Preparing transboundary, climate resilient water infrastructure finance applications in southern Africa: experiences from CRIDF

World Water Week 2018

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Financing for adaptation

Impacts, returns, risks, opportunities and mitigating factors related to the following issues need to be addressed:

Issues common to all infrastructure projects	Issues specific to adaptation
1. Technical	1. Climate change risk assessment
2. Financial	2. Livelihoods
3. Environmental	3. Uncertainty needs to be factored into the design
4. Social	
5. Legal and regulatory	
6. Market / End-users	
7. Development impact	

Water infrastructure: large dam, rural and urban water supply, hydropower, irrigation

Project	Songwe River Basin Development Programme (Malawi and Tanzania)	
Sponsor	Songwe River Basin Commission	
Other projects	 Rural electrification, integrated natural resource management, economic and social infrastructure 	
Key issues	 Long preparation time, especially with multi- country stakeholders Transboundary notification Commercial vs social projects were identified through financial modelling after detailed design stage: financial and economic IRR are key parameters High capex, commercial return of dam and HPP allowed a Public-Private Partnership (PPP) 	



Songwe River meander at Mpunguti Village, Katumba Songwe Ward

CRIDF Water Infrastructure: flood embankment with sluice gates, water resource management

Project	Incomati flood risk management project (Mozambique)	
Sponsors	ARA-Sul (water board), INIR (irrigation institute), Illovo Sugar Africa, Tongaat Hulett (sugar companies)	
Key issues	 Public-private cooperation needed Private sector wants to manage the supply risk that comes from out-grower exposure to floods Private sector provided 85% of initial £1.8m funding 	
	 Government (ARA-Sul) objective is to reduce the vulnerability of the surrounding communities to floods Need to address vulnerability to drought as well 	Incomati river

Before

Water Infrastructure: small-scale rural irrigation, water supply and sanitation

Project	Bindagombe and Kufundada irrigation schemes (Zimbabwe)	
Sponsor	Gov of Zimbabwe	
Other projects	Supplier support, reduction of river bank erosion	
Key issues	 Resilient livelihoods enhanced by inclusion in private sector value chain Food security Riverbank subsistence farming Ex-post challenges: leaking pipes 	
	 electricity shortages cashflow for maintenance, inputs and fuel 	
		Aft





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Water Infrastructure: small projects aggregated to achieve scale and transformative impacts

Project	Building climate resilience of vulnerable agricultural livelihoods (Zimbabwe)	
Sponsor	Gov of Zimbabwe	
Other projects	 Sustainable agriculture Access to markets climate, agricultural and market information 	
Key issues	 small projects aggregated to achieve scale and transformative impacts Multi-source financing: government of Zimbabwe, UNDP, CRIDF 	Irrigated crops
	 Operations and maintenance funding from the Government 	

Key lessons in preparing adaptation focused projects for finance

- Adaptation impact can be achieved
 - Livelihoods matter: "resilient poverty is an oxymoron" (Robert Muir-Wood)
 - The longer-term resilience issues are not always obvious
 - Water infrastructure is often the anchor of a multi-faceted approach
- Robust project preparation is critical:
 - Economic IRR is as important to funders as Financial IRR
- Coordinating different funders' needs and expectations is essential
- The private sector can play a crucial role in mobilising adaptation focused investments

World Café table discussion topics

- How do you integrate climate change adaptation and resilience into projects? When in the project cycle do you start considering this?
- Where do you access project preparation funds from and has the assistance provided been useful?
- Have you experienced trade-offs in projects between resilience and other development needs?
- What are you biggest challenges in accessing finance to implement climate resilient water infrastructure projects? When do you start thinking about finance and what are the considerations for accessing climate finance? Are there differences when trying to access finance from private organisations versus public organisations?
- If you are an organisation that funds water and/or infrastructure projects, is resilience a concern and what project preparation support do you provide?