On behalf of:



of the Federal Republic of Germany

# **STUDIES AND REPORTS**

2011 - 2015

## I. Regional



## Emerging Legal Frameworks for REDD+ in Melanesia – Synthesis Report

The purpose of this Synthesis Paper is to summarize the findings from the detailed Country Papers which describe and analyse the emerging legal frameworks for REDD+ in each country.

A notable omission in the legal frameworks of all Melanesian countries is the absence of land use planning laws.

Prepared by Lisa Ogle, on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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## Pacific Islands Regional Policy Framework for REDD+

The 3rd Regional Meeting of Ministers of Agriculture and Forestry, convened by the Secretariat of the Pacific Community on 28 September 2012 in Nadi, Fiji, endorsed the Pacific Islands Regional Policy Framework for REDD+.

The framework is designed to provide policy options to guide REDD+ programme development at regional and national levels, and to provide a rationale for financial support for the sustainable management and use of forest and tree resources.

The development of this framework was supported by the SPC/GIZ (German Agency for International Cooperation) regional project, "Climate Protection through Forest Conservation in the Pacific Island Countries", with funding from the BMUB.



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## REDD+ and Forest Carbon Rights in Melanesia – Synthesis Report

Who owns the carbon in the forest?

The purpose of this synthesis paper is to summarize the legal position as to how carbon rights are treated under existing legal frameworks in four Melanesian countries (Fiji, Papua New Guinea, Solomon Islands and Vanuatu) including options for law reform.

Prepared by Lisa Ogle, on behalf of SPC/GIZ Regional REDD+ Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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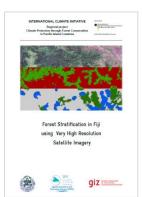


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## ll. Fiji











## Carbon Emissions from Forest Degradation caused by Selective Logging in Fiji

In this study, carbon emissions from selective logging are estimated by combining activity-related emission factors from demonstration activities with national log production data from natural forests in Fiji.

The log production in Fiji averages  $62,500 \text{ m}^3$  per year, causing emissions of approximately 252,000 t CO<sub>2</sub>. Although emissions from selective logging are modest, the activity bears the most significant potential for carbon emission reductions from the forest sector through an application of Sustainable Forest Management practices.

Prepared by: Manuel Haas, on behalf of the SPC/GIZ Regional Project 'Climate Protection through Forest Conservation in Pacific Island Countries'.

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#### April 2015 - Download

#### Forest Stratification in Fiji using High Resolution Satellite Imagery

A remote sensing based method for forest stratification in Fiji is proposed and applied to a REDD+-site. With very high resolution satellite imagery the canopy of the forest is mapped, after which this classification is stratified in open and closed forest. The results show that the method classifies the forest well and that the chosen definitions are a good representation of the actual Fijian forest.

Prepared by: Jonas van Duijvenbode, Johannes Reiche, Wolf Forstreuter - on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 292)

August 2014 - Download

## Carbon Emission Factors of Differently Managed Natural Rainforests in Fiji

This study reports on the change in carbon stock following different management regimes including Sustainable Forest Management some 20 years ago as part of the Natural Forest Management Pilot Project (NFMPP) in Nakavu, Fiji.

Currently, the most important result is that the area under Sustainable Forest Management regime seems to contain only slightly less carbon (2.5 % less, in average over the felling cycle) than the untouched control areas which remain in their natural state.

Prepared by: Michael Mussong on behalf of the regional SPC/GIZ REDD project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 184)

June 2014 - Download

#### Reference Database and Validation Concept for Remote Sensing based Forest Cover Change Products in Fiji

This accuracy assessment of the available data and data storage on the forest resources in Fiji shows that managed commercial forests are well documented, while indigenous forests usually lack good quality data, due to uncontrolled utilization. It recommends the systematic improvement of data quality, including a review of definitions of forest states and stratification.

Prepared by: Johannes Eberenz, Johannes Reiche - on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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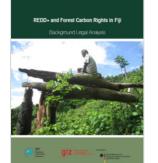
## Republic of Fiji: Legal Framework for REDD+

The report provides a legal context to the various issues relating to REDD+ in Fiji. These include the required institutional arrangements, land tenure issues, regulatory instruments, leasing structures, identification of carbon rights, addressing competing land use interests and implementation of safeguards. Concise information on the current legal arrangements in Fiji and proposals to support the requirements under REDD+ are detailed.

Prepared by: Lisa Ogle - on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 381)

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# REDD+ and Forest Carbon Rights in Fiji - Background Legal Analysis

The purpose of this Paper is to describe the relevance of carbon rights for REDD+ in Fiji and to identify the options for the ownership of forest carbon rights.

Fiji has to make a policy decision on the way ahead for carbon rights to proceed with the national REDD+ programme. The choices are between the various options for ownership of carbon rights.

Prepared by: Ms Christine Trenorden, on behalf of SPC/GIZ Regional REDD+ Project: "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 737)

#### November 2012 / Published April 2013 - Download

## Reduced Impact Logging and Fiji's National Code of Harvest Practices

Fiji has in place a revised national code of harvest practices (NCOHP).

However, the Code is just a guideline and currently has no legislative backing to enforce its implementation. For RIL to be implemented effectively, it is considered desirable to develop a legal framework in order to strengthen enforcement. This consultancy identifies actions and issues to be addressed to support this implementation.

Author: Arthur W. Klassen - on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".



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REDUCED IMPACT LOGGING AND FIJI'S

NATIONAL HARVEST CODE OF PRACTICE

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Reduced Impact Logging - Fiji Stakeholder Workshop, October 4, 2012

This workshop was convened by the Fiji Department of Forests to provide a forum for stakeholder discussion of the proposed changes to the Fiji National Code of Harvesting Practice 2010.

It was also intended to be a forum for presentation of the Consultants initial observations and findings with regards to incorporating the concept to RIL into the NCOHP (see for reference report: Reduced Impact Logging and Fiji's National Code of Harvest Practice, Klassen, 2012).

Author: Arthur W. Klassen On behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 394)

October 2012 - Download





# Technical Parameters for the Integration of SFM and REDD+ in the Nakavu Demonstration Site (Fiji)

Report on investigations in a demonstration area to elaborate technical planning parameters for the integration of Sustainable Forest Management (SFM) and REDD+ (Reducing Emissions from Deforestation and forest Degradation + forest conservation, sustainable management of forests and enhancement of carbon stocks)

Prepared by: Michael Mussong and Stephan Hoffmann, HNE Eberswalde/Germany, on behalf of the SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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Development of Technical Parameters for the Integration of SFM and REDD+ -Concept and Workplan for the Demonstration Activities in Nakavu (Fiji)

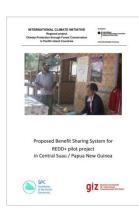
The report contains a project concept for a demonstration area: all SFM-relevant measures will be implemented but under the extended perspective of REDD+. In particular, the development of carbon stock after different logging intensities will be elaborated.

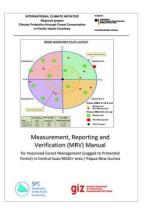
Prepared by: Michael Mussong on behalf of the SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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## III. Papua New Guinea







# Proposed Benefit Sharing System for REDD+ pilot project in Central Suau / Papua New Guinea

This document outlines current prospects for a Benefit Sharing mechanism that could be used with the Massim people in Central Suau REDD+ Project Area in Milne Bay Province / Papua New Guinea. It provides a couple of unique features as recommendations for how benefits may be shared most effectively and most amicably in the Suau District. The recommendation is that the Benefit Sharing System does not include cash benefits of any kind to landowners, but focus on community-wide projects that might be identified by women in each ward and shared amongst all community members.

Prepared by: Österreichische Bundesforste (lead author: Nancy Sullivan), on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 76)

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Measurement, Reporting and Verification (MRV) Manual for Improved Forest Management (Logged to Protected Forest) in Central Suau REDD+ area / Papua New Guinea

Management The purpose of this manual is to provide an overall review of the components that will be part of a Measurement, Reporting and Verification (MRV) system for a REDD+ voluntary market forest carbon project. This MRV manual serve as the Monitoring Plan in the "Project Design Document Development for Forest Carbon Project (Logged – Protected Forest) in Central Suau" prepared under the Verified Carbon Standard (VCS) in compliance with the VCS VM0011 methodology.

Prepared by: Österreichische Bundesforste, on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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# Forest Carbon Inventory in Proposed Central Suau REDD+ Area, Milne Bay Province, Papua New Guinea

The present report provides an overview on the methodology, results and discussion of the forest carbon inventory in Central Suau in Milne Bay province, Papua New Guinea.

The results of the land cover analysis show eleven land cover strata including three assessed to hold commercial sawlog stocks. These three land cover strata cover 43,374ha or 72.6% of Central Suau PPA area of 59,758ha. The report will be used as an input into the preparation of the Project Description under VCS.

Prepared by Österreichische Bundesforste AG on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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Analysis of Historical Deforestation, Degradation and Land Use in Central Suau, Papua New Guinea

The report gives an overview on drivers of historical deforestation and forest degradation in Central Suau, Milne Bay Province, PNG.

The results on historical land cover and use pronounce the dominance of agricultural areas for subsistence food and crop production with scattered coconut plantation along the sea shore.

The complex of identified agents, drivers and underlying causes are described: population growth is a major underlying cause and poses in conjunction with agricultural land use as livelihood activity and scarce land resources along the coast the high threat of deforestation on accessible primary forests.

Prepared by Österreichische Bundesforste AG on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 211)

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## NAMAs and REDD+ Country Study: Papua New Guinea

Two instruments for climate change mitigation are being discussed internationally: Reducing Emissions from Deforestation and forest Degradation (REDD+), and Nationally Appropriate Mitigation Actions (NAMA). How can they be differentiated, and where lies the potential niche for each of these two mechanisms under which the UNFCCC conferences prepare opportunities for funding of on-the-ground implementation?

This study compares the potential for both in Papua New Guinea, as part of a regional study conducted in Asia-Pacific by GIZ

Author: Murray Ward on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 457)

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Papua New Guinea: Legal framework for REDD+

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Papua New Guinea: Legal Framework for REDD+

The report provides a legal context to the various issues relating to REDD+ in Papua New Guinea. These include the required institutional arrangements, land tenure issues, regulatory instruments, leasing structures, identification of carbon rights, addressing competing land use interests and implementation of safeguards.

Included in the report are direct links to all important documents regarding REDD in Papua New Guinea.

Prepared by: Lisa Ogle - on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 240)

## September 2014 - <u>Download</u>



## REDD Feasibility Study for Central Suau, Milne Bay, Papua New Guinea

The REDD+ feasibility study for Central Suau in Milne Bay Province/ PNG recommends an IFM/REDD+ forest carbon project following the Verified Carbon Standard methodology for logged to protected forest (LtPF). The report indicates preliminary results on eligible forest area, biomass and carbon stock, and potential revenues.

Author: Scott A. Stanley on behalf of the SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 870)

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# REDD+ and Forest Carbon Rights in Papua New Guinea – Background Legal Analysis – updated version

There is, as yet, no legislation specifically dealing with REDD+, forest carbon rights or payments for environmental services generally in Papua New Guinea (PNG). The conclusion reached in this Paper is that customary land tenure, as presently structured, cannot legally support a market-based approach to REDD+ which involves site-specific forest carbon projects due to the legal restrictions which customary land tenure brings and the contractual obligations that underpin REDD+ projects.

Prepared by: Mr Steven O'Brien, on behalf of SPC/GIZ Regional REDD+ Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 806)

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# SPC/GIZ Climate Protection Project – Papua New Guinea National Planning Meeting Report

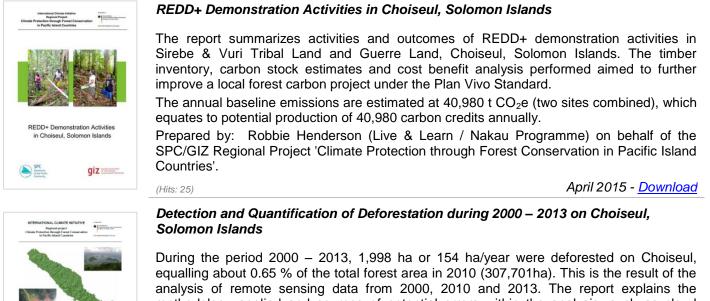
The Papua New Guinea planning meeting of the SPC/GIZ Regional Programme "Climate Protection through Forest Conservation in Pacific Island Countries" was held at the Lamana Hotel, Port Moresby, from 21 – 22 June 2011. The report documents the following:

- 1. An overview of REDD+ initiatives in Papua New Guinea
- 2. Stakeholder relationships in terms of REDD+
- 3. Assessment of REDD+ needs and priorities for the country
- 4. Potential REDD+ pilot sites and feasible project activities as identified by participants
- 5. Recommendations for the regional REDD+ information portal currently proposed under the project.

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## IV. Solomon Islands



methodology applied and sources of potential errors within the analysis, such as cloud cover and accuracy of available data. However, it is a valuable first step towards developing a methodology for a national deforestation baseline in Solomon Islands.

Prepared by: Jörg Seifert-Granzin and Dorys Mendez Zeballos – on behalf of SPC/GIZ Regional Project 'Climate Protection through Forest Conservation in Pacific Island Countries'.

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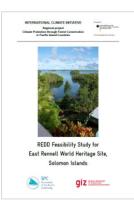
## Solomon Islands: Legal Framework for REDD+

The report provides a legal context to the various issues relating to REDD+ in the Solomon Islands. These include the required institutional arrangements, land tenure issues, regulatory instruments, leasing structures, identification of carbon rights, addressing competing land use interests and implementation of safeguards. Concise information on the current legal arrangements in the country and proposals to support the requirements under REDD+ are detailed.

Prepared by: Lisa Ogle - on behalf of SPC/GIZ Regional Project 'Climate Protection through Forest Conservation in Pacific Island Countries'.

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Solomon Islands

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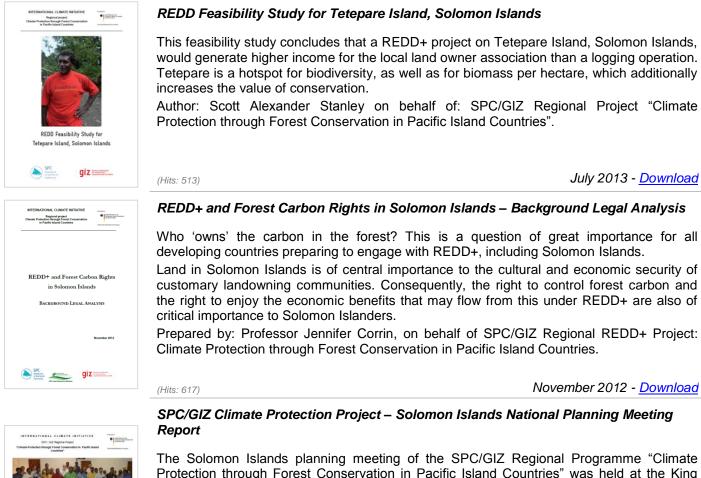
## REDD Feasibility Study for East Rennell World Heritage Site, Solomon Islands

Rennell Natural World Heritage Site (WHS) in Solomon Islands is one of only three areas of World Heritage status in the Pacific Island Region. This feasibility study concludes that a REDD+ project for the East Rennell Island WHS, would generate higher income for the local land owner association than a logging operation. Furthermore, it suggests that such an activity could support the local acceptance and conservation of the currently endangered World Heritage Status.

Author: Scott Alexander Stanley on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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Protection through Forest Conservation in Pacific Island Countries" was held at the King Solomons Hotel, Honiara, from 29 - 30 June 2011.

The report documents the following:

- 1. An overview of REDD+ initiatives in the Solomon Islands
- 2. Stakeholder relationships in terms of REDD+
- Assessment of REDD+ needs and priorities for the country 3
- 4. Potential REDD+ pilot sites and feasible project activities as identified by participants
- Recommendations for the regional REDD+ information portal currently proposed 5. under the project.

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#### ۷. Vanuatu



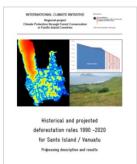


This updated version of the report provides a legal context to the various issues relating to REDD+ in Vanuatu taking into consideration the "2013 Land Law Reforms". These include the required institutional arrangements, land tenure issues, regulatory instruments, leasing structures, identification of carbon rights, addressing competing land use interests and implementation of safeguards. The report provides direct links to all important documents regarding REDD in Vanuatu.

Prepared by: Lisa Ogle - on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

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## Historical and projected deforestation rates 1990 – 2020 for Santo Island, Vanuatu

The report describes the processing of historical remote sensing data and modelling of expected land use in the next decade. Results show a very low deforestation rate of 0.3 % between 1990 and 2010, and a predicted 0.6 % between 2010 and 2020. This supports the assumption that forest degradation should become the focus of further activities towards developing a Reference Emission Level for forests in Vanuatu.

Prepared by: Jörg Seifert-Granzin, Dorys Mendez Zeballos - on behalf of SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 206)

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### Feasibility assessment, project description and GHG emissions and removal budget for Penaoru and Petawata, Santo Island, Vanuatu

This concept note assesses the REDD+ emission reduction and removal potential in and around Penaoru and Petawata on Santo's West Coast.

The assessment indicates that there is almost no potential for activities reducing deforestation in the proposed area. Reducing forest degradation by eliminating invasive weeds might show some potential for emission reductions and removals, but requires further research to assess the management options and their carbon dynamics. The community areas of Penaoru and Petawata show a potential of 664 ha for enhancing forest carbon stocks activities.

Prepared by Joerg Seifert-Grenzin (MesaConsult) on behalf of SPC/GIZ "Climate Protection through Forest Conservation in Pacific Island Countries".

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SAR-based Deforestation Assessment, Espiritu Santo Island, Vanuatu – Processing description and results, Version 1.0

Based on three data sets, the deforestation on Santo Island, Vanuatu, was assessed for 2007-2010. According to the results at this stage, 4,584 ha have been deforested during the 3 year period corresponding to an annual deforestation of 1,528 ha/yr, which appears very high compared to a rate of 467.8 ha/yr for the whole of Vanuatu reported for the period 1990 to 2000 (Herold et al. 2007).

The spatial distribution shows, that most of the deforestation occurred in the agricultural area around Santo's capital Luganville in the Southeast, between the villages Ipayato and Viase in the Southwest, and in the Northern part of the west coast.

Prepared by Joerg Seifert-Grenzin (MesaConsult) on behalf of SPC/GIZ "Climate Protection through Forest Conservation in Pacific Island Countries".

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Vanuatu is the only country in Melanesia which already has a statutory framework for forest carbon rights, although this only applies to leased land: the *Forestry Rights Registration and Timber Harvest Guarantee Act 2000.* The legislation creates a separate property right, which allows the carbon to be decoupled from the land. The grant of forestry rights under the Act is dependent on the prior creation of a lease over the land. Consequently, it does not provide a framework for customary land 'owners' to exercise their forest carbon rights on un-leased customary land.

Prepared by: Professor Jennifer Corrin, on behalf of SPC/GIZ Regional REDD+ Project: "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 619)

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## Vanuatu REDD+ - MRV and Reference Level Methodology

In support of the Vanuatu national implementation strategy for REDD+, SPC/GIZ focuses on the development of a system for measuring, reporting and verifying (MRV) carbon emissions and a Reference Emission Level (REL).

This report describes in detail the proposed methodologies for REL/RL and MRV for Vanuatu and how national circumstances will be taken into account.

Authors: SPC/GIZ, Seifert-Granzin, J., Hecht, B.

(Hits: 1315)

## SPC/GIZ: Vanuatu REDD+ Demonstration Activities – Participatory Pilot Site Selection

In the National Planning Meeting in Port Vila June 15-16 2011, the participants proposed potential pilot sites for the implementation of REDD+ demonstration activities. After further in-country consultations, three potential sites were pre-selected: Penaoru, Vatthe/Big Bay Bush (both Santo), and Wiawi (Malakula).

This report compiles the available background information on the three sites, describes the consultative process with the communities and identifies the potential area for implementation.

Prepared by Rufino Pineda for SPC/GIZ Regional Project "Climate Protection through Forest Conservation in Pacific Island Countries".

(Hits: 1155)

## SPC/GIZ Climate Protection Project - Vanuatu National Planning Meeting Report

The Vanuatu planning meeting of the SPC/GIZ Regional Programme "Climate Protection through Forest Conservation in Pacific Island Countries" was held at the Melanesian Hotel, Port Vila, from 15 – 16 June 2011.

The report documents the following:

- 1. An overview of REDD+ initiatives in Vanuatu
- 2. Stakeholder relationships in terms of REDD+
- 3. Assessment of REDD+ needs and priorities for the country
- 4. Potential REDD+ pilot sites and feasible project activities as identified by participants
- 5. Recommendations for the regional REDD+ information portal currently proposed under the project.

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# Contact

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**Project Website** 

http://bit.ly/redd-project





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On behalf of:



Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety

of the Federal Republic of Germany