# Samoa: Preparing the Afulilo Environmental Enhancement Project

## Project Details

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Preparing the Afulilo Environmental Enhancement Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Number</td>
<td>42152-012</td>
</tr>
<tr>
<td>Country</td>
<td>Samoa</td>
</tr>
<tr>
<td>Project Status</td>
<td>Closed</td>
</tr>
<tr>
<td>Project Type / Modality of Assistance</td>
<td>Technical Assistance</td>
</tr>
</tbody>
</table>
| Source of Funding / Amount | TA 7121-SAM: Preparing the Afulilo Environmental Enhancement Project  
Japanese Special Fund  
US$ 1.20 million |

## Strategic Agendas
- Environmentally sustainable growth  
- Inclusive economic growth

## Drivers of Change
- Knowledge solutions

## Sector / Subsector
- Energy - Large hydropower generation

## Gender Equity and Mainstreaming
- To help address some of the binding constraints, including community consultations, environmental concerns and impacts to the development of renewable energy resources.

## Project Rationale and Linkage to Country/Regional Strategy
- With variable international fuel prices, the development of renewable energy in Samoa has become more critical. Fuel imports for FY2008 are estimated to be 27% of total imports, up from 21% in FY2007. Fuel consumption is estimated at 12% of gross domestic product, up from 9% in FY2007. With increased demand in Samoa and projected demand growth in the world market, Samoa's vulnerability to international fuel prices is not expected to be reversed in the near and medium terms. The Government of Samoa (the Government) has requested technical assistance (TA) to help address Samoa's growing exposure to fuel price increases through development of renewable resources for power generation. A major constraint to development of renewable resources in Samoa is social and environmental issues that can be derived to impacts on communities from degrading water quality from the reservoir of the Afulilo Hydropower Project. These impacts and social concerns go beyond the Afulilo Hydropower Project, and have impacted on the ability to develop other hydropower potential.
- The Afulilo Hydropower Project was first initiated in the early 1980's when consultations were undertaken with affected people. Asian Development Bank (ADB) approved a $5.3 million loan to the Government of Samoa in December 1986 as co-financing for the project. Other cofinanciers were the World Bank, the European Investment Bank, the European Union and Australian Agency for International Development.
- The Afulilo Hydropower Project was included in the (draft) Country Partnership Strategy (CPS) 2008-2012 and supports the Government in implementing the Power Sector Improvement Project aimed at augmenting the Afulilo Hydropower Project. The loan was cancelled in 2005 due to significant costs increases associated with implementation delays, technical issues, and risks related to procurement. The project completion report (PCR) noted the environmental and social concerns introduced during the construction of the original Afulilo Hydropower Project. But the PCR also noted that augmentation of the Afulilo Hydropower Project, being the country's only storage hydro, remains highly relevant for reducing Samoa's dependence on fuel imports. The Afulilo Hydropower Project, and a possible augmentation of its capacity, is also important for reducing Electric Power Corporation's (EPC) dependence on fuel and for improving its financial management and performance. But addressing the existing social and environmental concerns will be necessary for sustaining and augmenting the Afulilo Hydropower Project. The proposed TA is included in the (draft) Country Partnership Strategy (CPS) 2008-2012 and supports the Government in implementing the Samoa National Energy Policy (2007). The CPS and the Strategy for the Development of Samoa (2007) emphasizes Samoa's need to develop indigenous and renewable resources to reduce the country's exposure to foreign exchange fluctuations and fuel price increases.

## Impact
- The energy output from the Afulilo Hydropower Project is increased.

## Project Outcome
- Recommended project scope is agreed by the Government and development partners
- Implementation was delayed by requirement to carry out post-earthquake assessment and as-built structural determination. Completion of phase 1 report and agreement on augmentation option expected to be agreed in early 2011.

## Implementation Progress
- Recommended measure to improve dam safety is agreed with the Government and development partners
- Measures to improve environmental management of the Afulilo Hydropower Project are agreed with EPC and development partners
- Project design incorporates community concerns
- Capacity for dam management is improved
- Project design incorporates augmentation of the capacity
- Consultants mobilized on 25 May 2009. Inception Mission held in June 2009. Environmental, social, and structural monitoring activities have been completed and augmentation options have been identified. Additional work to carry out post-earthquake assessment and as-built structural determination completed in Dec 2010. Final Phase 1 report to be delivered in Q1 2011.

## Geographical Location
- Samoa
Environmental Aspects

Involuntary Resettlement

Indigenous Peoples

Stakeholder Communication, Participation, and Consultation

During Project Design

The Project Steering Committee will provide directional guidance during implementation of the proposed TA to ensure wide government participation and involvement, particularly with regards to addressing key risks. Communities affected by the existing environmental impacts will be directly involved through consultations and dissemination. A feedback mechanism will be established to ensure that the concerns of the communities are addressed and included in the scope of the Project.

During Project Implementation

Business Opportunities

Consulting Services

Consultants’ work is ongoing.

Responsible ADB Officer

Hattle, Paul S.

Responsible ADB Department

Pacific Department

Responsible ADB Division

Transport, Energy and Natural Resources Division, PARD

Executing Agencies

Ministry of Finance

Hinauri Petana

antonia.wong@mof.gov.ws

Ministry of Finance, P O Box 30017, Apia, Samoa

Timetable

Concept Clearance 06 Jun 2008
Fact Finding 01 Jul 2008 to 04 Jul 2008
MRM -
Approval 03 Sep 2008
Last Review Mission -
PDS Creation Date 09 Jul 2008
Last PDS Update 21 Mar 2011

TA 7121-SAM

Milestones

<table>
<thead>
<tr>
<th>Approval</th>
<th>Signing Date</th>
<th>Effectivity Date</th>
<th>Closing</th>
</tr>
</thead>
<tbody>
<tr>
<td>03 Sep 2008</td>
<td>30 Sep 2008</td>
<td>30 Sep 2008</td>
<td>30 Apr 2010</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADB</th>
<th>Cofinancing</th>
<th>Counterpart</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,200,000.00</td>
<td>0.00</td>
<td>240,000.00</td>
<td>1,440,000.00</td>
</tr>
</tbody>
</table>

ADB provides the information contained in this project data sheet (PDS) solely as a resource for its users without any form of assurance. Whilst ADB tries to provide high quality content, the information are provided "as is" without warranty of any kind, either express or implied, including without limitation warranties of merchantability, fitness for a particular purpose, and non-infringement. ADB specifically does not make any warranties or representations as to the accuracy or completeness of any such information.