FY 2013: Ongoing Locally-Funded Projects

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
1. Detailed Resource	Geothermal Energy	The project will be	The project aims to	Identify the factors	As of 3Q 2013:
Assessment of Low	Management Division	implemented in four	conduct a detailed	needed in the	The implementation of the Integrated Geoscientific
Enthalpy Geothermal	- Renewable Energy	(4) years starting	assessment of three	development of low	Survey was already started by FEDS on August 2013
Areas	Management Bureau	2011.	(3) potential low	enthalpy geothermal	with the conduct of detailed geological and geochemical
	(GEMD-REMB)		enthalpy geothermal	resources for power	surveys over Banton and Balut Islands. The Surface
		The project is related	areas identified in	generation that will	Exploration studies were performed by their technical
		to the locally-funded	previous field	serve as the template	staff and with the assistance of our GEMD personnel.
		project entitled	appraisals particularly	for future similar	Right after its completion, it was followed immediately
		"Resource Assessment	for power generation	projects;	by the geophysical (CSMT) survey in Banton Island,
		of Low Enthalpy	application in the	2) By the end of the	Romblon on 11 September 2013. Moreover, FEDS also
		Geothermal Resource	remote areas hosting	geological,	submitted their Pre-Survey Reports: a. Review of
		in the Philippines",	the resource. These	geochemical and	available and existing data of Banton and Balut Island;
		which started in 2007	resources may be	geophysical surveys,	and, b. Remote sensing and aerial photo interpretation
		until 2011 but was	developed for power	drilling targets and	report on 26 September 2013 as prescribed in the TOR
		terminated in 2009 due	generation, and yield	the drilling of slim	set forth by the division.
		to budget constraints.	other uses in the	holes should be done	
			tourism and	on the most promising	To date, CSMT survey in Balut Island is on-going. The
		Project Cost:	agricultural sector.	geothermal area; and	CSMT equipment was mobilized on 04 November 2013
		Total Project Cost:		3) Additional geoscientific	while CSMT survey in Banton was completed on 25
		Php 63,046,000.00		data gathered on the	October 2013. Further, the activities contained in the
		5), 0010 1		Philippine low-	Work Program are still within the timetable and
		FY 2012 Approved		enthalpy geothermal	sufficient to finalize and to come up with an integrated
		Budget:		resources.	resource assessment and geothermal resource model.
		Php 20,288,000.00 (FY 2012 cum:			On the other hand hidding for the Contract Out Convice
		Php 1,403,000.00)			On the other hand, bidding for the Contract-Out Service for Integrated Geoscientific Survey of the 3 <sup>rd</sup> area
		FY 2013 Approved			(Maricaban Island) is now on-going and is scheduled for
		Budget:			opening on 19 November 2013. This is the third time it
		Php 10,144,000.00			was offered for bidding due to the lack of participating
		(FY 2013 (BP 202):			bidder and the disqualification of the lone bidder.
		Php 30,438,000.00)			bidder and the disqualification of the lone bidder.
		(FY 2014 (BP 202):			(Included in the report are: 2013 3Q accomplishment,
		Php 30,220,000.00)			implementation status of detailed resource assessment
		FTIP 30,220,000.00)			of selected low-enthalpy geothermal areas, 3Q financial
					status report)
					σιατάστοροιτή

Solur and Wind Energy  Electrification Program (ILP) in Off-cirid Areas USing Renewable Finergy  Solur and Wind Energy Management Bursus (SWEMD-REMB)  Solur and Wind Energy Management and organizations, 10 per ported to examinate the procurement of RE systems and experience of a solution program traget of results house commentation to be considered to which cannot be commented in the Act of His Bursus Act of His Bursus Act of World His Bursus (SWEMD-REMB)  Solut and Management Amounts (SWEMD-REMB)  Solut and Wind Energy Management Amounts (SWEMD-REMB)  Solut and Remanagement Amounts (SWEMD-REMB)  Solution in Institutional Remanagement and community organization programment Amounts (SWEMD	Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
Implemented in seven   Renewable Energy   Amanagement Division   Renewable Energy   Amanagement Division   Renewable Energy   Amanagement Bursu (SWEMD-REMB)   Renewable Energy   Amanagement Bursu (SWEMD-REMB)   Renewable Energy   Amanagement Bursu (SWEMD-REMB)   Renewable Energy   Amanagement Division   Renewable Energy   Amanagement Bursu (SWEMD-REMB)   Renewable Energy   Amanagement Bursu (SWEMD-REMB)   Renewable Energy   Amanagement Division   Renewable Energy   Renewable Energy   Amanagement Division   Renewable Energy   Renewable Ener				<u> </u>		·
## Actional Government to provide house lenergy within the project Cast: Total Project Cost: Php 1,006,675.00 FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 172,6770,000.00 Proposed Budget: Php 136,772,000.00 Proposed Budget: Php 136,772,000.00 Proposed Budget: Php 136,772,000.00 Proposed Budget: Php 136,772,000.00 Proposed Budget: Php 138,600,000.00 Proposed Budget: Php 153,388,000.00 2015: Php 185,600,000.00 Php 185,3600,000.00 Php 185,3600,000.00 Php 185,3600,000.00 Php 185,3600,000.00 Php 186,727,000.00 Php 185,600,000.00 Php 186,727,000.00 P					•	
Management Bureau (SWEMD-REMB)  Management Bureau (SWEMD-REMB)  A holipetive of achieving a 90 percent household electrification level by 2017.  Project Cost: Total Project Cost: Php 1,006,675,00 Php 116,041,000.00 (FY 2012 cum: Php 117,368,000) FY 2013 Approved Budget: Php 120,770,000.00 Proposed Budget: 2016: Php 120,770,000.00 Proposed Budget: Php 153,388,000.00 2016: Php 166,727,000.00 2016: Php 185,600,000.00 Php 185,600,0						
SWEMD-REMB  achieving a 90 percent household electrification level by 2017.   Project Cost: Total Project Cost: Total Project Cost: Php 1.006.675.00   Pr 2012 Amproved Budget: Php 116.041.000.00 (FY 2012 Cum: Php 171.368,000) Pr 2013 Approved Budget: Php 126,770.000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 158,388,000.00 2016: Php 168,727,000.00 and photoside and photoside and photoside and provided and provided and provided and poeration and poeration and management and operation and poeration and management and operation and poeration and management and operation and poeration and management and operation and poeration and management and operation and management and operation and management and operation and poeration and management and operation and poeration and poeration and management and operation and poeration and poeration and poeration and poeration and operation and poeration and operation a	1					1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
bousehold electrification level by 2017.  In the strip of	<u> </u>					
electrification level by 2017.  2017.  by 100 (2015)  Total Project Cost: Total Project Cost: Operatives. With about 4 million potential house connections to be unergized until year potential house connections to be energized until year 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: Php 126,7770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 168,727,000.00 2016: Php 168,727,000.00 2016: Php 168,727,000.00 2016: Php 185,600,000.00 Connection-level electrification house beneficiary capacitated on the technical and social (management and operation and morganization of peration and ministration of peration and ministration of peration and management and operation and morganization of peration and ministration of peration and ministration of peration and management and operation and manitreance of RE systems; 2) Rehabilitate in-operational RE increase in the peration and management and operation and management and operation and manitreance of RE systems; 2) Rehabilitate in-operational RE increase in fair flung sitios.  Scattered households in far flu						
conventional grid by the distribution utilities or electric cooperatives. With about 4 million potential house Pry 2012 Approved Budget: Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 174,368,000 Proposed Budget: Php 126,770,000.00 Proposed Budget: Php 12014. Php 139,440,000.00 2015: Php 185,600,000.00 2016: Php 185,600,000.00 2017: Php 185,600,000.00 Php 185,000.00 Php 185,000.00 Php 185,000.00			electrification level by	viably connected to the		
Project Cost: Total Project Cost: Php 1,006,675.00  FY 2012 Approved Budget: Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: Php 139,440,000.00 2015: Php 185,727,000.00 Php 185,727,000.00 2016: Php 185,727,000.00 2017: Php 185,600,000.00 Php 185,600,000.00 Php 185,727,000.00 Php 185,600,000.00 Php 185,600,000.				conventional grid by	operation and	training
Total Project Cost: Php 1,006,675.00 PY 2012 Approved Budget: Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: 2017: Php 133,388,000.00 2016: Php 153,388,000.00 2017: Php 185,600,000.00 Php 185,600,				the distribution utilities	maintenance of RE	5) Completed the conduct of social preparation and
Php 1,006,675.00  Budget: Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 120,770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 183,388,000.00 2016: Php 186,727,000.00 2016: Php 185,600,000.00 Proposed Budget: 2017: Php 185,600,000.00 Proposed Budget: Php 185,600,000.00 Proposed Budget: Once the description of RE technologies for rural electrification, house beneficiaries as well as beneficiarly LGUs and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP					systems;	
FY 2012 Approved Budget: Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00 Conscition level Php 185,600,000.00 Proposed Budget: Php 185,600,000.00 Conscition level Php 185,600,000.00 Conscition level Php 186,700,000.00 Conscition level Php 189,440,000.00 Conscition level Pho 139,440,000.00 Conscition level			Total Project Cost:	cooperatives. With	<ol><li>Rehabilitate in-</li></ol>	6) Conducted physical inspections of 831 HHs out of the
FY 2012 Approved Budget: Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00 2017: Php 185,600,000.00 2017: Php 185,600,000.00 2018: Php 185,600,000.00 2019: Phe 185,600,000 2019: Phe 185,600,000 2019: Phe 185,60			Php 1,006,675.00	about 4 million		4,412 installed
Budget: Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00 Php 185,000,000 Php 185,000,00						
Php 116,041,000.00 (FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00  2017: Php 185,600,000.00  Phy 185,						
(FY 2012 cum: Php 171,368,000) FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00 Proposed Budget: Php 139,440,000.00 University of the rural electrification program target of realizing 90% house connection-level electrification by 2017. While promoting judicious utilization of RE technologies for rural electrification, house beneficiaries as well as beneficiary Php 185,600,000.00 University of the rural electrification program target of realizing 90% house connection-level electrification by 2017. While promoting judicious utilization of RE technologies for rural electrification, house beneficiaries as well as beneficiary University of the rural electrification program target of realizing 90% house connection-level electrification, of RE technologies for rural electrification program target of realizing 90% house connection-level electrification by 2017.  While promoting judicious utilization of RE technologies for rural electrification, house beneficiaries as well as beneficiary used as the rural electrification program target of realizing 90% house connection-level electrification, house beneficiaries as well as beneficiary used as the rural electrification program target of realizing 90% house connection-level electrification, house beneficiaries as well as beneficiary used to the rural electrification program target of realizing 90% house connection-level electrification program target of realizing 90% house co						
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FY 2013 Approved Budget: Php 126,770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 186,727,000.00 2017: Php 185,600,000.00 Php 185,000.00 Php 185,00						
Budget: Php 126,770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00 Proposed Budget: Php 185,600,000.00 Proposed Budget: Php 139,440,000.00 Proposed Budget: Php 153,388,000.00 Proposed Budget: Php 153,388,000.00 Proposed Budget: Php 153,388,000.00 Proposed Budget: Php 153,440,000.00 Proposed Budget: Php 153,388,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,440,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 139,440,000.00 Proposed Budget: Php 153,388,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,940,000.00 Proposed Budget: Php 153,944,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,944,000.00 Proposed Budget: Php 153,988,000.00 Proposed Budget: Php 153,988,0						
Php 126,770,000.00 Proposed Budget: 2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00  Php 185,6						
Proposed Budget: 2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00  Php 185,						
2014: Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00  Example of the promoting judicious utilization of RE technologies for rural electrification, house beneficiaries as well as beneficiary LGUs and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP						
Php 139,440,000.00 2015: Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00  Be technologies for rural electrification, house beneficiaries as well as beneficiarry Php 185,600,000.00  LGUs and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP				electrification by 2017.		
2015: judicious utilization of Php 153,388,000.00 2016: rural electrification, Php 168,727,000.00 2017: well as beneficiary Php 185,600,000.00 LGUs and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP				While promoting		
Php 153,388,000.00 2016: Php 168,727,000.00 2017: Php 185,600,000.00  RE technologies for rural electrification, house beneficiaries as well as beneficiary LGUs and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP						
2016: Php 168,727,000.00 2017: Php 185,600,000.00  CGU and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP						
Php 168,727,000.00 2017: Php 185,600,000.00  LGUs and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP						
2017: Php 185,600,000.00  Well as beneficiary LGUs and ECs are likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP						
likewise appropriately capacitated on the technical and social (management and organizational) aspects of solar PV and MHP				well as beneficiary		
capacitated on the technical and social (management and organizational) aspects of solar PV and MHP			Php 185,600,000.00			
technical and social (management and organizational) aspects of solar PV and MHP			·	likewise appropriately		
(management and organizational) aspects of solar PV and MHP				capacitated on the		
organizational) aspects of solar PV and MHP				technical and social		
of solar PV and MHP				(management and		
systems.				of solar PV and MHP		
				systems.		

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
3. Biofuels Program	Biomass Energy	This project aims to	The project aims to		As of 3Q 2013
	Management Division	promote the use of	implement the Biofuels		
	<ul> <li>Renewable Energy</li> </ul>	biofuels (biodiesel ang	Law, Biofuels		1) Implementation of the Biofuels Act of 2006 (RA
	Management Bureau	bioethanol) as cleaner	Manufacturing Plants		9367)
	(BEMD-REMB)	alternative fuel,	Inspection and		- Monitored monthly production/ sales of accredited
		develop the national	Monitoring and to		nine (9) biodiesel and four (4) bioethanol production
		biofuels development	conduct Sectoral		plants
		plan, to conduct	Meetings,		- Awarded Certificate of Registration with Notice to
		techno-economic and	Consultations and IEC		Proceed to one (1) bioethanol project – Balayan
		viability study for	Activities.		Distillery, Inc.
		expanded utilization of			- Conducted evaluation, site inspection/ validation,
		biodiesel (power			and sampling of CME product for compliance to the
		generation, marine			Philippine National Standards (PNS) of one (1)
		transport and			biodiesel project applications – Econergy Corporation
		industries) and to			- Monitored/ Inspected two (2) biodiesel production
		conduct vehicle			plant and conducted sampling of CME product for
		performance testing for			compliance to the Philippine National Standards
		higher biofuel-blends			(PNS) and monitoring under JAO 2008-1, Series of
		and resource assessment of other			2008: Bioenergy 8 Corporation, Freyvonne Milling Services
		viable biofuel			- Based on the results of capacity validation of nine
		feedstocks.			(9) accredited CME production plants conducted in
		recustocks.			the 2Q of 2013, further processed registration/
		Project Cost:			accreditation of additional capacities of 70.3 million
		Total Project Cost:			liters annually: Chemrez Technologies, Inc. (from 75
		Php 176,612,000.00			to 90 million liters), Pure Essence International, Inc.
		1110 170,012,000.00			(from 60 to 72 million liters), Mt. Holly Coco
		FY 2012 Approved			Industrial Co., Ltd. (from 50 to 60 million liters),
		Budget:			Tantuco Enterprises (from 30 to 60 million liters),
		Php 16,824,000.00			JNJ Oleochemicals, Inc. (from 60 to 63.3 million
		(FY 2012 cum:			liters)
		Php 88,568,000.00)			- Conducted sampling of esterified used vegetable oil
		FY 2013:			relative to the project entitled "Pilot Study on the
		Php 35,892,000.00			Perforance of Engines of Light Vehicles using 4%
		FY 2014:			Esterified Used Vegetable Oil"
		Php 13,140,000.00			- Launched the biofuel project with the University of
		FY 2015:			the Philippines Visayas Foundation Inc. (UPVFI)
		Php 19,506,000.00			entitled "Bioethanol Production from Macroalgae and
		FY 2016:			Socio-ecological Implications" in September 2013
		Php 19,506,000.00			
					2) Biofuels manufacturing plants inspected, monitored
					and accredited or endorsed
					- Conducted inspection/ site visit of two (2) biodiesel
					and sampling of CME for compliance to the PNS and
					monitoring under JAO 2008-1, Series of 2008
					2) IEC initiatives
					3) IEC initiatives
					- Conducted initial consultations among major

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
Project Title	Implementing Unit	Description	Objective/s	Outputs	stakeholders (oil companies, CME producers, and car manufacturers) relative to the proposal to increase the biodiesel blend mandate from 2% to 5% (B2 to B5)  - Launched the "B5 Testing on Public Utility Jeepneys" with the National Biofuel Board – member agencies and UP-National Center for Transportation Studies (UP-NCTS)  - Conducted "Regional Public Consultation for the Proposed Increase in Biodiesel Blend, Draft National Biofuels Program 2013-2030, and Biofuels Information, Education, and Communication (IEC) Plan" in Luzon (Metro Manila), Visayas (Palo, Leyte), and Mindanao (Davao City) with the National Biofuel Board-member agencies and concerned stakeholders - Presentation of Biofuels Updates and NBB Plan in the SPW of DOLE held on September 2013

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
4. Alternative Fuels for	Alternative Fuels and	The project aims to	The following items	1) Natural Gas Vehicle	As of 3Q 2013:
Transportation and	Energy Technology	reduce dependence on	are the project's	Program for Public	
Other Purposes	Division – Energy	imported oil, to	objectives:	Transport (NGVPPT)	NGVPPT:
	Utilization	contribute to energy	1) Program	(Duration: 2008-	Deliverable #1: Facilitate the deployment of 200 CNG
	Management Bureau	security through fuel	implementation on	2018)	buses by 2013
	(AFETD-EUMB)	diversification and to	the use of	- 200 commercially	1) Seven (7) accredited CNG bus operators
		provide more	Compressed	operating CNG bus	2) 61 CNG buses acquired by Accredited Bus Operators
		environment-friendly	Natural Gas in the	units by April 2014	- 34 units with valid franchise, one unit is non-
		alternatives to fossil	transport sector	- Two (2) units of	operational due to accident
		fuels.	initially through the	Modular CNG Stations	- 27 units awaiting issuance of franchise by LTFRB
			pilot project;	to be located in	3) Agreed in principle with LTFRB to facilitate the
		Project Cost:	2) Promotion of the	Biñan, Laguna and	processing of drop and substitution applications for
		Total Project Cost:	diversification of	Batangas City	the replacement of 68 diesel buses with new CNG
		Php 118,476,000.00	the country's fuel	- Annual Average	buses to complete the targeted 100 units 4) Secured commitment of accredited bus operators for
		FY 2012 Approved	resources in the transport sector;	Reduction of CO <sub>2</sub> Emission: 26,872	drop and substitution of 68 diesel-fed buses with
		Budget:	development of	Metric Tons	CNG-fed buses
		Php 9,597,000.00	standards;	Wethe folis	5) On-going negotiation of PNOC-EC and bus operators
		FY 2013 Approved	Carrying out		for the CNG Gas Sale and Pricing Mechanism
		Budget:	information,	2) AutoLPG	To the one due due and thomy modification.
		Php 20,340,000.00	Education, and	- Promoted adoption	Deliverable #2: Facilitate the establishment of CNG
		FY 2014:	Communication	of LPG as alternative	refueling stations to provide fuel for the CNG buses
		Php 20,440,000.00	(IEC) nationwide	fuel for transport	1) PNOC-EC has bidded-out the procurement of
		FY 2015:	on the use of	- Established a	equipment and civil works for the 2 modular CNG
		Php 24,942,000.00	Liquefied Petroleum	national data on the	stations
		FY 2016:	Gas in transport;	emission factor for	2) PSPC is in the final stage of notifying SC-38
		Php 24,942,000.00	and	transport sector	Consortium on the transfer of GSPA to PNOC-EC
			4) Research study on	using alternative	3) Target completion date of the 2 modular stations is
			the potential of	fuels	by April 2014
			hydrogen as energy	- Established a	
			source for the	monitoring and	Other related activities:
			transport,	evaluation protocol	1) Monitoring of the operation of the CNG Daughter
			industrial, and	for the use of auto-	Station
			commercial	LPG	2) On-going inter-agency coordination for the
			sectors/hydrogen.	- Annual Average	formulation of standards, policy and regulations: - CNG Cylinder Requalification – ongoing review of
				Reduction of CO <sub>2</sub> Emission: 223,390	ISO 19078 for Adoption as Philippine National
				Metric Tons	Standard on CNG Cylinder Requalification by DTI-
				INIGUIC FOLIS	BPS Technical Committee 6
				3) Electric Vehicles	- Exemption of HM Transport from the City
				(see List of FAPs on	Government of Manila ban of buses entering the City
				the E-Trike Project)	proper without garage within the City
					3) Renewal of Certificate of Accreditation of:
				4) Clean Development	- Green Star Transport Inc.
				Mechanism (CDM)	- BBL Transport Inc
					·
					Auto-LPG Program:
					1) 13,211 auto-LPG taxis and 218 dspensing stations

Project Title Implementing Unit Description Objective/s  Outputs  Accomplishments nationwide 2 Completed the "On-road Performance Test for Alternative Fuel Vehicles (auto-IRG fed and electric powered Jeopneys)* In cooperation with UP vehicle 3 Completed the process flowthart for the registration of LPG converted tax! 4 Procured 3 units of portable LPG point-leak detector equipment 5 Coordination with other government agencies on "Phase-out of old PUVs and Decongestion Program of Metro Martie," etc. 6 Conducted Capatible Units of Protection Inspectors on October 24.4.5. 20.13 at TESDA 7) Requested DTI-BPS (TC 44) for review of PNS 05:1983 of the Code of Practice for unitsitization of LPG in Vehicles 8) Conducted ICG on Alternative Fuels: Bauan, La Union and General Sanios City			·	nationwide
				<ul> <li>Alternative Fuel Vehicles (auto-LPG fed and electric – powered jeepneys)" in cooperation with UP-Vehicle Research and Testing Laboratory (VRTL)</li> <li>3) Completed the process flowchart for the registration of LPG converted taxi</li> <li>4) Procured 3 units of portable LPG point-leak detector equipment</li> <li>5) Coordination with other government agencies on "Phase-out of old PUVs and Decongestion Program of Metro Manila," etc.</li> <li>6) Conducted Capacity Building of Auto-LPG TWG members and Bureau of Fire Protection Inspectors on October 24-25, 2013 at TESDA</li> <li>7) Requested DTI-BPS (TC 44) for review of PNS 05:1983 of the Code of Practice for utilization of LPG in Vehicles</li> <li>8) Conducted IEC on Alternative Fuels: Bauan, La Union</li> </ul>

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
5. National Energy	Energy Efficiency and	This program aims to	The project aims to	Energy saving equivalent	As of 3Q 2013:
Efficiency and	Conservation Division	make energy efficiency	further strengthen and	to 10% of the annual	1) Information, Education and Communication (IEC)
Conservation Program	<ul> <li>Energy Utilization</li> </ul>	and conservation	promote energy	final energy demand	Campaign
	Management Bureau	(EE&C) a way of life.	efficiency and	consumption (2011 -	- Under the IEC campaign of the Bright Now!
	(EECD-EUMB)	Specifically, the	conservation in the	2030)	Program, EECD staff served as resource
		program aims to	commercial, industrial,		speakers/lecturers in fourteen (14) in-house
		cushion the impact of	residential, transport,	✓ Energy Savings =	seminars/briefings on power and fuel conservation
		increases in prices of	agricultural, and power	69,100 KTOE (3,455	with 1,270 attendees from the academe, households,
		petroleum products	industry sectors.	KTOE/yr)	commercial and industrial establishments and
		and electricity through		✓ Deferred Capacity =	government office buildings.
		the implementation of		6,780 Mwe (339	
		energy efficiency and		Mwe/yr.)	2) Recognition Award
		conservation		✓ CO2 Reduction =	- Don Emilio Abello Energy Efficiency Award
		measures, promote		178,980 KTCO2	(DEAEEA)
		cost avoidance/savings		(8,949 KTCO2/yr)	A total of 936 energy consumption reports of 117
		on fuel and electricity without sacrificing			companies were evaluated to determine the recipients of the 2013 DEAEEA.
		productivity, get firm			The awards will be given to outstanding companies
		savings commitments			and energy managers who have undertaken or are
		from identified sector			responsible in implementing energy efficiency and
		groups and help			conservation programs to achieve substantial savings
		protect the			in their energy consumption.
		environment.			35 ** ** ** **
					3) Implementation of the Government Energy
		Project Cost:			Management Program (GEMP)
		Total Project Cost:			With the implementation of Administrative Order Nos.
		Php 179,361,000.00			103, 110, 117 and 126, the government was able to
					achieve a savings of 233 GWH or Php 1.8 Billion in
		FY 2012 Approved			electricity and 7,524,783.94 liters of oil or P279
		Budget:			Million in transport fuel from September 2005 to May
		Php 12,302,000.00			2013 resulting from the reduction in annual
		(FY 2012 cum:			consumption of electricity and gasoline by 10%. In
		Php 75,509,000.00)			support to this policy, national government agencies
		FY 2013:			are required to regularly submit their consumption
		Php 28,852,000.00			reports to the DOE.
		FY 2014: Php 25,000,000.00			At the same time, certificates of verification on the
		FY 2015:			energy efficiency and conservation measures adopted
		Php 25,000,000.00			were issued in 25 complying government agencies
		FY 2016:			with total energy savings of 4,464,343.24 kWh which
		Php 25,000,000.00			is equivalent to Php28 Million for the year 2012.
					10 Squivalent to Fripzo Million for the year 2012.
					Seminar on Energy Efficiency and Conservation in
					Government Agencies was also conducted at Cebu
					Business Hotel, Cebu City on September 26, 2013
					with 120 energy conservation officers and
					administrative staff and followed by the conduct of
					energy pot check in four (4) regional government

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
					offices, namely: Department of Science and Technology; Department of Budget and Management; National Economic and Development Authority and Cebu Normal University.
					4) Energy Management and Energy Audit Services - Jointly with the Sugar Regulatory Administration's project on Energy Efficiency/ Conservation and Commercial Cogeneration in the Sugar Milling Sector, the Energy Audit Team conducted energy audit in the following sugar mills: Lopez Sugar Central and Central Azucarera dela Carlota, Inc
					5) ESCO Accreditation - Evaluated the application of Thermal Solutions, Inc. (TSI) for the renewal of ESCO Accreditation with DOE. TSI is a service-oriented company primarily engaged in industrial air-conditioning and refrigeration trading and services.
					6) UP-National Engineering Center (NEC) Seminar on Fuel Conservation and Efficiency in Road Transport  - The DOE in partnership with the University of the Philippines – National Engineering Center (UP-NEC) conducted the last series of the seminar on Fuel Efficiency and Conservation in Driving on July 19, 2013 at Sydney Hotel, General Santos City and Forum on Alternative Fuels and Vehicles Test and Energy Efficiency in Road Transport on August 16, 2013 at the Audio-Visual Room of the UP-National Engineering Center. The said activities were attended by 261 public utility drivers, government and private fleet drivers and operators and LGU drivers.
					The main objective of the seminar is to create awareness on the importance of fuel efficiency in the road transport sector with focus on the promotion of proper driving habits and vehicle maintenance.
					7) EU-Switch  - The ongoing EU-funded Switch-Asia Policy Support Programme in the Philippines aims to promote sustainable development, strengthen national and regional policy frameworks to shift towards more sustainable consumption and production patterns and resource efficiency in the Philippines.
					Presentation of the draft EE&C Roadmap of the

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
•					Philippines prepared by EU-Switch Asia Consultant, Mr. Mark Lister will be presented on November 15, 2013.
					Mr. Mark Lister will be presented on November 15,
					2013.

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
6. Oil Industry	Oil Industry	This program is	The main objective of	1) Verification of	As of 3Q 2013:
Deregulation	Management Bureau	basically earmarked to	the project is to	existence/operation of	A. Monitoring and Enforcement
Management Program	(OIMB)	ensure effective	successfully implement	new players;	- Conducted focused inspection in Zamboanga
		enforcement of	the Downstream Oil	2) Conduct of site visits	province on August 26-31, that includes Pagadian
		Executive Order 377	Industry Deregulation	for prospective	and Isabela cities and different municipalities of
		providing for the	Law.	storage for	Zaboanga del Sur and Sibugay
		smooth coordination		stockpiling;	
		among all government		<ol><li>Distribution of</li></ol>	B. Communication advocacies
		agencies concerned in		calibrating buckets to	- 04 July 2013 Activities that include the conduct of
		the implementation of		selected LGUs to	Multi-Sectoral Advocacy (MSA) Campaigns on Oil
		RA 8479. It will		check accuracy of	Industry. Pilot Testing on Retail Price Monitoring and
		provide guidance and		delivery of dispensing	administrative concerns
		assistance to new		pumps in gasoline	- 31 July Re: Preparatory activities for the conduct of
		industry participants,		stations;	MSA, co-production with radio and television, review
		undertake activities		4) Coordination meetings	and assessment of communication advocacy,
		that will contribute in		for the	feedback mechanism and schedule of liquidation of
		strengthening		implementation of the	funds
		consumer protection.		Gasoline Station	- 08 August 2013 Re: Arrangements for the MSA
		It will continually		Lending and Financial	- Conducted 8 MSA in the following areas:
		educate and inform the		Assistance Program	Zamboanga City, Cagayan de Oro City, Pampanga,
		public and key sectors		(GSLFAP);	Bulacan, Dumaguete, Cebu City, Calapan City,
		of society on the		5) Conduct of	Batangas City
		benefits of deregulation		management and	- Conducted 8 briefings for LGUs on LPP and LPG
		in the oil industry and		skills training for the	laws, rules and regulatins and actual hands-on
		provide technical		establishment and	calibration of dispensing pumps in gas stations
		support to the programs and activities		operation of gasoline stations;	C. Public/Private Sector Partnerships
		of the LPG and Liquid		6) Granting of low	Met with:
		Fuels Task Forces.		interest loans through	- TCCPA (3); NBB (2); Additive (1); Industry (2);
		Tuels Task Forces.		the Gasoline Station	Engine manufacturers (1); ASTI meetings (2);
		Project Cost:		Lending and Financial	TCPPF (2); Promulgated and adopted PNS for
		Total Project Cost:		Assistance Program	Transportation of Petroleum Products by Pipeline (27
		Php 142,921,000.00		(GSLFAP) to qualified	Aug); Review update PNS/FS 003:2006 Auto-LPG
		1116 112,721,000.00		applicants who wish	riagy, Review aparts 1 No/13 000.2000 riato El G
		FY 2012 Approved		to put up a gasoline	D. Other Support Activities
		Budget:		station business;	- IEC with the Academe: Conducted IEC in
		Php 9,908,000.00		7) Other coordination	International Electronics and Technical Institute in
		(FY 2012 cum.:		meetings/IEC to	San Pedro, Laguna on 25 September
		Php 83,324,000.00)		inform various	- OIMB Capacity Building: Attended consultative
		FY 2013:		stakeholders of the	workshop on Verification, Inspection and Sealing of
		Php 12,060,000.00		recent updates in the	Fuel Dispensers (02 Aug) at ITDI-DOST
		FY 2014:		rules and regulations	· · · · · ·
		Php 13, 295,000.00		governing the	
		FY 2015:		downstream	
		Php 17,121,000.00		petroleum industry	
		FY 2016:		(DPI);	
		Php 17,121,000.00		8) Strengthening and	
				Advancing a Favorable	

Market Environment through the Lifticient and Effective implementation of an LES increasing Program 9. LEC Steering Committee Meetings and other coordination meetings to enhance consumer of the Coordination meetings to enhance consumer (Integrated Approach):  10) Focused Inspection (Integrated Approach): 11) Communication Plan for the DOL - 2nd Phase activities development and implementation of a ComPlan: 12) Conduct of Activities on Facilities and Petolocum Products' Special Program Products' Special Progr	Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
	Project fille	Implementing Unit	Description	Objective/s	Market Environment through the Efficient and Effective Implementation of an LPG Industry Program (Safe LPG); 9) LPG Steering Committee Meetings and other coordination meetings to enhance consumer welfare; 10) Focused Inspection (Integrated Approach); 11) Communication Plan for the DOI - 2nd Phase activities relative to the development and implementation of a ComPlan; 12) Conduct of Activities on Facilities and Petroleum Products' Standards Development and Formulation; 13) Ad Materials/Press Releases; and 14) Seminars and	Accomplishments

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
7. Detailed Wind	Solar and Wind Energy	The project is targeting	Generally, the project	The project will enhance	As of 3Q 2013:
Resource Assessment	Management Division	40 sites in 20	aims to identify viable	the identification of viable	1) Micrositing
Project	<ul> <li>Renewable Energy</li> </ul>	provinces to be	sites for wind power	sites that are ready for	- Pampanga
	Management Bureau	accomplished within	development in the	the development and	- Nueva Ecija
	(SWEMD-REMB)	eight (8) years. The	country.	implementation of	
		project will commence		commercial wind power	2) Conducted monitoring
		in 2013.	Specifically, it aims to:	projects that can be at	- Brgy. Tagbac, Lubang, Occidental Mindoro
			1) Undertake and	both on-grid and off-grid	- Sitio Bliss, Brgy. Malasin, San Jose City, Nueva
		The DOE is	sustain the conduct	or on-shore and off-shore	Ecija
		jumpstarting a detailed	of detailed wind	areas thereby mitigating	- Brgy. East Poblacion, Pantabangan, Nueva Ecija
		wind resource	resource assessment	the adverse effect of	- Brgy. Fatima, Pantabangan, Nueva Ecija
		assessment activity in	in potential sites of	global warming through	
		selected areas with	the country	the reduction of FHF	
		potential resources and	2) Update the national	emissions.	
		no existing wind	wind database		
		development	containing resource	It will also create local	
		initiatives. The activity	data that are	capability that would	
		aims to address the	necessary in	eventually contribute to	
		gaps of the country's	planning, design and	the reduction of the costs	
		wind database which	implementation of	of developing wind power	
		would be utilized by	wind energy projects	projects in the country.	
		project developers/	3) Build local		
		investors in conceptualizing,	capability/ expertise on various activities		
		designing and	of wind resource		
		evaluating wind energy	assessment as well		
		projects.	as in the		
		projects.	development of wind		
		Project Cost:	power projects		
		Total Project Cost:	4) Offer to prospective		
		Php 39,182,000.00	wind developers the		
		1110 37,102,000.00	identified viable wind		
		FY 2013:	areas for commercial		
		Php 4,130,000.00	development and		
		FY 2014:	implementation		
		Php 5,255,000.00	pursuant to RA 9513		
		FY 2015:	pareaant to int you		
		Php 5,781,000.00			
		FY 2016:			
		Php 6,359,000.00			
		FY 2017:			
		Php 6,994,000.00			

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
8. Establishment of	Geoscientific Research	The project will be	This project aims to	Acquired scientific	As of 3Q 2013:
Technical Capability on	and Testing Laboratory	implemented for two	enable DOE-Oil and	equipment that will	<del></del>
Quality Testing of LPG	- Energy Research	(2) years, from 2013	Gas Section, GRTL to	establish the technical	The implementer submitted the status of the project's
Autogas as Alternative	Testing and Laboratory	to 2014.	be equipped to carry	capability and equip	procurement of equipment. Most of the equipment
Fuel	Services (GRTL-		out detailed physical	the DOE Oil and Gas	already have purchase orders are waiting delivery.
	ERTLS)	The project aims to	and chemical analyses	Section to conduct fuel	
	,	address the pressing	of the AutoLPG being	quality testing of	
		concerns on the Auto	supplied to the market	AutoLPG	
		LPG fuel quality in the	to ensure adherence to	2) Methods/ parameters/	
		Philippines. The DOE	the parameters set	protocols scientifically	
		laboratory has the	under the Bureau of	tested and validated	
		technical capability and	Product Standards	applicable for the	
		qualified analysts to	(BPS), DOE and	implementation of PNS	
		analyze the physical	Technical Committee	for AutoLPG	
		and chemical	on Petroleum Products	3) Manual of procedures	
		requirements of Auto	and Additives (TCPPA).	on optimum working	
		LPG but the laboratory	In doing so, quality	parameters for the	
		is not equipped with	and safe AutoLPG will	highly specialized	
		scientific equipment for	be available to the	AutoLPG tests using	
		the analysis.	public.	the prescribed	
		Procurement of		equipment	
		analytical equipment	Specific Objectives:	4) Strict compliance to	
		shall be used to ensure	The project intends to	ensure quality and	
		product compliance to	meet the following	safe AutoLPG	
		quality standards under			
		PNS/DOE QS	1) To procure/acquire		
		005:2005. The	scientific and		
		establishment of this	analytical equipment		
		technical capability	that will fully equip		
		would be the first of its kind.	the GRTL-DOE Oil		
		KING.	and Gas Section in the analysis of		
		Project Cost:	detailed chemical		
		Total Project Cost:	and physical		
		Php 23,800,000.00	compositions of		
		1116 23,000,000.00	AutoLPG.		
		FY 2013:	2) To validate the		
		Php 23,570,000.00	prescribed PNS		
		FY 2014:	international test		
		Php 230,000.00	methods set by BPS,		
		, ====,====	DOE and TCPPA for		
			the analysis of		
			AutoLPG		
			3) To build database		
			for Philippine		
			AutoLPG quality		
			parameters		
			4) To complement		

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
	gg	2 000.12 1101.1	DOE's program on the use of AutoLPG as alternative fuel		
			the use of AutoLPG		
			as alternative fuel		
			and to put in place the PNS set by the DOE, BPS and TCPPA		
			the PNS set by the		
			DOE, BPS and TCPPA		

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
9. Health, Safety,	Natural Gas	The project will be	Main Objective:	1) Hiring of qualified	*No submission (as of 27 November 2013)
Security and	Management Division	implemented for two	To fully develop	consultants contracted	
Environment (HSSE)	<ul><li>Oil Industry</li></ul>	and a half (2.5) years	standards and	out to undertake the	
Program for Natural	Management Bureau	starting April 2013 and	management programs	implementation and/or	
Gas Facilities in the	(NGMD-OIMB)	will end on September	on Health, Safety,	realization of the	
Philippines		2015.	Security, and	objectives of this	
			Environment (HSSE)	project proposal	
		The anticipated	for the existing and	2) Inventory and	
		increase in number of	incoming natural gas	accounting of local	
		projects for natural gas	facilities in the	and international	
		calls for an urgency to	Philippines.	HSSE best practices	
		establish an HSSE		on natural gas	
		standard and program	Specific Objectives:	facilities which can be	
		in support to the policy	1) To develop local	locally adopted in the	
		direction of the	standards for the	HSSE manual for	
		government. Gas	natural gas facilities	compliance of	
		industry networks and	(CNG station, LNG	operators of natural	
		their associated	terminal/ hub,	gas facilities	
		technologies are	regasification facility,	3) Established local	
		fundamentally	pipeline and other	standards for the	
		dependent on industry	ancillary facilities) in	natural gas facilities	
		standards to ensure	the Philippines	4) Drafted the HSSE	
		consistency and	2) To identify, assess,	manual covering but	
		continuity among all	manage and	not limited on	
		the various elements.	minimize HSSE risks	procedures, audit	
		Standards are used to	in natural gas	items, risk assessment	
		establish procedures	facilities during	and management,	
		and properties relevant	construction,	corrective/ preventive	
		to processes and	operation and	actions, emergency	
		requirements. The	maintenance	response programs for	
		Health, Safety,	3) To come up with a	stakeholders and	
		Security, and	HSSE manual	government regulators	
		Environmental	covering but not	and approval	
		standards to be	limited to the	5) Established and	
		established will provide	detailed procedures,	institutionalized HSSE	
		assurance in safety,	standards, audit	Management Team	
		increase efficiency in	items, risk	that will oversee the	
		operations, and	assessment and	continuous	
		strengthen the	management,	improvement of the	
		implementation of the	corrective/	natural gas facilities	
		regulatory function of	preventive actions	HSSE manual, plans	
		DOE, through NGMD, on the construction,	that will enable	and programs	
		The state of the s	proper	6) Drafted the	
		operation, and maintenance of	implementation/	Department Circular	
			management of	for approval that will institutionalized the	
		existing and incoming	HSSE programs by operators of natural	technical standards	
		gas facilities and		provided in the HSSE	
		ensured compliance of	gas facilities	provided in the HSSE	

Project Title Imp	lementing Unit Descriptio	on Objective/s	Outputs	Accomplishments
	safety in the fac	ilities 4) To have a	manual that would be	
	and operations v		the basis for	
	the gas chain.	institutionalizing the	enforcement and	
		technical standards	compliance among	
	Project Cost:	provided in the HSSE		
	Total Project Co		gas facilities	
	Php 6,872,000.0		7) Training needs	
	EV 0040	enforcement and	assessment report	
	FY 2013:	compliance of	highlighting the	
	Php 160,000.00 FY 2014:	operators/ owners of natural gas facilities	identified skills needed to effectively	
	Php 4,430,000.0		implement the HSSE	
	FY 2015:	inventory of local	standards and	
	Php 2,282,000.0		regulation for the	
	1119 2,202,000.0	HSSE best practices	natural gas industry	
		on natural gas	and matrix of	
		facilities that will	designed training	
		form part in the	program for the	
		HSSE manual	regulators	
		6) To organize a team	8) Training reports of	
		that enable continual	relevant trainings	
		improvement of the	participated on HSSE	
		HSSE standards and	standards and	
		system	regulation	
		7) To identify and	9) HSSE Implementation	
		design training programs that will	Plan and Program	
		effectively address		
		the needs and		
		implement a		
		continuous capacity		
		building for		
		regulators		

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
10. Capacity Building	Oil Industry Standards	The project will be	Objectives:	1) As a comprehensive	As of 3Q 2013:
on Regulatory and	and Monitoring	implemented for one	1) To support the	capacity and capability	
Technical Framework	Division – Oil Industry	(1) year.	conduct of	upgrading program, it	A Notice of Award was issued by BAC (resolution No.
for Pipeline Systems	Management Bureau		classroom-type	is expected that the	084) to Merritt Advisory Partners, Inc. in the amount of
	(OISMD-OIMB)	Through the project,	lectures and	OIMB staff shall:	Php 2,974,664.00, approved by Sec. Petilla on 05
		OISMD-OIMB	trainings from	a) Undergo a series of	September 2013. A Contract for Consultancy Services
		personnel will	experts coupled with	academic/ technical	between ODE-OIMB and Merritt Advisory Partners, Inc.
		participate in series of	field and on-site	trainings through	was signed on 04 October 2013.
		extensive courses and	exposures/ visits and	classroom-type of	
		technical trainings, site	hands-on	lectures/ seminars	1) Field Exposures and Technical Briefings
		visits and operations	experiences on the	b) Participate in field	- Visit to UP NIGS (meeting with Dr. Carlo Arcilla)
		hands-on as	design, operation	exposure and	- Familiarization/ Orientation of the existing
		introduction to	and regulation of	familiarizations	operation of Bonifacio Gas Corp. (LPG distribution,
		technical and	networked pipeline	exercises of pipeline	storage and pipeline network within Bonifacio Global
		regulatory concepts,	systems	systems	City)
		frameworks and actual	2) To improve the	c) Observe application	- Discussion with Makati City Engineer's Office on the
		field applications of	existing capacity of	of technical	available resources of the local government
		established pipeline	the DOE-OIMB to	standards and codes	mobilized and/or subsequently put in place in
		systems. Emphasis	address, implement	of practice to	response to the Bangkal/ FPIC incident
		shall be given on	and support the	existing pipeline	
		ensuring public safety	technical and	systems, both in the	2) Lecture Series
		and efficiency in	regulatory aspect for	Philippines and in	
		pipeline service guided	pipeline monitoring	selected countries	- Training Seminar on "Piping and Pipeline Integrity
		by acceptable technical	and regulation	known for operating	Management System to Comply ASME B31"
		standards and codes of	3) Draft policy	extensive pipeline	conducted by Handal Consulting & Training
		practice.	instruments and	systems for the	
			regulations	transport of	3) Case Study
		Project Cost:	supportive of	petroleum products	
		Total Project Cost:	pipeline	d) Establish	- To meet representatives of the following
		Php 5,000,000.00	development in the	membership to	institutions/ companies as part of the Case Study
			Philippines	professional	activity of the project (November 25-29, 2013): Thai
			4) Identification of and	organizations	Ministry of Energy, Thai Petroleum Pipeline Co., Ltd., Petroelum Institute of Thailand (PTIT), PTT Natural
			compilation of	2) Establish professional	
			relevant regulations and technical	relationships or	Gas Distribution Co., Ltd.
			standards for	network with experts, both technical and	
			pipeline design,	legal, through direct	
			construction,	meetings, orientations	
			operation and	or participation in	
			maintenance and	conferences and	
			code of practice.	seminars related to	
			Source of practice.	pipeline systems and	
				operations	
				3) Achieve improvement	
				in the office	
				equipment and	
				capability supportive	
				of the expanded role	

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
				of the OIMB  4) Design a working draft Philippine pipeline regulations including pipeline system  5) Design an IEC program and implementation support mechanism including approaches to encourage private sector investment or public-private partnership to expand pipeline systems in the country  As such, a core group of in-house pipeline experts will be formed from the OIMB aside from the generalists or support technical staff upon the completion of the project.	

## FY 2013: Ongoing Foreign-Assisted Projects

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
1. Philippine Energy	Asian Development Bank	The Philippine Energy	The current key	The components of	As of 3Q 2013 (as submitted by EUMB):
Efficiency Project (PEEP)	and GoP	Efficiency Project (PEEP)	objectives of the	PEEP are as	
		is a project of the	project are:	follows:	Completed processing the demand payments of
		Philippine Government	1) Retrofitting of about	Component 1.1:	Fumaco, Inc., JORM Environmental Services, Inc.,
		which is being	135 government	Retrofit of	Cleanway Technologies and DY Infotech with the
		implemented by the	Buildings with energy	Government Office	exception of Philips Electronics and Lighting, Inc. and
		Philippine Department of	efficient lighting	Buildings	Philippine Green Building Council relative to the
		Energy (DOE). It	systems (EELS) and	Component 1.2:	completion of the PEEP in June 2013
		involves a series of	the establishment of a	National	
		activities that aims to	model for large-scale	Residential Lighting	
		reduce electricity	implementation in the	Program	
		consumption in the	public sector;	Component 1.3:	
		residential and public	2) Distribution of 8.6	Public Lighting	
		sectors, reduce the peak	Million Compact	Retrofit Program	
		load power demand,	Fluorescent Lamps (CFLs) amongst	Component 1.4: Energy Efficiency	
		reduce health risk associated with residual	residential consumers	Testing and Lamp	
		mercury and kerosene	nationwide;	Waste	
		(in the off grid areas)		Management	
		and establish a	3) Successful	Component 2.2:	
		certification process for	demonstration of	Efficient Building	
		energy and	efficient street lights	Initiative	
		environmentally efficient	and traffic lighting in	Component 3:	
		commercial buildings.	local government	Communication	
		The Asian Development	units; and the establishment of a	and Social	
		Bank (ADB) is	model for	Mobilization	
		supporting the project	standardizing public	The current	
		by way of a loan and	lighting and large	composition of the	
		grant assistance. PEEP	scale implementation;	project	
		has a total approved	•	components is the	
		budget of US\$ 46.5M	4) Expansion of the	result of the	
		consisting of a loan	capacity of Lighting and Appliance Testing	reassessment and	
		component amounting to	Laboratory (LATL) to	re-evaluation	
		US\$ 31.1M, a grant	conduct efficiency	conducted by DOE	
		component amounting to	testing on a wider	on PEEP in the 2nd	
		US\$ 1.5M and Philippine	range of appliances	quarter of 2011	
		Government counter- part fund of US\$ 13.9M.	and the accreditation	which was approved by ADB	
		•	of the laboratory to	on 26 October	
		The Loan Agreement between the Philippine	ISO 17025;	2011 and by the	
		Government and ADB	5) Procurement of a	National Economic	
		took effect in May 2009.	Lamp Waste	Development	
		The International	Management Facility	Authority (NEDA)	
		Institute for Energy	(LWMF) and the	and the	
		Conservation (IIEC) was	establishment of a	Department of	
		contracted in March	business model for	Finance (DOF) on	

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		2010 to serve as Project	collection of lamp	28 October 2011.	
		Implementation Support	waste and the		
		(PIS).	operation of the facility;		
		The project			
		implementation period is	6) Establishment of an		
		extended up to March	efficient building rating system in the		
		2013 while the loan	Philippines for new		
		validity period is up to	and retrofitted		
		June 2013	buildings.		
		Total Project Cost:			
		(loan/grant/GoP):			
		Php 2,092,500,000			
		(US\$ 46.58M)			
		Loan: US\$ 31.10M			
		(Php 1,399.5M)			
		Grant: US\$ 1.50M			
		(Php 67.5M)			
		GoP: US\$ 13.9M			
		(Php 625.5M)			

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
2. Electric Cooperative	World Bank – Global	ECSLRP involves the	ECSLRP aims to achieve	The components of	As of 3Q 2013:
System Loss Reduction	Environment Facility	following:	significant and sustained	ECSLRP are as	
Project (ECSLRP)	(GEF)	1) Use of IMC to attract	energy efficiency	follows:	1) EC-Partial Credit Guarantee (PCG) Program
		private investors to	improvements in ECs in	1) Partial Credit	- For this period, there are 17 existing booked EC
		manage and operate	order to provide current	Guarantee	accounts under the ECPCG Program with total loan
		eligible ECs under	and prospective viable	Program	amount of Php 2.212 billion and total loan releases
		long-term,	EC customers with	2) Capacity	amounting to Php 1.739 billion (implementer
		performance-based	reliable and least-cost	Building	provided breakdown of the stated amounts). In
		contracts, and to	power supply over the		addition to these accounts, there are 3 committed EC
		mobilize private	long term through		accounts in the Program namely PALECO, BOHECO II,
		finance without	removal of barriers to		and AKELCO, representing more loan amount of Php
		recourse to the	entry of private sector		532.90 million (implementer provided breakdown of
		government;	investments in system		said amount). These ECs have already signed the
		2) Facilitate ECs' access	loss reduction.		loan and guarantee agreements but have yet to draw
		to affordable			their loans as said ECs are either complying with the
		commercial loans			documentary requirements of NEA or waiting ERC
		through the provision			approval of their CAPEX application.
		of partial credit			2) Consolts Building and Insulance taking Company
		guarantee coverage			2) Capacity Building and Implementation Support
		(up to 80%); and			Program  For the guester anding 31 September 2013, DOF
		3) Provides capacity			- For the quarter ending 31 September 2013, DOE
		building and technical assistance to support			engaged a consultant who will prepare the Borrower's Completion Report on ECSLRP. Moreover,
		the implementation of			DOE sponsored the Training on Small Area Load
		the PCG Program such			Forecast on 3-6 September 2013 at Dusit Thani Hotel
		as technical			in Makati City. Said training was attended by 30
		assistance to key			participants from 14 ECs, DOE and NEA.
		stakeholders (DOE,			participants from 11 203, DOE and NEA.
		NEA, ECs, ERC,			
		LGUGC and financial			
		intermediaries) to			
		ensure and facilitate			
		project			
		implementation,			
		monitoring and			
		evaluation.			
		The project			
		implementation is 9			
		years (November 2004			
		to 31 December 2012,			
		extended to 31			
		December 2013)			
		Total Project Cost:			
		(grant):			
		US\$ 12M			

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
3. Philippine Industrial	UNIDO	The project will train	The project aims to	The components of	As of 3Q 2013:
Energy Efficiency Project	and Co-financing of the	Filipino national experts	introduce ISO 50001	PIEEP are as	- Jointly with the Department of Trade and Industry
(PIEEP)	DOE, Land Bank, Bank	in both the optimization	energy management	follows:	(DTI) and the United Nations for Industrial
	of Philippine Islands and	of steam, compressed	system along with	1) Energy	Development Organization (UNIDO), six (6)
	Development Bank of	air and pumping	system optimization	Management	Industrial Users and Experts Training on Pumping
	the Philippines	systems and in energy	approach for	(Integration of	Systems Optimization, Steam Systems Optimization
		management while at the same time	improvement of	Energy	and Compressed Air Systems Optimization were
		introducing these	industrial energy efficiency of the	Management System/	conducted in Cagayan de Oro City, Bulacan, Laguna and Pampanga with 231 participants from industrial
		concepts to participating	Philippines.	ISO50001)	associations, professional organizations, equipment
		industrial enterprises	Trimppines.	2) Systems	vendors, energy service companies and energy
		that will directly benefit		Optimization	consultants, universities and government agencies.
		from the project		(Steam,	g
		implementation. Outputs		Compressed-air,	The project aims to improve energy efficiency in the
		will include greenhouse		Pumping	industrial sector through the provision of
		gas emission reductions		Systems)	tools and capacity building on energy management
		from savings in the use		3) Enhancement of	system and energy system optimization. It
		of fuel and electricity		Financial	introduced, among others, the application of ISO
		attributable to systems		Capacity (EE	50001 Energy Management Standard framework to
		improvements		Financial	selected industrial sectors such as chemicals, food &
		undertaken by the		Criteria)	beverage, iron & steel, and pulp & paper.
		participating industrial		4) Project	
		enterprises. The project will also build capacity		Management 5) Monitoring and	
		for industries in order to		Evaluation	
		introduce an energy		Lvaluation	
		management standard –			
		ISO 50001 – an			
		international energy			
		management standard			
		published early 2011.			
		Compliance with this			
		new ISO standard will			
		provide an incentive for			
		continuous attention to			
		improved energy use			
		efficiency.			
		Project Cost			
		Project Cost: Total Project Cost:			
		US\$ 27,166,065.00			
		03\$ 27,100,000.00			
		UNIDO-GEF:			
		US\$ 3,166,065.00			
		Co-financing:			
		US\$ 24,000.000.00			
		(National Commercial			
		Banks – US\$			

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		20,000,000.00; Department of Energy – US\$ 4,000,000.00)			
		Department of Energy –			
		03\$ 4,000,000.00)			

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
4. Alliance for Mindanao	Fund Source USAID, Winrock International, SunPower Corporation and DOE	AMORE III is a partnership program among USAID, Winrock International, SunPower Corporation and DOE that supports the Philippines' Energy Sector Reform Agenda on rural electrification using renewable energy. As such, DOE provides policy direction, monitoring and supplemental co-shared funds on its off-grid rural electrification projects sourced-out from Energy Regulations No. 1-94, as amended.  The project will be implemented from October 1, 2009 to September 30, 2013.  Total Project Cost: US\$ 6,000,000.00	The project aims to contribute to the improvement of the quality of life of 28,813 households and about 59,527 students in selected regions in the Philippines through:  1) Improved quality and continuous access to lighting at household level through renewable energy;  2) Better family health conditions in terms of less cases of waterborne diseases; and,  3) Improved school performance of children in terms of higher achievement scores.	Components  1) Households with access to solar PV technology and micro hydro power - 8,867 households including those given through micro hydro power 2)  Households/Individ uals with access - 19,946 households 3) Schools electrified through solar PV technology - 174 schools, equivalent to about 59,527 students	* No submission (as of 27 November 2013)  * No submission (as of 27 November 2013)

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
5. Philippine-Japan	Japan Grant Aid	The project shall	The project aims for the	Solar PV	As of 3Q 2013:
Project for Introduction		demonstration of the	adaptation to and	Generating Facility	
of Clean Energy Using		effectiveness and	mitigation of climate		1) Identification of four (4) new sites
Solar Power Generating		efficiency of net	change as well as on the Improvement of access		- Lung Center of the Philippines - Rizal Park
System		metering-connected solar photovoltaic power	to clean energy		- National Power Corporation in Bulacan Area
		systems under Republic	to clean energy		- SM Mall of Asia Parking Lot
		Act No. 9513			
					2) Conducted site investigation in 4 sites
		Total Project Cost: (grant): 600 Million Yen			
		(grant): 600 Million Yen			

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
6. Market	Asian Development Bank	Energy efficient electric	Objectives:	•	As of 3Q 2013:
Transformation through	·	vehicles are a new	- On a macro-level,		1) Loan agreement between DOF and ADB was signed
Introduction of Energy		technology with the	project aims to reduce		on 27 September 2013
Efficient Electric Vehicle		promise to transform the	transport sector's		2) Tripartite MOA among DOE-DOF-LBP is being
Project		way energy is used by	annual petroleum		finalized
		today's internal	consumption by 2.8%		3) Project marketing and briefing with LGUs
		combustion engine (ICE)	(based on 20 million		4) Project Implementation Consultant (PIC)
		vehicles. For net energy	barrels per year		procurement
		importing countries,	consumption in 2010)		- Technical evaluation completed
		such as the Philippines,	or an equivalent of		- Financial proposal evaluated on 18 September
		electric vehicles can	89.2 million liters per		2013
		dramatically reduce the	year; and,		5) Procurement of E-Trikes (Package 1:3,000 units)
		country's dependence on	- Avoided CO <sub>2</sub> emissions		- Opening of Technical Proposals submitted by the
		imported energy	is estimated at		four (4) bidders on 22 August 2013
		resources, which in turn	259,008 tons per year		
		will reduce short term	by shifting to 100,000		
		price volatility and	electric tricycles.		
		improve long term			
		energy security. This	Impact Outcome:		
		technology has also	The impact of the		
		created the opportunity	project will be		
		to transition into an	sustainable energy use		
		environment, where	by the transport sector,		
		vehicles no longer	and the outcome will be		
		generates harmful air	the transformation of		
		and noise pollution and	the tricycle industry		
		can be powered by	through large-scale		
		indigenous renewable	adoption of locally made		
		energy resources such	energy-efficient e-trikes.		
		as solar, hydropower or			
		geothermal.	Outputs:		
			The project has five		
		Project Cost:	outputs:		
		US\$ 504 million	1) Complete e-trike		
		(Php 21.672 billion)	units delivered to		
			LGUs accompanied by		
		ADB Loan:	a standard 5-year		
		US\$ 300 million	warranty and after		
		(Php 12.9 billion)	sales services;		
		a== .	2) Lithium-ion battery		
		CTF Loan:	supply chain with		
		US\$ 100 million	associated support		
		(Php 4.3 billion)	services established;		
		Carlt Carlata	3) Solar charging		
		Gov't Counterpart:	stations pilot on		
		US\$ 99 million	selected areas;		
		(Php 4.257 billion)	4) Material recovery		
			from internal		

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		CTF Grant:	combustion engine		
	!	US\$ 5 million (additional	(ICE) tricycles and		
	!	US\$ 4 million out of	used batteries; and,		
	!	the US\$ 5 million CTF	5) Successful		
	!	Grant shall be allocated	communication, social		
	!	for Solar Charging	mobilization, and		
	!	Facilities)	technology transfer.		
	·	(Php 215 million)			
	·		Output 1: E-Trike units.		
	!	<u>Duration:</u>	The project will		
	!	Five (5) years	deliver 100,000		
	!		complete E-Trike units		
	·	Schedule of	to selected cities and		
		<u>Implementation</u>	areas to replace ICE		
		Yr. 1: 3,000 units	tricycles. The supply		
		Yr. 2: 17,000 units	contract will include a		
		Yr. 3: 30,000 units	standard warranty on		
	·	Yr. 4: 30,000 units	mechanical and		
	·	Yr. 5: 20,000 units	technical performance		
	·		of the E-Trikes and		
	·		after-sales services.		
	·		The risk performance		
	·		period (5 years or		
	·		80,000 km whichever		
	·		comes first) will be		
	·		borne by the battery		
	·		manufacturer. All E-		
	·		Trikes will be clearly		
	·		marked with a		
	!		"battery supplied by" (similar to "Intel		
	·		Inside" in computers)		
			label to make		
	!		consumers aware of		
	!		the brand and		
	!		obligations of the		
			suppliers under the		
			project.		
			p. 9, 50.		
	!		Output 2: Battery supply		
			chain. The project will		
			initiate creation of a		
			lithium-ion battery		
			supply chain in the		
			Philippines by creating		
			an initial substantial		
			market. The		
			transformation		

Project Title Fu	ind Source	Description	Objective/s	Components	Accomplishments
			objective is to attract		
			reputable		
			international suppliers		
			that have supplied at		
			least one large global		
			vehicle brand.		
			Output 3: Solar charging		
			stations. The project		
			will establish (1) on a		
			pilot basis five off-grid		
			solar charging		
			stations – 200		
			kilowatts each –		
			either as a cluster or		
			stand-alone and (2)		
			certain number of grid		
			connected charging		
			station. The solar		
			charging stations will		
			be sufficient to		
			support the electricity		
			needs of 1,000 E-		
			Trikes. Some pilot		
			solar charging		
			stations will be in		
			island locations that		
			are easily accessible		
			and will adopt large		
			number of E-Trikes		
			under the project, for		
			example, Puerto Princesa. In all areas,		
			certain number of		
			grid-connected		
			charging stations will		
			be included to reduce		
			the "range anxiety" of		
			drivers. Private sector		
			will be encouraged to		
			invest in solar		
			charging stations and		
			in some cases, where		
			feasible, the		
			aggravated demand		
			of the drivers will be		
			converted into an		
			equivalent 5-year		

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
			power purchase		
			agreement to reduce		
			off-take of potential		
			private investors. In		
			addition, existing		
			electric utilities will be		
			encouraged to		
			establish charging		
			stations as		
			commercial operation.		
			Output 4: Material		
			<i>Recovery.</i> The Project		
			will ensure that		
			mechanism for the		
			collection and disposal		
			of existing tricycles to		
			be replaced with the		
			E-Trikes supplied		
			under the Project in		
			each participating city		
			or municipality (a)		
			follows the		
			requirements under		
			the CDM guidelines of United National		
			Framework		
			Convention on		
			Climate Change		
			(UNFCCC); and (b) is		
			acceptable to DOE,		
			ADB and the		
			respective LGU. Used		
			batteries (lead-acid		
			ones from ICE		
			tricycles and lithium-		
			ion ones from E-		
			Trikes) will also be		
			recovered.		
			Output 5.		
			Communication,		
			social mobilization,		
			and technology		
			transfer. All		
			stakeholders will be		
			educated about the		
			project – its benefits,		

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
			technical parameters,		
			costs, and market		
			potential of E-Trikes.		
			This includes specific training of the drivers		
			on use and		
			maintenance of E-		
			Trikes and technical		
			training to other		
			stakeholders to develop local human		
			resources to support		
			local industry		
			development.		

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
7. Mini-Hydropower	Japan International	The Provincial	The main objective is	Project Activities:	As of 3Q 2013:
Development Project in	Cooperation Agency	Government of Ifugao	the construction and		
the Province of Ifugao		(PGI) has a pending	development of	1. Review the	The project implementer attended the tender opening
		application for the	proposed Likud	feasibility study,	and contract signing in Japan.
		development of	Hydropower Project to	engineering	
		proposed Likud	sustain Rice Terraces	design, plans,	
		Hydropower Project.	Conservation Fund and	drawings, and	
		Since the LGU of Ifugao	Prevent Removal of the	preparation of	
		has no financial and	Ifugao Rice Terraces	bidding	
		technical capability to	from the List of the	documents in	
		implement the project	UNESCO World Heritage	cooperation with	
		and as no concrete plans	in danger.	JICA;	
		where to get fund for	_	2. Facilitate the	
		the implementation of	The specific objectives of	issuance of	
		said project, the	the project are as	necessary	
		assistance of JICA,	follows:	permits and	
		through this project,		contract relative	
		would achieve the	1. To further develop the	to the	
		purpose of preserving	technical capability of	development of	
		the Rice Terraces,	HOEMD staff in the	project;	
		provide job	preparation and	3. Conduct of	
		opportunities, and help	evaluation of	monitoring	
		stabilize the power	comprehensive	activities during	
		supply in the area.	Feasibility Study as	civil	
			well as the vasic and	construction,	
		Project Cost:	detailed design of	installation and	
		DOE:	Civil Structures and	commissioning	
		Php 1,329,000.00	Electro Mechanical	of Electro	
		JICA:	Equipment;	Mechanical	
		US\$ 3,934,000.00	2. To develop technical	Equipment;	
		T. 505 W	skills in the	4. Study tours and	
		The DOE will provide	supervision and	trainings for	
		necessary counterpart	monitoring of ongoing	HOEMD .	
		personnel for the project	construction of	personnel on	
		including the office	hydropower projects	hydropower	
		space for the dispatched	in the country;	technology;	
		expert.	3. To accelerate and	and,	
		JICA, on the other hand,	promote the	5. Conduct an extensive IEC	
			development of		
		will provide the following inputs:	hydropower resources in the province of	program for all stakeholders to	
		1. Dispatch of expert to	If the province of Ifugao; and,	achieve	
		the Philippines	4. To encourage the	sustainability of	
		2. Training and study	Municipal LGU's and	hydropower	
		tour abroad	the private sector to	projects.	
		3. Project promotion	actively participate in	projects.	
		meeting or seminar in	the development of		
			hydropower resources		
		the Philippines	nyaropower resources		

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
,			in the province of Ifugao.		
		The project will be implemented from February 2013 to November 2015.	Ifugao.		
		implemented from	S		
		February 2013 to			
		November 2015.			

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
8. Mini-Hydropower	Japan International	With the government's	Generally, the project		As of 3Q 2013:
Development Project in	Cooperation Agency	thrust of accelerating	aims to study the		
the Province of Isabela		hydropower	potential as to the		The project implementer attended the tender opening
		development, the	technical feasibility and		and contract signing in Japan.
		potential of hydropower	economic viability of		
		along existing irrigation	hydropower projects		
		systems throughout the	along irrigation canals		
		country is being	administered by the		
		envisioned as a major	National Irrigation		
		source for small	Administration (NIA) to		
		capacities. And in the	support the hydropower		
		light of the	development program of		
		implementation of the	the DOE and help attain		
		National Irrigation	its "Renewable Energy		
		Sector Rehabilitation and	Policy Framework"		
		Improvement Project	target.		
		(NISRIP) by the National			
		Irrigation Administration	Specifically, the project		
		(NIA) covering the	aims to:		
		period 2012 to 2018, a			
		parallel study to	1. Preparation of a study		
		determine the	to determine the		
		hydropower potential of	feasibility of		
		the 39 irrigation systems	hydropower		
		as well as the selection	development in		
		of the most feasible sites	irrigation systems		
		and the construction of a	throughout the		
		demonstration or pilot	country;		
		plant was deemed	2. To strengthen the		
		feasible and	technical capability of		
		recommended.	the HOEMD staff in		
			the conduct of		
			hydropower resource		
		Project Cost:	assessment and the		
			preparation of		
		Phase I	feasibility study that		
		DOE:	will also enhance their		
		Php 198,000.00	capability to evaluate		
		JICA:	hydropower projects		
		US\$ 25,000.00	technically, financially		
			and economically;		
		Phase II	3. To accelerate		
		DOE:	hydropower energy		
		PHP 814,000.00	development in the		
		JICA:	Philippines to ensure		
		US\$ 464,000.00	energy security		
		Db 111	towards energy self-		
		Phase III	sufficiency;		

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		DOE:	4. To acquire technical		
		Php 609,000.00	capability in the		
		JICA:	supervision and		
		US\$ 640,000.00	monitoring of the		
			implementation and		
		Phase IV	construction of a		
		DOE:	hydropower plant;		
		Php 1,640,000.00	5. To acquire or enhance		
		JICA:	skills in the Operation		
		US\$ 5,124,000.00	and Management of		
		The project will be	hydropower system installed along		
		implemented from	irrigation canal; and,		
		January 2013 to	6. To promote		
		December 2017.	hydropower		
		Becommen 2017.	development scheme		
			along irrigation		
			facilities.		
			Outputs:		
			1. Pre-feasibility,		
			feasibility and detailed		
			studies of hydropower		
			sites along irrigation		
			systems nationwide		
			2. Database of potential		
			and feasible		
			hydropower		
			development sites		
			along National		
			Irrigation Systems of the country		
			3. One (1) Hydropower		
			Demonstration Plant		
			along a selected		
			irrigation canal		
			igation canai		