Fund (NGEF), the project will catalyze sustained market transformation, delivering an estimated 8,959 tCO<sub>2e</sub> in lifetime greenhouse gas emission reductions over 20 years while providing sustainable energy access to approximately 39,645 beneficiaries.

The project adopts a comprehensive approach combining institutional strengthening, demand-side market development, and supply-side support through three components. Component 1 focuses on building the institutional and technical capacity of NGEF, the Ministry of Finance, the Department of Energy, and other government entities to enhance investment readiness, governance, and throughput, including capacity on RE/EE finance, environmental and social risk management, and inclusive financing. Component 2 addresses demand-side barriers by supporting NGEF to identify priority beneficiaries and RE/EE investment

opportunities through feasibility studies, raise market awareness of financing products, and establish inclusive grant and concessional loan mechanisms. Component 3 tackles supply-side constraints by facilitating partnerships with technology providers, training local technicians, and standardizing technology packages to improve affordability, quality, and scalability.

Through this integrated approach, the project will enhance energy security, reduce reliance on fossil fuels, strengthen climate resilience, and support inclusive development, while mainstreaming gender and social inclusion in line with the National Gender Equality Policy 2020–2030.

## Project Description Overview

### Project Objective

To increase National Green Energy Fund's (NGEF) ability to upscale financing of renewable energy and energy efficient installations so it effectively and efficiently supports the National Energy Roadmap and Nationally Determined Contribution

## Project Components

### Component 1: Institutional Support and Capacity Building (MoFEM and MoCC/ DoE/NGEF)

|                            |                   |
|----------------------------|-------------------|
| Component Type             | Trust Fund        |
| Technical Assistance       | GET               |
| GEF Project Financing (\$) | Co-financing (\$) |
| 327,117.00                 | 1,000,000.00      |

Outcome:

Outcome 1: Improved strategic conditions, technical capacity, and operating efficiencies for NGEF to attract increased and diversified funding base and increase its RE/EE investment throughput.

Output:

Output 1.1: Completed NGEF diagnostic review to improve operating processes, policies, systems, gender inclusiveness, credit risk and identifying pathways to attract and deliver international climate finance

Output 1.2: Updated NGEF operations manual and operating policies to streamline decision making and accommodate a wider range of RE/EE applications that are inclusive and gender responsive

Output 1.3: Adoption of digital tools to improve NGEF's transaction efficiency and gender inclusion

Output 1.4: Support in engaging with financial intermediaries to improve NGEF's reach and efficiency

Output 1.5: Completed capacity development programs for MoFEM and MoCC/ DoE/NGEF on RE/EE technologies and finance requirements

## Component 2: Demand-side assistance

|                            |                   |
|----------------------------|-------------------|
| Component Type             | Trust Fund        |
| Technical Assistance       | GET               |
| GEF Project Financing (\$) | Co-financing (\$) |
| 372,117.00                 | 2,000,000.00      |

Outcome:

### Outcome 2

Increased public awareness of NGEF's RE/EE financing products and improved inclusive RE/EE investment opportunities tailored to consumer needs

Output:

Output 2.1: Expanded demand-side market study to identify a wider beneficiary group and RE/EE technologies including for productive uses and domestic appliances

Output 2.2: Conducted feasibility studies on technology packages for productive uses and domestic appliances, including for women and marginalized communities

Output 2.3 Inclusive finance instruments designed

Output 2.4: Inclusive and widespread marketing and awareness campaigns on RE/EE products under NGEF financing programs

Output 2.5: Established support mechanisms for women-led initiatives who apply for NGEF funds for RE applications

## Component 3: Improving conditions for the supply of RE/EE technologies

|                            |                   |
|----------------------------|-------------------|
| Component Type             | Trust Fund        |
| Technical Assistance       | GET               |
| GEF Project Financing (\$) | Co-financing (\$) |

480,541.00

3,380,000.00

Outcome:

Outcome 3: Improved supply conditions for NGEF to expand RE/EE investments across Vanuatu

Output:

TA for Output 3.1, 3.2, 3.3, 3.5

INV for Output 3.4

Output 3.1: Completed technical skills development programs for NGEF engineers and local suppliers to support the expansion of RE/EE applications across the country

Output 3.2: Updated and diversified finance and technology products supported by an expanded base of pre-approved technology providers

Output 3.3: Completed supply-side study to identify vendor weaknesses and opportunities for supply chain improvementse products

Output 3.5: Regional collaboration enhanced to address cross-regional barriers including high logistic costs and remoteness through pooled procurement, shared standards, and applied knowledge products

### Component 3: Improving conditions for the supply of RE/EE technologies

Component Type

Trust Fund

Investment

GET

GEF Project Financing (\$)

Co-financing (\$)

360,000.00

1,000,000.00

Outcome:

Outcome 3: Improved supply conditions for NGEF to expand RE/EE investments across Vanuatu

Output:

TA for Output 3.1, 3.2, 3.3, 3.5

INV for Output 3.4

Output 3.4: Innovative blended finance model for rural electrification tested

## M&E

|                            |                   |
|----------------------------|-------------------|
| Component Type             | Trust Fund        |
| Technical Assistance       | GET               |
| GEF Project Financing (\$) | Co-financing (\$) |
| 76,000.00                  | 500,000.00        |

Outcome:

Projects' results are tracked, challenges identified, and necessary adjustments are made

Output:

Project Monitoring, Reporting and Evaluation

## Component Balances

| Project Components                                                                 | GEF Project Financing (\$) | Co-financing (\$)   |
|------------------------------------------------------------------------------------|----------------------------|---------------------|
| Component 1: Institutional Support and Capacity Building (MoFEM and MoCC/DoE/NGEF) | 327,117.00                 | 1,000,000.00        |
| Component 2: Demand-side assistance                                                | 372,117.00                 | 2,000,000.00        |
| Component 3: Improving conditions for the supply of RE/EE technologies             | 480,541.00                 | 3,380,000.00        |
| Component 3: Improving conditions for the supply of RE/EE technologies             | 360,000.00                 | 1,000,000.00        |
| M&E                                                                                | 76,000.00                  | 500,000.00          |
| <b>Subtotal</b>                                                                    | <b>1,615,775.00</b>        | <b>7,880,000.00</b> |
| Project Management Cost                                                            | 160,711.00                 | 1,120,000.00        |
| <b>Total Project Cost (\$)</b>                                                     | <b>1,776,486.00</b>        | <b>9,000,000.00</b> |

Please provide justification

## PROJECT OUTLINE

### A. PROJECT RATIONALE

Briefly describe the current situation: the global environmental problems and/or climate vulnerabilities that the project will address, the key elements of the system, and underlying drivers of environmental change in the project context, such as

population growth, economic development, climate change, sociocultural and political factors, including conflicts, or technological changes. Describe the objective of the project, and the justification for it. (Approximately 3-5 pages) see guidance here

### *A1. Global environmental problems and climate vulnerabilities*

Vanuatu, like other Small Island Developing States (SIDS), faces significant challenges related to energy access, environmental sustainability and climate resilience. Globally, the need to transition to low-carbon development pathways is critical in limiting the rise in global temperatures to 1.5°C, as outlined in the Paris Agreement. Vanuatu's National Energy Road Map (NERM) and its Nationally Determined Contribution (NDC) aim for 100% rural electrification and a complete transition to renewable energy by 2030.

In 2020, Vanuatu's emissions were estimated at around 634,100 tonnes of CO<sub>2</sub> equivalent (tCO<sub>2</sub>e). With the country relying heavily on imported diesel for power generation, the energy sector contributes to the majority of Vanuatu's GHG emissions. The current energy mix is dominated by fossil fuels, and the use of RE and EE technologies remains underdeveloped, impeding Vanuatu's efforts to achieve its climate and energy goals.

Vanuatu faces key obstacles for achieving its NDC targets, including geographic dispersion, which makes grid extensions challenging and costly, high upfront costs of renewable energy systems, and a lack of technical capacity to install and maintain RE systems. Electricity access stands at 33% of households, but there is widespread variation, with only 17% access in rural areas. Of the households who have access, 64% are connected to the grid, while the remainder rely on solar systems or diesel generators (ADB).

On-grid electricity tariffs range from USD 0.46/kWh to USD 0.70/kWh. Diesel prices vary significantly, ranging from VUV 183/litre (USD 1.53) in the cities to as high as VUV 700/litre (USD 5.84) in remote islands, driven by high transport costs, and the logistical and infrastructural challenges of reaching rural and remote communities. The high cost of diesel, complex supply chains, and reliance on small, isolated grids drive up electricity prices, impeding economic growth, particularly in agriculture and tourism. The lack of reliable and affordable electricity in rural areas contributes to socio-economic disparities, with negative impacts on household livelihoods, education, gender equity, and health. As a result, there are missed opportunities for GHG emission reductions through RE/EE development while prohibitively expensive electricity for many households and businesses, particularly in rural areas, constraints access to reliable and affordable energy.

The National Green Energy Fund (NGEF) was established in 2018 to help address these issues.<sup>[1]</sup> By the end of 2024, NGEF disbursed USD 1.25 million (152 million Vatu) corresponding to 225 installed projects in schools, cooperatives, rural tourism and agriculture projects, area councils, provincial government and households. NGEF's primary objectives are to equitably disburse resources for green energy investments at a national scale, through a transparent and systematic process. NGEF operates as a revolving fund, with resources from international sources as well as annual domestic contributions. It provides four types of funding support: i) debt via intermediaries; ii) equity for project developers and technology providers; iii) risk sharing in the form of a first loss facility for banks; and iv) small grants and subsidies. The operations and administration of the Fund are overseen by a Board chaired by DoE that has representation by civil society and government, and an advisory Board with NGOs and private sector. The Board also includes a female

Director from the Department of Women's Affairs. While the fund has made progress towards expanding access to clean energy, particularly to outer islands, it has invested in a narrow range of solar RE application and faces constraints in scaling up its impact and operating effectively as a vehicle for Vanuatu to achieve its climate goals.

NGEF's main income comes from two sources

- Contributions from a Government fund, funded through electricity consumption levy's on concessions in Port Vila (Efate) (US\$0.0015 (0.17Vatu/kWh)) and Luganville (Santo) (US\$0.017 (2Vatu/kWh)) (Council of Ministers (Decision Number 128/2018)). NGEF cash receipts from the Government fund were at VUV 125.8 million in 2022 and VUV 114.1 million in 2021, accounting for approximately 80% or more of total cash inflows in those years.<sup>[2]<sup>2</sup></sup>
- Principal and interest income from loan repayments making up the remainder of 10-20% income in 2021/2022

As of 2022, cash reserves of NGEF were at just over VUV 222 million (ca. USD 1.9 mio).

#### *A2. Barriers and root causes*

Extensive consultations with NGEF, GoV stakeholders, and representatives from the financial sector and civil society have led to the identification of following barriers and root causes.

#### **Barrier 1: Institutional Capacity**

NGEF faces institutional capacity constraints creating inefficiencies in investment decisions, its management, collection and disbursement of funds, and reducing its capacity to scale investment to more diverse RE applications, be more inclusive, or attract additional capital sources.<sup>[3]<sup>3</sup></sup>

Root causes:

- Individual loans are all authorized by NGEF's Board, which creates bottlenecks and can lead to bureaucratic delays in decision-making. Currently, there are no delegations of authority for investments, including for very small projects, creating approval and reflow inefficiencies.
- NGEF's operational manuals need review and streamlining. For example, key manuals such as the Solar Implementation Manual and the Operations Manual are currently separate documents that would benefit from review and integration.
- NGEF's current product catalogue needs review and updating. For example, NGEF offers oversized products to ensure a harmonized and guaranteed supply among systems independent from site specific characteristics. Updating the manual with newest technology specifications and site-specific installation improvements can lead to smaller systems which can significantly improve affordability and efficiency of the products offered.

- NGEF's repayment process is cumbersome; payments may come quarterly or monthly depending on the borrower type and are manually entered into and managed by a spreadsheet. There is no unified repayment process, so payments come by Western Union, through relatives and other means.
- NGEF is allowed to engage financial intermediaries including banks, credit unions, micro-financing institutions, and even NGOs as intermediaries, which would help NGEF reach borrowers in more remote locations and improve lending and collections efficiency. For example, NGEF, with support from the UN Women has assisted 108 woman-headed homes and businesses, who are members of the Vanuatu Women's Development Scheme (VANWODS), by providing solar powered lights, charging of appliances, deep freezers and sewing machines, used for livelihood activities. VANWODS led the awareness component and also provided significant support to women benefitting from the scheme, such as by providing training on financial literacy. In this scheme, NGEF partnered with VANWODS as financial intermediary responsible for identifying the borrowers and responsible for payment collection. NGEF partially (50%) financed the RE assets while the remaining 50% was provided as grant by UNWOMEN via VANWODS. NGEF signed an agreement with VANWODS and not with each individual borrower. Recently, NGEF has initiated discussions on similar schemes such as with the Vanuatu National Provident Fund (VNPF) or youth-focused NGO Vanuatu Youth Challenge. Arrangements such as these, in which NGEF partners with relevant intermediaries that facilitate financing to rural households and businesses have great potential for further scaling.
- However, negotiation is required to find terms that intermediaries will accept, as NGEF borrowers typically can only accept interest rates below 10%, while banks are unwilling to take on the credit risk at rates below their normal range of 12-27% interest. The BRANTV terminal evaluation identified that the necessary framework to crowd in private capital needs to be in place for NGEF so that it can leverage available capital at a considerably higher level, thereby generating accelerated impact, rather than through soft loans.
- Some of these intermediaries (such as NGOs) require assistance to build capacity in acting as a loan collector including collecting and accounting of loan payments, savings management etc.
- NGEF's credit risk framework needs revision to help it assess and make investment decisions more efficiently and on a broader range of RE/EE technologies.
- On gender, even though NGEF has a detailed and well-articulated gender policy and procedures, there is a gap at the implementation level. While many projects automatically impact women, there is little effort to amplify the impact, reach more women and capture the results.

## **Barrier 2: Awareness**

While NGEF is comfortable making investments in solar PV, there is low diversification in solar RE applications which contributes to it missing opportunities to support projects in rural areas and in RE for productive uses. Existing projects have primarily focused on solar battery systems and water pumping, with limited diversification into other RE/EE technologies such as pico-hydro, wind, and energy-efficient pumps. Even within solar, the product mix can be expanded significantly to meet the energy needs of women and rural communities better.

Root causes:

- There is low awareness within NGEF, GoV and the market generally of potential RE/EE interventions and technologies or their viability in Vanuatu.

- There is limited understanding within NGEF of specific investment opportunities; the level of demand, willingness to pay, risk profile, and feasibility for a broader range of solar RE applications including RE packages for productive uses.
- There is low market awareness on NGEF financing products/programs and no tailored support to women-led initiatives or initiatives from disadvantaged communities for applying for NGEF funds for RE/EE. This limits NGEF's applicant base.

### **Barrier 3: Technical Capacity**

NGEF has an engineering unit which plays an important role in conducting pre-investment studies. However, both NGEF's engineers and local RE vendors/suppliers have limited technical capacity in areas such as energy audits and system design, which has an impact on the quality of pre-investment analysis NGEF can undertake and therefore limits the effectiveness which it can scale-up and diversify investment.

Root causes:

- There is limited provision of specialized technical training on RE/EE system design, energy audits, pre-investment studies, and project appraisal for NGEF engineering staff and local RE vendors and suppliers.
- Local RE vendors and suppliers often lack engineering support and quality assurance mechanisms, resulting in variable system performance and limited trust among potential investors.
- Technical guidelines, data, and standards for RE/EE projects are either outdated or insufficiently disseminated/enforced, leading to inconsistent approaches across projects, particularly for off-grid projects that do not require interconnection approvals.
- There is limited collaboration between NGEF, academic institutions, and technical training centers to build a pipeline of skilled professionals in RE technologies and energy management.
- Universities produce only a limited supply of qualified RE/EE engineers, and those who do graduate often face scarce local job opportunities, leading them to seek work abroad.
- Budgetary constraints restrict NGEF's ability to attract and retain qualified technical experts or hire external specialists when needed.

### **Barrier 4: Financial and Logistic**

Vanuatu faces high costs, delays, and limited availability of RE/EE equipment. This impacts both NGEF and end beneficiaries. For NGEF, technology availability and related price fluctuations can cause cost overruns on investments which contribute to non-performing loans or pose challenges for NGEF in assessing potential investment returns. Meanwhile, when there are cost overruns, shipment delays or supply shortages, costs are eventually passed through as higher tariffs to end-consumers.

Root causes:

- As a geographically isolated archipelago, logistics to and within Vanuatu are costly and challenging. This has flow-on effects including cost-overruns, delays, lower returns than forecast, and reduces the creditability of demonstration projects.

- A lack of outer island supplies of RE equipment contributes to supply shortages, particularly in the event of adverse climate events.
- There is currently no utilization of bulk-purchasing methods to reduce pricing or establish reserve/additional supply of equipment.
- There are few vendors/suppliers for RE/EE equipment in Vanuatu, including in solar PV. NGEF relies on a narrow group of vendors/ suppliers for their investees to procure relevant equipment. This limits the scope of RE/EE projects NGEF can invest in, and if in future NGEF seeks to diversify its portfolio in RE projects which require types of equipment other than solar PV, it exposes NGEF investees to supply-related price fluctuations as there aren't pre-established contracts.

### *C. Proposed alternative scenario*

The project will work to overcome the barriers which prevent NGEF from effectively and efficiently supporting Vanuatu's NERM and NDCs. The objective is to **increase NGEF's ability to upscale financing of RE/EE installations, so it effectively and efficiently supports the NERM and NDCs. In turn this is expected to provide sustainable energy access to 39,645 beneficiaries by 2030 and contribute to 8,959 tCO<sub>2</sub>e in total lifetime direct and consequential greenhouse gas emission reductions.**

This project will address the barriers described above in three ways. Firstly, through targeted technical assistance to build GoV/NGEF staff capacity, streamline and modernize NGEF's operations, build its capacity to manage a broader and more inclusive portfolio of investments in RE/EE applications, and improve its transaction efficiency (component 1). Secondly, through demand-side assistance, which focuses on improving NGEF's awareness and understanding of RE/EE investment opportunities and market awareness of NGEF's products (component 2). And finally, through support aimed at improving conditions for the supply of RE/EE equipment (component 3). Activities under these components are designed to together stimulate lasting market change through achieving the culmination of the following outcomes:

- **Outcome 1: Improved strategic conditions, technical capacity, and operating efficiencies for NGEF to attract increased and diversified funding base and increase its RE/EE investment throughput. Outcome 2: Increased public awareness of NGEF's RE/EE financing products and improved inclusive RE/EE investment opportunities tailored to consumer needs.**
- **Outcome 3: Improved supply conditions for NGEF to expand RE/EE investments across Vanuatu.**

The project's outcomes, aligned with GEF-8 Pillar 1 objectives, will enable Vanuatu to accelerate the adoption of RE technologies, reduce GHG emissions, and enhance climate resilience, particularly in vulnerable rural areas. The long-term sustainability of these outcomes will be supported by strengthening NGEF's financial intermediary relationships, building its capacity to manage fund reflows, payments/collections and disbursements, and strengthening NGEF's RE technology vendor relationships to facilitate predictable supply of equipment, inter alia. The project's contributions to improving NGEF's operating efficiency and effectiveness will also indirectly improve NGEF's bankability and therefore its capacity to mobilize additional sources of funds for long-term impact.

#### *A.4. Alignment with GEF 8 and fit in current landscape of projects/ investments*

The project is aligned with objectives 1.1, 1.2, and 1.3 under Pillar I from the GEF-8 strategic positioning and programming directions, focusing on promoting innovation, technology development, and transfer while fostering enabling policies for mitigation with systemic impacts. Pillar 1.2 objectives aim to trigger transformation in key sectors like energy, transportation, urban development and women's empowerment. The outputs and outcomes under this project are fully in accordance with GEF-8 objectives to accelerate the efficient use of energy and materials (1.1), enable the transition to decarbonized power systems (1.2), and scale up zero-emission mobility of people and goods (1.3) while building on the experience and results from the previous projects.

Specifically, NGEF currently finances some projects with EE refrigeration for agricultural produce and EE lights and air-conditioning for offices (alignment with GEF-8 objective 1.1) capacity building under this project will support NGEF in recognizing potential opportunities to replicate and scale these projects. Additionally, NGEF's current investments are primarily for solar PV/batteries, but UNDP has demonstrated viability of pico-hydro and a NGEF wind farm project (NGEF VUI Devils point) shows the potential viability of wind. While the focus of this project will be on helping NGEF expand its solar PV investments into new applications, it will provide NGEF with foundational research and strategic direction on how it could diversify investments into alternative RE/EE technologies over time (see output 2.1). The project will build capacity of NGEF, vendors, and engineers to expand investment in a wider range of applications for decarbonized power systems (alignment with GEF-8 objective 1.2). Output 2.1 will support NGEF to explore RE technologies and applications in detail. At the same time, the project will be aligned with the [GEF Policy on Gender Equality](#) adopted by the GEF Council in November 2017 and with the UNDP gender equality strategy 2022-25.

UNDP has a strong history of supporting Vanuatu's energy sector through various projects, including most recently the Barrier Removal for Achieving the National Energy Road Map Targets of Vanuatu (BRANTV) Project funded by GEF (US\$ 2,639,726) and implemented from 2018-2024. The BRANTV project provided the necessary groundwork on the basis of which new interventions could be launched in Vanuatu that can catalyse additionality. The terminal evaluation found there is further possibility to effectively leverage available NGEF funds for generation of better renewable energy outcomes, while demonstration of effectiveness of solar power in various off-grid communities would catalyse adoption of solar power through private sector initiatives. While the BRANTV project highlighted the importance of productive uses of energy (e.g., solar-powered freezers), it lacked a strategic focus in this area. The new project will emphasize productive energy applications, particularly in agriculture, tourism, and fisheries, to boost local economies and ensure long-term sustainability.

Furthermore, one aspect of the BRANTV project involved the development of a Resource Mobilization and Institutional Sustainability Plan for NGEF. Recommendations under this plan included engaging private sectors and commercial banks to participate in the lending scheme for RE generations. However, while NGEF made efforts to implement the recommendations, the initiatives encountered challenges with interests' rates computed to be higher than the rate offered. This project will support NGEF to negotiate with potential financial intermediaries (output 1.4) to build on the recommendations of the BRANTV terminal evaluation.

Finally, the capacity building/training exercises under BRANTV were largely restricted to men, and a few individuals in a community which led to succession related issues. Therefore, this project has been designed with an intentional focus on inclusion, targeting women and remote/ marginalised communities.

This project is also fully aligned with the forthcoming GCF investment (Leveraging the National Green Energy Fund (NGEF) to Achieve Rural Electrification in Vanuatu – Concept Stage) which intends to provide solar PV based electricity to around 16,000 rural households in Vanuatu through a mix of subsidy and loan assistance delivered via NGEF's intermediary network. The GEF eNGEF project provides the foundational strengthening required for NGEF to effectively engage in such activities, including enhanced intermediary capacity for repayment, loan management, and collection. Additionally, whereas the GCF project aims to procure up to five mini-grids on a fully grant-funded basis, this project will capacitate NGEF to deploy an innovative blended-finance model for a mini-grid (the first of its kind in Vanuatu) demonstrating NGEF's ability to deliver scaled, sustainable financing for larger rural electrification investments.

This project will also work in close cooperation with ongoing development initiatives including the Vanuatu Green Energy Transformation (VGET) project funded by the Government of Japan (USD 4,622,265) and implemented from 2023-2025; the Solarization of Heads of States (SoHS) (Multi-Country, USD 1.2 million, completed); the Swiss Internationally Transferred Mitigation Outcomes (ITMOs) Vanuatu Fuel Switch Project & Grid Decarbonization project (USD6.12million).

To enhance the impact of its energy interventions, UNDP is adopting a portfolio approach, which involves coordinating and integrating different projects to maximize synergies and address gaps. The proposed GEF-8 MSP aligns with UNDP's energy portfolio and will contribute to Vanuatu's NDC targets and just energy transition by building on the lessons learned from previous projects and collaborating with other stakeholders.

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[1] <https://ngef.vu/>

[2] NGEF Financial Statements 2022: <https://ngef.vu/documents/>

[3] During consultations there was some indication that NGEF also faces limitations in providing sufficient lending capacity for all potential projects. However, NGEF's funding requirements are being addressed in other projects and through other development agencies. NGEF is already in discussion with potential new financiers including bilateral donors, GCF and the Asian Infrastructure Investment Bank. A study exploring new sources of capital for NGEF —The Resource Mobilization and Institutional Sustainability Plan—was developed recently under the Barrier Removal for Achieving the National Energy Road Map Targets of Vanuatu (BRANTV) project and NGEF is currently exploring opportunities for a green bond. It has sources of finance through Government of Vanuatu, World Bank, and other donors. Nevertheless, NGEF's funding needs would be reviewed as part of output 1.1 and, if required, this project will explore options for supporting NGEF further expanding its sources of finance.

## B. PROJECT DESCRIPTION

### Project description

This section asks for a theory of change as part of a joined-up description of the project as a whole. The project description is expected to cover the key elements of good project design in an integrated way. It is also expected to meet the GEF's policy requirements on gender, stakeholders, private sector, and knowledge management and learning (see section D). This section should be a narrative that reads like a joined-up story and not independent elements that answer the guiding questions contained in the PIF guidance document. (Approximately 3-5 pages) see guidance here

As seen in the diagram below, the project impact is to significantly scale up the capacity of the NGEF to finance RE and EE applications, generating increases in clean, affordable energy access, reducing GHG emissions and enhancing the climate resilience of energy systems and communities. This transformation project aligns directly with Vanuatu's Nationally Determined Contributions (NDCs) and National Energy Road Map (NERM) targets, aiming for 100% electrification through renewable energy by 2030. The project reinforces the strategy of the Government of Vanuatu (GoV) and NGEF, established in 2018, to achieve these goals by facilitating investment in sustainable, climate-resilient energy infrastructure and fostering local economic growth, particularly in rural areas.

**If** NGEF's institutional constraints (barrier 1) are reduced through evidence and diagnostic-informed reforms to policies, delegations, credit-risk, and digital transaction systems, **and if** low awareness and weak demand (barrier 2) are addressed via market and feasibility studies, inclusive finance instruments, targeted outreach, and application support (especially for women), **and if** technical and financial/logistic gaps (barriers 3–4) are eased by vendor and engineer upskilling, standardized product catalogs, supply-chain improvements, regional cooperation, and a tested blended-finance mini-grid pilot, **then** NGEF can more efficiently and inclusively channel capital into a larger, more diverse pipeline of bankable RE/EE projects that not only reduce emissions but also strengthen the reliability and resilience of energy access under economic and climate stressors. These pathways are necessary as they remove the specific institutional, demand, and supply constraints that currently limit or entirely block transactions and therefore they jointly create investable demand, capable supply, and a compliant, high-throughput Fund, leading to Outcomes 1–3 and, ultimately, increased installed RE capacity, lower diesel use, improved energy security and service continuity during economic and climate-related shocks, and measurable GHG mitigation and energy-access gains. This logic rests on explicit assumptions: there will be sustained GoV policy commitment to NERM/NDC and NGEF. There will be an adequate market demand once affordability and awareness constraints are tackled. There will be sufficient capital available to NGEF (and intermediaries), and basic grid/off-grid standards and procurement rules will be enforced including the integration of climate resilience standards where relevant. Under these conditions, outputs reliably aggregate to the intended outcomes and impact.

By tackling key challenges – including limited institutional capacity restricting NGEF's growth, low awareness of RE/EE opportunities, technical constraints faced by NGEF and local vendors, as well as financial and logistical barriers driving up costs and delays – the project aims to strengthen NGEF's ability to finance RE and energy efficiency (EE) installations. This is projected to cut over 8,959 tCO<sub>2</sub> in direct and consequential lifetime greenhouse gas emissions and benefit more than 39,000 people, while also enhancing the resilience of households, communities, and essential services to climate- and economic-related disruptions such as cyclones, grid outages and fuel shortages.

To achieve these goals, the project will support the development of diagnostics, manuals, policies, tools, capacity-building programs, financial instruments, marketing campaigns, and pilot initiatives. These efforts will:

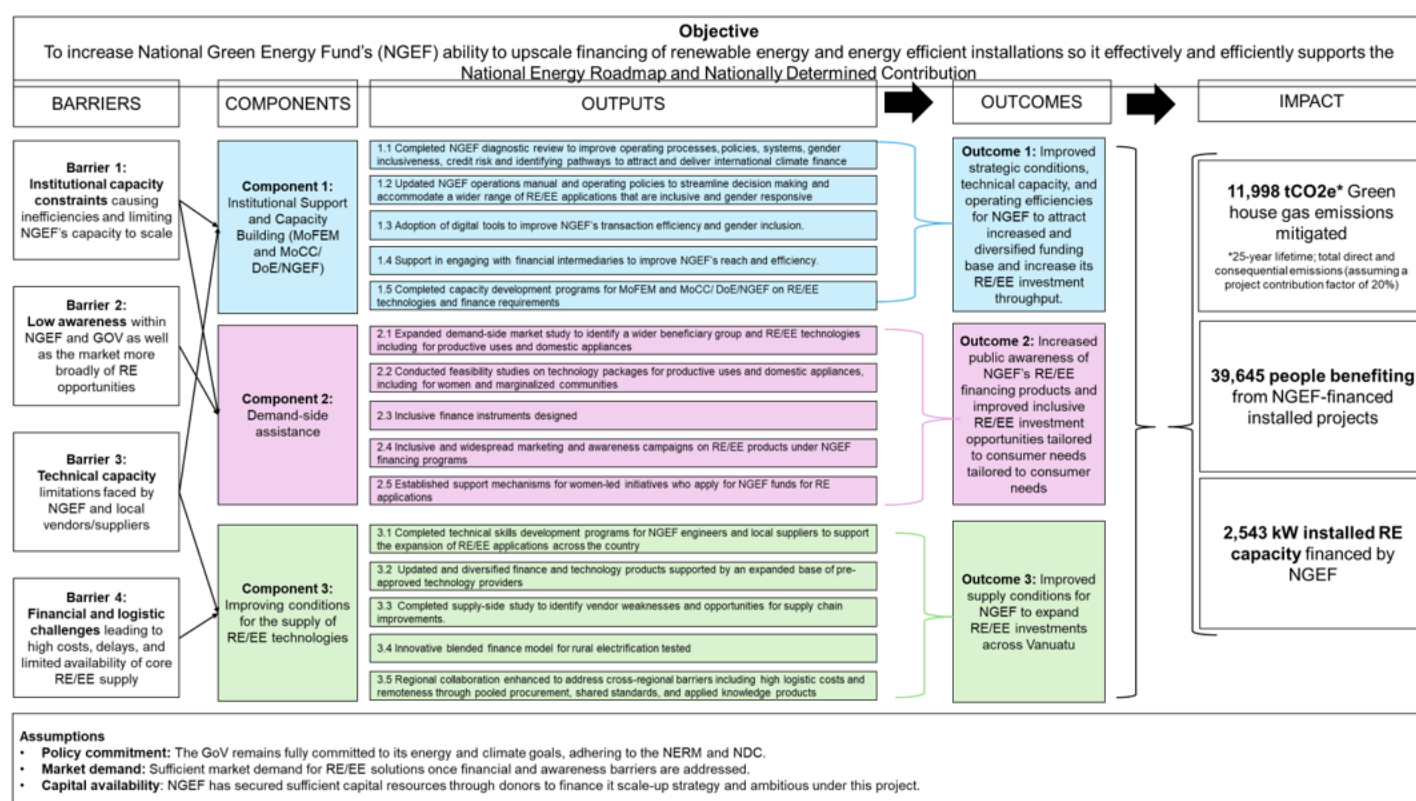
- Enhance strategic conditions, technical expertise, and operational efficiency to help NGEF scale up RE/EE investments.
- Broaden access to inclusive RE/EE investment opportunities that cater to consumer needs.
- Boost public awareness of RE/EE products available through NGEF financing.

- Demonstrate blended finance mini-grid model, increase rural household lending to diversified technology options and expanded product lines, and improve supply conditions to support NGEF's expansion of RE/EE investments across Vanuatu.

The project will build on existing knowledge within NGEF, integrating lessons from previous RE/EE projects in Vanuatu and across the Pacific region. New knowledge generated from this project, particularly around supply-chain innovations, RE technologies and productive use of energy, will be captured and shared through regional cooperation networks. Additionally, the project will contribute to improving national policies by aligning NGEF operations with Vanuatu's energy roadmap, Vanuatu's national gender equality policy, and international commitments under the Paris Agreement, fostering policy coherence across energy, climate mitigation and adaptation, and development sectors.

To achieve the desired impact, the project is structured in three components. Gender mainstreaming is integrated throughout, ensuring equitable access to energy solutions and economic opportunities for women and marginalized groups. The projected outcomes are interconnected, and the achievement of some of them will contribute to the achievement of others.

Diagram 1: Theory of Change



### Component 1: Institutional Support and Capacity Building (MoFEM and MoCC/ DoE/NGEF)

The first component focuses on enhancing institutional support and capacity building for the Government of Vanuatu (GoV), specifically targeting the Ministry of Finance (MoFEM), the Ministry of Climate Change (MoCC), the Department of Energy (DoE), and the National Green Energy Fund (NGEF). The objective of this component is to address barriers in NGEF's institutional capacity (barrier 1) and key stakeholders' technical capacity (barrier 3). Therefore, this component is expected to generate the following outcome: **Outcome 1: Improved strategic conditions, technical capacity, and operating efficiencies for NGEF to attract increased and diversified funding base and increase its RE/EE investment throughput.** The outputs under this component are designed to enable NGEF to broaden and increase its RE investments, while, at the same time, to improve NGEF's ability to attract new donors and sources of capital. Activities under this Outcome are specifically designed to expand the NGEF's product mix to address women's productive energy needs. Value chains that include women as producers, processors and business owners will be mapped and identified, so that productive use initiatives are tailored to those special endeavors preferred by and suitable to women. In addition, a strong focus on women's involvement in productive uses will enable women to increase their incomes and thus increase their resources and status in the household and village.

These measures will strengthen NGEF's financial sustainability by improving repayment performance, increasing capital reflows, and enabling the Fund to operate as a more efficient and scalable revolving financing mechanism over time.

Outcome 1 will be achieved through activities under five key outputs. These are as follows:

*Output: 1.1: Completed NGEF diagnostic review to improve operating processes, policies, systems, gender inclusiveness, credit risk and identifying pathways to attract and deliver international climate finance.*

- The project will conduct a comprehensive diagnostic review of NGEF's operational policies, processes, and systems, identifying specific pathways for improvement. This review will assess NGEF's gender-responsiveness and recommend enhancements in policies, procedures, and NGEF's institutional framework to facilitate more effective operating and efficient investment processes. The review will cover NGEF's risk management, focusing on NGEF's credit risk to form recommendations to streamline risk management and create clearer guidelines for project finance and delegation of authority. The review will also examine NGEF's operating sustainability and capital requirements for it to achieve its investment growth strategy.

*Output 1.2: Updated NGEF operations manual and operating policies to streamline decision making and accommodate a wider range of RE/EE applications that are inclusive and gender responsive.*

- Under this output the project will address the findings from the diagnostic review in output 1.1 as well as market findings from output 2.1. Here the project will support NGEF to implement enhancements across its operations and update its operating manuals and strategic plan. This will include addressing the inefficiencies identified in NGEF's delegations for investing in small projects.

*Output 1.3: Adoption of digital tools to improve NGEF's transaction efficiency and gender inclusion.*

- This output addresses NGEF's deficiencies in the management of payments and disbursements. The project will evaluate various forms of improving transactional efficiency, such as on-line or on cell phone payment systems, and support NGEF to implement selected systems and online tools. This will include updating NGEF's standard operating procedures (SOPs)/operating manual and training staff on use of the selected tools as needed.

*Output 1.4: Support in engaging with financial intermediaries to improve NGEF's reach and efficiency.*

- Under this output the project will support the negotiation of agreements with intermediaries such as the Vanuatu Rural Development Bank (VRDB), the Vanuatu National Provident Fund (VNPF), or NGOs and micro-financing organizations (VANWODS, Youth Challenge Vanuatu) to improve NGEF's reach, collection efficiency, and payments management, particularly in remote locations, by leveraging the existing banking infrastructure or other member-ship based networks with wide reach in rural areas. This output will work in unison with output 2.3 to enable NGEF to establish partnerships with financial institutions and financial instruments, such that the financial institutions can provide liquidity while NGEF can preserve its capital.

*Output 1.5 Completed capacity development programs for MoFEM and MoCC/ DoE/NGEF on RE/EE technologies and finance requirements*

- Project activities for this output include the preparation and delivery of training workshops and events on topics such as: RE finance opportunities, best practices in RE investment management and disbursement, potential RE technologies for Vanuatu with a focus on solar PV applications (e.g., for productive use) that are new to NGEF, and gender-sensitive investment and financing opportunities. Furthermore, training will be provided to new intermediaries (such as NGOs) requiring assistance to build capacity in acting as a loan collector including collecting and accounting of loan payments, savings management etc.

Expected deliverables of Outcome 1 are as follows:

- Comprehensive diagnostic review of NGEF's operational policies, processes, systems, credit-risk framework, gender responsiveness, and capital pathways.
- Updated and integrated NGEF operations manual and policy framework, including streamlined procedures and revised product catalogue.
- Digital transaction and payment management tools, including updated SOPs and staff trained in their use.
- Formalized agreements and partnerships with financial intermediaries, including defined roles in lending, outreach, and repayment collection.

- Capacity development programmes delivered to MoFEM, MoCC/DoE, and NGEF staff, including training modules, workshops, and materials on RE/EE finance, investment management, and gender-responsive financing.

### *Component 2: Demand-side assistance*

The second component is designed to stimulate demand for RE/EE solutions in Vanuatu by expanding NGEF's target beneficiaries and the scope of its interventions. The component focuses on identifying the needs of underserved segments and ensuring that NGEF reaches a wider range of customers, men and women and particularly in rural and disadvantaged communities. It is designed to overcome awareness barriers (barrier 2) faced by NGEF and the market more broadly as well as address some of the institutional capacity constraints (barrier 1) which have prevented NGEF from making more inclusive investments and leveraging its capital effectively (reinforcing component 1). The component has one Outcome: **Outcome 2. Increased public awareness of NGEF's RE/EE financing products and improved inclusive RE/EE investment opportunities tailored to consumer needs.**

This Outcome will have a dedicated focus on establishing gender-responsive outreach mechanisms and expand the outreach of NGEF to islands beyond Port Vila. The design of this component has been informed through consultations with intermediary organizations such as VANWODS and Youth Challenge Vanuatu, which represent extensive networks of rural and off-grid communities, as well as through UNDP's ongoing engagement with communities under related energy initiatives. The project will capitalize on existing networks, for example, the VANWODS network, as well as the decentralized governance mechanisms of the provincial governments, area councils and churches. Vanuatu also has around 50 women's organizations that will be mobilized. Besides, other programmes such as the Spotlight Initiative, the Pacific Partnership to End Violence Against Women, Women's Resilience to Disasters, Vanuatu Youth Challenge etc. will be leveraged to reach more women and their networks across the country. An important element of the outreach mechanism will be educating women about the benefits of energy solutions and how they can be applied to their businesses and agriculture to improve productivity and income. At the same time, the communication tools and mediums will be revisited to ensure that they use appropriate language; and show women in active leadership roles.

Outcome 2 will be achieved through five key outputs. These are designed to overcome awareness barriers which contribute to NGEF having a narrow range of beneficiaries (schools, cooperatives, etc.) and of solar PV applications it invests in. By increasing awareness of key stakeholders on NGEF's suite of financing products, this Outcome aims to support NGEF in targeting a broader range specific market segments, including women and communities living in remote islands where information availability is a serious constraint.

*Output 2.1: Expanded demand-side market study to identify a wider beneficiary group and RE/EE technologies including for productive uses and domestic appliances*

- NGEF has conducted an initial market study to evaluate demand for solar systems. Output 2.1 will expand on NGEF's existing market study, conducting a broader analytic report, designed to identify new beneficiaries and potential RE/EE applications which NGEF has otherwise not explored. This will include identifying electrification opportunities for productive uses for men and women and in dispersed islands, determining technology needs in well-connected vs. outer-island communities, assessing demand, pent-up demand, and financial feasibility for solar RE applications for productive uses and willingness to pay (affordability) for men and women, gender diagnostics, and gathering marketing recommendations for effective outreach. The study will also explore potential new investee groups as well as new RE applications such as water pumping, agricultural processing, RE applications for tourism industry, small eateries to establish productive use applications where income can be generated to pay back NGEF loans. The study will also assess the demand for domestic appliances which are to be included in financing packages of NGEF's product portfolio. This output includes an in-depth assessment to understand the needs of women and marginalized groups, incorporating the findings into a Gender Action Plan. NGEF currently invests in a narrow range of RE technologies, however, the board has mixed levels of comfort with diversifying NGEF's technology investments beyond solar. Therefore, while this output will focus on diverse *applications* for solar, it will also include a light-touch analysis on the demand and viability for NGEF to invest in other RE technologies over time—e.g. wind, biomass, pico-hydro—to support the board making more informed decisions during future strategic planning cycles (addressing barrier 1).

*Output 2.2: Conducted feasibility studies on technology packages for productive uses and domestic appliances, including for women and marginalized communities*

- Output 2.2 is linked with output 2.1 and will support NGEF to conduct specific feasibility studies for technology packages that integrate RE/EE technologies for productive uses and domestic appliances in key sectors such as agriculture, fisheries, and small commerce. Studies will also consider environmental, social and gender dimensions of investment opportunities. The feasibility studies will also target the pilot investment under Output 3.4 and thus reduce project development costs, improve investor confidence and information, thereby supporting the facilitation of the investment.

*Output 2.3 Inclusive finance instruments designed*

- The BRANTV terminal evaluation identified that for the NGEF to scale up, it should enter partnerships with various financial and intermediary institutions. However, as financial institutions may not be able to provide interest at concessional rates which would be affordable to NGEF target users, NGEF could preserve its capital and provide an interest rate subsidy to make the transaction economically feasible for the financial institution. As well as an interest rate subsidy, the BRANTV terminal evaluation also noted potential for a credit guarantee fund. Hence, under this output the project will be building on the learnings from BRANTV to identify and design financing instruments which enable NGEF to continue to offer concessional rates while leveraging its capital at a higher level and reaching a broader audience. This output focuses on the design of beneficiary-facing financial instruments and financing mechanisms

that enable households, small businesses, farmers, schools, and women-led enterprises to access RE/EE solutions. Activities under this output are: i) consolidate findings from output 2.1 to identify target beneficiaries and their needs; ii) develop the terms and eligibility criteria for specific new instruments e.g. subsidized/low-interest rates, flexible repayment terms, and conditions designed to support low-income households and female-led enterprises in adopting RE/EE technologies; iii) train and partner with financial intermediaries (based on agreements formed under Output 1.4) on how to manage and deliver financial instruments to electrification customers, including marginalized and hard-to-reach communities. This may include credit guarantees, subsidized loans, and services specifically tailored to women's needs; iv) establish a monitoring and evaluation system that tracks the effectiveness of the arrangement with intermediaries, including the participation rates of women and marginalized communities, and the social, economic and gender impacts of the energy projects, ensuring collection and processing of data disaggregated by gender, location, and income; v) training and onboarding NGEF staff to operationalize the program. The instruments developed under this output define how RE/EE investments are financed and delivered to end-users, including terms, eligibility criteria, and delivery mechanisms through intermediaries. The instruments will be aligned with the standardized technology packages defined under Output 3.2, ensuring that financing solutions are directly linked to technically validated RE/EE products.

*Output 2.4: Inclusive and widespread awareness campaigns on RE/EE products under NGEF financing programs.*

- This output is achieved by combining the insights under output 2.1 and 2.2 to i) establish a targeted marketing and awareness strategy for NGEF financing products and programs, including on the benefits and viability of a broader range of RE/EE applications, such as solar RE for productive uses, aimed at different user groups e.g. fisheries, agriculture, and retail ii) develop marketing materials; iii) implement and coordinate a series of campaigns for relevant potential sectors and stakeholders; and iv) evaluate marketing outcomes; and v) capture and integrate lessons learned and beneficiary feedback.

*Output 2.5: Established support mechanisms for women-led initiatives who apply for NGEF funds for RE applications.*

- This output is achieved by combining the insights gained under output 2.1 and 2.2 to i) develop a comprehensive strategy for gender responsive and affirmative support for women-led initiatives and marginalized groups; ii) design simplified and inclusive application processes for NGEF's grants and soft loans, with support services to help women and marginalized groups navigate the application requirements. iii) in close partnership with other relevant organizations (i.e. NGOs, CSO), provide technical support to beneficiaries (e.g., female entrepreneurs, small businesses, farmers) to help them understand and assess alternative renewable energy options, develop proposals and maximize the productive use of energy. This may include, among others, assistance with business planning, proposal writing, financial analysis, and project management. These activities are expected to strengthen the financial viability of supported investments by enabling income-generating uses of energy, thereby improving beneficiaries' repayment capacity and contributing to sustained revenue flows and capital reflows within the NGEF.

Expected deliverables for Outcome 2 are as follows:

- Demand-side market study, identifying new beneficiary segments, RE/EE applications, productive-use opportunities, affordability levels, and gender-specific needs.
- Feasibility studies for prioritized RE/EE technology packages (including productive uses and domestic appliances), incorporating technical, financial, environmental, social, and gender considerations.
- Inclusive financing instruments designed, including defined terms, eligibility criteria, and operational frameworks (e.g. concessional loans, guarantees, subsidies).
- Targeted marketing and awareness strategy, including communication materials, outreach campaigns, and evaluation of campaign effectiveness.
- Gender-responsive support mechanisms established for women-led and marginalized group applications, including simplified procedures, technical assistance services (e.g. business planning, proposal support), and partnership arrangements with NGOs/CSOs.

### *Component 3: Improving conditions for the supply of RE/EE technologies*

The third component is designed to overcome barriers 3 and 4 described earlier and related to supply-chain logistics, financial barriers for supplying outer islands with RE/EE equipment, and technical capacity constraints among NGEF engineers and local vendors. This is expected to result in **Outcome 3: Improved supply conditions for NGEF to expand RE/EE investments across Vanuatu.**

This Component will also incentivize the inclusion of women to take on roles in the RE supply chain. Currently, the number of women in the RE supply chain is very limited, the overall sector itself is very small. As the sector grows, women (along with men) can be encouraged to enter the sector, through trainings on technology use and maintenance, sales and marketing, bookkeeping and financial management of businesses. Women can be engaged in assembly and installation of technology systems including solar panels, controllers and inverters for home systems; solar water heaters; solar lanterns; and LED (light emitting diode) lamp assembly and sales. At the same time, the pilots under this Component will be promoted to field-test and come up with suitable packages of RE applications for women.

Outcome 3 will be achieved through five inter-related outputs.

#### *Output 3.1 Completed technical development programs among NGEF engineers and local suppliers to support the expansion of RE/EE applications across the country*

- Under this Output, local vendors and NGEF engineers will receive training to enhance their ability to conduct high-quality pre-investment studies for RE/EE projects. In partnership with an adequate training institution (e.g. Vanuatu Institute of Technology), technical training sessions will be developed and organized covering areas such as on energy audits and system design. Together with the training institute, the project will also develop training materials and deliver a series of technical workshops covering aspects like the design, implementation, and (preventative) maintenance of energy systems as well as methodologies for technical, financial, and environmental analysis. This will ensure that vendors and engineers have foundational skills to support the expansion of RE/EE applications across the country, and that communities will have local skill set and expertise to appropriately operate and maintain the systems. Integrating the capacity-building activities into ongoing curricula (or updating them) will allow for sustainable continuation of training activities after the end of the project. Whereas Output 1.5 focuses on building capacity for NGEF and GoV stakeholders to deploy finance to a broader range of RE/EE applications and to wider range of beneficiaries, Output 3.1 focuses on technical skills for ensuring the supply, operation and maintenance of relevant RE/EE technologies. An effort will be made to include both men and women in these activities and trainings. Activities under this output could include the creation of standardized templates and toolkits for feasibility and pre-feasibility studies that include technical specifications, financial models, risk assessments, and environmental/social impact considerations.

*Output 3.2: Updated and diversified finance and technology products supported by an expanded base of pre-approved technology providers*

- Activities under this output will support NGEF to update and expand its product catalogue by introducing standardized finance and technology solutions, including dedicated products for productive-use equipment and efficient household appliances. This will be complemented by broadening the base of pre-approved technology providers and integrating updated technical standards to ensure quality, affordability, and accelerated uptake across rural communities. Activities leading to this output will also include (i) identification of and engagement with additional technology providers to offer renewable energy and energy efficiency solutions, (ii) consultation with technology providers to establish standard packages of RE/EE, and (iii) technical support to NGEF to review and update procurement procedures and expand standing offer contracts with pre-approved providers to streamline procurement and, as viable, achieve bulk pricing discounts. This output thus focuses on the technical structuring of NGEF's product and technology catalogue, including the identification, standardization, and pre-approval of RE/EE systems and suppliers. The standardized technology packages developed under this output will be financed through the instruments designed under Output 2.3, ensuring alignment between technical solutions and accessible financing mechanisms. Support will also be provided to NGEF to design the tendering process, financial structuring, and Performance-Based Payment (PBP) mechanism to be implemented under Output 3.4.

*Output 3.3 Completed supply-side study to identify vendor weaknesses and opportunities for supply chain improvements.*

- Activities under this output are designed to complement the market/ demand-side study under output 2.1. Here the project will: i) conduct a detailed assessment of current capabilities, including technical knowledge, experience with renewable energy technologies, and logistical capacity of vendors,

including men and women; ii) organize focus group discussions and interviews with vendors to understand the constraints they face in scaling their operations and delivering quality services; iii) evaluate the availability of essential components (solar panels, batteries, inverters, etc.) and spare parts, especially for rural or outer island areas; iv) develop a comprehensive map of the supply chain for RE/EE technologies identify critical points of failure or delays in the supply chain; v) investigate opportunities for introducing more strategic procurement or cost savings; vi) identify opportunities to improve supply chain resilience. Women vendors may need additional assistance.

#### *Output 3.4: Innovative blended finance model for rural electrification tested*

- Building on the institutional capacity building (Component 1), insights from the relevant assessments (Output 2.1 and 3.1) and technical assistance provided under this project, this output will pilot a new blended-finance model for rural mini-grids.<sup>[11]</sup> Under this approach, the Department of Energy (DoE) will tender a mini-grid concession to a qualified mini-grid operator. NGEF will provide loan financing (from its own capital) and capital subsidies (from the project), as required, with the latter expected to be delivered in the form of Performance-based Payments (PBP). The design and scope of the PBP will be defined during project implementation (Output 3.2) and will be reviewed and validated by UNDP's Multi-Country Office (MCO) and Regional Technical Advisor (RTA) before its deployment. Additional financing partners (such as the Vanuatu National Provident Fund) or other institutions to be identified during implementation (Output 1.4), will contribute further capital to the investment. The mini-grid developer is expected to provide equity, with the final capital structure (equity, debt, and capital subsidies) determined through the tender process and shaped by private-sector interest and tariff affordability considerations. Feasibility studies (technology potential, estimated demand, productive uses etc.) conducted under Output 2.2 are expected to inform this process to reduce project development costs and increase interest from the private sector. In parallel, under this Output, NGEF will roll out additional technology and financing products that were developed under this project (Output 2.3 and 3.3). Examples include loans to rural households, businesses and cooperations for productive uses or efficient household appliances to stimulate demand and thus further strengthen the business case for private-sector investment. This holistic approach will demonstrate NGEF's ability to blend financial innovation with diversified technology options and expanded product lines, positioning the fund as a catalytic national vehicle for scaled rural electrification.

#### *Output 3.5: Regional collaboration enhanced to address cross-regional barriers including high logistic costs and remoteness through pooled procurement, shared standards, and applied knowledge products*

- Activities will include facilitating coordination with regional energy initiatives, conducting joint assessments with neighboring countries, developing shared technical standards, exploring pooled procurement opportunities to reduce logistics costs, and producing applied knowledge products that capture and disseminate lessons across the region. Contacts to other electrification projects in the Pacific will be established and utilized to exchange best practice and regionally-tested procurement tools, O&M models, and tariff frameworks. The project will further closely collaborate with other ongoing global and regional energy access and mini-grid projects, such as the Africa Mini Grid Program (GEF ID 10413), led by UNDP, and the Global program on renewable energy systems in

SIDS (GEF 12229), led by UNIDO, to benefit from lessons learnt (e.g. on the establishment a long-term and sustainable financing mechanism) and to maximize benefits arising from common areas of overlap between these projects.

Expected deliverables of Outcome 3 are as follows:

- Technical training programmes delivered to NGEF engineers and local suppliers, including training materials, workshops, and standardized toolkits for system design, energy audits, and project appraisal.
- Updated and diversified NGEF technology and financing product catalogue, including standardized technology packages and expanded pool of pre-approved suppliers.
- Supply-side assessment, including mapping of vendor capacities, supply chain constraints, logistics challenges, and identified opportunities for improvement and cost reduction.
- Blended-finance mini-grid model piloted.
- Regional collaboration mechanisms established.

Together these component outcomes will increase NGEF's ability to efficiently and effectively scale up of RE/EE in Vanuatu, particularly in remote diesel-dependent and climate-vulnerable areas.

For the project's theory of change to hold and its outcomes to be achieved, two key assumptions must be valid. First, it assumes that the policy environment and GoV will remain fully committed to its energy and climate goals, particularly through adherence to the NERM and NDCs. This commitment is crucial for the successful implementation of institutional reforms and capacity building. Secondly, the project assumes that there will be sufficient market demand for RE/EE solutions once financial and awareness barriers are addressed.

The path proposed in the project to achieve the expected impact has been outlined based on the experience UNDP accumulated from supporting Vanuatu's energy sector through various projects, including the BRANTV, VGET, SoHS, and Swiss ITMO projects.

## **Gender Equality and Women's empowerment**

The NGEF Operations Manual, 2019 outlined several policies and intended procedures to integrate gender within the working of the NGEF and contribute to gender equality and women's empowerment, not all of which are being currently implemented. Nonetheless, several projects implemented by NGEF have had a significant impact on the lives of women, especially those related to solar powered refrigerators and deep freezers, solar water pumps and home systems. The eNGEF project is classified as **GEN2** (i.e., gender equality is a significant

objective). The project will implement a dedicated Gender Action Plan (GAP), with the objective to achieve gender transformative results in the following areas: (a) Enhanced participation and decision making of women and their networks in NGEF, through accessible, inclusive and gender-responsive mechanisms within NGEF; (b) women's improved access to socioeconomic benefits and services offered by NGEF through mapping and responding to women's energy and financial needs in the NGEF product mix, (c) a gender-responsive outreach and communication strategy; (d) encouraging women to enter the supply side as technology suppliers and service providers and (d) a gender responsive monitoring system, disaggregating the overall project performance indicators by gender where relevant. The production and use of sex-, age- and geography (rural/urban)-disaggregated data relevant to capture gender equality results in NGEF strategies, plans and programmes. Periodic surveys including age- and sex-disaggregated time-use surveys in rural areas to assess women's and men's respective amounts of time dedicated to productive and reproductive work (including unpaid household work and care, community-related activities, subsistence activities and income-generating activities) will be conducted. Data collected on gender-specific results, including progress on the implementation of the Gender Action Plan, will be systematically monitored and reported in Project Implementation Reports (PIRs), as well as in the Mid-Term Review (MTR) and Terminal Evaluation (TE).

The GAP is cross-cutting across all project components and will be monitored on an ongoing basis and progress reported as part of annual progress reports.

## **Stakeholder engagement**

Extensive consultations were held during two missions in February and May 2024, and one in November 2025. Stakeholders included representatives from Government and ministries, national financing institutions, utilities and the private sector, development partners and diplomatic representations, civil society, NGOs, microfinancing institutions and women groups, and training institutes and academia (please refer to the names of each stakeholder in list of stakeholders in the corresponding section below). During the mission in May 2024, interviews with 15 agencies were held and 17 high level participants attended a stakeholder consultation workshop. The final project document was validated during a mission in November 2025 in bilateral consultations with key project stakeholders and during a wider stakeholder consultation workshop with 15 high level representatives from relevant organisations on 27 November 2025. NGOs and CSOs with strong community outreach (e.g. VANWODS, Youth Challenge Vanuatu) played a key role in representing rural and off-grid populations during project design and validation, including participation in the November 2025 stakeholder workshop. Furthermore, through its ongoing energy related activities, UNDP has close discussions with many local councils on an ongoing basis.

The project will involve collaboration with various stakeholders, including civil society, academia, and the private sector. Overall, the project implementation is designed to leverage existing partnerships, strengthen project management, promote local ownership and ensure effective utilization of resources. It is expected that local institutions such as Area Councils as well as local community-based organizations will play a key role in terms of promoting community engagement, ensuring a wide reach of information about NGEF and supporting local organisations and networks to apply for NGEF funding. A detailed Stakeholder Engagement Plan (SEP) has been developed and is attached as Annex (8) to this proposal. The SEP provides for a strategy how the

project aims to engage with all relevant stakeholders, including conducting public consultations, disclosure of information, grievance redress mechanism and how the impacts of stakeholder engagement activities will be monitored.

The following table shows the current responsibilities of the key stakeholders and their proposed roles in the project:

| Stakeholder                                  | Current responsibilities                                                                                                                              | Proposed roles in the project                                                                                                                 |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Ministry of Climate Change                   | Oversees policy and planning for energy, environment, climate resilience, and disaster risk management, chairs the NGEF board                         | Lead executing entity/ <b>implementing partner</b> responsible for overall coordination and policy alignment with NERM and NDC objectives.    |
| Department of Energy                         | Develops energy policies, regulates energy efficiency for appliances and lighting, deputizes to the chair of NGEF board.                              | Provides <b>technical oversight</b> ; monitors project progress and <b>supports regulatory alignment</b> of RE/EE initiatives.                |
| National Green Energy Fund                   | Main agency supporting NERM goals, managing investments for renewable energy access and electrification since 2018.                                   | <b>Primary recipient</b> of capacity-building efforts under the project; <b>implements financing mechanisms</b> and drives RE/EE investments. |
| Ministry of Finance and Economic Development | Allocates finance and budget for Ministries, channels international finance. Provides NGEF with funding as well as an account for reflows from loans. | Provides financial oversight to NGEF and will maintain support for project's activities towards streamlining NGEF's financial processes       |
| Reserve Bank of Vanuatu                      | Registers all Regulates and registers commercial banks, ensuring financial system stability.                                                          | <b>Facilitates partnerships</b> with commercial banks for NGEF financial intermediaries; supports credit flow to remote areas.                |
| Commercial Banks                             | Focus on market-oriented lending, primarily in urban centres, where credit risk is lower.                                                             | Serve as <b>potential financial intermediaries</b> ; expand outreach through NGEF-backed concessional lending.                                |
| Department of Women's Affairs                | Advocates for gender equality; addresses women's needs and grievances; participates in national development planning. Represented on the NGEF Board.  | Responsible for taking the lead in identifying women's needs and addressing women's grievances through Area Councils.                         |
| Civil society, local Area Councils           | Implement local energy projects, provide governance support, and manage public services.                                                              | <b>Partners in outreach campaigns and community engagement</b> to promote project awareness and participation.                                |

## Knowledge management

Knowledge management is integrated throughout the project components. The project will leverage existing knowledge from previous RE/EE initiatives in Vanuatu and the broader Pacific region. This includes drawing on lessons learned from UNDP and NGEF's ongoing energy projects, as well as best practices from similar small island contexts. The project will generate new knowledge by conducting feasibility studies, market assessments, and piloting new technologies, which will expand the evidence base for RE/EE investments in Vanuatu. This knowledge will be systematically captured through detailed reports, case studies, and monitoring and evaluation data. A centralized knowledge management platform will be established to store this information, ensuring it is easily accessible for project stakeholders. The platform will facilitate the sharing of lessons learned with government entities, financial institutions, and local communities, supporting informed decision-making for future RE/EE projects. Additionally, this knowledge will be shared through workshops, publications, and regional partnerships, ensuring that both local and international stakeholders benefit from the project's insights, contributing to wider replication and scaling in similar contexts. Knowledge products developed under this project will specifically target capturing lessons learned in advancing gender equality and promoting women's empowerment. These will be widely disseminated through multiple channels, including workshops and stakeholder consultations, regional knowledge-sharing platforms, policy briefs, and case studies, project websites, and social media. Dissemination will also take place through partnerships with NGOs, women's organizations, and regional networks to ensure uptake and replication.

## Risks to project Implementation

The project faces limited risks across different dimensions, including institutional capacity, financial sustainability, stakeholder engagement, and environmental factors (shown in the Risks to Project Implementation Rating table). An initial HACT Micro Assessment showed an overall "Moderate Risk" (Feb 2020) and PCAT showed an overall "low risk" (May 2024). A new HACT MA was conducted in November 2024 which concluded that the overall assessment of the Implementing Partner's programme, financial and operations management policies, procedures, systems and internal controls with regard to cash transfers is **low**. Nevertheless, partner/institutional risks in MoCC could result in delays in project implementation. To mitigate this risk, the project will be implemented through dual execution support from UNDP MOC Fiji and it includes targeted capacity-building initiatives.

Stakeholder engagement is another critical risk area, particularly the potential exclusion of women and marginalized groups, including ethnic minorities, from project benefits. This will be addressed through a comprehensive stakeholder engagement strategy and a gender-responsive communications strategy that ensures inclusive consultations and participation, with a focus on safeguarding the rights of local communities.

Geographic remoteness and climate-induced risks, such as cyclones and earthquakes, present additional challenges. These risks could affect project timelines and infrastructure resilience. The project will mitigate these risks by aligning its implementation schedule with Vanuatu's disaster management strategies and integrating robust contingency planning. By addressing these risks through comprehensive mitigation strategies, the project aims to ensure the smooth delivery of its outcomes while adapting to potential challenges.

This project is categorized as 'moderate', according to the UNDP Social and Environmental Screening Report included as an annex. Project activities will be carried out in a manner consistent with UNDP Social and Environmental Standards, not only using a no-adverse effects approach, but also assessing the social

and environmental sustainability of mitigation and adaptation measures identified and reported by the country in transparency initiatives.

[1] The proposed concessional funding will not contravene UNDP's Policies and Procedures in effect at the time of implementation. Any financial mechanism involving GEF funding will be subject to review and validation by UNDP's Country Office and RTA.

## Institutional Arrangement and Coordination with Ongoing Initiatives and Project.

Please describe the Institutional Arrangements for the execution of this project, including financial management and procurement. If possible, please summarize the flow of funds (diagram), accountabilities for project management and financial reporting (organogram), including audit, and staffing plans. (max. 500 words, approximately 1 page)

The project will be executed by the Ministry of Climate Change (MoCC) (Implementing Partner in UNDP's terminology). The GEF Implementing Agency for this project will be UNDP providing overall technical and operational oversight. The institutional arrangements are designed to ensure effective management, accountability, financial reporting, and alignment with UNDP and GEF policies. See diagram 2.

### *a. Project Oversight*

The MoCC will execute the project under National Implementation Modality (NIM).

Second Level Oversight: UNDP's Regional Bureau oversees RR and function of UNDP compliance at portfolio level. BPPS RTA oversees functions of technical oversight and GEF compliance in project assurance. BPPS NCE PTA oversees RTA function. UNDP GEF Executive Coordinator and Regional Bureau Deputy Director can revoke DOA/cancel/suspend project or provide enhanced oversight.

### *b. Financial management*

Financial oversight will be safeguarded through established UNDP multi-tier approach to ensure compliance with GEF and UNDP policies and procedures, in line with POPP. The total project funding consists of USD 1.77 million from GEF and USD 9 million from the Government of Vanuatu, primarily through the National Green Energy Fund (NGEF) revolving loan facility and ongoing government contributions in cash and in-kind support.

### *c. Project Steering and Coordination*

A Project Steering Committee (PSC) will be established to provide strategic guidance and facilitate multi-stakeholder collaboration. The PSC will include senior officials from relevant ministries, including the Ministry of Finance and Economic Management, and the Department of Energy. The project will involve collaboration and consultation with various stakeholders, including civil society, academia, and the private sector. Other coordination will occur occasionally and through GoV designated coordination agents.

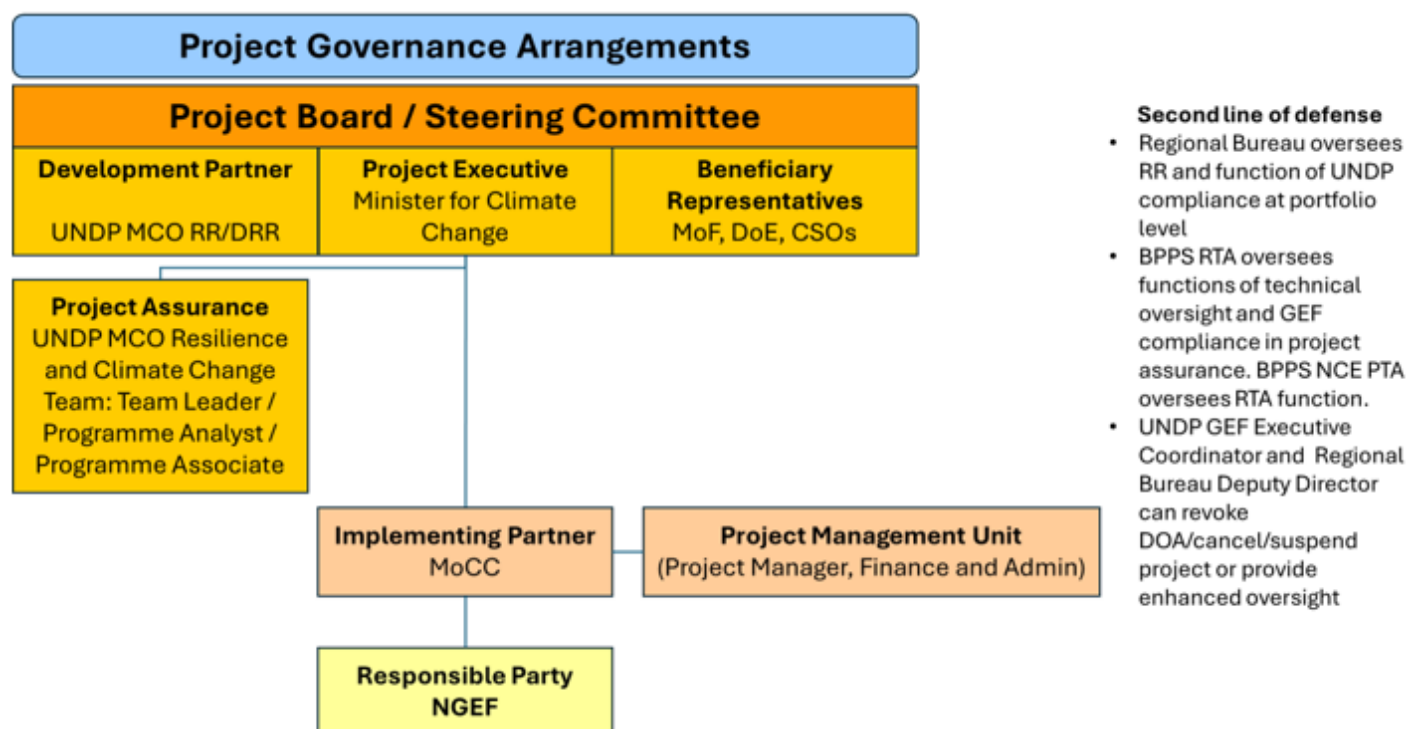
The project will align closely with other ongoing initiatives, including the BRANTV and VGET projects, which have already demonstrated technology interventions and consulted communities in the region. Moreover, coordination will occur with the forthcoming GCF Rural Electrification project, the Green Transformation Project and the Asian Development Bank's (ADB) mini-grid project, ensuring coherence and collaboration on rural electrification and community empowerment.

### *d. Execution and Implementation*

The MoCC will execute the project under National Implementation Modality (NIM). MoCC and UNDP have partnered in implementing several projects, such as the "Vanuatu Coastal Adaptation Project (VCAP)" funded by GEF LDCF (2014-2018); "Barrier Removal for Achieving the National Energy Road Map Targets of Vanuatu (BRANTV)" project funded by GEF (2018-2020); and currently "Vanuatu Coastal Adaptation Project, Phase2 (VCAP 2)" funded by GEF LDCF (2022-2028).

The project is based on the accumulated experience, the results obtained, and the inter-institutional arrangements established by previous projects linked to clean energy.

Diagram 2: Organigram



The UNDP Resident Representative assumes full responsibility and accountability for oversight and quality assurance of this Project and ensures its timely implementation in compliance with the GEF-specific requirements and UNDP's Programme and Operations Policies and Procedures (POPP), its Financial Regulations and Rules and Internal Control Framework. A representative of the UNDP Country Office will assume the assurance role and will present assurance findings to the Project Board, and therefore attend Project Board meetings as a non-voting member.

Will the GEF Agency play an execution role on this project?

No

If so, please describe that role here and the justification.

Also, please add a short explanation to describe cooperation with ongoing initiatives and projects, including potential for co-location and/or sharing of expertise/staffing (max. 500 words, approximately 1 page)

UNDP CO is coordinating with the ADB mini-grids project with VRDB, as this complement's rural electrification projects and VRDB engagement. Other coordination will occur occasionally and through GoV designated coordination agents. UNDP is moving to an energy portfolio approach in Vanuatu in which development and implementation of energy programming in Vanuatu is closely coordinated, integrated, filling gaps and emphasizing opportunities, and experience from other countries in the region such as on sustainable bonds and FREF in Fiji is transferred to continuously expand energy support for Vanuatu. This new proposed GEF-8 MSP is embedded in UNDP's energy portfolio in Vanuatu and will closely coordinate with other UNDP energy initiatives in the country to support Vanuatu in achieving its NDC target and in accelerating the just energy transition.

## Core Indicators

### Indicator 6 Greenhouse Gas Emissions Mitigated

| Total Target Benefit                                    | (At PIF) | (At CEO Endorsement) | (Achieved at MTR) | (Achieved at TE) |
|---------------------------------------------------------|----------|----------------------|-------------------|------------------|
| <b>Expected metric tons of CO<sub>2</sub>e (direct)</b> | 0        | 1108                 | 0                 | 0                |

|                                                      |   |      |   |   |
|------------------------------------------------------|---|------|---|---|
| Expected metric tons of CO <sub>2</sub> e (indirect) | 0 | 7851 | 0 | 0 |
|------------------------------------------------------|---|------|---|---|

#### Indicator 6.1 Carbon Sequestered or Emissions Avoided in the AFOLU (Agriculture, Forestry and Other Land Use) sector

| Total Target Benefit                                 | (At PIF) | (At CEO Endorsement) | (Achieved at MTR) | (Achieved at TE) |
|------------------------------------------------------|----------|----------------------|-------------------|------------------|
| Expected metric tons of CO <sub>2</sub> e (direct)   |          |                      |                   |                  |
| Expected metric tons of CO <sub>2</sub> e (indirect) |          |                      |                   |                  |
| Anticipated start year of accounting                 |          |                      |                   |                  |
| Duration of accounting                               |          |                      |                   |                  |

#### Indicator 6.2 Emissions Avoided Outside AFOLU (Agriculture, Forestry and Other Land Use) Sector

| Total Target Benefit                                 | (At PIF) | (At CEO Endorsement) | (Achieved at MTR) | (Achieved at TE) |
|------------------------------------------------------|----------|----------------------|-------------------|------------------|
| Expected metric tons of CO <sub>2</sub> e (direct)   |          | 1,108                |                   |                  |
| Expected metric tons of CO <sub>2</sub> e (indirect) |          | 7,851                |                   |                  |
| Anticipated start year of accounting                 |          | 2028                 |                   |                  |
| Duration of accounting                               |          | 20                   |                   |                  |

#### Indicator 6.3 Energy Saved (Use this sub-indicator in addition to the sub-indicator 6.2 if applicable)

| Total Target Benefit     | Energy (MJ) (At PIF) | Energy (MJ) (At CEO Endorsement) | Energy (MJ) (Achieved at MTR) | Energy (MJ) (Achieved at TE) |
|--------------------------|----------------------|----------------------------------|-------------------------------|------------------------------|
| Target Energy Saved (MJ) |                      |                                  |                               |                              |

#### Indicator 6.4 Increase in Installed Renewable Energy Capacity per Technology (Use this sub-indicator in addition to the sub-indicator 6.2 if applicable)

| Technology         | Capacity (MW) (Expected at PIF) | Capacity (MW) (Expected at CEO Endorsement) | Capacity (MW) (Achieved at MTR) | Capacity (MW) (Achieved at TE) |
|--------------------|---------------------------------|---------------------------------------------|---------------------------------|--------------------------------|
| Solar Photovoltaic |                                 | 2.50                                        |                                 |                                |

#### Indicator 11 People benefiting from GEF-financed investments

|        | Number (Expected at PIF) | Number (Expected at CEO Endorsement) | Number (Achieved at MTR) | Number (Achieved at TE) |
|--------|--------------------------|--------------------------------------|--------------------------|-------------------------|
| Female |                          | 19,677                               |                          |                         |
| Male   |                          | 19,968                               |                          |                         |
| Total  | 0                        | 39,645                               | 0                        | 0                       |

Explain the methodological approach and underlying logic to justify target levels for Core and Sub-Indicators (max. 250 words, approximately 1/2 page)

The project aims to achieve significant GHG emission reductions by scaling up NGEF's funding of RE and EE installations across various applications and sectors. Assuming a 20-year lifespan of solar systems, the project is expected to contribute to a cumulative reduction of 8,959 tCO<sub>2</sub>e.

The methodology follows the GEF-8 Results Measurement Framework and assumes diesel generation as the baseline for electricity supply. The project applies the following assumptions:

- one kWh of electricity using diesel requires 0.32 liters of fuel. By deploying solar PV systems, the average annual electricity generated per installation is expected to replace a corresponding amount of diesel-generated electricity. This results in estimated annual diesel savings, which are directly linked to the scale and capacity of the installed systems.
- The associated emission reductions are calculated using a conversion factor of 2.68 kg of CO<sub>2</sub> per liter of diesel saved.

#### Direct emissions:

The project will directly support the installation of a mini-grid (Annex H) and up to 20 1,000 W stand-alone solar home systems under Output 3.4. The solar systems directly supported under this project are assumed to produce annual electricity of 64,568.50 kW-h leading to annual diesel savings of 20,662 liters and thus to 1,108 tCO<sub>2</sub>e direct emission reductions over the lifetime of the assets (20 years).

#### Consequential emissions:

The project will contribute to significant consequential GHG emission reductions from a broader adoption of the outcomes of a GEF project, specifically by enabling the realization NGEF's investment pipeline. NGEF's current catalog of solar systems ranges from 0.15 kW with 2.39 Wh of storage, up to 9 kW with 19,717 Wh storage. For an average midrange 1.5 kW system the characteristics are 6000 Ah at 12V 3,982Wh per day to AC loads.

The success of this scale-up assumes NGEF will secure necessary capital which it is in the process of obtaining from additional donors, including the Green Climate Fund. Therefore, the project attributes substantial consequential emission reductions to the baseline.

| Installed Systems | Number | Avg. Annual kWh/installation | Avg. Wh/day  | Avg. installed capacity in kW | Total installed capacity in kW |
|-------------------|--------|------------------------------|--------------|-------------------------------|--------------------------------|
| Primary School    | 82     | 856.66 2347.00 1.00          | 82.00        |                               |                                |
| Secondary School  | 19     | 3918.28 10735.00             | 5.00 95.00   |                               |                                |
| Cooperatives      | 114    | 2350.60 6440.00 3.30         | 376.20       |                               |                                |
| Council Office    | 11     | 2328.70 6380.00 3.20         | 35.20        |                               |                                |
| Households        | 1,610  | 912.50 2500.00 1.00          | 1610.00      |                               |                                |
| Eco-tourism       | 25     | 12719.52 34848.00            | 10.00 250.00 |                               |                                |
| Water pumping     | 25     | 912.50 2500.00 1.00          | 25.00        |                               |                                |
| Solar Mini Grid   | 1      | 40515.00 111000.00           | 70.00 70.00  |                               |                                |
|                   | 1836   | 2543.00                      |              |                               |                                |

Applying the same assumptions as above, realization of this investment pipeline will generate 39,256 tCo2e over the lifetime (20 years) of the assets. Applying a 20% causality factor, the project is expected to lead to 7,851 tCO2e in consequential GHG emission reductions.

The project is expected to benefit 39,645 individuals across schools, cooperatives, households, and area councils. The gender distribution of beneficiaries was estimated using data from multiple sources. For primary and secondary schools, enrolment rates were applied to calculate the proportion of boys and girls. According to the UNESCO Institute for Statistics (UIS), the net enrolment rate in 2020 was 94.9% for girls and 95.8% for boys in primary schools, while girls surpassed boys in secondary schools with a net enrolment rate of 49.9% compared to 42.8% for boys. These proportions informed the gender breakdown of beneficiaries in the education sector.

|                  | Number Beneficiaries per installation |        |       | Total direct beneficiaries |        |        |        |
|------------------|---------------------------------------|--------|-------|----------------------------|--------|--------|--------|
|                  | Male                                  | Female | Total | Male                       | Female | Total  |        |
| Primary school   | 82                                    | 73     | 67    | 140                        | 5,986  | 5,494  | 11,480 |
| Secondary school | 19                                    | 111    | 119   | 230                        | 2,109  | 2,261  | 4,370  |
| Area councils    | 11                                    | 3      | 2     | 5                          | 33     | 22     | 55     |
| Cooperatives     | 114                                   | 32     | 48    | 80                         | 3,648  | 5,472  | 9,120  |
| Households       | 1,610                                 | 3      | 2     | 5                          | 4,830  | 3,220  | 8,050  |
| Eco-tourism      | 25                                    | 50     | 50    | 100                        | 1,250  | 1,250  | 2,500  |
| Water pumping    | 25                                    | 73     | 67    | 140                        | 1,825  | 1,675  | 3,500  |
| Solar mini grid  | 1                                     | 287    | 283   | 570                        | 287    | 283    | 570    |
|                  | 1,887                                 |        |       | 19,968                     | 19,677 | 39,645 |        |

Note: Installations in cooperatives represent RE/EE for productive uses.

## Key Risks

|         | Rating | Explanation of risk and mitigation measures |
|---------|--------|---------------------------------------------|
| CONTEXT |        |                                             |

|                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Climate                  | Substantial | Vanuatu is highly vulnerable to climate-induced risks such as cyclones, floods, and rising sea levels, which could impact project implementation, particularly in remote areas. To mitigate this, the project will incorporate disaster risk management strategies into the planning and design of infrastructure and align activities with national disaster management frameworks. Contingency plans and resilient infrastructure solutions will be prioritized. Adaptive management triggers will be applied, including: (i) adjustment of implementation timelines following major climate events; (ii) re-prioritization of investments toward affected areas; and (iii) deployment of technical support to restore or adapt systems where required. These measures will ensure flexibility and continuity of project implementation under changing climate conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Environmental and Social | Moderate    | There is a risk of environmental and social risks not being identified or appropriately managed, as well as inconsistencies in approach and reporting. This will be mitigated by applying UNDP SES throughout the project, capacity building, and updating the NGEF PV Manual to strengthen the processes associated with environmental and social risk identification and management. Lenders and vendors may not have sufficiently robust safeguard systems in place to manage environmental and social risks to UNDP standards. This risk will be addressed through enhancing NGEFs own systems in relation to selection and monitoring of vendors, as well as providing capacity building and standardized tools. The project involves the procurement of solar PV, where there is a risk of forced labour in the global supply chains in place. This risk will be mitigated by strengthening NGEF procurement processes to consider supply chain issues, including Commitment Letters on the Ethical Sourcing of Solar Panels' from vendors. There are potential risks related to land ownership, and social acceptance of RE projects in rural areas. Additionally, women and vulnerable groups may face barriers to accessing project benefits. To mitigate this, the project will implement a robust stakeholder engagement strategy and a gender-responsive communications strategy, ensuring inclusive consultations with local communities. Gender and social inclusion will be mainstreamed to safeguard equitable access to project benefits. |
| Political and Governance | Low         | Political instability or changes in government priorities are unlikely to affect the project. The Government of Vanuatu has demonstrated strong commitment to renewable energy and climate goals through the NERM and NDCs. The project will continue to engage closely with government stakeholders and align its activities with national policies to mitigate governance-related risks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

#### INNOVATION

|                          |          |                                                                                                                                                                                                                  |
|--------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Institutional and Policy | Moderate | Institutional capacity constraints within the Ministry of Climate Change (MoCC), NGEF, and other stakeholders pose a risk to effective implementation. MoCC acts as the executing entity responsible for overall |
|--------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              |          | coordination, policy alignment, and stakeholder engagement, while NGEF serves as the operational entity responsible for implementing financing mechanisms and managing RE/EE investments. NGEF currently has 7 staff (Fund Manager, technical (engineers), finance, and administration). To mitigate this, the project includes capacity-building initiatives. UNDP Fiji MCO will work closely with the government, including providing capacity building to improve both technical and financial management capacity, to ensure proper and timely implementation. |
| Technological                | Low      | There is a low probability that introduction of new RE/EE technologies may face initial operational challenges or technical failures in rural or remote areas. To mitigate this, the project will prioritize technologies that are proven in similar contexts, support feasibility studies, and provide technical training to local engineers and vendors to ensure successful deployment and long-term sustainability.                                                                                                                                            |
| Financial and Business Model | Moderate | NGEF's current financial capacity to scale operations is limited and financial management in remote areas is challenging. To mitigate this risk, the project explores additional funding mechanisms, such as green bond issuances and partnerships with financial intermediaries like the Vanuatu Rural Development Bank (VRDB) which have reach into remote areas. These efforts will ensure that the financial model is sustainable and scalable to support RE/EE investments.                                                                                   |

#### EXECUTION

|           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity  | Moderate | Limited technical capacity in key government ministries (MoFEM, MoCC, DoE) and NGEF could delay project execution. To mitigate this, the project includes training programs for government staff and vendors, building their capacity to manage RE/EE investment effectively. The technical assistance provided will focus on improving both human and institutional capacity to support scaling up NGEF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Fiduciary | Moderate | DoE has had positive HACT review and the 2024 HACT Micro Assessment of MOCC fulfills the basic requirements and possesses necessary policies and mechanisms required for project management. To mitigate fiduciary risks the project includes measures to strengthen financial oversight and risk management protocols as part of capacity building efforts. These include: (i) completion of the NGEF diagnostic review and identification of fiduciary gaps (Year 1); (ii) adoption of updated financial management procedures and operational manuals (Year 1–2); (iii) deployment of digital payment and tracking systems to improve transparency and repayment monitoring (Year 2); and (iv) establishment of formal agreements with financial intermediaries to strengthen fund management and collection mechanisms (Year 2–3). Progress against these milestones will be monitored through regular reporting and oversight by UNDP and the Project Steering Committee. |

|                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stakeholder         | Low      | Key stakeholders are engaged and showing active collaboration. There is a risk that exclusion of marginalized groups, such as women and ethnic minorities, from project benefits would undermine the project's inclusivity. To mitigate this risk, a gender action plan and stakeholder engagement strategy will be implemented to ensure equitable access to energy solutions and full participation of all relevant communities in the project. |
| Other               | Low      | Geographic remoteness and logistical challenges in delivering renewable energy solutions to remote islands could lead to delays in realizing expected results. To mitigate this, the project will incorporate bulk procurement and pre-stocking strategies for essential RE equipment in remote areas, ensuring that supply chain delays are minimized.                                                                                           |
| Overall Risk Rating | Moderate | The project faces medium overall risk due to capacity constraints, financial limitations, and climate challenges, but these are mitigated through incorporating targeted capacity-building in the project design. The strong commitment from the GoV to renewable energy goals further reduces the political and governance risks, ensuring alignment with national priorities.                                                                   |

### C. ALIGNMENT WITH GEF-8 PROGRAMMING STRATEGIES AND COUNTRY/REGIONAL PRIORITIES

Explain how the proposed interventions are aligned with GEF- 8 programming strategies and country and regional priorities, including how these country strategies and plans relate to the multilateral environmental agreements.

For projects aiming to generate biodiversity benefits (regardless of what the source of the resources is - i.e., BD, CC or LD), please identify which of the 23 targets of the Kunming-Montreal Global Biodiversity Framework the project contributes to and explain how.

Confirm if any country policies that might contradict with intended outcomes of the project have been identified, and how the project will address this. (max. 500 words, approximately 1 page)

The project is strongly aligned with the **GEF-8 programming strategies**, particularly under its **Climate Change Focal Area, Pillar I**, which seeks to promote energy efficiency, enable decarbonisation of power systems, and scale up zero-emission mobility. The key areas of alignment are as follows:

- **Objective 1.1: Accelerating the efficient use of energy and materials**

The project will support NGEF to finance EE interventions such as refrigeration and air-conditioning for productive uses in agriculture, fisheries, and other key sectors. These EE improvements will help reduce energy consumption while supporting economic growth.

- **Objective 1.2: Enabling the transition to decarbonised power systems**

By scaling up NGEF's capacity to finance solar PV and supporting it to identify new applications as well as potential future RE technologies to invest in such as wind, solar and wind, alongside energy storage solutions, the project aims to transition Vanuatu's power systems away from diesel dependence toward cleaner, more sustainable energy sources.

- **Objective 1.3: Scaling up zero-emission mobility**

The project will facilitate NGEF/GoV to explore options for deploying electric vehicles (EVs) powered by RE, further contributing to zero-emission mobility and reducing GHG emissions in the transport sector.

At the national level, the project is well-aligned with **Vanuatu's National Energy Roadmap (NERM)**, which sets ambitious targets of 100% RE electricity generation and universal energy access by 2030. Currently, only 29% of the population has access to modern energy services, with much of the country relying on imported diesel for electricity. This project is designed to scale Vanuatu's NGEF to provide financing for renewable energy projects, particularly in underserved rural and remote areas, supporting the NERM and NDCs. The project activities also support Vanuatu's recent participation in the **UN 24/7 Carbon-Free Energy (CFE) Compact** and commitment to decarbonisation.

Regionally, the project aligns with the **Pacific Islands Forum Secretariat's regional private sector strategic plan** and the **2050 Blue Pacific Strategy**, which promote resilience and sustainability in Pacific Island communities through clean energy and reduced reliance on fossil fuels. The project supports the **UNDP Multi-Country Programme Document (MCPD) for the Pacific** and the **UN Sustainable Development Cooperation Framework for the Pacific**, both of which prioritize environmental sustainability, sustainable energy access, and the responsible management of natural resources.

Finally, the project contributes to the achievement of multiple **Sustainable Development Goals (SDGs)**, including:

- **SDG 7:** Affordable and clean energy
- **SDG 11:** Sustainable cities and communities
- **SDG 13:** Climate action

#### D. POLICY REQUIREMENTS

##### **Gender Equality and Women's Empowerment:**

We confirm that gender dimensions relevant to the project have been addressed during Project Preparation as per GEF Policy and are clearly articulated in the Project Description (Section B).

Yes

1) Does the project expect to include any gender-responsive-measures to address gender gaps or promote gender equality and women's empowerment?

Yes

If the project expects to include any gender-responsive measures to address gender gaps or promote gender equality and women empowerment, please indicate in which results area(s) the project is expected to contribute to gender equality:

Closing gender gaps in access to and control over natural resources;

Improving women's participation and decision-making; and/or

Yes

Generating socio-economic benefits or services for women.

Yes

2) Does the project's results framework or logical framework include gender-sensitive indicators?

Yes

## Stakeholder Engagement

We confirm that key stakeholders were consulted during Project Preparation as required per GEF policy, their relevant roles to project outcomes has been clearly articulated in the Project Description (Section B) and that a Stakeholder Engagement Plan has been developed before CEO endorsement.

Yes

## Select what role civil society will play in the project:

Consulted only;

Member of Advisory Body; Contractor; Yes

Co-financier;

Member of project steering committee or equivalent decision-making body; Yes

Executor or co-executor;

Other (Please explain)

## Private Sector

Will there be private sector engagement in the project?

Yes

And if so, has its role been described and justified in the section B project description?

Yes

## Environmental and Social Safeguard (ESS) Risks

We confirm that we have provided information regarding Environmental and Social risks associated with the proposed project or program, including risk screenings/ assessments and, if applicable, management plans or other measures to address identified risks and impacts (this information should be presented in Annex E).

Yes

Please provide overall Project/Program Risk Classification

Overall Project/Program Risk Classification

| PIF | CEO Endorsement/Approval | MTR | TE |
|-----|--------------------------|-----|----|
|     | Medium/Moderate          |     |    |

## E. OTHER REQUIREMENTS

### Knowledge management

We confirm that an approach to Knowledge Management and Learning has been clearly described during Project Preparation in the Project Description and that these activities have been budgeted.

Yes

### Benefits

Describe the socioeconomic benefits to be delivered by the project at the national and local levels, as appropriate and these benefits translate in supporting the achievement of global environmental benefits (GEF Trust Fund) or adaptation benefits (LDCF, SCCF). This section identifies the direct beneficiaries from the project.

The project is designed to deliver significant socioeconomic and environmental benefits at both national and local levels, with a strong focus on improving energy access and supporting climate resilience in Vanuatu. By scaling up the NGEF to finance RE/EE technologies, the project will provide clean, affordable energy to over 39,645 new beneficiaries, particularly in remote and rural areas. This expanded access will benefit households, schools, cooperatives and small businesses, directly reducing reliance on costly imported diesel and lowering household energy expenditures, which is critical in regions where energy costs are a significant burden.

A key component of the project is its focus on supporting productive uses of solar energy, particularly for female-led cooperatives engaged in agriculture, fisheries, and small commerce. By providing these cooperatives with reliable electricity, the project empowers women entrepreneurs to increase productivity, expand their operations, and improve income stability. This targeted support aligns with SDG 5 and SDG 7 by promoting gender equality and sustainable energy for all. Women's active participation in decision-making processes throughout further enhances the effectiveness of project implementation, ensuring that local priorities are addressed, and socioeconomic benefits are equitably distributed.

The project also targets off-grid and outer island communities, delivering electricity access to areas that have historically been excluded from conventional energy infrastructure. This access not only improves quality of life but also enables the establishment of essential services such as refrigeration for perishable goods, lighting for extended business hours and learning, and technology adoption for local education. These advancements create a foundation for diversified economic growth, job creation, and improved living standards, particularly benefiting women and marginalised groups who often bear the brunt of energy poverty.

From an environmental perspective, the project will support Vanuatu's climate mitigation targets by contributing to a reduction in greenhouse gas emissions by 1,962.8 tonnes CO<sub>2</sub>e annually by 2030. The shift to renewable energy will decrease the nation's dependence on fossil fuels, thereby strengthening energy security and enhancing resilience to global energy price fluctuations. This initiative aligns with Vanuatu's National Energy Roadmap and NDCs, supporting the nation's long-term transition to a low-carbon, climate-resilient

economy. Together, these socioeconomic and environmental benefits will drive sustainable development in Vanuatu, contributing to both local objectives and global environmental goals.

## ANNEX A: FINANCING TABLES

### GEF Financing Table

Trust Fund Resources Requested by Agency(ies), Country(ies), Focal Area and the Programming of Funds

| GEF Agency                      | Trust Fund | Country/<br>Regional<br>/ Global | Focal Area        | Programm<br>ing<br>of Funds        | Grant /<br>Non-<br>Grant | GEF Project<br>Grant(\$) | Agency<br>Fee(\$)      | Total GEF<br>Financing (\$) |
|---------------------------------|------------|----------------------------------|-------------------|------------------------------------|--------------------------|--------------------------|------------------------|-----------------------------|
| UNDP                            | GET        | Vanuatu                          | Climate<br>Change | CC STAR<br>Allocation<br>: CCM-1-1 | Grant                    | 355,297.00               | 33,753.<br>00          | 389,050.00                  |
| UNDP                            | GET        | Vanuatu                          | Climate<br>Change | CC STAR<br>Allocation<br>: CCM-1-2 | Grant                    | 1,421,189.0<br>0         | 135,011<br>.00         | 1,556,200.00                |
| <b>Total GEF Resources (\$)</b> |            |                                  |                   |                                    |                          | <b>1,776,486.0<br/>0</b> | <b>168,764<br/>.00</b> | <b>1,945,250.00</b>         |

### Project Preparation Grant (PPG)

Is Project Preparation Grant requested?

true

PPG Amount (\$)

50000

PPG Agency Fee (\$)

4750

| GEF Agency | Trust Fund | Country/<br>Regional<br>/ Global | Focal Area        | Programming<br>of Funds           | PPG(\$)   | Agency<br>Fee(\$) | Total PPG Funding(\$) |
|------------|------------|----------------------------------|-------------------|-----------------------------------|-----------|-------------------|-----------------------|
| UNDP       | GET        | Vanuatu                          | Climate<br>Change | CC STAR<br>Allocation:<br>CCM-1-1 | 10,000.00 | 950.00            | 10,950.00             |

|                              |     |         |                |                             |                  |                 |                  |
|------------------------------|-----|---------|----------------|-----------------------------|------------------|-----------------|------------------|
| UNDP                         | GET | Vanuatu | Climate Change | CC STAR Allocation: CCM-1-2 | 40,000.00        | 3,800.00        | 43,800.00        |
| <b>Total PPG Amount (\$)</b> |     |         |                |                             | <b>50,000.00</b> | <b>4,750.00</b> | <b>54,750.00</b> |

Please provide justification

### Sources of Funds for Country Star Allocation

| GEF Agency                      | Trust Fund | Country/<br>Regional/ Global | Focal Area     | Sources of Funds   | Total(\$)           |
|---------------------------------|------------|------------------------------|----------------|--------------------|---------------------|
| UNDP                            | GET        | Vanuatu                      | Biodiversity   | BD STAR Allocation | 1,000,000.00        |
| UNDP                            | GET        | Vanuatu                      | Climate Change | CC STAR Allocation | 1,000,000.00        |
| <b>Total GEF Resources (\$)</b> |            |                              |                |                    | <b>2,000,000.00</b> |

### Focal Area Elements

| Programming Directions         | Trust Fund | GEF Project Financing(\$) | Co-financing(\$)    |
|--------------------------------|------------|---------------------------|---------------------|
| CCM-1-1                        | GET        | 355,297.00                | 1,000,000.00        |
| CCM-1-2                        | GET        | 1,421,189.00              | 8,000,000.00        |
| <b>Total Project Cost (\$)</b> |            | <b>1,776,486.00</b>       | <b>9,000,000.00</b> |

### Confirmed Co-financing for the project, by name and type

Please include evidence for each co-financing source for this project in the tab of the portal

| Sources of Co-financing      | Name of Co-financier       | Type of Co-financing | Investment Mobilized   | Amount(\$)   |
|------------------------------|----------------------------|----------------------|------------------------|--------------|
| Recipient Country Government | Ministry of Climate Change | In-kind              | Recurrent expenditures | 3,000,000.00 |
| Recipient Country Government | Ministry of Climate Change | Loans                | Investment mobilized   | 5,000,000.00 |

|                                |                            |       |                      |                     |
|--------------------------------|----------------------------|-------|----------------------|---------------------|
| Recipient Country Government   | Ministry of Climate Change | Grant | Investment mobilized | 1,000,000.00        |
| <b>Total Co-financing (\$)</b> |                            |       |                      | <b>9,000,000.00</b> |

Please describe the investment mobilized portion of the co-financing

USD 6 million of anticipated investment pipeline expected to be delivered through a strengthened NGEF in line with the scope and direct financing of the project. This amount will consist of grants and concessional lending in line with building and expanding NGEF's investment pipeline, enabling the fund to identify, prepare, and implement high-quality projects that benefit households, communities, and local enterprises.

## ANNEX B: ENDORSEMENTS

### GEF Agency(ies) Certification

| GEF Agency Type        | Date     | Project Contact Person | Phone        | Email                        |
|------------------------|----------|------------------------|--------------|------------------------------|
| GEF Agency Coordinator | 7/3/2025 | Nancy Bennet           | 1917774657   | nancy.bennet@undp.org        |
| Project Coordinator    | 7/3/2025 | Sergio Quiros Navas    | 639695269056 | sergio.quiros.navas@undp.org |

### Record of Endorsement of GEF Operational Focal Point (s) on Behalf of the Government(s):

| Name of GEF OFP | Position         | Ministry                   | Date (Month, day, year) |
|-----------------|------------------|----------------------------|-------------------------|
| David Gibson    | Director General | Ministry of Climate Change | 12/1/2025               |

## ANNEX C: PROJECT RESULTS FRAMEWORK

Please indicate the page number in the Project Document where the project results and M&E frameworks can be found. Please also paste below the Project Results Framework from the Agency document.

**Contribution to the Sustainable Development Goal (s): 7, 11, 13**

**Intended Outcome as stated in the Multi-Country Programme Document for the Pacific: Outcome #1 Planet:** UNDP will support countries and territories in the Pacific in addressing energy security challenge by collaborating with governments and partners to formulate policies and instruments that facilitate the application of low-carbon renewable energy and energy-efficiency technologies and measures. Initiatives

will include sustainable transport; training of local experts in design, engineering, and installation; and financial incentives to stimulate the adoption of renewable energy and energy-efficiency technologies. UNDP will pursue strategies to ensure that energy access and technology address the needs and preferences of women, particularly in vulnerable households.

**Applicable Output(s) from the UNDP Strategic Plan:** A.1.1.5, A.4.2.4, A.4.2.5, B.2.1.1e

**Project title and Quantum Project Number:**

| Objective and Outcome Indicators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Data Source | Baseline | Mid-term Target | End of Project Target | Data Collection Methods | Risks/Assumptions |
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|                                                                                                                                                                                                          |                                                                               |                    |         |        |                                                           |                                                                                         |                                                                                                                                                                                                                                             |
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|                                                                                                                                                                                                          |                                                                               |                    |         |        | from a broader adoption of the outcomes of a GEF project. |                                                                                         |                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                          | Indicator 3: Increase in installed RE capacity financed by NGEF               | NGEF documentation | 0 kW    | 711 kW | 2543 KW                                                   | Based on NGEF records of number of installed RE projects and type/size of installations |                                                                                                                                                                                                                                             |
| <b>Project component 1</b>                                                                                                                                                                               | <b>Institutional Support and Capacity Building (MoFEM and MoCC/ DoE/NGEF)</b> |                    |         |        |                                                           |                                                                                         |                                                                                                                                                                                                                                             |
| <b>Outcome 1: Improved strategic conditions, technical capacity, and operating efficiencies for NGEF to attract increased and diversified funding base and increase its RE/EE investment throughput.</b> | Indicator 4: number of installed systems                                      | NGEF documentation | 225     | 537    | 1887                                                      | Direct data measurement using the project methodologies and protocols.                  | Full and continuous commitment and support of government in the enhancement, approval and implementation of policies, strategies, plans, and tools. Needs and motivation to attend capacity building programs to develop skills remain high |
|                                                                                                                                                                                                          | Indicator 5: Average reduction in NGEF underwriting time (%)                  |                    | 4 weeks | 20%    | 50%                                                       |                                                                                         |                                                                                                                                                                                                                                             |
| <b>Outputs to achieve Outcome 1</b>                                                                                                                                                                      | <ul style="list-style-type: none"> <li></li> <li></li> </ul>                  |                    |         |        |                                                           |                                                                                         |                                                                                                                                                                                                                                             |

|                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |           |           |           |                                                                               |                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|-----------|-----------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                       | <ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>• Output: 1.1: Completed NGEF diagnostic review to improve operating processes, policies, systems, gender inclusiveness, credit risk and identifying pathways to attract and deliver international climate finance.</li> <li>• Output 1.2: Updated NGEF operations manual and operating policies to streamline decision making and accommodate a wider range of RE/EE applications that are inclusive and gender-responsive.</li> <li>• Output 1.3: Adoption of digital tools to improve NGEF's transaction efficiency and gender inclusion.</li> <li>• Output 1.4: Support in engaging with financial intermediaries to improve NGEF's reach and efficiency.</li> <li>• Output 1.5: Completed capacity development programs for MoFEM and MoCC/ DoE/NGEF on RE/EE technologies and finance requirements.</li> </ul> |                              |           |           |           |                                                                               |                                                                                                                                           |
| <b>Project component 2</b>                                                                                                            | <b>Demand-side assistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |           |           |           |                                                                               |                                                                                                                                           |
| <b>Outcome 2: Increased public awareness of NGEF's RE/EE financing products and improved inclusive RE/EE investment opportunities</b> | <i>Indicator 6: dollar value of project pipeline in RE for productive uses</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>NGEF documentation</i>    | USD 3.2 M | USD 2.5 M | USD 8.8 M | <i>Direct data measurement using the project methodologies and protocols.</i> | <i>Stakeholders will apply training and guidance received to their daily work to facilitate the adoption of new financing instrument.</i> |
|                                                                                                                                       | <i>Indicator 7: number of financial instruments developed</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <i>Project documentation</i> | 0         | 0         | 1         |                                                                               |                                                                                                                                           |
|                                                                                                                                       | <i>Indicator 8: number of new applicants for NGEF finance</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <i>NGEF documentation</i>    | 150       | 400       | 1000      | <i>Direct data measurement using the project methodologies</i>                | <i>Gender participation and gender mainstreaming will materialize</i>                                                                     |

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |   |    |     |                                                                                                |                             |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|----|-----|------------------------------------------------------------------------------------------------|-----------------------------|
| tailored to consumer needs   | Indicator 9: number of female-led initiatives successful through application process                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NGEF documentation | 4 | 20 | 100 | es and protocols. Surveys administered to relevant stakeholders during project implementation. | to support gender equality. |
| Outputs to achieve Outcome 2 | <ul style="list-style-type: none"> <li>•</li> <li>• Output 2.1.2: Investment plan covering technology packages for productive uses, including for women and marginalized communities.</li> <li>• Output 2.1: Expanded demand-side market study to identify a wider beneficiary group and RE/EE technologies including for productive uses and domestic appliances</li> <li>• Output 2.2: Conducted feasibility studies on technology packages for productive uses and domestic appliances, including for women and marginalized communities</li> <li>• Output 2.3 Inclusive finance instruments designed</li> <li>• Output 2.4: Inclusive and widespread marketing and awareness campaigns on RE/EE products under NGEF financing programs</li> <li>• Output 2.5: Established hand-holding support mechanisms to women-led initiatives for applying for NGEF funds for RE applications</li> <li>•</li> </ul> |                    |   |    |     |                                                                                                |                             |
|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |   |    |     |                                                                                                |                             |
|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |   |    |     |                                                                                                |                             |
|                              | <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |   |    |     |                                                                                                |                             |
| Project component 3          | Improving conditions for the supply of RE/EE technologies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |   |    |     |                                                                                                |                             |

|                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |   |   |   |                                                                               |                                                                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---|---|---|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Outcome 3: Improved supply conditions for NGEF to expand RE/EE investments across Vanuatu</b> | Indicator 10: number of vendors pre-approved by NGEF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <i>NGEF documentation</i>    | 5 | 6 | 8 | <i>Direct data measurement using the project methodologies and protocols.</i> | <i>Needs and motivation to attend capacity building programs to develop skills remain high.</i><br><br><i>High private sector vendor stakeholder engagement to provide transparency on their needs and participate in pilots.</i> |
|                                                                                                  | Indicator 11: number of demonstration s completed for scaling-up RE applications through NGEF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <i>Project documentation</i> | 0 | 0 | 1 |                                                                               |                                                                                                                                                                                                                                   |
| <b>Outputs to achieve Outcome 3.</b>                                                             | <ul style="list-style-type: none"> <li></li> <li></li> <li></li> <li>Output 3.1: Completed technical development programs for NGEF engineers and local suppliers to support the expansion of RE/EE applications across the country</li> <li>Output 3.2: Updated and diversified finance and technology products supported by an expanded base of pre-approved technology providers</li> <li>Output 3.3: Completed supply-side study to identify vendor weaknesses and opportunities for supply chain improvements, for both men and women</li> <li>Output 3.4: Innovative blended finance model for rural electrification tested</li> <li>Output 3.5: Regional collaboration enhanced to address cross-regional barriers including high logistic costs and remoteness through pooled procurement, shared standards, and applied knowledge products</li> </ul> |                              |   |   |   |                                                                               |                                                                                                                                                                                                                                   |
| <b>Project component</b>                                                                         | <b>Monitoring &amp; Evaluation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |   |   |   |                                                                               |                                                                                                                                                                                                                                   |
| <b>Outcome 4</b>                                                                                 | Indicator 12: Number of TE completed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <i>Project documentation</i> | 0 | 1 | 1 | <i>Direct data measurement using the</i>                                      |                                                                                                                                                                                                                                   |

|                                                       |                                                                                                                                                                                                                                                                                                                          |                              |   |   |   |                                             |  |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---|---|---|---------------------------------------------|--|
| <b>Project is effectively monitored and evaluated</b> | Indicator 13: Implementation of MTR recommendations                                                                                                                                                                                                                                                                      | <i>Project documentation</i> | 0 | 0 | 1 | <i>project methodologies and protocols.</i> |  |
| <b>Outputs to achieve Outcome 4</b>                   | <ul style="list-style-type: none"> <li>Tracking of project progress and project outcomes are monitored regularly</li> <li>Timely evaluations of the project to identify success, gaps or challenges in meeting the outcomes and enable adaptive management</li> <li>Finalize and monitor a gender action plan</li> </ul> |                              |   |   |   |                                             |  |

#### ANNEX D: STATUS OF UTILIZATION OF PROJECT PREPARATION GRANT (PPG)

Provide detailed funding amount of the PPG activities financing status in the table below:

| Project Preparation Activities Implemented                                                                      | GETF/LDCF/SCCF Amount (\$) |                      |                  |
|-----------------------------------------------------------------------------------------------------------------|----------------------------|----------------------|------------------|
|                                                                                                                 | Budgeted Amount            | Amount Spent To date | Amount Committed |
| International consultant to carry out initial scoping, drafting of the baseline, project brief and case studies | 24,000.00                  | 24,000.00            | 0.00             |
| International consultant to prepare Gender Analysis and Action Plan with detailed budget                        | 20,000.00                  | 20,000.00            | 0.00             |
| International consultant to assess and identify potential environmental and social risks                        | 21,250.00                  | 21,250.00            | 0.00             |
| International consultant to finalize and validate project documentation                                         | 12,500.00                  | 10,000.00            | 2,500.00         |
| Local consultant to provide national technical support for the formulation of the project proposal              | 4,975.00                   | 4,975.00             | 0.00             |
| Travel to Vanuatu for consultation and validation meetings                                                      | 11,169.00                  | 11,169.00            | 0.00             |
| <b>Total</b>                                                                                                    | <b>93,894.00</b>           | <b>91,394.00</b>     | <b>2,500.00</b>  |

## ANNEX E: PROJECT MAP AND COORDINATES

Please provide geo-referenced information and map where the project interventions will take place

| Location Name | Latitude | Longitude  | GeoName ID |
|---------------|----------|------------|------------|
| Port Vila     | -17.7364 | 168.313611 |            |

Location Description:

Capital of Vanuatu where main implementing partners and activity beneficiaries (Ministries, NGEF) are located

Activity Description:

Implementation of activities under component 1, 2 and parts of 3.

| Location Name    | Latitude   | Longitude | GeoName ID |
|------------------|------------|-----------|------------|
| Antap settlement | -20.233194 | 169.77769 |            |

Location Description:

Antap settlement, in the province of Tafea

Activity Description:

Mini-grid demonstration investment (Component 3)

Please provide any further geo-referenced information and map where project interventions are taking place as appropriate.



## ANNEX F: ENVIRONMENTAL AND SOCIAL SAFEGUARDS SCREEN AND RATING

Attach agency safeguard screening/assessment report(s), including ratings of risk types and overall project/program risk classification as well as any management plans or measures to address identified risks and impacts.

Title

SESP

Stakeholder

Gender

ESMF

## ANNEX G: BUDGET TABLE

Please explain any aspects of the budget as needed here

As attached.

Annex 01: GEF Budget Table

| Expenditure Category            | Detailed Description                                                                                                                                                          | Component 1 | Component 2 | Component 3 | M&E | PMC        | Total      | Executing Entity |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-----|------------|------------|------------------|
| Grants                          | Capital subsidies for rural-minigrid and stand-alone solar home systems for a rural electrification pilot in a remote community. The implementation will follow UNDP policies |             |             | 360,000.00  |     |            | 360,000.00 | MoCC             |
| <b>Grants Total</b>             |                                                                                                                                                                               | -           | -           | 360,000.00  | -   | -          | 360,000.00 |                  |
| Contractual services-Individual | Project Manager                                                                                                                                                               | 42,117.00   | 42,117.00   | 50,541.00   |     | 34,092.00  | 168,867.00 | MoCC             |
| Contractual services-Individual | Finance Specialist                                                                                                                                                            | -           | -           | -           |     | 112,944.00 | 112,944.00 | MoCC             |
| Contractual services-Individual | Local consultant to support development and lead implementation of inclusive and widespread marketing and awareness campaigns on RE/EE products under NGEF financing programs |             | 15,000.00   |             |     |            | 15,000.00  | MoCC             |
| Contractual services-Individual | Local consultant to establish support mechanisms for women-                                                                                                                   |             | 15,000.00   |             |     |            | 15,000.00  | MoCC             |

|                                              |                                                                                                                   |           |            |           |           |            |            |      |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------|------------|-----------|-----------|------------|------------|------|
|                                              | led initiatives who apply for NGEF funds for RE applications.                                                     |           |            |           |           |            |            |      |
| Contractual services-Individual              | International consultant to support the preparation of inclusive and widespread awareness campaign                |           | 40,000.00  |           |           |            | 40,000.00  | MoCC |
| Contractual services-Individual              | International consultant for preparation and support facilitation of technical training                           |           |            | 40,000.00 |           |            | 40,000.00  | MoCC |
| Contractual services-Individual              | International M&E expert to review project indicators                                                             |           |            |           | 10,000.00 |            | 10,000.00  | MoCC |
| Contractual services-Individual              | International M&E expert to undertake terminal evaluation                                                         |           |            |           | 60,000.00 |            | 60,000.00  | UNDP |
| <b>Contractual services-Individual Total</b> |                                                                                                                   | 42,117.00 | 112,117.00 | 90,541.00 | 70,000.00 | 147,036.00 | 461,811.00 |      |
| Contractual services-Company                 | Complete diagnostic review of NGEF                                                                                | 80,000.00 |            |           |           |            | 80,000.00  | MoCC |
| Contractual services-Company                 | Design capacity development programs for MoFEM and MoCC/ DoE/NGEF on RE/EE technologies and finance requirements. | 55,000.00 |            |           |           |            | 55,000.00  | MoCC |
| Contractual services-Company                 | Provide technical assistance, institutional support and capacity building to MoFEM and MoCC/ DoE/NGEF             | 75,000.00 |            |           |           |            | 75,000.00  | MoCC |
| Contractual services-Company                 | One sub-contract to expand                                                                                        |           | 215,000.00 |           |           |            | 215,000.00 | MoCC |

|                                           |                                                                                                                                                                                                                                                                                     |            |            |            |   |   |                   |      |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|---|---|-------------------|------|
|                                           | demand-side market study/statistical report, prepare investment plan covering technology packages for productive uses, including for women and marginalized communities, design of inclusive finance instruments and the preparation of inclusive and widespread awareness campaign |            |            |            |   |   |                   |      |
| Contractual services-Company              | One sub-contract to conduct needs assessment with vendors and installers, consult with technology providers to establish standard packages of RE/EE, conduct feasibility studies for new technologies, and design of tender and PBP mechanism                                       |            |            | 285,000.00 |   |   | 285,000.00        | MoCC |
| <b>Contractual services-Company Total</b> |                                                                                                                                                                                                                                                                                     | 210,000.00 | 215,000.00 | 285,000.00 | - | - | <b>710,000.00</b> |      |
| Training, Workshops, Meetings             | Meeting 1 to negotiate and establish agreements between NGEF and financial intermediaries                                                                                                                                                                                           | 12,500.00  |            |            |   |   | 12,500.00         | MoCC |

|                               |                                                                                                                                                                                                                                    |           |          |  |  |  |           |      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|--|--|--|-----------|------|
| Training, Workshops, Meetings | Meeting 2 to negotiate and establish agreements between NGEF and financial intermediaries,                                                                                                                                         | 12,500.00 |          |  |  |  | 12,500.00 | MoCC |
| Training, Workshops, Meetings | Training workshop to update NGEF operations manual and operating policies to streamline decision making and accommodate a wider range of RE/EE applications that are inclusive and gender responsive,                              | 12,500.00 |          |  |  |  | 12,500.00 | MoCC |
| Training, Workshops, Meetings | Training workshop to adopt digital tools to improve NGEF's transaction efficiency and gender inclusion.                                                                                                                            | 12,500.00 |          |  |  |  | 12,500.00 | MoCC |
| Training, Workshops, Meetings | Training/meeting No 1 on inclusive and widespread marketing and awareness campaigns on RE/EE products under NGEF financing programs and support mechanisms for women-led initiatives who apply for NGEF funds for RE applications. |           | 5,000.00 |  |  |  | 5,000.00  | MoCC |
| Training, Workshops, Meetings | Training/meeting No 2 on                                                                                                                                                                                                           |           | 5,000.00 |  |  |  | 5,000.00  | MoCC |

|                               |                                                                                                                                                                                                                                    |  |          |  |  |  |          |      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--|--|--|----------|------|
|                               | inclusive and widespread marketing and awareness campaigns on RE/EE products under NGEF financing programs and support mechanisms for women-led initiatives who apply for NGEF funds for RE applications.                          |  |          |  |  |  |          |      |
| Training, Workshops, Meetings | Training/meeting No 3 on inclusive and widespread marketing and awareness campaigns on RE/EE products under NGEF financing programs and support mechanisms for women-led initiatives who apply for NGEF funds for RE applications. |  | 5,000.00 |  |  |  | 5,000.00 | MoCC |
| Training, Workshops, Meetings | Training/meeting No 4 on inclusive and widespread marketing and awareness campaigns on RE/EE products under NGEF financing programs and support mechanisms for women-led initiatives who apply for NGEF funds for RE applications. |  | 5,000.00 |  |  |  | 5,000.00 | MoCC |

|                                            |                                                                                                                                                 |           |           |           |   |   |            |      |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|---|---|------------|------|
| Training, Workshops, Meetings              | Two technical trainings in year 1 for local vendors and NGEF engineers on high-quality pre-investment studies, energy audits and system design. |           |           | 20,000.00 |   |   | 20,000.00  | MoCC |
| Training, Workshops, Meetings              | Two technical trainings in year 2 for local vendors and NGEF engineers on high-quality pre-investment studies, energy audits and system design. |           |           | 20,000.00 |   |   | 20,000.00  | MoCC |
| Training, Workshops, Meetings              | Two technical trainings in year 3 for local vendors and NGEF engineers on high-quality pre-investment studies, energy audits and system design. |           |           | 20,000.00 |   |   | 20,000.00  | MoCC |
| Training, Workshops, Meetings              | Two technical trainings in year 4 for local vendors and NGEF engineers on high-quality pre-investment studies, energy audits and system design. |           |           | 20,000.00 |   |   | 20,000.00  | MoCC |
| <b>Training, Workshops, Meetings Total</b> |                                                                                                                                                 | 50,000.00 | 20,000.00 | 80,000.00 | - | - | 150,000.00 |      |
| Travel                                     | Costs for travel of project staff and project participants to attend trainings,                                                                 | 25,000.00 | 25,000.00 | 25,000.00 |   |   | 75,000.00  | MoCC |

|                                    |                                                                                                                                                                      |                   |                   |                   |                  |                   |                     |      |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|------------------|-------------------|---------------------|------|
|                                    | meetings, and relevant events.                                                                                                                                       |                   |                   |                   |                  |                   |                     |      |
| <b>Travel Total</b>                |                                                                                                                                                                      | 25,000.00         | 25,000.00         | 25,000.00         | -                | -                 | <b>75,000.00</b>    |      |
| Other Operating Costs              | Audio Visual & Print Product Costs for printing and publications, promotional materials, and other media costs                                                       |                   |                   |                   | 6,000.00         |                   | <b>6,000.00</b>     | MoCC |
| Other Operating Costs              | Office rent, utilities, cleaning & security, supplies, communication costs (Internet & telephones), office equipment maintenance costs, furniture and ICT equipment. |                   |                   |                   |                  | 3,675.00          | <b>3,675.00</b>     | MoCC |
| Other Operating Costs              | Audit cost                                                                                                                                                           |                   |                   |                   |                  | 10,000.00         | <b>10,000.00</b>    | UNDP |
| <b>Other Operating Costs Total</b> |                                                                                                                                                                      | -                 | -                 | -                 | 6,000.00         | 13,675.00         | <b>19,675.00</b>    |      |
| <b>Grand Total</b>                 |                                                                                                                                                                      | <b>327,117.00</b> | <b>372,117.00</b> | <b>840,541.00</b> | <b>76,000.00</b> | <b>160,711.00</b> | <b>1,776,486.00</b> |      |