

**United Nations Development Programme**  
**Country: Papua New Guinea**  
**2019 Annual Work Plan**

**Project Title:** Facilitating Renewable Energy and Energy Efficiency Applications for Greenhouse Gas Emission Reduction (FREAGER)

**UNDAF/CP Outcome(s):** By 2015, Government and civil society have enhanced their capacity to implement biodiversity conservation, low carbon and climate resilient development initiatives for environmental sustainability and improved community livelihoods to reduce the vulnerability of women, girls, men and boys to disaster risks

**Expected Output(s):** Institutional Capacity Building for Sustainable Natural Resource Management (NRM) and Biodiversity Conservation: *Relevant GoPNG institutions at the national and provincial level the capacity to effectively plan, develop, implement and monitor policies and regulatory frameworks that promote the sustainable use of natural resources and biodiversity conservation*".

*(Those that will result from the project)*

**Executing Agencies:** United Nations Development Programme

**Implementing Partner:** Climate Change Development Authority

**Brief Description**

The United Nations Development Programme (UNDP), acting as an implementing agency of the Global Environment Facility (GEF), is providing assistance to the Government of Papua New Guinea's (GoPNG) Climate Change Development Authority (CCDA) to implement GEF Full Size Project (FSP) titled *Facilitating Renewable Energy and Energy Efficiency Applications for Greenhouse Gas Emission Reduction (FREAGER)*." The main objective of the project is to enable the application of feasible renewable energy and energy efficiency technologies (to achieve greenhouse gas emission reduction in PNG). To achieve this goal, the project will assist the GoPNG in four key areas: i) Energy policy, planning and institutional development - improve development, enforcement and implementation of national and provincial energy policies, plans, and standards to promote the application of renewable energy and energy efficiency technologies; ii) Renewable Energy and Energy Efficiency Technologies Applications – pilot demonstration of small-scale technical-commercial viability and capacity on application of energy efficiency technologies and development of feasible renewable energy systems in PNG; iii) Financing of Renewable Energy and Energy Efficiency – improve availability of, and access to, financing for renewable energy and energy efficiency initiatives in the energy generation and end-use sectors; and iv) Energy Development and Awareness Enhancement - improve awareness of, and information about renewable energy and energy efficiency applications in the energy generation and end-use sectors, aiming towards behavioural change.

**Programme Period:** 2012-2017

**Key Result Area (Strategic Plan):** Environment, Climate Change and Disaster Risk Management

**Atlas Award ID:** 00094483

**Atlas Project ID:** 00098601

**Start date:** 1 June 2017

**End Date:** 31 May 2021

**PAC Meeting Date:** 1 December 2016

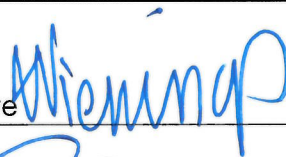
**Management Arrangements:** NIM

Total resources allocated: USD 800,633

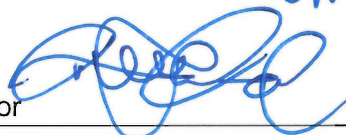
Allocated resources:

- GEF: USD800,633

Agreed by (UNDP): Tracy Vienings, Deputy Resident Representative



Agreed by (CCDA): Ruel Yamuna, Managing Director



## I. ANNUAL WORK PLAN

EXPECTED OUTPUTS <i>And baseline, indicators including annual targets</i>	PLANNED ACTIVITIES <i>List activity results and associated actions</i>	TIMEFRAME				RESPONSIBLE PARTY	Funding Source	PLANNED BUDGET				
		Q1	Q2	Q3	Q4			Account	Budget Description	Amount (USD)		
<b>Output<sup>1</sup>:</b> Facilitate Renewable Energy & Energy Efficiency Applications for Greenhouse Gas Emission Reduction (FREAGER)  <b>Baseline<sup>2</sup>:</b> 0  <b>Indicators<sup>3</sup>:</b> Number of areas in which newly adopted policies and standards (since project launch) promote renewable energy and energy efficiency  <b>Targets<sup>4</sup>:</b> 4 Recommended policy options for renewable energy and energy efficiency	<b>Activity Result 1<sup>5</sup> (Outcome 1) Component 1:</b> Energy Policy, Planning and Institutional Development  <b>Activity<sup>6</sup> (Output1.2):</b> Review of energy policy, legislations and regulations to promote renewable energy and energy efficiency technologies in PNG  <b>Action<sup>7</sup> (Activities):</b> <ul style="list-style-type: none"> <li>Preparation of relevant proposed policies to promote RE in PNG. (Activities 1.2.2 and 1.2.4)</li> <li>Preparation of relevant proposed policies to promote EE in PNG. (Activities 1.2.5)</li> </ul>											
			x	x	x					61300	International FTA – IP Staff	60,000
										62300	Recurrent Payroll-IP Staff	22,000
										63300	Non-Recurrent Payroll – IP Staff	8,000
										63500	Insurance and Security Costs – IP Staff	10,000
										64300	Staff Management Cost – IP Staff	900
			x							65100	After Service Insurance – IP Staff	7000
						UNDP, CCDA				71200	International Consultant	10,000
										71300	Local consultant	25,800
										74200	Printing & Publication	5,000
										75700	Training & Workshop	52,495

<sup>1</sup> Output name under column 1 is the project name from the Prodoc.

<sup>2</sup> Baseline is from the Prodoc.

<sup>3</sup> Indicator is from the Prodoc.

<sup>4</sup> Target is from the Prodoc.

<sup>5</sup> Under Column 2, Activity result is the outcome statement in short from the project logframe

<sup>6</sup> Under column 2, Activity is the output statement in short from the project logframe.

<sup>7</sup> Under Column 2, Actions is the actual activities in short for each outputs as per Prodoc detailed activities.

	<ul style="list-style-type: none"> <li>Prepare capacity building materials for design and development of RE &amp; EE technology projects (Activities 1.1.1 – 1.1.4)</li> <li>Prepare guidance on refinement of national building EE standards (Activities)</li> <li>Prepare guidance on relevant regulations to promote RE&amp;EE technologies (1.2.1)</li> </ul>									201,195
<b>SUB TOTAL Activity Result 1</b>										
<p><b>Output :</b> Facilitate Renewable Energy &amp; Energy Efficiency Applications for Greenhouse Gas Emission Reduction (FREAGER)</p> <p><b>Baseline:</b> 0</p> <p><b>Indicators:</b> Number of cases of high-quality renewable energy mini-grid systems and energy efficiency systems achieved at low end international costs benchmarks.</p>	<p><b>Activity Result 2:</b> Application of Renewable Energy and Energy Efficiency Technologies (Component 2)</p> <p><b>Activity:</b> Development of, Curriculum, Standards and Technical guidelines for Renewable Energy and Energy Efficiency in Papua New Guinea (Output 2A.1)</p> <p><b>Action:</b></p>		x	x	x	UNDP, CDDA	GEF		<p>71200 International Consultant 40,000</p> <p>71300 Local Consultant 25,000</p> <p>71400 Contractual Services-Individual 14,000</p> <p>71600 Travel 10,000</p> <p>72100 Contractual Services - Company 50,000</p> <p>72200 Equipment &amp; Furniture 324,000</p> <p>74200 Printing &amp; Publications 750</p> <p>75700 Training/Workshops 26,938</p>	

<p><b>Targets: 3</b></p> <ul style="list-style-type: none"> <li>• 1x Demonstration of solar PV mini-grid systems</li> <li>• 2x Demonstration of micro/mini hydro grid</li> </ul>	<ul style="list-style-type: none"> <li>• Analysis of technical capacity for costing, sourcing and technical aspects of implementing solar PV mini-grid systems (2A.1.1)</li> <li>• Analysis of technical capacity for costing, sourcing and technical aspects of implementing micro and/or mini-hydro grid systems (2A.1.2)</li> <li>• Design Pilot of solar PV mini-grid systems (2B.2.1)</li> <li>• Design Pilot of micro / mini hydro grid (2B.2.1)</li> <li>• Audit and Design of Pilot EE projects</li> <li>• Preparation of training curriculum for RE mini-grids (2A.4.3)</li> <li>• Preparation of training curriculum for EE (2A.4.3)</li> <li>• Conduct capacity needs assessment for provision of planning, technical and marketing support 3 pilot sites.</li> </ul>																	
<p><b>SUB TOTAL Activity Result 2</b></p>															<p><b>490,688</b></p>			

<p><b>Output :</b> Facilitate Renewable Energy &amp; Energy Efficiency Applications for Greenhouse Gas Emission Reduction (FREAGER)</p> <p><b>Baseline:</b> 0</p> <p><b>Indicators:</b> Amount of approved financing available for community RE mini-grid projects in PNG, except governmental funding</p> <p><b>Targets:</b> 0</p> <p>Provision of reference guide to initiate conversation with financial institutions</p>	<p><b>Activity Result 3:</b> Financing for Renewable Energy and Energy Efficiency Projects (Component 3)</p> <p><b>Activity:</b> Provide information on sources and how-to-apply guide on effectively accessing funds for RE &amp; EE (Output 3.4)</p> <p><b>Action:</b></p> <ul style="list-style-type: none"> <li>Conduct research and prepare reference guide on funding sources on RE &amp; EE (3.4.1)</li> <li>Initiate discussion with financial institutions on the establishment of loan facilities for community RE mini-grids. (3.3.1)</li> </ul>	<p>71300</p> <p>71600</p> <p>74200</p>	<p>Local Consultant</p> <p>Travel</p> <p>Audio Visual &amp; Print</p>	<p>13,500</p> <p>10,000</p> <p>150</p>	
<p><b>SUB TOTAL Activity Result 3</b></p>					<p><b>23,650</b></p>
<p><b>Output:</b> Facilitate Renewable Energy &amp; Energy Efficiency Applications for Greenhouse Gas Emission Reduction (FREAGER)</p> <p><b>Baseline:</b></p> <p><b>Indicators:</b></p> <p><b>Targets:</b></p>	<p><b>Activity Result 4:</b> Enhance Awareness on Energy Development (Component 4)</p> <p><b>Activity:</b> Database on RE resources and pipeline RE projects (Output 4.3)</p> <p><b>Action:</b></p> <ul style="list-style-type: none"> <li>Identify and aggregate PNG RE resource data (4.3.4)</li> <li>Design a one-stop-shop information base for RE &amp; EE in PNG (4.7.1)</li> </ul>	<p>71300</p> <p>72100</p> <p>72400</p> <p>74200</p>	<p>Local consultant</p> <p>Contractual Services- Companies</p> <p>Communications and Audio-Visual Equipment</p> <p>Printing and Publications</p>	<p>15,000</p> <p>15,000</p> <p>6,000</p> <p>750</p>	
<p><b>SUB TOTAL Activity Result 4</b></p>					<p><b>36,750</b></p>

Output 1: Facilitate Renewable Energy & Energy Efficiency Applications for Greenhouse Gas Emission Reduction (FREAGER)							International Consultant	14,000
Activity Result 5: Project Management Unit							Travel	9,050
Activity: Carry out Project Management and Coordination work							Supplies	1290
Action:							Professional Services	8,000
<ul style="list-style-type: none"> <li>Collate information for PIR 2019 reporting</li> <li>Organize and conduct the project's Mid Term Evaluation</li> </ul>					GEF		Direct Project Costs	16,010
<b>SUB TOTAL (Project Management) Activity 5</b>								<b>48,350</b>
<b>GRAND TOTAL</b>								<b>800,633</b>