



Project title	Alaoa Multipurpose Dam				
Result areas	Sector	Total financing, USD	GCF financing, USD	Financial instrument	
Water security; Infrastructure and built environment Vulnerable communities; energy production [type from list in notes]	Public/Private	80million	30Million	Grant/Loan /Guarantee/Equity	
Description of specific climate change problem and how the project will address it	<ul style="list-style-type: none"> <li>• The Government of Samoa (GOS) has adopted a programmatic approach to address the issue of climate change induced flooding in Samoa.</li> <li>• As part of this program, the proposed project will develop and construct the new Alaoa Dam, a multipurpose dam for flood prevention, supplying seasonal water supply and providing additional hydropower.</li> <li>• Increased unreliable rainfall with increased occurrence of heavy rainfall events</li> <li>• Increased incidences of flooding</li> <li>• Challenges to stable and clean water supply</li> <li>• Strive for greater energy security and contribution to reduction in GHG emissions</li> </ul>				
Alignment with key country priorities and stakeholders engaged	<p>in line with the current <i>SDS 2016-2020 National Vision of "An improved quality of life for all"</i> through the provision of sustainable quality energy and water supply as well as addressing SDGs 1, 6 and 7. It will also protect, reduce and mitigate damages of severe floods of Vaisigano River.</p>				

# SAMOA

AE: ADB



GREEN  
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FUND

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PROGRAMMING  
CONFERENCE

## Project title:

Alaoa Multipurpose Dam

### Activities

- **Flood protection:** construction of the dam which will provide free space in the reservoir to store and retain floods. It will also increase the return period of a flood that overtops the Vaisigano river flood retaining walls.
- **Provide seasonal water supply :** Establish water supply storage to guarantee the Apia Urban Area water supply during low flow periods and reduction in the noted turbidity issue during flood periods
- **Provide additional hydropower generation :** From a new station installed capacity between 0.5-1.0 MW (Run-of-River no storage, less than 0.5 MW or Storage only for serving peak demand) and from additional flow regulation for the Samasoni small hydro station .

### Expected outcomes

- Flood protection; increased water security; reduced turbidity of water during floods; additional power security from hydropower

### Paradigm shift potential

*Explain how the proposed project can catalyse impact beyond one-off investment, setting conditions for replication and/or scaling up the project results*