

## SAMOA PROJECT FACTSHEET

# Improving the Performance and Reliability of Renewable Energy Power Systems in Samoa



Empowered lives.  
Resilient nations.

### CONTEXT/BACKGROUND

Samoa is a small island nation in the southwest Pacific, its small size and remoteness from global major markets combined with its vulnerability to natural disasters and impacts of climate change have presented major challenges towards its development.

Samoa's main imports are petroleum products, food items and manufactured goods. Of the total imports (in US\$) in 2012, about 21.6% was petroleum products. In 2007, Samoa's greenhouse gas emissions totaled approximately 353.03 Gg CO<sub>2</sub> eq, while CO<sub>2</sub> removals of forests and croplands totaled 787.07 Gg. About 95% of Samoa's emissions come from the following six sources: road transport (27%), Livestock farming (25%), Nitrous oxide from Agricultural Soils (13%), Electricity Generation (13%), Other Energy Consumption (10%) and Wastewater (7%). In general, CO<sub>2</sub> accounts for 51% of total CO<sub>2</sub>eq emissions of which more than 96% is attributed to the energy sector.

Samoa has transformed to a society that relies on a commercial energy supply based on imported petroleum products, further driven by the increasing demand for road vehicles, electrical appliances and cooking gas. Today, Samoa's energy demand is met by three main sources: petroleum products, hydropower and solar. biomass and while there is the potential to harness geothermal, hydro, ocean, based energy, wind, solar and biomass energy to reach the target of 100% electricity produced by renewable energy by 2017.

### PROJECT SUMMARY

The primary objective of the IMPRESS project preparation grant is to design and develop a full size GEF- approved project document. Implementation of such a project will help the Government of Samoa to achieve its goal for generating 100% of its electricity from renewable energy sources through improved sustainable and cost-effective utilisation of renewable energy resources for the energy production of Samoa.

Therefore, a key expected project outcomes is:

1. **Key project document prepared and submitted to promote timely development, demonstration and financing of low carbon technologies and mitigation options.**

The key project document will be produced from data collected during project preparatory activities including identifying barriers to the improved sustainable and cost-effective utilisation of renewable energy resources, conducting a LFA (logical framework analysis), project design components and stakeholder as well as project partner coordination meetings.

### AT A GLANCE

**Project title:** Improving the Performance and Reliability of Renewable Energy Power Systems in Samoa (IMPRESS) – project preparation grant

**Project Timeframe:** December 2015 – December 2016

**Total Budget:** USD \$150,000

**Beneficiaries/villages:** to be determined

**Funding Source:** Global Environment Facility (GEF)

**Implementing Partner:** Ministry of Natural Resources and Environment (MNRE)

**Implementing Agency:** UNDP

**Parallel Co-financing:** none

### Linkages with Related Initiatives, Policies, and Frameworks

The activities of this project also have links with the UNEP-GEF PIGGAREP project as IMPRESS builds on the lessons learnt. Another linkage is with the One-UN Youth Employment Programme.

### Internal and External Collaboration

Project preparation related consultations involve a large scope of governmental and non-governmental stakeholders.

KEY PROJECT COMPONENTS and EXPECTED RESULTS		
KEY PROJECT COMPONENTS	<ol style="list-style-type: none"><li>1. Conduct of Studies</li><li>2. Conduct of Logical Framework Analysis (LFA) workshop</li><li>3. Identification and assessment of demonstrations that will be implemented in the project:</li><li>4. Detailed design of the project components and activities</li><li>5. Conduct of stakeholder and project partner coordination meetings (e.g., demonstration hosts and co-financers), and establishment of the appropriate project implementation and management arrangements</li><li>6. Preparation of the UNDP-GEF Project Document (ProDoc) and GEF CEO Endorsement Request (CER) Document based on the GEF-approved project concept, i.e., GEF-approved PIF (Annex 1)</li><li>7. Finalization of the ProDoc and CER Document</li></ol>	
EXPECTED RESULTS	Key project document prepared and submitted to promote timely development, demonstration and financing of low carbon technologies and mitigation options.	