

FY 2014: Ongoing Locally-Funded Projects
As of 3rd Quarter 2014

Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
1. Detailed Resource Assessment of Low Enthalpy Geothermal Areas	Geothermal Energy Management Division – Renewable Energy Management Bureau (GEMD-REMB)	<p>The project will be implemented in four (4) years starting 2011.</p> <p>The project is related to the locally-funded project entitled "Resource Assessment of Low Enthalpy Geothermal Resource in the Philippines", which started in 2007 until 2011 but was terminated in 2009 due to budget constraints.</p> <p>The project will focus on three (3) potential geothermal areas previously identified for further exploration:</p> <ol style="list-style-type: none"> 1. Banton Island, Romblon 2. Balut Island, Davao del Sur 3. Maricaban Island, Batangas <p><u>Project Cost:</u> Total Project Cost: Php 63,046,454.00</p>	<p>The project aims to conduct a detailed assessment of three (3) potential low enthalpy geothermal areas identified in previous field appraisals particularly for power generation application in the remote areas hosting the resource. These resources may be developed for power generation, and yield other uses in the tourism and agricultural sector.</p>	<ol style="list-style-type: none"> 1) Identify the factors needed in the development of low enthalpy geothermal resources for power generation that will serve as the template for future similar projects; 2) Additional geoscientific data gathered on the Philippine low-enthalpy geothermal resources; and, 3) By the end of the geological, geochemical and geophysical surveys, drilling targets and the drilling of slim holes should be done on the most promising geothermal area. 	<p>As of 3Q 2014:</p> <ol style="list-style-type: none"> 1. Resolution of support issued on September 1, 2014 by the municipality of Tingloy, Batangas 2. DDCP have conducted the inception workshop/technical presentation to DOE staff on Aug. 19, 2014 3. Contract-out Slimhole Drilling Services was awarded to DDCP on August 4, 2014 4. FEDS have submitted the Final Resource Assessment and Geothermal Modeling in Maricaban Island on July 31, 2014. 5. Issuance of NOA and NTP to Diamond Drilling Corp. of the Phil. (DDCP) for the Contract-Out Slimholw Drilling Services on July 14 and 28, 2014, respectively. 6. BAC has approved the Resolution recommending for the Approval by the Secretary the Award of Contract thru Public Bidding the Procurement of Services for the Contract-out Slimhole Drilling Service to Diamond Drilling Corp. of the Philippines (DDCP) on June 19, 2014 7. Submitted the Final Resource Assessment and Geothermal Modelling in Banton and Balut Islands on May 30, 2014. 8. Completed Contract-out services for integrated geoscientific survey by FEDs in the three (3) candidate areas:

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		FY 2012 Approved Budget: Php 20,288,000.00 (FY 2012 cum: Php 1,403,000.00) FY 2013 Approved Budget: Php 10,144,000.00 (FY 2013 (BP 202): Php 30,438,000.00) (FY 2014 (BP 202): Php 30,220,000.00)			Banton, Balut and Maricaban Islands on April 16, 2014. 9. Awarded the Contract-out Service for Integrated Geoscientific Survey in Maricaban Island to FEDS Energy Resources and Development Service Inc. on Dec. 13, 2013 10. Awarded the Contract-out Service for Integrated Geoscientific Survey in Balut and Banton Islands FEDS Energy Resources and Development Service Inc. on May 31, 2013 11. Establishment of a Work Program after FEDS conducted an inception workshop on 23 December 2013. The tentative schedule for geoscientific survey will commence on 10 February 2014. To date, DDCP's has already acquired CNC and other relevant permits. Drilling rig is scheduled to mobilize on the 3 rd week of November, 2014.

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2. Household Electrification Program (HEP) in Off-Grid Areas Using Renewable Energy	Solar and Wind Energy Management Division – Renewable Energy Management Bureau (SWEMD-REMB)	<p>The project will be implemented in seven (7) years in line with the objective of achieving a 90 percent household electrification level by 2017.</p> <p><u>Project Cost:</u> Php 111,799,655.00 (PV-SHS) Php 17,000,000.00 (Micro-hydro)</p> <p><u>Project Duration:</u> April 2014-April 2015 (PV-SHS) July 2014-December 2015 (Micro-hydro Power System)</p>	<p>The HEP serves as one of the strategies of the National Government to provide house lighting in off-grid sitios which cannot be viably connected to the conventional grid by the distribution utilities or electric cooperatives. With about 4 million potential house connections to be energized until year 2017, the HEP is expected to augment the rural electrification program target of realizing 90% house connection-level electrification by 2017.</p> <p>The HEP involves the energization of off-grid households using mature renewable energy technologies such</p>	<ol style="list-style-type: none"> 1) Institutionalize community organizing through enhanced capability of Barangay Power Associations (BAPA) in project management and operation and maintenance of RE systems; 2) Rehabilitate in-operational RE installations; and, 3) Extend services to scattered households in far flung sitios. 	<p><u>As of 3Q 2014:</u></p> <ol style="list-style-type: none"> 1) Installed 2,942 Solar Home Systems under Amended HEP 2011 (92% completed) and 1,734 Solar Home Systems under HEP 2012 – 2nd Batch (51% completed). 2) Finalized the list of 3,200 household beneficiaries for energization under Amended HEP 2011; 3,400 household beneficiaries for energization under HEP 2012 – 2nd batch; and 6,900 household beneficiaries for energization under HEP 2013. Dispatch Orders for the same were issued to its respective contractors. 3) Conducted three (3) solar photovoltaic technology technicians training for the beneficiary LGUs, DUs and ARECs under HEP 2013. 4) Facilitated the issuance of Procurement Contract and the corresponding Notice to Proceed for HEP 2014 – Lot 2, composed of 6,342 household beneficiaries. 5) Facilitated the finalization of site beneficiaries for the Photovoltaic Street

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			<p>as photovoltaic solar home systems (PV-SHS), photovoltaic streetlights and micro-hydro systems.</p> <p>While 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 systems.</p>		<p>Lighting Project (932 units) in typhoon Yolanda Devastated Municipalities and endorsed the same to the Contractor.</p> <p>6) Facilitated the processing of the Memorandum of Agreement between the Department and concerned ARECs for the implementation of micro-hydro projects in Palawan and Negros Occidental.</p>

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3. Detailed Wind Resource Assessment Project (WRAP)	Solar and Wind Energy Management Division – Renewable Energy Management Bureau (SWEMD-REMB)	<p>The project is targeting 40 sites in 20 provinces to be accomplished within eight (8) years. The project commenced in 2013 and will end in 2020.</p> <p>The DOE is jumpstarting a detailed wind resource assessment activity in selected areas with potential resources and no existing wind development initiatives. The activity aims to address the gaps of the country's wind database which would be utilized by project developers/ investors in conceptualizing, designing and evaluating wind energy projects.</p> <p><u>Project Cost:</u> Total Project Cost: Php 39,182,000.00</p> <p>FY 2013:</p>	<p>Generally, the project aims to identify viable sites for wind power development in the country.</p> <p>Specifically, it aims to:</p> <ol style="list-style-type: none"> 1) Undertake and sustain the conduct of detailed wind resource assessment in potential sites of the country 2) Update the national wind database containing resource data that are necessary in planning, design and implementation of wind energy projects 3) Build local capability/ expertise on various activities of wind resource 	<p>The project will enhance the identification of viable sites that are ready for the development and implementation of commercial wind power projects that can be at both on-grid and off-grid or on-shore and off-shore areas thereby mitigating the adverse effect of global warming through the reduction of FHF emissions.</p> <p>It will also create local capability that would eventually contribute to the reduction of the costs of developing wind power projects in the country.</p> <p>40 identified sites: 1) Nueva Ecija (10 sites) 2) Nueva Vizcaya (4 sites) 3) Pampanga (7 sites)</p>	<p><u>As of 3Q 2014:</u></p> <ol style="list-style-type: none"> 1) Conducted on-site monitoring and maintenance of three (3) meteorological masts (met-masts) in the following sites: <ul style="list-style-type: none"> • Brgy. Malasin, San Jose City, Nueva Ecija; • Brgy. Fatima, Pantabangan, Nueva Ecija; and • Brgy. Poblacion East, Pantabangan, Nueva Ecija. 2) Troubleshooting of two (2) met-masts installed in the Province of Nueva Ecija. 3) Ongoing permitting for three (3) candidate sites for the installation of met-masts. 4) Ongoing procurement of one (1) unit of met-mast and one (1) lot of office equipment and supplies. 5) Processing of Amendment to the Memorandum of Agreement (AMOA) with Central Luzon State University (CLSU) to provide additional funds for the decommissioning, refurbishment, transfer, installation and re-commissioning of three (3) met-masts in the Province of Nueva Ecija.

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		Php 4,130,000.00 FY 2014: Php 5,255,000.00 FY 2015: Php 5,781,000.00 FY 2016: Php 6,359,000.00 FY 2017: Php 6,994,000.00	assessment as well as in the development of wind power projects 4) Offer to prospective wind developers the identified viable wind areas for commercial development and implementation pursuant to RA 9513	4) Bulacan (2 sites) 5) Ifugao (5 sites) 6) Kalinga (5 sites) 7) Bohol (2 sites) 8) Samar (5 sites) Expected outputs: 1) Installation of one (1) met-mast 2) Maintenance of three (3) met-masts; and, 3) Collection and processing of wind data.	6) Provided assistance to ADB's Quantum Leap in Wind Power Development in Asia and the Pacific (QLW) in the Processign of necessary permits / agreements required in the installation of met-masts in the following areas: <ul style="list-style-type: none"> • Nasugbu, Batangas; • San Isidro, Northern Samar; • Kananga, Leyte; • Cuiasi, Antique; and • Guimbal, Iloilo. 7) Processing of Memorandum of Agreement (MOA) with ADB for the implementation of wind measurement campaign under the QLW Project. The DOE, through the WRAP project, will assume the sustainance of the campaign in four (4) areas nationwide after the conclusion of the QLW Project in 2015.

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4. Biofuels Program	Biomass Energy Management Division – Renewable Energy Management Bureau (BEMD-REMB)	<p>This project aims to promote the use of biofuels (biodiesel and bioethanol) as cleaner alternative fuel, develop the national biofuels development plan, to conduct techno-economic and viability study for expanded utilization of biodiesel (power generation, marine transport and industries) and to conduct vehicle performance testing for higher biofuel-blends and resource assessment of other viable biofuel feedstocks.</p> <p><u>Project Cost:</u> Total Project Cost: Php 176,612,000.00</p> <p>FY 2012 Approved Budget: Php 16,824,000.00 (FY 2012 cum: Php 88,568,000.00) FY 2013:</p>	The project aims to implement the Biofuels Law, Biofuels Manufacturing Plants Inspection and Monitoring and to conduct Sectoral Meetings, Consultations and IEC Activities.	<p><u>Expected Outputs for 2014:</u></p> <ol style="list-style-type: none"> 1) Status/Updates on various biofuels and biomass for existing facilities and proposed projects including issuance of Notice to Proceed; 2) Promote biofuels program; 3) Data/Information on the effect of higher biofuel blends using brand new test vehicles; 4) Data/Information on the utilization of biofuel using alternative feedstock; 5) Promote biogas technology and produce skilled biogas technician in Mindanao area; 6) Information on new/emerging biofuel technologies; and, 7) Purchase of office equipment, 	<p><u>As of 3Q 2014:</u></p> <p>A. Continuing conduct of monitoring, inspection / site visit and evaluation of existing and proposed biofuels / biomass projects and facilities nationwide.</p> <ol style="list-style-type: none"> 1. 21 Biofuels Production Facilities / Projects: <ul style="list-style-type: none"> • Accredited: Biodiesel – 11 Bioethanol – 5 • Registered with Notice to Proceed: Bioethanol – 5 2. 67 Biomass Projects / 1 Pending Application 3. 22 Biodiesel and 7 Bioethanol Facilities were inspected and monitored for compliance to PNS (biofuel projects were monitored twice a year for PNS Compliance) 4. 67 Biomass Projects / Facilities inspected and monitored <p>B. Continuing implementation of MOA with Philippine Information Agency (PIA) for IEC Campaign and Advocacy Plan for the National Biofuels Program.</p> <p>C. Purchase of office supplies, collateral</p>

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		Php 35,892,000.00 FY 2014: Php 10,065,000.00 FY 2015: Php 19,506,000.00 FY 2016: Php 19,506,000.00		collateral materials, and laboratory supplies.	materials, and laboratory equipment. D. Development of test protocol and conduct of actual on-road and performance testing using brand new vehicles for higher biofuels blends (biodiesel / bioethanol.) E. Continuation of implementation of MOA with Technological University of the Philippines (TUP) on the testing of 5% and 20% biodiesel blends for in-use vehicles, validation road test. F. Continuation of implementation of biofuels projects using alternative feedstock (esterified used vegetable oil, sweet sorghum, cassava, and microalgae). G. Continuation of implementation of MOA with Cavite State University on Biogas Technology Assessment in the Philippines (2 MOAs).

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5. Ocean Energy Potential Resource Assessment	Hydropower and Ocean Energy Management Division – Renewable Energy Management Bureau (HOEMD-REMB)	<p>The project envisions to attain the following general objectives:</p> <ol style="list-style-type: none"> 1) Advance research and development of open-ocean current, wave tidal and thermal energy systems through capability building; 2) Make available first hand data for potential ocean area for development to interested stakeholders and counterparts; and, 3) Be able to advance the operational readiness and awareness of ocean energy technology in the country. <p><u>Project Cost:</u> Total Project Cost: Php 13,325,000.00</p>	<p>The specific objectives of the project are:</p> <ol style="list-style-type: none"> 1) To develop technical capability of HOEMD personnel in the identification of potential Philippine ocean territory area, in the evaluation of project proposals, and in providing technical assistance to stakeholders for ocean energy development through a capability training program; 2) To conduct resource assessment of identified areas within the PEP; 3) To familiarize with the operation of technology and equipment; 	<p>The expected outputs/ deliverables are:</p> <ol style="list-style-type: none"> 1) Ocean resource inventory 2) Ocean energy potential sites database 3) Promotion of ocean energy potentials (IEC) 4) Training program 5) Procurement of equipment <p>At the end of the project, it would have:</p> <ol style="list-style-type: none"> 1) Trained HOEMD staff for resource assessment; 2) Acquired geophysical equipment and database equipment; and, 3) Set-up a database system; 4) Identified potential sites for energy development; and, 5) Posted at least 40 sites on the web or 	<p><u>As of 2Q 2014:</u></p> <p>Opening of bids was done on 7 July 2014.</p>

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			4) To develop and maintain a database; 5) To establish collaboration and strategic partnership with various government agencies and academe; and, 6) To conduct extensive IEC program to stakeholders.	published in a newspaper of general circulation.	

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6. Alternative Fuels for Transportation and Other Purposes	Alternative Fuels and Energy Technology Division – Energy Utilization Management Bureau (AFETD-EUMB)	<p>The project aims to reduce dependence on imported oil, to contribute to energy security through fuel diversification and to provide more environment-friendly alternatives to fossil fuels.</p> <p><u>Project Cost:</u> Total Project Cost: Php 118,476,000.00</p> <p>FY 2012 Approved Budget: Php 9,597,000.00 FY 2013 Approved Budget: Php 20,340,000.00 FY 2014: Php 17,420,000.00 FY 2015: Php 24,942,000.00 FY 2016: Php 24,942,000.00</p>	<p>The following items are the project's objectives:</p> <ol style="list-style-type: none"> 1) Program implementation on the use of Compressed Natural Gas in the transport sector initially through the pilot project; 2) Promotion of the diversification of the country's fuel resources in the transport sector; development of standards; 3) Carrying out information, Education, and Communication (IEC) nationwide on the use of Liquefied Petroleum Gas in transport; and 4) Research study on the potential of hydrogen as energy source for the transport, 	<ol style="list-style-type: none"> 1) Natural Gas Vehicle Program for Public Transport (NGVPPT) (Duration: October 16, 2002-2018) <ul style="list-style-type: none"> - 200 commercially operating CNG bus units by 2015 - Two (2) units of Modular CNG Stations to be located in Biñan, Laguna and Batangas City - Annual Average Reduction of CO₂ Emission: 26,872 Metric Tons 2) AutoLPG <ul style="list-style-type: none"> - Converted/ retrofitted LPG vehicles in major cities monitored - Government procedures for the utilization of LPG as transport fuel harmonized - Tests on the use of LPG for public utility jeepneys 	<p><u>As of 2Q 2014:</u></p> <p>Alternative Fuels:</p> <ol style="list-style-type: none"> 1. Conducted IECs in Luzon (3), Visayas (5), and Mindanao (1) <p>NGVPPT:</p> <ol style="list-style-type: none"> 1. Deployed 34 units of CNG bus units 2. Bidding for equipment and civil works for construction and commissioning of 2 units of modular CNG stations. Award of winning bidder is awaiting approval from PNOC-EC Board of Directors <p>Auto-LPG Program:</p> <ol style="list-style-type: none"> 1) Registered 11,977 AutoLPG taxis

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			industrial, and commercial sectors/hydrogen	conducted - Enhanced inspection protocol for auto-LPG in transport developed - Annual Average Reduction of CO ₂ Emission: 223,390 Metric Tons 3) Introduction of emerging technology (e-vehicles)	

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7. National Energy Efficiency and Conservation Program	Energy Efficiency and Conservation Division – Energy Utilization Management Bureau (EECD-EUMB)	<p>This program aims to make energy efficiency and conservation (EE&C) a way of life. Specifically, the program aims to cushion the impact of increases in prices of petroleum products and electricity through the implementation of energy efficiency and conservation measures, promote cost avoidance/savings on fuel and electricity without sacrificing productivity, get firm savings commitments from identified sector groups and help protect the environment.</p> <p><u>Project Cost:</u> Total Project Cost: Php 179,361,000.00</p> <p>FY 2012 Approved Budget: Php 12,302,000.00</p>	<p>The project aims to further strengthen and promote energy efficiency and conservation in the commercial, industrial, residential, transport, agricultural, and power industry sectors.</p> <p>The following are the specific objectives of the project:</p> <ol style="list-style-type: none"> 1) To help contribute in achieving the energy reform agenda of the government in the aspect of ensuring energy security; 2) To help cushion the impact of oil price volatility to the economy; 3) To help mitigate effect of climate change through reduced carbon 	<p>Energy saving equivalent to 10% of the annual final energy demand consumption (2011 - 2030)</p> <ul style="list-style-type: none"> ✓ Energy Savings = 69,100 KTOE (3,455 KTOE/yr) ✓ Deferred Capacity = 6,780 Mwe (339 Mwe/yr.) ✓ CO2 Reduction = 178,980 KTCO2 (8,949 KTCO2/yr) 	<p><u>As of 3Q 2014:</u></p> <p>A. Recognition Award</p> <ol style="list-style-type: none"> 1. Don Emilio Abello Energy Efficiency Awards <ul style="list-style-type: none"> • Evaluated 486 quarterly energy consumption reports of 61 companies to determine recipients of the Don Emilio Abello Awards. • Plant visits were conducted in 24 manufacturing industries and commercial establishments to verify significant savings generated and the implementation of energy efficiency and conservation programs in their respective firms. <p>B. Draft Energy Conservation Bill</p> <p>An Expert's Workshop cum Write-shop on Energy Efficiency and Conservation Bill was conducted.</p> <p>C. Government Energy Management Program</p> <ul style="list-style-type: none"> • 16 Energy Audit Spot Checks were conducted. • Issued 6 Certificate of Savings to

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		(FY 2012 cum: Php 75,509,000.00) FY 2013: Php 25,000,000.00 FY 2014: Php 21,000,000.00 FY 2015: Php 25,000,000.00 FY 2016: Php 25,000,000.00	dioxide emissions as a result of judicious and efficient utilization of energy; 4) To promote and rationalize energy consumption through aggressive promotion of EE&C in government, industrial, commercial, residential, transport, and electric power industry sectors; and, 5) To promote energy efficiency and conservation as a way of life.		<p>Government Agencies / Offices</p> <ul style="list-style-type: none"> Air-conditioning system evaluation audit report was prepared by EECD Audit Team on the probability of replacing existing non-inverter air-conditioning units with inverter-type ACUs at DOE Building. 1 walk-through audit was conducted at Direct Data Captured Philippines. <p>D. Promotion of EE&C through DOE Field Offices and EECD-EUMB</p> <ol style="list-style-type: none"> 3 EE&C Seminars for Households 1 GEMP Seminar for Government Employees Conducted Energy Audit Spot Check in Government Buildings 2 In-house briefings on EE&C and GEMP were conducted by EECD-EUMB. <p>E. Peer Review on Energy Efficiency</p> <p>The 2nd Peer Review on Energy Efficiency was hosted by DOE in collaboration with Asia Pacific Economic Cooperation (APEC) through its arm the Asia Pacific Energy Research Center (APEREC) to assess the performance of the Philippines in terms of energy efficiency.</p>

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					The review Team headed by Mr. Tokato Ojimi, President of APERC visited 4 companies under the sugar, cement, glass and building sectors.

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8. Oil Industry Deregulation Management Program	Oil Industry Management Bureau (OIMB)	This program is basically earmarked to ensure effective enforcement of Executive Order 377 providing for the smooth coordination among all government agencies concerned in the implementation of RA 8479. It will provide guidance and assistance to new industry participants, and undertake activities that will contribute in strengthening consumer protection. It will continually educate and inform the public and key sectors of society on the benefits of deregulation in the oil industry and provide technical support to the programs and activities of the LPG and Liquid Fuels Task Forces. Project Cost:	The main objective of the project is to successfully implement the Downstream Oil Industry Deregulation Law. The specific objectives of the project include: 1) Advocate compliance of industry players standards on quality, quantity, safety and environment; 2) Espouse consumer protection by reducing trade violations in the liquid fuels and LPG industry; 3) Promote awareness of the different stakeholders, i.e. industry players, LGUs, concerned government	1) No. of focused inspections conducted; 2) No. of information dissemination activities conducted; 3) No. of capacity-building for LGUs conducted; 4) No. of coordination and consultation meetings conducted; and, 5) No. of IECs conducted in the academe.	As of 3Q 2014: A. Conducted Focused Inspection in the province of Pampanga on 15-20 September 2014: <ul style="list-style-type: none"> • Coordination and consultation meetings with LGUs on the conduct of Focused Inspection • Conducted two (2) IECs on the results of Focused Inspection to Industry stakeholders, LGUs and other consumers held in the cities of San Fernando and Angeles B. Conducted Actual Hands-On Seminar on the calibration and sealing of a Dispensing Pump in the following areas: <ul style="list-style-type: none"> • Dipolog City, Zamboanga del Norte (September 16, 2014) • Pagadian City, Zamboanga del Sur (September 18, 2014) C. Initiated dialogues with LGUs in the cities of Dipolog and Pagadian in the needed local ordinance for calibration and sealing of dispensing pumps D. Facilitated and participated in the conduct of Multi-Sectoral Advocacy Campaign in the Downstream Oil Industry held in Dipolog and Pagadian Cities, Zamboanga Del Sur E. Conducted IEC in Cavite State University (August 20, 2014) F. Facilitated the procurement of office and other supplies.

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		Total Project Cost: Php 142,921,000.00 FY 2012 Approved Budget: Php 9,908,000.00 (FY 2012 cum.: Php 83,324,000.00) FY 2013: Php 12,060,000.00 FY 2014: Php 10,380,000.00 FY 2015: Php 17,121,000.00 FY 2016: Php 17,121,000.00	agencies, etc. on the rules and regulations governing the oil industry; 4) Espouse consumer awareness through the publication of press releases and primer on oil price updates; 5) Harmonize fuel quality to international standards pursuant to the Philippine Clean Air Act of 1999; 6) Promote retail competition through provision of capital assistance and conduct of management and skills training program for interested investors in the gasoline business; and,		

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			7) Conduct studies/ researches relative to the improvement of the downstream oil industry.		

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9. Health, Safety, Security and Environment (HSSE) Program for Natural Gas Facilities in the Philippines	Natural Gas Management Division – Oil Industry Management Bureau (NGMD-OIMB)	<p>The project will be implemented for two and a half (2.5) years starting April 2013 and will end on September 2015.</p> <p>The anticipated increase in number of projects for natural gas calls for an urgency to establish an HSSE standard and program in support to the policy direction of the government. Gas industry networks and their associated technologies are fundamentally dependent on industry standards to ensure consistency and continuity among all the various elements. Standards are used to establish procedures and properties relevant to processes and requirements. The Health, Safety, Security, and Environmental</p>	<p>Main Objective: To fully develop standards and management programs on Health, Safety, Security, and Environment (HSSE) for the existing and incoming natural gas facilities in the Philippines.</p> <p>Specific Objectives: 1) To develop local standards for the natural gas facilities (CNG station, LNG terminal/ hub, regasification facility, pipeline and other ancillary facilities) in the Philippines 2) To identify, assess, manage and minimize HSSE risks in natural gas facilities during construction, operation and maintenance 3) To come up with</p>	<p>1) Hiring of qualified consultants contracted out to undertake the implementation and/or realization of the objectives of this project proposal 2) Inventory and accounting of local and international HSSE best practices on natural gas facilities which can be locally adopted in the HSSE manual for compliance of operators of natural gas facilities 3) Established local standards for the natural gas facilities 4) Drafted the HSSE manual covering but not limited on procedures, audit items, risk assessment and management, corrective/preventive actions, emergency</p>	<p>As of 3Q 2014:</p> <p>1. The BAC TWG and end-user conducted post-qualification on EOil, the sole bidder last August 1, 2014 in Los Baños Laguna. NGMD, as end-user, has recommended EOil for this particular procurement since it passed / complied with the requirements as specified in the TOR. However, BAC-TWG has provided a disqualification notice for several grounds. The bidder was given three (3) working days to file its request for reconsideration, together with the opportunity to submit other supporting documents to substantiate its claim, which had been complied.</p> <p>2. On October 9, 2014, the BAC-TWG held a meeting to inform the end-user of its final decision after evaluating the appeal made by the consultant. Based on the evidences, the sole bidder failed to comply with the legal requirements of the bidding. Therefore, the decision shall be presented to the BAC for its finality. (no date specified yet).</p>

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		standards to be established will provide assurance in safety, increase efficiency in operations, and strengthen the implementation of the regulatory function of DOE, through NGMD, on the construction, operation, and maintenance of existing and incoming gas facilities and ensured compliance of safety in the facilities and operations within the gas chain. <u>Project Cost:</u> Total Project Cost: Php 5,552,160.00 FY 2013: Php 160,000.00 FY 2014: Php 4,430,000.00 FY 2015: Php 2,282,000.00	a HSSE manual covering but not limited to the detailed procedures, standards, audit items, risk assessment and management, corrective/preventive actions that will enable proper implementation/management of HSSE programs by operators of natural gas facilities 4) To have a Department Circular institutionalizing the technical standards provided in the HSSE manual that would become the basis for enforcement and compliance of operators/ owners of natural gas	response programs for stakeholders and government regulators and approval 5) Established and institutionalized HSSE Management Team that will oversee the continuous improvement of the natural gas facilities HSSE manual, plans and programs 6) Drafted the Department Circular for approval that will institutionalized the technical standards provided in the HSSE manual that would be the basis for enforcement and compliance among operators of natural gas facilities 7) Training needs assessment report highlighting the	

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Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
			facilities 5) To conduct inventory of local and international HSSE best practices on natural gas facilities that will form part in the HSSE manual 6) To organize a team that enable continual improvement of the HSSE standards and system 7) To identify and design training programs that will effectively address the needs and implement a continuous capacity building for regulators	identified skills needed to effectively implement the HSSE standards and regulation for the natural gas industry and matrix of designed training program for the regulators 8) Training reports of relevant trainings participated on HSSE standards and regulation 9) HSSE Implementation Plan and Program	

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Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
10. Capacity Building on Regulatory and Technical Framework for Pipeline Systems	Oil Industry Standards and Monitoring Division – Oil Industry Management Bureau (OISMD-OIMB)	<p>The project will be implemented for one (1) year.</p> <p>Through the project, OISMD-OIMB personnel will participate in series of extensive courses and technical trainings, site visits and operations hands-on as introduction to technical and regulatory concepts, frameworks and actual field applications of established pipeline systems. Emphasis shall be given on ensuring public safety and efficiency in pipeline service guided by acceptable technical standards and codes of practice.</p> <p>Lecture series of the project will be in Metro Manila and Batangas; while case studies will be conducted in Thailand, South Korea and USA.</p>	<p>Objectives:</p> <p>1) To support the conduct of classroom-type lectures and trainings from experts coupled with field and on-site exposures/visits and hands-on experiences on the design, operation and regulation of networked pipeline systems</p> <p>2) To improve the existing capacity of the DOE-OIMB to address, implement and support the technical and regulatory aspect for pipeline monitoring and regulation</p> <p>3) Draft policy instruments and regulations supportive of pipeline development in</p>	<p>1) As a comprehensive capacity and capability upgrading program, it is expected that the OIMB staff shall:</p> <p>a) Undergo a series of academic/technical trainings through classroom-type of lectures/seminars</p> <p>b) Participate in field exposure and familiarizations exercises of pipeline systems</p> <p>c) Observe application of technical standards and codes of practice to existing pipeline systems, both in the Philippines and in selected countries known for operating extensive pipeline</p>	<p>As of 3Q 2014:</p> <p>Implemented the DOE-OIMB's Capacity Building Program for the Regulatory and Technical Framework for Pipeline Systems through the Technical Familiarization visit for the case studies and Field Exposure in the United States with two participants from the OIMB last August 19-23, 2014. Some of the highlights suggested to DOE are as follows:</p> <ul style="list-style-type: none"> • Consider the setting-up of a government agency / unit which will have an oversight function to regulate, monitor and supervise the industry; and • DOE should widen and/or strengthen its linkages with relevant institutions to beef up its database and to be constantly apprised with best practices in the industry. Linkages and strong relationship with the local government and the community are very important and necessary channels that should be maintained by the DOE and industry players in ensuring safety for the pipelines systems.

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Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
		<p>Project Cost: Total Project Cost: Php 2,974,664.00</p>	<p>the Philippines 4) Identification of and compilation of relevant regulations and technical standards for pipeline design, construction, operation and maintenance and code of practice.</p>	<p>systems for the transport of petroleum products d) Establish membership to professional organizations 2) Establish professional relationships or network with experts, both technical and legal, through direct meetings, orientations or participation in conferences and seminars related to pipeline systems and operations 3) Achieve improvement in the office equipment and capability supportive of the expanded role of the OIMB 4) Design a working draft Philippine pipeline regulations including pipeline</p>	

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Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
				<p>system</p> <p>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</p> <p>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.</p>	

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Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
11. Establishment of Technical Capability on Quality Testing of LPG Autogas as Alternative Fuel	Geoscientific Research and Testing Laboratory – Energy Research Testing and Laboratory Services (GRTL-ERTLS)	<p>The project will be implemented for two (2) years, from 2013 to 2014.</p> <p>The project aims to address the pressing concerns on the Auto LPG fuel quality in the Philippines. The DOE laboratory has the technical capability and qualified analysts to analyze the physical and chemical requirements of Auto LPG but the laboratory is not equipped with scientific equipment for the analysis. Procurement of analytical equipment shall be used to ensure product compliance to quality standards under PNS/DOE QS 005:2005. The establishment of this technical capability would be the first of its kind.</p>	<p>This project aims to enable DOE-Oil and Gas Section, GRTL to be equipped to carry out detailed physical and chemical analyses of the AutoLPG being supplied to the market to ensure adherence to the parameters set under the Bureau of Product Standards (BPS), DOE and Technical Committee on Petroleum Products and Additives (TCPPA). In doing so, quality and safe AutoLPG will be available to the public.</p> <p>Specific Objectives: The project intends to meet the following objectives: 1) To procure/acquire scientific and analytical</p>	<ol style="list-style-type: none"> 1) Acquired scientific equipment that will establish the technical capability and equip the DOE Oil and Gas Section to conduct fuel quality testing of AutoLPG 2) Methods/ parameters/ protocols scientifically tested and validated applicable for the implementation of PNS for AutoLPG 3) Manual of procedures on optimum working parameters for the highly specialized AutoLPG tests using the prescribed equipment 4) Strict compliance to ensure quality and safe AutoLPG 	<p><u>As of 3Q 2014:</u></p> <ol style="list-style-type: none"> 1. Collected five (5) samples from Unioil Station in Kalentong Auto-LPG refilling station 2. Conducted fieldwork in Cebu and collected 14 autogas samples from three (3) dispensing stations (Pryce Gas, Petron and Petronas) on August 11-15, 2014. 3. Validated / verified five (5) ASTM Methods using samples collected from refilling stations and prepared report 4. Prepared four (4) operating instructions for the following equipment <ul style="list-style-type: none"> • Reid Vapor Apparatus • Wickbold Apparatus • Pressure Hydrometer for Relative Density • Copper Corrosion Apparatus 5. Conducted one (1) foreign training on the operation and troubleshooting of Gas Chromatograph which was held in Taiwan on August 25-29, 2014.

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Project Title	Implementing Unit	Description	Objective/s	Outputs	Accomplishments
		Project Cost: Total Project Cost: Php 23,802,000.00 FY 2013: Php 23,570,000.00 FY 2014: Php 230,000.00	equipment that will fully equip the GRTL-DOE Oil and Gas Section in the analysis of detailed chemical and physical compositions of AutoLPG. 2) To validate the prescribed PNS international test methods set by BPS, DOE and TCPPA for the analysis of AutoLPG 3) To build database for Philippine AutoLPG quality parameters 4) To complement DOE's program on the use of AutoLPG as alternative fuel and to put in place the PNS set by the DOE, BPS and TCPPA		

FY 2014: Ongoing Foreign-Assisted Projects

As of 3rd Quarter 2014

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
1. Philippine Industrial Energy Efficiency Project (PIEEP)	UNIDO and Co-financing of the DOE, Land Bank, Bank of Philippine Islands and Development Bank of the Philippines	The project will train Filipino national experts in both the optimization of steam, compressed air and pumping systems and in energy management while at the same time introducing these concepts to participating industrial enterprises that will directly benefit from the project implementation. Outputs will include greenhouse gas emission reductions from savings in the use of fuel and electricity attributable to systems improvements undertaken by the participating industrial enterprises. The project will also build capacity for industries in order to	The project aims to introduce ISO 50001 energy management system along with system optimization approach for improvement of industrial energy efficiency of the Philippines.	The components of PIEEP are as follows: 1) Energy Management (Integration of Energy Management System/ ISO50001) 2) Systems Optimization (Steam, Compressed-air, Pumping Systems) 3) Enhancement of Financial Capacity (EE Financial Criteria) 4) Project Management 5) Monitoring and Evaluation	As of 3Q 2014: 1. 276 factory personnel from 161 factories trained in 2 days Energy Management System (EnMS) implementation seminar. 2. 19 National Experts on EnMS recognized by DOE and UNIDO, with 31 candidates undergoing expert training at present. 3. 428 factory personnel from 254 factories trained in 2-days systems optimization training for pumps, compressed air and steam system optimization 4. 8 factories implemented EnMS (ISO 50001 framework) with 10 factories having on-going implementation of EnMS 5. 10 engineers recognized as National Experts on systems optimization (Steam and Compressed Air) 6. 17 factories were assessed to optimize pump, compressed air, and steam systems.

FY 2014: Ongoing Foreign-Assisted Projects

As of 3rd Quarter 2014

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		<p>introduce an energy 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.</p> <p><u>Project Cost:</u> Total Project Cost: US\$ 27,166,065.00</p> <p>UNIDO-GEF: US\$ 3,166,065.00 Co-financing: US\$ 24,000,000.00 (National Commercial Banks – US\$ 20,000,000.00; Department of Energy – US\$ 4,000,000.00)</p>			

FY 2014: Ongoing Foreign-Assisted Projects

As of 3rd Quarter 2014

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
2. Market Transformation through Introduction of Energy Efficient Electric Vehicle Project	Asian Development Bank	Energy efficient electric vehicles are a new technology with the promise to transform the way energy is used by today's internal combustion engine (ICE) vehicles. For net energy importing countries, such as the Philippines, electric vehicles can dramatically reduce the country's dependence on imported energy resources, which in turn will reduce short term price volatility and improve long term energy security. This technology has also created the opportunity to transition into an environment, where vehicles no longer generates harmful air and noise pollution and can be powered by indigenous	<p>Objectives:</p> <ul style="list-style-type: none"> - On a macro-level, project aims to reduce transport sector's annual petroleum consumption by 2.8% (based on 20 million barrels per year consumption in 2010) or an equivalent of 89.2 million liters per year; and, - Avoided CO₂ emissions is estimated at 259,008 tons per year by shifting to 100,000 electric tricycles. <p>Impact Outcome: The impact of the project will be sustainable energy use by the transport sector, and the outcome will be the transformation of the tricycle industry through large-scale adoption of locally</p>	<p>The project has five outputs:</p> <ol style="list-style-type: none"> 1) Complete e-trike units delivered to LGUs accompanied by a standard 5-year warranty and after sales services; 2) Lithium-ion battery supply chain with associated support services established; 3) Solar charging stations pilot on selected areas; 4) Material recovery from internal combustion engine (ICE) tricycles and used batteries; and, 5) Successful communication, social 	<p><u>As of 2Q 2014:</u></p> <p>Award of contract for recruitment of Project implementation Consultants (PIC) and procurement of E-Trike Goods (Package 1):</p> <ul style="list-style-type: none"> • Special meeting with DOE-BAC regarding the updates on e-trike goods procurement and PIC recruitment • Industry meeting on battery charging technologies at ADB, Mandaluyong <p>Meetings to facilitate availment of participation in the project::</p> <ul style="list-style-type: none"> • Bagong Alyansa ng Mamamayang Pangtransportasyon Para sa Edukasyon at Reporma (BAMPER) for the continued partnership on strengthening the demand for e-trike units like conducting fora • Land Bank of the Philippines (LBP) and LBP Leasing Corporation for the financing aspect specifically on the presence of conduits in the local government units concerned • NIDEC Corporation, a Japanese manufacturer of electric motors <p>E-Trike market build-up through consultations:</p> <ul style="list-style-type: none"> • Legal: Meeting with DOE-Legal Services and ADB Consultant concerning some legal instruments for the E-Trike Project

FY 2014: Ongoing Foreign-Assisted Projects

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		<p>renewable energy resources such as solar, hydropower or geothermal.</p> <p><u>Project Cost:</u> US\$ 504 million (Php 21.672 billion)</p> <p><u>ADB Loan:</u> US\$ 300 million (Php 12.9 billion)</p> <p><u>CTF Loan:</u> US\$ 100 million (Php 4.3 billion)</p> <p><u>Gov't Counterpart:</u> US\$ 99 million (Php 4.257 billion)</p> <p><u>CTF Grant:</u> US\$ 5 million (additional US\$ 4 million out of the US\$ 5 million CTF Grant shall be allocated for Solar Charging Facilities) (Php 215 million)</p> <p><u>Duration:</u> Five (5) years</p>	<p>made energy-efficient e-trikes.</p>	<p>mobilization, and technology transfer.</p> <p>Output 1: E-Trike units. The project will deliver 100,000 complete E-Trike units to selected cities and areas to replace ICE tricycles. The supply contract will include a standard warranty on mechanical and 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</p>	<ul style="list-style-type: none"> • Financial: Meeting with DOE-Financial Services about E-Trike Project Imprest Fund • Regular Meeting: E-Trike Project Team composed of DOE and ADB involving the updates on the E-trike Project

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		<p><u>Schedule of implementation</u> Yr. 1: 3,000 units Yr. 2: 17,000 units Yr. 3: 30,000 units Yr. 4: 30,000 units Yr. 5: 20,000 units</p>		<p>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> <p>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 objective is to attract reputable international suppliers that have supplied</p>	

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
				<p>at least one large global vehicle brand.</p> <p>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</p>	

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
				<p>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 power purchase agreement to reduce off-take</p>	

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
				<p>of potential private investors. In addition, existing electric utilities will be encouraged to establish charging stations as commercial operation.</p> <p>Output 4: Material Recovery. 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</p>	

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
				<p>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.</p> <p>Output 5. Communication, social mobilization, and technology transfer. All stakeholders will be educated about the project – its benefits, technical parameters, costs, and</p>	

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
				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.	

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
3. Mini-Hydropower Development Project in the Province of Ifugao	Japan International Cooperation Agency	<p>The Provincial Government of Ifugao (PGI) has a pending application for the development of proposed Likud Hydropower Project. Since the LGU of Ifugao has no financial and technical capability to implement the project and as no concrete plans where to get fund for the implementation of said project, the assistance of JICA, through this project, would achieve the purpose of preserving the Rice Terraces, provide job opportunities, and help stabilize the power supply in the area.</p> <p><u>Project Cost:</u> DOE: Php 1,329,000.00 JICA: US\$ 3,934,000.00</p>	<p>The main objective is the construction and development of proposed Likud Hydropower Project to sustain Rice Terraces Conservation Fund and Prevent Removal of the Ifugao Rice Terraces from the List of the UNESCO World Heritage in danger.</p> <p>The specific objectives of the project are as follows:</p> <p>1. To further develop the technical capability of HOEMD staff in the preparation and evaluation of comprehensive Feasibility Study as well as the basic and detailed design of Civil Structures and Electro</p>	<p>Project Activities:</p> <p>1. Review the feasibility study, engineering design, plans, drawings, and preparation of bidding documents in cooperation with JICA;</p> <p>2. Facilitate the issuance of necessary permits and contract relative to the development of project;</p> <p>3. Conduct of monitoring activities during civil construction, installation and commissioning of Electro Mechanical</p>	<p>As of 1Q 2014:</p> <p>Conducted preparatory activities for the groundbreaking ceremony in January 2014 and capacity building / training for DOE and LGU of Ifugao.</p>

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		<p>The DOE will provide necessary counterpart personnel for the project including the office space for the dispatched expert.</p> <p>JICA, on the other hand, will provide the following inputs:</p> <ol style="list-style-type: none"> 1. Dispatch of expert to the Philippines 2. Training and study tour abroad 3. Project promotion meeting or seminar in the Philippines <p>The project will be implemented from February 2013 to November 2015.</p>	<p>Mechanical Equipment;</p> <ol style="list-style-type: none"> 2. To develop technical skills in the supervision and monitoring of ongoing construction of hydropower projects in the country; 3. To accelerate and promote the development of hydropower resources in the province of Ifugao; and, 4. To encourage the Municipal LGU's and the private sector to actively participate in the development of hydropower resources in the province of Ifugao. 	<p>Equipment;</p> <ol style="list-style-type: none"> 4. Study tours and trainings for HOEMD personnel on hydropower technology; and, 5. Conduct an extensive IEC program for all stakeholders to achieve sustainability of hydropower projects. 	

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
<p>4. Mini-Hydropower Development Project in the Province of Isabela</p>	<p>Japan International Cooperation Agency</p>	<p>With the government's thrust of accelerating hydropower development, the potential of hydropower along existing irrigation systems throughout the country is being envisioned as a major source for small capacities. And in the light of the implementation of the National Irrigation Sector Rehabilitation and Improvement Project (NIS RIP) by the National Irrigation Administration (NIA) covering the period 2012 to 2018, a parallel study to determine the hydropower potential of the 39 irrigation systems as well as the selection of the most feasible sites and the construction of a</p>	<p>Generally, the project aims to study the potential as to the technical feasibility and economic viability of hydropower projects along irrigation canals administered by the National Irrigation Administration (NIA) to support the hydropower development program of the DOE and help attain its "Renewable Energy Policy Framework" target.</p> <p>Specifically, the project aims to:</p> <ol style="list-style-type: none"> 1. Preparation of a study to determine the feasibility of hydropower development in irrigation systems throughout the country; 2. To strengthen the 		<p><u>As of 3Q 2014:</u></p> <p>Conducted switching-on ceremony of the 45-kilowatt mini-hydro power plant on November 4, 2014.</p>

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		<p>demonstration or pilot plant was deemed feasible and recommended.</p> <p><u>Project Cost:</u></p> <p><i>Phase I</i> DOE: Php 198,000.00 JICA: US\$ 25,000.00</p> <p><i>Phase II</i> DOE: PHP 814,000.00 JICA: US\$ 464,000.00</p> <p><i>Phase III</i> DOE: Php 609,000.00 JICA: US\$ 640,000.00</p> <p><i>Phase IV</i> DOE: Php 1,640,000.00 JICA: US\$ 5,124,000.00</p> <p>The project will be</p>	<p>technical capability of the HOEMD staff in the conduct of hydropower resource assessment and the preparation of feasibility study that will also enhance their capability to evaluate hydropower projects technically, financially and economically;</p> <p>3. To accelerate hydropower energy development in the Philippines to ensure energy security towards energy self-sufficiency;</p> <p>4. To acquire technical capability in the supervision and monitoring of the implementation</p>		

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		implemented from January 2013 to December 2017.	<p>and construction of a hydropower plant;</p> <p>5. To acquire or enhance skills in the Operation and Management of hydropower system installed along irrigation canal; and,</p> <p>6. To promote hydropower development scheme along irrigation facilities.</p> <p><u>Outputs:</u></p> <p>1. Pre-feasibility, feasibility and detailed studies of hydropower sites along irrigation systems nationwide</p> <p>2. Database of potential and feasible hydropower development sites along National Irrigation Systems of the country</p>		

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
			3. One (1) Hydropower Demonstration Plant along a selected irrigation canal		

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Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
5. <i>Philippine-Japan Project for Introduction of Clean Energy Using Solar Power Generating System</i>	Japan Grant Aid	<p>The project shall demonstration of the effectiveness and efficiency of net metering-connected solar photovoltaic power systems under Republic Act No. 9513</p> <p><u>Total Project Cost:</u> (grant): 600 Million Yen</p>	The project aims for the adaptation to and mitigation of climate change as well as on the Improvement of access to clean energy	Solar PV Generating Facility	<p><u>As of 3Q 2014:</u></p> <ol style="list-style-type: none"> 1. A Kick-Off Meeting among the Kanematsu, JICS and NEWJEC was conducted in Japan for the initial discussion of contract agreement between and among the JICS, Kanematsu and DOE. 2. The NEWJEC visited the Philippines to conduct another site visit in lieu of the Mall of Asia site and identified the Camp Crame as replacement. Mall of Asia decided to pull-out their site due to the SM Prime Holdings' development plan in the said site. The following are the sites recommended by the DOE for site survey and possible replacement for MOA site: <ul style="list-style-type: none"> • Camp Crame; • Batasan Complex; and • Quezon City Hall.