



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"> The Government of Samoa (GOS) has adopted a programmatic approach to address the issue of climate change induced flooding in Samoa. 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. Increased unreliable rainfall with increased occurrence of heavy rainfall events Increased incidences of flooding Challenges to stable and clean water supply Strive for greater energy security and contribution to reduction in GHG emissions 				
Alignment with key country priorities and stakeholders engaged	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.				

SAMOA

AE: ADB



GREEN
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PROGRAMMING
CONFERENCE

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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