

**LOCALLY FUNDED
PROJECTS**

**Department of Energy
Locally Funded Project
1st Quarter of 2017 Status Report**

PROJECT NAME	Alternative Fuels for Transformation and Other Purposes
IMPLEMENTING UNIT/ OFFICE DIVISION	Alternative Fuels and Energy Technology Division – Energy Utilization Management Bureau (AFETD-EUMB)
LOCATION	Nationwide
DURATION	2010 – Continuing
PROJECT COST	Php20,085,000.00 (approved appropriation for FY 2017)
DESCRIPTION	The program encourages and supports cooperation and private sector investments across to maximize the benefits of alternative fuels and advanced and emerging energy technology on our nation's transportation system. The program also supports the government's environmental sustainability strategic goal, and aims for the local adoption of alternative fuels and emerging energy technologies.
OBJECTIVES	<p>Main Objectives:</p> <ol style="list-style-type: none"> (1) Reduce dependence on imported oil through transportation fuel source diversification and adoption of indigenous energy technology; (2) Contribute to energy security by providing other fuel source aside from the conventional liquid petroleum products; and (3) Contribute to the attainment of the country's international commitment to climate change mitigation by reducing emission through the use of advance energy technology.
PROJECT ACTIVITIES	<p>Core Activities:</p> <ol style="list-style-type: none"> (1) Information, Education, and Communication (IEC) and awareness campaign to increase public acceptance of locally available alternative fuels and energy technologies (AFETs); (2) Identification, validation, and assessment of AFETs; (3) Adoption, review and update of necessary policy and enabling mechanism; and (4) Strengthening of partnership and collaboration with academic/research institution, National Government Agencies and sectoral stakeholders.
PROJECT COMPONENTS	<p>(1) Natural Gas Vehicle Program for Public Transport (NGVPPT)</p> <ul style="list-style-type: none"> ▪ Launched in 2002 ▪ Implemented by virtue of Executive Order 290 series of 2004 ▪ The NGVPPT is a pilot project that aims to demonstrate viability of Compressed Natural Gas (CNG) – fueled public utility buses (PUBs) operation as well as to showcase the commercial viability, technical requirements, market demand, and impact of incentives and public acceptance of natural gas in the public transport sector.

	<ul style="list-style-type: none"> ▪ It involved formulation of policies and provision of various fiscal and non-fiscal incentives. Standards with regard to the vehicle, refueling station, gas cylinder, and gas quality have also been formulated to support the implementation of the Program ▪ It has an initial 7-year pilot phase ("Pilot Phase") and if successful, DOE will declare to proceed with the Commercial Phase. <p>(2) Auto LPG Program</p> <ul style="list-style-type: none"> ▪ It promotes the mainstreaming of liquefied petroleum gas (LPG) as a cleaner alternative fuel for public transport to replace gasoline or diesel, with focus on taxis and jeeps. <p>(3) Promotion of Other Emerging Technologies including E-Vehicles</p> <ul style="list-style-type: none"> ▪ The DOE continuously monitor emerging energy technologies for the country to effectively adopt for domestic application. These energy technologies, which are considered mature in developed countries and proven to be efficient, may be considered for evaluation for domestic application in sectors other than transportation.
MAJOR OUTPUTS	<p>(1) NGVPPT (Implementation of the pilot project)</p> <ul style="list-style-type: none"> ▪ Deployment of 200 CNG public utility buses ▪ Establishment of CNG refueling station ▪ Provision of incentives on the use of CNG for public transportation ▪ Formulation of standards and supporting policies <p>(2) Auto LPG Program (Support the use of LPG as alternative fuel for transportation and other equipment)</p> <ul style="list-style-type: none"> ▪ Validate performance of LPG as fuel for vehicle ▪ Formulation of standards and policies to ensure public safety and welfare ▪ Research and studies for other application of LPG. <p>(3) Promotion of Other Emerging Technologies including E-Vehicles (Promotion of advance and emerging energy technologies)</p> <ul style="list-style-type: none"> ▪ Introduction of advance transportation technologies such as electric vehicles ▪ Emerging energy technology research assessment and validation for pilot testing ▪ Demonstration project for advance energy technologies
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <p>(1) Conducted four (4) promotional events and Information, Education, and Communication (IEC) Campaigns on AFETs despite having only one (1) target for the quarter;</p>

	<p>(2) Conducted the targeted one (1) consultation in relation to the update of Philippine National Standards (PNS) 05:1983-Code of Practice for the use of LPG in internal combustion engine; and,</p> <p>(3) The draft of Joint Budget Circular in relation to the formulation and publication of the Implementing Rules and Regulations (IRR) for the implementation of Section 36: "Procurement of Alternative Fuel vehicles and energy technologies under R.A. No. 10924 or the 2017 General Appropriation Act" was already submitted to the office of the Secretary.</p>
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Locally Funded Project
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PROJECT NAME	Biofuels Program
IMPLEMENTING UNIT/ OFFICE DIVISION	Biomass Energy Management Division - Renewable Energy Management Bureau (BEMD-REMB)
LOCATION	Nationwide
DURATION	2006 – Continuing
PROJECT COST	Php 14,241,000.00 (approved appropriation for FY 2017)
DESCRIPTION	Appropriating funds to direct the development and utilization of domestically-produced biofuels as mandated under the Republic Act No. 9367 also known as the Biofuels Act of 2006 and other purposes
OBJECTIVES	To increase the contribution of biofuels in the country's energy mix thereby reducing its dependence on imported fossil-based fuels, enhance the quality of the environment, and create opportunities for countryside socio-economic development consistent with the Philippine Energy Plan
MAJOR OUTPUTS	<ol style="list-style-type: none"> (1) Status/updates on various biofuels and biomass for existing facilities and proposed projects (2) Promotion of Biofuels Program (3) CT equipment, ICT/office/laboratory supplies, collateral materials, and others (4) Data/information on the effect of using higher biofuel blends on test vehicles (5) Data/information on the effect of using 20% biodiesel blends on four in-use test vehicles (6) Data/information on the utilization of biofuel using alternative feedstock (7) Information on new/emerging biofuel technologies
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <ol style="list-style-type: none"> (1) Monitored all the 26 targeted biofuel plants in compliance to PNS (biofuel projects were monitored twice a year for PNS Compliance) <u>Accredited:</u> Biodiesel–11 Bioethanol – 10 <u>Registered with Notice to Proceed:</u> Biodiesel – 2 Bioethanol – 3; (2) Conducted site inspection/validation and product sampling of 12 accredited biofuel production facilities to monitor compliance to reportorial obligations under JAO 2008-1, Series of 2008, RA 9513 and product quality to PNS. This is out of the 21 targeted for the first semester of 2017; (3) Witnessed 38 denaturing activities; (4) Awarded two (2) biomass renewable Energy Operating Contract/

	<p>Certificate of Registration;</p> <ul style="list-style-type: none">(5) Conducted 20 site inspection/ validation of Biomass Facilities and Projects out of the 72 targeted for 2017;(6) Processed 16 Safety Officer's Permit;(7) Participated/ attended to nine (9) local/ international seminar/ workshop/ training on biofuels; and,(8) Conducted six (6) Technical Working Group (TWG) meetings, project presentations, etc.
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PROJECT NAME	Capacity Building for the Test and Evaluation of Lamps for General Lighting Application particularly Light Emitting Diode
IMPLEMENTING UNIT/ OFFICE DIVISION	Lighting and Appliance Testing Division - Energy Research Testing and Laboratory Services (LATD-ERTLS)
LOCATION	The main location of this project is at the Lighting and Other Electrical Devices Section of Lighting and Appliance Testing Laboratory, Energy Research and Testing Laboratory Services, Department of Energy, Energy Center, 34th street corner Rizal drive, Bonifacio Global City, Taguig City. The test facility for the performance testing of LED products will be set-up at the existing LATD building. All meetings and workshops except for those specified to be conducted on selected cities/provinces will be conducted within the premises of the DOE main office.
DURATION	01 January 2017 to 31 December 2019
PROJECT COST	Php 44,123,200.00 (Total Cost and approved appropriation for FY 2017)
DESCRIPTION	<p>During the implementation stage of LED labeling LATD will be conducting regulatory testing, and energy label validation similar to the implementation of the energy labeling program of conventional lighting. A quarterly list of LEDs with approved energy label will be posted at the DOE website.</p> <p>To ensure the quality of test results and harmonize with international laboratory practice and competence, LATD will seek accreditation based on the latest version of PNS ISO 17025.</p>
OBJECTIVES	<p>Main Objective: The project aims to enhance the capability of LATD to promote energy efficient lighting technology in particular LED for general lighting service. The intention is to expand the coverage of energy labeling program to generate more energy savings for the country. It also aims to mitigate CO2 emissions through reduction of lighting energy demand.</p> <p>Specific Objectives:</p> <ol style="list-style-type: none"> (1) To conduct market research and testing to determine present LED technologies (2) To develop a National Standard for energy labeling and energy efficiency requirements for LED general lighting service. (3) To procure and set-up a test facility for performance testing of LED for general lighting service compliant to the latest version of PNS ISO17025. (4) To train laboratory personnel on the concepts in Photometry and or Radiometry for lighting technologies including test methods.
PROJECT OUTPUTS	<ol style="list-style-type: none"> (1) Market research report on the profile of LED technologies. (2) National Standards specifying the energy labeling and energy efficiency requirements of LED.

	<ul style="list-style-type: none"> (3) An operational test facility for LED performance testing. (4) Competent laboratory personnel in test and evaluation of LED. (5) A report on the potential energy savings from the transformation of the market to LED technologies. (6) An indicative report on the environmental benefit on the use of LED technology.
<p>UPDATES / ACCOMPLISHMENTS</p>	<p><u>1st Quarter of 2017:</u></p> <ul style="list-style-type: none"> (1) The preparation of bidding documents/ Terms of Reference (TOR) of project equipment was completed; and, (2) Conducted LED lamp profiling survey in Cebu during the last week of March 2017.

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PROJECT NAME	Capacity Building on Retail Market Monitoring of Petroleum Products
IMPLEMENTING UNIT/ OFFICE DIVISION	Retail Market Monitoring and Special Concerns Division - Oil Industry Management Bureau (RMMSCD - OIMB)
LOCATION	The project will be located at the DOE Central Office, Bonifacio Global City, Taguig City since it will be implemented by RMMSCD-OIMB. Although the venue/place for the participation to trainings and focused sessions will be dependent on whoever training provider/s will be identified and selected.
DURATION	January 2017 to December 2019
PROJECT COST	Php 196,665,300 (Total Project Cost) Php 110,951,100 (Approved Appropriation for FY 2017)
DESCRIPTION	<p>In enforcing the Downstream Oil Industry Deregulation Act of 1998 (R.A. 9367), the DOE through RMMSCD-OIMB conducts routine and complaint related inspections of gasoline stations, household LPG refilling plants, dealers, and retail outlets, as well as auto-LPG dispensing stations to ensure that petroleum products sold in those establishments are in compliance with existing Philippine National Standards (PNS) and DOE rules and regulations.</p> <p>This project was initiated to be able to provide a highly accurate, scalable and cost-effective system for quality and quantity testing of petroleum products in order to meet the new demands of the downstream oil industry local and global market. The DOE through the RMMSCD-OIMB has expressed willingness to undertake such measures to be able to enhance its technical competence and capabilities in order to meet the need of the downstream oil industry particularly in the retail monitoring.</p>
OBJECTIVES	<p>Main Objective: Capacitate both the technical and non-technical women and men inspectors in the downstream oil industry retail market sector.</p> <p>Specific Objectives:</p> <ol style="list-style-type: none"> (1) To establish and implement Capacity Building Plan (CBP) particularly for non-technical female and male inspectors in the downstream oil industry retail market sector. (2) To procure goods and services (Technical and Scientific Equipment, Motor Vehicles, Office Equipment/Supplies, Laboratory Supplies, Repair and Maintenance of Motor Vehicles/Technical & Scientific Equipment) to be used by women and men inspectors during inspectors/monitoring activities. (3) To procure goods packages (Audio-Video and ICT Equipment including its accessories) that will be used for the documentation of

	inspection/monitoring and IEC activities.
PROJECT OUTPUTS	<ul style="list-style-type: none"> (1) Capacity Building Plan (CBP) conducted/implemented. (2) Quality, procedures, and inspector's work instruction manuals as part of the preparatory works for ISO Accreditation/ Certification drafted and finalized. (3) Technical and Scientific Equipment, Motor Vehicles, Office Equipment/Supplies, Laboratory Supplies, Repair and Maintenance of Motor Vehicles/ Technical & Scientific Equipment procured and delivered. (4) Audio-Video and ICT Equipment including its accessories procured and delivered. (5) Project final report prepared and submitted.
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <ul style="list-style-type: none"> (1) Finalized the conduct of pre-qualification activity and evaluation for the contracted-out services through the accomplishment of one (1) draft endorsement memo to the Bids and Awards Committee (BAC), Terms of Reference (TOR) and Request for Services (RFS); (2) Drafted the Inspector's Work Instructions Manual (IWIM) for Quality Management System; (3) The three (3) Sulfur Analyzers were already awarded to winning bidder and just awaiting delivery; and, (4) The office supplies were coursed to the Personnel Services (PS) and just awaiting the delivery.

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PROJECT NAME	Comprehensive Resources Assessment of Philippine Low Enthalpy Geothermal Areas
IMPLEMENTING UNIT/ OFFICE DIVISION	Geothermal Energy Management Division – Renewable Energy Management Bureau (GEMD-REMB)
LOCATION	<ul style="list-style-type: none"> ▪ Camiguin Island, Camiguin ▪ Camiguin de Babuyanes, Calayan, Cagayan ▪ El Nido Palawan
DURATION	2015 – 2017
PROJECT COST	Php 31,995,200.00
DESCRIPTION	The project is a continuation of “Detailed Resource Assessment of Selected Low Enthalpy Geothermal Areas in the Philippines”, which started in 2011 and was completed on June 2015.
OBJECTIVES	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.
PROJECT ACTIVITIES	<ol style="list-style-type: none"> (1) Review of available data/ studies (2) Remote sensing and aerial photo interpretation (3) Semi-detailed to detailed geological, geochemical and geophysical surveys (4) Resource characterization and conceptual modeling (5) Pre-feasibility study
MAJOR OUTPUTS	<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) 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; and (3) Additional geoscientific data gathered on the Philippine low-enthalpy geothermal resources.
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <ol style="list-style-type: none"> (1) Conducted pre-feasibility study on all the three (3) targeted geothermal areas.

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PROJECT NAME	Detailed Wind Resource Assessment Project
IMPLEMENTING UNIT/ OFFICE DIVISION	Solar and Wind Energy Management Division - Renewable Energy Management Bureau (SWEMD- REMB)
LOCATION	Nationwide (40 sites in 20 provinces)
DURATION	2012 – 2019
PROJECT COST	Php 15,000,000.00 (approved appropriation for FY 2017)
DESCRIPTION	<p>The Republic Act No. 9513 (Act) otherwise known as the “Renewable Energy Act of 2008” was enacted to accelerate the exploration and development of RE resources to achieve energy self-reliance, through the adoption of sustainable energy development strategies to reduce the country’s dependence on fossil fuels, thereby balance the goals of economic growth and development with the protection of health and environment.</p> <p>As the lead agency in the implementation of the Act, the DOE is tasked, among others, to develop and maintain a centralized, comprehensive and unified data and information base on RE resources to ensure the efficient evaluation and analysis and dissemination of data and information on RE resources, development, utilization, demand and application.</p> <p>In pursuance of this tasked, the DOE is conducting 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>The project jumpstarted under the “Capacity Building to Remove Barriers to Renewable Energy Development in the Philippines” (CBRED) Project of the DOE, which procured five (5) units of meteorological mast (met mast) and other auxiliary equipment needed for the start of a detailed wind data gathering. Four (4) of these met masts were installed in the Municipality of Lubang, Occidental Mindoro; in City of San Jose City and Municipality of Pantabangan, both in the Province of Nueva Ecija by the Solar and Wind Energy Management Division (SWEMD) Technical Team. However, the met-mast installed in Lubang, Occidental Mindoro was decommissioned due to devastation of Super Typhoon Yolanda in 2013. Moreover, met-mast installed in the Municipality of Pantabangan, Nueva Ecija was transferred to the Municipality of Dasol, Pangasinan and the remaining unit was installed in the Municipality of Bagac, Bataan in 2015.</p>

	<p>Upon the conclusion of the CBRED Project in 2011, DOE assumed the sustenance of the wind resource assessment activity through the WRAP Project which was approved for implementation in 2012.</p>
<p>OBJECTIVES</p>	<p>Main Objective: To identify viable sites for wind power development in the country.</p> <p>Specific Objectives:</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 assessment as well as in the development of wind power projects; and, (4) Offer to prospective Wind Developers the identified viable wind areas for commercial development and implementation pursuant to RA 9513.
<p>PROJECT ACTIVITIES</p>	<ol style="list-style-type: none"> (1) Site Selection. The DOE has developed criteria in the selection of areas for wind resource assessment based on internationally accepted best practices approach in wind power development. The basis for site selection is mainly the indicative wind power density of the areas under the Wind Atlas of the Philippines. There should be no other wind energy development initiatives in the areas. The DOE will conduct preliminary assessment (desk study and on-site validation) to identify potential sites, both in onshore and offshore areas, for detailed wind resource assessment. Priority provinces for preliminary assessment are those areas with practical wind resources as identified by WWF Study. The assessed sites will be ranked according to their respective points using the aforementioned criteria. (2) Processing of Memorandum of Agreement (MOA) and Permits. Consultation with concerned local government units (LGUs) will be undertaken to forge an agreement (MOA) regarding the meteorological mast (met-mast) installation sites, logistics, regular physical monitoring and provision of security, among others. In compliance with the existing environmental laws, rules and regulations in the course of wind resource assessment, necessary permits will be secured from DENR and other concerned agencies. Moreover, the project will establish collaboration among agencies/offices (i.e. Manila Observatory, PAGASA, etc.) conducting related activities to ensure effective and efficient implementation of the project. (3) Procurement of Materials and Equipment. Necessary materials and equipment needed for the physical installation, monitoring, data gathering/transmission/analysis, repair and maintenance as

	<p>well as for health and safety of the SWEMD Technical Team will be acquired/procured.</p> <p>(4) Installation and Commissioning of Meteorological Mast. With the assistance from the concerned LGUs and Affiliated Renewable Energy Centers (ARECs), the SWEMD Technical Team will install and maintain a met-mast in selected areas to measure/record the average wind speed, wind direction and temperature within a period of at least two (years), among others. Necessary manpower (laborers, haulers and helpers) will be hired to assist the SWEMD technical staff during the installation of met-mast. Also, maintenance personnel will be hired on a Job Order (JO) status to conduct regular on-site monitoring, inspection and maintenance of met-masts.</p> <p>(5) Data Collection, Processing and Analysis. The DOE shall be responsible in the collection, processing, analysis and management of data recorded by the met mast. Data quality and integrity are the prime consideration of the activity. As much as possible, the operation of the met mast shall be monitored from time to time. A dedicated personal computer will be used in the encoding and processing of the collected/recorded data. Data analysis/interpretation will be undertaken thru WASPs, GIS soft wares and other computer applications. The said computer shall be equipped with legally-sourced anti-virus software to protect the database from virus and other malware infection. As a standard operating procedure, the database shall be maintained with a least two (2) backup files.</p> <p>(6) Monitoring and Maintenance. Regular on-site monitoring and preventive maintenance will be conducted to ensure continuous and smooth operation of the met-mast.</p> <p>(7) Decommissioning and Transfer of Meteorological Mast. After the prescribed period of data collection, the met mast will be transferred to other eligible areas.</p> <p>(8) Capacity Building Activities. The project is envisioned to create local capabilities not only in wind resource assessment but also in the whole process of wind energy development. A continuous and sustained capacity building activities shall be conducted to further strengthen the technical capability of DOE and other concerned personnel. DOE should have at least three (3) accredited WASP-operator/user staff to assert its authority on wind power project evaluation.</p> <p>(9) Commercialization Activity. Offer the identified viable wind sites to prospective Wind Developers for commercial project development under R. A. 9513.</p> <p>(10) Reporting. Reports shall be generated on a quarterly, semi-annual and annual basis.</p>
MAJOR OUTPUTS	The project will enhance the identification of viable sites that are ready for the development and implementation of commercial wind power

	<p>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 thru the reduction of GHG emissions. 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>UPDATES / ACCOMPLISHMENTS</p>	<p><u>1st Quarter of 2017:</u></p> <ul style="list-style-type: none"> (1) Exceeded the targeted one (1) request to the Bids and Awards Committee (BAC) by having four (4) requests in relation to the procurement of capital outlay, equipment, supplies, and materials; (2) All the nine (9) targeted meteorological masts (met-masts) were monitored as part of the quarterly monitoring activities; and, (3) There is a continued conduct of wind data collection.

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PROJECT NAME	Household Electrification Program using Renewable Energy Systems (Photovoltaic and Micro-hydro Systems)
IMPLEMENTING UNIT/ OFFICE DIVISION	Solar and Wind Energy Management Division - Renewable Energy Management Bureau (SWEMD – REMB)
LOCATION	Nationwide
DURATION	2010 – 2017
PROJECT COST	Php 1,008,256,176 Php 185,594,000.00 (approved appropriation for FY 2017)
DESCRIPTION	The Household Electrification Program (HEP) involves the provision of household lighting in off-grid areas (sitios) using mature renewable energy technologies such as photovoltaic solar home systems (PV-SHS), PV streetlights and micro-hydro systems. The HEP is a continuation of the Department of Energy's (DOE's) Barangay Electrification Program (BEP) which started in 1998 and had contributed to the attainment of a one hundred percent (100%) barangay level electrification in 2010.
OBJECTIVES	The HEP aims to contribute to the National Government's goal to attain ninety percent (90%) household electrification level by 2017.
PROJECT ACTIVITIES	<p>Major Activities:</p> <ol style="list-style-type: none"> (1) Conduct of Rapid Rural Appraisal (RRA) to determine the potential renewable energy (RE) resource (such as solar and micro-hydro) options that can be tapped for the HEP. This also entails the initial coordination with the local government units, electric cooperatives and community and initial community organizing to select the qualified household beneficiaries; (2) Procurement of RE systems and services that entails the bidding and issuance of corresponding contract for the qualified proponent for the supply, delivery, installation and commissioning of the required RE systems; (3) Conduct of social preparation/capacity building activities which include but not limited to the formation of the recipient households into Sitio Power Association (SOPA), trainings on basic accounting and auditing procedures for the officers of the SOPA, load management, maintenance and safety and health for the house beneficiaries and technicians' training for the LGUs and electric cooperatives; (4) Installation and commissioning of RE systems by the Contractor; (5) Conduct of technical inspection and physical inventory of energized house connections; and (6) Conduct of regular monitoring and evaluation of the operations and management of the RE systems.

MAJOR OUTPUTS	<ul style="list-style-type: none"> (1) Finalized list of qualified household beneficiaries; (2) Signed procurement contracts for the supply, delivery, installation and commissioning of PV Systems or Micro-hydro Power Systems; (3) Established and trained Sitio Power Associations (beneficiaries) on administrative, social, financial and technical aspects of the Project; (4) Energized household beneficiaries through the installation of Photovoltaic Solar Home Systems, PV Streetlights and/or Micro-hydro Power Systems; and (5) Sustainable operation and maintenance of RE Systems.
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <ul style="list-style-type: none"> (1) Facilitated the procurement and signing of Purchase Orders of two (2) out of the three (3) targeted office, ICT, and other supplies; (2) Energized 400 out of the targeted 463 households under HEP 2014 (Lot 2- Repeat Order) through the delivery, installation, and commissioning Photovoltaic (PV) systems in the Province of Bukidnon; (3) Conducted social preparation activities at 13 out of the targeted 32 sitios in collaboration with Field Offices; (4) Energized 1,867 out of the targeted 4,000 households under HEP 2015 through the delivery, installation, testing, and commissioning of PV Solar Home Systems (SHS); and, (5) Conducted technical inspection and physical inventory of installed PV systems on 269 out of the 12,664 households under HEP 2015.

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PROJECT NAME	National Energy Efficiency and Conservation Program (NEECP)
IMPLEMENTING UNIT/ OFFICE DIVISION	Energy Efficiency and Conservation Division-Energy Utilization Management Bureau (EECD-EUMB)
LOCATION	Nationwide
DURATION	2006 - Continuing
PROJECT COST	Php 30,000,000.00 (approved appropriation for FY 2017)
DESCRIPTION	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.
OBJECTIVES	The project aims to further strengthen and promote energy efficiency and conservation in the commercial, industrial, residential, transport, agricultural, and power industry sectors.
MAJOR OUTPUTS	<p>(1) Component No. 1: Energy Management</p> <ul style="list-style-type: none"> ▪ Energy management standard promulgated nationally. ▪ Capacity of industry and industry support organizations developed to implement ISO compliant energy management systems. <p>(2) Component 2: Systems Optimization</p> <ul style="list-style-type: none"> ▪ Capacity of industry and industry support organizations developed to implement systems optimization. ▪ Increased adoption of system optimization energy efficiency projects by industry. <p>(3) Component 3: Enhancement of Financial Capacity</p> <ul style="list-style-type: none"> ▪ Increased availability of financial capacity and support for industrial energy efficiency projects. <p>(4) Component 4: Project Management</p> <p>(5) Component 5: Monitoring and Evaluation</p>
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <p>(1) Conducted two (2) Public Consultation on the Philippine Energy Standards and Labeling Program – Implementing Guidelines (PESLP-IG) and Minimum Performance;</p> <p>(2) Conducted all the targeted 11 energy audit spot checks in government agencies; and,</p> <p>(3) Issued four (4) certificates of energy savings.</p>

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PROJECT NAME	Nationwide Intensification of Household Electrification (NIHE)
IMPLEMENTING UNIT/ OFFICE DIVISION	Rural Electrification Administration and Management Division – Electric Power Industry Management Bureau (REAMD-EPIMB)
LOCATION	Nationwide; priority given to poor households
DURATION	January 2015 – December 2017
PROJECT COST	PhP 1,983.81 Billion (Original) PhP 1,725.48 Billion (Revised) PhP 815,396,000.00 (approved appropriation for FY 2017)
DESCRIPTION	<p>The NIHE Project aims to implement the various strategies and programs of the Government’s goal of attaining 90% HH electrification by 2017 as specified under the Household Electrification Development Plan 2014-2017. To attain 90% household electrification by 2017 by encouraging all DUs to develop and implement specific measures to fast-track the connections of the remaining unelectrified households in both electrified (load centers and urban/slum areas) and unelectrified areas of their franchise areas.</p> <p>The Project involves the formulation and implementation of specific measures to fast-track the connections of the remaining unelectrified households the franchise areas of the DUs and ECs. These include the streamlining of house wiring connections requirements by LGUs and DUs and promotion of LGU-DU Partnership as main strategy towards intensification, among others. In addition, a Grant Assistance Program shall be developed to support the electrical connection of the dwelling units of deserving poor households as well as others affected by calamities. Priority shall be given to those families enrolled under the DSWD’s Pantawid Pamilyang Pilipino Program (4Ps) to ensure the successful poverty alleviation through the provision of basic electricity services. The DSWD’s National Household Targeting System for Poverty Reduction database shall be used as the main reference for identifying eligible households.</p>
OBJECTIVES	To contribute in the attainment of Government’s goal of 90% household electrification by 2017 by developing and implementing specific policy measures and financial incentives to mobilize DUs in fast-tracking the connections of the remaining unelectrified households in both electrified (load centers and urban/slum areas) and unelectrified areas of their franchise areas.
PROJECT ACTIVITIES	<ol style="list-style-type: none"> (1) Strengthening of DUs’ marketing strategies and other measures for household electrification. (2) Streamlining of HH connection procedures and requirements.

	<ul style="list-style-type: none"> (3) Conduct of Policy Study on Slum Electrification, Flying Connections, and Related Issues. (4) Improving electrification planning by DUs and implementation of DOE's area-based HH electrification program. (5) Establishment of Grant Funds for the Electricity Access of the Poor Households. (6) Special Assistance for Electricity Re-Connections and Other Services for HHs Affected by Calamities. (7) LGU and DU Partnerships in Promoting Household Connections. (8) Monitoring and Evaluation.
MAJOR OUTPUTS	<ul style="list-style-type: none"> (1) Improved policies to support household electrification (2) Improved capacity of DUs to undertake holistic electrification planning (3) Improved capacity of Government to manage and monitor household electrification (4) Provision of electricity services to unelectrified households and households affected by calamities
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <ul style="list-style-type: none"> (1) Endorsed 7,647 households (combination of new connection and re-connection) for grant subsidies approval.

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PROJECT NAME	Oil Industry Deregulation Management Program
IMPLEMENTING UNIT/ OFFICE DIVISION	Oil Industry Management Bureau (OIMB)
LOCATION	Nationwide
DURATION	1997 – Continuing
PROJECT COST	Php 33,500,000.00 (approved appropriation for FY 2017)
DESCRIPTION	<p>Republic Act 8479 or the “Downstream Oil Industry Deregulation Act of 1998” has a main objective “to ensure a truly competitive market under a regime of fair prices, adequate and continuous supply of environmentally-clean and high quality petroleum products.” The passage of the law encouraged competition and the entry of new players in the market.</p> <p>In this regard, Oil Industry Deregulation Management Program Fund was allocated to ensure that the objectives are effectively implemented. The various programs, projects and activities under the Fund support the functions of the Oil Industry Management Bureau to include, formulation/development and monitoring of quality, safety and environmental standards to promote fair trade practices in order to ensure consumer protection.</p>
OBJECTIVES	<p>MAIN OBJECTIVE: To successfully implement the Downstream Oil Industry Deregulation Law</p> <p>SPECIFIC OBJECTIVES:</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 industries; (3) Promote awareness of the different stakeholders, i.e. industry players, LGUs, concerned government agencies, etc. on the rules and regulations governing the downstream 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; and, (6) Conduct studies/ researches relative to the improvement of the downstream oil industry.
PROJECT ACTIVITIES	<ol style="list-style-type: none"> (1) Monitoring and Enforcement - Focused inspection in retail level; and Petroleum product quality monitoring depot / bulk level) (2) Communication Advocacies / Initiatives - LGUs capacity building; and DOE – PIA Communication Initiatives (Conduct of Multi-Sectoral Advocacy for Communications Network, government

	<p>agencies, stakeholders in LF and LPG sub-sectors and LGUs.)</p> <p>(3) Public / Private Sector Partnership - Consultation and stakeholders' meeting with the Downstream Oil Industry (Steering committee on facility standards; and Technical committee on petroleum products standards)</p> <p>(4) Other Support Activities - IEC with the Academe; Development / Publication of Advertisements (Department Circulars, etc.); Conduct of other activities on DOI in support to the field offices; Bureau's continuous capacity building (Attendance to local and foreign seminars, conferences, and trainings; and Strategic planning and workshop); and Procurement of common office supplies, ICT and other supplies.</p>
MAJOR OUTPUTS	<p>(1) Conduct of Focused Inspections to target communities in Luzon, Visayas and Mindanao.</p> <p>(2) Multi-sectoral advocacies for communicators network of different sectors. <i>(Project fund realigned to accommodate rental for warehouse of confiscated liquid and LPG products.)</i></p> <p>(3) Stakeholder's consultations / meetings</p> <p>(4) Information Education and Communication Campaigns focused on Academe</p> <p>(5) Capacity Buildings / Workshop and Trainings</p>
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <p>(1) Exceeded the targeted one (1) Information, Education and Communication (IEC) Campaign on the Downstream Oil Industry (DOI) by conducting two (2) on the following Academe:</p> <ul style="list-style-type: none"> ▪ Malayan Colleges Laguna (MCL) - Cabuyao City; and, ▪ People's Center Auditorium - Biñan City; and, <p>(2) Two (2) supplies and equipment were procured out of the 11 targeted.</p>

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PROJECT NAME	Philippine Geothermal Resource Inventory and Assessment
IMPLEMENTING UNIT/ OFFICE DIVISION	Geothermal Energy Management Division - Renewable Energy Management Bureau (GEMD-REMB)
LOCATION	Nationwide
DURATION	January 2017 to December 2021
PROJECT COST	PhP 61,548,838.00 (Total Project Cost) PhP 5,540,000.00 (Approved Appropriation for FY 2017)
DESCRIPTION	<p>The project is a continuing initiative of GEMD to accelerate the development of geothermal energy resources especially the utilization of the low to medium temperature alongside with undiscovered high temperature geothermal resources, not only for possible power generation, but could also be viable for direct-use applications. This project is related to the locally funded projects- "National Inventory of Geothermal Resources, (1994-1998)" "Resource Assessment of Low-enthalpy Geothermal Resources of the Philippines (2007-2009", "Detailed resource assessment of selected low enthalpy geothermal areas in the Philippines, (2010-2015)" and Comprehensive Resource Assessment of Philippine Low-Enthalpy Geothermal Areas, (2015-present).</p> <p>The data to be produced from this project should then be made available to private investors for further studies and development through the Open and Competitive Selection Process for awarding of geothermal resources.</p> <p>The project is to be implemented in two phases:</p> <p>(1) 1st phase (2017-2018) – will be a nationwide inventory to update the existing database of Philippine geothermal resources and thermal manifestations. This database needs to be updated in terms of site validation and re-sampling of documented thermal manifestations.</p> <p>(2) 2nd phase (2019-2021) – shall be contracted-out to qualified service providers through the usual government procurement process to further assess the potential of the selected areas. Separate contract-out services will be implemented for:</p> <ul style="list-style-type: none"> ▪ Semi-detailed to detailed Geology and Geochemistry for up-to 6 geothermal areas subject to the results of the 1st phase. ▪ Geophysics and integrated resource assessment for up-to 3 geothermal areas subject to the results of the detailed geological and geochemical surveys.

OBJECTIVES	<p>Main Objective: The main objective of this project is to accelerate the development of indigenous geothermal energy resources that will contribute to the National Renewable Energy Plan of increasing geothermal energy capacity installations, both from conventional and binary technologies, by 2030 and promotion of direct-use applications of geothermal resources including.</p> <p>Specific Objectives:</p> <p>(1) To have an updated database of Philippine geothermal reserves and resources discussing the salient features of each geothermal prospect relative to its locations in the Philippines, geologic, geochemical and geophysical data.</p> <p>(2) To identify additional geothermal prospect areas.</p>
PROJECT ACTIVITIES	<p>(1) Literature Review</p> <p>(2) Coordination with the LGUs</p> <p>(3) Procurement of field supplies and equipment</p> <p>(4) Identification of geothermal resource potential through nationwide inventory</p> <p>(5) Integrated Geoscientific Study (Semi-detailed geology, geochemical and geophysical survey)</p> <p>(6) Discussion, acceptance or rebuttal of results and Report Writing</p>
UPDATES / ACCOMPLISHMENTS	<p><u>1st Quarter of 2017:</u></p> <p>(1) In the literature review, 30 geothermal prospects were identified. This figure exceeded the target number for the quarter, which is only 12; and,</p> <p>(2) Validated/ visited the following four (4) geothermal prospects, which exceeded the targeted three (3), for possible detailed geological and geochemical study:</p> <ul style="list-style-type: none"> ▪ Rizal and Laguna Provinces; ▪ La Union, Benguet, Mt. Provinces; ▪ Cagayan Province; and, ▪ Pangasinan and Nueva Vizcaya Provinces.