

Annex V: ERNM Project Logic

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Project Objective: (i) to mitigate the growing problems of aquatic weed infestation and excessive sedimentation that results from soil erosion by investing in weed and sediment management, and (ii) to establish an efficient channel to raise and distribute funding to on-going interventions, either through a trust or direct MCA grant program, and (iii) to fund activities that address social gender constraints and inequalities that prevent men and women in communities from engaging in sustainable agricultural practices.

Problem	Activities	PROCESS MILESTONES		Stakeholder	OUTPUTS		Theory of Change	OUTCOMES		MEDIUM AND LONG TERM OUTCOMES		COMPACT GOAL	
		Result Statement	Indicators		Result Statement	Indicators		Result Statement	Indicators	Result Statement	Indicators	Result Statement	Indicators
Unsustainable land management practices in key catchment areas of the Shire River lead to excessive aquatic weed infestation and sedimentation in the middle and upper Shire River basins, resulting in frequent interruptions in power generation among hydroelectric plants, and low social and economic returns for men and women with natural resource-based	Activity 1. Weed and Sediment Management	Sufficient investment for tools and labor to harvest weeds	Amount of dredgers and weed harvesting equipment financed	ESCOM	Improved Control of Aquatic Weeds and Sedimentation	ESCOM expenses on aquatic weed management	IF weeds are removed and sedimentation prevented or reduced, THEN the hydropower generators can operate more efficiently by not clogging up and by having sufficient levels of water to generate power, THEREBY reducing power outages and allowing the Malawi people and business to benefit from a stable power supply. IF a trust is set up, THEN further	Reduced weed infestation and siltation in upper Shire River basin	Distribution of invasive aquatic species	Improved Electricity Access and Availability for the Malawian people and businesses	Electric Power Consumption per Capita	Economic Growth	Annual real GDP growth rate
			Amount of money spent financing equipment			Amount of weed harvested at Liwonde barrage per month					Water turbidity		
			Number of workers trained and paid			ESCOM expenses on sediment management			Frequency of outages		Total Electricity Generated		
			Amount of money spent training and paying workers			Percentage of head pond available			Duration of outages				

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livelihoods in the surrounding communities.	Activity 2. ENRM Activity	An effective sustainable financing mechanism for the implementation of ENRM activities in the Shire Basin is established	Plan for sustainability of the payment for ecosystem services mechanism	TBD	Long-term sustainable arrangement established to support improved land management and weed control in the Upper and Middle Shire River Basins.	Operational payment for ecosystem services mechanism established	<p>initiatives and organizations can be funded, THEREBY leading to the maintained consistency and improvement of better land use practices.</p> <p>IF community interventions are implemented, THEN incentives will be more aligned for productive decision making, THEREBY improving land use and watershed management practices, THEREBY decreasing in siltation and erosion in the project area</p>	MCA Small Grants and PES-funded interventions successfully reduce soil erosion, integrate sustainable land management practices, and improve the natural resource based livelihoods in priority catchments	Increased investment into catchment conservation	Improved availability of hydroelectric power plants (HEP) in generation	Energy not served due to weeds and sedimentation, disaggregated by HEP	Annual real per capita income	
			Amount of capital and investment provided to the trust			TBD					Transition plan developed		Number of farmers trained disaggregated by gender
					Establishment and release of more and new species of bio control agents on water hyacinth plants in the	Bio control inoculations, disaggregated by location				Sufficient capital for PES sustainability beyond Compact	Rate of disbursements vs. amounts obligated under PES mechanism	Manufacturing and industry output growth rate	
											Amount of decline in volume of soil eroded from target sites		

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					Shire River System	Efficiency of biological control on water hyacinth			Declining trend in areas or volume of water hyacinth infestation				
	Activity 3. Social and Gender Enhancement Fund	Ongoing dialogue and educational sessions through proven participatory methodologies of community engagement with men and women to discuss gender dynamics, cultural norms, and women's rights, particularly land rights and sustainable land management, as well as other social issues	Communities and participants identified	Men and women in Shire River communities	Participants sensitized to social and environmental issues, and developed action plans	Number of critical issues identified by community members as needing change		Women and men are more aware of women's economic and social rights and the importance of managing their resources sustainably	Percentage of women who have increased control of their land and the decision making regarding land use	Engagement of women, men, communities, traditional authorities and leaders in the sustainable and equitable management of land and other natural resources in the context of the ENRM project.	Equitable and efficient decision making roles between communities and households, men and women.	Reduced Poverty	Poverty rate or poverty gap
		Communities and participants selected	Number of action plans developed by community members to promote change			Increased capacity of community authorities and leaders to support and promote shifts in the way land is used and managed		Percentage of communities who adopted conservation agriculture	Improved yields				
		Community Leaders Identified and Signed up for training	Number of leaders trained through workshops			Better informed action taken by leaders to resolve land allocation/conflicts in an equitable		Number and types of action taken by authorities and leaders to support and	Increased income from marketing of surplus yields				

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								way	promote women's rights and to resolve land conflicts		Number of producers who continue to practice conservation agriculture		
		Setting up functional adult literacy and numeracy training courses	Approaches and methodologies developed and approved	Targeted leaders (including traditional, religious, and district authorities and government staff)	Women and men in community have acquired basic literacy and numeracy skills	Number of men and women who enrolled in functional literacy and numeracy training Number of men and women who completed functional literacy and numeracy training		Adult functional numeracy and literacy is improved	Number of women and men who are functionally literate Number of women and men who have a basic math understanding		Increased adult functional literacy and numeracy rates Reduction of hunger gap		Poverty rate for female headed households
		Setting up women's leadership training workshops	Selection of women candidates to receive training		Women in Shire River communities	Women have acquired the skills to play a more active role in village communities		Number of women who enrolled in leadership training Number of women who completed leadership training	Women have acquired the skills to play a greater role/more active role in the village committees and their communities as a whole		Number of women who are participating members of community and village level committees		

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		Teaching business skills and marketing to women	Number of women identified and selected for training	Women have acquired the knowledge and skills to engage in sales, marketing and new economic activities	Number of women who received business and marketing training	Economic empowerment of women through business skills, marketing and/or other approaches	Number of women who have started new businesses			Number of women who report a greater role in decision making pertaining to their land			
			Leadership Development Program planned and approved		Number of women's associations and organizations for marketing created through this process		Number of women directly or through association marketing their products						
			Curriculum planned and approved		Number of women who completed business and marketing training								

Key Assumptions and Risks		
Technical staff turnover and availability within ESCOM and MCA	Legal and regulatory environment strengthened to allow TPA	Availability of maintenance spares from ESCOM
Political will to implement reforms; Parliament does not approve necessary reforms	ESCOM board to commit to new HR practices	
Procurements successful and on-time	MAREP extensions increases system instability	

External Factors Outside Control of the Project		
Malawi's MCC score card deteriorates	Demand growth is known and accommodated. New IPP generation and Kapichira II installed	Foreign Exchange and finance available for business
Vandalism of ESCOM equipment and transformers	Macroeconomic and fiscal instability	
Input price changes and exchange rate movements	Power quality and reliability improves and customers reduce generator, charcoal and fuel wood use	

Bold indicators denote Annex III indicators

 Indicates a Compact Conditions Precedent

