Fondo Multilateral de Inversiones
Miembro del Grupo BID

REPORTE DE ESTADO DEL PROYECTO

JULIO 2014 - DICIEMBRE 2014

SECCIÓN 1: SÍNTESIS DEL PROYECTO

NOMBRE DEL PROYECTO: Eficiencia Energetica y Agua para Residentes de Bajos Ingresos Etapa 2

Número de proyecto: ME-M1080 - Nro. Operación: ATN/ME-13398-ME

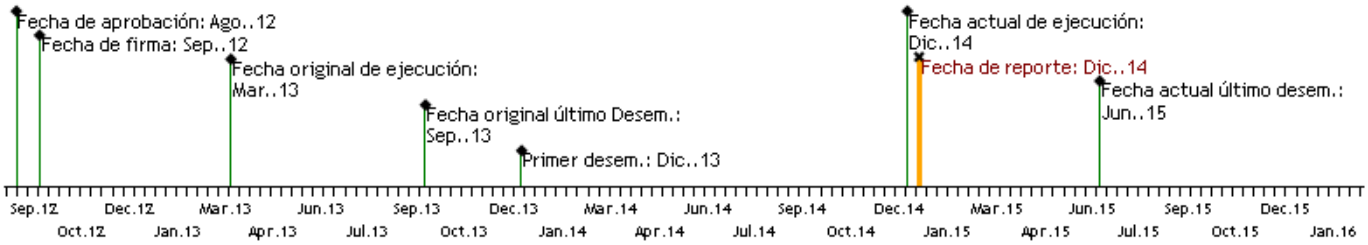
Resultado: Demonstrate the viability of the business model used (distribution of water and energy saving devices with financing from carbon credits) and foster large-scale adoption of the model.

País Administrador	País Beneficiario
MÉXICO	MÉXICO

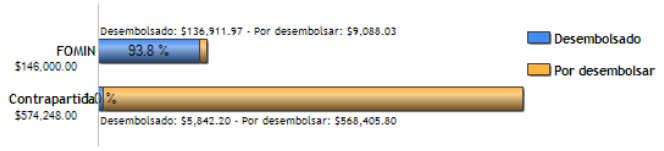
Agencia ejecutora: CAMINO SABIO AZUL S. DE R.L. DE C.V

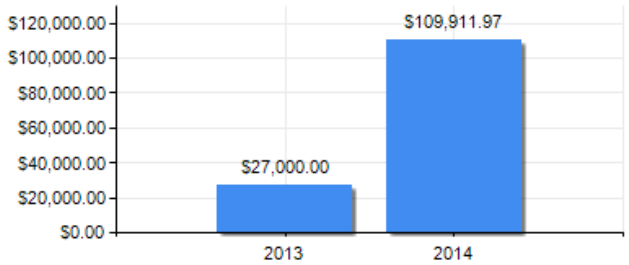
Líder equipo de diseño: Berardi, Filippo
Líder equipo de supervisión: Aguilar, Guillermo

CRONOLOGÍA DE EVENTOS

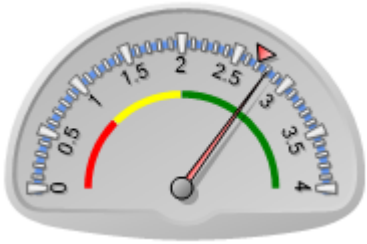


RECURSOS

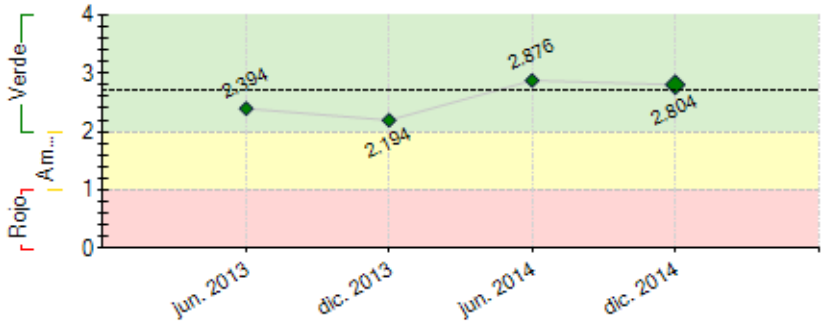




PUNTAJE DE DESEMPEÑO



Puntaje actual: Satisfactorio: 2.804
Promedio FOMIN: 2.698

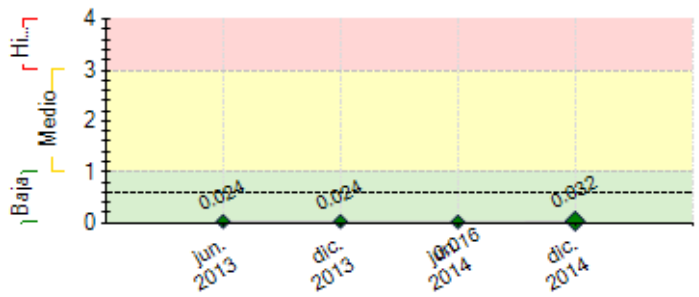


----- Promedio desempeño FOMIN

RIESGOS EXTERNOS

CAPACIDAD INSTITUCIONAL

	Riesgo
Administración Financiera:	Alto
Adquisiciones:	Alto
Capacidad Técnica:	Baja



---- Promedio de riesgo FOMIN: 0.601

SECCIÓN 2: DESEMPEÑO

Resumen del desempeño del proyecto desde el inicio

The main results achieved are:
(i) The project has achieved its goal of installing water saving devices (shower heads and two faucet flow regulator) in 15,000 lower income homes, providing practical pluming experience; and generating water and energy savings for lower income housing (ii) Provided pluming technical training for 50 ladies at Centros de Capacitación para el Trabajo Industrial (CECATI) a program by Ministry of Education job training program run by Mexican universities. The technical training at the school covered a period of 10 days and the 50 ladies obtain a certificate of pluming education at CECATI before the women went to the field for practical experience. (III) Project supported a new technology for saving water in kitchen and bathroom faucets. This technology will allow for ease of installation in the kitchen and bathroom faucet which in turn create an avenue for scale of the water savings program. The project encountered difficulties with its main supplier of the new technology faucet flow regulators. The product was delay by 7 weeks and created cost over runs for the supplier and the project. The supplier a small company underestimated its fabrication cost and lacked adequate quality control to manage its over run. The future project must observe some of these cost of quality control in order to avoid over run by the the supplier in order for the could small scale supplier to operate and meet its final delivery schedule

Comentarios del líder de Equipo de Supervisión

De acuerdo con los comentarios de la Agencia Ejecutora
Ampliando la información de los CECATIS, este subsistema pertence a la Dirección General de Centros de Formación para el Trabajo (DGCFT), adscrita a la Secretaría de Educación Pública (SEP) cuyo objetivo es establecer contenidos y modalidades de capacitación para y en el trabajo. Las opciones educativas van desde cursos regulares impartidos en los planteles, hasta cursos de extensión y capacitación acelerada específica. También presenta la modalidad de formación en línea.

Resumen del desempeño del proyecto en los últimos seis meses

The main result this semester was the project reduced 1.5 tons of carbon emission per home, reduced water consumption by over 50% and reduced residents fuel bills in range of 10% to 50% (estimated to be 200 pesos a month). In addition we employed 50 women for equivalant 4 months.

The project encountered difficulties with its main supplier of the new technology faucet flow regulators and with recording keeping by its electronic format. The supplier of the water savings technology was small company and it underestimated its fabrication cost and lacked adequate quality control necessary manage its fabrication cost. The Executing Unit would require more man power to support supervision and support its suppliers.

The prospects of the project scale up are good. The performance of the project supported the assumption of empowering women, water savings and residents fuel savings. Project successfully installed 47,000 water saving devices with very positive results. The project did a survey of 500 randomly selected homes and nine out 10 residents would recommend the program to their friends and family. The challenge of a scale up is creating a financial program based on selling carbon credits to off set carbon tax.

At the end of the project, the Executing Unit will give special emphasize to the ¨Mujeres Plomeras¨ program and managing the knowledge related to the project.

Comentarios del líder de Equipo de Supervisión

De acuerdo con los comentarios de la Agencia Ejecutora

SECCIÓN 3: INDICADORES E HITOS

		Indicadores	Línea de base	Intermedio 1	Intermedio 2	Intermedio 3	Planeado	Logrado	Estado
Resultado: Demonstrate the viability of the business model used (distribution of water and energy saving devices with financing from carbon credits) and foster large-scale adoption of the model.	**R.1**	Volumes of emission reductions (Ers) issued by the carbon offset scheme administrator/regulator [tCO2e/year * 10years]	0				212000	212000	
							Ago. 2023	Dic. 2014	
	R.2	Water saved [Liters per Household over 10 years	0				2012830	2012830	
							Ago. 2023	Dic. 2014	
	R.3	Energy Saved [MJ per household per year, over 10 years]	0				399610	399610	
							Ago. 2023	Dic. 2014	
	R.4	Number of certified plumbers	0				50	35	
							Feb. 2014	Ene. 2015	
Componente 1: Awareness campaign	**C1.I1**	The two communities (15 khouses +contingencies) are	0				15000	34200	Finalizado

and participation **Peso:** 2% **Clasificación:** Satisfactorio		identified and list of addresses is prepared [list of addresses shared with MIF]					May. 2013	Jun. 2014	
	C1.I2	Information material is developed and made available/delivered to relevant audiences (incl. Letters to community leaders, leaflets and adverts for papers and radio) [information and informative material is available to relevant audience]					Dic. 2012	Si Jun. 2014	Finalizado
Componente 2: Design, manufacturing, deployment more efficient water fixtures **Peso:** 43% **Clasificación:** Insatisfactorio	**C2.I1**	One mold (3 components) manufactured [new molds are available]	0				3 Ene. 2013	3 Jul. 2014	Finalizado
	C2.I2	Re-certification completed for the showerhead					Oct. 2012	Si Jul. 2014	En curso
	C2.I3	Water fixtures installed in 15000 houses	0				15000 Mar. 2013	15000 Dic. 2014	Finalizado
Componente 3: 'Mujeres Plomeras' Program **Peso:** 20% **Clasificación:** Insatisfactorio	**C3.I1**	Number of plomeras certified	0				50 Ene. 2013	15 Jul. 2014	Atrasado
	C3.I2	Number of supervisors hired	0				3 Nov. 2012	4 Jul. 2014	Finalizado
	C3.I3	mobile kit available for use	0				1 Oct. 2012	10000 Jul. 2014	Finalizado
Componente 4: Administration and Knowledge management **Peso:** 35% **Clasificación:** Insatisfactorio	**C4.I1**	GS-PDD registered with Gold Standard					Ene. 2013	Si Ene. 2014	Finalizado
	C4.I2	Database with web reporting capabilities developed					May. 2013	Si Jul. 2014	En curso
	C4.I3	knowledge product developed					Mar. 2013		Atrasado

Hitos		Planeado	Fecha de cumplimiento	Logrado	Fecha alcanzada	Estado
H0	[*] Condiciones previas	1	Mar. 2013	1	Ago. 2013	Logrado tarde

[*] Indica que el hito ha sido reformulado

FACTORES CRÍTICOS QUE HAN AFECTADO EL DESEMPEÑO
[No se reportaron factores para este período]

SECCIÓN 4: RIESGOS

RIESGOS MÁS RELEVANTES QUE PUEDEN AFECTAR EL DESEMPEÑO FUTURO

	Nivel	Acción de mitigación	Responsable
1. Regultory approval of of calculated Carbon Credits	Baja	This is the first time for any project of its kind. While there has been a preliminary audit of Cambio Azul results, the final approval is pending the installation of water meters to be installed in March	Project Coordinator

NIVEL DE RIESGO DEL PROYECTO: Baja **NÚMERO TOTAL DE RIESGOS:** 4 **RIESGOS VIGENTES:** 1 **RIESGOS NO VIGENTES:** 2 **RIESGOS MITIGADOS:** 1

SECCIÓN 5: SOSTENIBILIDAD

Probabilidad de que exista sostenibilidad después de terminado el proyecto: P - Probable

FACTORES CRÍTICOS QUE PUEDEN AFECTAR LA SOSTENIBILIDAD DEL PROYECTO

[No se reportaron factores para este período]

Acciones realizadas o a ser implementadas relativas a la sostenibilidad:

Cambio Azul ("Blue Change") is a social enterprise formed to develop and implement this program linking residential water savings, energy savings, and greenhouse gas emissions reductions. Covering all Mexico, Cambio Azul trains and employs women plumbers to replace showerheads and faucet regulators in low-income housing with free quality efficient devices . The program, known as mujer Proactive monitoring continues for up to 10 years per installation. The objective is to lower water and fossil fuel use, reduce GHG emissions, save residents money, and foster a long-term cultural shift toward water and energy conservation consistent with government sustainability objectives. a lesson of the effort is that pursuing sustainability and validated results requires significant additional requirements than the water sector would normally undertake. Conservative and reliable methodology standards are established and enforced by monitoring, reporting, and verification (MRV). This greatly impacts every aspect of developing and executing a program. For Cambio Azul, it took over 4 years to establish the enabling framework, and the implementation involves a host of innovative requirements.

SECCIÓN 6: LECCIONES PRÁCTICAS

	Relativa a	Autor
1. A lesson from Cambio Azul is that obtaining certified results require significant additional time, requirements, risk, and expense.For Cambio Azul, it was critical to achieve the high confidence value created by results. Other innovative programs should assess carefully the difficulties, costs, and benefits of seeking emission reduction credits. Lack of manpower to support small enterprises suppliers. The water saving device were delivered late and had Cambio Azul had the manpower and contract rights to monitor, report and verified , these problem could have been mitigated.To	Implementation	maher, George

manage the implementation complexities Cambio Azul found it necessary to engage a number of specialist organizations. These companies support regulatory, supply, transport logistics, training, data management, and human resources. Due to the long regulatory process, commercial arrangements had to be revised numerous timesFor innovative water efficiency projects that seek to gain recognition for energy and emis