

## 2011 ANNUAL REPORT

### PHILIPPINES CHILLER ENERGY EFFICIENCY PROJECT

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## 1. Executive Summary

The Philippines Chiller Energy Efficiency Project (PCEEP) was conceived to tackle the numerous barriers to the adoption of commercially-available energy efficient (EE) non-CFC chiller technology through development and deployment of an innovative financial incentive. The overall goal of the project is to capture the significant potential for energy efficiency of new non-CFC chillers by accelerating the replacement of the existing stock of CFC-based chillers, and contribute to more energy conscious decision-making by chiller owners and, eventually, a permanent market transformation of the chiller sector. Through the PCEEP, the replacement of 140 chillers (R-11, R-12, R-22, R123, R134a) for the first two years of the project and additional 235 chillers for a span of seven years with an incentive of 15% to 80% of the cost of chillers shall be done.

Furthermore, Non-CFC based centrifugal chillers as manufactured today can achieve energy consumption that represents an approximate 40% improvement as compared to average energy consumption of older CFC-based centrifugal chillers. Shifting from the use of inefficient chillers to non-CFC based centrifugal chillers may have benefits in terms of the financial savings that can be realized and the non-monetary environmental benefits. However, the challenge that presents to regulators is how to influence chiller owners to shift to non-CFC based, energy efficient chillers since this could incur a substantial investment that could have otherwise been used for their business expansion.

## 1 2.Project Data Sheet

<b>Country of Location</b>	:	Philippines (Luzon, Visayas, & Mindanao)
<b>Name of Project</b>	:	Philippines Chiller Energy Efficiency Project (PCEEP)
<b>Implementing Agency/Office</b>	:	The PCEEP as being coordinated by the Department of Environment and Natural Resources (DENR) – Foreign Assisted and Special Projects Office (FASPO) and has designated the DENR-Environmental Management Bureau (EMB) as the Project Management Unit (PMU) to manage the Project implementation.
<b>Fund Source/s</b>	:	Global Environment Facility (GEF);  Multilateral Fund (MLF) for the Implementation of the Montreal Protocol; and  Kreditanstalt Fur Wiederaufbau (KFW) for the Carbon Financing
<b>Grant Number</b>	:	OTF/MLF Grant No. TF096093 GEF Grant No. TF095991
<b>Project Amount/Cost</b>	:	GEF – US\$2.6 Million OTF/MLF – US\$1.0 Million
<b>Signing of Loan / Grant Agreement</b>	:	June 28, 2010

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<b>Implementation Schedule</b>	: The Grant Agreement was signed June 28, 2010 but start its effectivity on January 5, 2011.																				
<b>Physical Completion</b>	: CY 2020 (10 years)																				
<b>Project Development Objectives</b>	<p>: The Project Development Objective (PDO) and Global Environment Objective (GEO) are to reduce GHG emissions by replacing inefficient chillers, including both old CFC-based chillers and non-CFC-based chillers.</p> <p>The Project is targeting to replace around 375 chillers by 2020, which is expected to result in 560,000 tonnes CO<sub>2</sub> (tCO<sub>2</sub>e) of GHG savings and 700,000 MWh of energy savings.</p> <p>Chiller owners interested to join the program will need to show compliance with the following conditions based on the eligibility criteria of the CDM EB Approved Baseline and Monitoring Methodology entitled "Power saving through replacement by energy efficient chillers" (AM0060).</p> <p>For Old Chiller:</p> <table border="1"> <tr> <td><b>Age</b></td> <td>At the time of application, the chiller identified for replacement must have at least five (5) years of technical life left, based on the assumption of a 20-year business-as-usual equipment life.</td> </tr> <tr> <td><b>Date of Installation</b></td> <td>As indicated by CDM, the chiller must have been installed after 1995. 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<p><b>Project Components</b></p>	<p>:</p>	<p>Component 1: Investment towards Chiller Replacement:</p> <p>This component will provide financial incentives to chiller owner to accelerate replacement of their inefficient chillers to non-CFC efficient ones in advance of their chillers' natural attrition rate. The following are the two options for the incentives:</p> <ul style="list-style-type: none"> <li>• Up-front subsidy of 15 percent of the normative cost of new non-CFC based energy efficient chillers, or</li> <li>• Future carbon finance revenues to be generated by energy savings from replacing inefficient chillers with new non-CFC based energy efficient chillers.</li> </ul>												
		<p>Component 2: Measurement, Monitoring and Verification (MMV)</p> <p>This component will be required to measure and monitor data related to the power-output function of the inefficient chiller to be replaced, electrical consumption of the new chiller, and cooling output. A Measurement and Monitoring Consultant (MMC) will be contracted by the DENR.</p>												
		<p>Component 3: Technical Assistance; and</p> <p>This component will enhance the knowledge and build the capacity of the COs, the chiller manufacturers and suppliers, and the contractors as well as the government regulators, the Coordinating Entity (CE) and the PMC, on the following: (a.) Significant rate-of-return on investment of chiller replacement and other potential low-cost and/or no-cost energy conservation measures in large buildings; (b.) Policies and regulations on the prohibition of CFC (newly-produced) consumption/ importation; (c.) Various requirements of the Project's Manual of Protocols approved by the CDM EB; (d.) Financial incentive packages offered by the Project; (e.) Replacement and maintenance of new chillers to remove COs' perceived technology risks; and (f.) Adoption of environment-friendly, energy efficient technologies, practices and methods including the implementation of the</p>												

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	Environmental Management Framework (EMF).
	<p>Component 4: Project Management</p> <p>This component is designed to assist the CE, the Financial Management Staff (FMS) of the DENR, and the Project Management Unit (PMU) in implementing the day-to-day activity of the project.</p>

## **2 3.CY 2011 Significant Project Outputs and Results**

### **2.1 Component 1: Investment in Chiller Replacement**

World Bank provided a total of 337 baseline survey list of target chillers to be replaced in the country and some were from the Philippine Ozone Desk (POD) and from the Project Management Unit (PMU). The list were reviewed and analyzed based on the AM060 Eligibility Criteria requirements. Initial validation process of the baseline survey list was through phone call interviews (local and long distance calls) intended to the Chief Engineer, Facilities Manager, Building Administrator and others who were in charge in the Chiller Operations.

As of March 22, 2011, the Project Management Unit and Project Management Contractor (PMC) came up with a clean list of 175 eligible chiller units representing 117 establishments nationwide broken down in Island clusters as follows: for Luzon, 116 chillers representing 60 establishments; Visayas, 38 chillers representing 36 establishments; and Mindanao, 21 chillers representing 21 establishments.

In coordination with the World Bank the Department of Environment and Natural Resources (DENR) officially launched the Philippine Chiller Energy Efficiency Project (PCEEP) on May 24, 2011, to create public awareness to the public, industry sectors and chiller suppliers. The first Sub-Grant Agreement was also signed during the project launching.

As of end of the 4<sup>th</sup> quarter of 2011, project recorded a total 154 eligible potential chiller, 37 chiller units are in the pipeline, 69 chiller units to be revisited, and 48 newly considered chiller units in the country. Site visitations were conducted following the chiller owners' submission of Letter of Intent to participate in the Project.

### **2.2 Component 2: Measurement, Monitoring, and Verification**

The drafting of the CDM Design Documents Version 1 (i.e. Program of Activities Design Documents/PoA-DD, Generic CDM Program Activity Design Document/CPA-DD, Specific CDM Program Activity Design Document/CPA-DD, and Sustainable Development Benefits Documents/SDBD) was officially submitted by the Project Management Contractor (PMC) on July 15, 2011 and was officially endorsed to the CDM-Designated National Authority (DNA) by the Foreign-Assisted and Special Projects Office (FASPO) on July 20, 2011 to support the request for Letter of Approval (LOA) in relation to the project's application for CDM registration. CDM Design Documents were also endorsed to the Energy Utilization Management Bureau of the Department of Energy on July 21, 2011. The Grid Emission Factor was updated on the third quarter of 2011.

PCEEP Design Documents were validated by the Designated Operating Entity (DOE) from August 8 to 10, 2011, the first round of validation. The said DOE Validation Team was represented by Mr. Nikunj Agarwal and Mr. Praveen Tekchandani from TUV-SUD. The three- day visit covered the validation of CDM PoA-DD, CDM CPA-DD both Generic and Specific respectively. Chiller No. 3 at the Peninsula Hotel Manila, which is the PCEEP CPA-DD first test case was also visited and validated by the DOE.

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After the thorough review and evaluation of all the design documents as well as the supporting documents, the 1<sup>st</sup> and 2<sup>nd</sup> Validation Protocol which contained the Corrective Action Requests (CARs) and Clarification Requests (CRs) were received by the CE and PMU on September 2, 2011 and October 19, 2011 respectively. The Project Management Unit and Project Management Contractor submitted the 1<sup>st</sup> and 2<sup>nd</sup> Responses to the Validation Protocol together with the supporting documents, on September 23, 2011 and December 20, 2011.

The Department of Energy's Technical Working Group (TWG) evaluated the Project Design Documents last September 20, 2011 and came-up with the following supporting documents requests: a.) agreement with the Peninsula Hotel Manila on the implementation of the CDM-CPA; b.) list of potential proponents of PCEEP; c.) documentation on public consultation on the CDM Activity including the invitations, attendance and minutes of discussion; and d.) matrix on the quantified SDBD due to the CDM Project Implementation. Those supporting documents were gathered and officially submitted to the TWG on November 22, 2011, by PMC and PMU together with the Revised Clean Development Mechanism Project Activity Design Document (CPA-DD) and Power Point presentation of The Peninsula Manila for review and evaluation.

With regard to procurement, the PMU submitted to the CE for its endorsement to the World Bank the Terms of References (TORs) for the Management Information System (MIS), Monitoring, Measurement and Verification (MMV) Consultants, PMU Financial Specialist and PMU Technical Staff to support the day-to-day activity of the PMU. The approved CY 2012 Procurement Plan and General Procurement Plan were also submitted to the Coordinating Entity on November 17, 2011.

At present, a total of 34 chiller units in the pipeline have already been assessed by the PMC Chiller Specialist in terms of determining their Power Output Function (POF). POF shows the average kilowatt per tons of refrigeration. The Chiller Specialist has also conducted audit on the individual chillers as part of the requirements in the program participation process. . From the 21 chiller units in the pipeline, 7 units have an average power consumption of more than 1.0 kW/TR. Estimated Carbon Emission Reductions (CERs) were also computed.

### **2.3 Component 3: Technical Assistance**

The Department of Environment and Natural Resources (DENR) conducted a Strategic Planning Workshop of Programmatic CDM Implementation for the PCEEP last May 23, 2011. The workshop discussed, developed, and structured the strategic planning for the systematic implementation of the Program of Activities (PoA) under the PCEEP.

During the last quarter of the year, Updating of the Operations Manual cum Workshop was conducted and held at Holiday Inn Clark, Pampanga. The said workshop was participated by the FASPO, DENR Accounting Division, DENR Management Information System, PMU and PMC representatives. Various inputs were being incorporated in the revised OM.

Last August 23 and August 24, 2011, Technical Consultation Meeting was held at FASPO Conference Room to discuss with the chiller suppliers and chiller owners the issues raised by the validator regarding technical life of chiller units and other details on chiller specifications. .

### **2.4 Component 4: Project Management**

Project Management Unit (PMU) and Coordinating Entity (CE) accepted the Revised Final Inception Report submitted by the Project Management Contractor (PMC) - Berkman

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International Inc. on May 13, 2011. The said Inception Report covered, among others, the issues and recommendations during the first quarter of the Project including the expected output with Marketing Plan and Strategies as an Annex. The PMC also completed their list of qualified consultants consisting of a Clean Development Mechanism (CDM), Chiller, Financial and Marketing Specialist.

Updating of the Operations Manual cum Workshop was conducted and held at Holiday Inn Clark, Pampanga last October 13 & 14, 2011. The said workshop was participated by the FASPO, DENR Accounting Division, DENR Management Information System, PMU and PMC representatives.

World Bank conducted an orientation on Procurement, Financial Management and Disbursement Procedures for the PCEEP Project Management Team on October 20, 2011. The main objective of the orientation was to familiarize the PMC and PMU on the legal agreements and Bank's policies and procedure during the procurement, financial management and disbursement applicable to the PCEEP project. This was for the purposes of facilitating the preparation of financial reports, requests for the No Objection Letters and processing of withdrawal applications. The said orientation was attended by the PMU, PMC, FASPO, and FMS representatives.

The World Bank conducted its second review mission for the PCEEP last November 8-11, 2011 at the FASPO Conference Room. The review was participated by PCEEP World Bank Team (Mr. Viraj Vithoontien, Mr. Gerry Parco, Mr. Rene SD Manuel, Mr. Tomas Sta. Maria, and Ms. Susana Chua), FASPO Coordinating Entity (Ms. Cristina Regunay and Ms. Belen Panganiban), PMU (Ms. Minda Osorio and Ms. Consolacion Crisostomo), and PMC Consultants). The mission focused on the implementation review of the project with the PMU and PMC work programs, developed a potential list of chiller owners, and reviewed the technical issues identified during the validation of the PCEEP PoA and CPA Design Documents. The PCEEP Annual Work and Financial Plan for CY 2012 Current Appropriation and CY 2012 Continuing Appropriation was signed and approved by DENR Secretary.

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# Annex 1: Physical Performance Report

Program/Project/Activity		Performance Indicator	Annual Targets	Accomp.	% Accomp.	Remarks/Justification for Low Performance
COMPONENT 1: INVESTMENT IN CHILLER REPLACEMENT						
1.1	Identification of eligible chillers (post 95 and water cooled chillers)	Eligible chillers identified	375	337	100	Some CO s in the list are ineligible based on the CDM Criteria
1.2	Implementation of Marketing Plan					
	1.2.1 Clustering of chiller units	Report on analysis of target chiller owners submitted	1	1	100	
	1.2.2 Development of marketing tool	Marketing tools developed	2	1	50	
	1.2.3 Conduct of project launch workshop	Documentation reports submitted	1	1	100	
	1.2.4 Conduct of media conference	Media conference conducted	1	1	100	
	1.2.5 Orientation meeting cum FGD with suppliers	Minutes of Meeting submitted	2	2	100	
	1.2.6 Personalized visit with chiller owners	Letter of Interest submitted	70	41	59	
1.3	Participation of chiller owners (as per OM)					
	1.3.1 Processing of application of chiller owner	Application processed/chiller units evaluated	70	21	33	
	1.3.2 Initial validation of potential chillers	Report on # of chiller units surveyed	70	47	67	



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	1.3.3 Installation of new chillers	New chillers installed	10	0	0	The first initial validation was only done last August 8-10, 2011. Validation review and registration of the project is on-going. The first test case will be replacing their chiller unit 3 <sup>rd</sup> quarter of CY2012.
	1.3.4 Destruction of old chillers	Old chillers destroyed	10	0	0	The first test case will be replacing their chiller unit 3 <sup>rd</sup> quarter of CY2012, no destruction of old chiller conducted in CY 2011.
	1.3.5 Recovery and storage of refrigerants	Refrigerants recovered and stored	10	0	0	The first test case will be replacing their chiller unit 3 <sup>rd</sup> quarter of CY2012, no recovery and storage of refrigerant conducted in CY 2011.
	1.3.6 Processing and signing of Sub-Grant Agreement	SGA signed (to cover target # of chillers/yr)	10	1	10	Manila Peninsula Hotel was the first test case of PCEEP. Most of the chiller owners in the pipeline intended to sign their respective in year 2012.
COMPONENT 2: MEASUREMENT, MONITORING AND VERIFICATION						
2.1	Drafting of CDM Design Documents					
	2.1.1 CDM Program of Activity Design Document (PoA DD)	PoA DD submitted (September 23, 2011)	1	1	100	
	2.1.2. Upgrading of grid emission factor	Emission factor updated	1	1	100	

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	Program/Project/Activity	Performance Indicator	Annual Targets	Accomp.	% Accomp.	Remarks/Justification for Low Performance
	2.1.3 CDM Program Activity Design Document (Generic CPA DD)	Generic CPA DD submitted	1	1	100	
	2.1.4 CDM Program Activity Design Document for Real Test Case (Specific CPA DD)	Specific CPA DD submitted	1	1	100	
	2.1.4 Host country approval (SDBD, Proof of Legal Capacity, and other documents)	Letter of approval	1	0	0	DOE-TWG endorsed the project to DNA-Steering Committee on December 19, 2011
	2.1.5 Bundling of CPAs	CPAs bundled	1	0	0	
2.2	Baseline Measurement					
	2.2.1 Procurement of MMC	Consultants procured	1	0	0	Still waiting the NOL of Worldbank
	2.2.2 Procurement of MIS	Consultants procured	1	0	0	Still waiting the NOL of Worldbank
	2.2.3 Development of MIS (Database System)	MIS/Database designed and developed	1	0	0	
	2.2.4 Procurement of information IT software	IT software procured	1	0	0	
	2.2.5 Procurement of data logger and transmitters		10	0	0	
	2.2.6 Baseline Measurement	Report on baseline data submitted	3	0	0	
	2.2.7 Maintenance of database	Updated database	1	0	0	
2.3	Baseline Result Validation	Reports submitted	1	1	100	

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2.4	CDM validation					
	2.4.1 Procurement of Designated Operating Entity (DOE)	DOE procured	1	1	100	
	2.4.2 Submission of host country document to DNA	CDM document Submitted (1 set)	3	3	100	
	_ Review of TWG (DOEn)	TWG meetings conducted	3	3	100	
	_ Endorsement of TWG to DNA for LOA issuance	DOE letter endorsed to DNA	1	1	100	
	2.4.3 Validation of CDM design documents by the DOE	CDM document validated	3	3	100	
	_ Clarification submission	Clarifications submitted to DOE	1	2	200	
2.5	PoA registration	Registered PoA	1	0	0	
	_ Clarification submission	Clarifications submitted to DOE	1	2	200	
COMPONENT 3: TECHNICAL ASSISTANCE						
3.1	Workshop and Training Programs					
	3.1.1 Institute project awareness		4	4	100	
	a) Project Launch Workshop		1	1	100	
	b) Media Conference		1	0	0	
	3.1.2 Conduct Technical Workshops					

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	a.) Monitoring Protocols Training Workshop (OM)	Finalized OM	1	1	100	
	b.) Proper Chiller Maintenance Training Workshop		2	0	0	
	3.1.3 Conduct Public Awareness					
	a.) News and feature releases	News and feature releases written and published in national dailies and uploaded in websites	6	2	33	
	b.) Radio clips	Radio clips written and emailed to radio stations	3	0	0	
	c.) Radio phone patch interviews	Phone patch interviews conducted	3	0	0	
	d.) Project website developed and registered	Project Website designed and developed	1	0	0	
COMPONENT 4: PROJECT MANAGEMENT						
4.1	Submission of Inception Report	Inception Report Accepted	1	1	100	
4.2	Finalization of Implementing Guidelines					
	4.2.1 Operations Manual (updating)	Operations Manual Finalized	1	1	100	
	4.2.2 Project Implementation Plan	Project Implementation Plan finalized	1	1	100	

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### PHILIPPINES CHILLER ENERGY EFFICIENCY PROJECT

Program/Project/Activity	Performance Indicator	Annual Targets	Accomp.	% Accomp.	Remarks/Justification for Low Performance
4.2.3 Marketing Plan	Marketing Plan submitted	1	1	100	
4.2.4 Annual Work and Financial Plan	Annual Work and Financial Plan submitted	1	1	100	
4.3 Operationalization of Project Management Unit (PMU)	Progress Report	1	1	100	Progress report are incorporated in the Annual report submitted on Jan. 2012
4.4 Orientation on Financial Management System	Proceedings of Orientation	1	1	100	
4.5 Conduct of steering committee meeting	Minutes of Meeting submitted	1	0	0	
4.6 Support the conduct of World Bank Review Missions	Mission Report	2	3	150	
4.7 Support the conduct of KFW Review Mission	Mission Report	2	3	150	
4.8 Creation of technical working group to confirm eligible chiller	Meeting Conducted	4	4	100	

## Annex 2: Financial Performance Report

Program/Project/Activity		Performance Indicator	Allotment (in thousand)	Obligation Incurred (in thousand)	% Utilization
<b>GRANT PROCEEDS (MOOE)</b>			<b>11,240</b>	<b>1,505</b>	
COMPONENT 1: INVESTMENT IN CHILLER REPLACEMENT					
1.1	Identification of eligible chillers (post 95 and water cooled chillers)	Eligible chillers identified	200	-	-
1.2	Implementation of Marketing Plan				
	1.2.1 Clustering of chiller units	Report on analysis of target chiller owners submitted	50	-	-
	1.2.2 Development of marketing tool	Marketing tools developed	50	-	-
	1.2.3 Conduct of project launch workshop	Documentation reports submitted			
	1.2.4 Conduct of media conference	Media conference conducted			
	1.2.5 Orientation meeting cum FGD with suppliers	Minutes of Meeting submitted	150	-	-
	1.2.6 Personalized visit with chiller owners	Letter of Interest submitted	350	-	-
1.3	Participation of chiller owners (as per OM)				

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### PHILIPPINES CHILLER ENERGY EFFICIENCY PROJECT

Program/Project/Activity		Performance Indicator	Allotment (in thousand)	Obligation Incurred (in thousand)	% Utilization
	1.3.1 Processing of application of chiller owner	Application processed/chiller units evaluated	200	-	-
	1.3.2 Initial validation of potential chillers	Report on # of chiller units surveyed	200	-	-
	1.3.3 Installation of new chillers	New chillers installed			
	1.3.4 Destruction of old chillers	Old chillers destroyed			
	1.3.5 Recovery and storage of refrigerants	Refrigerants recovered and stored			
	1.3.6 Processing and signing of Sub-Grant Agreement	SGA signed (to cover target # of chillers/yr)			
		<b>SUB-TOTAL</b>	<b>1,200</b>	<b>0</b>	<b>0</b>
COMPONENT 2: MEASUREMENT, MONITORING AND VERIFICATION					
2.1	Drafting of CDM Design Documents		1,600	-	-
	2.1.1 CDM Program of Activity Design Document (PoA DD)	PoA DD submitted (September 23, 2011)			
	2.1.2. Upgrading of grid emission factor	Emission factor updated			
	2.1.3 CDM Program Activity Design Document (Generic CPA DD)	Generic CPA DD submitted			
	2.1.4 CDM Program Activity Design Document for Real Test Case (Specific CPA DD)	Specific CPA DD submitted			

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### PHILIPPINES CHILLER ENERGY EFFICIENCY PROJECT

Program/Project/Activity		Performance Indicator	Allotment (in thousand)	Obligation Incurred (in thousand)	% Utilization
	2.1.4 Host country approval (SDBD, Proof of Legal Capacity, and other documents)	Letter of approval			
	2.1.5 Bundling of CPAs	CPAs bundled			
2.2	Baseline Measurement				
	2.2.1 Procurement of MMC	Consultants procured	2,150	-	-
	2.2.2 Procurement of MIS	Consultants procured			
	2.2.3 Development of MIS (Database System)	MIS/Database designed and developed			
	2.2.4 Procurement of information IT software	IT software procured			
	2.2.5 Procurement of data logger and transmitters				
	2.2.6 Baseline Measurement	Report on baseline data submitted	1,800	-	-
	2.2.7 Maintenance of database	Updated database	150	-	-
2.3	Baseline Result Validation	Reports submitted	300	-	-
2.4	CDM validation				
	2.4.1 Procurement of Designated Operating Entity (DOE)	DOE procured			
	2.4.2 Submission of host country document to DNA	CDM document Submitted (1 set)			



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### PHILIPPINES CHILLER ENERGY EFFICIENCY PROJECT

Program/Project/Activity		Performance Indicator	Allotment (in thousand)	Obligation Incurred (in thousand)	% Utilization
	_ Review of TWG (DOEn)				
	_ Endorsement of TWG for LOA				
	2.4.3 Validation of CDM design documents by the DOE	CDM document validated			
	_ Clarification submission				
2.5	PoA registration	Registered PoA	550	-	-
	_ Clarification submission				
		<b>SUB-TOTAL</b>	<b>6,550</b>	<b>0</b>	<b>0</b>
COMPONENT 3: TECHNICAL ASSISTANCE					
3.1	Workshop and Training Programs				
	3.1.1 Institute project awareness				
	c) Project Launch Workshop		150	-	-
	d) Media Conference		50	-	-
	3.1.2 Conduct Technical Workshops				
	b.) Monitoring Protocols Training Workshop (OM)	Finalized OM	500	-	-
	c) Proper Chiller Maintenance Training Workshop		200	-	-
	3.1.3 Conduct Public Awareness				

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Program/Project/Activity		Performance Indicator	Allotment (in thousand)	Obligation Incurred (in thousand)	% Utilization
	e.) News and feature releases	News and feature releases written and published in national dailies and uploaded in websites	5	-	-
	f.) Radio clips	Radio clips written and emailed to radio stations	15	-	-
	g.) Radio phone patch interviews	Phone patch interviews conducted	45	-	-
	h.) Project website developed and registered	Project Website designed and developed	50	-	-
<b>SUB-TOTAL</b>			<b>1,015</b>	<b>0</b>	<b>0</b>
COMPONENT 4: PROJECT MANAGEMENT					
4.1	Submission of Inception Report	Inception Report Accepted	1,575	1,505	100
4.2	Finalization of Implementing Guidelines				
	4.2.1 Operations Manual (updating)	Operations Manual Finalized	100	-	-
	4.2.2 Project Implementation Plan	Project Implementation Plan finalized	100	-	-
	4.2.3 Marketing Plan	Marketing Plan submitted	50	-	-
	4.2.4 Annual Work and Financial Plan	Annual Work and Financial Plan submitted	100	-	-

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### PHILIPPINES CHILLER ENERGY EFFICIENCY PROJECT

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Program/Project/Activity		Performance Indicator	Allotment (in thousand)	Obligation Incurred (in thousand)	% Utilization
4.3	Operationalization of Project Management Unit (PMU)	Progress Report	400	-	-
4.4	Orientation on Financial Management System	Proceedings of Orientation	50	-	-
4.5	Conduct of steering committee meeting	Minutes of Meeting submitted	50	-	-
4.6	Support the conduct of World Bank Review Missions	Mission Report	50	-	-
4.7	Support the conduct of KFW Review Mission	Mission Report			
4.8	Creation of technical working group to confirm eligible chiller	Meeting Conducted			
		<b>SUB-TOTAL</b>	<b>2,475</b>	<b>1,505</b>	<b>45</b>
		<b>GRAND TOTAL</b>	<b>11,240</b>	<b>1,505</b>	<b>14</b>