

Implementation Plan of Recommendations

Project Title and Reference No.:

“SolarChill Development, Testing, and Technology Transfer Outreach” (GEF ID 4682)

Contact Person (TM/PM):

Cicilia Magare

	PLANS			
RECOMMENDATIONS	ACCEPTED (YES/NO/PARTIALLY)	WHAT WILL BE DONE?	EXPECTED COMPLETION DATE	REONSIBLE OFFICER/ UNIT/ DIVISION/ AGENCY
Foresee face-to-face interactions during technology transfer work.	Accepted	No Action for the project is closed and no upcoming phase of the same project. The project design did not accommodate for travel due to limitation of resources.	Closed	Not Applicable
During procurement, pay attention to local presence of suppliers for after sales services and spare parts.	Accepted	No Action for the project is closed and no upcoming phase of the same project.	Closed	Not Applicable
The project design should contain explicit tasks for the project team to make use of and to build upon pre-existing institutions, agreements and	Partially Accepted	No action as the project is closed. The project did make considerable effort to collaborate with GAVI and PATH who were also involved installing the same technology with different governments. The focus however for	Closed	Not Applicable

Management-Led Terminal Review, UNEP

	PLANS			
RECOMMENDATIONS	ACCEPTED (YES/NO/PARTIALLY)	WHAT WILL BE DONE?	EXPECTED COMPLETION DATE	REONSIBLE OFFICER/ UNIT/ DIVISION/ AGENCY
partnerships, data sources, synergies and complementarities with other initiatives, programmes, and projects.		the Solarchill project was to test different technologies in the field to determine their performance and share results with manufacturers for improvement while the other institutions such as GAVI were working with one technology and procuring for the national governments. Therefore, the opportunities to collaborate with similar institutions were limited due to different objectives against the project.		
See reduction of costs as a relevant factor in UNEP projects as lower costs facilitates the introduction of new technologies.	Not Accepted	No action. Development of new technologies through prototypes, field testing and production may not immediately result in reduced costs. This would be expected when the supply chain is optimized, economies of scale reached and market share established which was not possible with the limited project duration and resources.	Closed	Closed
Foresee an "Initial Project Review".	Accepted	No Action. The Solarchill project which focused on developing new solar technology for refrigeration was conceptualized and developed over	Closed	Closed

Management-Led Terminal Review, UNEP

	PLANS			
RECOMMENDATIONS	ACCEPTED (YES/NO/PARTIALLY)	WHAT WILL BE DONE?	EXPECTED COMPLETION DATE	REPOSIBLE OFFICER/ UNIT/ DIVISION/ AGENCY
		several years and the need to collect field data on the performance of this technology while in the field remained relevant at inception and during the implementation period. However The ambitious design of the project with limited resources proved to be challenging during execution.		

The following is a summary of lessons learned from some of the project’s experiences and based upon explicit findings of the review. They briefly describe the context from which the lessons are derived, and the potential for wider application:

Lesson Learned #1:	Only remote technical support is not enough in complex projects.
Context/comment:	<p>The technical support in eSwatini happened mainly online, yet feedback from Palfridge and DTI confirm that DTI should have travelled to eSwatini to locally support Palfridge in the final development and testing of the SC-A prototype.</p> <p>Likewise, the field monitoring, being the key activity of the project, suffered from the fact that the experts implementing the monitoring, were not planned to travel and did not do so. This is a major cause for missing monitoring data in a significant part of SC-A and SC-B.</p>

Management-Led Terminal Review, UNEP

--	--

Lesson Learned #2:	Local presence of suppliers is essential.
Context/comment:	Procurement should have paid extra attention to the local presence of suppliers (or their official representative), to put in place a solid after sales agreement and spare parts provision, helping to achieve a timely service lead time. For instance, Vestfrost and Godrej do not have a local presence in Colombia and in eSwatini. These factors were not considered enough in the procurement phase but lead to difficulties in the implementation. For instance, when parts break, and they always do, repairs need to be done within a reasonable amount of time, this delay needs to be agreed upon up front and the local end users need to be able to easily launch a service call.

Lesson Learned #3:	The world around the project evolves as well.
Context/comment:	Strikingly tests with direct drive solar vaccine chillers had been executed and reported by others after the initial writing of the SolarChill project plan but before the start of the project. Also, measurement methods for such products had been documented elsewhere. It is good to have a project plan and stick to it, but it would help to look around, occasionally do some searches, and see what is new in this field.