

FY 2014: Ongoing Locally-Funded Projects
As of 2nd 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>Project Cost: 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 2Q 2014</p> <ol style="list-style-type: none"> 1. 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 2. Submitted the Final Resource Assessment and Geothermal Modelling in Banton and Balut Islands on May 30, 2014. 3. Completed Contract-out services for integrated geoscientific survey by FEDs in the three (3) candidate areas: Banton, Balut and Maricaban Islands on April 16, 2014. 4. Awarded the Contract-out Service for Integrated Geoscientific Survey in Maricaban Island to FEDS Energy Resources and Development Service Inc. on Dec. 13, 2013 5. 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

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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)			<p>6. 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.</p> <p>To date, the Contract-out Slim Hole Drilling Services was already awarded to DDCP on August 4, 2014 with the issuance of Notice to Proceed (NTP). DDCP has a scheduled inception workshop/technical presentation on Aug. 19, 2014 at the REMB Conference Room as part of the provisions in the contract/TOR. Project implementation (permitting and drilling activities) to follow.</p>

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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 2Q 2014:</u></p> <ol style="list-style-type: none"> 1) Installed and commissioned 1,637 Solar Home Systems under Amended HEP 2011 (51% completed); 2) Facilitated the issuance of Amended Procurement Contract and the corresponding Notice to Proceed for HEP 2011; 3) Finalized the list of 1,553 out of 3,200 household beneficiaries for energization under Amended HEP 2011; 4) Facilitated the issuance of Procurement of Contract and the corresponding Notice to Proceed for HEP 2012-2nd Batch and 2013; 5) Facilitated the issuance of Notice of Award for HEP 2014-Lot 2; 6) Facilitated the issuance of Notice of Award for the Photovoltaic Streetlighting Project (932 units) in Yolanda Devastated Regions through the DBM-Procurement Service; 7) Conducted resource assessment and identified 2 microhydro projects in

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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>Brooke's Point, Palawan and Silay City, 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 2Q 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 one (1) met-mast installed in the Province of Nueva Ecija; 3) Conducted preliminary site assessment and micro-siting in eight (8) sites in the Provinces of Pampanga, Bataan, Zambales, Pangasinan and Nueva Ecija; 4) Identified three (3) potential sites in the installation of met-masts, to wit: <ul style="list-style-type: none"> • Mt. Barisbis, Carranglan, Nueva Ecija • Mt. William, Carranglan, Nueva Ecija • Brgy Dampay, Candelaria, Zambales 5) On-going permitting for the 3 sites; 6) On-going procurement of one (1) unit of met-mast and one (1) lot of office

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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.	equipment and supplies; 7) Updating of Philippine Wind Energy Atlas under the ADB QLW TA: <ul style="list-style-type: none"> ▪ Provision of wind energy data generated from four (4) met-masts to US NREL; ▪ Facilitate sharing of processed wind data from five (5) wind energy projects to US NREL; ▪ Participation to the launching of the Updated Philippine Wind Atlas and Geospatial Toolkit. 8) Participation to the 9 th Asian Clean Energy Forum (ACEF) organized by the Asian Development Bank (ADB).

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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 2Q 2014</u></p> <p>Implementation of the Biofuels Act of 2006 (RA 9367)</p> <ol style="list-style-type: none"> 1. Continuing conduct of monitoring, inspection / site visit and evaluation of existing and proposed biofuels / biomass projects and facilities nationwide (20 biofuel production facilities / projects, 70 biomass facilities / projects and 5 pending applications). As of 30 June 2014: <ul style="list-style-type: none"> • 11 biodiesel projects and 9 bioethanol facilities were monitored / inspected. • 16 out of 20 targeted biofuel plants monitored in compliance to PNS, 4 bioethanol projects are undergoing construction / financial closure • 65 biomass projects / facilities monitored / inspected 2. Continuing implementation of MOA with Philippine Information Agency (PIA) for the IEC Campaign and Advocacy Plan for the National Biofuels Program. 3. Purchase of Office Supplies, collateral materials, and laboratory equipment. 4. Development of test protocol and

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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.	<p>conduct of actual on-road and performance testing using brand new vehicles for higher biofuels blends (bioethanol / biodiesel).</p> <p>5. 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.</p> <p>6. Continuation of implementation of biofuels projects using alternative feedstock (esterified used vegetable oil, sweet sorghum, cassava, macroalgae).</p> <p>7. Continuation of implementation of MOA with Cavite State University on Biogas Technology Assessment in the Philippines (2 MOAs).</p>

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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>Project Cost: 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>As of 2Q 2014</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 2Q 2014:</u></p> <ol style="list-style-type: none"> 1) Information, Education and Communication (IEC) Campaign <ul style="list-style-type: none"> • 5 Usapang Climate Change: Facilitators' Training on EE7C (High School Teachers – DAP) • 3 Publication of Earth Hour print ad in major broadsheets (DAP) 2) Recognition Award <ul style="list-style-type: none"> • ASEAN Best Practice Competition for Energy Management in Buildings and Industries 3) Government Energy Management Program (GEMP) <ul style="list-style-type: none"> • 23 Energy Audit Spot Check • Issued 3 Certificate of Savings to Government Agencies / Offices 4) Energy Management Services <ul style="list-style-type: none"> • 3 Energy Audits conducted on members of PSMA Sugar Mfg. in collaboration with SRA 5) Promotion of EE&C through DOE Field Offices <ul style="list-style-type: none"> • 4 EE&C Seminars for Households • 2 GEMP Seminars for Government Employees • Conducted Energy Audit Spot Checks in Government Buildings

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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.		6) Energy Efficiency and Conservation Roadmap

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8. Oil Industry Deregulation Management Program	Oil Industry Management Bureau (OIMB)	<p>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.</p> <p>Project Cost:</p>	<p>The main objective of the project is to successfully implement the Downstream Oil Industry Deregulation Law.</p> <p>The specific objectives of the project include:</p> <ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<p>As of 2Q 2014:</p> <ol style="list-style-type: none"> 1. Conducted 2 Focused Inspections 2. Conducted 9 information dissemination activities 3. Conducted 3 capacity building for LGUs 4. Conducted 9 coordination and consultation meetings 5. Conducted 1 IEC in the Academe.

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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 2Q 2014:</p> <ol style="list-style-type: none"> 1. Opening of bids for the procurement of consultancy services was held last July 7. There was only one bidder and it was preliminarily evaluated using Quality-based Evaluation Procedure. 2. The BAC TWG and end-user conducted post-qualification of sole bidder last August 11 at Los Baños, Laguna. 3. A Briefing on Natural Gas, discussing the basics of natural gas, the policies, plans, and programs of the DOE for the industry, and its current situation was done last July 28. It was attended by the HSSE TWG (composed of representatives from ERDB, REMB and Legal Services of the DOE) and the HSSE Inspection and Monitoring Team (composed of identified government agencies that have direct involvement in the implementation of HSSE in natural gas facilities).

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		<p>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.</p> <p><u>Project Cost:</u> Total Project Cost: Php 5,552,160.00</p> <p>FY 2013: Php 160,000.00 FY 2014: Php 4,430,000.00 FY 2015: Php 2,282,000.00</p>	<p>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</p> <p>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</p>	<p>response programs for stakeholders and government regulators and approval</p> <p>5) Established and institutionalized HSSE Management Team that will oversee the continuous improvement of the natural gas facilities HSSE manual, plans and programs</p> <p>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</p> <p>7) Training needs assessment report highlighting the</p>	

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			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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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><u>As of 2Q 2014:</u></p> <p>1. Series of academic / technical trainings through classroom-type of lectures / seminars.</p> <ul style="list-style-type: none"> • Conducted meetings with Bonifacio Gas Corp. (BGC), National Institute of Geological Studies, Universities of the Philippines, Office of the Makati City Government • Completion of Training Program on Piping and Pipeline Integrity Management Systems in Batangas <p>2. Case studies and Field exposure and familiarizations of pipeline systems</p> <ul style="list-style-type: none"> • Completion of Technical Familiarization Visit in Bangkok, Thailand on 25-30 Nov. 2013 and in South Korea on 17-22 March 2014. Tentative schedule for the United States is on 3-9 August 2014.

FY 2014: Ongoing Locally-Funded Projects
As of 2nd Quarter 2014

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>	

FY 2014: Ongoing Locally-Funded Projects
As of 2nd Quarter 2014

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>	

FY 2014: Ongoing Locally-Funded Projects

As of 2nd Quarter 2014

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 2Q 2014:</u></p> <ol style="list-style-type: none"> 1. Procured 8 out of 10 equipment 2. Conducted 6 out of 7 equipment training 3. Validated 7 ASTM Methods 4. Collected sample in 3 out of 5 sites in NCR 5. Ongoing interpretation and integration of data analysis and preparation of 1 report.

FY 2014: Ongoing Locally-Funded Projects
As of 2nd Quarter 2014

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

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd 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 2Q 2014: 1) Conducted 10 Industrial Users' Training on Energy Management Systems / Steam Systems Optimization / Compressed Air Systems Optimization / Experts Training 2) 22 Plant visits wherein facility assessments were done.

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd 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 2nd Quarter 2014

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
<p>2. Market Transformation through Introduction of Energy Efficient Electric Vehicle Project</p>	Asian Development Bank	<p>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 generate harmful air and noise pollution and can be powered by indigenous</p>	<p><i>Objectives:</i></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><i>Impact Outcome:</i> 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

As of 2nd Quarter 2014

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 21.5 million)</p> <p><u>Duration:</u> Five (5) years</p>	made energy-efficient e-trikes.	<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

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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>	

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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>	

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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>	

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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>	

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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>	

FY 2014: Ongoing Foreign-Assisted Projects
As of 2nd Quarter 2014

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.	

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
3. <i>Mini-Hydropower Development Project in the Province of Ifugao</i>	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> <ol style="list-style-type: none"> 1. Review the feasibility study, engineering design, plans, drawings, and preparation of bidding documents in cooperation with JICA; 2. Facilitate the issuance of necessary permits and contract relative to the development of project; 3. Conduct of monitoring activities during civil construction, installation and commissioning of Electro Mechanical 	<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>

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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. 	

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
4. Mini-Hydropower Development Project in the Province of Isabela	Japan International Cooperation Agency	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	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. Specifically, the project aims to: 1. Preparation of a study to determine the feasibility of hydropower development in irrigation systems throughout the country; 2. To strengthen the		As of 1Q 2014 Conducted preparatory activities for the groundbreaking ceremony in March 2014 and capacity building / training for DOE and LGU of Isabela.

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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>		

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

Project Title	Fund Source	Description	Objective/s	Components	Accomplishments
		<p>implemented from January 2013 to December 2017.</p>	<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>		

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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

FY 2014: Ongoing Foreign-Assisted Projects

As of 2nd Quarter 2014

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 2Q 2014:</u></p> <ol style="list-style-type: none"> 1. Six (6) Tenderers from Japan have shown interests in the tender documents for the Project for Introduction of Clean Energy by Solar Electricity Generation System but only two (2) among the seven (7) companies have participated and submitted its Bid. Names of companies coordinated with the DOE for the conduct of assessment in the projects sites were as follows: <ol style="list-style-type: none"> 1. Marubeni Protechs Corp.; 2. Kanematsu Corp.; 3. Toyota Tsusho Corp.; 4. PHPC Co., Ltd, Inc./ Hitachi Group of Company; 5. Itochu Corporation/ Fuji Furukawa E&C Japan and Philippines; and 6. Mitsui Corporation. <p>The opening of Tender was set on July 7, 2014. After careful review and evaluation by the Japan International Cooperation System (JICS) and NewJec, the DOE's procurement Agent and Technical Consultant, they awarded the Contract to Kanematsu Corporation.</p>