25th Electric Power Industry Reform Act (EPIRA) Implementation Status Report

(Period Covering May 2014 to October 2014)

Prepared by the
Department of Energy

With Contributions from

Energy Regulatory Commission
Philippine Electricity Market Corporation
National Power Corporation
National Electrification Administration
Power Sector Assets and Liabilities Management Corporation
National Transmission Corporation

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I. INTRODUCTION

Republic Act No. 9136 otherwise known as Electric Power Industry Reform Act (EPIRA) of 2001 or EPIRA has reached its thirteenth (13th) year of implementation in June 2014. There were significant achievements but the envisioned end result of achieving an efficient electric power industry that ensures energy supply security at reasonable cost remains to be a great challenge. The government has to take necessary actions to balance the interests of the different industry participants and stakeholders.

The 25th Status Report on the EPIRA implementation covering the period of May 2014 to October 2014 highlights the following:

- Activities completed for the privatization of remaining National Power Corporation's (NPC) generating assets and Independent Power Producers (NPC-IPP) contracts with the bidding for Power Barges (PBs) 101, 102, 103 and 104, Naga Power Plant Complex (NPPC), and transfer of contract under Unified Leyte Geothermal Power Plant (ULGPP) to an Independent Power Producer Administrator (IPPA);
- Report on National Grid Corporation of the Philippines' (NGCP) compliance to the Concession Agreement with the submission of summary of findings and recommendations by the Technical, Regulatory, Financial, Legal Assessment Team (TRFLAT) in their report on the assessment of NGCP's compliance with the provisions of the CA for CY 2012 to the Presidents of National Transmission Corporation (TransCo) and Power Sector Assets and Liabilities Management (PSALM);
- Continuing turn-over to qualified Distribution Utilities (DU) of the sub-transmission assets (STAs) of the TransCo which has signed one hundred nine (109) sale contracts with seventy nine (79) DUs/Electric Cooperatives (ECs)/consortia amounting to about PhP5.9 billion;
- Updates on electricity rates to include average electricity rates such as the summary of MERALCO residential unbundled power rates and list of ERC Decisions on DU's Rate Applications, updates on universal charge, loan condonation, lifeline rates and mandatory rate reduction;
- Updates on wholesale electricity spot market (WESM) operations and governance to include operational higlights on price, supply demand, and governance aspects;
- Updates on Interim Mindanao Electricity Market (IMEM) including the promulgation of DOE Department Circular DC2014-05-0010 entitled "Amending the Interim Mindanao Electricity Market Rules and Providing for Transitory Arrangements";
- Monitoring compliance to installed capacity limitation under *Section 45 of the EPIRA* highlighting the report on computation of the market share of generators which has been based on the recent developments such as the privatization of the Angat Hydro Electric Power Plant (AHEPP) and Naga Land-Based Gas Turbine (NLBGT);
- Updates on the implementation of retail competition and open access (RCOA) which highlights the summary of RCOA registration and retail market transaction status;
- Power supply-demand situation/outlook including reports on the significant Incidents in the power system, outages for 2014, and various initiatives of the Department of Energy (DOE) being undertaken in compliance with *Section 71 of the EPIRA;* and
- Electrification status to include the 99.98% achievement of the total potential barangay nationwide under the establishment of Expanded Rural Electrification Program (ER Program).

II. PRIVATIZATION

For the report period, PSALM pursued the bidding for Power Barges (PBs) 101, 102, 103 and 104, Naga Power Plant Complex (NPPC), and transfer of contract under Unified Leyte Geothermal Power Plant (ULGPP) to an Independent Power Producer Administrator (IPPA). For the other remaining plants and NPC-IPP contracts, following are the latest status:

A. Privatization of Generating Assets

Angat Hydro Electric Power Plant (HEPP)

Korea Water Resources Corporation (K-Water) has completed the submission of documents to the Bangko Sentral ng Pilipinas (BSP) for the registration of its loan for the payment of the Angat HEPP. On 21 July 2014, K-Water obtained the BSP approval of its loan registration. PSALM turned over Angat HEPP to K-Water/AHC on 31 October 2014.

Power Barges (PBs) 101, 102, 103 and 104

SPC Island Power Corporation (SIPC) was the winning bidder for the sale of PBs 101-103 and has accepted the Certificate of Effectivity from PSALM last 19 November 2013. However, on 13 March 2014, SIPC requested the termination of the APA because of the material change in the condition of PB 103 and likewise requested the return of its performance bond. With this, the PSALM requested the Office of the General Counsel (OGC) render a legal opinion on whether SIPC will forfeit its Performance Bond subject to the appraisal of the damage sustained by PB 103. In a related effort, PSALM's Asset Management Group (AMG) conducted an inspection and appraisal of PB 103 after completion of the tank cleaning activities at Keppel Subic Shipyard, Inc. (KSSI). The results of the appraisal has been forwarded to OGC for purposes of the issuance of the abovementioned legal opinion.

Meanwhile, Trans-Asia Oil and Energy Development Corporation (Trans-Asia), the second highest bidder for PBs 101 – 103, offered to purchase the barges on a negotiated basis, subject to conditions. PSALM requested the opinion of the Office of the Government Corporate Counsel (OGCC) on whether it may enter into negotiations for the disposal of PBs 101-103.

On 02 July 2014, the OGCC issued an opinion that PSALM can conduct negotiation subject to the guidelines of the Commission on Audit (COA), which provide that in case of failed bidding, the offered price should be above the reserve price or the highest bid whichever is higher. PSALM, however, observed some inconsistencies between the COA guidelines and the OGCC opinion because the latter said there was no failed bidding and yet the COA guidelines cited apply to failed bidding. In this regard, PSALM requested clarification from the OGCC on whether the COA guidelines can be used in a directory manner.

In its clarificatory opinion dated 03 September 2014, the OGCC noted the following:

- Sale thru negotiation, as a mode of disposal of government assets, may be resorted to for justifiable reasons as demanded by the exigencies of the service, taking into consideration the factors enumerated in Section 2(a) of the COA Circular;
- If PSALM finds some of the requirements to be inapplicable, then the COA Circular may be used in a directory manner for so long as the government gets the best price for the PBs; and

- RA 9136 is the primary law governing PSALM's sale, disposition and privatization of NPC's generation assets, real estate and other disposable assets which mandates PSALM to, among others, secure for the government terms and conditions of the sale which will optimize the value and sale prices of the assets.

On 04 September 2014, the PSALM Board, after due deliberations, approved the negotiated sale of PBs 101-103 to Trans-Asia subject to the following conditions:

- Negotiated price shall be PhP 420 Million;
- Repair of PB 103 shall be for the account of Trans-Asia;
- Insurance proceeds of the repair shall be assigned to Trans-Asia; and
- National Government shall not spend further for the potential repairof PB 103.

In several meetings with Trans-Asia following the PSALM Board's approval of the negotiated sale, and Trans-Asia's subsequent ocular inspection of PBs 101-103, Trans-Asia confirmed its willingness to consummate the negotiations at the asset purchase price of PhP 420 million, subject to the following:

- Trans-Asia shall undertake the repair of PB 103;
- Trans-Asia shall tow PB 103 from Keppel Subic Shipyard to a mooring facility of its choice;
- PSALM shall assign the proceeds of the Industrial All Risk (IAR)Insurance Policy with GSIS (FI-IAR-GSISHO-0000102) to Trans-Asia corresponding to the repair of PB 103; and
- PSALM shall keep Trans-Asia whole such that any expenditure byTrans-Asia for the dry-docking and repair not covered by the insurance proceeds shall be reimbursed by PSALM within 90 to 120 days.

In meetings with GSIS following the PSALM Board's approval of the negotiated sale, GSIS advised that:

- The assignment of the insurance proceeds is possible and GSIS would only require PSALM to: (i) endorse Trans-Asia as co-assured; and (ii) inform GSIS the mechanics on how PSALM would want to implement the assignment of the insurance proceeds;
- The actual amount to be reimbursed by GSIS would still depend on the evaluation of the claims by their re-insurers;
- The VAT-component of the repair costs is not reimbursable; and
- GSIS will endeavor to release proceeds from claims within ninety (90) days.

On 30 October 2014, the PSALM Board Review Committee (BRC), recommended to put a cap of PhP 20,000,000.00 to Trans-Asia's condition for PSALM to keep it whole, and instructed PSALM Management to relay the same to Trans-Asia as PSALM's counter proposal.

In a meeting on 31 October 2014, PSALM relayed to Trans-Asia the counter proposal.

Naga Power Plant Complex (NPPC)

The bidding for NPPC was conducted last 31 March 2014 with Therma Power Visayas, Inc. declared as the highest bidder with its bid of PhP1.09 billion. However, the condition of the sale provides that SPC Power Corporation has the "right to top" the price of the winning bidder for the Naga Power Plant by five percent (5%), as provided under the Land Lease Agreement executed between PSALM and SPC in 2009 for the Naga Land-based Gas Turbine. In this regard, SPC has exercised its Right to Top the Winning Bid prior to the deadline with Therma Power Visayas, Inc. was notified through a Notice dated 29 April 2014. The matter was consulted with the OGCC which then provides that SPC may exercise its right to top in accordance with the 2009 Land Lease Agreement (LLA).This was further affirmed by the Department of Justice (DOJ) which opined that SPC would be able to properly perform its obligations under the NPPC Asset Purchase Agreement (APA) within the 25-year period, thereby contributing to the quality, reliability, security and affordability of the supply of electric power. In addition, the privatization value of the Naga Power Plant is optimized with the exercise by SPC of its right-to-top the winning bid of TPVI by five percent (5%).

The PSALM Board, in its meeting on 25 July 2014, approved the issuance of the NOA and the COE to SPC.On 30 July 2014, PSALM issued the NOA and the COE to SPC. PSALM turned over the Naga Power Plant to SPC on 25 September 2014.

Sucat Thermal Power Plant (STPP)

The sale of STPP last 31 March 2014 to Genetron International Marketing (GIM) which bid PhP602 million was terminated by PSALM on 23 June 2014. The termination was due to a material deviation of the Standby Letter of Credit (SBLC) from that of PSALM's standard form as provided in the Bidding Procedures and APA. Further, it was gathered that the said SBLC was not issued by J.P. Morgan upon verification with the bank's various personnel. GIM acknowledged the notice of termination on 28 July 2014. As of the report period, PSALM is working on the improvements of Bidding Procedures and draft APA for the eventual rebidding of STPP.

As to PSALM's latest privatization targets for the NPC plants in Luzon and Visayas, schedules are shown in Table No. 1.

Table 1. Schedule of Privatization for Generating Assets as of 31 October 2014

Asset Type	Plant Name	Rated Capacity (MW)	Bid Date	Turn Over Date
Owned Generating Plants				
	Malaya Thermal	650.00	Privatization is subject to DOE policy	
	PB 101 (Diesel/Bunker)	32.00	2nd Semester 2014	1st Semester 2015
	PB 102 (Diesel/Bunker)	32.00		
	PB 103 (Diesel/Bunker)	32.00		
	PB 104 (Diesel/Bunker)	32.00		
	Agus 1 & 2 Hydro	260.00	2017 Subject to consultation with Congress as provided under the EPIRA	
	Agus 4 & 5 Hydro	213.10		
	Agus 6 & 7 Hydro	254.00		
	Pulangui Hydro	255.00		
Decommissioned Plants				
	Bataan Thermal	-	Sale/disposal is subject to resolution of cases involving the asset	
	Sucat Thermal	-	2nd Semester 2014	1st Semester 2015

Source: PSALM

B. Transfer of NPC Contracted Energy Outputs from its IPPs to IPP Administrators

Unified Leyte Geothermal Power Plant (ULGPP)

PSALM and the winning IPP Administrators (IPPAs) for the Strips of Energy are currently processing their respective condition precedents and documentation necessary prior to the effectivity of the IPPA Administration Agreement. The turnover of the strips to the IPPAs is scheduled by the 4th quarter 2014 since the Force Majeure Event was already lifted by the Energy Development Corporation (EDC).

The PSALM BRC recommended for the Board's approval the commencement of the 2nd round of bidding for the selection and appointment of IPPA for the Bulk Energy of ULGPP, with target bidding by 2nd semester 2015.

Mindanao I and II (Mt. Apo 1 and 2) Geothermal Power Plants

On 24 September 2014, PSALM conducted the bidding for the selection and appointment of the IPPA for the output of Mt. Apo 1 and 2. Out of the seven (7) prequalified bidders, two (2) submitted bids before the 12:00 noon bid submission deadline set by PSALM. FDC Misamis Power Corporation was declared as the highest bidder with a bid of PhP128 million while the second bidder, SMC Global Power Holdings Corporation, submitted a bid of PhP50 million.

PSALM will deregister its membership in the Interim Mindanao Electricity Market (IMEM) for Mt. Apo 1 and 2 power plants effective 26 December 2014. Thereafter, FDC Misamis will register as member in the IMEM.

PSALM and FDC Misamis are currently completing its respective condition precedents prior to the effectivity of the IPPA Administration Agreement. The turnover of the output of Mt. Apo 1 and 2 to FDC is scheduled on 26 December 2014.

Meanwhile, for the remaining NPC-IPP contracts for trasfer to IPPA, Table 2 shows the indicative schedule as of 31 October 2014.

Table 2. Indicative Schedule for Appointment of IPP Administrators as of 31 October 2014

Grid	Plant Name	Contracted Capacity (MW)	Bid Date	Turn Over Date
Luzon Grid	Casecnan Multi-Purpose Hydro	140.00	Privatization under study/evaluation	
	Benguet Mini Hydro	30.75	IPP contract to expire in January 2018	
	Caliraya-Botocan-Kalayaan Hydro	728.00	2nd Semester 2016	1st Semester 2017
	Sub-total Luzon	**898.75**		
Visayas Grid	Unified Leyte Strips Energy Bulk Energy	559.00	 4th Quarter 2013 2nd Semester 2015	 2nd Semester 2014 2nd Semester 2015
	Sub-total Visayas	**559.00**		
Mindanao Grid	SPPC Diesel	50.00	IPP contract will expire in 2016	
	WMPC Diesel	100.00	IPP contract will expire in 2015	
	Mindanao Coal-Fired	200.00	2nd Semester 2015	2nd Semester 2015
	Mt. Apo 1 Geothermal	44.52	2nd Semester 2014	2nd Semester 2014
	Mt. Apo 2 Geothermal	48.00		
	Sub-total Mindanao	**442.52**		
	GRAND TOTAL	**1,900.27**		

Source: PSALM

C. Privatization Proceeds

As of the report period, PSALM generated total proceeds of US$19.9 billion while actual collection amounted to US$9.3 Billion.The proceeds were utilized for debt prepayment, regular payment of debts and IPP obligations, and payment of other privatization-related expenses with details indicated in Table 3.

Table 3. Generated and Collected Proceeds of Privatization as of 31 October 2014, (in US$Billion)

Privatization Assets	Generated	Collected	Balance
Generating Assets[1/]	3.534	3.534	0.000
Decommissioned Plants[2/]	0.004	0.004	0.000
Transmission Asset (TransCo)	6.383	3.772	2.611
Appointment of IPPAs[4/]	9.957	1.956	8.001
TOTAL	**19.878**	**9.266**	**10.612**

1/ Amounts generated consist of financial bid based on Schedule C of the Asset Purchase Agreement (APA) and interest earned from deferred payments.

2/ Net of the final adjustment to Project Under Construction and Initial Working Capital. For comparability, actual Peso received was converted to USD using the PhP42.75/USD forex rate (pursuant to Section 6.03 of the Concession Agreement [CA]) plus actual interest earned (10-year PDSTF rate considered in the tariff regulatory reset + 230 basis points) and the expected interest to be earned until the end of the Concession Agreement using the latest available PDSTF rate + 230 basis points. The collected amount already includes the prepayment made by NGCP in the amount of USD1,353,989,545.00, received by PSALM in July 2013.

Source: PSALM

Out of the US$9.1 billion privatization proceeds utilized, US$7.8 billion was used for the liquidation of financial obligations. The difference between the total amount collected and total utilization in the amount of US$1.156 billion is placed in temporary investments while awaiting utilization.

Table 4. Utilization of Privatization Proceeds as of 31 October 2014

Privatization Proceeds Utilized	In US$ Billion
Debt Prepayment	1.298
Regular Debt Service	4.466
Lease Obligations	2.027
Others	0.107
TRANSCO Opex	0.001
Temporary Investment	1.156
TOTAL	**9.055**

US$:PhP = 44.966 (BSP Guiding Rate dated 30 April 2014)

Source: PSALM

D. Concession of the National Transmission Network

The concession of the national transmission network is being monitored by TransCo and PSALM pursuant to the Concession Agreement, Republic Act No. 9511 or the Franchise Law and the Construction Management Agreement (CMA).

On 02 June 2014, the Technical, Regulatory, Financial, Legal Assessment Team (TRFLAT) submitted its Report on the assessment of NGCP's compliance with the provisions of the CA for CY 2012 to the Presidents of National Transmission Corporation (TransCo) and PSALM.

The following is the summary of findings of the TRFLAT:

Assessment Findings	Number of Findings
Complied	50
Not Complied	9
Partial Compliance	10
Continuing Compliance	2
No Basis to Assess Compliance	14
Not Applicable	2
Total	**87**

Based on these findings, the following are the recommendations of the TRFLAT:

a. A continuous annual assessment of NGCP's compliance with the provisions of the CA is an effective way to monitor its compliance. However, the outcome of the report, particulary those found to be "not complied" and "partially complied" should be given special attention and continuously be monitored;
b. For PSALM and TransCo to demand NGCP's compliance on the items identified as "Not Complied" and "Partial Compliance" within a period of ninety (90) calendar days from NGCP's receipt of the letter demanding compliance; and
c. Depending on NGCP's action on Item No. 2 above, the assessment report should be referred to the DOE for its consideration and proper action.

Further, TransCo conducted inspection of the assets condition and PUC accomplishments consistent with the inspection protocol established with the concessionaire. For January-October 2014, TransCo has conducted inspection of ten (10) of the projects and forty-four (44) transmission facilities.Observation Reports were forwarded to the Concessionaire for their corrective actions. Annex A shows the summary of observations and responses of the Concessionaire.

With regard to NGCP's compliance to CMA, TransCo conducted inspections of PUCs and new projects' summary of observations and the responses of the Concessionaire as shown in Annex B.

E. Sale of Sub-Transmission Assets (STAs)

The sale of TransCo's STAs involves one hundred thirty one (131) sale contracts and one hundred seven (107) interested distribution utilities, most of which are electric cooperatives (ECs). The STAs include some 5,900 ckt-km of mostly 69 kV transmission lines and 1,600 MVA of substation capacity.

As of October 31, 2014, TransCo has signed one hundred nine (109) sale contracts with seventy nine (79) distribution utilities(DUs)/ECs/consortia amounting to about PhP5.9 billion. These sales cover an aggregate length of about 4,000 ckt-kms of sub-transmission lines and about 36,200 sub-transmission structures and 865 MVA of substation capacity. Of the one hundred nine (109) sale contracts, fifty one (51) contracts with total sale price of about PhP 2.7[1] billion have been approved. However,

[1] *The total ERC approved amount of P 2.753 Billion is lower compared to the total contract amount of PhP3.03 Billion due to the following reasons:*
a) Exclusion of some assets from the ERC approval due to reclassification from sub-transmission to transmission assets
b) The lower amount of valuation was used as basis of the ERC approval

two (2) contracts with a total amount of PhP29.2 million were disapproved and one contract amounting to P 24.2 million was withdrawn by the ERC. The rest of the sale contracts are for filing with the ERC and for ERC's evaluation and approval.

Following the EPIRA provision to extend concessional financing to ECs, TransCo implemented lease purchase arrangements with a term of twenty (20) years. Of the one hundred nine (109) sale contracts already signed, sixty seven (67) are under lease purchase agreements with fifty nine (59) ECs/consortia, valued at about PhP3.9 billion. The remaining forty two (42) involved sales to private DUs/consortia.

TransCo is looking forward to the sale of about 160 ckt-km of sub-transmission lines and about 25 MVA of substation equipment to six (6) interested DUs/consortia for the next two (2) years.

Table 5 below shows the summary of the sale as of the report period.

Table 5. Summary Table of STAs Sale Per Region as of 31 October2014

	DUs	Sale Amount in PhP (Original Contract)	CKM
North Luzon	34	1,659,041,373.27	1,272
South Luzon	17	1,120,511,843.37	467
Visayas	27	1,168,202,902.00	685
Mindanao	31	1,913,027,055.63	1,598
TOTAL	**109**	**5,860,783,174.27**	**4,022**

Source: Transco

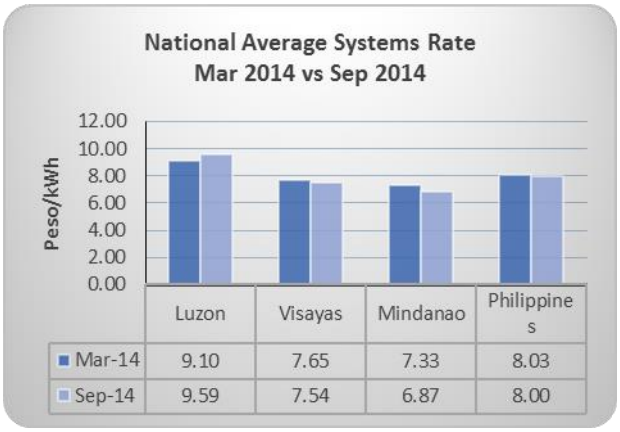
c) Exclusion of some assets from the ERC approval since said assets are not yet connected to the sold assets
d) Exclusion of some assets from the ERC approval due to decommissioning
e) DU withdrawal from the ERC Joint Application of the sale contract
f) The STA in the sale contract should be sold to a consortium instead of a single DU because the STA is in a super loop configuration.

III. ELECTRICITY RATES

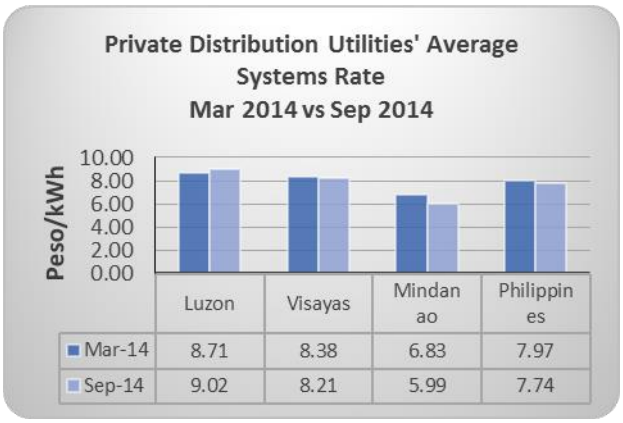
This Section provides updates on electricity price data and other significant related developments based on information from the ERC, TransCo, PSALM, NPC and distribution utilities, among others.

A. Distribution Utilities' Electricity Rates Data and Regulatory Updates

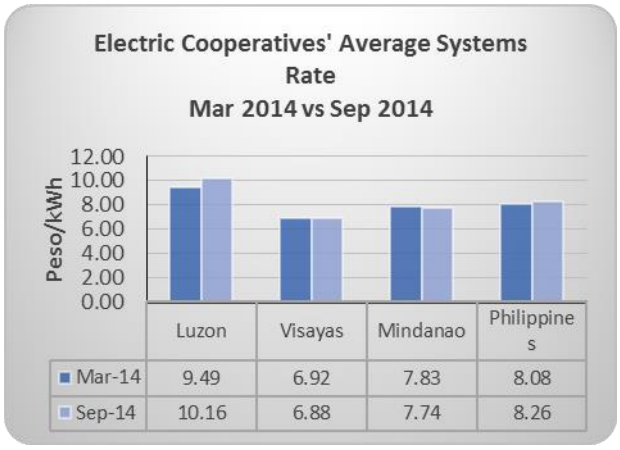
The country's average electricity rates as of September 2014 is PhP8/kWh, PhP0.03 lower compared with the March 2014 national average systems rate. Among the three major grids, Luzon has the highest rate at PhP9.59kWh while Mindanao remains the lowest at PhP6.87/kWh for September 2014. However, the only increase in rates were posted in the Luzon grid from PhP9.10/kWh in March 2014 to PhP9.02/kWh in September 2014 or an increase of PhP0.32/kWh.



Meanwhile, the national average systems rates of private DUs posted a reduction of PhP0.23/kWh from PhP7.97/kWh in March 2014 to PhP7.74/kWh in September 2014 despite the increase in Luzon grid rates from PhP8.71/kWh to PhP9.02/kWh in the same period.



The ECs' average systems rate for September 2014 is PhP8.26/kWh, an increase of PhP0.18 from March 2014. The largest increase was noted in the Luzon grid at PhP9.49/kWh in March 2014 to PhP10.16/kWh in September 2014.



The ECs' national average unbundled residential electricity rate for June 2014 was PhP 9.8260/kWh. Generation costs comprised 50 percent of ECs' national average effective electricity rates followed by distribution costs share of eighteen percent (18%). Among the three grids, Mindanao remained to enjoy the lowest generation costs at PhP3.96/kWh considering that this remains highly regulated NPC generation rate and electricity are produced mostly from hydro electric power plants. Visayas grid has the highest average effective residential electricity rates at PhP10.62/kWh of which generation costs comprise fifty three percent (53%). Among the

grids, distribution costs is the next largest component of electricity cost followed by transmission costs.

Table 6. EC's Unbundled Average Effective Residential Electricity Rates, June 2014 (PhP/kWh)

Bill Subgroup	LUZON		VISAYAS		MINDANAO		NATIONAL	
	PhP/kWh	Percent share	PhP/kWh	Percent share	PhP/kWh	Percent share	PhP/kWh	Percent share
Generation	5.0897	50.09	5.6504	53.19	3.9615	45.57	4.9005	49.87
Transmission	1.0787	10.62	0.8658	8.15	1.0020	11.53	0.9822	10.00
System Loss	0.8765	8.63	0.9050	8.52	0.7162	8.24	0.8326	8.47
DSM[1]	1.6931	16.66	1.8190	17.12	1.6805	19.33	1.7309	17.62
RFSC[2]	0.3251	3.20	0.3459	3.26	0.4552	5.24	0.3754	3.82
Other Charges[3]	(0.0712)	(0.70)	0.0674	0.63	(0.1434)	(1.65)	(0.0491)	(0.49)
Subsidy Charges[4]	0.0654	0.64	0.0671	0.63	0.0830	0.95	0.0718	0.73
Universal Charges[5]	0.3159	3.11	0.3142	2.96	0.3350	3.85	0.3217	3.27
Other Taxes[6]	0.0812	0.80	0.0205	0.19	0.0642	0.74	0.0553	0.56
VAT	0.7067	6.95	0.5685	5.35	0.5388	6.20	0.6047	6.15
Total	**10.1611**	100.00	**10.6238**	100.00	**8.6930**	100.00	**9.8260**	100.00

[1] Distribution, Supply and Metering Charges
[2] Reinvestment Fund for Sustainable CAPEX
[3] Loan Condonation & PEMC-SPA Charge
[4] Lifeline & Senior Citizen Subsidy/Discount
[5] Missionary Electrification, Environmental Charges, NPC Stranded Cost
[6] Local Franchise &Business Taxes, Real Property Tax
Source: NEA

Meanwhile, for the September 2014 billing of MERALCO, its effective residential rates for the different residential customer classes ranged from PhP10.36/kWh to PhP11.72/kWh of which the highest component was generation costs at PhP5.19/kWh. MERALCO distribution charges for its different residential customer classes comprised 21 to 29 percent of the total effective residential rates equivalent to PhP2.20/kWh and PhP3.41/kWh, respectively. Systems loss charges on the other hand was 56-centavos. It can be noted that from January 2013 to September 2014, MERALCO's highest effective residential rates occurred on December 2013. However, since the same period onwards, the rate significantly reduced in the succeeding months.

Table 7. Summary of MERALCO Residential Unbundled Power Rates, September 2014 (PhP/kWh)

BILL SUBGROUP	0 to 200 kWh	% Share	201 to 300 kWh	% Share	301 to 400 kWh	% Share	Over 400 kWh	% Share
Generation	5.1937	50%	5.1937	48%	5.1937	49%	5.1937	44%
Transmission	0.9225	9%	0.9225	9%	0.9225	8%	0.9225	8%
System Loss	0.5566	5%	0.5566	5%	0.5566	5%	0.5566	5%
Distribution	2.2045	21%	2.5220	24%	2.8393	24%	3.4147	29%
Subsidies*	0.1223	1%	0.1223	1%	0.1223	1%	0.1223	1%
Universal Charge	0.3524	3%	0.3524	3%	0.3524	3%	0.3524	3%
Government Taxes	1.0097	10%	1.0496	10%	1.0895	10%	1.1616	10%
TOTAL	**10.3617**	**100%**	**10.7191**	**100%**	**11.0763**	**100%**	**11.7238**	**100%**

As regard to regulatory actions, for the PDUs, the ERC has decided on three (3) cases for PDUs' rate applications relative to the implementation of Performance-Base Rate Methodology for PDUs as summarized in Table 8. It can be noted that the ERC has approved minimal changes which are mostly true-up/down on the distribution rates of Panay Electric Company (PECO), Clark Electric Development Corporation (CEDC), Angeles Electric Company (AEC) and Bohol Light and Company, Inc.

Table 8. List of ERC Decisions on DU's Rate Applications for the Period May 2014 - October 2014

DU	Case Number/ Date of Filing	Regulatory Period	Previous Rates (RY 2013 Rate-PhP/kWh)	ERC Approved (RY 2014 Rate-PhP/kWh)	Increase/ Decrease (RY 2014 Rate-PhP/kWh)	Date of Final Decision
IEEC	2013-047 RC/ March 25, 2013	2010-2014	2.0420	2.5834	0.5414	July 21, 2014
SEZ	2013-204 RC/ Oct. 18, 2013	2011-2015	1.5007	1.5053	0.0046	April 7, 2014
SFELAPCO	2013-210 RC/ Oct. 31, 2013	2012-2015	1.7227	1.6613	(0.0614)	July 21, 2014

For the ECs, conduct of public consultations are still on-going with regard to the petition filed by Philippine Rural Electric Cooperatives Association (PHILRECA) for the adoption of the proposed "Rules Governing the Collection from the Consumers of the Cost of Payment Guarantees for the Power Supply Contracts and Transmission Service Agreements Entered into by Electric Cooperative".

As previously reported, upon approval of this petition, a tariff mechanism will be adopted to address the cash flow problems of the ECs arising from the imposition of the security deposit and prudential requirements.

According to PHILRECA, unlike those of the private DUs, the existing tariff of the ECs does not provide for surplus funds by way of or in the form of a return on rate base and depreciation. Thus, while the private DUs can exercise certain degree of flexibility by charging the prudential and security deposit requirements against their surplus funds, the ECs are constrained to fund the same from their meager internally generated funds and in certain instances, from loans obtained from the National Electrification Administration (NEA) and other financial institutions.

B. Transmission Rates Regulatory Updates

The following are the updates on transmission rate filed by NGCP for approval of the ERC:

1. ERC Case 2013-202 RC (filed on October 17, 2013), In the Matter of the Application for the Approval of the Maximum Allowable Revenue for the Calendar Year 2014 and the Net Performance Incentive for 2013 Under the Rules for Setting the Transmission Wheeling Rates, with Prayer for Provisional to:
    a. Immediately GRANT provisional authority to implement the collection of the MAR2014 in the amount of PhP42.5 billion and the PIS 2013 of PhP754.69 million and the System Operator and Metering Service Provider Charges beginning the billing period of 26 December 2013 – 25 January 2014.
    b. APPROVE the authority to collect the MAR 2014 in the amount of PhP42.5 billion and the PIS2013 of PhP754.69 million and the System Operator and Metering ServiceProvider Charges.
    c. APPROVE the fifty percent (50%) of PhP24.30Mn or the equivalent of PhP12.15 million as RBRt from co- location and rental of equipment.
    d. DEFER the setting of the ASAI parameters until the end of the Third (3rd) Regulatory Period.

The jurisdictional and expository hearing for the Luzon was conducted on December 10, 2013 while the expository hearing for Mindanao and Visayas were conducted on December 11 & 12, 2013, respectively.

On January 14, 2014, the Pre-trial Conference was conducted and terminated. ERC manifest that it willissue a consolidated Pre-Trial Brief before setting the date for the evidentiary hearing.

On August 27, 2014, the evidentiary hearing was conducted and the cross examination by the interveners were terminated but the Commission made a reservation that in case that ERC need more clarification they will issue an order to recall the witness. On September 12, the NGCP filed its Formal Offer of Evidence (FOE).

2. ERC case 2014 -155 RC (filed on October 17, 2014) In the Matter of the Application for the Approval of the Maximum Allowable Revenue for the Calendar Year 2015 and the Net Performance Incentive for Calendar Year 2014 Under the Rules for Setting the Transmission Wheeling Rates, with Prayer for Provisional Authority to:
    a. Immediately GRANT provisional authority to implement the collection of the MAR2015 in the amount of PhP43.1 billion, the PIS2014 of PhP923 million, and the corresponding System Operator and Metering Service Provider Charges beginning the billing period of 26 December 2014 to 25 January 2015;
    b. APPROVE, after notice and hearing, the collection of the MAR2015 in the amount of PhP43.1 billion, the PIS2014 of PhP923 million and the corresponding System Operator and Metering Service Provider Charges;
    c. APPROVE the fifty percent (50%) of PhP15.1 million or the equivalent of PhP7.54 million as RBRt from co- location and rental of equipment;

    As of this report, TransCo is awaiting ERC's Order/Notice of Hearing.

3. ERC case 2014 -127 RC (filed on August 29, 2014) In the Matter of the Application of the National Grid Corporation of the Philippines for the Approval of Force Majeure (FM) Event regulated FM pass through for sabotage

    a. GRANT Provisional Approval to implement and bill the FM Pass-Through Amounts to Luzon and Mindanao customers starting October 2014 billing month to December 2015 billing month or until such time that the amount incurred is fully recovered;
    b. DECLARE the sabotage incidents and landslide due to continuous heavy rains in Mindanao, and Typhoons Santi and Vinta in Luzon as Force Majeure Events (FME);
    c. APPROVE the CAPEX incurred for the restoration, rehabilitation andrepair of the damaged transmission assets and other related facilities due to the sabotage incidents and landslide due to continuous heavy rains in Mindanao, and Typhoons Santi and Vinta in Luzon as FMEs;
    d. APPROVE the proposed pass- through amount representing return on capital, return of capital and taxes associated with emergency responses and the repair and rehabilitation of facilities damaged due to the said events, as shown in the next page:

Grid	2014	2015
Luzon	0.0338	0.0083
Mindanao	0.2830	0.0703

e. APPROVE and ALLOW the recovery of the Net Fixed Asset Value of the transmission assets and other related facilities damaged by the sabotage incidents and landslide due to continuous heavy rains in Mindanao, and Typhoon Santi and Vinta in Luzon, as FMEs during the fourth (4th) Regulatory Period given that the said transmission assets and other related facilities have not been damaged or destroyed by said FMEs; and
f. EXCLUDE the proposed Pass-Through Amount from the side constraint calculation.

As of this report, TransCO is awaiting ERC's Order/Notice of Hearing.

4. ERC case 2014-060 RC (filed on May 13, 2014), In the Matter of the Application for the Approval of the Malita-Matanao 230 kV Transmission Line Project, with Prayer for the Issuance of a Provisional Authority to:

    a. ISSUE, immediately upon filing of the Application, a Provisional Approval for the implementation of the Malita – Matanao 230 kV Transmission Line Project; and
    b. APPROVE, After Notice and hearing, the application for the implementation of the Malita – Matanao 230 kV Transmission Line Project and render judgment making provisional approval permanent.

    On July 8, 2014, the jurisdictional, expository, pre-trial and evidentiary hearing were conducted. NGCP was directed to file its FOE within ten (10) days.

5. ERC case 2014-057 RC (filed on May 9, 2014), In the Matter of the Application for the Approval of the Bataan-Cavite/Metro Manila Transmission Line Project (Phase 1), with Prayer for Provisional Authority.

    a. Immediately ISSUE an Order provisionally approving the implementation of the Bataan- Cavite/Metro Manila Transmission Line (Phase 1) project pending final approval; and
    b. APPROVE, After Notice and hearing, the application for the implementation of the Bataan- Cavite/Metro Manila Transmission line (Phase 1) Project.

    On July 1 & 17, 2014, jurisdictional hearing, expository presentation, pre-trial conference and evidentiary hearing were conducted and NGCP was directed to submit its Formal Offer of Evidence within fifteen (15) days.

6. ERC case 2014-024 RC (filed on March 20, 2014), In the Matter of the Application for the Approval of the Eastern Panay Transmission Line Project, with Prayer for Provisional Authority.

    a. Immediately ISSUE an Order Provisionally Approving the implementation of the Eastern Panay Transmission Line Backbone; and
    b. APPROVE, After Notice and hearing, the application for the implementation of the Eastern Panay Transmission Line Backbone.

On May 27, 2014, the jurisdictional,expository, pre-trial and evidentiary hearing were conducted. NGCP was directed to file its Formal offer of Evidence within fifteen (15) days.

7. ERC case 2014-017 RC (filed on February 25, 2014), In the Matter of the Application for the Pasay 230 kV Substation Project, with Prayer for the Issuance of a Provisional Authority.

    a. ISSUE, immediately upon filing of the Application, a Provisional Approval for the implementation of the Pasay 230 kV Substation Project; and
    b. APPROVE, after Notice and hearing, the application for the implementation of the Pasay 230 kV Substation Project and render judgment making provisional approval permanent.

    On June 5, 2014, the jurisdictional & pre-trial hearing were done while the expository and evidentiary hearing was conducted and terminated on July 3, 2014. NGCP was directed to submit its FOE within fiftenn (15) days.

8. ERC case 2014-016 RC (filed on February 25, 2014), In the Matter of the Application for the Approval of the Hermosa– Floridablanca 69 kVLine Project, with Prayer for the Issuance of a Provisional Authority.

    a. immediately ISSUE an Order Provisionally Approving the implementation of the Hermosa - Floridablanca 69 kV Line Project; and
    b. APPROVE, after Notice andhearing, the application for the implementation of the Hermosa - Floridablanca 69 kV Line Project.

    On May 28, 2014, the jurisdictional, expository, pre-trial and evidentiary hearing were conducted. NGCP was directed to file its Formal offer of Evidence within twenty (20) days.

9. ERC Case 2014-015 RC (filed on February 25, 2014), In the Matter of the Application for the Approval of the La Trinidad – Calot 69 kV Line Project, with Prayer for the Issuance of a Provisional Authority.

    a. ISSUE, immediately upon filing of the application, a provisional approval for the implementation of the La Trinidad – Calot 69 kV Line Project; and
    b. APPROVE, After Notice and hearing, the application for the implementation of the La Trinidad – Calot 69 kV Line Project and render judgment making Provisional Approval permanent.

    On May 22, 2014, the jurisdictional, expository, pre-trial and evidentiary hearing were conducted. NGCP was directed to file its Formal Offer of Evidence within twenty (20) days.

10. ERC Case 2014-014 RC (filed on February 25,2014), In the Matter of the Application for the Approval of the Submarine Fiber Optic Cable: Sorsogon-Samar Interconnection Project, with Prayer for Provisional Authority.

a. Immediately ISSUE an Order provisionally approving theimplementation of the Submarine Fiber Optic Cable: Sorsogon-Samar Interconnection Project pending final approval; and
b. APPROVE, After Notice and hearing, the application for the implementation of the Submarine Fiber Optic Cable: Sorsogon-Samar Interconnection Project.

On May 21, 2014, the jurisdictional, expository, pre-trial and evidentiary hearing were conducted. NGCP was directed to file its Formal Offer of Evidence within twenty (20) days.

C. Generation Costs

This Section contains updates/developments affecting generation costs imposed to consumers as pass-through charges.

1. November-December 2013 WESM Prices

Relative to the ERC Order dated 03 March 2014 voiding the November-December 2013 (period covering the thirty (30)-day Malampaya Turnover) Luzon WESM price and imposing a regulated price on the same period, and Order dated 27 March 2014 providing forty five (45)-day compliance with the adjustment of their WESM bills, several market participants filed their motion for reconsideration. These participants, referred to in the case as Movants, include:

- AP Renewables, Inc. (APRI)
- SN Aboitiz Power-Mag at, Inc. (SNAP-Mag at) and SN Aboitiz Power-Benguet, Inc. (SNAP-Benguet) (collectively, the SNAP Group)
- Therma Mobile, Inc. (TMO)
- Therma Luzon, Inc. (TLI)
- San Miguel Energy Corporation (SMEC)
- South Premiere Power Corporation (SPPC)
- Strategic Power Development Corporation (SPDC)
- SMC Powergen, Inc. (SPI)
- Petron Corporation
- Masinloc Power Partners Co., Ltd. (MPPCL)
- 1590 Energy Corporation (1590 EC)
- Panasia Energy, Inc. (PANASIA)
- Sem-Calaca Power Corporation (SCPC)
- Cabanatuan Electric Corporation (CELCOR)
- Team Philippines Energy Corporation (TPEC)

The movants raised several points against the Order including the: 1) lack of jurisdiction by the ERC to void the WESM prices for the supply months of November and December 2013 and to impose regulated prices; 2) invalid exercise by the ERC of police power; 3) premature imposition of a penalty; 4) impairment of the right to procedural due process; 5) violation to equal protection of the law (specifically on i) the ERC's decision to allow additional compensation for oil-based plants only; and, ii) the ERC's imposition of the regulated prices on all participants in the market during the November and December 2013 supply months without distinction as to who among them may be liable or not liable for anti-competitive behavior); and, 6) the violation of the constitutional proscription against impairment of contracts.

On 15 October 2014, the ERC issued its Order denying the motion for reconsideration filed by the Movants while granting the motion by CELCOR to collect from its customers the Php115,030,059.67 net settlement of PEMC within a period of twenty four (24) months. This was granted by the ERC in equal terms and without carrying cost starting the next billing cycle subject to the filing of a special application for over/under recovery covering the supply months of November and December 2013.

Accordingly, the ERC ruled on the points raised as follows:

- The ERC found no merit on the Movants' claim that it lacks the jurisdiction to devoid the November-December 2013 WESM prices and impose the regulated price. The ERC posit that the declared policy of the EPIRA including its mandate to promote consumer interest and competition and discourage/penalize abuse of market power accorded it with the legal basis to exercise police power. The regulated price was imposed by the ERC to comply with its mandate of restoring normal competitive conditions in the market and address the results of blantant violations of WESM Rules;
- The ERC ruled that the Movants are mistaken on their claim that ERC has no regulatory control over the Generation Sector as it is vested by the EPIRA to 1) issue Certificate of Compliance or COC; 2) the generation sector, although it is open and competitive, is still a business affected with public interest; 3) although power generation is not considered a public utility, but only insofar as securing local or national franchise is concerned which is an impediment in encouraging additional investments; 4) even with the commencement of RCOA, generation prices are subject to ERC regulation with the exceptions provided by the EPIRA; 5) the "open and competitive" nature of power generation business is not tantamount to absolute lack of government intervention but is a mean to foster competition in the sector; 6) upholding the Movants' interpretation of Section 6 to the effect that generation companies possess unbridled freedom to impose whatever prices they deem fit without government intervention would be in contravention to the other provisions of the EPIRA particularly with respect to consumer protection and rationalizing of electricity prices;
- The ERC posit that the Movants' argument that it is erroneous for ERC to invoke Section 6, Article XII of the Constitution as one of its basis in coming up with the 03 March 2014 Order has no legal foundation. The ERC stressed that an entity created by law can legally exercise police power by virtue of Section 6 Article XII of the Constitution;
- The ERC made no violation of the EPIRA and its IRR, the Competition Rules and the WESM Rules when it issued the 03 March 2014 Order. It clarified that the intent of the ongoing investigation by its Investigation Unit (IU) is separate and distinct on the issue being addressed by its 03 March 2014 Order;
- The ERC made no violation of procedural due process considering that the Movants were given the opportunity not only to seek reconsideration of the 03 March 2014 Order but were also heard in a hearing conducted on 28 April 2014 and to file their respective memoranda;
- On violation of equal protection of the law as referred to allowing only the oil-based plants to recover additional compensation, the ERC clarified that there was no such violation as it is understandable that the PhP6.2450/kWh regulated price would be insufficient for oil-based plants to recover their short-run marginal costs; and
- On violation of constitutional proscription against unreasonable impairment of contracts, the ERC posit that the non-impairment clause is always subservient to the police power of the government, which the ERC exercise in the event of the 03 March 2014 Order.

The ERC emphasized that its 03 March 2014 Order intends to restore the competitive conditions in the market by rationalizing prices to safeguard the interest of the consuming public in accordance with its legal mandate under the EPIRA.

2. Feed-in Tariff

The Energy Regulatory Commission (ERC) issued on 28 October 2015 an Order under ERC Case No. 2014-109 RC granting provisional authority (PA) to TransCo to implement the Feed-in Tariff Allowance (FIT-All) rate of PhP0.0406/kWh starting January 2015 billing of all On-Grid electricity consumers. Through the said PA, TransCo will perform its duties as a Fund Administrator and ensure the timely payment to the Renewable Energy (RE) Developers of their entitled FIT Rate.

The FIT-All is a uniform charge imposed on all On-Grid electricity consumers who are supplied with electricity through the distribution or transmission network. The FIT-All is essential to the implementation of the FIT System as established under *Section 7 of Republic Act No. 9513*, otherwise known as the Renewable Energy Act of 2008 (RE Law).

3. PSALM Application for True-up of Costs

On June 30, 2014, PSALM filed with the Commission the 4th application for the True-up Adjustments of Fuel and Purchased Power Costs (TAFPPC) and Foreign Exchange-Related Costs (TAFxA) under the Rules for the Automatic Recovery of Monthly Fuel and Purchased Power Costs and Foreign Exchange-Related Costs by the NPC for CY 2013 per ERC Case No. 2014-098 RC. In the said petition/application, PSALM seeks the Commission's approval on the following:

a. Recovery/refund of the total True-Up Adjustments (TAFPPC and TAFxA) for the test period January 2013 to December 2013, i.e. refund amounting to PhP0.635 billion and PhP2.042 billion for the Luzon and Mindanao grids, respectively and recovery amounting to PhP1.635 billion for the Visayas grid; and
b. Recovery/refund the above-stated True-up Adjustment over the indicated recovery/refund period, which translates to the following True-up Adjustment rates: a one (1) year refund period for Luzon and Mindanao which translates to rates of PhP1.8449/kWh and PhP0.2821/kWh, respectively, while a 5-year recovery period for Visayas which translates to a rate of PhP0.1537/kWh to cushion the impact to end-consumers of the Visayas grid, considering the calamities that have stricken the area.

D. Administration of Universal Charge (UC)

This section provides development on the implementation of UC pursuant to *Section 34 of the EPIRA*. Highlights include status of collection and disbursements, updates on PSALM's application for the recovery of stranded contract costs and stranded debts, and the implementation of UC collection from self-generating facilities. The total amount of UC being collected from all electricity end-users amounts to PhP0.3524/kWh with details indicated in Table 9.

Table 9. ERC Approved Universal Charges, as of 31 October 2014

UC Type	Amount (PhP/kWh)
Missionary Electrification	
Regular	0.0454
True-up 1a/ 1b/	0.0709
True-up Adjustment for CY2010 2/	0.0381
Cash Incentive for Renewable Energy Developers 3/	0.0017
Environmental Charge	0.0025
NPC Stranded Contract Cost	0.1938
Total:	**0.3524**

1a/ Per ERC Decision dated 30 July 2012 under ERC Case No. 2011-074 RC, the UC-ME charge equivalent to PhP0.0709/kWh shall be implemented for a period of 17 months starting August 2012 or until the amount of PhP6,326,090,190.46 covering CY 2003-2009 true-up adjustments have been collected;
1b/ Per ERC Decision dated 12 August 2013 and Clarificatory Order dated 10 October 2013 on ERC Case No. 2012-085 RC, the existing UC-ME charge of PhP0.0709/kWh shall continue until such time that the full amount of PhP4,650,702,389.76 covering CY 2011 true-up adjustment have been collected;
2/ Per ERC Decision dated 10 October 2013 on ERC Case No. 2012-046 RC, NPC-SPUG was authorized to recover from the UC-ME for a period of twelve (12) months, the amount of PhP2,565,750,319.78, and for collecting entities to bill electricity end-users the amount equivalent to PhP0.0381/kWh effective January 2014. The rate adjustment is on top of the existing UC-ME rate of PhP0.1163/kWh (PhP0.0454 plus PhP0.0709). However, in an Order dated 17 February 2014, the ERC directed the NPC, PSALM and all distribution utilities (DUs) to defer the collection of the UC-ME equivalent to PhP0.0381/kWh for the period February 2014 to July 2014, and to commence the collection of the same in August 2014.;
3/ Per ERC Decision dated 12 August 2013 and Clarificatory Order dated 10 October 2013 on ERC Case No. 2012-085 RC, the UC-ME charge of PhP0.0017/kWh shall be collected starting January 2014 billing period and thereafter.

Total UC remittances to PSALM as of 31 October 2014 amounted to PhP58.1 billionwhile interest earnings from deposits and placements of UC funds amounted to PhP0.139 billion. Of this amount, PhP57.4 billion was disbursed by PSALM to the NPC-SPUG for missionary electrification, environmental charge and stranded contract cost in accordance with the provisions of the EPIRA. Meanwhile, PhP17.4 billion was transferred from the UC-Stranded Contract Cost (UC-SCC) Special Trust Fund (STF) account to PSALM's UC-SCC Special Fund Account (SFA) in accordance with the PSALM Board-approved Guidelines and Procedures on Disbursement and Utilization of UC-SCC of NPC. This leaves the UC fund with a balance of PhP0.96 billion.

Pursuant to the ERC Decision and Clarificatory Order dated 12 August 2013 and 10 October 2013, respectively, cash incentive totalling to PhP0.033 billion was paid to by Romblon Electric Cooperative, Inc. (ROMELCO), RE Developer of Cantingas Mini Hydro Power Plant Corporation (CHPC) in Romblon, chargeable against the UC-ME for Renewable Energy Developers' Cash Incentive (REDCI), following the Rules to Govern the Availment and Disbursement of Cash Incentive to Renewable Energy (RE) Developers Operating in Missionary Areas.

Accounting for the inflows and outflows of the UC fund leaves it with a balance of about PhP0.959 billion as of 31 October 2014, as indicated in Table 10.

Table 10. Universal Charge Remittances, Interests and Disbursements as of 31 October 2014 (In Billion PhP)

Particulars	Remittances	Interests	Disbursements	Balances
Missionary Electrification	39.219	0.043	39.237	0.025
Missionary Electrification – *Renewable Energy Developer Cash Incentive (REDCI)*	0.064		0.003	0.061
Environmental Charge	1.456	0.088	0.714	0.830
Stranded Contract Cost	17.452	0.008	17.417	0.043
Total:	**58.191**	**0.139**	**57.371**	**0.959**

Source: PSALM

For the period May to October 2014, PSALM received a total of Php10.0 billion in UC remittances from collecting entities, and disbursed to NPC-SPUG the total amount of Php3.119 billion for missionary electrification. The monthly breakdown of the collections and disbursements are provided in Tables 11 and 12.

Table 11. UC Collections for May 2014 – October 2014 (in Billion PhP)

Month	UC – ME (NPC_SPUG)	UC-ME (REDCI)	UC – EWR	UC-SCC	Total / Month
May 2014	0.576	0.002	0.012	0.905	1.495
June 2014	0.671		0.014	1.075	1.760
July 2014	0.633	0.003	0.013	1.038	1.687
August 2014	0.285	0.003	0.006	0.484	0.778
September 2014	0.955	0.043	0.020	1.562	2.580
October 2014	0.776	0.008	0.014	1.042	1.660
Total	**3.896**	**0.059**	**0.079**	**6.106**	**9.96**

Source: PSALM

The details of the UC fund disbursements for the report period are as follows:

Table 12. UC Disbursements for May 2014 – October 2014 (in Billion PhP)

Month	UC – ME	UC-ME (REDCI)	UC-SCC	Total / Month
May 2014	0.571		0.889	1.460
June 2014	0.675		1.076	1.751
July 2014	0.630		1.036	1.666
August 2014	0.302	0.002	0.506	0.810
September 2014	0.938	0.001	1.534	2.472
October 2014	0.778	0.003	1.048	1.827
Total	**3.894**	**0.006**	**6.089**	**9.986**

Source: PSALM

Meanwhile, following are the updates on PSALM's petition for ERC approval of the UC-SCC and UC-Stranded Debts (SD):

CY 2013 UC-SCC under ERC Case No. 2014-111 RC

- The Petition for NPC's SCC Portion of the UC for CY 2013 was filed by PSALM before the ERC on 30 July 2014, docketed under ERC Case No. 2014-111 RC. In the said petition, PSALM seeks the ERC's approval to collect the UC-SCC amounting to PhP4.078 billion over a 1-year period, which translates to a UC charge of PhP0.0531/kWh sales to all electricity end-users.
- PSALM submitted its Compliance with the ERC's jurisdictional requirements dated 15 September 2014.
- During the Jurisdictional Hearing held on 16 September 2014 at the ERC Office, PSALM presented its Expository Presentation of the case before the ERC and intervenors and the queries and concerns raised by both were addressed and clarified by PSALM.
- During the continuation of the Expository hearing held on 02 October 2014, PSALM presented a Supplementary Expository Presentation in compliance with the directive of the ERC during the Jurisdictional and Expository Hearing in September 2014.

- On 16 October 2014, the Pre-Trial Conference was held wherein the facts of the case and the issues were discussed and agreed upon by Petitioner PSALM together with the intervenors.
- The calculation of the True-Up Adjustment of NPC's UC-SD for CY 2013 resulted in negative PhP49.591 billion, which means no SD was incurred. In compliance with the ERC-approved Guidelines on the Recovery of SCC and SD from the UC, PSALM submitted to the ERC on 31 July 2014 a letter dated 30 July 2014 informing that no SD was incurred for CY 2013, together with a report under oath thereon and the Variance Analysis Report (VAR) certified by the COA.

CY 2011-2012 UC-SCC under ERC Case No. 2013-160 RC

- The hearing on the Petition for True-Up Adjustment for NPC's SCC Portion of the UC for CYs 2011-2012 continued with the cross-examination by the intervenors of PSALM's 2nd witness for the case on 4 September 2014.

E. PSALM Liability Management

At the time of its passage in 2001, the Electric Power Industry Reform Act (EPIRA) was instituting extensive reforms in the power industry that resulted in the creation of different bodies such as PSALM Corporation. It was principally created to take ownership of the existing generation assets, independent power producer (IPP) contracts, real estate and all other disposable assets of NPC, and to assume all of the latter's liabilities and obligations, which at that time amounted to a staggering PhP830.7 billion (or equivalent to USD16.6 billion).

The PhP830.7 billion in financial obligations is composed of two elements, namely the outstanding long-term debts and the BOT lease obligations. The outstanding long-term debts represent the unpaid obligations of NPC to various creditors, which beginning in 2001, amounted to PhP319.1 billion (or USD6.1 billion). On the other hand, the BOT lease obligations represent the amount due from NPC to IPPs for facilities built in the 1990s to ensure increased generator capacity and adequate supply of electricity for a wider set of end- users. In 2001, the beginning balance of BOT lease obligations amounted to PhP511.6 billion (or USD10.4 billion).

Since then, there were several drivers of financial obligations that made a significant effect to these balances. With the realization of numerous envisioned changes that were embodied in the EPIRA, came the keen awareness of the elements that were not initially considered. An example would be the impact of the delay in effecting the absorption of the PhP200 billion worth of NPC long-term debts by the National Government (NG). Securing the necessary approvals took an unexpected amount of time; resulting to PSALM incurring additional interest charges amounting to PhP45.9 billion for CYs 2002 to 2004. Another example is PSALM's assumption of outstanding financial obligations of ECs to NEA and other government agencies in accordance with Section 60 of the EPIRA without any financial support for the same. In an effort to cover for the EC loans, PSALM had to raise money through the Nomura Bonds.

There were also other factors that significantly affected PSALM's finances, namely:

1. There were new capacities put into commission after 2001, which added to the already growing amount of NPC financial obligations. These new capacities include:

BOT Plant	IPP Proponent	Type	Capacity (MW)	Year Commissioned
Bakun	Luzon Hydro	Hydro	70	2001
Ilijan Natural Gas	Kepco Phils.	Nat Gas	1,200	2002
San Roque Multi Purpose	San Roque Power Corp.	Hydro	345	2003
Kalayaan 3 & 4	CBK	Hydro	355	2003
Mindanao Coal	STEAG	Coal	200	2006

2. In addition to item (1) above, the provision for CAPEX funding for the rehabilitation of existing plants and the construction of new transmission lines and substations, as well as the upgrade of existing lines, that amounted to PhP79.1 billion from 2001 to June 2014 also added to the outstanding financial obligations.
3. In 2008, NPC's assets and debts were transferred to PSALM. The total asset balance that was transferred to PSALM amounted to PhP831 billion as of 31 December 2008 and the total liability balance amounted to PhP904.8 billion for the same period. This, in turn, resulted to a capital from asset-debt transfer of a negative PhP73.8 billion.
4. Following the transfer, the results of operation show how owned and operated plants mostly yielded income, while IPP plants incurred even greater losses. In accordance with its mandate, PSALM then carried out the privatization of some of these IPP plants.
5. The effect of privatization was the collective reduction in the IPP plants' losses by forgoing the corresponding costs of operating said plants that were more than their generated income. By year-end 2013, the IPP plant losses amounted to PhP3.2 billion, which was already lower than the average annual IPP plant losses for more than thirteen years of PhP17.8 billion. With this downward trend in IPP plant losses as more IPP plants were privatized, it is expected that more operating costs will be avoided in the later part of PSALM's existence. This in turn would ultimately benefit end-users or the consumers since reducing the plants' losses would spell lesser stranded contract costs/stranded debts to be recovered through the universal charge.
6. Finally, the implication of the changes in foreign exchange rates have significant bearing to PSALM given how the company's financial structure isdenominated mostly in foreign currency. This makes the company much vulnerable to varying exchange rates.
7. The foregoing are only some of the drivers of NPC's financial obligations. These, however, had the most impact to the current financial standing. Through the efforts of PSALM in continuously implementing its liability management program and strategies, the beginning balance in 2001 of PhP830.7 billion has been reduced to PhP600.45 billion (or USD13.38 billion) as of end October 2014. This reduction of PhP230.25 billion as of the same period is attributable to the lower BOT lease obligations balance, but was partly offset by increased debt balance. From the beginning balances in 2001, the BOT lease obligations decreased by PhP245.20 billion, while debts increased by PhP14.95 billion as a collective effect of shortfalls and refinancing requirements.

Reduction In Financial Obligations

Table 13. Total Financial Obligations as of 31October 2014

Items	PhP Equivalent (in billions)	US$ Equivalent (in bilions)
Debts	334.05	7.44
BOT/IPP Obligations	266.40	5.94
Total	**600.45**	**13.38**

Table 14. Debt Profile Currency as of 31 October 2014

Currency	Amount in PhP equivalent (in Millions)	Amount in USD equivalent (In Millions)	Percent to Total
EUR	191.9	4.3	0.06
JPY	32,631.9	727.2	9.8
KRW	-	-	0.0
PHP	137,626.0	3,066.8	41.2
USD	163,60.0	3646.0	49.0
Total	339,564.0	7,444.3	100.0

Source: PSALM

Loan Prepayment

- In a letter dated 05 June 2014, the Department of Finance (DOF) issued its concurrence to the proposed prepayment of various Euro loans by PSALM guaranteed by the Republic. According to DOF, the transaction will reduce PSALM's outstanding financial obligations, realize savings from future payment of interest and guarantee fees and mitigate the risks arising from foreign currency fluctuations.
- On 29 August, 2014, the Bangko Sentral ng Pilipinas, through the Monetary Board Resolution No. 1318 dated 28 August 2014, approved PSALM's request to prepay the outstanding balances of its various Euro loans amounting to EUR93.384 million (approximately USD125.169 million) plus accrued interest of about EUR0.492 million (approximately US$0.66 million).
- On 30 September 2014 PSALM prepaid the Credit National loans amounting to EUR3,476,915.56 (inclusive of interests amounting to EUR45,388.82), equivalent to USD4,429,242.73.
- On 15 October 2014, PSALM prepaid its KFW (Spares) loan relent by the Bureau of the Treasury amounting to EUR3,606,929.30 equivalent to PhP203,702,053.60.
- On 30 October, 2014, PSALM prepaid its all KFW loans amounting to EUR86,652,374.55 (USD110,126,502.82).

Fund Management Activities

- Relative to PSALM's receivables from the National Government for the reimbursement of advances of PSALM/NPC for the San Roque Multi- Purpose Project (SRMPP advances), PSALM received in July 2013 a total of PhP2.872 billion from the Department of Environment and Natural Resources (DENR) and National Irrigation Administration (NIA) and another PhP254,438,522 from DENR in August 2013.

- On 28 February 2014, PSALM was able to collect PhP4,434,500,000.00 from NIA as partial payment on outstanding SRMPP advances.
- On 09 May 2014, PSALM was able to collect from DENR the amount of PhP1,523,561,478.00 as partial payment on SRMPP advances.
- On 11 July 2014, PSALM received from DENR the amount of PhP254,438,522.00 as partial payment on SRMPP advances.
- On 28 August 2014, PSALM was able to collect from NIA the amount of PhP645,500,000.00 as partial payment on SRMPP advances.

F. Lifeline Rate Subsidy Program

The provision of lifeline rate subsidy is allowed by *Section 73 of the EPIRA* which defines the lifeline rate as a subsidized rate given to low-income captive market end-users who cannot afford to pay at full cost. This program is extended for another ten (10) years with the enactment of Republic Act 10150 on June 2011.

For January to September 2014, the average total amount of subsidy provided to lifeline consumers was PhP319 million which translated to an average of PhP1.98/kWh subsidy to lifeline customers in the whole country. On the average, each of the lifeline customers had enjoyed an average monthly subsidy of PhP66.72. Large discrepancy though was noted between the subsidy availed by a PDU lifeline customer and an EC lifeline customer which averages monthly at PhP84/kWh and PhP27.54/kWh, respectively. Higher amount of subsidy was paid for by the non-lifeline customers of PDUs at PhP99.75 per month for the MERALCO franchise area, and PhP84 per month for other PDUs. For the ECs, non-lifeline customers subsidized an average of PhP8.17 per month.

Meanwhile, Table 15 shows the January to September status of lifeline rate subsidy implementation, as provided by the ERC.

Table 15. Summary of Lifeline Subsidy Implementation, January to September 2014

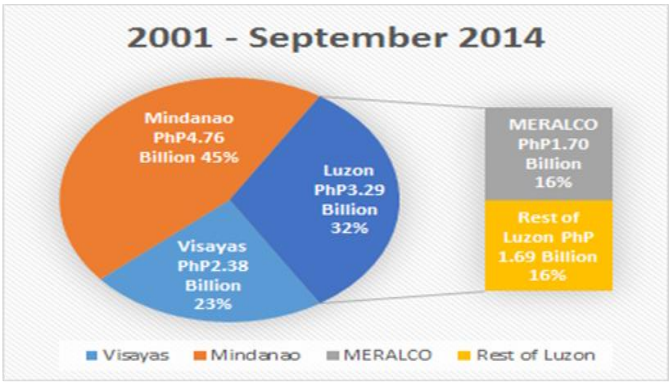
Particulars	MERALCO	Other PDUs	ECs	Total
Monthly Average Total Amount of Subsidy Provided by Non-Lifeline Customers (in Php	223,050,590.62	38,492,636	57,482,538	319,025,764.33
Average Monthly Total Consumption of Lifeline Customers (kWh)	99,746,050.56	19,677,561	42,100,749	161,524,360.37
Monthly Average Number of Lifeline Customers	2,236,110	458,249	2,087,174.11	4,781,532.44
Monthly Average Number of Non-Lifeline Customers	14,671,879	799,094	7,039,789	22,510,762.33
Average Amount of Subsidy Provided to Lifeline Customers (In PhP/kWh)	2.24	1.96	1.37	1.98
Average Amount of Subsidy Provided to Lifeline Customers (In PhP/Customer)	99.75	84.00	27.54	66.72
Average Amount of Subsidy Paid by Non-lifeline customers (in PhP/Customer)	15.20	48.17	8.17	14.17

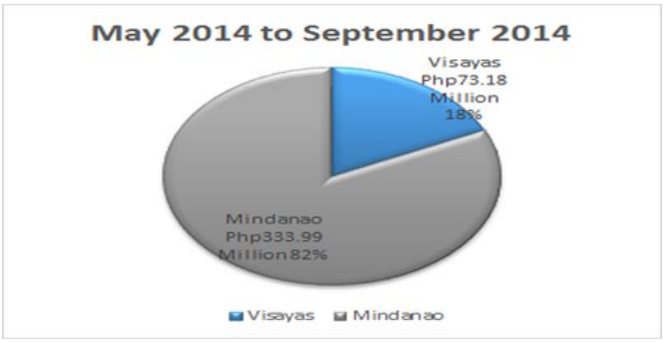
Source: ERC Investigation & Enforcement Division

G. Mandatory Rate Reduction (MRR)

Pursuant to Section 72 of the EPIRA, NPC is continuously granting to residential customers the mandatory discount of 30-centavos/kWh. For the period May 2014 to September 2014, total discounts granted by NPC have amounted to PhP407.165 million of which eighty two percent (82%) were availed by residential customers in Mindanao and eighteen percent (18%) in the Visayas. With the expiration of NPC's Transition Supply Contracts in Luzon due to continuing privatization, no MRR was incurred by NPC for Luzon from June 2013 onwards. Since the MRR was granted in 2001, NPC has incurred a total of PhP30.5 billion.

Figure 1. NPC-Incurred Amount on Grant of Mandatory Rate Reduction





H. Pantawid Kuryente Program

Pursuant to the directive of Former President Gloria Macapagal-Arroyo, the Department of Social Welfare and Development (DSWD) started the implementation of Pantawid Kuryente: Katas ng VAT Program, a one-time subsidy to the poorest sector of the society to help them pay their electric bills.

The DSWD and NEA executed a Memorandum of Agreement (MOA) for the implementation of this Program in areas covered by the electric cooperatives (ECs) nationwide. Based on the MOA, the DSWD will transfer to NEA the amount that will cover the P500 subsidy for each of the customers consuming 100 kWh per month or less than with the initial release of P500M.

Meanwhile, Table 16 shows the summary per tranche on the implementation of Pantawid Kuryente: Katas ng VAT Program as provided by NEA on the subsidy extended to consumers of ECs.

Table 16. Summary per Tranche on the Implementation of Pantawid Kuryente: Katas ng VAT Program as of 31 October 2014

Tranche	No. of Consumers Given CM	Subsidy Received (PhP)	Consumers		Application	
			# of Consumers with CM	%	Amount (PhP)	%
1st	1,010,286	505,143,000.00	1,010,286	100	500,596,499.53	99
2nd	1,012,217	506,108,308.97	1,012,217	100	500,274,513.50	99
3rd	79,058	39,529,000.00	79,058	100	39,137,691.66	99
4th	1,011,054	505,527,000.00	1,011,054	100	500,703,947.72	99
5th	967,111	483,555,500.00	967,057	100	477,320,356.39	99
6th	663,947	331,973,500.00	663,947	100	325,227,058.37	99
7th	40,564	20,282,000.00	40,564	100	20,033,914.27	99
8th	54,775	27,387,500.00	54,775	100	26,889,381.45	99
Total	**4,839,012**	**2,419,505,808.97**	**4,838,958**	100	2,390,183,362.89	**99**

Source: NEA

For its part, NEA assisted the DSWD in the proper disbursement of funds to the different ECs, subject to the provisions of the following implementing guidelines:

1. ECs are required to submit to NEA-Institutional Development Department (IDD) the following documents:

    a. Letter request from the General Manager requesting for the release of funds.
    b. Complete list of residential customers with consumption of 100 kWh and below based on May 2008 bill duly certified by the EC head of Billing Unit and the General Manager using a standard format. This should include the summary of residential consumers per municipality.
    c. Duly accomplished and notarized MOA between NEA and EC.

2. EC submission shall be evaluated/recommended by IDD, after which NEA shall release the funds in the form of cash advance subject to the usual accounting and auditing procedures on a first come, first served basis
3. Immediately, EC shall issue credit memo to qualified consumers stating that the amount P500 shall be applied starting June 2008 and future billings. The amount of advances shall be reflected in the consumers' monthly billing until the total P500 has been fully accounted for.
4. The EC shall keep and maintain the electricity subsidy in a separate account in a reputable government bank (preferably LBP or DBP). Only the amount actually applied during the month shall be transferred to the EC general fund.
5. NEA, DSWD, and/or the Commission on Audit (COA) shall require the submission of vouchers and other documents relevant to the subsidy and the project(s) as well as conduct an audit on all transactions made with respect thereto.
6. The EC shall submit Liquidation Report (Accounting of Funds, Summary of Power Bills/Credit Memo issued and Certificate of Payment to Consumers) within thirty (30) days after completion of the program.
7. It is agreed that all unutilized amount shall be returned/remitted to NEA immediately upon submitted of the liquidation report.
8. The EC shall undertake payment of notarial services and other related expenses.

9. NEA shall prepare disbursement report verified by COA.
10. NEA shall forward to DSWD documents submitted by ECs including the disbursement report as proof of liquidation.

During the report period, subsidy fund intended for "Pantawid Kuryente" amounting to Php 2.389 billion had been released to one hundred eighteen (118) ECs. Further, there are forty-five (45) ECs which have completed one hundred percent (100%) application, while forty-one (41) have reached ninety nine percent (99%) application.

IV. COMPETITION

This section provides an update on key areas of competition to include the operation of the WESM, preparations and commercial operation of Retail Competition and Open Access (RCOA), implementation of the Interim Mindanao electricity Market (IMEM) and monitoring of compliance to *Section 45 of the EPIRA.*

A. Wholesale Electricity Spot Market (WESM) Operational Highlights

As of 31 October 2014, the integrated WESM (Luzon and Visayas) has a total of two hundred twenty nine (229) registered participants comprised of fifty four (54) generating companies and one hundred seventy five (175) customers comprised of thirteen (13) Private Distribution Utilities, seventy one (71) ECs, seventy nine (79) Bulk users, five (5) Contestable Customers and seven (7) Wholesale Aggregators.

Table 17. Registration Update as of 31 October 2014 (Luzon and Visayas)

CATEGORY		EXPECTED (Luz& Vis)	REGISTERED					
			DIRECT			INDIRECT		
			LUZ	VIS	LUZ/VIS	LUZ	VIS	LUZ/VIS
Generation Companies		**54**	33	19	2	0	0	0
Customer Trading Participants	Private DUs & LGUs	13	7	3	0	3	0	0
	ECs	71	26	26	0	17	2	0
	Bulk Users	79	6	6	1	52	13	1
	▪ Bulk users (contestable)	5	0	2	0	3	0	0
	Wholesale aggregators	7	0	0	7	0	0	0
Total Customer Trading Participant		**175**	**39**	**37**	**8**	**75**	**15**	**1**
TOTAL PARTICIPANTS/ APPLICANTS		**229**	**72**	**56**	**10**	**75**	**15**	**1**

Source: PEMC

For the report period, high system demand requirement was experienced during the billing month of May, particularly in Luzon. It remained high but suddenly marked its lowest point in July with a decrease of eleven percent (11%) and persisted to be low in October. This was attributed to the cooler weather conditionsand effects of typhoon “Glenda” that initiated power interruptions in many parts of the country.

At the same time, many periods manifested tight supply conditions. It began in the billing month of June when hostile supply condition occurred in the Luzon grid that caused generation deficiency and led to the implementation of market intervention. This was also attributed to the fuel restriction at the Malampaya onshore natural gas platform. It was followed by severe supply deficiencies mostly in the Luzon grid during the billing month of July. This was brought about by both forced and planned outages, particularly the outage of Masinloc 1 and Ilijan Natural Gas Power Plant which caused the implementation of Manual Load Dropping (MLD) in the region on 12 July 2014. In addition to this, market suspension was piloted from 16 July 2014 to 25 July 2014 for the affected intervals in the Luzon Grid due to the disturbances of Typhoon “Glenda” that affected not only the supply and transmission network operations but also the demand.

Nevertheless, supply levels considerably increased in August. The HDVC link had been under maintenance from 16 August 2014 to 24 September 2014; thus, there had been no power exchange between Luzon and Visayas grids during the said period. The Visayas grid was frequently on “Yellow Alert Status” since August until October given the thin supply margins manifested in the region. Simultaneously, congestion continued to be apparent in the Luzon grid which affected mainly the generators in South Luzon given

the System Operator's declaration of the N-1 contingency requirement. This was also evident in the Visayas grid, particularly at the Negros-Panay submarine cable.

Moreover, hydro power plants contributed the largest in capacity gap and was followed by coal in Luzon while oil-based contributed the largest in Visayas. In terms of outages, coal power plants contributed the highest outage capacity both in Luzon and Visayas. Nonetheless, the energy supply was still able to meet the high system demand requirement.

In terms of spot market prices, secondary cap was implemented from May to September. Actual spot market price reached a maximum of Php32,535/MWh in May but with the secondary cap the average system-wide spot price was lowered by 7.8% from the average actual spot market price. The deviation from the average market price with and without secondary cap was larger on the succeeding months. The average spot market prices were lowered by 14.8% and 11.9% with the secondary cap during the billing month of June and July, respectively. The recorded maximum prices without the secondary cap were Php32,604/MWh and Php32,797/MWh during the said billing periods. Deviation went down in August when average actual system spot price amounted to Php5,518/MWh which was lowered only by 3.6% with the implementation of secondary price cap.

During the billing month of September, the deviation substantially increased again to 13.1%. This was attributed to the decrease in demand caused by the colder weather conditions in Visayas. This was also accompanied by the shutdown of the Leyte-Luzon HDVC interconnection that disabled Visayas to export excess generation to the Luzon grid that led to oversupply condition. This induced generators to offer most of their capacities at extreme negative prices during off-peak hours. The average spot market price in Visayas amounted to negative Php381/MWh and Php528/MWh with and without secondary cap, respectively. Prices in the said region started to stabilize during the billing month of October. Secondary price cap was not imposed because of the absence of high prices both in Luzon and Visayas. Average actual prices only amounted to Php3,539/MWh in Luzon and Php1,706/MWh in Visayas during the said period which was attributed to the frequent ample supply conditions.

B. Updates on WESM Governance Activities

The DOE provides oversight in the governance of the WESM through the different committees which undertake rules changes, operational audit, conduct of technical evaluation and studies, investigation of breach of the WESM Rules, and management of dispute resolution process. For the report period, following are highlights of the activities of the various WESM governance committees:

1. Market Surveillance Committee (MSC)

- Approved and adopted in full the Monthly Market Assessment Report and the 2013 Annual Market Assessment reportcovering the period 26 December 2012 to 25 December 2013
- Submitted to the PEM Board requests for investigations (RFIs) for possible non-compliance with the WESM rules on Submission of Offers and RTD schedule by Generator Trading Participants
- Reviewed the Monthly Reports on Compliance to the Must Offer Rule and with RTD Schedule of the Luzon and Visayas Generators
- Reviewed and discussed the report on Over-riding Constraints prepared by MAG

- Invited as one of the speakers in the 2nd quarter meeting of the Subcommittee on Power-Regional Development Council Central Visayas Region on 06 June 2014 held at Cebu City
- Submitted its report to on 18 June 2014 PEMC regarding the result of the Stakeholders' Engagement Workshop conducted on 08 April 2014 with Contestable Customers (CCs) and relevant industry associations
- Recommended that the said results of the workshop be considered in developing program for the Retail Market Participants Meeting in July 2014
- Conducted public consultation on 18 July 2014 on the Proposed Catalogue of Retail Market Monitoring Data and Indices that will be used to monitor and assess the performance of the retail market activities of the RCOA participants
- Reviewed thirty four (34) ECO Investigation Reports submitted by Enforcement and Compliance Office
- Conducted a preliminary review of the eighteen (18) Investigation Reports
- Firmed up its review and submitted a resolution adopting the findings of the ECO and approving MSC's recommendations relative to the MSC review of ECO cases on 08 August 2014
- Presented the MSC Review of ECO Investigation Reports during the 97th PEM Board Meeting wherein MSC's conclusions and recommendations were adopted and approved by the Board
- Initially reviewed the report on Extreme Negative Price Event as presented by MAG
- MSC Members were designated as resource persons for the Review Panel Meetings on 13, 14, 16, 21 October 2014
- Conducted a preliminary review of twenty two (22) ECO Investigation Reports out of thirty four (34) cases involving the alleged non-compliance to the WESM Rules on the Submission of Offers for the billing months of November and December 2014

2. Technical Committee (TC)

- Finalized and consolidated the results of its presentation of Amendments on the Market Manual Metering Standards and Procedures to the RCC
- Assisted the PAC in the preparation for the 2nd Metering Arrangements Reviewand evaluation of four (4) technical proposals that was concluded and presented to the PAC on 19 June 2014
- Finalized the public version of the TC study on Luzon Hydro Electric Power Plants (HEPP) in view of the provisions in the TC Market Manual
- Initially discussed the 4th MO Audit Report while taking into consideration the Load Forecasting Methodology, the External Auditor's findings on Load forecasting
- On-going review of the WESM Rules on the implementation of Market Intervention (MI) and Market Suspension (MS)
- On-going study on the dispatch tolerance limit requested by the MSC
- Discussed the MSC's request for the study on the impact of N-1 contingency imposed on transmission lines and substation transformers to the delivery of power
- Requested resource persons from the Trading Operations Department (TOD) to clarify matters regarding the N-1 contingency list
- On-going review of the Load Forecasting Methodology
- Discussed with the TOD the Load Forecasting Methodology in the WESM

3. Dispute Resolution Administration (DRA)

- Reviewed the matrix comparing the arbitral tribunal's schedule of fees in the WESM with that of the PDRCI and CIAC
- Finalized all the templates of the forms that will be used during negotiations, mediation, and arbitration
- Reviewed the draft Internal Business Procedures (IBP) submitted to the Secretariat
- Collected the submissions of designated Dispute Management Protocol (DMP) Focal Persons and Alternates from WESM and Retail Market Participants
- Discussed with the Secretariat on the preliminary contents of the Dispute Resolution Handbook
- Published the list of Dispute Management Protocol (DMP) Focal Persons and their respective contact details in the MyWESM section of the WESM Market Information Website
- Conducted a meeting which officers from the Institute of Integrated Electrical Engineers of the Philippines, Inc. (IIEE) were invited to discuss the possibility of accrediting new WESM Mediators/Arbitrators from their organization

4. Rules Change Committee (RCC)

The RCC completed eight (8) proposed amendments to the WESM Rules and revisions of eight (8) Market Manuals. Most of the amendments are in compliance to various audit findings which calls for the alignment of the WESM Rules and Market Manuals to policy and regulatory issuances. For the report period, two (2) RCC proposals were approved by the DOE

The provisions of the WESM Rules and the Market Manuals amended are summarized in Table 18.

Table 18. Approved WESM Rules and Market Manuals Change Proposals (2Q2014-4Q2014)

Approved Amendments To The WESM Rules	Approved Amendments to Market Manuals
Proposed Amendments on Disconnection Procedure (DOE Circular Nos. 2010-05-0006 and 2010-08-0010)	PEMC-BSMD's counter-proposal to replace 'Dispute Resolution Administrator' with 'Enforcement and Compliance Officer' in sections 1.3.4 and 1.4.1 of the WESM and Retail Market Manuals on Metering Standards and Procedures
Proposed Amendments in relation to the Approval of Alterations to the Market Network Model (DOE Circular No. DC2014-08-0016 Adopting Further Amendments to the WESM Rules on the provisions of Market Network Model)	Proposed Amendments to Manual on the Management of Net Settlement Surplus Issue 2
Proposed Amendments on the WESM Rules - Price Dampener	Proposed Amendments on the Manual-Price Dampener
Proposed Amendments on the Adoption of the Disconnection Policy: Comments from Retail Electricity Suppliers Association (RESA)	Proposed Amendments on the Management of Net Settlement Surplus (NSS)
Proposed Amendments on Generation Company Reserve Offers	Proposed Amendments to the Metering Manual
Proposed Amendments relative to the Management of Must-Run Units (MRU) DOE Circular No. DC2014-10-0021 Adopting Further Amendments to the WESM Rules Provision for Must-Run Units)	Proposed General Amendments on Dispatch Protocol and Constraint Violation Coefficients (CVC)
Proposed Amendments to the WESM Rules on	Proposed Amendments to WESM Manual on Metering

Approved Amendments To The WESM Rules	Approved Amendments to Market Manuals
Metering Standards and Procedures	Standards and Procedures
Proposed General Amendments to the Retail Rules on the Adoption of a Disconnection Policy	Proposed Amendments to the Retail Manual on Metering Standards and Procedures

Source: PEMC

Meanwhile, the RCC have continued deliberations on the following aspects of the WESM Rules:

- Simulation on the Inclusion of MERALCO Network in the Market Network Model (MNM)
- Proposed Retail Market Monitoring Data and Indices by the Market Surveillance Committee (MSC)
- Discussion of the Pay-as-Bid Concept
- Proposed Amendments to the WESM Manual on Administered Price Determination Methodology (APDM)
- Proposed Amendments to the WESM Rules on Generation Company Reserve Offers / Battery Energy Storage System

5. PEM Audit Committee (PAC)

- Conducted Pre-Bid Conference to acquaint the shortlisted bidders on the metering arrangements review project on 30 May 2014
- Negotiated with the first-ranked bidder, Intelligent Energy System Pty Ltd. (IES) Australia in partnership with Alliance of Power & Energy Xponents & Navarro Amper (Deloitte Phil), on 09 July 2014
- Prepared the scope of work and documents necessary for the 5th independent audit of the Wholesale Electricity Spot Market (WESM), which is expected to commence by January 2015
- Published the draft Terms of Reference for the MO Audit in the WESM website for comments of all market participants and other interested parties on 03- 21 October 2014
- Presented before the Energy Regulatory Commission (ERC) the draft Terms of Reference for the proposed 1st Review of the System Operator (NGCP)

C. Reserve Market Implementation

The DOE envisions the Reserve Market design to be co-optimized with energy market and will benefit the power industry and help achieve greater competition among energy and reserve providers that will result in transparent and competitive energy prices. In line with this, the DOE promulgated on 02 December 2013 DOE Circular No. DC2013-02-0027 “Declaring the Commercial Launch for the Trading of Ancillary Services in Luzon and Visayas under the Philippine Wholesale Electricity Spot Market”. The Commercial Launch Date was initially set on 26 March 2014 but was deferred in accordance with Circular No. DC2013-12-0027.

Subsequently, the Commercial Launch Date was set on 26 May 2014. PEMC, together with NGCP and Trading Participants, continued for the month of June 2014 with the trial operations program in consideration of the orders set forth by the DOE through the DOE Department Circular DC2014-03-0009 entitled “Declaring a New Commercial Launch Date for the Wholesale Electricity Spot Market (WESM) Reserve Market and Directing a

Central Scheduling and Dispatch of Energy and Contracted Reserves". To provide a more detailed evaluation, PEMC conducted a Reserve Market Forum on 20 March 2014 to deliberate the results of the TOP covering the period from 26 February 2014 until 25 April 2014.

Moreover, PEMC continued the following activities until June 2014 in preparation for the Reserve Market:

- Market Participation Registration
- Market Participant Training
- Testing of enhancements on MO and SO Systems and Procedures

In relation to the operation of the Reserve Market, following are the milestones that were accomplished within the report period:

1. *Approval of the Pricing and Cost Recovery Mechanism for Reserves in the Philippine Wholesale Electricity Spot Market*

   PEMC submitted its comments on the position papers filed by First Gen Hydro Power Corporation, Green Core Geothermal, Inc., First Gas Power Corporation and FGP Corp. (collectively, the "First Gen Group") and Therma Luzon, Inc. (TLI) on 31 March 2014. Following are the stated comments:

   - It has endeavored to comply with the directives of the ERC in its 07 July 2008 Order. Matters that have not been completed are beyond the control of PEMC. In any event, systems and procedures necessary for commercial launch are in place;
   - In any case, the ERC has authority to amend its previous rulings because these were issued in the exercise of the ERC's rule-making (not quasi-judicial) authority. Res judicata does not apply;
   - PEMC leaves the matter of cost-allocation to the judgment of the ERC;
   - ASPAs should be reconciled with the WESM Reserve Market, with the latter (in the nature of law) taking precedence; and
   - The concern of Multi-purpose Generation plants is addressed in the Dispatch Protocol 9 and DOE DC 2010-03-0003. The First Gen Group may submit rules change proposal/s if these are inadequate.

2. *Memorandum filed by MERALCO*

   A copy of the memorandum was received by PEMC on 31 March 2014 which states that:

   - There should be proper accounting of capacity being offered under ASPAs and the Reserve Market to ensure that Generation Companies will not be paid twice for the same capacity;
   - ASPAs should be harmonized with the PCRM;
   - Opportunity cost presents a moral hazard in that Generation Companies are protected from risk. If opportunity cost is allowed, there should be a cap on the "reserve marginal price, opportunity cost or zonal reserve price," and contract reserves should not be affected by opportunity cost;
   - Mitigating measures should be in place before the implementation of the Reserve Market; and
   - With respect to the REF –

1. An AS provider that was not able to provide AS should be penalized. The penalty will be used to offset higher cost brought about by the "calling of the higher price offer";
2. Weighted average should be used as this motivates suppliers to improve their performance; and
3. Minimum REF should be revised regularly

3. Proposed Amendments to the WESM Rules on Generation Company Reserve Offers

The proposed amendments on Generation Company Reserve Offers aims to change the reference to Generation Company/Scheduled Generator to Ancillary Services Provider in relevant to the WESM Rules. Particularly, it states that:

- The Proponent shall first obtain a Certificate of Compliance (COC) with the regulator; and
- Assuming that the Proposal is approved, there will be technical limitations in the Market Management System (MMS) due to the system's current capabilities

The publication of the said proposed amendments was approved by the RCC to solicit comments from the Participants.

4. Proposed Amendments to the WESM Rules on Generation Company Reserve Offers/ Battery Energy Storage System

Classification of a battery energy storage based on the existing provisions of the WESM Rules and the Philippine Grid Code is still ambiguous at the moment. Accordingly, the RCC stated that it cannot yet decide on the proposal. Assistance from the WESM Technical Committee and the Grid Management Committee was requested with regard to determining the classification of the battery energy storage.

D. Interim Mindanao Electricity Market (IMEM)

For the report period covering May 2014 up to October 2014, IMEM Market Intervention was still in effect due to the continuing significant supply deficiency. Though one of the units of STEAG Coal-Fired Power Plant went online last 07 May 2014, the additional 105 MW was not enough to sustain the required capacity for the Mindanao Grid.

While IMEM was on temporary off mode, several meetings were held including the IMEM Trading Participants' meeting which was organized by the Department of Energy last 10 April 2014. The meeting allowed all IMEM Trading Participants to discuss issues, both operational and settlement-related, directly with the DOE Secretary Petilla. Agreements on several amendments to the IMEM Implementing Rules were reached during the meeting including the discussion that IMEM Intervention would be lifted once the amendments to the IMEM Rules are ready for implementation.

In order to ensure the successful implementation of the amendments to the IMEM Rules as well as discuss all issues encountered, separate meetings were held among the DOE, PEMC, and the National Grid Corporation of the Philippines (NGCP) Mindanao System Operator. Likewise, the IMEM Governance Committee (IGC) also held its 2nd meeting last 19 May 2014 to apprise the members of the IGC on the developments in the IMEM.

As a result of these meetings, the Department of Energy issued DOE Department Circular DC2014-05-0010 entitled "Amending the Interim Mindanao Electricity Market

Rules and Providing for Transitory Arrangements". This Department Circular amended some provisions of the IMEM Rules raised during the IMEM Trading Participants' meeting last 10 April 2014. These amendments resulted in the revisions of the IMEM Price Determination Methodology, thus, the Philippine Electricity Market Corporation (PEMC) filed before the Energy Regulatory Commission (ERC) an application for the approval of the implementation of the amendments to the IMEM Rules affecting the IMEM Price Determination Methodology last 07 May 2014.

The ERC on 26 May 2014 set the first public hearing on 03 July 2014. During this hearing, PEMC provided its expository presentation during this hearing. A second hearing was then set on 17 July 2014 scheduled to be held in Davao City. Due to inclement weather in Luzon brought by typhoon "Glenda" the second and third hearings were postponed to 13 and 15 August 2014 slated in Davao City and Cagayan de Oro City, respectively. The scheduled hearings proceeded with PEMC providing its expository presentation in both hearings. The fourth (4th) hearing, which would include the pre-trial conference and evidentiary hearing, was scheduled on 07 October 2014 in Davao City.

With regard to the settlement of IMEM transactions, a one-stop reconciliation meeting was organized by the DOE on 09 May 2014 in Cagayan de Oro City. This meeting was then followed by another meeting among the DOE, PEMC, and the IMEM Generators to discuss the ways forward on 14 May 2014. Another separate meeting among the generators was held last 11 June 2014 in Pasig City.

As a result of these meetings, verification of the metered quantities of all IMEM Trading Participants were performed. The meeting also allowed the IMEM Customers to discuss further their settlement issues with the DOE, PEMC, NGCP, and the IMEM Generators. From thereon, reconciliation of contract declarations were continuously undertaken. By PEMC, National Grid Corporation of the Philippines (NGCP), the Power Sector Assets and Liabilities Management Corporation (PSALM), together with the Mindanao Independent Power Producers to ensure the accuracy of billing data.

For the month of September 2014, PSALM and the Independent Power Producers (IPPs) were able to submit their contract declarations to PEMC during the end of this period. Both datasets for the contract declarations had passed validation of PEMC and the preparation of settlement statements for the period started thereafter. The release of the final settlement statements for January to March 2014 and the adjustment bill for December 2013 was scheduled for release during the last week of September, while the due dates of payments were set last 30 October 2014 and 03 November 2014 for the December 2013 to February 2014 and March 2014 Billing Periods, respectively.

Per the request of some customers, the DOE organized meetings with the generators for the possible installment payment of the billed amounts. The said meetings resulted with the generators agreeing for the extension of the deadline of payments to 30 December 2014. Furthermore, trading participants with payables to the IMEM had an option to pay their billed amounts up to three (3) tranches but with the last tranche still to be paid on or before 30 December 2014. Part of the agreement covered that the interest will not be charged to the IMEM Trading Participant if the payments were made on or before 30 December 2014.

E. Retail Competition and Open Access (RCOA)

The Retail Competition and Open Access (RCOA) commenced on 26 June 2013 with 239 registered Contestable Customers (CCs). The implementation of RCOA is in pursuant to *Section 31 of R.A 9136* otherwise known as EPIRA where CCs will be allowed with supply of electricity from Retail Electricity Suppliers (RES) by allowing the use of transmission and distribution systems and associated facilities, subject to the payment of transmission and distribution wheeling charges duly approved by the Energy Regulatory Commission (ERC).

After sixteen (16) months of commercial operation, and despite being voluntary in nature of participation, RCOA has a total registered membership of four hundred two (402) as of October 2014. This is composed of three hundred forty four (344) CCs, twenty three (23) Retail Metering Service Providers (RMSP), sixteen (16) RES, eight (8) Local Retail Electricity Suppliers (LRES) and four (4) Suppliers of Last Resort (SOLRs).

1. RCOA Participation and Registration

As of October 2014, the Central Registration Body (CRB) registered a total of four hundred two (402) participants out of one thousand seventy seven (1,077) prospective RCOA participants while forty six (46) applicants for registration are in process. Out of the estimated nine hundred seventy (970) ERC certified Contestable Customers (CCs), three hundred forty four (344) or thirt five (35) percent were successfully registered with the CRB while twenty eight (28) applications are in process. There were five (5) Directly Connected Customers (DCCs) that registered with the CRB of which three (3) are Indirect WESM Members and two (2) are Direct WESM Members.

Sixteen (16) RES have registered with the CRB while two (2) RES applications namely Ferro Energy and Manila Electric Company are still being evaluated pending completion of required documents. GN Power Mariveles and SEM Calaca RES Corporation did not renew their RES licenses which expired on 24 May 2013 and 15 November 2013, respectively.

Twenty three (23) DUs have been allowed by the ERC to engage in retail supply as Local RES of which nine (9) have been registered with the CRB to include MPower of MERALCO and VECO Local RES. Dagupan Electric Corporation (DECORP) was registered by the CRB as Local RES and SOLR last 18 June 2014.

Twenty three (23) DUs were registered as RMSP while five (5) applicants are still being evaluated by the CRB. As regard to SOLRs, there are four (4) registered while five (5) applications are being evaluated. Table 19 summarizes the registration status as of 31 October 2014.

Table 19. Summary of RCOA Registration

Participants	Prospective based on ERC data	Registered as of June 2013	Registered as of October 2014	Increase/Decrease
Retail Electricity Supplier	18	15	16	6.3%
Local Retail Electricity Supplier	23	3	10	233.0%
Retail Metering Service Provider	39	18	23	27.8%
Contestable Customer	970	239	344	47.9%
Supplier of Last Resort	27	0	4	100.0%
Total	**1,077**	**275**	**402**	**46.2%**

Source: PEMC

2. Retail Market Transaction Highlights

- For the period May to October 2014, the contestable customers energy consumption increased by 25.4 percent compared to previous report period of 3,054 GWh to 4,095 GWh. This can be attributed to the increase of participation by the Contestable Customers which has increased by thirty five percent (35%) in October 2014 from the initial implementation of RCOA in June 2013.
- MPower or the MERALCO Local RES maintained the biggest number of CCs at two hundred four (204) which comprise fifty nine percent (59%) of all CCs that migrated to RCOA. Aboitiz Energy Solutions, Inc. (AESI)followed with a total of forty two (42) CCs.
- In terms of MWh sales, MPower shares the bulk of 56.5% equivalent to 2,314 GWh for the period May to October 2014. AESI on the other hand, shared 12.2% while Direct Power has 8.7% of the total sales. VECO Local RES and SFELAPCO Local RES, the supply segment of the Visayan Electric Company (VECO) and San Fernando Light and Power Company (SFELAPCO) Local RES have registered their first contestable customer, San Miguel Corporation and Pepsi Cola Bottling Corporation, respectively.

Table 20.Number of Contestable Customer and Market Volume per Supplier

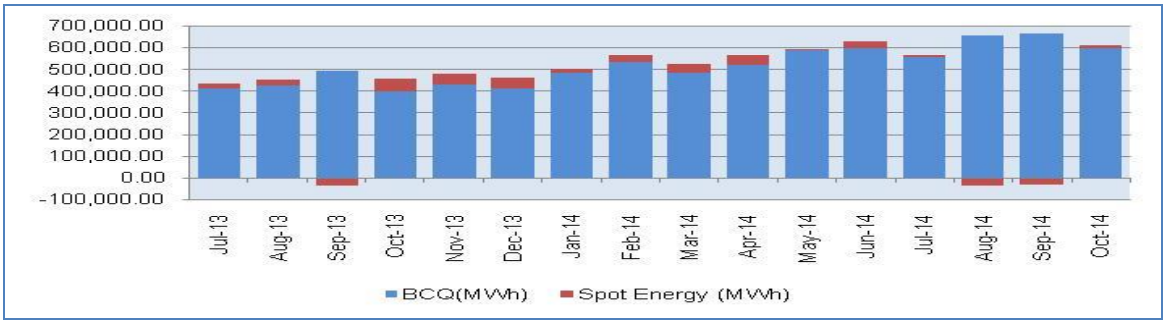
RES	No. of CCs *(Oct. 2014)*	% Share	MWh Sales *(May to October 2014)*	% Share
Meralco Local RES (MPower)	204	59.3%	2,314,187.77	56.5%
Aboitiz Energy Solutions, Inc. (AESI)	42	12.2%	459,410.07	11.2%
Advent Energy Inc., (AEI)	19	5.5%	404,213.71	9.9%
Direct Power Services, Inc. (DPSI)	30	8.7%	264,044.98	6.4%
Ecozone Power Management Inc., (EPMI)	22	6.4%	190,407.93	4.6%
Global Energy Supply Corp. (GESC)	2	0.6%	111,974.55	2.7%
San Miguel Energy Corp. (SMELC)	7	2.0%	89,341.79	2.2%
Masinloc Power Partners Co. Ltd. (MPPCL)	1	0.3%	90,034.87	2.2%
TeaM Philippines Energy Corp (TPEC)	10	2.9%	84,249.34	2.1%
Trans-Asia Oil and Energy Development Corp (TAOEDC)	3	0.9%	60,983.42	1.5%
VECO Local RES (VECO)	1	0.3%	14,988.51	0.4%
SNAboitiz Power – RES (SNAP)	2	0.6%	8,610.33	0.2%
SFELAPCO Local RES (SFELAPCO)	1	0.3%	2,640.07	0.1%
TOTAL	**344**	**100.0%**	**4,095,087.32**	**100.0%**

- In August and September billing periods, the market recorded negative spot transactions in the retail market as CCs or their RES have excess contracted capacities and were able to sell them to the WESM. This however did not result to negative prices in retail transactions.
- Metered Quantity during the report period was 3,647 GWh of at an average of 607 GWh per month. Total bilateral contract quantity (BCQ) was 3,658 GWh

indicating excess contracted energy by CCs or their suppliers have been sold to the market. This was recorded during August and September billing months.

- During the report period, the average spot purchases for the retail market was 12,887 MWh or equivalent to 2.1% of the metered quantity while average of 30,833 MWh were sold to the market.

Figure 4. Summary of Market Transactions, Energy Volumes in MWh



- Total trading amount was PhP804,487,315.05 for the report period or at an average of PhP134,081,219.17 per month. Effective Settlement Price (ESP) was at an average of PhP6.579.11 per MWh where PhP22,723.21 per MWh was recorded in May 2014 while the lowest ESP was PhP453.49 in August 2014.
- Based on data provided by the CRB, the following RES still have no transactions as evidenced by data submitted by PEMC. These RES are as follows:

    - GNPower Ltd. Co.
    - KRATOS RES, INC.
    - Premier Energy Resources Corporation
    - Prism Energy, Inc.

F. Generation Company Market Share Monitoring

The basis for the computation of the market share of generators remain to be ERC Resolution No. 3 Series of 2014. For this report, the computation of market share is based only on the recent development such as the privatization of the AHEPP and Naga LBGT. The ERC is expected to come-out with the new issuance on the market share in March 2015.

After the turn-over of the 218-megawatt (MW) Angat Hydroelectric Power Plant (AHEPP) to the Korea Water Resources Corporation (K-Water) on 31 October 2014, the National Power Corporation (NPC) has no share of generating capacities in the Luzon grid. This is after the Supreme Court of the Philippines upheld the legality and validity of the conduct of bidding process for the sale of the sad asset by PSALM and the subsequent issuance of Notice of Award to K-Water.

Meanwhile, the award of the Naga Land-Based Gas Turbine (LBGT) to Salcon Power Corporation (SPC) increased SPCs share to 19.4% of the total installed capacity in the Visayas grid compared to eighteen percent (18%) during the previous report.

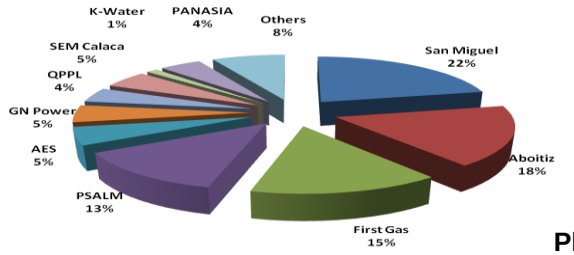
In Mindanao, though there are ongoing construction of additional capacity and may come online late this year such as the 100 MW Coal Power Plant of the Sarangani Energy

Corporation (SEC), they must have to commercially operate and be considered by the ERC in its list of commercially operating power plants before be counted in the market share determination.

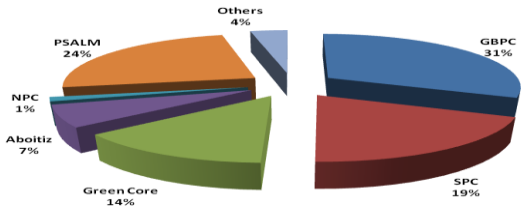
Not a single power generation company has breached the limitation provided in the EPIRA except the Global Business Power Corporation (GBPC) which is a result of the decline of the total generating capacity in the Visayas brought about by the effect of Typhoon Yolanda which damaged some power plants in the area. San Miguel Energy Corporation SMEC) is still the largest power generation company in Luzon and total Philippines with a total generation capacity of 2,615 MW or equivalent to twenty percent (22%) of the total generating capacity in Luzon or sixteen percent (16%) of the total generation capacity of the country. GBPC is the largest generation company in the Visayas with a total generation capacity of 567 MW or thirty one percent (31%) for the grid while the government through NPC, dominate Mindanao with 920 MW or forty six percent (46%) of the grid's generation capacity.

Figure 6. Market Share Monitoring, October 2014

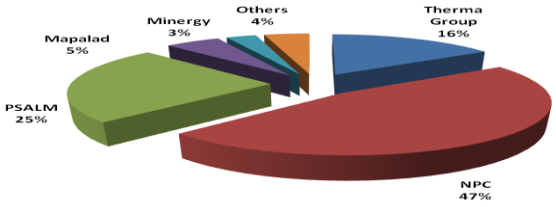
Luzon



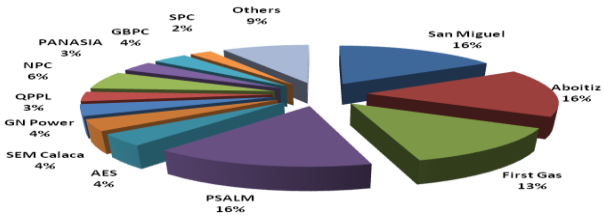
Visayas



Mindanao



Philippines



V. POWER SUPPLY SECURITY AND RELIABILITY

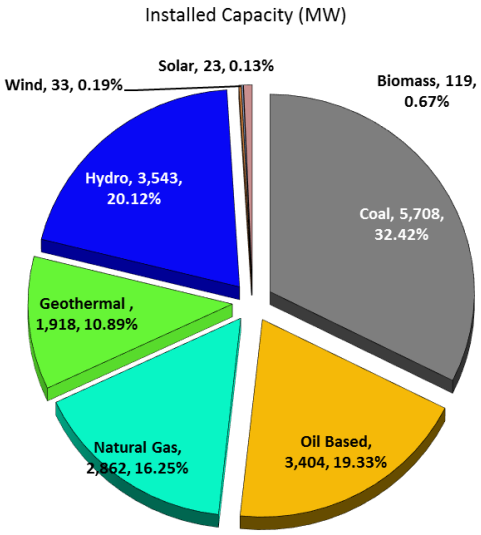
This section highlights the updates on the power situation and project developments in Luzon, Visayas and Mindanao for the period May 2014 to October 2014.

A. Installed and Dependable Capacity

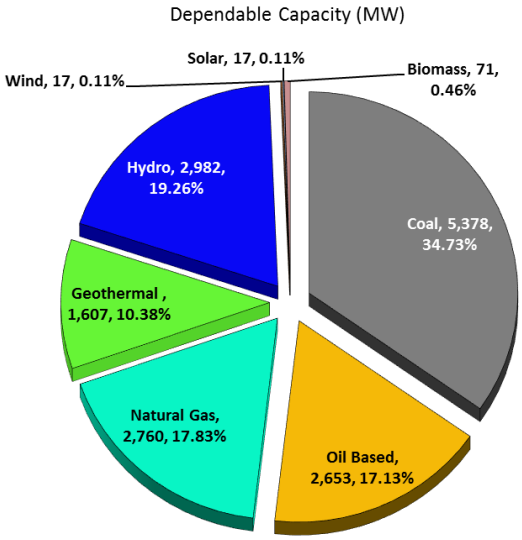
Total installed and dependable capacity in the country as of October 2014 increased to 17,609 MW and 15,485 MW, respectively. It is about 284 MW or 1.64% increase in installed capacity and 164 MW or 1.07% increase in dependable capacity for the three (3) grids.

Installed capacity in Luzon totaled to 12,790 MW or 73.48% of the total installed capacity mix followed by Visayas with 2,520 MW or 14.31%. Mindanao has 2,151 MW or 12.21%. Correspondingly, dependable capacity in Luzon stood at 11,514 MW; Visayas at 2,160 MW and Mindanao at 1,812 MW.

Figure 8. List of Existing Power Plants, Released October 2014



Total Installed Capacity = 17,609 MW



Total Dependable Capacity = 15,485 MW

In Luzon, the inclusion of the 140 MW Petron Refinery Solid Fuel-Fired Boiler (RSFFB) power plant in Limay, Bataan and the 1.8 MW Communal-Uddiawan mini-hydro plant in Nueva Ecija as well as the adjustments made in the dependable capacity of plants such as GN Power in Mariveles, Bataan; TMO Barges in Navotas; Limay Combined Cycle Power plant; Bacman Geothermal Power Plant in Sorsogon; Binga Hydroelectric power plant in Benguet; Botocan hydroelectric power plant in Laguna; Montalban Methane Facility in Rizal and Bacavalley LFG in Laguna contributed to the increase incapacity from March 2014 to October 2014 as indicated in Table 21.

Table 21. Comparison of Installed and Dependable Capacity, Luzon

FUEL TYPE	LUZON					
	Installed Capacity (MW)			Dependable Capacity (MW)		
	Oct-14	Mar-14	Difference	Oct-14	Mar-14	Difference
Coal	4,671	4,531	140	4,391	4,219	172
Oil Based	2,020	2,020	0	1,494	1,736	(242)
Natural Gas	2,861	2,861	0	2,759	2,759	0
Geothermal	844	844	0	692	607	85
Hydro	2,471	2,462	9	2,131	2,147	(15)
Wind	33	33	0	17	17	0
Biomass	38	38	0	29	34	(5)
TOTAL	**12,939**	**12,790**		**11,514**	**11,519**	

Source: List of Existing Power plants, released October 2014

Visayas grid, as indicated in Table 22, shows improvement as they had increase in the capacity due to the commercial operation of the 22 MW SACASOL solar farm in San Carlos City and the 50 MW Nasulo Geothermal Power plant, both located in Negros Occidental.

Table 22. Comparison of Installed and Dependable Capacity, Visayas

FUEL TYPE	VISAYAS					
	Installed Capacity (MW)			Dependable Capacity (MW)		
	Oct-14	Mar-14	Difference	Oct-14	Mar-14	Difference
Coal	806	806	0	777	777	0
Oil Based	670	670	0	505	505	0
Geothermal	965	915	50	817	777	40
Hydro	11	11	0	11	11	0
Biomass	44	44	0	32	32	0
Natural Gas	1	1	0	1	1	0
Solar	22	0	22	17	0	17
TOTAL	**2,520**	**2,448**		**2,160**	**2,103**	

Source: List of Existing Power plants, released October 2014

In Mindanao, oil-based and hydroelectric power plants exhibited an increase due to the continuous search for short-term additional capacity in the grid as they experienced tight power supply as shown in Table 23. The grid added 50 MW from Mapalad Power Corporation (MPC)-Digos, SoEnergy and King Energy Generation Inc. (KEGI)-Panaon for Oil-based plants while additional 14 MW was added from Tudaya 1 and 2 Hydroelectric power plants in Davao del Sur.

Table 23. Comparison of Installed and Dependable Capacity, Mindanao

FUEL TYPE	MINDANAO					
	Installed Capacity (MW)			Dependable Capacity (MW)		
	Oct-14	Mar-14	Difference	Oct-14	Mar-14	Difference
Coal	232	232	0	210	210	0
Oil Based	713	663	50	654	605	49
Geothermal	108	108	0	98	98	0
Hydro	1,061	1,047	14	840	826	14
Solar	1	1	0	0.3	0.3	0
Biomass	36	36	0	10	10	0
TOTAL	**2,151**	**2,087**		**1,812**	**1,749**	

Source: List of Existing Power plants, released October 2014

B. Generation

Generation of the entire country increased to 75,266 GWh in 2013. This was 3.21% higher than the 2012 generation at 72,922 GWh. This covers generation coming from grid-connected, embedded power plants as well as generating facilities from off-grid areas from Luzon, Visayas and Mindanao.

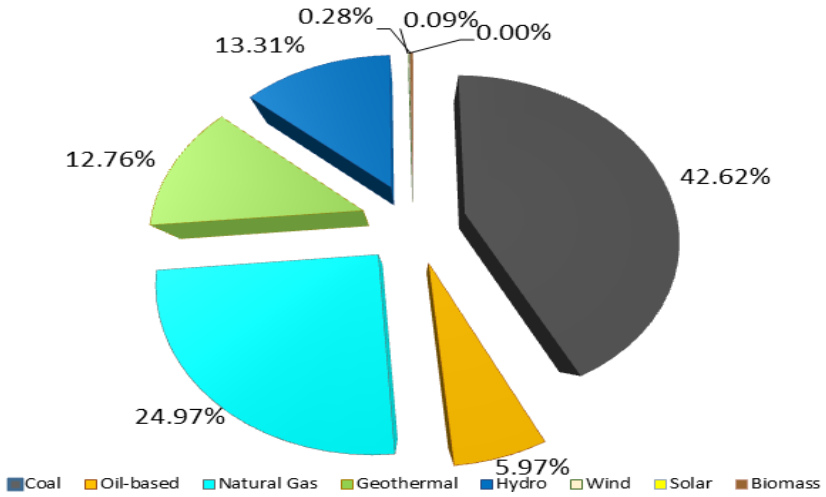
As indicated in Table 24, majority of the generation comes from Coal-fired power plants with 32,081 GWh or 42.6% of the total generation, followed by Natural Gas plants with 18,791 GWh or 25.0%. Hydro power plants generated 10,019 GWh of power or 13.3% while Geothermal power plants produced 9,605 GWh or 12.8%. Oil-based power plants have a share of 6.0% in the total generation comprising 247 GWh, while new renewable energy-based plants such as Wind, Solar and Biomass have a meager share of 0.4% or 279 GWh of the total generation.

Table 24. Generation per Plant Type for 2013, Philippines

PHILIPPINES	2013 Gross Generation (GWh)	% Share
Coal	32,081	42.62%
Oil-based	4,491	5.97%
Combined Cycle	247	0.33%
Diesel	3,805	5.06%
Gas Turbine	0	0.00%
Oil	438	0.58%
Natural Gas	18,791	24.97%
Geothermal	9,605	12.76%
Hydro	10,019	13.31%
Wind	66	0.09%
Solar	1	0.00%
Biomass	212	0.28%
Total Generation	**75,266**	**100.00%**

Source: Power Statistics 2013

Figure 9. Pie graph of the Generation Mix for 2013 per Plant Type



For Luzon generation (Table 25), the grid generated 54,820 GWh or 72.8% of the total generation of the country for 2013. Coal plants still dominate the generation mix with a share of 17.7% or 25,756 GWh. It is higher by 17.7% from its 2012 generation at 21,878 GWh. This was attributed to the operation of new coal plants such as 652 MW GN Power in Mariveles, Bataan and the 140 MW Petron RSSFB. On the other hand, generation of Natural Gas plants, dropped by 4.4% from 19,642 GWh in 2012 to 18,783 GWh in 2013. Decrease in generation can be due to the 30-day Malampaya Turnaround from 11 November to 10 December 2013 that restricted the operations of the 1,271 MW Ilijan plants of KEILCO as well as the 1,060 MW Sta. Rita and 530 MW San Lorenzo power plants, operated by First Gen.

Table 25. Comparison of Generation per Plant Type for 2013 and 2012, Luzon

	Gross Generation (GWh)		
LUZON	**2012**	**2013**	**Difference**
Coal	21,878	25,756	3,878
Oil-based	1,800	1,601	(200)
Natural Gas	19,642	18,783	(858)
Geothermal	3,588	3,399	(190)
Hydro	5,292	5,156	(137)
Wind	75	66	(10)
Biomass	37	60	23
Total Generation	**52,276**	**54,820**	**2,544**

Source: Power Statistics 2013

Year 2013 was a tough year for the Visayas grid in terms of generation as it only generated 11,100 GWh. It experienced 3.3% decrease from its 2012 generation of 11,483 GWh. The drop of generation can be attributed to the calamity that hit Visayas on November 2013 where the areas in Samar, Leyte and Panay experienced the wrath of the Super Typhoon Yolanda (International name: Haiyan). Unified Leyte and Tongonan geothermal power plants went on outage due to the damage they incurred during the passage of the super typhoon. With this calamity, geothermal plants suffered a drop in generation to 5,463 GWh, lower by 467 GWh from the 2012 generation of 5,930 GWh.

Table 26. Comparison of Generation per Plant Type for 2013 and 2012, Visayas

	Gross Generation (GWh)		
VISAYAS	**2012**	**2013**	**Difference**
Coal	4,701	4,690	(11)
Oil-based	734	796	62
Natural Gas	0	8	8
Geothermal	5,930	5,463	(467)
Hydro	46	37	(9)
Biomass	71	106	35
Total Generation	**11,483**	**11,100**	**(383)**

Source: Power Statistics 2013

For Mindanao, its generation grew to 9,347 GWh or 220 GWh higher than its 2012 generation of 9,127 GWh. Majority of this is credited to the operation of Oil-based power plants such as the recommissioning of Iligan Diesel Power Plant (IDPP) under its new owner, the Mapalad Power Corporation (MPC) and small diesel plants such as KEGI-Misamis Oriental, MPC-Koronadal and EEI power in Tagum, Davao del Norte. Coal-fired plants and hydroelectric plants decreased their generation due to the frequent forced and planned outages of these facilities in 2013.

Table 27. Comparison of Generation per Plant Type for 2013 and 2012, Mindanao

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	Gross Generation (GWh)		
MINDANAO	2012	2013	Difference
Coal	1,686	1,635	(51)
Oil-based	1,720	2,094	374
Geothermal	731	743	12
Hydro	4,913	4,827	(87)
Solar	1	1	0
Biomass	75	47	(29)
Total Generation	**9,127**	**9,347**	**220**

Source: Power Statistics 2013

C. System Peak Demand

The system peak demand for Luzon grid for 2014 was recorded at 8,717 MW on 21 May 2014. This was 5.0% or 412 MW higher than the recorded demand of 8,305 MW which happened in the same month last year. This was attributed to the high electricity consumption mainly from the air conditioning and other cooling equipment of the residential and commercial sector during the summer season.

The highest recorded coincident peak demand in Visayas for 2014 as of November 2014 occurred on 27 May 2013 at 1,636 MW. This was 4.1% higher than the previous year's demand with 1,572 MW which occurred on May 2014. Demand in Visayas in 2014 had normalized after they were hit by Super Typhoon Yolanda last year wherein they experienced low demand from normal between November 2013 until March 2014. Table 28 shows that out of this highest demand for Visayas, 52.7% of this came from Cebu sub-grid; Negros and Panay almost have almost equal demand share with 16.3% and 16.2%, respectively; while, Leyte-Samar region have 11.1% and Bohol sub-grid have the least share of demand with 3.8%. Visayas demand is still expected to hit its highest demand this December 2014 as it was projected to have 1,776 MW based on the seven percent (7%) GDP growth.

Table 28. Breakdown of the 2014 highest demand of Visayas, 1636 MW as of 27 May 2014

Visayas Sub-grid	2014 Peak Demand Breakdown (MW)	% Share
Cebu	861.83	52.69
Negros	266.41	16.29
Panay	264.32	16.16
Leyte-Samar	181.44	11.09
Bohol	61.69	3.77
Total Visayas Demand	**1,635.69**	**100.00**

Mindanao grid still managed to increase its demand by 2.0% compared to the highest demand at 1,457 MW in December 2013 despite imminent rotating brownouts in the area due to tight power supply condition. The recorded highest demand including embedded loads as of November 2014 was at 1,457 MW which occurred on 13 November 2014. Like Visayas, Mindanao is still expected to reach its highest peak at 1,473 MW this December 2014 (where the peak demand usually occurs) based on the 7% GDP growth demand.

Table 29. Comparison of Peak Demand from Luzon, Visayas and Mindanao

GRID	Peak Demand (MW)				Deviation	
	2014	Date	2013	Date	MW	%
LUZON	8,717	May-14	8,305	May-13	412	4.96
VISAYAS*	1,636	May-14	1,572	May-13	64	4.07
MINDANAO*	1,457	Nov-14	1,415	Dec-13	42	2.05

Source: NGCP Daily Operation Report (DOR)
** Peak Demand in Visayas and Mindanao as of November 2014; Highest Demand expected to be reached by December 2014*
Note: Embedded Generation included

D. Electricity Sales and Consumption

Table 30. 2013 and 2012 Comparative Electricity Sales and Consumption of Distribution Utilities, Philippines

Sector	PHILIPPINES					
	2013		2012		Difference	
	GWh	% Share	GWh	% Share	GWh	% Growth Rate
Residential	20,614	27.39%	19,695	27.01%	918.81	4.67%
Commercial	18,304	24.32%	17,777	24.38%	526.52	2.96%
Industrial	20,677	27.47%	20,071	27.52%	605.83	3.02%
Others	1,971	2.62%	1,668	2.29%	303.82	18.22%
Total Sales	**61,566**	**81.80%**	**59,211**	**81.20%**	**2,354.99**	**3.98%**
Own-Use	5,959	7.92%	5,351	7.34%	608.25	11.37
System Loss	7,741	10.28%	8,360	11.46%	-619.42	-7.41%
Total Sales	**75,266**		**72,922**		**2,343.83**	**3.21%**

In spite of the destruction brought about by the series of natural calamities that strike the country in the last quarter of 2013, the country's Electricity Sales and Consumption continued to increase, albeit at a slower pace at 3.2% in 2013 driven by the Services[2] sector, particularly, Trade and Real Estate, Renting & Business Activities, and by the accelerated performance of Manufacturing. Strengthened by the country's full-year Gross Domestic Product (GDP) estimate growth of 7.2% in 2013, the electricity sales grew by almost 4.0% in the year of water snake, albeit lower than its year-ago rates of 5.6% in 2012.

Driven by strong growth in household and government spending, robust external trade, domestic output growth, notwithstanding the losses from natural disasters in the last quarter

[2]*National Statistical Coordination Board, National Accounts, Q4 and Annual 2013, http://www.nscb.gov.ph/sna/2013/4th2013/2013qpr4.asp*

of the year, the total electricity sales all over the country still posted a notable figure of 61,566 GWh in 2013 from 59,211 GWh in 2012. Out of these total sales, 41,942 GWh or 68.1% was contributed by Private Investor Owned Utilities (PIOU's), while 14,875 GWh or 24.2% was from the Electric Cooperatives. Non-utilities and Other Services were 4,418 GWh or 7.2%, 331 GWh or 0.5%, respectively. Total sales accounted to 61,566 GWh, corresponding to 81.8% share to total consumption. "Own-use" of power plants and distribution utilities smoothed at 5,959 GWh or 7.9%. Losses from generator, transmission and distribution accounted for 7,741 GWh or 10.3% as shown in Figures 5 and 6.

Figure 10. 2013 Electricity Sales and Consumption, Philippines

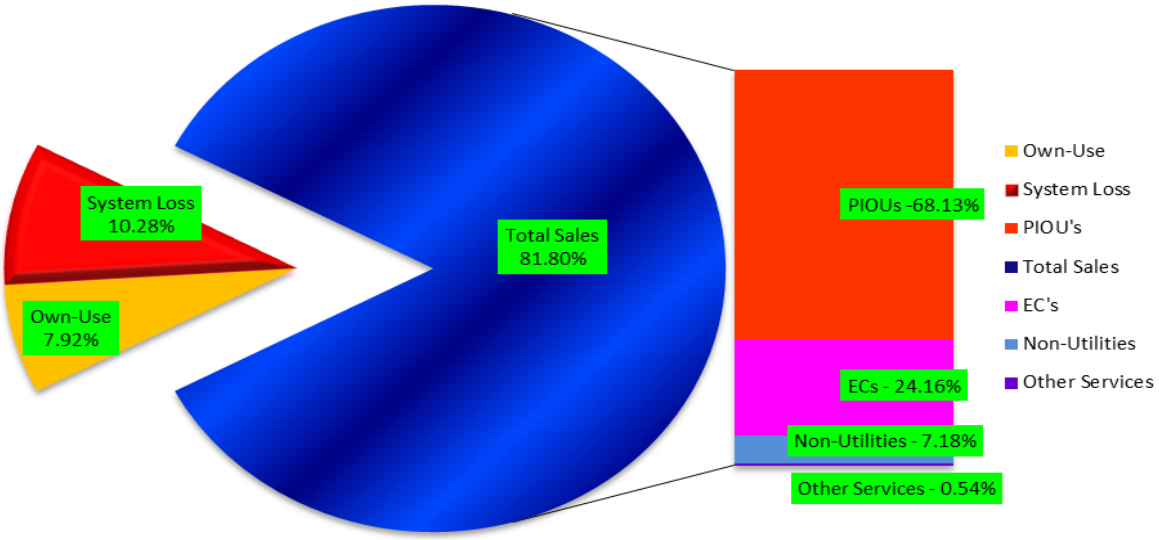
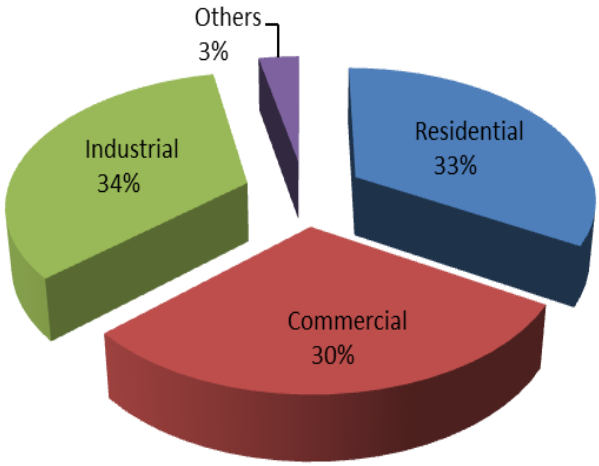


Figure 11. 2013 Electricity Sales by Sector, Philippines



On a per grid basis, despite of the Zamboanga crisis on September 2013, Mindanao grid ranked the highest in terms of growth in electricity sales, representing an increase of 5.3% over the previous year from the recorded growth of 4.6% in 2012. The expansion was supported by the continued collaborative programs/recommended solutions of the government and private sectors to address the power supply situation in Mindanao until new capacities come on stream by 2015. One of this is the Interim Mindanao Electricity Market (IMEM), a program for all generation capacities, customers with embedded generation, and Distribution Utilities (DUs) that provides a venue for transparent and efficient utilization of all available capacities in the Mindanao Grid to meet the supply deficiency. Trial operations were held from 26 August 2013 until 25 September 2013. The initial operations commenced on 26 September 2013 and full operations on 03 December 2013.

Table 31. 2013 Electricity Sales (in GWh) by Distribution Utilities, by Grid

TYPE OF DISTRIBUTION UTILITIES	LUZON	VISAYAS	MINDANAO	PHILIPPINES
Electric Cooperatives (ECs)*				
Residential	3,992	1,751	1,889	7,632
Commercial	1,624	912	848	3,384
Industrial	885	504	1,199	2,587
Others	514	262	495	1,271
Total Sales of ECs	**7,015**	**3,429**	**4,431**	**14,875**
Private Investors Owned Utilities (PIOUs)				
Residential	11,064	984	934	12,981
Commercial	13,886	534	500	14,919
Industrial	10,568	1,714	1,412	13,694
Others	224	72	51	347
Total Sales of PIOUs	**35,741**	**3,303**	**2,897**	**41,942**

Note: * Includes Off-Grid Sales
Source: Department of Energy

Another measure that was introduced to the Mindanaoans is the Modular Genset Program which provided immediate relief or alternative measure to supply much needed power for Electric Cooperatives in Mindanao. Under the program, the government provides funds for a loan facility available to Mindanao electric cooperatives (ECs) for the acquisition of modular gensets with low interest rates and an option to return or acquire the modular gensets back to the national government when the ECs supply requirement have been met by the new capacities.

Meanwhile, Luzon grid registered a growth of 3.7% in 2013, slower than the 5.4% increase in 2012. The domestic natural calamities as well as the increased in electricity rates due to the scheduled maintenance shutdown of the Malampaya natural gas facility in 11 November to 10 December 2013 are the major factors that contributed to the slower growth in Luzon's electricity sales in 2013.

On the other hand, the growth rate in the Visayas electricity sales resulted to 2.9% in 2013, lower than the year-ago rate of 5.8%. Although still in expansion mode, the experienced slowdown of the Visayas grid was due to the disruption of business activities mostly on the commercial sector in the aftermath of super typhoon Yolanda in November 2013.

Table 32. 2013 Electricity Sales and Consumption (in GWh) by Sector, by Grid

Electricity Sales and Consumption (GWh)

Luzon	2013	2012	% Growth Rate
Residential	*15,056*	*14,262*	*5.6%*
Commercial	*15,510*	*14,905*	*4.1%*
Industrial	*14,379*	*14,086*	*2.1%*
Others	*859*	*810*	*6.0%*
Total Sales	**45,803**	**44,064**	**3.9%**
Own-Use	4,550	3,952	15.1%
System Loss	5,383	5,707	(5.7)%
Total Consumption	**55,736**	**53,723**	**3.7%**

Visayas	2013	2012	% Growth Rate
Residential	*2,735*	*2,668*	*2.5%*
Commercial	*1,446*	*1,426*	*1.4%*
Industrial	*3,137*	*3,032*	*3.5%*
Others	*550*	*521*	*5.5%*
Total Sales	**7,868**	**7,647**	**2.9%**
Own-Use	1,055	1,092	(3.4)%
System Loss	1,260	1,333	(5.4)%
Total Consumption	**10,183**	**10,072**	**1.1%**

Mindanao	2013	2012	% Growth Rate
Residential	*2,823*	*2,765*	*2.1%*
Commercial	*1,348*	*1,446*	*(6.8)%*
Industrial	*3,161*	*2,954*	*7.0%*
Others	*563*	*336*	*67.5%*
Total Sales	**7,895**	**7,500**	**5.3%**
Own-Use	355	306	15.7%
System Loss	1,097	1,320	(16.9)%
Total Consumption	**9,347**	**9,127**	**2.4%**

Philippines	2013	2012	% Growth Rate
Residential	*20,614*	*19,695*	*4.7%*
Commercial	*18,304*	*17,777*	*3.0%*
Industrial	*20,677*	*20,071*	*3.0%*
Others	*1,971*	*1,668*	*18.2%*
Total Sales	**61,566**	**59,211**	**4.0%**
Own-Use	5,959	5,351	11.4%
System Loss	7,741	8,360	(7.4)%
Total Consumption	**75,266**	**72,922**	**3.2%**

Note:

-Own Use includes Distribution Utilities company used and Power Plants Station Used.
-System Losses includes Distribution Utilities losses and Transmission losses (substation used, transformation and other unaccounted losses).

-Others includes public buildings, street lights, irrigation, energy recovered and others not elsewhere classified.

Source: Department of Energy

Table 33. Sectoral Share to 2013 Total Electricity Sales and Consumption by Grid

Luzon	Total	% Share to Total Sales	%Share to Total Consumption
Residential	15,056	32.9%	27.0%
Commercial	15,510	33.9%	27.8%
Industrial	14,379	31.4%	25.8%
Others	859	1.9%	1.5%
Total Sales	**45,803**	**100.0%**	82.2%
Own-Use	4,550		8.2%
System Loss	5,383		9.7%
Total Consumption	**55,736**		**100.0%**

Visayas	Total	% Share to Total Sales	%Share to Total Consumption
Residential	2,735	34.8%	26.9%
Commercial	1,446	18.4%	14.2%
Industrial	3,137	39.9%	30.8%
Others	550	7.0%	5.4%
Total Sales	**7,868**	**100.0%**	77.3%
Own-Use	1,055		10.4%
System Loss	1,260		12.4%
Total Consumption	**10,183**		**100.0%**

Mindanao	Total	% Share to Total Sales	%Share to Total Consumption
Residential	2,823	35.8%	30.2%
Commercial	1,348	17.1%	14.4%
Industrial	3,161	40.0%	33.8%
Others	563	7.1%	6.0%
Total Sales	**7,895**	**100.0%**	84.5%
Own-Use	355		3.8%
System Loss	1,097		11.7%
Total Consumption	**9,347**		**100.0%**

Philippines	Total	% Share to Total Sales	%Share to Total Consumption
Residential	20,614	33.5%	27.4%
Commercial	18,304	29.7%	24.3%
Industrial	20,677	33.6%	27.5%
Others	1,971	3.2%	2.6%
Total Sales	**61,566**	**100.0%**	81.8%
Own-Use	5,959		7.9%
System Loss	7,741		10.3%
Total Consumption	**75,266**		**100.0%**

Source: Department of Energy

❖ Industrial Sector

Electricity sales of the industrial customers comprised 20,677 GWh or 33.6% of total electricity sales in 2013, implying an increase of 3.0% from 20,071 GWh in 2012.

The full-year growth was driven by the impressive performance of the Mindanao industrial customers, posting a significant increase of 7.0% in 2013. The robust growth was boosted by the strong performance of manufacturing industry in the Mindanao grid. The growth in industry sector was likewise driven by the increase in nickel mining and stone quarrying activities in the grid.

Meanwhile, the electricity sales of the industry sector in Visayas rebounded by 3.5% in 2013 from a 0.2% contraction in the previous year despite of the devastation brought about by the series of natural disasters that hit the country in the last quarter of 2013.

Similarly, the electricity sales of the industry sector in Luzon continued to grow, albeit at a slower pace compared to the other grids due to weather-related disruptions brought by the consecutive typhoons and torrential rains. The industry sector electricity sales,which grew by a relatively feeble 2.1 percent in 2013 from 14,086 GWh in 2012 to 14,379 GWh in 2013, was driven primarily by the increased production of food and beverage, electrical machinery, automotive, and consumer electronics.

❖ Residential Sector

The electricity sales in residential sector continued to expand in 2013 by 4.7%, slightly lower compared to 5.4% in 2012, led by firm household consumption, improved purchasing power and increased purchases of residential properties. Likewise, higher temperature during the summer months led to increased usage of air cooling appliances.

The electricity sold to Luzon residential sector has maintained its growth momentum, growing by 5.6% in 2013 from 5.2% in 2012. The robust increase in Luzon grid's sales for the residential sector affected the whole country and was immensely fuelled by the higher temperature during the summer months which led to increased usage of air cooling appliances. In addition, the expansion was also driven largely by the gained momentum of the household consumption and exports on the expenditure side that significantly pushed the consumption growth on the household utilization of electronic appliances for food preparation and recreation.At the same time, the favorable business, positive consumer sentiments and robust household spending provided further boost to the residential electricity sales in the country, supported by stable inflation, higher overseas Filipinos remittances, and improved employment conditions.

In Visayas, electricity sales rateslowed down from 5.6 percent in 2012 to 2.5% in 2013 or an equivalent of 2, 735 GWh from the year-ago level of 2, 668 GWh due to uncertainties in supply and demand conditions after the onslaught of typhoon Yolanda in the southern areas of the Visayas grid.

On the other hand, sales of electricity in Mindanao were flabbier than of the other two grids. Mindanao residential customers grew, albeit at a slower pace of 2.1% in 2013 from 6.0% rise in overall residential sales for Mindanao in 2012.

❖ Commercial Sector

Commercial consumption increased at markedly lower rate from the resilient growth performance of 6.9% in 2012 to a modest growth of 3.0% in 2013. Similar to the previous year, sales in the commercial sector was propelled by the expansion in service sector led by real estate services sub-sector, specifically, business outsourcing (BPO) and casinos along with trade and private services sub-sectors.

Similarly, improved commercial energy sales in Luzon in 2013 were mainly associated with the growth in private services and real estate services sub-sector parallel to the increase in cooling load due to the striving domestic investment, supported by the growth pace of business process outsourcing, hotels and restaurants, wholesale and small-scale trade and retail establishments, and import and export trading.

The uptick in electricity sales inflation for the commercial sector for Luzon and Visayas was likewise underpinned by increased new business and rising employment led by the brisk performance of the real estate activities, renting and business activities engaged in transport, storage and communication, trade and repair of motor vehicles, personal and household goods and the recovery of the trading, activities towards the end of the year. Further, the resilient continued demand for services sector such as laundry services, medical and health services, educational services, hotels and restaurants, spas and beauty parlors, remained the main driver of growth of electricity sales to the commercial sector.

Meanwhile, commercial sector in Mindanao grid which account for 14.4% of total Mindanao electricity sales, dropped by 6.8% from 1,348 MW from 1,446 MW in the previous year which can be attributed to the interpretation of the RSEC-WR which prescribed new customer segmentation into just three segments, i.e. residential, low voltage, high-voltage. This was promulgated based on the ERC Resolution No. 20, Series of 2009, entitled, *"A Resolution Adopting the Rules for Setting the Electric Cooperative's Wheeling Rates"* and the promulgation of ERC Resolution No. 08, *Series of 2011,* entitled *"A Resolution Adopting the Rules Governing the Tariff Glide Path Pursuant to Article VII of the Rules for Setting the Electric Cooperative's Wheeling Rates".*

❖ Others

"Others" refer to public buildings, street lights, irrigation, agriculture and "others not elsewhere classified". This group continued to post a broad-based double-digit growth of 15.3% from 1,668 GWh in 2012 to 1,971 GWh in 2013.

The marginal increase in the performance of the "other" sector was fuelled by the substantial improvements in government spending together with the remarkable performance in infrastructure in 2013 such as public buildings and street lights due to the sustained government capital expenditure. The rebound of agriculture, hunting, forestry and fishing sector due to the healthy growth of the economy in the whole year of 2013 also contributed to the buoyant performance of "Other" sector.

❖ Own-Use and System Loss

Total system loss accounted to 7,741 GWh, corresponding to 10.3% share to total consumption. The contraction on the system loss, which mainly includes Distribution Utilities and Transmission Losses posted a 7.4% dropped in 2013 from 8,360 GWh in

2012 due to the increasing network efficiency and improved pilferage management by adopting appropriate standards and technology, and enhancing management reforms such as reducing electricity use through activities that promotes electric energy efficiency relative to demand side management.

Meanwhile, utilities' own-use for office and station use of the power plants sustained its vigorous performance, standing an aggressive double-digit rise at 11.4% in from 5,351 GWh in 2012 to 5,959 GWh in 2013.

E. 2013-2014 Significant Incidents in the Power System

15 October 2013 – Bohol Earthquake

An earthquake of tectonic origin with a magnitude of 7.2 occurred in Region VII at about 8:12 a.m, 15 October 2013 with an epicenter at Carmen, Bohol Province. This caused region-wide outages in Bohol, Cebu and Negros. Power plants such as Central Azucarera de San Antonio (CASA) and Panay Energy Development Corporation (PEDC) in Iloilo as well as the Cebu Thermal Power Plant 2 (CTPP2) and Cebu Energy Development Corporation (CEDC) in Cebu, went on outage due to vibration caused by the earthquake but went back on normal operation on the same day.

Unfortunately, majority of the supply which is coming from the Leyte grid (mainly from Unified Leyte Geothermal Power Plant) thru the submarine cable connecting Bohol and Leyte was cut off due to the earthquake.

08 November 2013 – Super Typhoon Yolanda/Haiyan

On November 8, 2013, Super Typhoon Yolanda (International Name: Haiyan) cut a devastating path across the central Philippines, which made a landfall at Guiuan, Eastern Samar. It has a storm strength of category 5 - highest and the strongest tropical cyclone to ever make a landfall. It has a sustained wind speed at 195 miles per hour and wind gusts up to 235 miles per hour. This natural calamity caused severe damages to the power system in Visayas. In the transmission side, NGCP accounted five hundred sixty six (566) transmission structures (two hundred forty eight (248) towers and three hundred eighteen (318) poles) that were damaged by the typhoon. Also there were seven (7) substations that were damaged in Visayas.

Majority of distribution utilities in Visayas, as well on Bicol and MIMAROPA regions, suffered immensely during the devastation of the typhoon. There were also power plants that incurred damages from the strong wind of the typhoon. These are as follows:

- Tongonan Geothermal and Unified Leyte (Cooling towers of the Malitbog, Tongonan and Mahanagdong Power Plants have sustained damages. Admin building and control rooms were also damaged); and
- PB 103 in Estancia, Iloilo (detached mooring causing damage to hull and oil spill to the area)

11 November to 10 December 2013 – 30-day Malampaya Off-shore Gas field Turn-around

The Malampaya Turnaround is a preventive maintenance schedule. Specifically, this is intended for the replacement of the obsolete Safety Instrumented System (SIS) and Fire and Gas System on SWP. It also includes additional works such as implementation of changes

to enable production of new wells for Malampaya Project 2 and, completion of critical electrical tie-ins for the depletion compressors. Original schedule was 01 November to 01 December 2013 but was moved to a new schedule of 09 November to 08 December 2013. This was further moved to a later date, 11 November to 10 December 2013. The two-day deferment was caused by trouble that might cause to the shipment of equipment and personnel to the off-shore gas field during the Super Typhoon "Yolanda" (Haiyan) that hit Central Visayas on 08 November 2014.

This activity on Malampaya off-shore gas field caused tight supply condition in the Luzon grid. Ilijan Block A operated at a limited capacity of 420 MW due to biodiesel operation then went on planned outage from 05 to 10 December 2013 due to 5-day nozzle cleaning in preparation for the gas operation. On the other hand, Block B was out for Maintenance from 12 November to 12 December 2014. Available units of Sta Rita and San Lorenzo power plants operated using alternate fuel during the turnaround. Aside from these outages of natural gas power plants, there were other outages that occurred within the turnaround period that alleviated the tightness of supply in Luzon as follows:

- GNPower Unit 2 (Forced outage from 12 to 19 November 2013 due to turbine vibration correction);
- Calaca Unit 1 (Forced outage from 26 October to 15 November 2013 due to low condenser vacuum); and
- Pagbilao Unit 2 (Planned outage from 31 August to 26 November 2013)

Several coal-fired generating units also suffered boiler tube leak during the latter part of the turnaround causing severe supply shortage in the Luzon grid and high offer price of peaking power plants in the Wholesale Electricity Spot Market (WESM). The coal-fired power plants that went on forced outage due to boiler tube leak are as follows:

- GNPower Unit 2 (Forced outage from 27 November to 08 December 2013);
- Pagbilao Unit 1 (Forced outage from 28 November to 12 December 2013);
- Pagbilao Unit 2 (Forced outage from 28 November to 13 December 2013); and
- Masinloc Unit 1 (Forced outage from 06 to 08 December 2013)

27 February 2014 – Mindanao Blackout

On 27 February 2014, Mindanao experienced a grid-wide blackout due to a demand and supply imbalance causing underfrequency (UFR) due to the combination of events of unwanted loss of generation of 2 x 105 MW STEAG Mindanao Coal-fired Power Plant caused by unprecedented plant control system trouble, defective equipment of Agus 1 Hydroelectric power plant and insufficient Automatic Load Drop (ALD) at Off-Peak scenario.

Repair of the Unit 1 (105 MW) was completed on 08 May 2014 and Unit 2 (105 MW) went online on 01 June 2014.

12 July 2014 – PIGging activity for Ilijan Pipeline

Due to the compromised integrity of the Ilijan pipeline supply natural gas, the National Power Corporation, in coordination with the other stakeholders such as Shell Philippines Exploration B.V, KEILCO, DOE, NGCP, PSALM to conduct a "pigging" activity to check if there were abnormalities such as leaks, malformation or dents within the pipeline. An instrument called PIG, which stands for Pipeline Intelligence Gauge, was inserted in the pipeline and traveled from Tabangao on-shore gas facility to the Ilijan power plant. This activity will be the first pigging of the said pipeline after it was constructed twelve (12) years ago.

The PIGging activity for Ilijan pipeline was finalized and on scheduled on 11 July 2014 (2200H) to 13 July 2014 (2200H) for the purpose of inspecting its integrity, as well as to clean the debris in the pipeline. Due to this activity, the Luzon grid experienced Red alert on 12 July 2014, Saturday, due to generation deficiency caused by limited capacity of Ilijan, coupled by outages from Masinloc Unit 1, Calaca Unit 2, Pagbilao Unit 1 and GN Power Unit 2.

15-16 July 2014 – Typhoon Glenda/ Rammasun

Typhoon Glenda (International Name: Rammasun) hit the Luzon particularly Bicol region, Southern and Central Luzon as well as Metro Manila. It had 250 kph wind and caused Php38 billion damage to agriculture and infrastructure[3].

Power supply from power plants such coal plants of Pagbilao and QPPL as well as natural gas plants like Ilijan, Sta Rita and San Lorenzo were compromised because of the passage of the typhoon. Around ninety percent (90%) of Meralco's franchise area has experienced power outage brought about by downed poles, lines and outages of transmission lines due to Typhoon Glenda according to NGCP.

F. Significant Outages For 2014[4]

LUZON

- **Calaca Unit 2 (300 MW)** – on extended planned outage from 31 December 2013 to 14 May 2014
- **Pagbilao Unit 1 (382 MW)** – on extended planned outage from 10 June to 14 July 2014
- **Pagbilao Unit 2 (382 MW)** – on planned outage from 29July to 22 August 2014
- **Masinloc Unit 2 (315 MW)** – on forced outage due to series of boiler tube leaks from 17 March to 18 April 2014
- **Sual Unit 1 (647 MW)** – on scheduled maintenance from 25 September to 25 October 2014
- **Sual Unit 2 (647 MW)** – on scheduled maintenance from 29 August to 29 September 2014
- **GNPower Unit 1 (326 MW)** – on extended planned outage from 25 December 2013 to 28 March 2014
- **GNPower Unit 2 (326 MW)** – on forced outage due to generator excitation trouble from 5 September to 3 October 2014
- **Malaya Unit 1 (300 MW)** – on forced outage due to high vibration trouble since 21 March 2014
- **Ilijan Block A and B (1,200 MW**) – extended planned outage during the PIGging activity from 11 to 13 July 2014
- **Sta Rita Module 40 (265 MW**) – on forced outage due to power transformer trouble from 27 February to 19 July 2014
- **Kalayaan Unit 1 (180 MW) –** on scheduled maintenance from 1 July to 11 September 2014

[3]Data gathered from the last update by National Disaster Risk Reduction and Management Council (NDRRMC) as of September 16, 2014
[4]Based on submitted Grid Operating Program (GOP) Revision 3 of National Grid Corporation of the Philippines (NGCP) dated 14 Oct 2014

- **Magat Unit 1 (90 MW) –** on half-life refurbishment from 12 January to 11 June 2014

VISAYAS

- **PB 103 (32 MW) –** on deactivated shutdown doe to damaged mooring site and barge hull following passage of TY Yolanda since 8 November 2013
- **Unified Leyte – Upper Mahiao GPP (136 MW) –** on forced outage due to 26 January 2014 earthquake near Leyte from 26 January to 4 February 2014
- **CEDC Unit 2 (82 MW) –** on forced outage due to leaking feedwater control valve from 20 July to 5 August 2014
- **KSPC Unit 1 (100 MW) –** on scheduled maintenance from 5 to 22 July 2014
- **PEDC Unit 2 (82 MW) –** on scheduled maintenance from 30 January to 15 February 2014
- **CASA Bio (15 MW) –** on forced outage due to end of milling season from 11 May to 31 October 2014
- **FFHC Bio (21 MW) -** on forced outage due to end of milling season from 2 May to 15 August 2014
- **FFHC Bio (21 MW) -** on forced outage due to end of milling season from 15 April to 23 August 2014

MINDANAO

- **STEAG Mindanao Coal-fired Power plant Unit 1 (105 MW)** – on forced outage due to plant control system trouble from 27 February to 30 May 2014
- **STEAG Mindanao Coal-fired Power plant Unit 2 (105 MW)** – on forced outage due to plant control system trouble from 27 February to 7 May 2014
- **PB 117 Unit 1 (50 MW)** – on emergency shutdown due to high exhaust gas temperature from 8 July to 13 September 2014
- **Agus 6 Unit 2 (25 MW)** - on series of forced outage from 29 January to 15 March 2014 (High thrust bearing temperature), 19 April to 7 June 2014 (emergency shutdown due to unusual sound from the excitation unit) and 10 June 2014 onwards (governor system problem)
- **Agus 6 Unit 3 (50 MW)** – on extended planned outage from 17 February to 15 May 2014

G. DOE Initiatives in Compliance with Section 71 of the EPIRA

Section 71 of the Electric Power Industry Reform Act of 2001 (EPIRA) states that "upon the determination by the President of the Philippines of an imminent shortage of the supply of electricity, Congress may authorize, through a joint resolution, the establishment of additional generating capacity under such terms and conditions as it may approve."

As indicated in the 2014 Luzon Power Supply-Demand Outlook, tight power supply is imminent by summer of 2015 due to among others the foreseen El Nino phenomenon, level of forced outages, etc. To effectively address the tight power supply situation and come up with possible solutions at a faster pace, the DOE Secretary recommended to His Excellency, President Benigno S. Aquino III to invoke Section 71 of the EPIRA.

In a letter to House Speaker Feliciano Belmonte Jr. and Senate President Franklin Drilon dated 27 November 2014, pursuant to the provisions of Article VI, Section 26 (2) of the 1987 Constitution, President Aquino certified the necessity of the immediate enactment by the Senate and the House of Representatives of House Joint Resolution (HJR) No. 21 entitled, "*Joint Resolution Authorizing the President of the Philippines, His Excellency Benigno S. Aquino III, To Provide for the Establishment of Additional Generating Capacity As Mandated By Republic act No. 9136, Also Known As the Electric Power Industry Reform Act (EPIRA)," To Effectively Address the Projected Electricity Shortage in the Luzon Grid on March 1, 2015 to July 31, 2015*".

After a series of Committee Hearings chaired by Congressman Reynaldo Umali, Jr. and Technical Working Group meetings, the House of Representatives has approved on 10 December 2014 HJR No. 21 in response to the President's letter authorizing him for the establishment of additional generating capacity as mandated by the Republic Act. No. 9136, also known as the "Electric Power Industry Reform Act (EPIRA)".

The following are the options Included in the HJR No. 21 as the source of the additional capacity:

- Interruptible Load Program (ILP)

  As part of the Government's measure to address possible power shortage in summer of 2015, the DOE in coordination with the ERC undertook steps for the implementation of the Interruptible Load Program (ILP). The ILP is a mechanism devised to augment limited power requirements of DUs and is considered as a pro-active measure to help solve power shortages. The ILP was originally implemented in the Visayas and Mindanao Regions in order alleviate power shortage in the area during power shortages that occurred way back in 2010.

  The ILP allows the DU and the participating customers to enter into an agreement wherein the customer may be requested by its DU to be partially or fully de-loaded or disconnected for a period of time as determined by the DU. The customer shall then be paid by the DU a de-loading compensation for incremental cost incurred which shall be recovered from all customers of the DU as part of the monthly total power cost.

  This mechanism is then adopted in Luzon through MERALCO and during its initial implementation, there were 115 MW de-loading capacity registered. The authorities realized that most of companies that have capability to participate in the program are contestable customers who are already contracted with RES through the implementation of the RCOA. With this, the ERC initiated for the revision of ERC Resolution No. 8 Series of 2013 entitled "A Resolution Amending Article IV, Section 1 of the Rules to Govern the Interruptible Load Program of Distribution Utilities" in order to cover the ILP implementation for Contestable Customers (CC) which are contracted with the Retail Electricity Suppliers (RES) as well as Directly Connected Customers (DCCs).

  The proposed amendment to the rules has already gone through the initial public hearing and the ERC may soon come out with the resolution in early 2015 and is expected to provide for the protocols on de-loading and compensation mechanism for the DCCs and CCs.

In its effort to encourage more participation in the ILP, the DOE met with several large electricity end-users mostly commercial and industrial customers. During negotiations, several issues were raised such as follows:

a. The ERC approved compensation rates are not realistic without including the maintenance and other costs;
b. Need to recover Production Loss due to transition from the system to generator
c. Need for seamless transfer from DU to generator set;
d. Exemption from Manual Load Dropping (MLD);
e. Exemption from taxes that will be incurred in ILP participation;
f. Need for assurance of fuel supply, and etc.

The DOE endorsed a total of 79.6 MW ILP capacity to MERALCO and NGCP composed of 7 DU connected customers and 2 DCCs. To date, the DOE continues to coordinate with various companies with large self-generating capacity and further encourage other DUs to implement ILP in their franchise area.

- Fast tracking of new committed projects as follows; and
  a. Majestic Solar (40 MW) – December 2014
  b. Avion (100 MW) – April 2015

- Plants for interconnection and rehabilitation as follows:

  a. Navotas GT (100 MW) – March 2015
  b. Limay Combined-Cycle (36 MW) – March 2015
  c. Bauang Diesel Power plant (20 MW) – March 2015

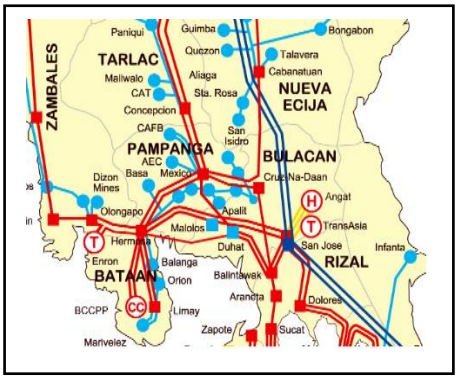
HJR No. 21 mandates the Department of Energy to administer and implement on behalf of the government the remedial measures under the Joint Resolution as well as the subsidy for the compensation for the actual energy generated to address the power shortage. The DOE, led by the Secretary of Energy in coordination with the industry stakeholders, shall promulgate the rules and regulations to implement the joint resolution.

H. Status of Transmission Projects

1. Luzon

Luzon Power Circuit Breaker Replacement (PCB) Project includes 9 x 230 kV and 9 x 115 kV PCBs as replacement for the old units in San Jose, Labo, Malaya, and Gumaca to improve the system reliability, the 115 kV PCBs included in this project are all classified as transmission assets. This project is 71.58% complete as of 30 September 2014 and is scheduled to be completed on 31 December 2014.

Figure 7. Mariveles Coal Transmission Reinforcement Project



The Mariveles Coal Transmission Reinforcement Project involves the associated grid reinforcements needed to allow the full dispatch of both the proposed Mariveles 600 MW Coal-Fired Power Plant (CFPP) and Limay Combined-cycle Power

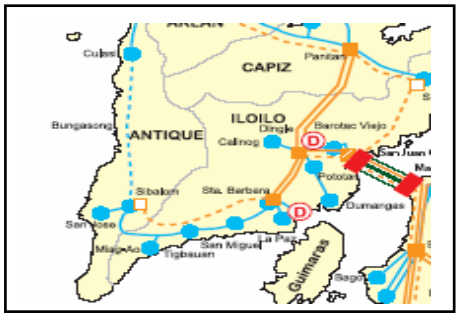
Plant (CCPP). The grid reinforcements involve the reconductoring of the existing Hermosa-Limay B-CCPP 230 kV line to maintain the N-1 provision of the line during the maximum dispatch of both CFPP and B-CCPP units. Likewise, this project also includes the replacement of PCBs at San Jose and Hermosa. The only remaining component to be completed is the BCCPP S/S expansion, at 98.2% completed as of 30 September 2014, with target date of completion on 31 December 2014.

Luzon Voltage Improvement Project 1 involves the installation of shunt reactors in Naga substation and capacitor banks in Doña Imelda, Cabanatuan, and Muntinlupa. This project is currently 99.9% complete as of 30 September 2014.

2. Visayas

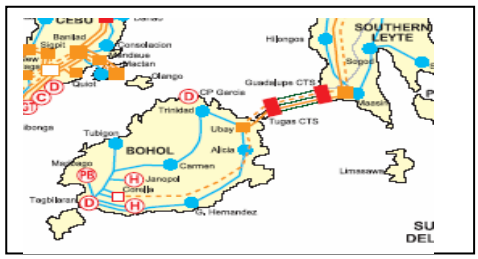
The Southern Panay Backbone 138 kV Transmission Project is part of the Panay Power Transmission backbone which involves the installation/construction of a total of 97 kilometers of 138 kV and 69 kV overhead transmission lines which is aimed to accommodate the load growth and address the low voltage problem in Southern Panay. As of 30 September 2014, the transmission and substation components of the project are 99.9% and 90.6% complete respectively with target date of completion on 31 December 2014.

Figure 8. Southern Panay Backbone 138 kV Transmission Project



The Bohol Backbone 138 kV Transmission Project involves the installation/construction of a total of 96 kilometers of 138 kV overhead transmission line utilizing steel tower structures and the installation of a 100 MVA power transformer at the new Corella Substation which is intended to provide a new delivery point. The transmission and substation components of the project were energized on 21 June 2014 and 30 June 2014 respectively.

Figure 9. Bohol Backbone 138 Transmission Project



3. Mindanao

In the Mindanao Grid, the Balo-I (Abaga)-Villanueva (Kirahon) 230kV Transmission Project will provide additional transmission corridor to the Agus Hydro complex. This project will also serve as an initial step in developing a higher capacity transmission highway from north to south of the grid to meet the increasing demand in Davao area. Likewise, the Villanueva (Kirahon)-Maramag 230 kV Transmission Project will complete the 230Kv Transmission Backbone linking Northern and Southern Mindanao. Both projects are designed at 230kV but will initially be energized at 138kV. As of 30 September 2014, the transmission and substation components of the Balo-I (Abaga)-Villanueva (Kirahon) 230kV Transmission Project, scheduled for completion by 31 December 2014, are 99.1% and 99.1% complete while the Villanueva (Kirahon)-Maramag 230 kV Transmission Project was energized on 15 August 2014.

Figure 10. Aurora-Polanco 138 kV T/L

The Aurora-Polanco 138 kV T/L Project, scheduled for completion by September 2014, is intended to serve the growing power demand of Dipolog City and surrounding load centers. This will ensure a continuous and reliable power supply in the area. Currently, Dipolog City including neighboring cities and municipalities draw their power requirements from the Aurora Substation a very long 69 kV single circuit transmission line. As of 30 September 2014, the transmission and substation components of the project are 30.5% and 28.0% complete respectively. The contractor of the project, China National Electric Engineering Company Limited has backed out thus, the NGCP will re-bid the remaining component of the project.

I. Distribution Infrastructure Projects

1. ERC-Approved Capital Expenditure (CAPEX) Projects

During the report period, the ERC approved eleven (11) Capital Expenditure (CAPEX) Projects applied by Oriental Mindoro Electric Cooperative, Inc. (ORMECO), Bohol II Electric Cooperative, Inc., First Laguna Electric Cooperative, Inc., Pampanga Rural Electric Cooperative, Inc. (PRESCO), Negros Oriental I Electric Cooperative, Inc. (NORECO I), Lanao Del Norte Electric Cooperative, Inc. (LANECO), Occidental Mindoro Electric Cooperative (OMECO), Zamboanga City Electric Cooperative, Inc. Davao Oriental Electric Cooperative, Inc. (DORECO), Bukidnon Second Electric Cooperative, Inc. (BUSECO), and City of Olongapo. Annex 15 shows the said approved CAPEX projects as of the report period.

2. Private Sector Financing of CAPEX Projects on System Loss Reduction

Over the six-month period, the second term loan releases availed by BOHECO I amounting to PhP81.07 million and first for BOHECO II at PHP184.18 brought the number of booked EC accounts under the Electric Cooperative Partial Credit Guarantee (ECPCG) Program to 21. Total investments made to these ECs stood at PHP2.830 billion that are supported by a guarantee of PHP2.264 billion provided by the Program. Since the Program's implementation, the partial guarantee facility is now leveraged at 3.09 as majority of these ECs have started paying for their principal and interests payments.

At the end of this report period, there are still three (3) EC accounts that have participated in the Program but have yet to make draw down from the loans approved by their lender banks.

Table 34. ECs Booked in EC-PCG Program

EC		Loan Amount (PhP Million)	Lender	Signing Date of Loan and Guarantee Agreements
A. Booked Accounts with loan releases				
1	MORESCO I	115.00	Security Bank	July 20, 2010
2	PANELCO I	113.00	BPI	September 15, 2010
3	SOCOTECO I	102.42	BPI	October 05, 2010
4	SURNECO	85.00	UCPB	March 03, 2011
5	FIBECO	143.00	PNB*	May 16, 2011
6	BUSECO	135.90	BPI	February 11, 2011
7	BOHECO I	109.62	DBP	June 13, 2011
8	DANECO	172.37	UCPB	October 04, 2011
9	MORESCO II	135.49	BPI	December 16, 2011
10	CANORECO	133.25	BPI	July 15, 2011
11	LUELCO	173.12	PNB*	December 07, 2012
12	MOELCI I	167.73	UCPB	July 06, 2012
13	CAMELCO	140.00	BPI	November 09, 2011
14	NEECO I	173.54	PNB*	June 06, 2012
15	BENECO	163.50	BPI	December 28, 2012
16	BUSECO (Additional)	43.49	PNB	December 13, 2012
17	FICELCO	106.10	Security Bank	July 26, 2013
18	LEYECO V	185.86	Security Bank	December 03, 2013
19	PALECO	167.00	PNB	December 19, 2012
20	BOHECO II	184.18	Security Bank	June 27, 2013
21	BOHECO I (Additional)	81.07	DBP	May 13, 2014
Sub-Total		**2,830.64**		
B. Committed Accounts (Booked Accounts with no loan releases yet)				
1	GUIMELCO	79.85	Security Bank	November 21, 2013
2	AKELCO	181.72	UCPB	August 16, 2013
3	CENECO	191.68	Security Bank	July 08, 2014
Sub-Total		**453.25**		
Grand Total		**3,283.89**		

*** These accounts were originally booked by Allied Bank prior to its merger with PNB.**

Source: DOE, LGUGC

VI. TOTAL ELECTRIFICATION

In support of the Government's efforts to alleviate poverty, the DOE launched a massive and focused action to increase and accelerate access to electricity services by the country's unenergized communities.

Table 35. Electrification Targets Per Implementors

DOE	**6**
BEP	1
RAES	5
ER 1-94	0
MERALCO	0
AMORE	**0**
Total	**6**

Source: DOE

To further strengthen and integrate efforts on rural electrification by both the Government and the private sector, and assist the DOE to develop innovative and sustained policies and strategies consistent with the power sector reforms embodied in the EPIRA, the Expanded Rural Electrification Program (ER Program) was established, building around the basic concepts and objectives of its predecessors. The ER Program aims to achieve one hundred percent (100%) barangays electrification by 2008 and ninety percent (90%) household electrification by 2017. As of the report period, the Program has already achieved 99.98% of the total potential barangay nationwide. The energization of forty one thousand and nine hundred sixty eight (41,968) barangays was spearheaded by the DOE with assistance from the NEA, NPC-SPUG, and PNOC and its subsidiaries.

Table 36. Barangay Electrification Status as of 31 October 2014

Region	Potential Barangays	Electrified Barangays	Unelectrified Barangays	Electrification Level (%)
CAR	1,176	1,176	0	100.00
I	3,265	3,265	0	100.00
II	2,311	2,311	0	100.00
III	3,102	3,102	0	100.00
IV-A	4,010	4,010	0	100.00
IV-B	1,458	1,458	0	100.00
V	3,469	3,469	0	100.00
NCR	1,695	1,695	0	100.00
Sub-Total Luzon	***20,486***	***20,486***	**0**	**100.00**
VI	4,050	4,050	0	100.00
VII	3,003	3,003	0	100.00
VIII	4,389	4,389	0	100.00
Sub-Total Visayas	***11,442***	***11,442***	**0**	**100.00**
IX	1,904	1,904	0	100.00
X	2,020	2,020	0	100.00
XI	1,160	1,160	0	100.00
XII	1,194	1,194	0	100.00
ARMM	2,458	2,444	9	99.43
CARAGA	1,310	1,310	0	100.00
Sub-Total Mindanao	***10,046***	***10,040***	**6**	**99.94**
Total Philippines	**41,974**	**41,968**	**6**	**99.99**

Source: DOE

A. Qualified Third Party (QTP) Approach

Under *Section 59 of EPIRA*, areas deemed unviable and waived by the DUs may be offered to QTPs as part of the missionary electrification program. There is now a growing interest among private sector to enter into QTP operations with the entry of the renewables in off-grid electrification. Said interest was generated by the various incentives offered to private sector among which is the cash generation based incentive per kWh generated, equivalent to fifty percent (50%) of the Universal Charge (UC) in the area where it operates. Hence, the program anticipates the future development of mini-grid and micro-grid electrification projects using solar, biomass, wind and other renewable energy sources by other proponents that may also adopt QTP approach.

The DOE through the assistance of the EU-Switch Programme, undertook a study to Accelerating Private Sector Participation in Offgrid Areas. The Policy Study aimed to review the existing laws/rules and policies on PSP in offgrid areas and develop implementing schemes and guidelines to modify existing framework and processes. A key deliverable of this Policy Study is the proposed amendment of the DOE QTP Circulars. The Policy Study has been completed in October 2014 after it has been subjected to consultations with the key stakeholders.

Following are the updates on the QTP Program being spearheaded by the DOE:

1) Rio Tuba QTP Project in Bataraza, Palawan

PowerSource Philippines, Inc. (PSPI) continues to operate as QTP in Barangay Rio Tuba. For the reporting period, the average monthly net electricity generation reached 227,750 kWh while the monthly electricity sales at 196,684 kWh, both of which indicated a minimal increase of about twelve percent (12%) as compared with the last year's electricity generation and sales. Total connected households to-date are 1,756. The operation of its biomass gasifier is on hold pending arrival of a brand new gas engine by November 2014. The gasifier intends to supplement the existing capacity as demand continues to increase in the site. PSPI's application for the Biomass Renewable Energy Operating Contract (BREOC) is pending review of the DOE REMB.

2) Malapascua QTP Project in Malapscua Island, Logon, DaanBantayan, Cebu

For the second QTP Project of PSPI, ERC conducted the public hearing last 20 February 2014 for the determination of the tariff and approval of PSPI's operation as QTP in the island. ERC issued a Provisional Authority last March 8, 2014. Subsequently, ERC directed PSPI to develop its pricing system for the island. In compliance, PSPI conducted public consultation on the said pricing system last 14 August 2014. Presently, PSPI awaits ERC's issuance of its Final Authority to Operate (ATO) as the former has already complied with the latter's directive to submit additional documents and evidences to support its petition through a Memorandum filed with the ERC on September 21, 2014. Under the ERC Rules on Practice and Procedure, the Commission has a period of one year from issuance of provisional approval to grant final approval of a rate application.

Meanwhile, PSPI continues to operate its existing generating facility in the island. For the period January to September 2014, its average net electricity generation was around 75,512 kWh per month with its average electricity sales is about 69,846 kWh. There was a significant decrease of about twenty three percent (23%) in both generation and sales as compared with the last year's operations. Said decrease can

be attributed to the extensive damage brought about by Super Typhoon Yolanda in November 2013. To-date, total customer connections are eight hundred nine (809) as compared with last year's seven hundred eleven (711) connections. It can be noted that while electricity sales declined during the reporting period as compared with the same reporting period of last year; total customers connected increased by fourteen percent (14%).

3) Liminangcong in Taytay and Candawaga/Culasian in Rizal both in Palawan

The mini-grid systems in these barangays were funded by the Provincial Government of Palawan (PGP) and operated by a Barangay Power Association. In February 2013, a Master Agreement was signed between PGP and PSPI for PSPI to take-over the management and operations in nine (9) areas including Liminangcong and Candawaga/Culasian. Consequently, an Alliance with Palawan Electric Cooperative, Inc. (PALECO) was signed in November 2013 for the electrification of remote and unviable areas through the QTP Program of which these areas were also included. Presently, DOE awaits submission of full technical and financial proposal by PSPI for the former's review. Once the documents are submitted, PSPI shall be advised to commence negotiation with NPC-SPUG for its QTP Subsidy and Service Agreement (QSSA). For the meantime, the Waiver Agreements for these two (2) areas were recently signed**.**

4) Balut Island in Sarangani, Davao Occidental

In March 2014, Davao del Sur Electric Cooperative (DASURECO) submitted its Board Resolution No. 50, Series of 2014 temporarily waiving its franchise to operate in Balut Island covering seven (7) barangays and Saranggani Island covering four (4) barangays in the Munic8ipality of Sarangani, Davao Occidental. In compliance with the DOE Circulars on QTP Participation, DOE issued Public Notice No. 2014-04-0001 "Declaration of Remote and Unviable Areas Pursuant to Section 8 of the EPIRA and Rule 14 of its IRR on 25 April 2014 for these subject remote areas. Said Public Notices called for Expression of Interest (EOI) from all interested parties willing to provide electricity service in these declared unviable areas. A Supplementary Advisory was issued on 12 May 2014 setting the deadline of 10 June 2014 for the submission of the EOIs. These Public Notices were posted at the DOE website for one month.

In response to the posting, PSPI submitted its proposal to electrify Balut Island 24/7 to DOE last August 20, 2014. Since only one proposal was received, the DOE Circular requires that DOE shall publish at its website for at least one month from publication date, relevant information on the proposal and invite other entities to match the offer. Hence, the DOE issued a Public Notice No. PN2014-10-0003 dated September 25, 2014 enjoining parties including private entities, local government units, cooperatives and non-government organizations to submit counter proposal to match the offer of PSPI on or before 25 October 2015. If no counter proposal was received by DOE, it will evaluate the technical proposal submitted by the first proponent and if found in order, shall advise PSPI to commence negotiation with NP-SPUG for the QTP Service Contract.

The QTP Service Contract refers to the agreement between NPC and the QTP defining the latter's responsibilities in providing the electric service in the declared unviable area. It sets the conditions by which the QTP shall provide the service such as the applicable performance and service standards, electric service charges and the proposed tariff vis-a-vis the full-cost recovery rate (FCRR) for the QTP operation.

To date, no proposal was received for Sarangani Island. This will now be included in the MEDP for programming.

5) Calayan Island, Cagayan

On 22 May 2014, Cagayan Electric Cooperative II (CAGELCO II) issued a Board Resolution No. 028-0426 series 2014 "temporarily waiving its franchise to operate in Camiguin Island and Calayan Island in the Municipality of Calayan, Cagayan Province. Subsequently, DOE forwarded the Board Resolution to NEA for its verification which to date, DOE awaits response from NEA. Coordination meetings among DOE, NPC-SPUG, NEA, CAGELCO II and the Calayan LGU were conducted to discuss the best option in providing electricity service in the island.

6) Brgy. Cabayugan , Puerto Princesa City

This unviable area was declared open for provision of electric service by a QTP with the issuance of PALECO's Board Resolution No. 234 Series of 2013. PALECO received an unsolicited proposal and entered a Memorandum of Agreement with the City Government of Puerto Princesa City and WEnergy Global PTE LTD on March 2013 to plan, build and operate a Micro-grid Hybrid Solar PV and Diesel Power Plant in the area with an immediate focus on Sitio Sabang. Consequently, WEnergy and Delta P Inc. formed a Joint Venture named as Sabang Renewable Energy Corporation (SREC)

The DOE issued Public Notice No. PN 2014-04-0002 in April 2014, inviting other interested parties to submit proposal on the electrification of the subject area. Only SREC submitted the proposal. SREC is now negotiating with NPC-SPUG for its QTP Service Contract.

7) Semirara Project in Caluya, Antique

As of the report period, Semirara Utilities, Inc. is still to formally submit its technical and financial proposal to provide electricity service in the three (3) barangays in the Semirara Island.

B. Household Electrification Development Plan

On 29 September 2014, Secretary Carlos Jericho L. Petilla signed and issued Department Circular No. DC2014-09-0018 "Prescribing the Policies for the Implementation of the Household Electrification Program and Creating the Household Unified Strategic Electrification (HOUSE) Team for the Purpose of Achieving the Country's Total Electrification Goals".

To effectively implement the plan, a (HOUSE) Team as a multi-agency team composed of DOE, NEA, SPUG, DBM, DSWD and DILG was established and set to be organized for its very first meeting on November 12, 2014. This will be supported by the HOUSE Technical Working Group (HOUSE-TWG) responsible in providing technical and managerial support to the HOUSE Team to further ensure a well-coordinated program in pursuing accelerated household electrification and among others.

The DOE has just recently concluded its last leg of HEDP Information, Education and Communication Campaign (IEC) and Planning Workshop in Naga last 17 October 2014.

Successful IECs were also conducted in Palawan, Cebu, Davao and Baguio. These activities were spearheaded by EPIMB-REAMD with participants from the Distribution Utilities (DUs) to enhance the capacity of the DOE to develop programs/plans that will contribute in achieving the target of ninety percent (90%) Household Electrification level by 2017.

- HEDP Major Programs And Activities

  Different planned programs, projects and activities to implement the different policy measures and strategies in order to attain the Government's goal of ninety percent (90%) household electrification by end of year 2017. The individual DDP submissions of the DUs shall incorporate necessary changes to include incremental activities in support to HEDP as well as the implications of increased household electrification in their respective demand forecasts, including measures to avoid overloading of facilities and other performance impacts.

  In summary, the grid electrification will remain the main strategy of the Government's household electrification program due to its unlimited potential contribution towards greater economic opportunities and improvement of the quality of life of Filipino households. Intensification of household connections in areas with existing electrification shall be pursued by DUs using more pro-active and innovative marketing strategies. Problems of urban electrification shall also be addressed. For off-grid and far-flung areas, the Government shall promote the scaled-up utilization of decentralized, renewable energy systems and technologies such as solar home system (SHS), micro-hydro, biomass and wind systems. SHS and other decentralized systems are viewed as the main strategy of the DUs to fulfill their universal service obligation, control the number of marginal end-users, and ensure the reliability and quality of the distribution system. Corresponding capacity building activities, policy development and other technical assistance shall be undertaken to ensure the attainment of the program goal.

  1. Intensification of the Household Connections Program

  This aims to encourage DUs to fast-track the connections of unelectrified HHs located in the existing electrified areas (rural and urban). DOE, in cooperation with LGUs, DUs and other stakeholders, will develop strategies to promote the intensification activities such as streamlining of connection process, LGU-DU tie-ups for assistance in connection permits, etc. MERALCO and other DUs covering cities and large urban areas shall be encouraged to address the issue of slum electrification and illegal connection.

  2. NEA's Sitio Electrification Program

  This refers to NEAs program of attaining 100 percent sitio electrification in the country. To enhance the efficiency of the program, NEA and ECs must ensure that only deserving poor HHs shall be accorded with grants for connection costs and housewiring. In addition, sitios that are deemed located within the commercial parts of the DU's franchise area must be deemed as least priority and should be considered for DU's own financing. Sitios that are deemed too remote, with highly dispersed households, and no productive use opportunities should be considered for off-grid electrification such as SHS and micro-grids.

Table 37. NEA's Sitio Electrification Program Status

Year	Targets	Project Cost (PhpB)	Accomp.	Cumulative Total Accomp.	House Connection	Remaining Balance (Unenergized Sitios)
Baseline No. of Unenergized Sitio (June 2011)						32,441
2011	1,410	0.814	1,520	1,520	30,014	30,921
2012	6,007	4.053	6,163	7,683	180,210	24,758
2013	10,394	6.650	898	18,077	311,820	14,364
2014	7,107	4.548		25,184	213,210	7,257
2015	7,257	4.644		32,441	212,710	0
Total	***32,175***	***20.709***	***8,581***	***84,905***	***947,964***	

Source: NEA

3. NEA's Barangay Line Enhancement Program

This aims to rehabilitate those barangays previously energized by off-grid solutions but deemed unsustainable. To enhance the program, it shall only cover those off-grid barangays that are already economically feasible for distribution line extension. NEA shall assist in recovering the existing off-grid electrification facilities still owned by the Government for reconfiguration and transfer to other far-flung areas that can be best served by off-grid solutions.

4. Solar Home System (SHS) Electrification

The program aims to scale-up the successful approaches for SHS electrification based on the lessons learned from the past and recent activities in the country. The program has two (2) components as follows:

a) SHS Mainstreaming Program

This program aims to encourage the DUs/ECs in implementing the SHS mainstreaming/fee-for-service approach for dispersed households and highly remote areas in their franchise areas. A World Bank-funded study showed the said approach is the most promising delivery mechanism for large-scale and sustainable SHS electrification of dispersed HHs and remote rural areas not viable for grid extension. Said concept was successfully piloted in six (6) ECs with a 3.002 total households served. With the pilot implementation, the ECs have generated strong experiences on the procurement, installation, the operations/maintenance of the solar PV systems in their respective residential customers. It has proven that the said approach is the most promising mechanism for scaled-up SHS dissemination. The DOE is seeking assistance to the World Bank for the development of a program to establish an Output-based Aid (OBA) Facility for DUs' Public-Private Partnership in accessing commercial financing for SHS mainstreaming projects.

The positive result of the pilot implementation drove the Department to issue Department Circular No. DC 2014-007-0012 entitled "Accelerating Household Electrification in Off-grid and Isolated Areas through Supply of Regulated Solar Home Systems" which was signed last 03 July 2014. The said Circular laid down the policies for the provision of electric service by the DUs.

Subsequently, the DOE through the Philippine Rural Electrification Cooperative Association (PhilRECA), filed in April 2014, a proposed rules to

govern the setting a regulated solar home system (SHS) tariff for the provision of electricity service for rural electrification by the Electric Cooperatives (ERC Case No. 2014-003 RM). The petition was subjected to a series of public consultations in Luzon, Visayas and Mindanao. It is expected that ERC will issue the Rules before end of 2014.

b) Household Electrification Projects by NGOs and other Partners

Team Energy Foundation, Inc. (TEFI) will continue its successful SHS electrification project in Polilio Group of Islands, Quezon to fully attain one hundred percent (100%) HH electrification. To enhance the project, TEFI will coordinate with QUEZELCO II (the local EC) for handoff arrangement and takeover of the EC once TEFI completes its mission in the area. TEFI has also introduced social enterprise approach to supplement electrification with productive uses. TEFI shall also expand its activities in other areas including Zamboanga Peninsula.

5. DOE's Area-based Program for Household Electrification

This specific DOE intervention shall demonstrate the various innovative strategies under the HEDP in assisting the DUs for the two major purposes: (i) Attaining one hundred percent (100%) household electrification at franchise level on or before 2017 for ECs that are already nearing one hundred percent (100%) household electrification as of 2011; and, (ii) Doubling of the current household electrification level by 2017 or earlier for ECs are with highest number of unelectrified households as of 2011. Table 38 shows the initial list of ECs to be covered by the above program. The experience that will be established from this endeavor will provide vital information to the Government in the setting a more realistic targets of the overall electrification program in the future.

Table 38. Initial List of ECs to be covered by the DOE's Area-based Program

No.	Name of EC	Region	Total HHs as of 2011	HH Level as of 2011	Estimated Pot. HH Connections 2012-2017	Years to Attain 90% Electrification * (BAU Scenario)	Goal under DOE's Household Electrification Plan
1	BATANELCO	II	4,348	87.7%	1,017	6.8	Attain 100% household electrification on or before 2017; Roll-out expansion of distribution system; SHS Mainstreaming for dispersed households; Employ renewable mini-grid where feasible.
2	SIARELCO	CARAGA	23,443	94.3%	3,924	4.1	
3	SURSECO I	CARAGA	58,190	97.8%	7,715	3.5	
4	CAMELCO	X	18,514	76.6%	6,379	10.6	
5	PROSIELCO	VII	21,597	75.4%	7,692	8.7	
6	SURSECO II	CARAGA	58,872	90.3%	12,218	3.6	
7	SOCOTECO II	XII	284,194	41.8%	196,850	53	Double the household electrification level on or before 2017; Roll-out expansion of distribution system; SHS Mainstreaming for dispersed households; Employ renewable mini-grid where feasible.
8	DANECO	XI	283,722	48.1%	178,623	32	
9	ZAMSURECO I	IX / X	193,110	41.45%	134,377	33.692	
10	DASURECO	XI	204,645	46.17%	132,739	37.854	

Source: DOE

Clearly, the goal of the ninety percent (90%) household electrification by 2017 is not a walk in the park. The challenge of providing electricity to additional 4.9 million Filipino households is a multi-faceted task requiring new strategies and approaches in terms of technology applications, financing, institutional strengthening and program management. Effective planning, sound decision making in terms of project selection and design, ring-fencing of funds, appropriate

application of subsidies, and cooperation among stakeholders will surely reduce the burdens and risks of implementing such vast program in the next six (6) years.

C. Philippine Rural Electrification Service (PRES) Project

As of the report period, the financing for the PRES Phase II was secured by the AFD Manila for the rehabilitation of the systems installed under the PRES project. This phase will also provide for the sustainable operations of the project as the appropriate institutional arrangement will be identified and implemented. It is expected that Phase II will commence implementation by early 2015.

D. Rethinking and Affirming the Missionary Electrification Targets and Strategies

In the 2012 Missionary Electrification Development Program (MEDP), the DOE formally took cognizance of the prevailing condition of missionary electrification: in spite of the increase in the amount of subsidy from the Universal Charge and other government appropriation throughout the years, upholding efficiency and reliability in missionary electrification (generation and distribution) remains a challenge. Recurring incidence of outages due to either or both power supply shortage caused by lack of fuel or engine failure and line fault continues to hamper the economic progress of off-grid areas. Such inability of electricity service to become commercially viable thereby prevents the reduction and graduation from dependency from subsidy.

With this challenge, the DOE is affirming the following policies and strategies:

1. **Creation of a new business model for SPUG that is appropriate for responsible missionary electrification**

   SPUG shall remain as the predominant national government-owned and controlled corporation that will perform missionary electrification. However, problems like economies of scale in NPC-SPUG power plants operating in missionary areas where high plant use and losses continue because of the inverse relationship between the supply of power/operating hours and the demand of power in missionary areas. Small island and isolated grids (SIIGs) that have low demand resulted into high operations cost. On the other hand, being the residual power generation group of NPC and having high dependence from public fund to finance its operation, SPUG has to transform itself and adopt a new business model that is appropriate for responsible missionary electrification. Such business model will take into consideration its complementary and support role in encouraging private sector participation in power generation and in institutionalizing the structural reforms to the ECs that are prescribed by Republic Act No. 10531 or Revised NEA Charter. Thus, SPUG's function on missionary electrification as a business with a social responsibility will be designed based on the following objectives:

a. Promote Efficiency of its Power Plants, and Transmission and Distribution Facilities

The unreliable power supply caused by aging generator sets and distribution lines affects entirely the true cost of generation in SIIGs. Based on the age profile NPC-SPUG plants, 56.4% of the currently operating generators are more than five years. Aging generator sets produce high fuel rate and in some areas, dilapidated distribution lines produces losses in power efficiency that can also affects the reliability of the power system. However, hauling of fuels for generators in far island grid and mountainous mini grids is one big task that's needed by power producers, certain changes in weather and peace & order situation may cause delays in fuel delivery in missionary areas.

The DOE has issued in September 2012 the "Transitory Technical Guidelines for Allowable Fuel Rates and Plant Use and Losses for National Power Corporation – Small Power Utilities Group (NPC-SPUG) Plants." SPUG is expected to adopt the guidelines and modify or further improve them in order that efficiency becomes inherent in its operations. Moreover, the guidelines provide an opportunity for SPUG to prove that it can viably provide power generation on a par with the private sector.

In support in promoting efficiency for power plants operating in SIIGs, the DOE will imposed a reportorial requirements for NPPs/QTPs and NPC-SPUG such as accomplishment reports, utilization reports and other statistical reports to be submitted to the DOE, these reports will be compliant with the requirements of the Philippine Small Grid Guidelines.

b. Bring the Operations of All Existing Service Areas to Commercial Viability.

SPUG has to develop a program that will bring the operations in all its existing service areas to commercial viability in order to rationalize the utilization and allocation of the subsidy among all the areas. Such program will include the reduction of subsidy for each area through an improvement in efficiency to reduce the true cost of generation and the gradual increase in the subsidized generation rate corresponding to the economic progress of the area.

2. Pursuance of the Private Sector Participation (PSP) Program

There are two (2) modes where the private sector may invest in Missionary Areas. There are through: (i) the New Private Power Provider (NPP) Program, where the private investor, selected through competitive means, shall eventually take over the generation function of NPC-SPUG; and (ii) the Alternative Service Provider or Qualified Third Party (QTP) Program, where Unviable Areas waived by the franchised DU, may be served by the QTP through small-scale generation and associated distribution facilities.

On the NPP Program, although there have been informal proposals to amend Department Circular No. 2004-01-001, a strong argument has yet to be recognized to necessitate the improvement of the prescription for the procedures for PSP in power generation. In the meantime, ECs are advised to conduct an honest self-assessment on their preparedness to implement the PSP Program with the option of the assistance of NEA and NPC-SPUG. NEA, in its review and analysis of the DDP of ECs, can assist in firming the information that will be used in the bidding of the power supply. On the other hand, NPC-SPUG can assist in least-cost generation planning in line with the rationalization of the missionary electrification subsidy from the UC-ME.

Moreover, the ECs with the assistance of NEA should also indicate their intention to pursue the PSP program and the timeline of its implementation so that NPC-SPUG can properly plan the addition, phase-out and redeployment of its generation capacity in SIIGs. The intention will be formalized in the DDP and in a contract with NPC-SPUG.

Within the planning horizon, the DOE will facilitate modification in the selection of the NPP in light of the development in the rural power sector. The NPP Program will be firmed after due consultations with the DUs in Missionary Areas, including NPC-SPUG, PSALM, ERC and other relevant agencies and units of the Government.

Meanwhile, for the QTP Program, to facilitate the electrification of waived unviable areas, the DOE will amend the DOE Circular on the QTP participation guidelines that will streamline the procedures in the pre-qualification of private firms to serve as QTPs. The proposed amendment shall also look into recent policy developments related to Republic Act No. 9513 or Renewable Energy Act of 2008 and NEA Reform Act of 2013. It is expected that amendments to the complementary rules on the QTP regulations by the ERC will follow.

There is also the need to review the subsidy approvals to arrest the unwarranted power consumptions by the rural households. Towards this end, the DOE shall enjoin NPC-SPUG to file application to ERC for the setting of the Subsidized Approved Retail Rate (SARR) which the consumers will pay in QTP service areas as provided for under the ERC Regulatory Rules for QTP.

The 2013 MEDP reaffirms the policy under EPIRA and its IRR that unviable areas which are waived by the ECs in spite of the instruments provided by the NEA Reform Act of 2013 shall be opened to QTPs. For this reason, the DOE shall pursue and enhance the promotion of the QTP program.

3. Rationalization of the Missionary Electrification Subsidy from Universal Charge

In line with the institutionalization of the efficient use of electricity and the preferential focus for the development of marginal rural/peasant communities,

there is a need to study the rationalization of the missionary electrification subsidy from the Universal Charge. Among the possible strategies include:

a. Graduation Policy. Consistent with Rule 13 of EPIRA-IRR, SPUG shall submit to DOE its assessment and prospects of all existing areas towards meeting commercial viability and recommendation for graduation from the UC-ME.

b. Tariff Differentiation among Customers and Missionary Areas. Recognizing different characteristics and load and service profile of existing missionary areas. This may involve the determination of a cap on electricity consumption that will qualify from a graduated subsidy. This is may be similar to the concept of lifeline rate on electricity consumption where large consumers like upmarket resorts and shopping malls in Palawan and Oriental Mindoro may have to pay different rates than residential consumers.

c. Review of the determination of the Subsidized Approved Retail Rate (SARR). The SARR should be set at appropriate level that will promote efficient use of electricity.

VII. BENEFITS TO HOST COMMUNITIES

Pursuant to *Section 66 of the EPIRA*, the obligations of generation companies and energy resource developers to communities hosting energy generation facilities and/or energy resource developers shall continue. The generation company and/or energy resource developer should set aside one centavo per kilowatt hour (PhP0.01/kWh) of the total electricity sales as financial benefits to host communities of such generation facility.

As of 31 August 2014, PSALM has made a total payment to DOE amounting to PhP186.00 million, broken down as follows:

Period Covered	Amount (in PhP)
2nd Quarter 2013	70,840.91
3rd Quarter 2013	64,953,680.65
4th Quarter 2013	54,654,629.37
1st Quarter 2014	66,324,848.84
Total	**186,003,999.77**

- Project Approval

From May 2014 – October 2014 , the DOE has approved a total amount of Php 24.4 Million for the energization of twenty five (25) Sitios in thirteen (13) Barangays within six (6) cities/municipalities and five hundred twenty seven (527) Households in the Provinces of Cebu.

In the same period, various non-electrification projects have also been approved. A total of Php 40.8 Million DL projects such as daycare centers, school classrooms, streetlights, water system, administrative building and road construction/concreting will be implemented in the Provinces of Ilocos Sur, Batangas, Quezon, Laguna, Zambales, Pangasinan, Leyte, Bukidnon and Lanao del Sur. While, Php 58.7 Million RWMHEE projects which will be implemented for medical supplies and equipment, ambulance, fire trucks, environment enhancement related projects, solid waste management and other infrastructure projects in the Provinces of Ilocos Sur, Benguet, Quezon, Batangas, Zambales, Leyte, Misamis Oriental, Negros Oriental, Bukidnon, Compostela Valley and Lanao del Sur.

Table 39. Project Approval (in PhP Million) May 2014-October 2014

Fund Source	No. of Approved Projects	Amount (PhP in Million)
Electrification Fund	25 Sitios in 13 Brgys within 6 city/municipalities and 527 HH in the Province of Cebu	24.43
Development and Livelihood Fund	27	40.85
Reforestation, Watershed Management, Health and/or Environment Enhancement Fund	24	58.74

- Fund Releases

To commence with the preparation and processing of fund release, the concerned LGU has to submit a complete bidding documents and bank certificate for an account/trust fund separately and exclusively opened for ER 1-94 projects. The scheme being applied for fund transfer is through a bank transaction.

Several releases were executed for the concerned DU's and Host LGU's for the implementation of their respective projects. Accordingly, the DOE was able to release a sum of Php 67.7 Million from which a little less than half of this amount was sourced out from EF at about Php 29.5 Million to energize nineteen (19) Barangays in the Province of Tawi-tawi, two (2) barangays for line enhancement and one (1) sitio for electrification in the City of Puerto Princesa, Palawan. Other releases such the amount of Php 22.2 Million was intended for the implementation of twenty seven (27) various DL projects and then the remaining amount of Php 16.0 Million was released for 24 RWMHEE projects.

Table 40. Fund Release (in PhP Million) May 2014-October 2014

Fund Source	No. of Projects	Amount (PhP in Million)
Electrification Fund	21 Barangays and 1 sito	29.47
Development and Livelihood Fund	25	22.24
Reforestation, Watershed Management, Health and/or Environment Enhancement Fund	18	15.99

Source: DOE

- Conduct of Information and Education Campaign (IEC)

Numerous IECs were conducted to re-orient local officials of the selected host communities in the the Provinces of Lanao del Sur, Nueva Vizcaya, Nueva Ecija, Iloilo, Ilocos Norte, and Benguet. It also intends to intensify the relationship of the Community Relations Officers (COMRELs) of the Generating Facility towards the local government to enhance the implementation of the E.R. 1-94 Program particularly in preparing, evaluating and endorsing projects that will assist the progression of the locality.

- Financial And Technical Audit

Consistent with the auditing rules and procedures under ER 1-94 program, the DOE-Internal Audit conducts a post-audit for the liquidation of project funds. In a given reporting period, the Department has audited and validated an amount of Php43.2 Million under EF, Php30.7 Million under DLF, and 18.0 Million under RWMHEEF.

Upon completion of projects, the DOE together with our partners, LGU, Generation Company and Electric Cooperatives, conduct a joint technical inspection and evaluation to assess the quality, value and impact of the projects to the community. Resulting from the project implementation was the inspection of one hundered sixty (160) Electrification projects and twenty four (24) non-electrification projects. (Selected photos of projects are shown in the next page).

In the event of unjustified disbursement of funds and non-completion or delay in the implementation of projects, the DOE has to defer the succeeding releases of project funds to the implementer. This is essential to ensure proper and efficient disbursement of funds.

Electrification Projects in the Provinces of Cagayan de Oro and Tawi-tawi

Project Title : Expansion of Distribution Line in 5 Barangays in the Municipality of Villanueva, Cagayan de Oro
Project Cost : Php 15,757,581.08
Fund Type : EF
DU : CEPALCO

Project Title : Installation of PV-SHS in 3 Brgys. In the Municipality of Mapun, Tawi-tawi
Project Cost : Php 4,749,486.06
Fund Type : EF
EC : CASELCO

DL and RWMHEE Projects in the Provinces of Quezon, Iligan City, Leyte and Lanao del Sur

Project Title : Development of Concrete Flood Crossing Structure in Brgy. Hiluctogan, Kananga, Leyte
Project Cost : Php 413,500.00
Fund Type : DLF
Power Plant : LEYTE UNIFIED GPPS

Project Title : Multi-purpose Pavement/ Road Concreteng in 4 Barangays in the Municipality of Kananga, Leyte
Project Cost : Php 2,937,210.00
Fund Type : DLF
Power Plant : LEYTE UNIFIED GPPS

Project Title : Acquisition of Mini Dump Truck, Brgy. Cristina, Baloi, Lanao del Sur
Project Cost : Php 150,450.00
Fund Type : RWMHEEF
Power Plant : Agus 4 HEP

Project Title : Acquisition of Fire Truck, Brgy. Ma. Cristina, Iligan City
Project Cost : Php 1,100,000.00
Fund Type : RWMHEEF
Power Plant : Agus 6 & 7 HEPs

Project Title : Purchase of Medical Equipment for QMC & 15 District Hospitals in the Province of Quezon
Project Cost : Php 12,125,364.96
Fund Type : RWMHEEF
Power Plant : Mauban CFTPP and Pagbilao CFTPP

ANNEXES

Annex 1. Transco Inspection Report Based on Concession Agreement as of 31 October 2014

No.	Inspection Report No.	Location	Name of Project/ Transmission Facilities	Inspection Date
LUZON				
1	NLOMD4-14-20	North Luzon District 4	Santiago, Gamu, Tuguegarao, Bayombong, Cauayan, Ilagan, Lagawe	May 5-9, 2014
2	STACC-14-21	Southern Tagalog	Laguna, Southern Tagalog ACC	May 20-21, 2014
	SL-MTDA-14-22	South Luzon	Laguna, Southern Tagalog MTD-A	May 22-23, 2014
3	SLRD1-14-23	South Luzon District 1	Dasmariñas, Ternate, Rosario, Zapote, Sucat, Binan, Calaca, Batangas	May 19-23, 2014
4	SLR-MB-14-24	South Luzon	Daraga, Albay MTD-B	June 3-4, 2014
	SLR-AC-14-25	South Luzon	Bicol Area Control Center	June 4-5, 2014
5	NLR-RS-14-27	North Luzon	Ampucao, Tuba, Angat & San Mateo Repeater Stations	June 2-6, 2014
6	SLR-RS-14-29	South Luzon	South Luzon Repeater Station	June 16-20, 2014
7	NLR-PR-14-06	North Luzon	Luzon S/S Expansion Project 2 (Mexico & Concepcion)	June 18-20, 2014
8	NLR-D7-14- 33	District 7 North Luzon	San Jose, Doña Imelda (Araneta), Tay-Tay (Dolores), Malaya, Quezon (Balintawak)	July 14-18, 2014
9	NCC-AC-14-34	H.O., Diliman	National Control Center - Diliman, Quezon City	July 21-25, 2014
10	SLR-PR-14-07	South Luzon	Luzon S/S Expansion Project 3 (Batangas & Bay Substation)	July 23-25, 2014
11	NLR-PR-14-08	North Luzon	Laoag and San Esteban Substations San Esteban-Laoag 230 kV T/L Project 2	Aug. 11-15, 2014
12	NLR-D3-14-42	North Luzon	San Manuel, Bolo, Labrador, Kadampat, Nagsaag, Mangaldan, Cuyapo	Sept. 1-5, 2014
13	NLR-D2-14-46	North Luzon District 2	La Trinidad, Ambuklao, Binga, Beckel, Itogon	Sept. 29 - Oct. 2, 2014
14	SLR-D3-14-49	South Luzon District 3	Naga City, Labo,Daraga, Tiwi	Oct. 13-17, 2014
VISAYAS				
1	VISD1-14-19	Visayas District 4	Ormoc City,Babatngon, Wright, Isabel, Tabango, Maasin, Bagolibas	May 5-9, 2014
2	VIS-D3-14-28	Visayas DISTRICT 3	Bacolod, Cadiz, Kabankalan, Mabinay, Amlan	June 16-20, 2014
3	VIS-D2-14-30	District 2 Visayas	Banilad, Mandaue, Mactan, Compostela, Quiot, Naga, BDPP, Ubay, Talisay	June 30-July 4, 2014
4	VIS-AC-14-31	Visayas	Negros- Area Control Center	July 14-15, 2014
	VIS-MB-14-32	Visayas	MTD-B Visayas, Bacolod City	July 16-17, 2014
5	VIS-RS-14-38	Visayas	Busay, Muagao & Compostela Repeater Stations	Aug. 25-28, 2014
6	VIS-PR-14-09	Visayas	Calong-Calong-Toledo-Colon T/L Project	Sept. 23-26, 2014
7	VIS-AC-14-47	Visayas	Bohol Area Control Center & Buenavista RS	Sept. 29- Oct. 2, 2014
8	VIS-AC-14-52	Visayas	Leyte ACC & Palompon RS	Oct. 27-31, 2014
MINDANAO				
1	MIN-PR-14-05	Mindanao	Mindanao S/S Reliability Project 1	May 19-23, 2014
2	MIND6-14-26	Mindanao District 6	Tacurong, Gen Santos City, Nuling	June 2-6, 2014
3	MIN-D2-14-35	Mindanao District 2	Lugait, Iligan(Overton), Balo-i(Abaga), Mindanao RCC, Metering Facilities and Microwave Station	Aug. 11-15, 2014
4	MIN-AC-14-36	Mindanao	Davao Area Control Center	Aug. 26-27, 2014
	MIN-MB-14-40	Mindanao	Davao MTD-B	Aug. 28-29, 2014
5	MIN-MA-14-37	Mindanao	Iligan MTD-A	Aug. 26-27, 2014
6	MIN-AC-14-39	Mindanao	Iligan Area Control Center	Aug. 27-28, 2014
7	MIN-D5-14-41	Mindanao	Davao City, Bunawan, Matanao, Maco,	Sept. 1-5, 2014

Annex 1. Transco Inspection Report Based on Concession Agreement as of 31 October 2014

No.	Inspection Report No.	Location	Name of Project/ Transmission Facilities	Inspection Date
			Nabunturan, Kidapawan	
8	MIN-AC-14-43	Mindanao	Gen. Santos Arean Control Center & Calumpang Repeater Station	Sept. 15-19, 2014
9	MIN-D1-14-44	Mindanao	Aurora, Sta. Clara, Sangali, Pitogo, Lunzuran	Sept. 15-19, 2014
10	MIN-D4-14-45	Mindanao	Butuan City, Bislig, San Francisco, Nasipit, Placer (Anislagan)	Sept. 15-19, 2014
11	MIN-AC-14-48	Mindanao	Zamboanga ACC, Tumaga RS, Sangali RS & Mercedes RS	Sept. 29- Oct. 2, 2014
12	MIN-D3-14-50	Mindanao District 3	Carmen, Tagoloan, Aplaya, Kibawe, Maramag	Oct. 13-17, 2014
13	MIN-AC-14-51	Mindanao	Butuan ACC & Carmen RS	Oct. 27-31, 2014
14	MIN-PR-14-10	Mindanao	Matanao-Kibawe 138 kV Transmission Project	Oct. 28-30, 2014

Source: Transco

Annex 2. Summary Inspection Report (PUC) as of 31 October 2014

No.	Observation Report No./ Inspection Dates / Area	Description of Observation (TransCo)	Action Plan / Remarks (NGCP)
		LUZON	
1	(NLR-PR-14-06) OR-P-14-0089 June 18-20, 2014 Concepcion & Mexico SS	Based from the agreed implementation schedule, Concepcion and Mexico S/S projects should be completed on March 13, 2013, however, said target completion date was not attained.	The current target completion of the Concepcion & Mexico S/S is in June 2014 and September 2014, respectively.
2	OR-P-14-0090 June 18-20, 2014	The contract expired on March 13, 2013, yet no Contract Time Extension has been approved.	The requested Contract Time Extension by the Contractor was denied by NGCP. The Contractor has been charged with Liquidated Damages.
3	OR-P-14-0091 June 18-20, 2014	The 1-100 MVA Power Transformer and including substation equipment at the Concepcion S/S were already installed, however, these are not yet energized.	Energization shall be undertaken after the completion of the confirmatory test of the installed equipment.
4	OR-P-14-0092 June 18-20, 2014	The Deluge Water Spray for the existing 100 MVA Power Transformer (T2) at Concepcion S/S is partially completed.	Completion will be done after the granting by the Systems Operation (SO) on the requested shutdown for T2.
5	OR-P-14-0093 June 18-20, 2014	The new 1-100 MVA Power Transformer at Mexico S/S has not yet installed.	Installation of the new 100 MVA P. T. shall start after the completion of the swinging of the Hermosa Lines 1 & 2.
6	OR-P-14-0094 June 18-20, 2014	One (1) of the 3 sets of the existing 69 kV Power Circuit Breaker (PCB) at Bay 55 in Mexico S/S has not yet decommissioned/dismantled.	Decommissioning/dismantling of the 69 kV PCB will start upon the granting of the requested shutdown.
7	OR-P-14-0095 June 18-20, 2014	One (1) of the 6 sets 69 kV Power Circuit Breaker (PCB) at Bay 55 in Mexico S/S has not yet installed.	Installation will commence after the dismantling of the existing PCB mentioned in Item No.14-0094
8	OR-P-14-0096 June 18-20, 2014	Three (3) out of the 6 sets of the existing Disconnect Switch (DS) at Bay 55 in Mexico S/S are yet to be decommissioned/dismantled.	Decommissioning/dismantling of the existing 3 sets of DS at Bay 55 will start upon the granting of the requested shutdown
9	OR-P-14-0097 June 18-20, 2014	Two (2) sets of new 69 kV Disconnect Switch (DS) at Bay 55 in Mexico S/S are not yet installed	Installation will commence after the dismantling of the existing PCB mentioned in Item No.14-0094.
10	OR-P-14-0098 June 18-20, 2014	The three (3) units of 230 kV Voltage Transformers (VT), at Bay 85, associated with Hermosa Line 2 at Mexico S/S are not yet decommissioned/ dismantled.	Decommissioning/dismantling will start during/after the swinging of Hermosa L1 & L2 to the new Bays.
11	OR-P-14-0099 June 18-20, 2014	Three (3) units of 230 kV Lightning Arrester (LA), at Bay 85, associated with Hermosa Line 2 at Mexico S/S are not yet decommissioned/ dismantled.	Decommissioning/dismantling will start during/after the swinging of Hermosa L1 & L2 to the new Bays.
12	OR-P-14-0100 June 18-20, 2014	One (1) unit of 230 kV Line Trap (LT), at Bay 85, associated with Hermosa Line 2 at Mexico S/S has not yet decommissioned/dismantled, re-installed and commissioned.	Decommissioning/dismantling, re-installation and commissioning of the existing 230 kV Line Trap shall start during the swinging of the existing Hermosa L1 & L2.
13	OR-P-14-0101 June 18-20, 2014	One (1) Steel Pole (type SPT2) at Mexico S/S is yet to be erected/installed.	The installation/erection of the SPT2 type Steel Pole shall be done during the swinging of the existing Hermosa L1 & L2.
14	OR-P-14-0102 June 18-20, 2014	Swinging of the existing Hermosa Lines 1 &2 (L1 from Bay 85 to 86 & L2 from Bay 86 to 88) at Mexico S/S has not yet started.	Swinging of the existing Hermosa Lines 1 & 2 will start after the completion of testing on the grounding.
15	(SLR-PR-14-07) OR-P-14-0103 July 23-25, 2014 Batangas & Bay SS	Based from the agreed implementation schedule, LSEP3 should be completed on March 13, 2013, however, the project was not yet completed as of inspection date.	Contractor to implement the catch-up program. For approval of updated implementation schedule.
16	OR-P-14-0104 July 23-25, 2014	The contract expired on March 13, 2013, yet no Contract Time Extension has been approved.	To impose LD on the absence of an approved Contract Time Extension.
17	OR-P-14-0105 July 23-25,2014	The remaining 1-300 MVA Power Transformer including the 230/69 kV substation equipment at	Expedite commissioning works for energization of 300 MVA Power

Annex 2. Summary Inspection Report (PUC) as of 31 October 2014

No.	Observation Report No./ Inspection Dates / Area	Description of Observation (TransCo)	Action Plan / Remarks (NGCP)
		the Batangas S/S were already installed but not yet energized.	Transformer.
18	OR-P-14-0106 July 23-25, 2014	1 set of the battery bank & 2 sets of Battery Chargers at Batangas S/S are not yet installed.	For installation.
19	OR-P-14-0107 July 23-25, 2014	Additional lighting for the 230/69 kV expansion yards at Batangas S/S were still un-delivered.	To follow-up the contractor to deliver and install said equipment.
20	OR-P-14-0108 July 23-25, 2014	The 230 kV Tubular Bus Extension of Bus B at Bay 86, Batangas S/S is still un-installed/un-mounted	For installation
21	OR-P-14-0109 July 23-25, 2014	The Existing Protection and Control System to conform with the new set-up of the substation at Batangas S/S has not yet modified.	For integration.
22	OR-P-14-0110 July 23-25, 2014	The Transformer Rail at Batangas S/S was not provided.	For deletion.
23	OR-P-14-0111 July 23-25, 2014	The Sanitary & Sewerage System at Batangas S/S is not provided.	For deletion. To be covered in the Project Scope Change Request for deletion.
24	OR-P-14-0112 July 23-25, 2014	The Transformer Explosion & Fire Protection System of each of the 2 X 300 MVA Transformer at Batangas S/S is not yet	For installation.
25	OR-P-14-0113 July 23-25, 2014	The Fireproof Blockage Materials are not yet installed at Batangas S/S.	For installation.
26	OR-P-14-0114 July 23-25, 2014	One (1) unit wall mounted Exhaust Fan is not yet installed at Batangas S/S.	Change in design from exhaust fan to ACU.
27	OR-P-14-0115 July 23-25, 2014	Twenty-six (26) concrete poles of different types for the 69 kV Feeder Line are still un- erected at Batangas S/S.	For installation.
28	OR-P-14-0116 July 23-25, 2014	The 1-100 MVA Power Transformer including the 230/69 Kv substation equipment at the Bay S/S were already installed but not yet energized.	For testing and commissioning.
29	OR-P-14-0117 July 23-25, 2014	The AC & DC Auxiliary Switchboard including subdistribution boards at Bay S/S were not provided.	To remind the contractor to expedite the delivery and installation.
30	OR-P-14-0118 July 23-25, 2014	The existing Station Service Transformer and Metalclad Switchgear at Bay S/S has not yet relocated to the new Auxiliary Building.	For relocation.
31	OR-P-14-0119 July 23-25, 2014	The existing Protection and Control System to conform with the new set-up of the substation at Bay S/S has not yet modified.	For integration.
32	OR-P-14-0120 July 23-25, 2014	The existing SCAS/MBSC System, complete with the required control modules, meters, devices, etc. at Bay S/S has not yet modified.	For installation and integration.
33	OR-P-14-0121 July 23-25, 2014	The Transformer Rail at Bay S/S was not provided.	For deletion. To be covered in the Project Scope Change Request for deletion.
34	OR-P-14-0122 July 23-25, 2014	The Drainage System at Bay S/S was not provided.	For deletion. To be covered in the Project Scope Change Request for deletion.
35	OR-P-14-0123 July 23-25, 2014	The Transformer Explosion & Fire Protection System for the 100 MVA Transformer at Bay S/S has not yet installed.	For installation.
36	OR-P-14-0124 July 23-25, 2014	The wall mounted Exhaust Fan for Auxiliary Bldg. was not provided.	For installation.
37	OR-P-14-0125 July 23-25, 2014	Environmental: No CNC (Certificate of Non-Coverage) for Bay & Batangas S/S Expansion Projects.	To follow-up CNC issuance from DENR.
38	OR-P-14-0126 July 23-25, 2014	Insufficient catch basin for T4 & T5 at Batangas S/S.	To refer to Engineering Design regarding the findings.
39	(NLR-PR-14-08) OR-P-14-0127 Aug. 11-15, 2014 Laoag & San Esteban SS	Based on the agreed implementation schedule, the original completion date of May 28, 2014 (contract expiry) for the Laoag S/S project was not attained and still no Contract Time Extension (CTE) has been approved.	The completion of the project was hampered by adverse weather condition, late issuance of permits to quarry and the problem of granting shutdown permits by the Systems Operations (SO). NGCP is already evaluating the Contract

Annex 2. Summary Inspection Report (PUC) as of 31 October 2014

No.	Observation Report No./ Inspection Dates / Area	Description of Observation (TransCo)	Action Plan / Remarks (NGCP)
			Time Extension (CTE) submitted by the Contractor.
40	OR-P-14-0128 Aug. 11-15, 2014	The following existing 115 kV substation equipment are yet to be decommissioned and dismantled at the Laoag S/S: 1 – Power Circuit Breaker 2 – Disconnect Switch 6 – Current Transformers 3 – Bus Support	The decommissioning and dismantling will start upon the issuance of the approved shutdown schedule
41	OR-P-14-0129 Aug. 11-15, 2014	One (1) set of 115 kV Power Circuit Breaker (PCB) is still uninstalled at the Laoag S/S.	The 115 kV PCB will be installed after the energization of Bay 61.
42	OR-P-14-0130 Aug. 11-15, 2014	The 2-13.8 kV feeder terminations for the 2-750 kVA Station Service Transformers presently connected at the tertiary winding of the existing 2-50 MVA P. T. are yet to be transferred to the newly installed Power Transformers at the Laoag S/S.	To be transferred later upon completion of energization. Subject for schedule with O&M.
43	OR-P-14-0131 Aug. 11-15, 2014	Based on the agreed implementation schedule, the original completion date of June 11, 2014 (contract expiry) for San Esteban S/S project was not attained and still no Contract Time Extension (CTE) has been approved.	The completion of the project was delayed due to problem of granting shutdown permits by the Systems Operations (SO). NGCP is already evaluating the Contract Time Extension (CTE) submitted by the Contractor.
44	OR-P-14-0132 Aug. 11-15, 2014	Two (2) sets of 230 kV Power Circuit Breakers at San Esteban S/S (Bay 81) are not yet installed.	Dismantling of the existing equipment shall be done first before installing the 4-PCBs
45	OR-P-14-0133 Aug. 11-15, 2014	Six (6) units of 230 kV Current Transformers at San Esteban S/S (Bay 81) are yet to be installed.	Dismantling of the existing equipment shall be done first before installing the 6-CTs.
46	OR-P-14-0134 Aug. 11-15, 2014	Three (3) units of 230 kV Voltage Transformers/Lightning Arrester at San Esteban S/S (for the 50 MVA PT01) are yet to be installed.	Dismantling of the existing equipment shall be done first before installing the 3-VT/LA.
47	OR-P-14-0135 Aug. 11-15, 2014	The new Cable Trench at San Esteban S/S (along Bay 81) was relocated from its original location as per approved plan.	The relocation was approved by O&M, North Luzon Projects Division and MTD-A. For submission of minutes of meeting.
48	OR-P-14-0136 Aug. 11-15, 2014	Additional columns for the Perimeter Fence were constructed at the San Esteban S/S.	The additional columns were constructed to support the newly erected perimeter fence from the volume of water coming from the mountain during rainy season. A Variation Order submitted by the Contractor for this particular item is already under evaluation.
49	OR-P-14-0137 Aug. 11-15, 2014	Environmental: Improper storage of empty drums at Laoag S/S.	For turn-over to PAMGS with proper labelling.
VISAYAS			
1	(VIS-PR-14-09) OR-P-14-0138 Sept. 23-26,2014	The requested copies of documents listed in the Notice of Inspection dated 03 September 2014 were not provided.	Visayas Project Division (VPD)-ECD shall provide the requested documents (in pdf format) through the Office of the QSMD.
2	OR-P-14-0139 Sept. 23-26,2014	The approved contract time extension (CTE) of January 21,2014 for the Calong-Calong-Colon T/L project was still not attained.	Contractor has pending CTE request based on submitted Work Interruption Records (WIR) and VPD shall facilitate its evaluation and endorsement for higher NGCP Mgmt. approval.
3	OR-P-14-0140 Sept. 23-26,2014	16 out of the 64 steel towers & diving bus for the Calong-Calong-Colon 138 kV T/L Project are yet to be erected.	All necessary Steel Tower materials available at site and erection works target for completion by Dec. 2014
4	OR-P-14-0141 Sept. 23-26,2014	Construction of the slope protections for the 14 tower sites of the Calong-Calong-Colon T/L Project are still unfinished	Contractor design, plans and drwgs. recently approved, but contractor yet to conduct its final topo survey works based on the final inventory of tower sites needing Slope Protection (SP) as initially identified.

Annex 2. Summary Inspection Report (PUC) as of 31 October 2014

No.	Observation Report No./ Inspection Dates / Area	Description of Observation (TransCo)	Action Plan / Remarks (NGCP)
5	OR-P-14-0142 Sept. 23-26,2014	The approved contract time extension of March 25, 2014 for the Calong-Calong & Colon S/S project was not attained.	Contractor has pending CTE request based on submitted Work Interruption Records (WIR) and VPD shall facilitate its evaluation and endorsement for higher NGCP Mgmt. approval.
6	OR-P-14-0143 Sept. 23-26,2014	1 out of the 5 sets - 138 kV PCBs in Calong-Calong S/S is not yet installed (for Bay 7-1).	The installation of the remaining 1 unit PCB (for Bay 7-1) and its associated equipment is tied-up with the availability of shutdown or after the new Bay 7-4 or 7-5 is energized.
7	OR-P-14-0144 Sept. 23-26,2014	2 out of the 10 sets - 138 kV DSs in Calong-Calong S/S are still for installation (Bay 7-1).	- do -
8	OR-P-14-0145 Sept. 23-26,2014	6 out of the 30 units - 138 kV CTs in Calong-Calong S/S are still for installation (Bay 7-1).	The installation of the remaining 1 unit PCB (for Bay 7-1) and its associated equipment is tied-up with the availability of shutdown or after the new Bay 7-4 or 7-5 is energized.
9	OR-P-14-0146 Sept. 23-26,2014	The sentry tower at the Calong-Calong S/S is not yet erected.	Required foundation completed, while erection of Sentry Tower to follow.
10	OR-P-14-0147 Sept. 23-26,2014	The substation equipment intended for Bay 7-09 were installed at Bay 7-07 at Colon S/S together with construction of new SS Eqpt. Foundation and Cable Trench. As for the replacement equipment, same is yet to be procured by NGCP to complete the required works for Bay 7-09.	All 138KV SS Eqpt. as earmarked for Bay 7-9 were installed to Bay 7-07 to accommodate the connection of VECO-AYA Line to Colon SS. Procurement for additional replacement equipment to be facilitated by NGCP.
		MINDANAO	
1	(MIN-PR-14-05) OR-P-14-0060 May 19-22,2014	Based from the agreed implementation schedule, the project should be completed on February 26, 2014 (original contract expiry), however, said target completion date was not attained	The non-attainment of the original completion date was attributed mainly to the delayed delivery of equipment and materials. The non–completion of the Control House Building, etc. under the Aurora-Polanco Project also affected the completion of the Aurora S/S. A Contract Time Extension (CTE) was already submitted for approval.
2	OR-P-14-0061 May 19-22,2014	Except for the 1-100 MVA Power Transformer at Aurora S/S, no other substation equipment has been installed.	Foundation works for the substation equipment are already ongoing.
3	OR-P-14-0062 May 19-22,2014	12 units of 138 kV Current Transformer intended for the Aurora Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port.
4	OR-P-14-0063 May 19-22,2014	3 units of 138 kV Voltage Transformer intended for the Aurora Substation are still undelivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port.
5	OR-P-14-0064 May 19-22,2014	6 sets of 69 kV Power Circuit Breakers for the Aurora Substation are still undelivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port
6	OR-P-14-0065 May 19-22,2014	30 units of 69 kV Current Transformer intended for the Aurora Substation are still undelivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port.
7	OR-P-14-0066 May 19-22,2014	21 units of 69 kV Voltage Transformer intended for the Aurora Substation are still undelivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port

Annex 2. Summary Inspection Report (PUC) as of 31 October 2014

No.	Observation Report No./ Inspection Dates / Area	Description of Observation (TransCo)	Action Plan / Remarks (NGCP)
8	OR-P-14-0067 May 19-22,2014	The Station AC&DC Auxiliary Distribution Boards (230 VAC &125 VDC Distribution Boards) for the Aurora Substation are still undelivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port.
9	OR-P-14-0068 May 19-22,2014	Outdoor Lighting System for the 69 kV Switchyard at Aurora Substation has not yet delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port.
10	OR-P-14-0069 May 19-22,2014	The Cable Trays (4 layers) for the Control House Building Expansion (various types) at Aurora Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor from the port.
11	OR-P-14-0070 May 19-22,2014	The temporary raising of 4-69 kV feeders at Aurora Substation to allow the dismantling of existing 69 kV feeders take-off structures & the erection of new 69 kV gantry structures has not yet started.	This activity will start upon the delivery of the steel poles needed to raise the feeders.
12	OR-P-14-0071 May 19-22,2014	The existing 69 kV & 138 kV substation equipment &supporting structures as stated in item A.3.1 Annex A of the contract at Aurora Substation has not yet decommissioned/dismantled/ sorted/packed/crated/hauled.	This activity needs the completion of item OP-P-14-0070 for the preparation of the required shutdown scheme.
13	OR-P-14-0072 May 19-22,2014	The relocation/installation, testing & commissioning of the 1-69 kV PCB & 9-69 kV Surge Arresters (SA) at Aurora Substation have not yet started.	This activity needs the completion of item OP-P-14-0070 for the preparation of the required shutdown scheme.
14	OR-P-14-0073 May 19-22,2014	The demolition, reconstruction, and improvement of the existing warehouse which will be affected by the expansion of the switchyard at Aurora Substation are yet to start.	This activity still needs the completion of item OP-P-14-0070
15	OR-P-14-0074 May 19-22,2014	The Substation Protection System, Network Disturbance Monitoring Equipment (NDME) and Protection Management System (PMS), including their Spare Parts & Tools for Aurora Substation are not yet delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
16	OR-P-14-0075 May 19-22,2014	The expansion of the two-storey Control House Building including the civil, structural, sanitary & electrical components at Aurora Substation is not yet completed.	The expansion works is dependent from the completion of the Control House Building which is under the Aurora-Polanco Project.
17	OR-P-14-0076 May 19-22,2014	12 units of 69 kV Current Transformer intended for the Jasaan Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
18	OR-P-14-0077 May 19-22,2014	12 units of 69 kV Voltage Transformer intended for the Jasaan Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
19	OR-P-14-0078 May 19-22,2014	3 units of 60 kV Surge Arrester intended for the Jasaan Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
20	OR-P-14-0079 May 19-22,2014	Station AC&DC Auxiliary Distribution Boards (230 VAC & 125 VDC Distribution Boards) for Jasaan Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.

Annex 2. Summary Inspection Report (PUC) as of 31 October 2014

No.	Observation Report No./ Inspection Dates / Area	Description of Observation (TransCo)	Action Plan / Remarks (NGCP)
21	OR-P-14-0080 May 19-22,2014	Outdoor Lighting System for the 69 kV Switchyard at Jassan Substation has not yet delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
22	OR-P-14-0081 May 19-22,2014	The 69 kV line at Jasaan S/S serving MORESCO is yet to be transferred to its new termination point.	The swinging/transferring of the existing 69 kV line needs system shutdown to be scheduled by SO.
23	OR-P-14-0082 May 19-22,2014	The Substation Protection System, Network Disturbance Monitoring Equipment (NDME) and Marshalling Panels) for Jasaan Substation are not yet delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
24	OR-P-14-0083 May 19-22,2014	Construction of Gantry at Jasaan S/S is yet to be completed.	The construction of the gantry needs system shutdown to be scheduled by SO.
25	OR-P-14-0084 May 19-22,2014	6 units of 138 kV Current Transformer under the Lugait Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
26	OR-P-14-0085 May 19-22,2014	3 units of 138 kV Voltage Transformer under the Lugait Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
27	OR-P-14-0086 May 19-22,2014	6 units of 69 kV Current Transformer under the Lugait Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
28	OR-P-14-0087 May 19-22,2014	6 units of 69 kV Voltage Transformer under the Lugait Substation are yet to be delivered.	The items are already at the Port. Delivery at site is pending thesubmission of the required documents by the contractor for the release of the equipment from the port.
29	OR-P-14-0088 May 19-22,2014	The substation Protection System and Breaker Failure Protection System with auto re-closer under the Lugait S/S are still for delivery.	The items are already at the Port. Delivery at site is pending the submission of the required documents by the contractor for the release of the equipment from the port.
30	(MIN-PR-14-10) OR-P-14-0148 Oct. 28-30, 2014 T/L	The contract for the construction of the Maramag-Kibawe 138 kV T/L Project expired on March 29, 2014 and no approved Contract Time Extension (CTE) was issued.	NGCP will not issue a CTE to the contractor. The contractor will be charged with Liquidated Damages (LD).
31	OR-P-14-0149 Oct. 28-30, 2014 T/L	The Maramag-Kibawe 138 kV T/L Project was already completed but not yet energized.	Energization of the line is dependent on the completion of the associated substations.
32	OR-P-14-0150 Oct. 28-30, 2014 S/S	The requested copies of project documents for the Maramag and Kibawe substations stated in the Notice of Inspection dated 13 October 2014 were not yet provided.	To be submitted to TransCo.
33	OR-P-14-0151 Oct. 28-30, 2014 S/S	The contract for the expansion of Maramag & Kibawe S/S Project expired on February 26, 2014 and no approved Contract Time Extension (CTE) was issued.	The contractor will be charged with Liquidated Damages (LD).
34	OR-P-14-0152 Oct. 28-30, 2014 S/S	The 6-138 kV Current Transformer (CT) at Maramag S/S are still not installed at Bay 72.	Steel supports were already completed. Waiting for the delivery of the 138 kV CTs at site.
35	OR-P-14-0153	The 6-69 kV Current Transformers (CT) at	Waiting for the delivery of the new

Annex 2. Summary Inspection Report (PUC) as of 31 October 2014

No.	Observation Report No./ Inspection Dates / Area	Description of Observation (TransCo)	Action Plan / Remarks (NGCP)
	Oct. 28-30, 2014 S/S	Maramag S/S were not yet dismantled and replaced.	69 kV CTs at site.
36	OR-P-14-0154 Oct. 28-30, 2014 S/S	The 12-138 kV Current Transformer (CT) at Kibawe S/S are still not installed at Bay 77.	Steel supports were already completed. Waiting for the delivery of the 138 kV CTs at site.
37	OR-P-14-0155 Oct. 28-30, 2014 S/S	The 3-138 kV Voltage Transformer (VT) at Kibawe S/S are still not installed at Bay 77.	Steel supports were already completed. Waiting for the delivery of the 138 kV VTs at site.
38	OR-P-14-0156 Oct. 28-30, 2014 S/S	Gravel surfacing at the Kibawe S/S is still not completed at Bay 77.	For gravel surfacing.

Source: TransCo

Annex 3. NGCP Related Petitions to ERC as of 31 October 2014

<table>
<tr><th>ERC DECISION/
CASE NO./
DATE OF FILING</th><th>NATURE OF PETITION</th><th>GROUNDS FOR FILING</th><th>STATUS</th></tr>
<tr><td>ERC case 2014 -155 RC
October 17, 2014</td><td>In the Matter of the Application for the Approval of the Maximum Allowable Revenue for the
Calendar Year 2015 and the Net Performance Incentive for Calendar Year 2014 Under the Rules for Setting the
Transmission Wheeling Rates, with Prayer for Provisional Authority</td><td>• Immediately GRANT provisionalauthority to implement thecollection of the MAR2015 in theamount of PhP43,078.95Mn, thePIS2014 of PhP923.08Mn, and thecorresponding System Operatorand Metering Service ProviderCharges beginning the billingperiod of 26 December 2014 to 25January 2015;
• APPROVE, after notice andhearing, the collection of theMAR2015 in the amount ofPhP43,078.95Mn, the PIS2014 ofPhP923.08Mn and thecorresponding System Operatorand Metering Service ProviderCharges;
• APPROVE the fifty percent (50%)of PhP15.08Mn or the equivalentof PhP7.54Mn as RBRt from colocationand rental of equipment;</td><td>• Awaiting ERC Order/ Notice of Hearing</td></tr>
<tr><td>ERC case 2014 -134 RC
September 10, 2014</td><td>In the Matter of the application for the approval of the Taguig Extra High-Voltage substation project, with prayer for the issuance of a Provisional Authority</td><td>• Immediately ISSUE an Order provisionally approving the implementation of the Taguig EHV Substation project; and
• APPROVE, after notice and hearing, the Application for the implementation of the Taguig EHV Substation Project.</td><td>• Awaiting ERC Order/ Notice of Hearing</td></tr>
<tr><td>ERC case 2014 -127 RC
August 29, 2014</td><td>In the Matter of the Application of the National
Grid Corporation of the Philippines for the Approval of Force Majeure (FM) Event regulated FMpass through for sabotage incidents and landslide due to continuous heavy rains in Mindanao and Typhoons Santi and Vinta in Luzon in accordance with the Rules for Setting Transmission Wheeling Rates, with prayer for Provisional Authority.</td><td>• GRANT Provisional Approval to implement and bill the FM Pass-Through Amounts to Luzon and Mindanao customers starting October 2014 billing month to December 2015 billing month or until such time that the amount incurred is fully recovered;
• DECLARE the sabotage incidents and landslide due to continuous heavy rains in Mindanao, and Typhoons Santi and Vinta in Luzon as Force Majeure Events (FME);
• APPROVE the CAPEX incurred for the restoration, rehabilitation and repair of the damaged transmission assets and other related facilities due to the sabotage incidents and landslide due to continuous heavy rains in Mindanao, and Typhoons Santi and Vinta in Luzon as FMEs;
• APPROVE the proposed pass-through amount representing return on capital, return of capital and taxes associated with emergency responses and the repair and rehabilitation of facilities damaged due to the said events, as shown in the table below:
<table><tr><th>Grid</th><th>2014</th><th>2015</th></tr><tr><td>Luzon</td><td>0.0338</td><td>0.0083</td></tr><tr><td>Mindanao</td><td>0.2830</td><td>0.0703</td></tr></table>• APPROVE and ALLOW the recovery of the Net Fixed Asset Value of the transmission assets and other related facilities damaged by</td><td>• Awaiting ERC Order/ Notice of Hearing</td></tr>
</table>

Annex 3. NGCP Related Petitions to ERC as of 31 October 2014

ERC DECISION/ CASE NO./ DATE OF FILING	NATURE OF PETITION	GROUNDS FOR FILING	STATUS
		the sabotage incidents and landslide due to continuous heavy rains in Mindanao, and Typhoon Santi and Vinta in Luzon, as FMEs during the fourth (4th) Regulatory Period given that the said transmission assets and other related facilities have not been damaged or destroyed by said FMEs; • EXCLUDE the proposed Pass-Through Amount from the side constraint calculation.	
ERC case 2014-060 RC May 13, 2014	In the Matter of theApplication for the Approval of the Malita-Matanao 230 kV Transmission Line Project, with Prayer for the Issuance of a Provisional Authority.	• ISSUE, immediately upon filing of the Application, a Provisional Approval for the implementation of the Malita – Matanao 230 kV Transmission Line Project; and • APPROVE, After Notice and hearing, the application for the implementation of the Malita – Matanao 230 kV Transmission Line Project and render judgment making provisional approval permanent.	• On May 26, 2014, ERC issued an order setting the Jurisdictional hearing, expository presentation, pre-trial conference and evidentiary hearing on July 8, 2014 (Tuesday) at ten o' clock in the morning (10:00 A.M.) at the ERC Hearing Room, 15th Floor, Pacific Center Building, San Miguel Avenue, Pasig City. • On June 3, 2014, ERC posted on its website an order dated May 26, 2014, setting the Jurisdictional hearing, expository presentation, pre-trial conference and evidentiary hearing on July 8, 2014 (Tuesday) at ten o' clock in the morning (10:00 A.M.) at the ERC Hearing Room, 15th Floor, Pacific Center Building, San Miguel Avenue, Pasig City. • On July 8, 2014, the jurisdictional, expository, pre-trial and evidentiary hearing were conducted. NGCP was directed to file its Formal Offer of Evidence within ten (10) days.
ERC case 2014-057 RC May 9, 2014	In the Matter of theApplication for the Approval of the Bataan-Cavite/Metro Manila TransmissionLine Project (Phase 1), with Prayer for Provisional Authority.	• Immediately ISSUE an Order provisionally approving the implementation of the Bataan-Cavite/Metro Manila Transmission Line (Phase 1) project pending final approval; and • APPROVE, After Notice and hearing, the application for the implementation of the Bataan-Cavite/Metro Manila Transmission line (Phase 1) Project.	• On May 19, 2014, ERC issued an order setting the Jurisdictional hearing, expository presentation, pre-trial conference and evidentiary hearing on July 1, 2014 (Tuesday) at ten o' clock in the morning (10:00 A.M.) at the ERC Hearing Room, 15th Floor, Pacific Center Building, San Miguel Avenue, Pasig City. • On July 1 & 17, 2014, jurisdictional

Annex 3. NGCP Related Petitions to ERC as of 31 October 2014

ERC DECISION/ CASE NO./ DATE OF FILING	NATURE OF PETITION	GROUNDS FOR FILING	STATUS
			hearing, expository presentation, pre-trial conference and evidentiary hearing were conducted and NGCP was directed to submit its Formal Offer of Evidence within 15 days.
ERC case 2014-024 RC March 20, 2014	In the Matter of theApplication for the Approval of the Eastern Panay Transmission Line Project, with Prayer for Provisional Authority	• Immediately ISSUE an Order Provisionally Approving the implementation ofthe Eastern Panay Transmission Line Backbone; and • APPROVE, After Notice and hearing, the application for the implementation of the Eastern Panay Transmission Line Backbone.	• On May 27, 2014, the jurisdictional, expository, pre-trial and evidentiary hearingwere conducted. NGCP was directed to file its Formal offer of Evidence withinfifteen (15) days.
ERC case 2014-017 RC February 25, 2014	In the Matter of theApplication for the Pasay 230 kV Substation Project, with Prayer for theIssuance of a Provisional Authority.	• ISSUE, immediately upon filing of the Application, a Provisional Approvalfor the implementation of the Pasay 230 kV Substation Project; and • APPROVE, after Notice and hearing, the application for theimplementation of the Pasay 230 kV Substation Project and renderjudgment making provisional approval permanent.	• On May 8, 2014, the ERC issued an order setting the Jurisdictional hearing, expositorypresentation, pre-trial conference and evidentiary hearing on June 5, 2014(Thursday) at ten o' clock in the morning (10:00 A.M.) at the ERC HearingRoom, 15th Floor, Pacific Center Building, San Miguel Avenue, Pasig City. • On June 5, 2014, the jurisdictional & pre-trial were done while the expository and evidentiary hearing was reset on July 3, 2014. • On July 3, 2014, evidentiaryhearing was conductedand terminated. NGCPwas directed to submitits Formal Offer ofEvidence within 15 days.
ERC case 2014-016 RC February 25, 2014	In the Matter of theApplication for the Approval of the Hermosa – Floridablanca 69 kV Line Project, with Prayer for the Issuance of a Provisional Authority.	• Immediately ISSUE an Order Provisionally Approving the implementation ofthe Hermosa - Floridablanca 69 kV Line Project; and • APPROVE, after Notice and hearing, the application for theimplementation of the Hermosa - Floridablanca 69 kV Line Project.	• On May 28, 2014, the jurisdictional, expository, pre-trial and evidentiary hearingwere conducted. NGCP was directed to file its Formal offer of Evidence withinTwenty (20) days.
ERC Case 2014-015 February 25, 2014	In the Matter of theApplication for the Approval of the La Trinidad – Calot 69 kV Line Project, withPrayer for the Issuance of a Provisional Authority.	• ISSUE, immediately upon filing of the application, a provisional approvalfor the implementation of the La Trinidad – Calot 69 kV Line Project; and APPROVE, After Notice and hearing, the application for theimplementation of the La Trinidad – Calot 69 kV Line Project and renderjudgment making Provisional Approval permanent.	• On May 22, 2014, the jurisdictional, expository, pre-trial and evidentiary hearing were conducted. NGCP was directed to file its Formal Offer of Evidence within twenty (20) days.

Annex 3. NGCP Related Petitions to ERC as of 31 October 2014

<table>
<tr><th>ERC DECISION/
CASE NO./
DATE OF FILING</th><th>NATURE OF PETITION</th><th>GROUNDS FOR FILING</th><th>STATUS</th></tr>
<tr><td>ERC Case 2014-014 RC
February 25, 2014</td><td>In the Matter of theApplication for the Approval of the Submarine Fiber Optic Cable: Sorsogon-Samar Interconnection Project, with Prayer for Provisional Authority.</td><td>• Immediately ISSUE an Order provisionally approving the implementationof the Submarine Fiber Optic Cable: Sorsogon-Samar InterconnectionProject pending final approval; and
• APPROVE, After Notice and hearing, the application for theimplementation of the Submarine Fiber Optic Cable: Sorsogon-SamarInterconnection Project.</td><td>• On May 21, 2014, the jurisdictional, expository, pre-trial and evidentiary hearingwere conducted. NGCP was directed to file its Formal offer of Evidence withinTwenty (20) days.</td></tr>
<tr><td>ERC Case 2013-
202 RC
October 17, 2013</td><td>In the Matter of the Application for the Approval of the MaximumAllowableRevenue for the Calendar Year 2014 and the Net Performance Incentive for 2013 Under the Rules for Setting the Transmission Wheeling Rates, with Prayer for Provisional Authority.</td><td>• Immediately GRANT provisionalauthority to implement thecollection of the MAR2014 in theamount of PhP42,506.87Mn and thePIS 2013 of PhP754.69Mn and theSystem Operator and MeteringService Provider Charges beginningthe billing period of 26 December2013 to 25 January 2014.
• APPROVE the authority to collect theMAR 2014 in the amount ofPhP42,506.87Mn and the PIS2013 ofPhP754.69Mn and the SystemOperator and Metering ServiceProvider Charges.
• APPROVE the fifty percent (50%) ofPhP24.30Mn or the equivalent ofPhP12.15Mn as RBRt from colocationand rental of equipment.
• DEFER the setting of the ASAIparameters until the end of the Third(3rd) Regulatory Period.</td><td>• On September 12, 2014, the NGCP filed its FOE.</td></tr>
<tr><td>ERC Case 2013-007 RC
January 17, 2013</td><td>In the Matter of the Application for Approval of Connection Charges and Residual Subtransmission
charges for calendar year 2013 on subtransmission assets of the National Grid Corporation of the Philippines, with prayer for provisional authority</td><td>• ISSUE a Provisional Authority to implement and commence the billing and collection of the proposed CY 2013 CC/RSTC beginning the billing month of January 2013 as follows:
<table><tr><th></th><th>CC</th><th>RSTC</th><th>Total (Monthly)</th><th>Total (Annual)</th></tr><tr><td>Luzon</td><td>88,361,700.72</td><td>25,942,325.06</td><td>114,304,025.78</td><td>1,371,648,309.40</td></tr><tr><td>Visa-yas</td><td>41,602,314.64</td><td>12,730,257.54</td><td>54,332,572.19</td><td>651,990,866.22</td></tr><tr><td>Minda-nao</td><td>41,848,823.39</td><td>31,092,269.21</td><td>72,941,092.60</td><td>875,293,111.20</td></tr><tr><td>Total</td><td>171,812,838.76</td><td>69,764,851.81</td><td>241,577,690.57</td><td>2,898,932,286.82</td></tr></table>• APPROVE the recovery of the computed CY 2013 CC/RSTC provided inthis application to all Transmission Customers;
• ALLOW NGCP to bill and collect the following through the CC/RSTC; and
1. Deferred CC/RSTC for disposed subtransmission assets;
2. Uncollected rehabilitation and improvement costs;
3. CC/RSTC for disposed subtransmission assets with approvedcontracts to sell;</td><td>• On May 13, 2014, the evidentiary hearing was continued and the commissiondirect NGCP to submit the recomputed charges and provide intervener SNAPthe Single Line Diagram where it is connected. The commission gives theinterveners fifteen (15) days to file written interrogatories upon receipt ofNGCP's submissions.</td></tr>
</table>

Annex 3. NGCP Related Petitions to ERC as of 31 October 2014

ERC DECISION/ CASE NO./ DATE OF FILING	NATURE OF PETITION	GROUNDS FOR FILING	STATUS
		4. Other uncollected CC/RSTC resulting from adjustment of the CY2009 charges. • ALLOW NGCP to impose a 3% Franchise Tax on CC/RSTC to be reflected as a separate line item in the Power Bill.	
ERC Case No. 2011-178-RC December 20, 2011	In the Matter of the Application for the Approval of Connection Charges and ResidualSubtranmission Charges for Calendar Years 2011 and 2012 on the ExcludedServices Covering the Existing Subtransmission Assets of the National Grid Corporation of the Philippines (NGCP), with Prayer for Provisional Authority Rates.	• ISSUE a Provisional Authority to implement and commence the billing and collection of the proposed CY 2011 and 2012 Connection Charges and Residual Subtransmission Charges beginning the billing period of 26 December 2011 - 25 January 2012 and 26 December 2012 – 25 January 2013; • After due notice and hearing, APPROVE the recovery of the computed CY 2011 and 2012 Connection Charges and Residual Subtransmission Charges provided in this application to all customers	• AwaitingERC Resolution.

Source: Transco

Annex 4. WESM Metered Quantity, Spot Quantity, Bilateral Quantity (MWh)

Billing Month		Metered Quantity (Load), MWh	Spot Quantity (Load), MWh	%	Bilateral Contract Quantity, MWh	%
1	Jul-2006	3,094,164.95	1,355,434.37	44%	1,738,730.58	56%
2	Aug-2006	3,147,800.36	1,159,428.23	37%	1,988,372.13	63%
3	Sep-2006	3,314,855.13	1,291,334.84	39%	2,023,520.30	61%
4	Oct-2006	2,873,285.25	1,224,467.60	43%	1,648,817.65	57%
5	Nov-2006	3,234,958.03	1,069,288.10	33%	2,165,669.93	67%
6	Dec-2006	2,972,091.65	519,152.06	17%	2,452,939.59	83%
7	Jan-2007	3,035,805.04	589,925.05	19%	2,445,879.99	81%
8	Feb-2007	3,102,610.89	510,281.30	16%	2,592,329.59	84%
9	Mar-2007	2,980,658.77	536,155.65	18%	2,444,503.12	82%
10	Apr-2007	3,407,504.68	698,602.96	21%	2,708,901.72	79%
11	May-2007	3,460,944.49	503,878.03	15%	2,957,066.46	85%
12	Jun-2007	3,561,655.99	805,535.91	23%	2,756,120.08	77%
13	Jul-2007	3,408,973.90	531,237.60	16%	2,877,736.29	84%
14	Aug-2007	3,286,050.22	460,225.65	14%	2,825,824.57	86%
15	Sep-2007	3,362,494.13	358,578.07	11%	3,003,916.06	89%
16	Oct-2007	3,229,031.96	247,585.19	8%	2,981,446.77	92%
17	Nov-2007	3,204,655.78	346,596.90	11%	2,858,058.88	89%
18	Dec-2007	3,083,441.24	371,343.26	12%	2,712,097.98	88%
19	Jan-2008	3,131,009.80	411,372.54	13%	2,719,637.26	87%
20	Feb-2008	3,212,635.82	454,532.74	14%	2,758,103.08	86%
21	Mar-2008	3,041,008.30	354,398.37	12%	2,686,609.93	88%
22	Apr-2008	3,634,855.57	634,329.07	17%	3,000,526.50	83%
23	May-2008	3,323,367.13	356,234.23	11%	2,967,132.90	89%
24	Jun-2008	3,538,106.32	400,132.11	11%	3,137,974.21	89%
25	Jul-2008	3,435,104.78	408,863.87	12%	3,026,240.91	88%
26	Aug-2008	3,399,912.16	372,803.00	11%	3,027,109.16	89%
27	Sep-2008	3,530,050.75	511,447.58	14%	3,018,603.17	86%
28	Oct-2008	3,421,671.57	466,154.42	13.6%	2,955,517.15	86%
29	Nov-2008	3,447,266.38	535,759.02	15.5%	2,911,507.37	84%
30	Dec-2008	3,151,245.74	545,175.13	17.3%	2,606,070.61	83%
31	Jan-2009	2,906,720.56	604,622.65	20.8%	2,302,097.92	79%
32	Feb-2009	3,358,810.66	766,465.14	22.8%	2,592,345.53	77%

Annex 4. WESM Metered Quantity, Spot Quantity, Bilateral Quantity (MWh)

Billing Month		Metered Quantity (Load), MWh	Spot Quantity (Load), MWh	%	Bilateral Contract Quantity, MWh	%
33	Mar-2009	3,222,969.29	537,701.69	16.7%	2,685,267.60	83%
34	Apr-2009	3,503,547.55	414,910.72	11.8%	3,088,636.83	88%
35	May-2009	3,463,438.29	516,030.34	14.9%	2,947,407.95	85%
36	Jun-2009	3,608,313.89	475,456.08	13.2%	3,132,857.82	87%
37	Jul-2009	3,538,571.31	357,675.26	10.1%	3,180,896.05	90%
38	Aug-2009	3,671,459.51	586,189.83	16.0%	3,085,269.69	84%
39	Sep-2009	3,652,903.81	486,078.85	13.3%	3,166,824.96	87%
40	Oct-2009	3,347,101.84	512,979.44	15.3%	2,834,122.40	85%
41	Nov-2009	3,575,986.76	474,059.82	13.3%	3,101,926.94	87%
42	Dec-2009	3,381,576.00	447,970.83	13.2%	2,933,605.16	87%
43	Jan-2010	3,391,691.08	464,968.76	13.7%	2,926,722.32	86%
44	Feb-2010	3,709,258.54	678,908.20	18.3%	3,030,350.34	82%
45	Mar-2010	3,496,870.27	479,469.01	13.7%	3,017,401.26	86%
46	Apr-2010	3,785,877.48	587,784.31	15.5%	3,198,093.17	84%
47	May-2010	4,025,236.25	632,741.76	15.7%	3,392,494.49	84%
48	Jun-2010	4,120,067.20	711,151.61	17.3%	3,408,915.59	83%
49	Jul-2010	3,705,460.47	594,644.27	16.0%	3,110,816.20	84%
50	Aug-2010	3,900,844.43	462,747.56	11.9%	3,438,096.86	88%
51	Sep-2010	3,893,171.32	321,815.88	8.3%	3,571,355.44	92%
52	Oct-2010	3,721,843.57	363,704.17	9.8%	3,358,139.40	90%
53	Nov-2010	3,791,123.99	448,742.73	11.8%	3,342,381.26	88%
54	Dec-2010	3,618,918.64	403,623.82	11.2%	3,215,294.82	89%
55	Jan-2011	4,065,400.56	272,481.78	6.7%	3,792,918.77	93%
56	Feb-2011	4,405,384.21	470,203.49	10.7%	3,935,180.72	89%
57	Mar-2011	4,072,738.35	263,789.55	6.5%	3,808,948.79	94%
58	Apr-2011	4,313,514.71	202,777.98	5%	4,110,736.73	95%
59	May-2011	4,675,217.40	399,466.39	9%	4,275,751.00	91%
60	Jun-2011	4,665,692.14	453,082.12	10%	4,212,610.01	90%
61	Jul-2011	4,496,424.04	358,118.31	8%	4,138,305.73	92%
62	Aug-2011	4,588,527.67	280,049.63	6%	4,308,478.03	94%

Annex 4. WESM Metered Quantity, Spot Quantity, Bilateral Quantity (MWh)

Billing Month		Metered Quantity (Load), MWh	Spot Quantity (Load), MWh	%	Bilateral Contract Quantity, MWh	%
63	Sep-2011	4,591,257.49	364,979.67	8%	4,226,277.81	92%
64	Oct-2011	4,359,048.50	435,802.47	10%	3,923,246.03	90%
65	Nov-2011	4,597,790.37	460,942.12	10%	4,136,848.25	90%
66	Dec-2011	4,386,874.52	524,084.49	12%	3,862,790.03	88%
67	Jan-2012	4,335,207.47	261,447.91	6%	4,073,759.57	94%
68	Feb-2012	4,519,990.57	251,555.63	6%	4,268,434.94	94%
69	Mar-2012	4,416,326.59	389,036.20	9%	4,027,290.40	91%
70	Apr-2012	4,724,661.49	303,929.41	6%	4,420,732.08	94%
71	May-2012	4,980,881.89	373,513.98	7%	4,607,367.91	93%
72	Jun-2012	5,080,154.44	513,897.32	10%	4,566,257.12	90%
73	Jul-2012	4,756,271.85	686,471.55	14%	4,069,800.30	86%
74	Aug-2012	4,502,480.50	288,702.16	6%	4,213,766.33	94%
75	Sep-2012	4,745,836.69	391,723.48	8%	4,354,113.21	92%
76	Oct-2012	4,656,469.61	382,553.20	8%	4,273,916.41	92%
77	Nov-2012	4,744,798.66	405,825.13	9%	4,338,973.53	91%
78	Dec-2012	4,607,806.64	425,066.37	9%	4,182,740.26	91%
79	Jan-2013	4,414,305.72	389,527.57	9%	4,024,778.15	91%
80	Feb-2013	4,621,906.41	436,075.11	9%	4,185,831.30	91%
81	Mar-2013	4,440,321.96	489,406.63	11%	3,950,915.33	89%
82	Apr-2013	5,165,108.01	690,301.91	13%	4,474,806.09	87%
83	May-13	5,164,987.79	649,414.99	13%	4,515,572.80	87%
84	June-13	5,216,803.55	462,431.41	9%	4,754,372.14	91%
85	July-13	4,987,292.11	372,992.40	7%	4,614,299.70	93%
86	Aug-13	4,849,001.48	298,890.93	6%	4,550,110.55	94%
87	Sep-13	4,987,626.49	376,226.02	8%	4,611,400.47	92%
88	Oct-13	4,766,261.63	512,972.96	11%	4,253,288.67	89%
89	Nov-13	4,677,500.80	528,864.25	11%	4,148,636.54	89%
90	Dec-13	4,609,734.84	596,725.33	13%	4,013,009.51	87%
91	Jan-14	4,312,799.83	237,572.21	6%	4,075,227.62	94%
92	Feb-14	4,567,631.21	381,847.63	8%	4,185,783.58	92%
93	Mar-14	4,377,185.09	363,153.84	8%	4,014,031.24	92%
94	Apr-14	5,127,579.02	365,717.19	7%	4,761,861.83	93%

Annex 4. WESM Metered Quantity, Spot Quantity, Bilateral Quantity (MWh)

Billing Month		Metered Quantity (Load), MWh	Spot Quantity (Load), MWh	%	Bilateral Contract Quantity, MWh	%
95	May-14	5,398,330.57	311,115.95	6%	5,087,214.61	94%
96	Jun-14	5,529,234.27	392,073.55	7%	5,137,160.72	93%
97	Jul-14	4,838,209.25	405,791.36	8%	4,432,417.88	92%
98	Aug-14	5,142,299.09	269,169.24	5%	4,873,129.84	95%
99	Sep-14	5,114,897.88	327,069.32	6%	4,787,828.56	94%
100	Oct-14	5,038,319.29	402,860.62	8%	4,635,458.47	92%

Source: PEMC

Annex 5. WESM Demand and Energy Offers (MW) (Luzon)

Billing Month		Peak Demand	Coincidental Energy Offers	Average Demand	Average Energy Offers	Average Capacity on Outage
1	Jul-2006	6,111	7,185	4,778	6,242	2,634
2	Aug-2006	5,888	5,950	4,634	6,027	2,094
3	Sep-2006	6,113	6,705	4,887	6,446	1,743
4	Oct-2006	5,895	6,653	4,323	5,818	1,866
5	Nov-2006	5,894	5,808	4,715	5,769	2,223
6	Dec-2006	5,869	5,925	4,468	5,257	3,188
7	Jan-2007	5,739	5,794	4,407	5,250	1,815
8	Feb-2007	6,021	5,965	4,529	5,371	1,737
9	Mar-2007	6,108	5,747	4,845	5,362	1,846
10	Apr-2007	6,559	6,268	4,991	5,284	1,769
11	May-2007	6,590	6,831	5,249	5,766	770
12	Jun-2007	6,547	6,308	5,187	5,631	1,137
13	Jul-2007	6,413	5,384	5,124	5,099	1,454
14	Aug-2007	6,339	6,015	4,880	5,675	953
15	Sep-2007	6,376	6,073	4,894	5,568	1,440
16	Oct-2007	6,103	6,260	4,872	5,723	1,725
17	Nov-2007	6,088	5,964	4,659	5,833	1,608
18	Dec-2007	6,092	5,989	4,645	5,529	1,106
19	Jan-2008	5,949	6,495	4,564	5,594	1,166
20	Feb-2008	6,034	5,880	4,676	5,410	1,618
21	Mar-2008	6,205	5,664	4,725	5,337	1,800
22	Apr-2008	6,619	6,584	5,301	5,949	1,149
23	May-2008	6,590	7,141	5,035	6,344	967
24	Jun-2008	6,681	6,733	5,159	6,639	860
25	Jul-2008	6,512	6,401	5,164	5,909	1,168
26	Aug-2008	6,373	6,795	4,948	6,189	1,459
27	Sep-2008	6,448	6,516	5,120	6,534	1,300
28	Oct-2008	6,520	6,316	5,124	5,825	1,845
29	Nov-2008	6,395	6,361	4,986	5,828	1,204
30	Dec-2008	6,338	6,826	4,711	6,327	946
31	Jan-2009	6,050	6,512	4,191	5,603	1,472
32	Feb-2009	6,421	6,240	4,853	5,969	1,281
33	Mar-2009	6,638	6,721	5,167	6,315	1,104
34	Apr-2009	6,810	7,220	5,068	6,374	1,383
35	May-2009	6,842	7,493	5,157	6,788	1,250
36	Jun-2009	6,932	7,374	5,203	6,876	1,432
37	Jul-2009	6,819	7,482	5,258	6,875	980
38	Aug-2009	6,833	7,263	5,255	6,692	1,577
39	Sep-2009	6,870	7,044	5,228	7,007	1,592
40	Oct-2009	6,501	6,532	4,935	6,511	2,427
41	Nov-2009	6,585	7,474	5,141	6,912	1,024
42	Dec-2009	6,564	7,195	5,070	6,720	1,176
43	Jan-2010	6,391	6,266	4,902	5,813	2,071

Annex 5. WESM Demand and Energy Offers (MW) (Luzon)

Billing Month		Peak Demand	Coincidental Energy Offers	Average Demand	Average Energy Offers	Average Capacity on Outage
44	Feb-2010	6,877	6,783	5,435	5,592	2,520
45	Mar-2010	7,037	6,347	5,683	5,864	1,867
46	Apr-2010	7,296	7,169	5,574	6,079	1,696
47	May-2010	7,558	7,152	6,101	6,932	631
48	Jun-2010	7,643	7,791	6,027	6,618	1,245
49	Jul-2010	7,242	7,447	5,605	6,247	1,712
50	Aug-2010	7,042	7,049	5,699	6,780	1,737
51	Sep-2010	7,039	7,170	5,656	6,480	2,193
52	Oct-2010	7,044	6,731	5,576	5,986	2,445
53	Nov-2010	6,842	6,857	5,512	6,229	2,214
54	Dec-2010	6,902	7,028	5,543	6,354	2,121
55	Jan-2011	6,587	6,778	5,035	6,299	
56	Feb-2011	6,864	7,161	5,366	6,796	
57	Mar-2011	6,973	7,655	5,484	7,279	
58	Apr-2011	7,037	7,419	5,384	6,953	
59	May-2011	7,507	7,326	6,059	6,892	
60	Jun-2011	7,530	7,338	5,828	6,964	
61	Jul-2011	7,404	7,742	5,814	6,722	
62	Aug-2011	7,188	7,394	5,699	6,847	
63	Sep-2011	7,099	7,039	5,686	6,789	
64	Oct-2011	7,219	7,252	5,594	6,552	
65	Nov-2011	7,193	7,157	5,713	7,015	
66	Dec-2011	7,137	7,154	5,610	6,896	
67	Jan-2012	7,034	6,978	5,395	6,622	
68	Feb-2012	7,164	7,635	5,650	7,183	
69	Mar-2012	7,500	7,935	5,942	7,289	
70	Apr-12	7,894	7,590	5,939	7,251	
71	May-12	7,898	7,660	6,484	6,985	
72	Jun-12	7,685	6,987	6,220	6,710	
73	Jul-12	7,564	7,098	5,976	6,700	
74	Aug-12	7,244	7,895	5,488	7,667	
75	Sep-12	7,298	7,244	5,849	7,345	
76	Oct-12	7,394	7,426	5,949	7,220	
77	Nov-12	7,434	7,071	5,878	7,239	
78	Dec-12	7,362	7,002	5,958	7,044	
79	Jan-13	7,031	7,746	5,461	7,048	
80	Feb-13	7,242	7,831	5,797	7,349	
81	Mar-13	7,684	7,440	6,147	7,387	
82	Apr-13	8,232	7,674	6,469	7,270	
83	May-13	8,237	7,642	6,674	7,536	
84	June-13	8,178	8,253	6,543	7,774	

Annex 5. WESM Demand and Energy Offers (MW) (Luzon)

Billing Month		Peak Demand	Coincidental Energy Offers	Average Demand	Average Energy Offers	Average Capacity on Outage
85	July-13	8,017	8,474	6,461	8,448	
86	Aug-13	7,764	8,560	5,969	7,892	
87	Sep-13	7,918	8,980	6,125	8,099	
88	Oct-13	7,582	7,777	6,072	7,170	
89	Nov-13	7,495	7,622	5,960	7,110	
90	Dec-13	7,606	8,384	6,044	7,227	
91	Jan-14	7,066	8,160	5,418	7,933	
92	Feb-14	7,475	8,604	5,788	8,031	
93	Mar-14	7,639	7,798	6,077	7,018	
94	Apr-14	8,203	7,792	6,425	6,975	
95	May-14	8,671	8,388	6,985	7,734	
96	Jun-14	8,589	8,120	6,866	7,506	
97	Jul-14	8,254	6,995	6,171	6,499	
98	Aug-14	8,180	7,894	6,361	7,514	
99	Sep-14	7,955	8,364	6,328	7,667	
100	Oct-14	7,952	7,840	6,452	7,968	

Source: PEMC

Annex 6. WESM Demand and Energy Offers (MW) (Visayas)

Billing Month		Peak Demand	Coincidental Energy Offers	Average Demand	Average Energy Offers	Average Capacity on Outage
55	Jan-2011	1,264	1,305	948	1,243	
56	Feb-2011	1,282	1,272	968	1,207	
57	Mar-2011	1,309	1,389	999	1,277	
58	Apr-2011	1,346	1,511	1,004	1,363	
59	May-2011	1,383	1,493	1,087	1,434	
60	Jun-2011	1,356	1,490	1,069	1,446	
61	Jul-2011	1,381	1,560	1,071	1,490	
62	Aug-2011	1,355	1,587	1,051	1,509	
63	Sep-2011	1,405	1,511	1,085	1,559	
64	Oct-2011	1,377	1,532	1,064	1,494	
65	Nov-2011	1,407	1,669	1,076	1,460	
66	Dec-2011	1,447	1,618	1,084	1,527	
67	Jan-2012	1,369	1,586	1.020	1,527	
68	Feb-2012	1,348	1,605	1,024	1,531	
69	Mar-2012	1,369	1,600	1,069	1,532	
70	Apr-12	1,460	1,710	1,085	1,603	
71	May-12	1,444	1,647	1,153	1,600	
72	Jun-12	1,423	1,728	1,118	1,618	
73	Jul-12	1,436	1,539	1,100	1,519	
74	Aug-12	1,462	1,623	1,130	1,547	
75	Sep-12	1,448	1,651	1,119	1,531	
76	Oct-12	1,425	1,488	1,123	1,482	
77	Nov-12	1,467	1,503	1,125	1,496	
78	Dec-12	1,486	1,703	1,113	1,541	
79	Jan-13	1,417	1,729	1,087	1,607	
80	Feb-13	1,408	1,706	1,075	1,584	
81	Mar-13	1,475	1,754	1,153	1,641	
82	Apr-13	1,484	1,598	1,176	1,552	
83	May-13	1,572	1,557	1,249	1,625	
84	June-13	1,526	1,671	1,187	1,575	
85	July-13	1,510	1,660	1,176	1,585	
86	Aug-13	1,499	1,622	1,148	1,565	
87	Sep-13	1,528	1,692	1,194	1,575	
88	Oct-13	1,458	1,664	1,140	1,466	
89	Nov-13	1,489	1,611	936	1,487	
90	Dec-13	1,260	1,247	953	1,190	
91	Jan-14	1,294	1,346	942	1,312	
92	Feb-14	1,307	1,463	971	1,370	
93	Mar-14	1,367	1,565	1,068	1,511	
94	Apr-14	1,472	1,604	1,127	1,545	
95	May-14	1,512	1,586	1,235	1,514	

Annex 6. WESM Demand and Energy Offers (MW) (Visayas)

Billing Month		Peak Demand	Coincidental Energy Offers	Average Demand	Average Energy Offers	Average Capacity on Outage
96	Jun-14	1,535	1,524	1,239	1,481	
97	Jul-14	1,453	1,478	1,158	1,420	
98	Aug-14	1,532	1,540	1,187	1,450	
99	Sep-14	1,487	1,555	1,159	1,477	
100	Oct-14	1,462	1,476	1,131	1,392	

Source: PEMC

Annex 7. WESM Generation Mix (%)

Billing Month		Hydro	Geo	Coal	Nat Gas	Diesel/Oil	Wind	Biofuel
1	Jul-06	12.53%	9.28%	33.67%	43.16%	1.27%	0.09%	
2	Aug-06	21.78%	8.89%	24.27%	44.91%	0.08%	0.07%	
3	Sep-06	18.37%	9.29%	29.71%	42.49%	0.09%	0.04%	
4	Oct-06	13.81%	6.34%	28.65%	49.74%	1.25%	0.21%	
5	Nov-06	15.72%	7.03%	26.93%	47.25%	2.90%	0.17%	
6	Dec-06	17.15%	6.58%	30.53%	35.12%	10.24%	0.38%	
7	Jan-07	11.72%	6.61%	30.30%	50.47%	0.61%	0.30%	
8	Feb-07	10.76%	9.57%	28.08%	49.97%	1.46%	0.15%	
9	Mar-07	8.62%	9.46%	33.48%	45.65%	2.66%	0.14%	
10	Apr-07	6.67%	8.83%	31.52%	46.03%	6.84%	0.11%	
11	May-07	5.12%	7.47%	36.34%	48.21%	2.80%	0.06%	
12	Jun-07	9.29%	8.88%	32.39%	44.63%	4.80%	0.02%	
13	Jul-07	8.93%	9.57%	32.21%	39.69%	9.56%	0.04%	
14	Aug-07	9.29%	10.14%	33.72%	44.87%	1.88%	0.09%	
15	Sep-07	11.80%	10.62%	29.68%	47.24%	0.61%	0.04%	
16	Oct-07	16.15%	11.26%	31.15%	39.86%	1.35%	0.23%	
17	Nov-07	17.07%	11.54%	31.76%	38.46%	0.91%	0.28%	
18	Dec-07	16.09%	11.71%	30.97%	37.42%	3.61%	0.20%	
19	Jan-08	11.32%	11.60%	31.77%	43.24%	1.83%	0.25%	
20	Feb-08	11.76%	11.48%	29.86%	43.77%	2.86%	0.26%	
21	Mar-08	11.92%	10.85%	21.28%	52.86%	2.88%	0.21%	
22	Apr-08	7.68%	9.93%	29.26%	48.43%	4.63%	0.07%	
23	May-08	12.08%	10.07%	27.65%	49.28%	0.85%	0.08%	
24	Jun-08	14.92%	10.23%	28.65%	45.09%	1.09%	0.03%	
25	Jul-08	12.88%	9.40%	29.65%	42.99%	5.04%	0.04%	
26	Aug-08	15.07%	11.42%	21.23%	47.02%	5.18%	0.08%	
27	Sep-08	14.91%	10.41%	24.68%	45.40%	4.54%	0.05%	
28	Oct-08	15.37%	9.31%	32.54%	39.82%	2.84%	0.12%	
29	Nov-08	10.92%	9.59%	36.02%	40.69%	2.61%	0.18%	
30	Dec-08	11.44%	9.28%	33.34%	45.08%	0.57%	0.29%	
31	Jan-09	11.61%	12.99%	36.68%	37.97%	0.34%	0.40%	
32	Feb-09	10.16%	10.24%	35.38%	42.23%	1.81%	0.17%	
33	Mar-09	7.77%	10.10%	32.95%	46.79%	2.31%	0.09%	
34	Apr-09	6.17%	9.72%	32.54%	46.65%	4.76%	0.15%	
35	May-09	11.42%	8.92%	29.58%	44.95%	4.95%	0.17%	
36	Jun-09	14.27%	8.46%	26.88%	45.88%	4.44%	0.08%	
37	Jul-09	13.85%	8.33%	30.58%	45.82%	1.38%	0.04%	
38	Aug-09	17.95%	7.75%	26.92%	43.92%	3.42%	0.04%	
39	Sep-09	17.01%	7.12%	24.69%	47.59%	3.56%	0.04%	
40	Oct-09	21.46%	8.08%	20.64%	46.80%	2.92%	0.11%	

Annex 7. WESM Generation Mix (%)

Billing Month		Hydro	Geo	Coal	Nat Gas	Diesel/Oil	Wind	Biofuel
41	Nov-09	11.41%	8.84%	30.12%	46.82%	2.62%	0.19%	
42	Dec-09	9.76%	8.91%	30.80%	48.50%	1.79%	0.24%	
43	Jan-10	9.58%	9.76%	30.48%	45.93%	3.97%	0.28%	
44	Feb-10	8.19%	8.04%	42.71%	32.69%	8.27%	0.10%	
45	Mar-10	6.45%	8.56%	46.90%	28.70%	9.30%	0.08%	
46	Apr-10	4.53%	7.46%	43.11%	37.75%	7.00%	0.15%	
47	May-10	3.86%	6.51%	44.52%	40.50%	4.57%	0.04%	
48	Jun-10	4.69%	6.46%	42.54%	40.69%	5.58%	0.04%	
49	Jul-10	8.75%	6.47%	35.74%	41.20%	7.81%	0.02%	
50	Aug-10	11.25%	6.51%	35.38%	41.44%	5.28%	0.14%	
51	Sep-10	11.36%	6.56%	33.22%	44.17%	4.62%	0.06%	
52	Oct-10	9.87%	7.46%	33.21%	43.92%	5.46%	0.08%	
53	Nov-10	12.15%	7.51%	34.93%	42.51%	2.64%	0.26%	
54	Dec-10	9.70%	7.70%	37.60%	42.70%	2.00%	0.30%	
55	Jan-11	8.30%	18.00%	39.10%	33.10%	1.10%	0.30%	0.006%
56	Feb-11	7.66%	16.58%	34.94%	39.66%	0.93%	0.22%	0.009%
57	Mar-11	7.07%	15.25%	38.49%	38.16%	0.72%	0.25%	0.071%
58	Apr-11	8.3%	18.0%	39.8%	32.9%	0.7%	0.312%	0.013%
59	May-11	7.6%	16.7%	35.0%	39.4%	1.0%	0.218%	0.023%
60	Jun-11	7.1%	15.2%	38.4%	38.0%	1.1%	0.239%	0.050%
61	Jul-11	5.6%	15.9%	39.8%	37.6%	0.8%	0.219%	0.122%
62	Aug-11	4.4%	14.6%	42.2%	35.7%	2.9%	0.056%	0.036%
63	Sep-11	5.8%	15.1%	41.1%	36.9%	1.0%	0.049%	0.000%
64	Oct-11	13.7%	14.3%	34.6%	34.3%	3.1%	0.100%	0.006%
65	Nov-11	10.7%	14.5%	36.5%	36.6%	1.4%	0.196%	0.059%
66	Dec-11	10.2%	15.5%	37.6%	34.9%	1.4%	0.294%	0.086%
67	Jan-12	9.0%	16.2%	36.0%	37.0%	1.4%	0.285%	0.089%
68	Feb-12	8.0%	15.8%	39.0%	35.8%	1.1%	0.167%	0.115%
69	Mar-12	6.8%	16.1%	40.1%	35.3%	1.6%	0.128%	0.088%
70	Apr-12	6.0%	15.7%	42.5%	33.4%	2.1%	0.118%	0.065%
71	May-12	5.5%	14.4%	42.9%	33.3%	4.0%	0.018%	0.012%
72	Jun-12	7.00%	14.86%	41.28%	32.86%	3.87%	0.10%	0.01%
73	Jul-12	8.99%	15.52%	41.23%	31.17%	3.06%	0.03%	0.01%
74	Aug-12	16.22%	15.53%	35.17%	32.30%	0.63%	0.14%	0.00%
75	Sep-12	14.78%	14.56%	35.95%	33.03%	1.61%	0.07%	0.00%
76	Oct-12	9.59%	14.74%	40.85%	32.29%	2.29%	0.19%	0.04%
77	Nov-12	8.63%	14.98%	44.72%	29.34%	2.08%	0.14%	0.10%
78	Dec-12	7.6%	14.7%	45.2%	28.4%	3.9%	0.2%	0.1%
79	Jan-13	8.0%	16.1%	38.8%	36.2%	0.5%	0.2%	0.1%
80	Feb-13	7.0%	16.2%	43.3%	32.8%	0.4%	0.2%	0.2%

Annex 7. WESM Generation Mix (%)

Billing Month		Hydro	Geo	Coal	Nat Gas	Diesel/Oil	Wind	Biofuel
81	Mar-13	6.3%	14.4%	45.6%	32.2%	1.3%	0.1%	0.2%
82	Apr-13	5.6%	14.3%	45.4%	31.1%	3.3%	0.1%	0.1%
83	May-13	5.8%	13.7%	46.3%	31.5%	2.5%	0.0%	0.0%
84	June-13	6.7%	13.5%	48.8%	29.4%	1.6%	0.019%	0.021%
85	July-13	7.6%	13.2%	49.9%	28.8%	0.5%	0.029%	0.009%
86	Aug-13	11.0%	14.6%	43.0%	30.3%	1.0%	0.077%	0.002%
87	Sep-13	15.5%	14.7%	40.3%	28.6%	0.9%	0.057%	0.011%
88	Oct-13	12.6%	14.6%	37.1%	32.4%	3.0%	0.110%	0.106%
89	Nov-13	9.9%	10.7%	48.9%	25.7%	4.5%	0.194%	0.129%
90	Dec-13	10.2%	10.0%	48.3%	24.8%	6.2%	0.208%	0.188%
91	Jan-14	8.5%	12.9%	44.3%	33.0%	0.9%	0.220%	0.154%
92	Feb-14	7.7%	14.3%	44.8%	32.0%	0.9%	0.154%	0.237%
93	Mar-14	5.9%	15.2%	47.3%	27.7%	3.5%	0.151%	0.277%
94	Apr-14	4.5%	14.3%	45.6%	27.9%	7.4%	0.06%	0.19%
95	May-14	4.0%	14.4%	47.4%	28.0%	6.0%	0.04%	0.12%
96	Jun-14	6.1%	15.1%	44.8%	28.2%	5.7%	0.06%	0.06%
97	Jul-14	6.3%	15.2%	42.0%	27.5%	8.9%	0.07%	0.04%
98	Aug-14	7.5%	13.4%	45.3%	30.8%	2.9%	0.10%	0.08%
99	Sep-14	10.4%	13.9%	44.0%	29.0%	2.6%	0.05%	0.11%
100	Oct-14	10.0%	14.5%	43.2%	30.2%	1.9%	0.14%	0.12%

Source: PEMC

Annex 8. WESM Effective Settlement Prices (PhP/MWh)

Billing Month		ESP (w/ Surplus)	ESP (w/o Surplus)	Cumulative Average ESP
1	Jul-06	3,255.36	3,094.12	3,152
2	Aug-06	3,767.94	3,577.67	3,373
3	Sep-06	4,129.05	4,129.05	3,624
4	Oct-06	4,159.09	4,159.09	3,750
5	Nov-06	6,092.03	5,746.92	4,115
6	Dec-06	9,807.99	8,731.92	4,542
7	Jan-07	3,981.62	3,791.67	4,481
8	Feb-07	4,932.45	4,810.36	4,501
9	Mar-07	5,936.19	5,370.34	4,560
10	Apr-07	8,738.61	8,592.97	4,871
11	May-07	7,555.25	6,484.51	4,962
12	Jun-07	7,164.04	6,031.63	5,062
13	Jul-07	8,768.71	8,350.31	5,223
14	Aug-07	4,626.97	4,348.65	5,196
15	Sep-07	4,309.14	3,538.37	5,147
16	Oct-07	6,244.44	3,599.09	5,119
17	Nov-07	5,276.00	2,618.23	5,056
18	Dec-07	6,793.73	6,425.61	5,098
19	Jan-08	2,551.23	2,278.66	5,010
20	Feb-08	5,729.20	5,389.93	5,024
21	Mar-08	6,723.81	6,373.18	5,060
22	Apr-08	6,006.01	5,545.63	5,085
23	May-08	2,315.63	1,734.50	5,005
24	Jun-08	3,370.16	2,100.68	4,933
25	Jul-08	16,600.93	7,872.34	5,037
26	Aug-08	4,124.77	4,124.77	5,016
27	Sep-08	3,911.62	3,911.62	4,981
28	Oct-08	4,009.38	4,009.38	4,955
29	Nov-08	5,520.95	4,833.61	4,954
30	Dec-08	1,244.97	786.69	4,831
31	Jan-09	1,881.33	1,797.76	4,733

Annex 8. WESM Effective Settlement Prices (PhP/MWh)

Billing Month		ESP (w/ Surplus)	ESP (w/o Surplus)	Cumulative Average ESP
32	Feb-09	3,062.87	2,893.06	4,662
33	Mar-09	3,395.09	2,774.35	4,614
34	Apr-09	4,350.10	3,798.38	4,598
35	May-09	2,871.07	2,516.38	4,548
36	Jun-09	2,519.61	2,207.39	4,497
37	Jul-09	3,294.88	2,041.02	4,459
38	Aug-09	2,291.13	1,986.39	4,395
39	Sep-09	2,080.29	1,148.78	4,328
40	Oct-09	1,445.37	1,396.63	4,264
41	Nov-09	2,287.51	2,089.83	4,221
42	Dec-09	3,656.20	3,304.74	4,205
43	Jan-10	4,559.03	4,425.10	4,209
44	Feb-10	11,286.94	10,999.48	4,393
45	Mar-10	13,383.73	12,253.53	4,541
46	Apr-10	8,873.98	8,725.72	4,635
47	May-10	8,467.56	7,933.40	4,714
48	Jun-10	8,737.16	8,265.95	4,807
49	Jul-10	10,542.92	9,089.57	4,902
50	Aug-10	5,952.68	5,034.90	4,906
51	Sep-10	8,980.91	7,508.47	4,936
52	Oct-10	10,276.10	9,543.00	4,993
53	Nov-10	7,492.27	7,011.72	5,024
54	Dec-10	6,824.19	6,394.00	5,043
55	Jan-11	3,388		
56	Feb-11	3,453		
57	Mar-11	2,554		
58	Apr-11	3,404		
59	May-11	6,408		
60	Jun-11	4,189		

Annex 8. WESM Effective Settlement Prices (PhP/MWh)

Billing Month		ESP (w/ Surplus)	ESP (w/o Surplus)	Cumulative Average ESP
61	Jul-11	5,179		
62	Aug-11	4,395		
63	Sep-11	5,035		
64	Oct-11	8,192		
65	Nov-11	6,050		
66	Dec-11	5,548		
67	Jan-12	6,321		
68	Feb-12	4,122		
69	Mar-12	5,405		
70	Apr-12	4,300		
71	May-12	8,914		
72	Jun-12	12,667		
73	Jul-12	10,725		
74	Aug-12	3,572		
75	Sep-12	5,806		
76	Oct-12	7,543		
77	Nov-12	7,015		
78	Dec-12	8,057		
79	Jan-13	3,262		
80	Feb-13	3,163		
81	Mar-13	5,719		
82	Apr-13	7,740		
83	May-13	6,838		
84	June-13	5.780		
85	July-13	3,737		
86	Aug-13	4,439		
87	Sep-13	3,726		
88	Oct-13	8,253		
89	Nov-13	16,895		
90	Dec-13	25,667		
91	Jan-14	2,655		
92	Feb-14	2,853		
93	Mar-14	9,123		
94	Apr-14	12,297		
95	May-14	4,677		

Annex 8. WESM Effective Settlement Prices (PhP/MWh)

Billing Month		ESP (w/ Surplus)	ESP (w/o Surplus)	Cumulative Average ESP
96	Jun-14	6,716		
97	Jul-14	7,971		
98	Aug-14	5,541		
99	Sep-14	5,581		
100	Oct-14	3,661		

Source: PEMC

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	COAL			**1,372.00**			
Committed	135 MW Puting Bato Coal Fired Power Plant Phase I	South Luzon Thermal Energy Corp. (SLTEC)	Brgy. Puting Bato West, Calaca, Batangas	135	-Financial Arrangement Secured on 28 October 2014; -GIS approved by NGCP on 17 May 2013; -Started Construction on December 2011; -Construction Duration - 32 Months; -230kV Salong Switching Station owned by NGCP is tied up with SLTEC; 230 kV Salong Switching Station energized Bay 1; -All test are made for the 230kV switchyard; Generator is for final alignment; All materials for the project is for installation; Hydro test and thermal insulation in boiler completed; On-going air ducting and insulation for ESP; -EPC works as of 31 August 2014- 98.88% completed; -Construction Progress: Commissioing of installed equipments; On-going commissioning of steam blowing, water treatment and saltwater intake; All materials need are installed;On-going air ducting and insulation for ESP; -Ash Management Facility Completion - 30 April 2014; -Ground breaking - February 2012; -Project cost is Php12.9B	May 2014	October 2014
Committed	2 X 150 MW SLPGC Coal-Fired Power Plant Phase I	Southwest Luzon Power Generation Corporation (Project Company)	Brgy. San Rafael, Calaca, Batangas	300	-Financial Arrangement Secured on 24 February 2012 (60% Loan / 40% Equity); - GIS approved by NGCP on 8 November 2011; -Awaiting for the approval of NGCP for the Dasmariñas-Calaca Reinforcement and right of way for the transmission lines; -Hydro testing for the boiler - 25 April 2014; -Embedded plate for turbine, ready for installation - Unit 1; -Complete Seawater Intake - June 2014; -On-going installation for panels - Unit II; -Expected to complete Coal yard operation by Mid-May 2014; -230 kV Switchyard steel super structure is substantially completed; -On-going negotiations with prospective off-	Unit I & II -December 2014	Unit 1 - March 2015 Unit 2 - June 2015

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					takes (DUs and those currently with PSAs and contestable market under Open Access Regime; -Site Mobilization / Commencement of Construction on May 2012; -Project Progress as of 31 August 2014 - 86.7%; -Completed Steam Turbine Bed Plate Locating-Unit II; Completed Boiler Test Hydro Test - Unit II;On-going installaton of CW Piping;On-going Central Control Room Civil Works;Assembly and alignment of turbne on September 2014;On-going erection/assembly of gantry steel structure (beam and columns) and equipment pedestal steel structure;DCS Cabinet Unit 1 to be energized by the end of August 2014; -Groundbreaking - May 2012; -Project cost for Phase I is Php20.4B		
Committed	135 MW Puting Bato Coal Fired Power Plant Phase II	South Luzon Thermal Energy Corp. (SLTEC)	Brgy. Puting Bato West, Calaca, Batangas	135	-Financial Close with tenders on 1 July 2013; -GIS approved by NGCP on 17 May 2013; -Started Construction on August 2013; -Construction Duration - 28 Months; -Delivered Boiler Stream Drum - 22 April 2014; Delivery of Turbine - 2nd week of September 2014; -EPC works as of 31 August 2014: 64.05% completed; -Turbine Generation House - On-going construction; -Boiler Structure: On-going Construction; -Coal yard-98% completed (as of August 2014);- On-going Construction; Downcomer pipes installed; Awaiting for ESP structure; Chimney Foundtion - 3.7m; -Material Receiving Facility - 99.59% completed; -Groundbreaking Target Date - August 2013; -Project cost is Php 9.6B	June 2015	November 2015

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Committed	Anda Power Corporation's 82 MW Ciculating Fluidized Bed Coal Fired Power Plant	Anda Power Corporation	Brgy. Bundagul, Mabalacat, Pampanga	82	- Financial Arrangement Secured ; - On-going negotiations with offtakers; - Awaiting for the review report of NGCP of the SIS (Unit 1 to be included in the simulation in the SIS); - Commencement of Construction:March 2014; - Total Project Cost- $196,246,837.63	June 2015	October 2015
Committed	1 x 420 MW Pagbilao Coal-Fired Thermal Power Plant	Pagbilao Energy Corporation	Pagbilao Power Station, Nrgy. Ibabang Polo, Pagbilao, Quezon	420	-Financial Arrangement Secured with various lenders on 30 July 2014;All conditions precedent have been fulfilled/satisfied;First and second drawdowns completed; -Estimated Net Capacity: 400MW; -Feasibility Study completed; -Marketing of Generating Capacities: Contract with off-takers completed, Suppy agreement executed; -Permits & Other Regulatory Requirements: Environmental Compliance Certificate was issued on 18 June 2013; Secured endorsement from Sangguniang Barangay of Ibabang Polo, Sangguniang Bayan of Pagbilao, Sangguniang Panlalawigan of Quezon; -In final negotiations with NPC, PSALM, TeaM Energy Corporation and Therma Luzon, Inc. to co-locate the plant in the existing Pagbilao Power Station; Marketing of Generating Capacities: 50% of the plant's capability will be sold to Therma Luzin Inc. and other 50% will be sold to TeaM (Phils.) Energy Corporation; Construction Contracts for Plant & Equipment:Completed and executed;Notice to Proceed and Commencement Notice issued to EPC Contractor;Down Payment already released to EPC contractor; -Target Commencement of EPC and Construction: 30 May 2014; Ground Breaking Date: 23 July 2014 -Estimated Project Cost: US$	Between May to November 2017	November 2017

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					1,000,000,000.00		
	NATURAL GAS			**1,150.00**			
Committed	Pagbilao 600 MW Combined Cycle Gas Fired Power Plant Proposed 3x200 MW CCGT Power Plant	Energy World Corporation	Brgy. Ibabang Polo, Grande Island, Pagbilao, Quezon	600	-Financial Arrangement Secured : Financing equity will be 100% sourced from EWC; - GIS for 300MW issued by NGCP on 8 August 2013 and revised on 3 July 2013 for 600MW ; Issued DOE Endorsement for Revised Capacity on 3 July 2013; Revised DOE clearance for GIS submitted to NGCP on January 2014;GIS from NGCP for the 600MW was released on August 2014; -Land is already secured with a long lease entered into since 2007; -Commencement of Construction: December 2013; -Off-taker:No specific offtaker yet but already have a discussion with Federation of Philippine Industries, intended to supply power into the Wholesale Electricity Spot Market but is also open to discussing potential off take arrangements as well; Perrmits and Regulatory Requirements: Several Resolutions has been issued on May 2014 (Sangguniang Barangay Resolution, Sangguniang Bayan Resolution and Sangguniang Panlalawigan Resolution) interposing no objection for the construction of a 600 MW Liquified Natural Gas (LNG) Power Plant; On-going processing of ECC for power plant; On-going processing -Entered into a Sale and Purchase Agreement last October 2012 with Siemens Energy for two 200 MW gas turbines and the first 200MW turbine is expected to arrive by	-January 2015:1st Unit -200MW, 'Dec 2015:2nd Unit-200MW 'Dec 2016:3rd Unit-200MW	February - March :1st Unit -200MW, 'Dec 2015:2nd Unit-200MW 'Dec 2016:3rd Unit-200MW

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					September 2014; -LNG Tank is currently at 50% construction completed as of August 2014; -Project Cost:$300M		
Committed	100 MW San Gabriel Avion Project	Prime Meridian PowerGen Corporation (Project Company)	Barangay Bolbok, Batangas	100	-Financial Arrangement Secured : -Secured Clearance from DOE for the conduct of GIS on 21 June 2011; -System Impact Study (SIS) was completed; -Amendment of Philippine Ports Authority (PPA) charter to accomodate for the right of way for the project site is still for approval by the Office of the President; Engineering and design by the Contractors is ongoing finalization with parallel reviews being performed by PMPC and its Technical Consultants; Excavation and ground preparation works by the EPC contractor are ongoing; Procurement of plant equipment is continuing, with most of the major power plant components either being manufactured or are scheduled for delivery to the site; Delivery of the first of two (2) Gas Turbine	April 2015	April 2015

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					and some anicillary euipment have arrived at the Port of Batangas on 5 October 2014 and are expected to be delivered to the site by 24 October 2014;Shipment of the 2nd Gas Turbine and ancillary equipment is expected to arrive at the prot of Batangas by the end of October 2014; -All test are conducted such as Seismic, Geological and Hydro tests; -Seven (7) poles are to be set up for the transmission lines; -Signing of Contract with Meiscor for the construction of transmission line April 22, 2014; -Committed Arrival of the Turbine - September 2014; -Off-taker: Discussion with target off-takers on-going; -Commencement of Construction will be on October 2013; -Project cost is Php10B		
Committed	San Gabriel Power Plant	First Gas Power Corp.	San Gabriel, Batangas	450	-Financial Arrangement Secured on 10 July 2014 : -Secured Clearance from DOE for the conduct of GIS on 18 February 2013 ; -SIS was approved by NGCP on 11 December 2013. ; -Commencement of Construction: December 2013; -Off-taker:Discussion with target offtakers targeted for the first half of 2014; -Construction of the Project has been progressing with iste preparation and foundation works; - Project cost is US$600 Million	January 2016	March 2016
	HYDROPOWER			**34.30**			
Committed	Catuiran	Sta. Clara Power Corp.	Naujan, Oriental Mindoro	8.0	-Financial Arrangement Secured; -Ground breaking held in January 2013; -Issued Confirmation of Commerciality on 07 February 2013; -Submission lacking requirements e.g. permits in progress.	March 2016	March 2016

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Committed	Inabasan	Ormin Power, Inc.	San Teodoro, Oriental Mindoro	10.0	-Financial Arrangement Secured; -Ground breaking held on 29 July 2013; - Issued Confirmation of Commerciality on 28 May 2013; -Already secured DENR ECC, NCIP Certificate, and NWRB Permit; -Submitted Feasibility Study, Detailed Engineering Design and 5-Yr Work Plan.	December 2015	December 2015
Committed	Linao-Cawayan (Upper Cascade)	Oriental Mindoro Electric Cooperative, Inc.	Baco, Oriental Mindoro	2.1	-Financial Arrangement Secured; -On-going construction; - Already secured LGU Endorsement, DENR ECC, NWRB CWP, NCIP Compliance Certificate; -Submitted Feasibility Study and 5-Yr Work Plan. Financing from DBP; - Project cost PhP 293M.	March 2016	March 2016
Committed	Sabangan	Hedcor Sabangan, Inc.	Mt. Province	13.2	-Financial Arrangement Secured; -Ground breaking held on June 2013; - Issued Confirmation of Commerciality on 28 August 2013; -On-going construction (Pre-construction - 100%, Construction-23.38%, Interconnection-0%) completed as of 30 September 2014 ; -Secured Clearance from DOE for the conduct of GIS on 18 June 2012;	June 2015	June 2015
Committed	Bulanao	DPJ Engineers and Consultants	Tabuk, Kalinga	1.0	-Financial Arrangement Secured; -Issued Confirmation of Commerciality on 11 March 2014; -Already secured NCIP clearance, DENR Permits, ESA with Kalinga Apayao Electric Cooperative Inc., Land lease Agreement; -On-going construction of intake structure and with purchase order for the turbine generator system; -Submitted Feasibility Study and 5-Yr Work Plan. Financing from DBP; - Project cost PhP 293M.	To be determined	To be determined
	SOLAR			50.00			
Committed	Cavite Economic Zone (CEZ) Solar Rooftop Power Project	Majestics Energy Corporation	Cavite Economic Zones I and II, Rosario and Gen. Trias, Cavite	40	- Financial Arrangement Secured- 100% Equity; - Awarded with Solar Energy Service	October 2014	October 2014

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					Contract (SESC No. 2013-10-040) on 30 October 2013; - Secured Third Party System Impact Study, ECC/CNC from DENR, CNO from NCIP, Provincial Resolutions of Support, Certificate of Registration from PEZA, and EPC Contract; -Acquired DOE Certificate of Confirmation of Commerciality on 27 June 2013; - Completed technical study; -On-going construction as of 30 September 2014 (Pre-Construction - 90% complete, Construction - 88% complete, Interconnection - 85% complete;) -On-going negotiation for Connection Agreement with NGCP; -On-going construction of its Balance of Systems (BOS); - On-going construction;		
Committed	Pampanga Solar Power Project	Raslag Corporation	Brgy. Suclaban, Mexico, Pampanga	10	'- Financial Arrangement Secured; -Awarded with Solar Energy Service Contract (SESC No. 2014-01-062) on 05 February 2014; -Secured ECC from DENR, Municipal and Barangay Resolution of Support, DAR Conversion of Land-Use from Agricultural to Industrial, Third Party Distribution Impact Study, and ownership of land; Completed the Full Blown Feasibility Study; -EPC Contract is under negotiation; -On-going construction as of 30 September 2014 (Pre-Construction -85% complete, Construction - 8% complete, Interconnection - 0% complete; -Financial Closing is under negotiation; -Declaration of Commerciality submitted on 28 February 2014; -Acquired DOE Certificate of Confirmation of Commerciality under FIT System on 13 June 2014; -Request for Amendment of CoCoC from 8MW to 10MW on 13 August 2014; -On-going acquisition of relevant permits	December 2014	December 2014

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					under Pre-Construction Stage as per Work Plan; -Filed a request for endorsement to avail the duty-free importation;		
	WIND			**317.40**			
Committed	Phase 1: Pililla Wind Power Project	Alternergy Wind One Corporation	Brgy. Halayhayin, Pililla, Rizal	67.5	-Financial Arrangement Secured -AWOC to finance the implementation of the project with 100% equity; -Awarded with Wind Energy Service Contract (WESC No. 2009-09-018) on 23 Oct 2009; -Acquired various LGU permits and resolutions of support, DENR Environmental Compliance Certificate, NCIP Certificate of Non-Overlap, Contract to Buy with private land owners, and clearances from DAR, NIA, LRA, HLURB, and Laguna Lake Development Authority; -Interconnection Agreement with MERALCO secured on 1 Mar 2012; -Regulatory requirements, permits, GIS, etc. were completed; -EPC and O&M Contract with consortium of Nordex SE and McConnell Donnell secured on 11 Jul 2012; -Secured Clearance from DOE for the conduct of GIS on 21 November 2011 ; -NGCP Review of Third Party SIS secured on 31 Jul 2012; -Acquired DOE Certificate of Confirmation of Commerciality on 16 May 2013; -Conducted Groundbreaking Ceremony on 18 Jun 2013; -On-going construction as of 30 September 2014 (Pre-Construction - 100% complete, Construction-5%, Interconnection-0%); -Started civil works on access road; -Amended the Contract Area and assigned fully to AWOC-WESC No. 2009-09-018-AF1 on 27 February 2014; -Total project cost is US$177.9Million;	July 2015	July 2015

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Committed	Phase 1: Burgos Wind Power Project	EDC Burgos Wind Power Corporation	Nagsurot-Saoit, Burgos, Ilocos Norte	87	-Financial Arrangement Secured: Issued certification dated 13 March 2013 that EDC, its parent company, has the capacity to finance the project;100% equity financed; : -Awarded with Wind Energy Service Contract (WESC No. 2009-09-004) on 14 Sept 2009; -Conducted detailed wind resource assessment; Acquired various LGU permits and resolutions of support, DENR Environmental Compliance Certificate, NCIP Certificate of Non-Overlap, Land Lease Agreement with private land owners, Forest Landuse Agreement with DENR for public land,DAR landuse conversion and exemption from CARP and CAAP Height Clearance permit; -Final Report of SIS and Connection Agreement with NGCP secured; -Supply, EPC and Service Energy Based Availability Agreement with the consortium of Vestas and First Balfuor secured; -Conducted Groundbreaking Ceremony on 17 Apr 2013; -On-going construction; Construction Stage as of as of 30 September 2014 - (Pre-Construction -100% completed, Construction-83% completed, Interconnection - 83% completed); -On-going acquisition of TL-ROW; -Completed the 29 WTG foundations; -Erected the 29 WTG;On-going construction of substation and TL; - Total project cost is US$291Million; -Acquired DOE Certificate of Confirmation of Commerciality on 16 May 2013	November 2014	November 2014

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Committed	Phase 3: Bangui Bay Wind Power Project	NorthWind Power Development Corporation	Bangui, Ilocos Norte	18.9	-Financial Arrangement Secured with a Bank dated 15 July 2013; -Covered by WESC No. 2013-07-058 dated 26 February 2013; -Conducted detailed wind resource assessment; -Completed detailed feasibility study; Acquired various LGU permits and resolutions of support, NCIP Certificate of Non-Overlap, DENR Amended Environmental Compliance Certificate and CAAP Height Clearance permit; -Secured Clearance from DOE for the conduct of GIS on 12 February 2013 ; -Acquired DOE Certificate of Confirmation of Commerciality on 03 December 2013; Amended the CoCoC in order to refect the improved capacity from 18Mw to 18.9MW on 10 September 2014); -On-going construction as of 30 September 2014 (Pre-Construction - 100% complete, Construction - 98% complete, Interconnection - 100% complete; -On-going civil works for access roads and WTG Foundations; as of 30 Septmber 2014 - Completed 6 out of 6 WTG Foundations;On-going completion/acceptance of SCADA with NGCP; -Erected 6 WTG; On-going installation of Balance of Plant equipment; -Acquired DOE Certificate of Confirmation of Commerciality on 03 December 2013 -Total project cost is US$48.5Million.	September 2014	September 2014
	BIOMASS			**59.73**			
Committed	24 MW SJCiPower Rice Husk-Fired Biomass power Plant Project (Phase 1 - 12MW Phase 2 - 12 MW)	San Jose City I Power Corporation	Brgy. Tulat, San Jose, Nueva Ecija	20.00	-Financially Closed; -Ongoing construction (87.69% completed); -Permits obtained-ECC,LGU,LandUse Permit) EPC w/ Engcon of Singapore; BREOC 2011-01-013; -Secured Clearance from DOE for the conduct of GIS on 21 July 2011 ; -Issued Certificate Confirmation of Commerciality-Sept 2013;	Phase 1 - September 2014 Phase 2 - December 2014 (Subject to FIT)	Phase 1 - September 2014 Phase 2 - December 2014 (Subject to FIT)

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Groundbreaking on 12 Oct 2013; -Proj.Cost Php1.234B		
Committed	12.5 MW Bataan 2020 Rice hull-fired Cogen Plant	Bataan 2020 Inc.	Bataan	7.50	- Financially Closed; --BREOC No. 2010-01-008; --Issued Certificate Confirmation of Commerciality on 27 August 2013; -100% Constructed & Operational (Operating for Own-Use); -Interconnection - 80% completed as of 30 September 2014	October 2014	December 2014
Committed	20 MW Rusk-Fired Biomass Power Plant	Isabela Biomass Energy Corporation	Alicia, Isabela	18	-Financially Closed; -BREOC No. 2013-03-030; -Issued Certificate Confirmation of Commerciality on 6 January 2014; -On-going construction as of 31 August 2014 -49% completed; Pre-construction -95% completed; Interconnection-2% completed; -Steam Turbine Generator (STG) - for concreting; -Fuel Storage - with partial roofing; -Awaiting permit from DPWH for the construction of drainage system; - Permits obtained (ECC, LGU Endorsement, Land Use Permit, etc.); -Secured Clearance from DOE for the conduct of GIS on 22 April 2013 ; -Issued Declaration of Commerciality on 6 January 2014; -Has EPC; -Project Status as of 30 September 2014:Pre-construction: 95%;Construction:49%;Interconnection 2%; -Subject to FIT; -Project cost is Php1.9B	March 2015	March 2015
Committed	12 MW Biomass Power Plant Projec	Green Innovations for Tomorrow Corporation	Nueva Ecija	10.80	-Financially Closed; -BREOC No. 2013-09-037; -Project Status as of 30 September 2014: Pre-Construction: 79%; Construction: 18%;Interconnection:0% -Issued Declaration of Commerciality on 16 June 2014; -On-going construction	December 2015	January 2016

Annex 9. Private Sector Initiated Power Projects in Luzon (Committed) as of 31 October 2014

Committed/ Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Committed	3.5 MW Bicol Biomass Energy Corporation	Bicol Biomass Energy Corporation	Camarines Sur	3.15	-Financially Closed; -On-going construction	December 2015	December 2015
Committed	0.4MW VM Agbayani Rice Mill Rice Husk-Fired Power Plant	V.M. Agbayani Rice Mill	Oriental Mindoro	0.28	-Financially Closed; -On-going construction;	-	-

Total Committed Rated Capacity: 2,983.43

Source: DOE

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	COAL			**6,200.00**			
Indicative	4 X 150 MW Coal Fired Thermal Power Plant	JG Summit Holdings, Inc.	Brgy. Pinamukan Ibaba, Batangas City	600	-Project Timeline: Pre-Construction Phase (8 months)- 1. construction of EIA study and permitting; 2. Design and Engineering; 3. Commissioning of EPC Contractor (Phase 1 and Phase2); Construction Phase (12 months) - Civil Works and plant equipment installation; Operation Phase (design life) - 1. Start-up and unit synchronization; 2. Commercial Operation; - Conduct of public Scoping with Stakeholder representatives - 10 October 2013; -Conduct of Technical Scoping with EMB and EIA Rev Com - 6 November 2013; -Conduct of EIA Study and Preparation of EIS - November 2013 to February 2014; -Draft EIS Submission and Preliminary Review - Middle of 2014; -Public Hearing - 1 month after submission of EIS; -EMB Review - 55 days; -ECC Decision - Target before end of 2014; -Secured Clearance from DOE for the conduct of GIS on 21 February 2014; -Secured Endorsement from DOE for Certificate of CNO from NCIP on14 July 2014; -On-going negotiations for the financing arrangements and other permits; -On-going securing of regulatory requirements	Unit 1 - June 2018 Unit 2 - Dec 2018 Unit 3 - June 2019 Unit 4 - Dec 2019	Unit 1 - June 2018 Unit 2 - Dec 2018 Unit 3 - June 2019 Unit 4 - Dec 2019
Indicative	2 X 20 MW FDC Camarines CFB Coal Power Plant	FDC Utilities, Inc.	Camarines Sur	40	-Completed technical and financial study; -Acquisition of project site ongoing; -Signed supply contract with franchised electric cooperative; -On-going negotiations for the financing arrangements and other permits; -Selection of EPC Contractor to commence after award of EPC contract for Danao; -Clearance to Underatake GIS from DOE issued on 29 December 2011; -On-going feasibility study and plant site evaluation; -On-going securing of regulatory requirements; -Other required permits and endorsement to be secured upon completion of pre-con activities;	March 2016	TBA

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Indicative	2 X 300 MW Coal-Fired Power Plant	Redondo Peninsula Energy, Inc.	Sitio Naglatore, Cawag, Subic Bay Freeport Zone	600	-Feasibility study completed; -Project Site is leased from the Subic Bay Metropolitan Authority; Amended ECC (3rd Amendment) secured last 15 November 2012; -The Connection Agreement has been finalized and initialed.Execution after completion of NGCP's review of the revised System Impact Study and Facilities Study prepared by RPE; -NGCP's application to ERC for approval of Transmission Asset has been completed and is currently awaiting decision. RPE's application to the ERC for the Connection Asset has been deemed sufficient in form and substance; -Revised System Impact GIS review by NGCP completed 10 May 2012; -Any further development dependent on Supreme Court decision on Writ of Kalikasan case; -Public consultations conducted in Subic on 29 June 2012; Engineering, Procurement and Construction (EPC) contract negotiations finalized; -Site preparation construction on-going, construction commenced on Q3 2013; -On-going financing arrangements; -Started discussions with the Manila Electric Company for sale of power; 52% owned by Meralco PowerGen Corp. (MPGC); -Target Commencement of Construction will be Dependent on Supreme Court decision on Writ of Kalikasan Case; -Project cost Php50B / $1.2B	Unit I - October 2016 Unit II - December 2016 (Target Commencement of Construction will be Dependent on Supreme Court decision on Writ of Kalikasan Case.)	Target Commercial Operation will be Dependent on Supreme Court decision on Writ of Kalikasan Case;
Indicative	2 X 150 MW SLPGC Coal-Fired Power Plant Phase II	Southwest Luzon Power Generation Corporation (Project Company)	Brgy. San Rafael, Calaca, Batangas	300	-Property is currently under Land Lease Agreement (LLA) between Sem-Calaca Power Corporation (SCPC) with PSALM; -On-going negotiations with prospective off-takes (DUs and those currently with PSAs and contestable market under Open Access Regime; -ACQUIRED Permits: SEC Registration - Aug 2011; ECC application approved 21 Oct. 2011; Issued COE for BOI on 11 March 2013 under the name of SLPGC; ECC application approved 21 Oct. 2011; -On-going securing other necessary permits; -On-going financing negotiations with prospective	Unit I - 2016 Unit II - 2016	2017

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					banks; -On-going negotiation with prospective EPC; -Target NTP - End of 2013; -Project cost for Phase II is Php19.864B		
Indicative	2 X 300 MW Masinloc Expansion	AES Masinloc Power Partners Co., Inc.	Zambales	600	-Feasibility studies completed 2011; -Grid Impact Studies obtained on 7 January 2011; -No additional land will be aquired as the expansion will be inside the existing Masinloc Power Plant Complex. NPC/PSALM, however, is still continuing the titling process and land registration for some parcels of land;ECC Amendment was released by DENR on April 23, 2012. -The amended DOE Certificate of Endorsement for BOI was released on May 7, 2012; -Secured CoE for ERC on September 2011; -On-going processing of Certificate of Precondition from NCIP; -SAPA amendment is still pending with DENR; -Selection of EPC Contractor on going; -Commencement of Construction:2nd Qtr 2014; -Undergoing consultation with international / local banks; -Project cost is Php49.45B	Unit 3 (300 MW) - October 2017 Unit 4 (300 MW) - October 2017	3rd Quarter of 2017
Indicative	1x300 MW Coal Power Plant	Lucidum Energy, Inc.	Silanguin Bay, Zambales	300	-The target date for the feasibility study is set by the end of October; -Arrangement fo Securing the Required Land: Lucidum have decided to purchase the land rather than to lease;Additional land area has been decided upon to be leased as right of way for the conveyor belt from the port; -Marketiing of Generating Facilities: Initial talks between Lucidum and respective DUs, large scale power consumers and cooperatives have been initiated; Several structures are being considered to comply with the PPA or commercial guarantees; -Permits and Other Regulatory Requirements: Complete corporate documentation for SEC and DOE Endorsement for SEC has been complied; On-going processing of other regulatory requirements, LGU permits, among others;Approval for the grid impact study has been obtained from the DOE to be submitted to NGCP;	June 2017	June 2017

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Financing Arrangements: Financing arrangements are currently negotiating with two lenders and they're waiting for the completion of the feasibility study for their validation; Initial talks have been geared towards a 60-40 debt-equity ratio; -Construction Contracts for Plants and Equipment are on hold pending the completion of detailed Engineering Studies; -Commencement of Construction will be based upon completion of the Feasibility Study and the Assessments of the financing companies involved; Project Cost is US$ 600,000,000.00		
Indicative	San Buenaventura Power Ltd. Co. (SBPL) Project	San Buenaventura Power Ltd. Co. (SBPL)	Mauban, Quezon	460	-Completed Selection Study in 2012;Coal Sourcing Study completed in 2012; -System Impact Study completed in 2007 and is being revalidated in 2013; Facility Study to be done in 2014; -Project will be located within the existing site; -Clearance to Underatake GIS from DOE issued on 7 March 2013; - 20 years + 5-year extension PSA with MERALCO as offtaker; Awaiting for the ERC approval of their PSA with MERALCO;SBPL has signed a PSA with Meralco on 29 May 2014; - No need for the additional transmission infra since they will be using the existing transmission infrastructure connected to QPPL; - Permits and Other Regulatory Requirements: ECC (Ref.Code 0610-012-4021) issued on 4 June 2007; ECC extension of validity issued on 31 May 2012 and valid until 4 June 2015; Reguest for Amendment to upgraded technology submitted to EMB on 18 June 2013; Additional information requested by EMB on 31 July 2013;QPL is in the process of preparing the documents;Secured Sanggunian Bayan Resolution No. 2014-269 endorsing the project to expand; -Financing arrangements under development; Financing arrangements is expected to be secured only after the ERC issues the final approval; -Owner's Engineer selected; EPIC bids received in November 2013; SIS completed in 2007 and is	March 2018	June 2018

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					being revalidated;Municipal LGU endorsement issued April 19, 2005; Award EPC contract estimate September 2013; -Commencement of Construction Target: end of 2014;Expect to commence construction only after the ERC issues the final approval;and will take 4 years to fully complete the construction of the plant; - ECC issued on 4 June 2007;ECC extension of validity issued on 31 May 2012 and valid until 4 June 2015; Request for Amendment to upgrade technology was submitted to EMB on 17 February 2014;Request to assign the ECC for new project was requested on 2 June 2014;Additional documentation submitted to EMB on 7 August 2014; -Certificate of Non-Overlap was issued by the NCIP to Quezon Power on 5 February 2014; Request to assign the CNO was endorsed by the DOE and submitted to the NCIP on 15 July 2014; -ERC application was filed on 2 June 2014; Financing arrangements is expected to be secured only after the ERC issues the final approval; -Project cost is Php37.8B		
Indicative	2 X 600 MW Mariveles Expansion Project	GNPower Mariveles Coal Plant Ltd. Co.	Mariveles, Bataan	1200	-On-going presentation/proposal submissions to potential customers; -Clearance to Underatake GIS from DOE issued on 26 June 2013; -Obtained LGU endorsements; BOI registration for 600 MW pre-approved;On-going SIS; -On-going EIS for ECC application; Arrangements for securing the required land will be acquired by an affiliate Filipino company of GNPower; -On-going negotiation with tenders; -On-going finalization of EPC Contract; Commercial operation by 2018; -Project cost is $1B	2018	2018
Indicative	2 x 600 MW (net) Coal-Fired Power Plant	Meralco PowerGen Corporation (Project Company: Atimonan One Energy	Atimonan, Quezon	1200	-On-going Feasibility Study; -On-going securing of ECC; -SEC already amended; - Acquisition of the parcels of the land in the target plant site in Atimonan, Quezon is on-going (expanding);	2019	2019

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Clearance to Underatake GIS from DOE issued on June 2014; -Ongoing discussion with LGU and there was no violent reaction from them on this proposed changes. -Discussion of PSA with potential off-takers on-going; Informal discussions have begun with several banks with respect to the financing of the project.; -Applied Certificate of Non-Overlap with National Commission on Indigenous Peoples (NCIP);No contracts have been awarded to date re: EPC; -The parties have yet to agree on when construction will commence; -On-going negotiations with lenders		
Indicative	300 MW Limay Power Plant Project Phase II (2x150MW)	SMC Consolidated Power Corporation	Brgy. Lamao, Limay, Bataan	300	-Completed Feasibility Study; - Final review and drafting of ECC was done last 16 August 2013 and expected to receive by end of August 2013; -Submitted System Impact Study last 12 July 2013, review of the report is still on-going; -Requirements for BOI will be submitted once ECC is release; Expected submission on 1st week of September 2013; -Agreement for the use of the land was entered between SMC Consolidated Power Corp and leasehold rights holder; On-going securing of other permits and other regulatory requirements; -SEC issued last 19 August 2011; - Site Development Target: 1) Handover of site for Unit 1 is 31 Oct. 2014;2) Handover of Site for Unit 2 is 28 February 2015;3) Target Date for Coal Yard for Phase 2 is 31 August 2015; -Transmission Target: New extra high voltage TL and SS should be ready by November 2016; -Land acquisition completed; -On-going electric power supply contract negotiation with prospective off-takers (DUs); -On-going negotiations for financing arrangements - securing project financing 70:30 Debt-equity ratio; -Awarded EPC to Formosa Heavy Industries (FHI); Issued NTP on 1 August 2014;Completed and	Unit 1 - December 2016 Unit II - May 2017	Unit 1 - December 2016 Unit II - May 2017

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					issued construction and supply contracts on EPC's inside batter limit (main equipment); Other main contracts for review and awarding (site development/land preparation, transmission connection, pier and jetty structure, fuel handling facilities an dother ancillaries, ash pond construction and water supply); -Target commencement of construction- Site development/Land preparation: 2 September 2013 (upon release of ECC), Start of Piling and Construction: 15 October 2013; -Date of Ground Breaking: 3rd Week of September 2013; -Project cost is Under Planning and Budget Review		
Indicative	600 MW Limay Power Plant Project Phase III (2x300MW)	SMC Consolidated Power Corporation	Brgy. Lamao, Limay, Bataan	600	-Completed Feasibility Study; - Final review and drafting of ECC was done last 16 August 2013 and expected to receive by end of August 2013; -Submitted System Impact Study last 12 July 2013, review of the report is still on-going; -Requirements for BOI will be submitted once ECC is release; Expected submission on 1st week of September 2013; -Agreement for the use of the land was entered between SMC Consolidated Power Corp and leasehold rights holder; On-going securing of other permits and other regulatory requirements; -SEC issued last 19 August 2011; -Land acquisition completed; - Site Development Target: 1) Handover of site for Unit 1 & 2 is December 2015 -Transmission Target: New extra high voltage TL and SS should be ready by November 2016; -On-going electric power supply contract negotiation with prospective off-takers (DUs); -On-going negotiations for financing arrangements - securing project financing 70:30 Debt-equity ratio; -Completed and issued construction and supply contracts on EPC's inside batter limit (main equipment); Other main contracts for review and awarding (site development/land preparation,	Unit 1 - October 2017 Unit II - December 2017	Unit 1 - October 2017 Unit II - December 2017

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					transmission connection, pier and jetty structure, fuel handling facilities an dother ancillaries, ash pond construction and water supply); -Target commencement of construction- Site development/Land preparation: 2 September 2013 (upon release of ECC), Start of Piling and Construction: 15 October 2013; -Date of Ground Breaking: 3rd Week of September 2013; -Project cost is Under Planning and Budget Review		
	OIL			**150.00**			
Indicative	Aero Derivative Combined Cycle Power Plant	Calamba Aero Power Corporation	Calamba, Laguna	150	-On-going securing of permits and other regulatory requirements; -Granted clearance by DOE for the conduct of GIS; -Project cost is Php5.67B	TBA	TBA
	NATURAL GAS			**3,715.00**			
Indicative	2 x 1,200 MW Combined Cycle Gas Turbine Power Plant Project	Atlantic, Gulf and Pacific Company of Manila, Inc	Limay, Bataan (PNOC-AFC Industrial Estate)	2,400	-On-going Feasibility Study; Secured Clearance to Undertake GIS from DOE on 3 June 2013; -Awaiting for review and approval of conversion of PNOC ECC from Petro Chemicals to LNG for Power ; -AG&P has made major financial commitments to the development of the new power plant project at Bataan which includes expert third parties to provide: (i) market data for electricity; (ii) technical feasibility and initial design studies for the project development; (iii) environment support and permitting and (iv) market study on LNG supplies; -Details of off-takers for electricity are still being considered	Unit 1 - March 2017 Unit II - March 2018	Unit 1 - October 2017; Unit 2: October 2018
Indicative	415 MW San Isidro Combined Cycle Gas Turbine Plant Project	Trans Asia Oil and Energy Development Corporation (TAOil)	Pilipinas Shell Petroleum Co.'s Tabangao Refinery, Brgy. San Isidro and Tabangao-Ambulong, Batangas City	415	-Development of the LNG Import Terminal shall be done by Shell; - Work on the CCGT development by TAOil is proceeding; -TAOil and its Consultants is performing a Feasibility and Pre-Engineering Study; -Clearance to Underatake GIS from DOE issued on 24 September 2013; -The process to obtain an Environmental Compliance Certificate from the DENR, and a Grid Impact Study is currently underway;	September 2017	Third Quarter of 2017

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Will operate as both a Merchant and Contracted power facility. Hence, electricity produced will be sold to both to the WESM and thru long term bilateral contracts. TAOil will be the sole marketer of electricity generated from this power facility;		
Indicative	2x450 San Gabriel Power Plant (Phase II) 2x450 San Gabriel Power Plant (Phase II)	First Gen Corproration	San Gabriel, Batangas	900	-On-going Feasibility Study; -Secured Clearance from DOE for the conduct of GIS on 18 February 2013 ;	1st Unit-2017 2nd Unit-2019	1st Unit-2017 2nd Unit-2019
	GEOTHERMAL			**120.00**			
Indicative	Tanawon Geothermal Project	Energy Development Corporation	Guinlajon, Sorsogon	40	-On-going Feasibility Study; DOE Service Contract within GRESC # 2009-10-003; -LGU endorsement, Land Use Permits, DENR-ECC, and Water Rights obtained; -Turnkey Contract pending result of feasibility study; project finance preparation on-going; -Project cost estimated $200M	December 2016	December 2016
Indicative	Rangas Geothermal Project	Energy Development Corporation	Bacon District, Sorsogon	40	-On-going Feasibility Study; DOE Service Contract within GRESC # 2009-10-003; -LGU endorsement, Land Use Permits, and DENR-ECC obtained; Permits for the TCP and Water Rights are on-going;Turnkey Contract pending result of feasibility study; -Project financing pending result of feasibility study; - Target commencement of construction on 1st half of 2015; -Project cost is sibject to the result of the feasibility study	June 2017	June 2017
Indicative	Kayabon Geothermal Project	Energy Development Corporation	Manito, Albay	40	-On-going Feasibility Study; DOE Service Contract within GRESC # 2009-10-003; -LGU endorsement, DENR-ECC, and Water Rights obtained; -On-going application for land-use permits and negotiations with lot owners; -On-going application for SLUP and TCP permits; -Target commencement of construction on 2nd half of 2017; -Clearance to Underatake GIS from DOE issued on 7 October 2011;	December 2019	December 2019

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Project cost is subject to the result of feasibility study		
	HYDROPOWER			**121.56**			
Indicative	Ibulao Hydroelectric Power Project	Hydrocore, Inc.	Lagawe, Ifugao	4.5	-Issued Confirmation of Commerciality on 26 June 2013; -Already secured LGU Endorsements, DENR Environmental Compliance Certificate, NCIP Certificate of Precondition, and NWRB Permit. Also submitted Feasibility Study, Detailed Engineering Design and 5-Yr Work Plan and Grid Impact Study; -Clearance to Underatake GIS from DOE issued on 17 October 2011; -On-going construction (Pre-construction - 100%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ;	May 2015	May 2015
Indicative	Dupinga Hydroelectric Power Project	Constellation Energy Corporation	Gabaldon, Nueva Ecija	3	-Issued Confirmation of Commerciality on 26 June 2013; -Already secured LGU Endorsements, DENR Environmental Compliance Certificate, NCIP Certificate of Compliance, and NWRB Permit. Also submitted Feasibility Study and 5-Yr Work Plan; -Submission of lacking requirements e.g. permits in progress; -Construction Progress (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ; -On-track with the schedule with regards to the permitting;	October 2015	October 2015
Indicative	Main Aklan	Sunwest Water & Electric Co., Inc.	Libacao, Albay	15.0	-Issued Confirmation of Commerciality on 19 September 2013; -Clearance to Underatake GIS from DOE issued	July 2016	July 2016

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					on 25 March 2013; -Submission of lacking requirements e.g. permits in progress; -Construction Progress (Pre-construction - 0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014		
Indicative	Tinoc 1	Quadriver Energy Corp.	Tinoc, Ifugao	4.1	-Issued Confirmation of Commerciality on 09 August 2013; -Already secured LGU Endorsement, DENR ECC, NWRB Permit and NCIP Clearance. Submitted Feasibility Study, Detailed Engineering Design and 5-Yr Work Plan; -Clearance to Underatake GIS from DOE issued on 11 July 2011; -Construction Progress (Pre-construction - 0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014	April 2018	April 2018
Indicative	Tinoc 2	Philnew Hydro Power Corporation	Tinoc, Ifugao	11.0	-Issued Confirmation of Commerciality on 06 January 2014; -Submission of lacking requirements e.g. permits in progress; -Clearance to Underatake GIS from DOE issued on 11 July 2011; -Construction Progress (Pre-construction - 0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014	December 2016	December 2016
Indicative	Tinoc 3	Philnew Hydro Power Corporation	Tinoc, Ifugao	5.0	-Issued Confirmation of Commerciality on 06 January 2014; -Submission of lacking requirements e.g. permits in progress; -Clearance to Underatake GIS from DOE issued on 11 July 2011; -Construction Progress (Pre-construction - 0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014	June 2017	June 2017
Indicative	Tinoc 4	Philnew Hydro Power Corporation	Tinoc, Ifugao	5.0	-Issued Confirmation of Commerciality on 09 August 2013; -Submission of lacking requirements e.g. permits in progress; -Clearance to Underatake GIS from DOE issued on 11 July 2011; -Construction Progress (Pre-construction - 0%, Construction-0%, Interconnection-0%) completed	April 2018	April 2018

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					as of 30 September 2014		
Indicative	Pinacanauan	Sunwest Water & Electric Co., Inc.	Peñablanca, Cagayan	6.0	-Issued Confirmation of Commerciality on 18 September 2013; -Already secured LGU Endorsement, DENR ECC, NWRB CWP and NCIP CNO. Submitted Feasibility Study, Detailed Engineering Design and 5-Yr Work Plan; -Clearance to Underatake GIS from DOE issued on 25 March 2013; -Construction Progress (Pre-construction - 0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014	July 2017	July 2017
Indicative	Colasi	Colasi Mini Hydro Electric Power Plant Corporation	Mercedes, Camarines Norte	1.0	-On-going rehabilitation; -Submission of lacking requirements e.g. permits in progress; -Clearance to Underatake GIS from DOE issued on 3 December 2012;	February 2019	February 2019
Indicative	Majayjay	Majayjay Hydro Power Company, Inc.	Majayjay, Laguna	2.2	-Submission of lacking requirements e.g. permits in progress;	April 2019	April 2019
Indicative	Biyao	AV Garcia Power Systems Corp.	Balbalan, Kalinga	0.8	-Issued Confirmation of Commerciality on 01 August 2014; -Submission of lacking requirements e.g. permits in progress; -Construction Progress (Pre-construction - 0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014	To be determined	To be determined
Indicative	Kapangan HEP	Cordillera Hydro Electric Power Corporation (COHECO)	Kapangan & Kibungan, Benguet	60.0	-Issued Confirmation of Commerciality on 13 February 2014; -Submission of Lacking requirements e.g. permits in progress; -Clearance to Underatake GIS from DOE issued on 3 December 2012; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014	To be determined	To be determined
Indicative	Abdao HEP	AV Garcia Power Systems Corp	Tabaan Sur, Tuba, Benguet	1.0	-Issued Confirmation of Commerciality on 5 September 2014; -Submission of Lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed	To be determined	To be determined

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					as of 30 September 2014		
Indicative	Barit (Irrigation Discharge) Hydroelectric Power Project	NASCENT Technologies Corporation	Buhi, Camarines Sur	0.4	-Issued Confirmation of Commerciality on 24 September 2014; -Submission of Lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014	To be determined	To be determined
Indicative	2.6 MW Maapon River Mini-Hydro Power Project (MHP)	Renesons Energy Corporation	Brgy. Piis, Lucban, Quezon	2.6	-DOE issued Certificate of Endorsement for CoC on May 2014	To be determined	To be determined
	SOLAR			**55.50**			
Indicative	Currimao Solar Photovoltaic Power Project	Mirae Asia Energy Corporation	Currimao, Ilocos Norte	20	'-Awarded with Solar Energy Service Contract (SESC No. 2012-08-020) on 19 Sept 2012; -Secured Memorandum of Agreement with Provincial Government of Ilocos Norte for the utilization of the land; Completed feasibility study; Conducted Third Party SIS, currently under review by NGCP; Acquired ECC from DENR, CNO from NCIP, Provincial, Municipal and Barangay Resolutions of Support, EPC Contract with LG CNS Co. Ltd., and proofs of negotiations/certifications with financial institutions for project financing; -Secured Clearance from DOE for the conduct of GIS on 11 October 2012; -Conducted Groundbreaking Ceremony on Nov 2012; - Acquired the DOE -Certificate of Confirmation of Commerciality on 12 Jul 2013; -On-going construction; Construction Stage as of 30 September 2014(Pre-Construction -25% completed, Construction-0% completed, Interconnection - 0% completed); -Issued Confirmation of Commerciality on 12 July 2014; -Pre-construction stage 25 % completed as of 31 March 2014; -On-going negotiations for project financing; -Total project cost is US$51.9Million	March 2015	March 2015
Indicative	SM North Edsa Solar Power Project	Solar Philippines Commercial Rooftop Projects, Inc	SM North Edsa, Quezon City	1.5	-Awarded with Solar Energy Service Contract (SESC No. 2014-04-072) on 15 April 2014; -Filed Declaration of Commerciality on 01 August	March 2015	March 2015

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					2014 (under evaluation);		
Indicative	Burgos Solar Power Project	Energy Development Corporation	Burgos, Ilocos Norte	4	-Awarded with Solar Energy Service Contract (SESC No. 2014-07-088) on 06 August 2014; -Filed Declaration of Commerciality on 29 August 2014 (under evaluation);	July 2015	July 2015
Indicative	Macabud Solar Photovoltaic Power Project	ATN Philippines Solar Energy Group, Inc.	Brgy. Macabud, Rodriguez, Rizal	30	'-Awarded with Solar Energy Service Contract (SESC No. 2011-05-002) on 12 May 2011; -Secured NGCP Review of Third Party SIS, ECC from DENR, CNO from NCIP, Provincial Resolution of Support, clearances from Land Registration Authority and DAR, EPC Contract, and proofs of negotiations/certifications with financial institutions for project financing; -Completed feasibility study; -Acquired the DOE Certificate of Confirmation of Commerciality on 27 Jun 2013; -On-going construction; Construction Stage as of 30 September 2014(Pre-Construction -80% completed, Construction-0% completed, Interconnection - 0% completed); -Clearance to Underatake GIS from DOE issued on 17 October 2011; -On-going negotiations or connection agreement, project financing, ROW, and PPA with MERALCO in the absence of REPA; -On-going negotiations for project financing, connection agreement and ROW; - Facility Study is under review by NGCP; DIS/DAS with MERALCO is on-going; -Negotiations for financial closing is on-going; Pre-construction 65% completed as of 31 March 2014; -Total project cost is US$70.0 Million	February 2016	February 2016
	WIND			**249.00**			
Indicative	Balaoi Wind Power Project	Northern Luzon UPC Asia Corporation	Brgy. Balaoi, Pagudpud, Ilocos Norte	45	'-Awarded with Wind Energy Service Contract (WESC No. 2010-02-038) on 1 Feb 2010; Conducted detailed wind resource assessment; -Completed detailed feasibility atudy; -Acquired various LGU permits and resolutions of support, NCIP Certificate of Non-Overlap on 15 Jan 2007, Forest Landuse Agreement with DENR	September 2015	September 2015

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					on 20 May 2009, DENR Environmental Compliance Certificate on 23 Jul 2009, DPWH Road Right-of-Way for T/L construction, and CAAP Height Clearance permit; -Final Report of SIS and Connection Agreement with NGCP secured on 4 Jan 2011; BOI Registered on 23 Jun 2011; -Submitted proofs of negotiations/certifications from banks for project financing; - Acquired DOE Certificate of Confirmation of Commerciality on 02 December 2013; -On-going construction - 17.33% as of 30 September 2014; Construction Stage as of 30 September 2014(Pre-Construction - 52% completed, Construction of Wind Farm-0%, Interconnection Facilities - 0%); Construction shall commence upon completion of Caparispisan Project; -Development works shall commenced upon completion of Caparispisan Project; -Acquired DOE Certificate of Confirmation of Commerciality on 02 December 2013; -Financial Closing - 10% completed as of 3 September 2014 (Project substantially permitted but funders will require clarity on Feed-in-Tariff installation targets before committing funding); -EPC, O&M, Owner's Engineer Contract/Agreement: 30% completed as of 3 September 2014; -Connection Agreement:NGCP is conducting SIS prior to signing of Connection Agreement; -Land Rights Acquisition for WTG or PV, Access Road, and TL:10% ompleted as of 3 September 2014 (all land rights secured through Flags and private agreements); -Overall Accomplishments: 16.67% completed as of 31 August 2014; -Total project cost is US$139.5Million		
Indicative	Phase 1: Pasuquin East Wind Power Project	Energy Logics Philippines, Inc.	Pasuquin, Ilocos Norte	48	-Awarded with Wind Energy Service Contract (WESC No. 2009-09-001) on 14 Sept 2009; - Acquired Forest Land-Use Agreement with DENR; -On-going wind resource assessment; Completed	October 2015	October 2015

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					the feasibility study; Acquired various LGU permits and resolutions of support; - ECC secured 15 Jun 2010; - GIS secured Dec 2010; On-going negotiation with the Dept. of National Defense for the clearance to construct wind farm within the vicinity of Pasuquin Radar Station; - Equity Investors committment secured; Selected Preferred EPC Turn-key Tenderer for both the wind energy farm and the connection assets; Submitted the Declaration of Commerciality (DOC) with incomplete documentary requirements; -The DOE is waiting for the final Work Plan of the project for further evaluation; -On-going negotiations for project financing and acquisition of TL-ROW as per Workplan; - Acquired DOE Certificate of Confirmation of Commerciality on 02 December 2013; -Negotiation for financial closing is on-going -On-going construction; Construction Stage as of 30 September 2014(Pre-Construction - 39% completed, Construction-0%, Interconnection-0%);On-going negotiation for project financing and acquisition of TL-ROW as per Work Plan; - Project cost is Php6.048B;		
Indicative	Sembrano Wind Power Project (Formerly: Phase 2: Mabitac Wind Power Project)	Alternergy Sembrano Wind Corporation	Mt. Sembrano, Mabitac, Laguna	72	'-Acquired DOE Certificate of Confirmation of Commerciality on 13 February 2014; -Amended the Contract Area and assigned partially to Alternergy Sembrano Wind Corporation ASWC-WESC No. 2009-09-018-AP2 on 27 February 2014; -Under the same contract area of WESC No. 2009-09-018; -On-going wind resource assessment; Acquired various LGU permits and resolutions of support; -AWOC to finance the implementation of the project with 100% equity; -Interconnection Agreement with MERALCO last 1 March 2012; -EPC and O&M Contract with consortium of Nordex SE and McConnell Donnell last 11 July 2012; -Project Finance Term Sheet with Bank last 27	April 2017	April 2017

Annex 10. Private Sector Initiated Power Projects in Luzon (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					July 2012; Negotiation for financial closing is on-going; -Final review of GIS by NGCP last 31 July 2012; -On-going construction; Construction Stage as of 30 September 2014(Pre-Construction - 22% completed, Construction-0%, Interconnection-0%); -On-going completion of Pre-construction activities including financial closing Work Plan; -Amended the Contract Area and assigned partially to Alternergy Sembrano Wind Corporation ASWC-WESC No. 2009-09-018-AP2 on 27 February 2014 - Project cost is Php7.056B; -Acquired DOE Certificate of Confirmation of Commerciality on 13 February 2014; -Negotiations for financial closing is on-going;		
Indicative	Pagudpud Wind Power Project	EDC Pagudpud Wind Power Corporation	Brgy. Balaoi and Caunayan, Pagudpud, Ilocos Norte	84	-Awarded with Wind Energy Service Contract (WESC No. 2010-02-040) on 19 Feb 2010; -On-going construction; Construction Stage as of 30 September 2014(Pre-Construction - 20% completed, Construction-0%, Interconnection-0%); -Construction shall commence upon completion of Burgos Project; -Conducted detailed wind resource assessment; -Completed detailed feasibility study; -Acquired various LGU permits and resolutions of support, DENR Environmental Compliance Certificate; - Acquired DOE Certificate of Confirmation of Commerciality on 13 June 2014	December 2018	December 2018
	BIOMASS			**18.00**			
Indicative	20 MW Waste-to-Energy Project using Thermal Gasifier Conversion	CJ Global Green Energy Philippine Corp.	Camarines Sur	18	-Financially Closed; -For construction;	December 2015	December 2015

Total Indicative Rated Capacity: 10,629.06

Source: DOE

Annex 11. Private Sector Initiated Power Projects in Visayas (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	COAL			**352.00**			
Committed	2 X 135 MW Concepcion Coal-fired Power Plant Phase 1-135MW (1st Unit) Phase 2-135MW (2nd Unit)	Palm Thermal Consolidated Holdings Corp.	Brgy. Nipa, Concepcion, Iloilo	270	-Financial Arrangement Secured : Done on 24 July 2013; -Secured Clearance from DOE for the conduct of GIS on 14 June 2012 ; -SIS Report approved by NGCP on 17 July 2012; -Secured the Appraisal report for the PPA/MLA from the DENR Regional Director; -Commencement of Construction for 1st Unit on 18 July 2013; 2nd Unit on September 2014 (specific dates for the 2nd unit will still firmed up after 1st unit's commencement of construction) ; -Offtaker: Signed Electric Power Purchase Agreements (EPPA) with VRESCO (5MW) - 14 Nov. 2012, NOCECO (10MW)- 31 Jan. 2013, NORECO(1 MW)- 13 Feb. 2013, CENECO (22.6MW) on 11 March 2013, PECO(10MW) on 20 May 2013, AKELCO (12MW) on 22 Aug. 2013, and CAPELCO (2MW) on 5 Sep. 2013; -Ground breaking of construction on 15 Jan. 2013; - Commencement of Construction -1st Unit -18 July2013,2nd Unit (specific dates for the 2nd unit will still be firmed up later; - Procurement of power plant's major equipment has been completed; Manufacturing of equipment is ongoing; -Construction as of 31 May 2014; Scope of Works: a. Plant Site - 80%; b. Coal Yard-70%; Piling Works: a. Boiler Area-100%;b.Electrostatic Precipitator-88.50%;Transmission Facility-a. Geological and Technical Investigation-100%;b.Route and Parcellay Survey-95%;c. Right-of-Way Acquisition-c.1. No. of Tower Sites Acquired 138 kV-66%;69 kV-51%;c.2. No. of In Between Towers Acquired 138 kV-30.80%;69 kV-29.30%;Awarded the Transmission Line and Substation Project to TBEA Shenyang; Contract was signed on 17 July 2014; - DOE Endorsement for NCIP for Unit 1 issued on 3 June 2014; -Project cost is Php26.356B	1st Unit - 3rd Quarter of 2015 2nd Unit - May 2016 to September 2016 (specific dates for the 2nd unit will still be firmed up after 1st unit's commencement of construction)	1st Unit - 2nd Quarter of 2016 2nd Unit - November 2016 (specific dates for the 2nd unit will still be firmed up after 1st unit's commencement of construction) ;

Annex 11. Private Sector Initiated Power Projects in Visayas (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Committed	TPC Coal-Fired Power Plant Expansion Project (1 x 82 MW Coal-Fired Power Plant	Toledo Power Company	Toledo City, Cebu	82	-Financial Arrangement Secured: Loan agreement with Banks in place, financial close on 07 March 2013 (70% Loan / 30% Equity) ; -Secured Clearance from DOE for the conduct of GIS on 3 March 2011 ; -ECC issued last 28 August 2012; -BOI-Certificate of Registration No. 2012-225 last 23 October 2012; -On-going construction (as of April 2014 - 90.2% completed); -Groundbreaking on 11 November 2012; -Project fee is Php10.17B	October 2014	December 2014
	GEOTHERMAL			**50.00**			
Committed	Nasulo Geothermal Project	Energy Development Corporation	Nasuji, Valencia, Negros Oriental	50	-Financial Arrangement Secured; to be financed by EDC (100% equity); -Undergoing reliability run (as part of testing and commissioning activities) -Secured Clearance from DOE for the conduct of GIS on 21 November 2011 ; -Certificate of Commerciality and Certificate of Additional Investment obtained; DOE Service Contract within GRESC # 2009-10-002; LGU endorsement, Land Use Permits, DENR-ECC, and Water Rights obtained; -Start of construction- January 2013; Start of Reliability Test on May 2014; -On-going construction started on Jan 2013; -Groundbreaking on 11 November 2012; -Project accomplishment:Phase 1 (civil works) - 99.34%; Phase 2 (Electromechanical works) - 99.32%; -Project cost $91M	October 2014	October 2014
	HYDROPOWER			**16.00**			
Committed	Villasiga HEP	Sunwest Water & Electric Co., Inc.	Brgy. Igsoro, Bugasong, Antique	8	-Financial Arrangement Secured from Bank; -Various permits obtained (Water Permit last 19 Februaru 2010, Reconnaisance Permit, ECC last 8 July 2010, BOI last 24 November 2010 and DOE Hydropower Service Contract last 1 February 2010); -Already secured LGU Endorsements, DENR Environmental Compliance Certificate; -Submitted feasibility study, detailed engineering design and 5-Year Work Plan;	September 2014	September 2014

Annex 11. Private Sector Initiated Power Projects in Visayas (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Off-taker: Energy Sales Agreement with Antique Electric Cooperative; -Project cost Php1.4B - Construction is 98% complete as of 11 June 2014; - Project cost Php1.4B		
Committed	Cantakoy	Quadriver Energy Corp.	Danao, Bohol	8.0	-Financial Arrangement Secured; -Secured Clearance from DOE for the conduct of GIS on 11 July 2011 ; -Construction was on-hold due to conflict with LGU	June 2017	June 2017
	SOLAR			**9.00**			
Committed	San Carlos Solar Photovoltaic Power Project	San Carlos Solar Energy Inc.	San Carlos City, Negros Occidenta	9.00	-Financial Arrangement Secured:100% equity financed; -Awarded with Solar Energy Service Contract (SESC No. 2013-09-037) on 30 October 2013; -Acquired ECC from DENR, Municipal and Barangay Resolutions of Support, Lease Agreements with land owners, and EPC Contract with Conergy and Schema Konsult, Inc.; -Submitted a photocopies of Subscription Agreement dated 02 May 2013 for a total amount of USD48.2Million between SACASOL and its sponsor, Thomaslloyd Cleantech Infrastructure Fund Gmbh, with the corresponding Notes issued amounting to USD1.9MM; - Acquired the DOE Certificate of Confirmation of Commerciality on 03 March 2014; -Secured Clearance from DOE for the conduct of GIS on 25 June 2013 ; -Acquired NGCP System Impact Study , approved Facility Study and Connection Agreement; -Inaguration of Sacasol 1 - 15 May 2014 -Construction Stage as of 30 September 2014 (Pre-construction-100% completed,Construction of Solar Farm-100% completed, Interconnection - 100% completed); -Obtained System Impact Study from NGCP; -Phase A was successfully commissioned and started commercial operation on 15 May 2014; -Total project cost is US$43.1Million;	Phase 2 - August 2014	Phase 2 - August 2014 (Phase B successfully commissioned and already started commercial operation on 16 August 2014

Annex 11. Private Sector Initiated Power Projects in Visayas (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	WIND			**104.00**			
Committed	Nabas Wind Power Project	Petrogreen Energy Corporation	Brgy. Pawa, Nabas, Aklan	50.00	-Financial Arrangement Secured: Submitted a certification dated 31 August 2012 from its Lead Arranger, ensuring the required financing is already available if needed; -Awarded with Wind Energy Service Contract (WESC No. 2009-09-002) on 14 Sept 2009; -Conducted detailed wind resource assessment; -Completed final feasibility study on Aug 2012; -Secured Clearance from DOE for the conduct of GIS on 16 September 2011 ; -SIS Final Report from NGCP dated 1 Oct 2012; -Acquired ECC from DENR dated 4 Jun 2012; -Acquired CNO from NCIP; secured Barangay, Municipal, and Provincial Resolutions of Support; EPC Contract with EEI Corp. secured 31 Jul 2012; -Heads of Agreement with AKELCO for T/L construction secured 28 Nov 2012; - Acquired the DOE Certificate of Confirmation of Commerciality on 31 May 2013; -On-going construction as of 30 September 2014 (Pre-construction -98% completed, Construction - 20% completed, Interconnection - 69% completed) ; -On-going land rights acquisition for WTG Foundations, access roads, and civil works on access roads; -Total project cost is US$118.44M;	Phase 1 (36 MW) - January 2015 Phase 2 (14 MW) -3rd Quarter 2015	Phase 1 (36 MW) - January 2015 Phase 2 (14 MW) -3rd Quarter 2015
Committed	54 MW San Lorenzo Wind Power Project (8 MW & 46 MW)	Trans-Asia Renewable Energy Corporation	San Lorenzo, Guimaras Island	54	-Financial Arrangement Secured on 12 December 2012 (30% equity and 70% debt); -Awarded with Wind Energy Service Contract (WESC No. 2009-10-009) on 23 Oct 2009; -Conducted detailed wind resource assessment; -Completed feasibility study; -Secured various LGU permits and Resolution of Support; Secured ECC permit for the wind farm on 19 February 2010;Secured NCIP Certificate of Non-	December 2014	December 2014

Annex 11. Private Sector Initiated Power Projects in Visayas (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					Overlap on 23 July 2010;Secured System Impact Study Final Report from NGCP;Secured ECC for the construction of overhead T/L on 14 May 2012;Secured ECC for the upgrading of Iloilo-Guimaras Submarine Cable on 14 May 2012; Secured CAAP Height Clearance for 27 Wind Turbine Generators; Secured DPWH Right-of-Way permit for overhead T/L;Secured Contract to Lease/Sell from land owners;Turnkey EPC Contract awarded to Kanetmatsu in November 2012;- -Acquired DOE Certificate of Confirmation of Commerciality on 16 May 2013; -Conducted Groundbreaking Ceremony on 30 June 2013; -On-going construction as of 30 September 2014 (Pre-Construction - 100% complete, Construction - 33% complete, Interconnection -77% complete; - Installation of WInd Turbine Generator (WTG) sets: 20%; On-going land rights acquisition for WTG Foundations, access roads, and civil works on access roads; Erected 350 out of 383 poles for overhead TL; On-going testing of Iloilo-Guimaras Submarine Cable;On-going stringing of overhead TL; -Total project cost is US$140.9Million;		
	BIOMASS			**55.00**			
Committed	46 MW Universal Robina Corporation Bagasse Cogeneration Facility	Universal Robina Corporation	Kabankalan,Negros Occidental	31.00	-Financial Arrangement Secured; - BREOC No. 2013-11-040; -Issued Certificate Confirmation of Commerciality on 24 April 2014; -On-going construction: Project Progress as of 30 September 2014: Pre-construction: 100%; Construction:34%;Interconnection:73%) -On-going construction as of 31 May 2014 (Overall Accomplishment - 45% completed) - a.Power House Structural and Civil Works; b. Steam Turbine Generator House Structural Works; c. Boiler House Structural and Civil Works; d. Cooling Tower Foundation Works; e. Transmission Facility -Clearance to Underatake GIS from DOE issued on18 October 2013;	Phase 1 (16MW) - December 2014 Phase 2 (30 MW) - December 2014	Phase 1 (16MW) - December 2014 Phase 2 (30 MW) - December 2014
Committed	20 MW SCBiopower Bagasse-Fired Power	San Carlos Biopower Inc.	Negros Occidental	18.00	-Financial Arrangement Secured; -On-going site development;	December 2015	December 2105

Annex 11. Private Sector Initiated Power Projects in Visayas (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	Generation Project				-Various permits permits obtained (ECC,LGU Endorsement, Land Use Perit, etc); -Has EPC; -SEC secured 29 July 2009; -ECC secured 28 June 2011; -Secured Clearance from DOE for the conduct of GIS on 22 June 2011 ; -GIS completed 4 June 2012; -EPC signed 10 Aug. 2012; -Commencement of construction on Dec. 2012; -Scope of Work completion: - Admin Building - 46.48%; Construction of Temporary access road-24.56%;Site Development for Warehouse, elctrical & machine shop - 87.14%;Site Development for Fuel Shed No.2 - 27.56%; Installation of WInd Turbine Generator-20%; -Project cost is $3.5B		
Committed	12 MW HPCo Bagasse Cogeneration Plant	Hawaiian Philippines Company	Silay City, Negros Occidental	3.00	-Financial Arrangement Secured; -BREOC No. 2013-02-029; -Issued Certificate Confirmation of Commerciality on 22 January 2014; -Constructing sub-station and transmission line going to NGCP; -Secured Clearance from DOE for the conduct of GIS on 25 March 2013 ; -Declared Capacity is 8MW but will be exporting 3 MW to the grid; -Issued Declaration of Commerciality on 22 January 2014; -100% Constructed (Operating for Own-Use); -Project Status as of 30 September 2014: Pre-construction 100%, Construction-93%, Interconnection-15%; -Construction of Interconnection Facility is targeted at 3rd week of September 2014; -Completion fate of Transmission Line still depends on the issuance of SIS from NGCP; Will only start construction upon the release/issuance of the SIS; -Increased capacity from 8MW to 12MW as per amendment of BREOC No. 2013-02-029 which took effect on 9 June 2014; -Operating for Own-Use on October 2013;	November 2014	November 2014

Annex 11. Private Sector Initiated Power Projects in Visayas (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Committed	34 MW VMCI Bagasse-Fired Cogeneration Plant	Victorias Milling Company Inc.	Negros Occidental	3.00	-Financial Arrangement Secured; -Secured Clearance from DOE for the conduct of GIS on 29 May 2013 ; -Approved SIS on Sept 2014; -Amended Capacity from 2MW to 3MW on 4 September 2014; -Operating for Own-Use;	--	--

Total Committed Rated Capacity: 586.00

Source: DOE

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	COAL			**470.00**			
Indicative	PEDC Expansion Project Former report (1x150 MW Circulating Fluidized Bed (CFB) Coal-Fired Power Plant)	Panay Energy Development Corporation (Global Business Power Corporation)	Brgy. Ingore, La Paz, Iloilo	150	-Estimated Net Capacity: 130MW, Estimated Household: 120MW; -The target date for the start of the expansion project will be on on October 2013 and is expected to be completed in thirty three (33) months.GBPC is currently in the process of securing the Environmental Compliance Certificate (ECC) which is expected to be released by the end of July 2013; -Notice to Proceed (NTP) for the construction will be issued to the contractor as soon as the ECC will be released; - Ongoing negotiation with probable customers in Panay; -Securing necessary permits; secured clearance from DOE for the conduct of GIS for 82MW on 3 March 2011; -Project cost is Php6.199B.		
Indicative	1 X 20 MW FDC Danao CFB Coal Power Plant	FDC Utilities, Inc.	Danao City, Cebu	20	-Clearance to Underatake GIS from DOE issued on 17 October 2011; -Grid Impact Studies completed; -Technical and Financial Study completed; -Completed Lease Agreement with land owner signed;Signed supply contract with franchised electric cooperatives; -On-going securing of regulatory requirements and ECC; -Other required permits and endorsement to be secured upon completion of pre-con activities; -Other permits under process; EPC Contractor: Formosa Heavy Industrries (FHI); Coal Supply - Semirara & Indonesian Coal; -Ongoing financing arrangements;Selection of EPC Contractor Ongoing; -Project cost is Php1.512B		
Indicative	300 MW Therma Visayas Energy Project	Therma Visayas Inc.	Brgy. Bato, Toledo City, Cebu	300	-Site feasibility tests to be completed by September 2012; -Done with the arrangement for securing the required land except for the remaining 2% of project site; -On-going discussions with target off-takers; -On-going securing of permits and other regulatory requirements; - On-going processing of the Certificate of Non-		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					Overlap (CP/CNO) from the National Commission on Indigenous Peoples -ECC issued last May 2013; -BOI registered and GIS study approved; Acquisition of the parcels of the land in the target plant site is on-going; -Self-funded with on-going negotiations with financing institutions; -Tendering of EPC on-going; -Clearance to Underatake GIS from DOE issued on 16 June 2012; -Site development works to start by November 2014; -Project cost is Php23B		
	OIL			18.90			
Indicative	18.9MW Calumangan Diesel Power Plant	Energreen Power Development & Management, Inc.	Brgy. Calumangan, Bago City, Negros Occidental	18.9	-Feasibility Study:(1)Topographic Survey-June 2012;(2)Soil Boring Test-July 2012;Environmental Impact Assessment Study-Sept.2012; -Arrangement for Securing the Required Land: Purchased 6.9 hectares land in Brgy. Calumanggan, Bago City. The diesel plant will occupy 2 hectares: -Marketing of Generating Capacities: CENECO and Energreen Power has a signed Amended Memorandum of Agreement and Supplementary Agreement for Peaking and Reserve Services to be embedded in the distribution system of CENECO; -Permits and Other Regulatory Requirements: DENR ECC-R6-1305-0174-4220 dated 21 Nov.2013; DOE COE No. 2013-09-001 dated 19 September 2013;Brgy. Calumangan Endorsement per Brgy. Reso No. 2012-12 dated 1 September 2012; -Financing Arrangements: 65% Debt and 35% Equity; -Construction Contracts for Plants and Equipment: Supplier of main quipment will be an established HFO Power Plant supplier from China; Energreen's owner engineer would be ENgcon Energy of Singapore; Commencement of Construction: Civil Works Site - Dec 2013; Power House-16 May to 15 Oct. 2014;CT % Other Pump Bldg. Facility -6 July to 25 Oct 2014;HFO Treatment Bldg. Facility - 11 Aug. to 25 Sept. 2014;Feul Farm Facility-6 nJuly to 25 Sept. 2014;Maintenance Bldg. Facility 16 June t0 30 Sept.		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					2014;Raw Water System Source-16 Aug. to 5 Oct. 2014;Power Grid Integration-6 July to 20 Oct. 2014;Generation Facility Installation - 5 Aug to 30 Dec 2014;Site Raw Water and Fire Hydrant Installation-6 Oct to 5 Nov 2014;Other Facilities - 1 Nov to 30 Dec 30 2014		
	GEOTHERMAL			**89.00**			
Indicative	49 MW Biliran Geothermal Plant Project	Biliran Geothermal Incorporated	Biliran, Biliran	49	-On-going feasibility studies; -F15On-going processing of requirements such as GIS, LGU endorsement, DENR-ECC.		
Indicative	Dauin Geothermal Project	Energy Development Corporation	Dauin, Negros Oriental	40	On-going feasibility studies; -On public land but portions of access road leading to Site sits on provate land; Land-use permits for areas on public land obtained; -Ongoing negotiations with lot owners for access road; DOE Service Contract Project Project within GRESC # 2009-10-002; -LGU endorsement obtained; SLUP Obtained; -TCP Obtained; RRW Obtained;Water rights obtained; DENR-ECC obtained; -SLUP and TCP permits subject for renewal;Turnkey Contracts pending result of feasibility study; -Ongoing negotiations on the financing; -Target Commencement of Construction:2nd half of 2019; -Target Commissioning December 2018; -Project cost is subject to the result of feasibility study		
Indicative	Southern Leyte Geothermal Plant Geothermal Project (formerly known as Mt. Cabalian Geothermal)	Energy Development Corporation	Cabalian, Southern Leyte	To be determined	-On-going commercial and technical studies -Radon gas survey in November 2013; -On public land; Land-Use permits obtained; -DOE Service Contract Mt. Cabalian GSC; Obtained DENR-ECC; Obtained LGU Endorsement; SLUP Obtained; TCP Obtained; RRW Obtained Water Rights for application; -On-going Negotiations with Financing Institutions; -Target Construction and Commissioning Date not yet finalized.		
	HYDROPOWER			**72.20**			
Indicative	Igbulo (Bais) Hydroelectric Power Project	Century Peak Energy Corporation	Igbaras, Iloilo	5.1	-Issued Confirmation of Commerciality on 26 June 2013; -Clearance to Underatake GIS from DOE issued on		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					14 August 2013; -Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -70%, Construction-2%, Interconnection-0%) completed as of 30 September 2014 ;		
Indicative	Hilabangan (Upper Cascade)	Century Peak Energy Corporation	Kabankalan, Negros Occidental	4.8	'-Issued Confirmation of Commerciality on 02 October 2013; -Clearance to Underatake GIS from DOE issued on August 2013; -Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014		
Indicative	Hilabangan (Lower Cascade)	Century Peak Energy Corporation	Kabankalan, Negros Occidental	3.0	-Issued Confirmation of Commerciality on 02 October 2013; -Clearance to Underatake GIS from DOE issued on August 2013; -Submission of lacking requirements e.g. permits in progress.		
Indicative	Maninila (Lower Cascade)	Century Peak Energy Corporation	San Remigio, Antique	4.5	-Issued Confirmation of Commerciality on 02 October 2013; -Clearance to Underatake GIS from DOE issued on August 2013; -Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ;		
Indicative	Maninila (Upper Cascade)	Century Peak Energy Corporation	San Remigio, Antique	3.1	-Issued Confirmation of Commerciality on 02 October 2013; -Clearance to Underatake GIS from DOE issued on August 2013; -Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ;		
Indicative	Sibalom (Upper Cascade)	Century Peak Energy Corporation	San Remigio, Antique	4.2	-Issued Confirmation of Commerciality on 02 October 2013; -Clearance to Underatake GIS from DOE issued on August 2013;		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ;		
Indicative	Sibalom (Middle Cascade)	Century Peak Energy Corporation	San Remigio, Antique	4.0	-Issued Confirmation of Commerciality on 02 October 2013; -Clearance to Underatake GIS from DOE issued on August 2013; -Submission of lacking requirements e.g. permits in progress.		
Indicative	Sibalom (Lower Cascade)	Century Peak Energy Corporation	San Remigio, Antique	3.3	-Issued Confirmation of Commerciality on 02 October 2013; -Clearance to Underatake GIS from DOE issued on August 2013; -Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ;		
Indicative	Basak II	Meadowland Developers, Inc.	Badian, Cebu	0.5	-Issued Confirmation of Commerciality on 30 April 2014; -Submission of lacking requirements e.g. permits in progress; -Groudbreaking held on 16 February 2013;		
Indicative	Timbaban Hydroelectric Power Project	Oriental Energy and Power Generation Corporation	Madalag, Aklan	18	-Issued Confirmation of Commerciality on 28 May 2013; -Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ;		
Indicative	Loboc Hydroelectric Power Project	Sta. Clara Power Corporation	Loboc, Bohol	1.2	-Issued Confirmation of Commerciality on 3 June 2013; -Submission of lacking requirements e.g. permits in progress; -On-going construction (Pre-construction -70%, Construction-0%, Interconnection-0%) completed as of 30 September 2014 ;		
Indicative	Main Aklan River Hydroelectric Power Project	Sunwest Water & Electric Company, Inc.	Libacao, Aklan	15	-Issued Confirmation of Commerciality on 3 June 2013; -Submission of lacking requirements e.g. permits in progress;		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Issued Confirmation of Commerciality on 19 September 2014; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014;		
Indicative	Amlan (Plant A)	Natural Power Sources Integration, Inc.	Amlan, Negros Oriental	3.2	-Issued Confirmation of Commerciality on 25 September 2014; -Submission of lacking requirements e.g. permits in progress; -Conduct of Feasibility Study for the expansion on-going; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014;		
Indicative	Amlan (Plant B)	Natural Power Sources Integration, Inc.	Amlan, Negros Oriental	1.5	-Issued Confirmation of Commerciality on 11 July 2014; -Submission of lacking requirements e.g. permits in progress; -Conduct of Feasibility Study for the expansion on-going; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014;		
Indicative	Amlan (Plant C)	Natural Power Sources Integration, Inc.	Amlan, Negros Oriental	0.8	-Issued Confirmation of Commerciality on 25 September 2014; -Submission of lacking requirements e.g. permits in progress; -Conduct of Feasibility Study for the expansion on-going; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014;		
	SOLAR			**160.00**			
Indicative	Leyte Solar Photovoltaic Power Project	Phil. Solar Farm-Leyte, Inc.	Ormoc City, Leyte	30	-Awarded with Solar Energy Service Contract (SESC No. 2012-08-019) on 19 Sept 2012; Conducted Third Party SIS, currently under review by NGCP; Acquired ECC from DENR, CNO from NCIP, Provincial, Municipal and Barangay Resolutions of Support, Lease Agreements with land owners, EPC Contract with DS Steel Com. Ltd., and proofs of negotiations/certifications with financial institutions for project financing; -Clearance to Underatake GIS from DOE issued on		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					12 October 2012; -On-going negotiations for Project Financing; -Total project cost is US$72.0Million; - Acquired the DOE Certificate of Confirmation of Commerciality on 31 May 2013; -On-going construction; Construction Stage as of 30 September 2014(Pre-Construction - 30% completed, Construction-0%, Interconnection-0%);On-going negotiations for project financing;Filed a request for endorsement to avail the duty-free importation;		
Indicative	San Carlos Solar Power Project Phase C-10 Phase D-13	San Carlos Solar Energy Inc.	San Carlos City, Negros Occidental	30	-Covered by Solar Energy Service Contract (SESC No. 2013-09-037) on 30 October 2013; '-Filed declaration of Commerciality on 28 August 2014 (under evaluation);		
Indicative	Cadiz Solar Power Project	Phil.Power Exploration & Development Corporation	Brgy., Tinampa-an Cadiz City, Negros Occidental	100	-Awarded with Solar Energy Services (SESC No. 2013-06-035) on 3 July 2013; '-Filed declaration of Commerciality on 2 September 2014 (under evaluation);		
	WIND			**50.00**			
Indicative	Pulupandan Wind Power Project	First Maxpower International Corporation	Pulupandan, Negros Occidental	50	'-Awarded with Wind Energy Service Contract (WESC No. 2010-02-037) on 1 February 2010; -Conducted detailed wind resource assessment; Completed feasibility study;Completed the conduct of GIS; -Secured various LGU permits and Resolutions of Support; Secured DENR ECC permit;Secured NCIP Certificate on Non-Overlap on 7 Jnauary 2013; Secured clearances from MARINA, BFAR, Philippine Coast Guard;Secured DPWH Road Right-of-Way for overhead T/L; Conducted Third Party System Impact Study, currently under review by NGCP;Secured proof of Consent from different Lot Owner; Conducted Public Consultation; - Acquired DOE Certificate of Confirmation of Commerciality on 17 September 2013; -Negotiation for financial closing with local financial institutions is on-going and expected to be completed by February 2014 (70-30 debt equity ratio); -On-going construction; Construction Stage as of 30 September 2014(Pre-Construction - 56% completed, Construction-0%, Interconnection-		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					0%);On-going completion of Pre-construction activities including financial closing as per Work Plan; - Project cost is $124,475,000.00		
	BIOMASS			**54.37**			
Indicative	South Negros 25 MW Biomass Power Plant 22.37MW-Grid 2.63MW- Own use	South Negros Biopower Inc.	Brgy. Cubay, La Carlota City, Negros Occidental	22.37	-Assessment of Target Site: Considering Biommas supply within 40 km radius from the site about 1,650,000 tons per year of biomass supply as fuel can be harnessed; -Preparation of Business Plan: Underway; -No developments on the site yet; For construction; -Marketing of Capacities: Feed-in Tariff; -Status of Permits and Other Regulatory Requirements:(1) Endorsements from Local Government Units were secured;(2)Environmental Compliance Certificate has been granted to SNBP on 17 December 2013 and the approval on the amendment was released on 2 June 2014; (3)Biomass Renewable Energy Operating Contract was signed between the Department of Energy and SNBP effective on 11 April 2014;(4) Clearance to Undertake System Impact Study has been granted for the start of negotiations with NGCP; -Financing Arrangements: IFC approved the financing requirement in July; -For Construction; -Construction Contracts for Plants and Equipment:EPC Contract is under negotiations; -Construction of Facility: Site Office construction has stated; Facility will start on 2nd Qtr 2016 -Clearance to Underatake GIS from DOE issued on 5 February 2014;		
Indicative	35.0 MW Mina Multi-Fuel Biomass Power Generation Facility	Green Power Panay Phils., Inc.	Iloilo	32	-For construction;		
	BATTERY			**40.00**			
Indicative	40 MW Battery Storage Project	AES Philippines Power Partners Co., LTD.	Kabankalan, Negros Occidental	40	-On-going feasibility study; - Option to lease was secured on 18 September 2013; Lease Contract for finalization. Sanggunian Panlalawigan issued Resolution 98-2077 declaring the lot as industrial.; -Conversion process on-going; - ECC scoping on-going.SIS from NGCP expected to		

Annex 12. Private Sector Initiated Power Projects in Visayas (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					be released on 30 October 2013; - Financing Arrangement: On-going negotiations with International/Local banks; -Selection of Owner's Engineer On-going for the Construction Contracts for Plants and Equipment; -Clearance to Underatake GIS from DOE issued on 31 January 2013; -Target Commencement of Construction: May 2014;		

Total Indicative Rated Capacity: 954.47

Source: DOE

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	COAL			**1,745.00**			
Committed	2 X 150 MW Coal-Fired Therma South Energy Project	Therma South Inc.	Brgy. Binugao, Toril, Davao City and Brgy. Inawayan, Sta. Cruz, Davao Del Sur	300	-Financial Arrangement Secured: Self-funded with financing arrangements with various Banks; -Secured Clearance from DOE for the conduct of GIS on 12 October 2011; -Off-taker: Power Sales Agreement (240 MW sold) between Therma South, Inc. and Davao Light & Power Company is 100MW (DLPC), Cotabato Light & Power Company is 5MW (CLPC), Agusan del Sur is 10MW (ASELCO), Surigao del Sur II is 5MW (SURSECO II), Davao Oriental EC is 5MW (DORECO), Misamis Occidental I is 3MW (MOELCI I), Cotabato EC is 8MW (COTELCO), Sultan Kudarat EC is 8MW (SUKELCO), Zamboanga del Norte is 5MW (ZANECO), Bukidnon 2 EC is 2MW (BUSECO), Surigao del Sur I is 3MW (SURSECO I), Surigao del Norte is 5MW (SURNECO), and Zamboanga del Sur I is 5MW (ZAMSURECO); -Marketing of Generating Capacities: 240 MW Sold as 31 May 2014; -Secured the permits for site development works; -Project Status as of 26 September 2014: 90% completed; -Project cost is Php24B	Unit 1 - November 2014 Unit 2 -January 2015	Unit 1 - 31 March 2015 Unit 2 - 30 June 2015
Committed	2 X 100 MW Southern Mindanao Coal Fired Power Station	Sarangani Energy Corporation	Brgy, Kamanga, Maasim, Sarangani	200	'-Financial Arrangement Secured on 12 December 2012; -Project Status (Over-all) as of 20 September 2014 - 54% completed; -On-going process in securing the regulatory requirements, permits, GIS, etc. ; -On-going processing of the land conversion from agricultural lands where the plant is located to industrial use as declared by the Municipality of Maasim: Out of 28 hectares occupied by the power plant, 19 hectares were already converted and the balance of 9 hectares (for coal conveying system and ash ponds) is undergoing the process of conversion with DAR and other government entities; -Off-taker: Power Sales Agreement for 105MW between Sarangani Energy Corporation and South Cotabato II is 70MW (SOCOTECO II), Davao del Norte is 15MW (DANECO), Agusan del Norte is 10MW (ANECO), and Agusan del Sur is 10MW (ASELCO)	Phase 1 - March 2015	'Phase 1 - September 2015

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					was executed 2011-2012; Please note that except for SOCOTECO1, all these offtakers will be supplied by Phase 1 of the SEC project in Maasim, Sarangani. Hence, Phase 1 is already fully contracted. SOCOTECO II Power Sales Agreement already has ERC final approval while those of ASELCO and ANECO have provisional approvals. Still working on DANECO; SOCOTECO1 on the other hand will be supplied by Phase 2 of SEC; -EPC Contract between Owner and Daelim Philippines, Inc. executed on 30 March 2011; -Notice to Proceed to EPC Contractor issued on 28 December 2012; SEC has complete and full support of its subsidiary companies, Conal Holdings Corporaion (CHC) and Alsons Consolidated Resources(ACR); -On-going Civil Works; -Project cost $450M		
Committed	3 X 135 MW FDC-Misamis Circulating Fluidized Bed (CFB) Coal-Fired Power Plant Project	FDC Utilities, Inc.	Phividec Industrial Estate, Villanueva, Misamis Oriental	405	-Financial Arrangement Secured on 27 December 2013 with various Banks; -Secured Clearance from DOE for the conduct of GIS on 12 September 2011; GIS Review by NGCP completed; Connection Agreement approved by NGCP in October 2013; -ECC for plant site issued on May 2013; ECCs for power plant and transmission line were issued; -ECC for transmission line issued on August 2013; -NWRB water permit for Tagoloan issued on Sept. 2013; NWRB conditional water permit for cooling water at Macajalar Bay to be issued in May 2014;NCIP Certficate of Non-Overlap issued on Feb. 2014;Seured LGU endorsements from concerned provincial, municipality and barangays;Secured Locational Clearance from Villanueva (Negotiation for Foreshore Lease was completed;Right of Entry Permit was secured from Phividec;Right-of-Way clearance and acquisition are for issuance); Registerd with the BOI on August 2013; secured Locatonal Clearance from Villanueva;Negotiation for Foreshore Lease was completed; -Off-taker: On-going negotiations with offtakers to raise contracted demand for the third unit; Contracted approximately 85% of the net output of the first 3 units of the project (As of August 2014); -Already concluded ground breaking ceremony in	1st Unit - December 2015 2nd Unit - March 2016 3rd Unit- June 2016	1st Unit - June 2016 2nd Unit - September 2016 3rd Unit- December 2016

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					Villanueva, Misamis Oriental on November 2013; -EPC Contractor was awarded in September 2013;Construction Contracts for Plant's Equipment:Contract EPC was awarded in Sept. 2013; Tendering Process of the first and most of 2nd batch auxiliary equipment has been completed;Groundbreaking ceremony was held in November 2013; Project Site activities commenced in first quarter of 2014;Project activities for the 3rd Qtr of 2014: - Arrival of anchor bolts, plates,channel and other embedded parts for Unit1;Completion of pile driving and foundation excavation for boiler house for Unit 1;Ongoing manufacturing of Shanghai boiler, Alstom turbine and generator, and steel structures;On-going construction of temporary facilities;Ongoing detailed design activities for the foundations,steel structures and concrete structures;Ongoing design of turbine generator structures;Finalizing of the jetty design and ordering of the jetty piles; -Project Status as of 30 September 2014: 17.52% completed; -Project cost PhP 30.019B;		
Committed	300 MW SMC Davao Power Plant Project Phase I 2x150MW	San Miguel Consolidated Power Corporation	Brgy. Culaman, Malita, Davao del Sur	300	-Financial Arrangement Secured from various banks on 12 May 2014; -On-going construction; Project Status (over-all) as of 26 September 2014 -92.37%; -Groundbreaking held last 15 July 2013; -Land acquisition completed; -Environmental Impact Assessment completed; Topographic and Hydrographic completed;Soil Investigation completed; -GIS/SIS already submitted to NGCP for review; NGCP returned the report toSMC GPHC with comments; -Site development in terms of physical accomplishment as of 26 September 2014 is 92.37%; Construction Activities of Unit 1&2 2 x 150MW Power Plant - 9.95%; Design and Construction of Pier and Jetty Structure is 73.41%; Engineering Design & Manufacturing of Parts - 83.02%;Right-of-Way Acquisition Status-20.01%;; Ash Dump Design and Construction - 100% -Facility Study Status- Final report submitted last 27 Dec. 2013; Results are being used by NGCP for pre-	Unit 1 - December 2015 Unit 2 -May 2016	Unit 1 - February 2016 Unit 2 -July 2016

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					construction works while SMC GPHC for right-of-way. - SEC issued last 26 August 2011; EPC Contract executed on January 2013; ECC issued in June 2013; -Construction of the Project has been underway since August 2013: -On-going electric power supply contract negotiation with prospective off-takers; -Clearance to Underatake GIS from DOE issued on 29 August 2011; -On-going civil works construction/installation; -Target Completion Date of Transmission Connection on March 2016; -Project cost is $630M / Php25.8B		
Committed	GNPower Kauswagan Ltd. 540MW Clean Coal-Fired Power Plant	GN Power Kauswagan Ltd. Co.	Kauswagan, Lanao del Norte	540	- Financial Arrangement Secured on 28 May 2014; - ECC issued on 14 March 2014; A multipartite monitoring team is being established pursuant to the ECC; - Clearance to Underatake GIS from DOE issued on 28 June 2013;; NGCP has completed the System Impact Study for 4x150MW (gross caoacity); Facility study to be performed next; - GNPK and the land owners of the Project site are in the final stages of satisfying their respective obligations under the land purchase agreements; - EPC contract was signed on 15 May 2014; - Provisional Authority dated 28 April 2014 was issued for the approval of the Power Purchase and Sale Agreement among GN Power, AMRECO PSAG Corp. and 20 participating ECs; 330MW sold to ECs arranged by AMRECO PSAG;GNPK is currently negotiating with other ECs as well as non-DU customers for sale of additional capacity; - Granted LGU Endorsement; - Permits and Other Regulatory Requirements: All permits obtained under the name of of GNPower Ltd. Co (Permits assigned from GNPower Ltd.Co. to GNPower Kauswagan Ltd.Co., DENR Environmental Compliance Certificate, CAAP Height Clearance,DOE Clearance to undertake SIS for 3x125MW, DOE Certificate of Endorsement for NCIP Application for Certificate of Non-Overlap, Mindanao Development Auhority Endorsement, LGU Endorements); Other permits obtained for the project: Clearance to Develop Port Facility;Permit to Drill) were transferred and	February 2017	December 2017

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					assigned to the Project Company, GN Power Kauswagan Ltd. Co. by virtue of a Project Assignment/Agreement; -Financing Arrangements: Commitments from several lenders have been obtained; -Construction Contracts for Plant and Equipment: Significant pre-Notice to proceed activities are being done by the EPC contractor at the site in China; Commencement of Construction: NTP expected tp be issued to the EPC contractor by November 2014; - Total Project Cost - US$740 Million		
	OIL			**41.10**			
Committed	15 MW Diesel Power Plant	Mapalad Energy Generating Corporation	Mapalad, Dalipuga, Iligan City	15	-Financial Arrangement Secured from various banks; -On-going process in securing the regulatory requirements, permits, GIS, etc. ; -SEC issued last 24 February 2011, ECC issued last 8 November 2011; -Off-taker: PSA with Iligan Light & Power, Inc. (ILPI) for a 15-year supply contract dated 9 May 2011; -Remaining permist and regulatory requirements to be secured are expected to be completed at the end of May 2014; -Already conducted reliability test on the engines and equipment. Awaiting approval for NGCP connection to the grid and synchronization for testing and commissioning; -Project Status as of 30 September 2014: 99% completed; -Project cost Php379M	1st Unit - End of May 2014 2nd Unit- End of June 2014	September 2014
Committed	3x6.97 MW Bunker-Fired Power Plant	Peak Power Soccsargen, Inc. (PSI)	National Highway, Brgy.Apopong, General Santos City	20.9	'-Financial Arrangement Secured:The Project was financed by 30% equity and 70% debt via peso-denominated loan from a bank granted on 4 February 2014; -Leased Agreement with Offtaker (SOCOTECO II) signed on December 2013; -The technical review for the proposals is ongoing; -Environmental Impact Study was conducted on the area which was submitted to the DENR- EMB for the application of ECC. -The technical review for the proposals is ongoing; -Environmental Impact Study was conducted on the area which was submitted to the DENR- EMB for the application of ECC (ECC -R12-1306-0078) granted on 26 June 2013; amended ECC: R12-1310-0034	September 2014	October 2014

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					granted on 26 November 2013; Endorsement from LGU: Sangguniang Barangay Resolution No. 2010-37 dated 16 August 2010 (Brgy. Apopong); Sangguniang Panlunsod Resolution No. 2013-21-dated 5 July 2013 (Brgy. San Isidro); Barangay Resolution No. 63 Series of 2014 dated 8 Janury 2014 (General Santos City); -GIS ongoing (started November 2013); -Bureau of Customs, Certi. of Accreditation: CAR No.102841031-13; Bureau of Customes, Cert. of Registration: CNN: IM0006357296; PSI will build the plants and connect directly to the substation of the Offtaker and the potential output of the plant will fed driectly to SOCOTECO 2 franchise area; -Clearance to Underatake GIS from DOE issued on 11 September 2013; -Commencement of Construction: December 2013; -Testing and Commissioning activities started on 26 September 2014; -Project Status as of 26 September 2014: 99% completed; -Project cost is Php1,907.55M		
Committed	1x5.2 MW Bunker-Fired Power Plant	Peak Power San Francisco (PSFI)	ASELCO Compound, Brgy. San Isidro,San Francisco, Agusan del Sur	5.2	-Financial Arrangement Secured:The Project was financed by 30% equity and 70% debt via peso-denominated loan from a bank granted on 4 February 2014; -Clearance to Underatake GIS issued on 24 September 2013;Geotechnical Foundations and Geohazard Risk Investigation by Construction & Drilling Specialists, Inc. on October 2013; Geohazards Assessment by Construction & Drilling Specialists, Inc. on November 2013; -Leased Agreement with Offtaker (ASELCO) signed on 3 January 2014; -The technical review for the proposals is ongoing; -Environmental Impact Study was conducted on the area which was submitted to the DENR- EMB for the application of ECC (ECC -R13-1401-009) granted on 19 February 2014; -Endorsement from LGU: Sangguniang Barangay Resolution No. 2013-18 dated 15 July 2013 (Brgy. Karaos); Sangguninang Barangay Resolution No. 2013-21-dated 5 July 2013 (Brgy. San Isidro); Sangguniang Barangay Resolution No. 2014-01 dated 6 January 2014 (Brgy. San Isidro); 18th Sangguniang Bayan Resolution No.2014-24 dated 29	September 2014	October 2014

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					January 2014 (Municipality of San Francisco); Bureau of Customs, Certi. of Accreditation: CAR No.106851112-13; Bureau of Customes, Cert. of Registration: CNN: IM0006371299; -PSFI will build the plants and connect directly to the substation of the Offtaker and the potential output of the plant will fed driectly to ASELCO franchise area; -Engineering, Installation, Construction and Completion Contract with Power Manufacturing and Machine Works, Inc. dated 29 November 2013; -Clearance to Underatake GIS from DOE issued on 24 January 2014; -Commencement of Construction: January 2014; Project Status as of 15 September 2014:57.41% completed;Experienced delay in work schedule due to bad weather; -Project cost is Php509.15M		
	HYDROPOWER			**64.00**			
Committed	Puyo Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	Jabonga, Agusan del Norte	30	-Financial Arrangement Secured; -Ground breaking held on 17 April 2013; -Issued Confirmation of Commerciality on 12 July 2013; -Already secured LGU Endorsements, DENR Certificate of Non-Coverage, NCIP Certificate and NWRB Permit; -Also submitted Feasibility Study and 5-Yr Work Plan; -EPC for main facilities for tender; -Pre-Construction stage (100% completed as of 31 August 2014);Interconnection - 0% as of 31 August 2014; -Construction stage (10% completed as of 31 August 2014) -Groundbreaking held on 17 April 2013	July 2017	July 2017
Committed	Limbatangon Hydroelectric Power Project	Turbines Resource & Development Corp.	Cagayan de Oro City, Misamis Oriental	9	-Financial Arrangement Secured; -On-going construction; - Issued Confirmation of Commerciality on 12 July 2013; - Already secured LGU Endorsements, DENR ECC, and NCIP Certificate; -Also submitted Feasibility Study, Detailed Engineering Design, and 5-Yr Work Plan; -Construction stage (10% completed as of 30 September 2014);	January 2017	January 2017

Annex 13. Private Sector Initiated Power Projects in Mindanao (Committed) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					-Construction of Access Road completed.		
Committed	Lake Mainit	Agusan Power Corporation	Jabonga, Agusan del Norte	25.0	-Financial Arrangement Secured; -Clearance to Underatake GIS from DOE issued on 7 October 2012; -On-going construction; -Submission of lacking requirements e.g. permits in progress.	March 2016	March 2016
Committed	Asiga	Asiga Green Energy Corp.	Santiago, Agusan del Norte	5	-Financial Arrangement Secured; -Issued Confirmation of Commerciality on 09 April 2014; - Submission of lacking requirements e.g. permits in progress;	To be determined	To be determined
	BIOMASS			**20.60**			
Committed	10 MW Kalilangan Bio-Energy Corporation Multi Feedstock Power Generating Facility	Kalilangan Bio-Energy Corporation	FIBECO, Anahawan, Maramag, Bukidnon	9.00	-Financial Arrangement Secured: -On-going construction; -On-going Processing of Requirements;Permits obtained LGU Endorsement, Land Use Permit, etc.); -Has EPC	2016	2016
Committed	15 MW LPC Biomass Power Plant Project	Lamsan Power Corporation	Maguindanao	10.00	-Financial Arrangement Secured: -On-going construction; -Secured Clearance from DOE for the conduct of GIS on 28 February 2014;	December 2015	December 2015
Committed	3 MW Biomass Cogeneration Facility	Philippine Trade Center, Inc.	Maguindanao	1.60	-Financial Arrangement Secured: -Operating for Own-Use; -Secured Clearance from DOE for the conduct of GIS on 13 March 2014;	To be determined	To be determined

Total Committed Rated Capacity: 1,870.70

Source: DOE

Annex 14. Private Sector Initiated Power Projects in Mindanao (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	COAL			**1,230.00**			
Indicative	ZAM 100 MW Circulating Fluidized Bed (CFB) Coal-Fired Power Station	San Ramon Power Inc.	Sitio San Ramon, Bgry. Talisayan, Zamboanga City	100	-On-going securing permits; -On-going negotiations with ZAMCELCO for baseload supply; Power Sales Agreement for ZAMCELCO is 85MW, and ZAMSURECO 1 is 10MW; -Awaiting for the ERC approval of PSAL with ZAMCELCO; -EPC Contract between Owner and Daelim Philippines, Inc. executed on 27 December 2012; -Land Lease Agreement with ZamboEcozone signed on 28 January 2013; DENR had issued ECC in April 2012; -On-going sourcing of financing the project; -Ground breaking last 27 January 2013; -Notice to Proceed targeted on Q4 2013; -Project cost is $292M	December 2015	June 2016
Indicative	Davao del Norte 20 MW Circulating Fluidized Bed Biomass-Coal Fired Thermal Power Plant	FDC Utilities, Inc.	Maco, Davao del Norte	20	-Awaiting approval of sale from ERC on proposed plant connection at DANECO 69/13.2kV Canocotan Substation; -On-going of securing of permits; -Clearance to Underatake GIS from DOE issued on 7 June 2012; -Project cost is Php4.8B	March 2015	March 2015
Indicative	300 MW SMC Davao Power Plant Project Phase I	San Miguel Consolidated Power Corporation	Brgy. Culaman, Malita, Davao del Sur	300	-Land acquisition completed; -Secured DENR ECC (ECC-CO-1304-0010) on 18 June 2013; -On-going securing of permits and other regulatory requirements; -On-going negotiations for financing arrangements; -On-going civil works construction/installation; -Project Status as of 20 March 2014 - 20% completed;	Phase I Unit 1 (150MW) - January 2016 Unit 2 (150MW0 - June 2016 Phase II 300 MW - Dec 2018	Phase I Unit 1 (150MW) - January 2016 Unit 2 (150MW0 - June 2016 (Testing and Commissioning) Phase II 300 MW - Dec 2019
Indicative	Sibuguey Power Plant Project	Philippine National Oil Company (PNOC-EC)	Sibugay, Zamboanga	100	-Technical and economic feasibility study was completed in July 2011; -Eligible bidder for Transaction Advisor on 8 August 2012; -On-going bid processing for the EIS consultancy leading to ECC application and other permits; -Clearance to Underatake GIS from DOE issued on14 October 2011;	September 2016	September 2016
Indicative	300 MW SMC Davao	San Miguel	Brgy. Culaman, Malita,	300	-Land acquisition completed;	December 2018	December 2018

Annex 14. Private Sector Initiated Power Projects in Mindanao (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
	Power Plant Project Phase II	Consolidated Power Corporation	Davao del Sur		-On-going securing of permits and other regulatory requirements; -On-going negotiations for financing arrangements		
Indicative	2x55 MW Balingasag Thermal Power Plant (Circulating Fluidized Bed Combustion (CFBC) Coal-Fired Power Plant Plant)	Minergy Coal Corporation	Brgy. Mandangoa, Balingasag, Misamis Oriental	110	- SEC Registered on February 2013;Certificate of Endorsement (No. 2013-07-007) issued on 1 August 2013; -Site Evaluation completed on 14 August 2002; -On-going securing of permits and other regulatory requirements such as EIS/ECC; -Technical review on-going; Off-taker - CEPALCO (embedded via double ckt 138 kV line); -Main EPC Contractor: Mitsubishi Corporation; Main Sub-contractor: Toshiba Plants Systemes * Services Corp. (TPSC); -Total project cost - P14,553B	January 2017	January 2017
Indicative	300 MW Coal Fired Power Plant Phase 1 - 2 x 100MW Phase 2 - 1 x 100MW	Ozamiz Power Generation, Inc.	Brgy. Pulot,Ozamiz City,Misamis Occidental	300	-Presented plan to the LGU of Ozamiz and was endorsed the project through Sangguniang Panglungsod Resolutions; -iMinor revisions on Feasibility Study; Target completion of Feasibility Study by September 2014; -Topographic and Bathymetric Survey of the proposed site as well as the first Technical Review by EMB are completed on June 2014;-CAAP application, NCIP Certificate of Non-Overlap, BOI application and detailed development plans are all ongoing; -Geological drilling will be completed by August 2014; -Securing of required land and conversion is 50% completed; -On-going request for a Certificate of Land Use Compatability from the City Planning and Development Office of Ozamiz City; Final report on the 1st technical review was completed last 18 August 2014;Completing requirements for CAAP application, Endorsement from DOE to NCIP for the issuance of the CNO on 9 September 2014, BOI application and detailed site development plans are still on process;Clearance to undertake GIS released on 6 August 2014; - 1st Public Scoping was already completed on 28 May 2014;Land aquisition and conversion is still on-going. 1st Phase Target Completion on August	Phase 1 - 2 x 100MW - March 2018 Phase 2 - 1 x 100MW - 2018	Phase 1 - 2 x 100MW - September 2018 Phase 2 - 1 x 100MW - 2018

Annex 14. Private Sector Initiated Power Projects in Mindanao (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					2014; 2nd Phase and Land Conversion Target Completion October 2014; - Target Completion of DENR requirements (Environmental Impact Assessment, Environmental Compliance Certificate and Area Clearance Certificate on September 2014; DENR-ECC to be started; Target date of Ground breaking for site development works mov -Barangay and City Endorsement acquired last 7 March 2014 and 10 March 2014, respectively; -SEC Registration obtained 11 Nov. 2013; - Target date of Ground breaking for site development works moved on December 2014; -Negotiations with prospective off-takers are on-going, 1st phase target completion October 2014;2nd Phase Target Completion February 2015; -Negotiations with foreign partners for financing arrangements on-going; Detailed Site Development Plans ongoing; -Selection of EPC Contractor on-going; Target awarding of EPC contract by December 2014;		
	GEOTHERMAL			**50.00**			
Indicative	Mindanao 3 Geothermal	Energy Development Corporation	Kidapawan, North Cotabato	50	-Ongoing feasibity study, resource assessment and studies in optimal power plant capacity; -The project is within the DOE Service Contract - GRESC# 009-10-004; DENR ECC obtained; -Land use permits obtained; LGU Endorsement on-going; Water right secured; On-going preparation of DENR requirements for TL FLAg; Turnkey Contracts pending result of feasibility study;Target of commissioning on December 2017; -Clearance to Underatake GIS from DOE issued on 7 June 2012; -Project cost is subject to the result of the feasibility study	December 2017	December 2017
	HYDROPOWER			**148.20**			
Indicative	Tagoloan Hydropower	First Gen Mindanao Hydropower Corp.	Impasugong & Sumilao, Bukidnon	39	-Issued Confirmation of Commerciality on 02 July 2013; -Submission of lacking requirements e.g. permits in progress; -On-going Pre-construction activities; Pre-Construction stage (93% completed as of 30 September 2014)	October 2015	October 2015

Annex 14. Private Sector Initiated Power Projects in Mindanao (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
Indicative	Bubunawan Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	Baungon and Libona, Bukidnon	23	-Issued Confirmation of Commerciality on 02 July 2013; - Already secured LGU Endorsements, DENR Environment Compliance Certificate , NCIP Certificate and NWRB Permit; -Also submitted Feasibility Study and 5-Yr Work Plan; -Clearance to Underatake GIS from DOE issued on 28 September 2012; -Bids and tendering for the EPC started on April 2014; -Construction is set to start on the 3rd quarter of 2014; -On-going Pre-construction activities; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014;	October 2015	October 2015
Indicative	Cabadbaran Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	Cabadbaran, Agusan del Norte	9.75	-Issued Confirmation of Commerciality on 03 July 2013. -Already secured LGU Endorsements, DENR Certificate of Non-Coverage, NCIP Certificate and NWRB Permit; -Also submitted Feasibility Study and 5-Yr Work Plan; -Clearance to Underatake GIS from DOE issued on 28 September 2012; --On-going Pre-construction activities;Pre-Construction stage (20% completed as of 30 September 2014); -For improvement of existing access road (logging)	December 2015	December 2015
Indicative	Tumalaong Hydroelectric Power Project	First Gen Mindanao Hydropower Corp.	Baungon, Bukidnon	9	-Issued Confirmation of Commerciality on 2 July 2013; - Already secured LGU Endorsements DENR Certificate of Non-Coverage, and Conditional Water Permit; - Also submitted Feasibility Study and 5-Yr Work Plan; -On-going Pre-construction activities;Pre-Construction stage (93% completed as of 30 September 2014)	October 2015	October 2015
Indicative	New Bataan	Euro Hydro Power (Asia) Holdings, Inc.	New Bataan, Compostela Valley	2.40	-Issued Confirmation of Commerciality on 24 April 2014; - Submission of lacking requirements e.g. permits in		

Annex 14. Private Sector Initiated Power Projects in Mindanao (Indicative) as of 31 October 2014

Committed / Indicative	Name of the Project	Project Proponent	Location	Rated Capacity (MW)	Project Status	Target Commissioning	Target Commercial Operation
					progress; -On-going Pre-construction activities; -On-going construction (Pre-construction -0%, Construction-0%, Interconnection-0%) completed as of 30 September 2014;		
Indicative	Culaman Hydroelectric Power Project	Oriental Energy and Power Generation Corporation	Manolo Fortich, Bukidnon	10	-Issued Confirmation of Commerciality on 03 June 2013; -Clearance to Underatake GIS from DOE issued on 5 October 2012; - Submission of lacking requirements e.g. permits in progress.	June 2018	
Indicative	Pasonanca	Philcarbon, Inc.	Zamboanga City	0.1	-Issued Confirmation of Commerciality on 09 January 2014; -Submission of lacking requirements e.g. permits in progress.	March 2017	
	SOLAR			**45.50**			
Indicative	Darong Solar Photovoltaic Power Project	PhilNew Energy Inc.	Sta. Cruz, Davao del Sur	35	-Awarded with the Solar Energy Service Contract (SESC No. 2011-12-007) on 16 December 2011; -Submitted the Declaration of Commerciality (DOC) on September 2011; -Clearance to Underatake GIS from DOE issued on 25 March 2011;	September 2015 (Subject to FIT)	
Indicative	Digos Solar Photovoltaic Power Project	Enfinity Philippines Renewable Resources, Inc.	Digos City, Davao del Sur	10	-Awarded with the Solar Energy Service Contract (SESC No. 2012-09-033) on 12 October 2014; -Acquired ECC from DENR; -Acquired the DOE Certificate of Confirmation of Commerciality subject to execution of Amendment Contract on 11 March 2014; -Clearance to Underatake GIS from DOE issued on 7 August 2013;	October 2014	
	BIOMASS			**10.80**			
Indicative	12 MW Biomass Power Plant Project	Misamis Oriental Bio-Energy Corporations	Misamis Oriental	10.80		2015	

Total Indicative Rated Capacity: 2,431.60

Source: DOE

Annex 15. ERC Approved Capital Expenditure Projects as of 31 October 2014

APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
Oriental Mindoro Electric Cooperative, Inc. (ORMECO)	**Network CAPEX Projects**			March 14, 2011/ October 22, 2014
	Replacement of the existing 2.5 MVA power transformer at Bongabong Substation to a 5 MVA capacity transformer.	To address the capacity problem of the existing 2.5 MVA Bongabong Substation.	9,559,400.00	
	Construction of a new 2.5 MVA substation at Victoria, Oriental Mindoro utilizing the 2.5 MVA capacity transformer of the Bongabon Substation.	To address the capacity problem of the 5 MVA Naujan Substation of ORMECO.	5,000,000.00	
	Rehabilitation or Upgrading of Primary Lines	To provide a safe and reliable distribution system.	28,814,308.37	
	Rehabilitation and Upgrading and Splitting of Feeder R7 into two (2) Feeders	To improve service reliability and reduce the system loss by splitting the lone feeder of Socorro substation into two 2 feeders.	2,767,571.48	
	Replacement of Rotten Poles (Wood, Creosoted)	To maintain a safe and reliable distribution s stem.	40,937,511.85	
	Acquisition of Fuse and Cut-Out and Lightning Arrester to be installed at Take-Off Laterals	To maintain a safe and reliable distribution s stem.	3,285,652.50	
	Procurement of Wedge Connectors	To maintain a safe and reliable distribution s stem.	280,800.00	
	Replacement of Defective Kilowatt-hour (kWh) Meters	To provide accurate measurement of energy consumed by each member-consumers	44,757,600.00	
	Acquisition of Brand New Distribution Transformers (DTs)	To accommodate the increasing demand of ORMECO's distribution system.	69,391,378.00	
	Line Expansion and Customer Connections	Rural electrification projects	15,040,089.00	
	Additional New Connections to Existing Lines	To accommodate new customers of ORMECO	80,482,531.00	
	Non-Network CAPEX Projects			
	Office Furniture Transportation Equipment Improvement of Main and Substation Offices Tools Shop and Equipment Miscellaneous Equipment High Potential Test Equipment Meter Calibration Equipemnt	To improve service efficiency	80,836,818.43	
Bohol II Electric Cooperative, Inc. (BOHECO II)	The project consists of the replacement of the old 5 MVA power transformer at the Alicia Susbstation to a new 5 MVA powertransformer.	The old 5 MVA power transformer has been rehabilitated twice (rewound) since it was first commissioned on January 24, 2004. In order to avoid further damage to its equipment, BOHECO II was advised, by the contracting party that rehabilitated its equipment, not to load its old transformer beyond 70% loading capacity. As per application, the Alicia Substation was able to register a peak demand of 3.197 MW (63.94% loading) prompting BOHECO II to immediately replace its old 5 MVA power transformer.	6,950,000.00	November 21, 2012/ September 24, 2014
First Laguna Electric	**Network CAPEX Projects**			
	1. New 10 MVA Pagsanjan Substation	The project is intended to relieve the loading of Transformer Bank NO.1 of	36,139,572.08	

Annex 15. ERC Approved Capital Expenditure Projects as of 31 October 2014

APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
Cooperative, Inc. (FLECO)		Lumban Substation which served as source of power in the Municipality of Pagsanjan and part of the Municipality of Lumban. It will also address the increasing demand of the feeder connected particularly the area of Pagsanjan for being a tourist destination and highly commercialized area. Along with this problem, the existing 69 kV line supplied to FLECO is in radial connection from National Grid Corporation of the Philippines (NGCP) substation up to LumbanSubstation only. Thus, the need to extend the said line from Lumban Substation up to Barangay Sampaloc, Pagsanjan to feed power to the proposed Pagsanjan Substation. Forecasted demand of Lumban Substation NO.1 shows that it will have a capacition violation by year 2011.		
	2. 69 kV Tie Line		47,438,078.23	
	3. Installation of 69 kV Sulfur Hexaflouride (SF6) CircuitBreaker for Lumban Substation Banks NO.1 and NO.2 Replace the existing primary protection with a 69 kV SF6 Circuit Breaker.	The existing primary protection of the power transformer at Lumban Substation Banks No. 1 and No. 2 is a 69 kV power fuse which are notcompliant with the requirement of the Philippine Grid Code (PGC).	8,507,569.28	
	4. Revamp of Three Phase Primary Line at Zamora St. (Part of Fedder No. 1) Barangay Lewin, Lumban, Laguna Construction of 0.419 kilometers of three phase primary line with Aluminum Concrete Steel Reinforced (ACSR) No. 4/0 along National Road at Baran a Lewin, Lumban, Laguna.	• As a replacement to the existing unsafe distribution line. • The existing three phase line along the National Road of Barangay Lewin,Lumban, Laguna which is the main-trunk backbone line of Feeder No. 1 -Pagsanjan is identified unsafe due to its construction assembly. The poleswere erected in between the houses and the clearance of three phase linefrom roof of houses is critical,	444,676.63	
	5. Replacement of existing Oil Circuit Recloser of FeedersNO.3, 5 & 6 with Programmable Control Type VacuumCircuit Recloser (Electronic Controlled, Supervisory Control and Data Acquisition SCADA ReadProject Description	Existing secondary protection of Feeders NO.3, 5 and 6 is a manual type hydraulically controlled circuit recloser.Its interrupting ratings both in minimum and maximum are adequate to perform its duty to sense all the type of faults that may occur in the distribution feeder. The existing circuit reclosers are dilapidated and have undergone repair and reconditioning. It was observed that the sensitivity of the protective devices is no longer precise and very hard to coordinate with the protective devices along the distribution line. Poor sensitivity and non-coordination of the protective devices resulted when line fault occurs in a lateral part of the feeder, theunfaulted line also experiences power outage because the protective device that responds first is the main protective device which is the feeder's circuit recloser instead of the rotective device of that faulted lateral line.	2,447,741.75	
	6. Line Conversion from Single Phase to Three PhaseConstruction of San Antonio Feeder of LumbanSubstation Bank No. 2 (Barangay 4 Quinale, Paete to Baran a San Antonio, Kalayaan)	Feeder No. 4-Kalayaan of Lumban Substation Bank No. 2 has identified a voltage violation at 0.89 per unit on year 2010 and exceeds the unbalanced voltage of 4.12% in the base year. The table below shows the low voltage problems in Feeder NO.4 which will worsen in the succeeding years.	8,972,425.02	

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<table>
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<tr><td></td><td>Conversion of the 6.331 kilometers single phase line to three phase line starts at Pole No. KL-P101 and 2013will end at Pole No. KL-P231 using ACSR No. 3/0 asthe primary conductor. This will provide thenecessary voltage correction to the power quality problems of Feeder No. 4-Kalayaan particularly in the area of San Antonio.</td><td><table><tr><th colspan="7">Voltage Profile Feeder No. 4 - Kalayaan</th></tr><tr><th>Year</th><th>2009</th><th>2010</th><th>2011</th><th>2012</th><th>2013</th><th>2014</th></tr><tr><td>Voltage Level (PU)</td><td>0.92</td><td>0.89</td><td>0.89</td><td>0.88</td><td>0.88</td><td>0.88</td></tr><tr><td>% Voltage Unbalance</td><td>4.12</td><td>5.60</td><td>5.75</td><td>5.89</td><td>6.04</td><td>6.19</td></tr></table></td><td></td><td></td></tr>
<tr><td></td><td>7. Line Conversion from Single Phase to Three Phase ofBonifacio Feeder of Lumban Substation Bank No. 2(Barangay Segunda Pulo, Lumban to Barangay Primera Parang)

Conversion of the 1.116 kilometers single phase line to three phase line using ACSR No. 3/0 as the primary conductor.</td><td>To accommodate increasing load since the existing phase conductor and configuration exceeds already its economic loading. Furthermore, feeder load balancing is attainable.</td><td>1,270,172.51</td><td></td></tr>
<tr><td></td><td>8. Line Conversion from Single Phase to Three Phase ofJ. Rizal Feeder of Lumban Substation Bank No. 2 Barangays Segunda Pulo, Lumban to Maracta)

The project is the conversion of the 0.687 kilometers single phase line to three phase line using ACSR No.1/0 as the primary conductor.</td><td>To accommodate increasing load since the existing phase conductor and configuration exceeds already its economic loading. Furthermore, feeder load balancing is attainable.</td><td>744,841.96</td><td></td></tr>
<tr><td></td><td>9. Line Conversion from Single Phase to Three Phase of San Juan Feeder of Lumban Substation Bank No. 2 (Feeder NO.4 to Barangay San Juan, Kalayaan)

Conversion of the 0.503 kilometers single phase line to three phase line starts at Pole No. KL-P042 and will end at Pole No. KL-P055 using ACSR No. 1/0 asthe primary conductor. This will provide thenecessary voltage correction to the power qualityproblems specifically in voltage unbalance of Feeder No. 4-Kalayaan particularly in the area of</td><td>The project is intended to solve power quality problem. It will replace the old lines of 0.503 kilometers single phase line. The replacement of dilapidated poles and unwanted construction assemblies are included in the plan. Furthermore, safety will be addressed as unwanted low sagging conductors will be eliminated. Conversion from single phase to three phase will relieve the voltage unbalance deficiency and improve the power quality.

<table><tr><th colspan="7">Voltage Profile Feeder No. 4 - Kalayaan</th></tr><tr><th>Year</th><th>2009</th><th>2010</th><th>2011</th><th>2012</th><th>2013</th><th>2014</th></tr><tr><td>% Voltage Unbalance</td><td>4.12</td><td>5.60</td><td>5.75</td><td>5.89</td><td>6.04</td><td>6.19</td></tr></table></td><td>566,780.45</td><td></td></tr>
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Annex 15. ERC Approved Capital Expenditure Projects as of 31 October 2014

<table>
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<tr><td></td><td>Kalayaan.</td><td></td><td></td><td></td></tr>
<tr><td></td><td>10. Line Conversion from Single Phase to Three Phase ofBagumbayan Feeder of Famy Substation (BarangayTalangka, Sta. Maria to Barangay Bagumbayan, Sta.Maria)

Conversion of the 5.61 kilometers single phase line to three phase line using ACSR No. 3/0 as the primary conductor.</td><td>• This will provide the necessary voltage correction for the power qualityproblems specifically in voltage unbalance of Feeder No. 7-Mabitac/Sta. Maria particularly in the area of Sta. Maria.

• The project is intended to solve the power quality problem at the affected area. It will replace the old lines of 5.61 kilometers single phase line. The replacement of dilapidated poles and unwanted construction assemblies are included in the plan. Furthermore, safety issues will be addressed as unwanted low sagging conductors will be eliminated. Conversion from single phase to three phase will relieve the voltage unbalance deficiency and improve the power quality. It will also eliminate over extended single phase line.

<table><tr><td colspan="7">Voltage profile Feeder No. 7 – Mabitac/Sta. Maria</td></tr><tr><td>Year</td><td>2009</td><td>2010</td><td>2011</td><td>2012</td><td>2013</td><td>2014</td></tr><tr><td>% Voltage Unbalance</td><td>7.47</td><td>7.60</td><td>7.65</td><td>7.71</td><td>7.77</td><td>7.83</td></tr></table></td><td>2,822,472.25</td><td></td></tr>
<tr><td></td><td>11. Conversion from Single Phase to Three Phase ofMabitac/Pakil Barrio Feeder of Famy Substation(Barangays Asufre, Mabitac to Casa Real, Pakil)

Conversion of the 3.996 kilometers single phase line to three phase line using ACSR No. 1/0 as the primary conductor.</td><td>• This will provide the necessary voltage correction for the power quality problems specifically the voltage unbalance of Feeder No. 7-Mabitac/Sta.Maria particularly in the areas of Mabitac/Pakil Barrios.

• The project is intended to solve the power quality problem in the affected area. It will replace the old lines of 3.996 kilometers single phase line. The replacement of dilapidated poles and unwanted construction assemblies are included in the plan. Furthermore, safety issues will be addressed as unwanted low sagging conductors will be eliminated. Conversion from single phase to three phase line will relieve the voltage unbalance deficiency and improve the power quality. Also, it will eliminate over extended single phase line.

<table><tr><td colspan="7">Voltage Profile Feeder No. 7 – Mabitac/Sta. Maria</td></tr><tr><td>Year</td><td>2009</td><td>2010</td><td>2011</td><td>2012</td><td>2013</td><td>2014</td></tr><tr><td>% Voltage Unbalance</td><td>7.47</td><td>7.59</td><td>7.65</td><td>7.71</td><td>7.77</td><td>7.83</td></tr></table></td><td>4,702,918.37</td><td></td></tr>
<tr><td></td><td>12. Conversion from Single Phase to Three Phase ofLongos Feeder of Lumban Substation Bank No. 2 (Feeder NO.4 to Barangay Longos, Kalayaan

Conversion of the 0.468 kilometers single phase line to three phase line using ACSR</td><td>This project aims to correct the voltage and addresses the power qualityproblems specifically in the unbalanced voltage of Feeder No. 4-Kalayaan particularly in the area of Barangay Longos, Kalayaan, Laguna. It is also intended to solve the power quality problem in the affected area. It will replace the old lines of 3.996 kilometers single phase line, the replacement of dilapidated poles and unwanted construction assemblies are included in the plan. Furthermore, safety issues will be addressed as unwanted low sagging conductors will be eliminated.</td><td>522,394.18</td><td></td></tr>
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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	No. 1/0 as the primary conductor.	Conversion from single phase to three phase will relieve the voltage unbalance deficiency and improve the power quality. Likewise, it will eliminate over extended single phase line.		
	13. Pole Cluster Metering with Replacement of Old/Defective Kilowatthour Meter Replacement of defective kilowatthour meters including pole clustering of meters.	• The metering facilities are vital in the distribution utilities, accurate registration of the energy consumed by the customers is very important to maximize the energy sales, and minimize the system loss. FLECO has been in existence for more than 30 years, some of its kWh meters are very old by this time, as the kWh meters age they tend to slow down and cause erroneous registration, particularly the mechanical type meters. • Conduct of constant maintenance will also ensure the accuracy of the metering facilities for the benefit of both the customers and the cooperative. The report on system loss segregation of year 2011 shows that 4.73% of the total system loss of FLECO resulted from non-technical loss, losses from pilferage, inaccurate registration of the energy consumptions by the customers, not cleared right of way, and considerable number of errors on meter reading compose the system loss. • Clustering of kWh meters and replacement of old and defective kWh meters are important corrective measures to minimize the losses. Moreover, these will lessen occurrence of pilferage, inaccurate registration of the energy consumed by the customers, and will result to accurate meter reading. The cooperative targets to complete kWh meter clustering in its whole distribution system. In addition, the project also involves the rehabilitation of the secondary lines.	35,557,674.33	
	14. Installation of Line Recloser at Feeder NO.3, 5 and 8 • Installation of automatic circuit recloser in Pakil which is scheduled on 2013 to split Feeder NO.5-Paete-Pakil feeder into two, which are Paete Feeder and Pakil Feeder. • Installation of automatic circuit recloser along the backbone of Feeder No. 3-Cavinti and Feeder No. 8-Siniloan.	The majority of the existing feeders met the allowable standard for reliability indices (see Table 5.13.4) based on the simulation using historical data of Year 2009. However, Feeder No. 3-Cavinti, Feeder NO.5-Paete-Pakil and Feeder NO.8-Siniloan failed the standard for reliability indices. Feeder No. 5- Paete/Pakil was proposed to ~ave an automatic circuit recloser installed in Pakil by 2013. This project intends to split the said feeder into two, which are Paete Feeder and Pakil Feeder. Feeder No. 3-Cavinti and Feeder No. 8- Siniloan was proposed to have an automatic circuit recloser installed along the backbone. The project if pursued will eventually improve the reliability of the feeders.	2,521,174.00	
	15. Upgrading of Civil Structure of Lumban & PakilSubstations	To upgrade the existing structure of Lumban & Pakil Substation which are dilapidated and made of wooden cross-arms,	1,525,059,20	

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	Construction of Control Power House, 69 kV Incoming Structure and 69kV Equipment Foundation (Air-Brake Switch, Lightning Arrester, Current &Potential Transformers)			
	Other Network CAPEX Projects			
	1. Distribution Transformer Requirement The project is intended to purchase the various sizesof distribution transformers ranging from 10 kVA to75 kVA.	Additional customer also means additional load and installed capacity on the secondary network. Hence, distribution transformer requirements to accommodate this load are also determined.	6,027,836.80	
	2. Secondary Line Requirement The project is intended to purchase secondary line requirements.	In accommodating new customers, FLECO need to expand its secondary network.	15,149,520.66	
	3. Secondary Service Drop Requirement The project is intended to purchase secondary service drop requirements.	To provide secondary service drops for new customers of FLECO.	7,311,586.85	
	4. Electric Meter Requirement The project is intended to purchase electric meter requirements of various types.	The electric cooperative has the inherent obligation to all its memberconsumers within its franchise area to provide efficient, reliable and quality service in compliance to the Distribution Code. With this mandate, FLECO conducted forecasting on the growth of its customers based on historical trend and likewise determine the material requirements for the service connections of new customers.	8,390,868.70	
	Non-Network CAPEX Projects			
	1. Installation of Wireless Connectivity The project includes installation of wireless Connectivity.	• The meter readers need not go to the main office for the downloading/uploading of meter reading data. Interconnection between main office and sub-offices enables them to download/upload data in any suboffices. • Consumer can pay in any sub-offices. • Real time monitoring of collection. • Video monitoring of activities • Communication through IP phones and outlook messenger. • Software for monitoring the computer activities of collection center including load balancer of bandwidth.	2,138,659.04	

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	2. Purchase of Service Vehicle The project is for the acquisition of three (3) unit's service vehicles for technical staff.	Service vehicles are necessary for mobilization of personnel and delivery of service to FLECO's member-consumers.	3,245,382.57	
	3. Purchase of Boom Truck The project is for the acquisition of 1 Unit 2-toner Boom Truck.	The purchase of new boom trucks is necessary to ensure continuous on line maintenance and construction and provide reliable and prompt service to the customers.	4,752,832.00	
	4. Purchase of Engineering Software for Distribution System Analysis	• Distribution System Analysis package is a software for system loss segregation. DUs are required to segregate their respective system loss into technical loss and non-technical loss. • The DUs are mandated to operate reliably in the most economical way possible. In order to execute said mandate, it needs accurate data and analysis.	743,435.61	
	5. Purchase of Tools and Equipment The project is for the purchase of tools and equipment for linemen and technical staff.	To provide logistics support in the operation and maintenance of FLECO's distribution systems.	3,500,179.79	
	6. Purchase of Engineering Software (SYNERGEE)	To equip FLECO of engineering tools necessary in conducting analysis of its distribution systems,	00.0	
	7. Purchase of Communication E UI ment	To provide necessary communication equipment such as handheld radios and mobile radios for the continuous delivery of service	659,702.72	
	8. Installation of Voice Over Internet Protocol	With existing WAN connectivity, FLECO has the capacity to install VolP to interconnect its Main Office in Lumban, Laguna with its nine collection centers in Pagsanjan, Cavinti, Paete, Pakil, Pangil, Siniloan, Famy, Mabitac and Sta. Maria. It will provide faster and reliable way of communication between its main office and afore-mentioned collection centers for free and without an monthl charges.	55,711.64	
	9. Upgrading of Meter Reading, Billing & CollectionSystem	The Read and Bill System will greatly improve the overall meter reading and billing procedure of FLECO.	3,B09,090.00	
Pampanga Rural Electric Service Cooperative, Inc. (PRESCO)	Replacement of Dilapidated Primary and Secondary Lines The project involves the rehabilitation of V-phase backbone lines extending 1.5 kilometers from Brgy. San Jose Malino to Brgy. Culubasa coupled with under-built 2012 secondary lines. Rerouting of distribution line is included	To provide safety to consumers as well as system loss reduction.	708,820.00	November 26, 2011 /August 11, 204

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	to avoid problems of right of way .			
	Replacement and uprating of old and dilapidated distribution transformers	To effectively attain a more reliable and efficient Distribution Transformer Load Management	3,583,399.00	
	Procurement of equipment, materials, tools and gadgets	These are needed in the day to day operation of the cooperative in order to attain efficiency and customer satisfaction.	9,609.604.00	
	Procurement of kwh-meters and service drop wires for the year 2010 to 2013	To accommodate new additional customers.	2,704,573.00	
Negros Oriental I Electric Cooperative, Inc. (NORECO I)	Force Majeure Event Capital Expenditure Project, Re: Repair And Restoration Of Distribution System Destroyed By The February 6, 2012 Earthquake The project consists of the rehabilitation and restoration of damaged distribution line facilities including poles, conductors, fixtures, pole line hardware, house hold meter services, and service drop wires as well as non-network items like computers and printers which were damaged by the 6.9 magnitude earthquake that occurred in February 06, 2012. Heavily devastated by the said earthquake were the municipalities of Guihulngan, La Libertad, Jimalalud, and Tayasan.	To provide safe, adequate, efficient and reliable electric service to its consumers since its distribution line system is the only highway through which electricity from the generating plants passing thru substation power transformers could reach its end-consumers.	4, 705,172.26	June 4, 2012/ August 4, 2014
Lanao Del Norte Electric Cooperative, Inc. (LANECO)	Repair and Restoration of Distribution Lines and Facilities Damaged by Typhoon Pablo in the municipalities of Linamon and Kauswagan, all in the Province of Lanso del Norte	The project was aimed at restoring the power in the franchise areas of LANECO wherein the electric distribution system was damaged by Typhoon Pablo and to provide adequate, safe, efficient and reliable electric service to the member consumers in the coverage area.	3,161,138.00	February 28, 2013/ August 4, 2014
Occidental Mindoro Electric Cooperative, Inc. (OMECO)	Project A - Relocation of Distribution Lines- involves the relocation of distribution lines affected by erosion of river banks, namely: relocation of 0.630 km 3-phase primary line at Brgy. Victoria, Sablayan; relocation of 0.715 km 3-phase primary line and 0.595 km underbuilt secondary line at Brgy. Lagnas, Sablayan; and relocation of 1.6 km, 1-phase primary line at Brgy.Baloc-Baloc, Sablayan. • Project A.1 - Relocation of backbone primary line at Barangay Victoria, Sablayan	The subject backbone distribution lines in .the affected barangays in the municipality of Sablayan are in danger of being eroded due to erosion of river banks and/or changes of river route and continuous deterioration of the river basin, while the rotten poles from Power Barge 106 to OMECO Switchyard are in imminent danger of collapsing. The proposed projects are urgently needed to achieve a safe and reliable power supply in the affected areas.	306,411.00	October 16, 2013/ July 21, 2014

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	• Project A.2 – Relocation of backbone primary line at Barangay Lagnas, Sablayan • Project A.3 – Relocation of primary line at Barangay Baloc-Baloc, Sablayan.		357,990.00 447,845.00	
	Project B - Rehabilitation of Tie Line from Power Barge 106 to OMECO Switchyard. This project covers the replacement of rotten wood poles b transmission class steel poles.		1,919,738.00	
Zamboanga City Electric Cooperative, Inc. (ZAMCELCO)	Rewinding and transporting of of 5 MVA PTX from Recodo to Cabatangan S/S	To address load growth	0.00	November 6, 2012/ June 30, 2014
	Procurement of 1,920 units of kWh meters intended to replace the meters found to be defective.	To comply with the Distribution Service and Open Access Rules (DSOAR) and the Magna Carta for Residential Electricity Consumers MCREC.	3,396,480.00	
	Conversion of Secondary to Primary Metering for Industrial/Bi Customers • Conversion of Secondary to Primary metering for Industrial/Big Customer National Food Authority (NFA), Installed Capacity 3-75 kVA; • Conversion of Secondary to Primary metering for Industrial/Big Customer Technical Skills Development Authority (TESDA), Installed Capacity 3-75 kVA; • Conversion of Secondary to Primary metering for Industrial/Big Customer Technical City Government of Zamboanga (City Hall), Installed Capacity 3-100 kVA; • Conversion of Secondary to Primary metering for Industrial/Big Customer Technical Gilda Chiong, Installed Capacity 3-100 kVA; and • Conversion of Secondary to Primary metering for Industrial/Big Customer	To convert secondary metering outfit to primary metering of the abovementioned customers and to capture energy losses particularly on its installed private distribution transformer and to avoid pilferage of power on its secondary metering outfit thereby reducing the cooperative system loss particularly on core and copper losses being contributed b these customers.	2,053,689.38	

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	Technical Metro Gateway, Installed Capacity 3-100 kVA.			
	Procurement of 4,000 units of kWh meters for Year 2012 • Procurement of Electronic Type of 1-Phase kWh meters with anti-theft capability 240 volts, 10 A up to 60 A rating. Type: 10 (60) Amps, 2000 units • Procurement of Electronic Type of 1-Phase kWh meter with anti-theft capability 240 volts, 10 A up to 60 A rating. Type:5 (60) Amps, 2000 units	To serve the forecasted meter requirement for the residential consumers for year 2012	0.00	
	Procurement of kWh Meters with R.F. Capability, for the installation of EMC,includes the procurement of kWh meters with Radio Frequency capability, installation of distribution transformers, transferring of service drop wires and kWh meter from the premises of the consumers to Elevated Metering Cluster (EMC .	To install kWh meters from the premises of the consumers to Elevated Metering Cluster EMC to reduce system loss.	0.00	
	Procurement of 3-units 69 kV Potential Transformers (PT) with PTR ratio 42000/120 for the energization of additional 5 MVA Power Transformer @ Sangali S/S	This project is for the installation of primary metering in Sangali Substation. This is to commission a newly repaired 5 MVA power transformer New Korea brand at proper metering scheme.	0.00	
	Procurement of 9 units 100 kVAR-single phase, double bushing capacitors for the replacement of defective capacitor bank installed along the distribution lines of Mercedes feeder at Nunez St., Canelar	To improve the power factor	146,250.00	
	Acquisition of Sub-transmission lines from Sangali to Lunzuran	This project is in compliance with the EPIRA that TransCo's STAs shall be divested to the connected DUs.	74,355,951.59	
	Procurement of one (1) unit 20 MVA Power transformer with primary voltage rating at 69 kV delta with a 13.2 kV secondary wye grounded winding with complete accessories to include conservator tanks, cooling pins, On Load	To uprate the Camanchile Load Center Substation by 20 MVA power transformer	0.00	

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	Tap Changer (OLTC), "CERTIFIED BRAND NEW", Three-Phase Oil immersed Power Transformer, for outdoor installation, conservator type, bolted type main tank top cover with standard accessories.			
	Procurement of 70 units of various capacities of Amorphous core type DTs and replacement DTs Transformers of Silicon type core	To maximize the reduction of core and winding loss of DTs on the distribution system	0.00	
	Procurement of 69 kV Primary Metering intended for two Metering Points of NGCP Proposed	To simplify the metering s stem of ZAMCELCO.	0.00	
	Conversion of 13.2 kV single circuit to double circuit from Don Pablo to Gov. Ramos intersection with a total distance of 1.9 km.	To provide continuous electric service to its costumers	0.00	
	Re-routing of distribution lines and re-conductoring primary lines	To reduce down time revenue loss, reduce line losses and strengthen the backbone line by two way switching scheme.	1,019,657.27	
	Procurement and Installation of three (3) units of 3-phase Oil Circuit Recloser along San Roque, Pasonanca, and Mercedes Feeder	To minimize power interruption	1,513,636.50	
	Upgrading of Primary Backbone Lines (San Roque Feeder) from #4 to #4/0 ACSR, from San Roque Petron Gas Station to Entrance Pasay Road	To have a reliable and efficient distribution system in serving ZAMCELCO's consumers	527,293.07	
	Procurement and Installation of 1-phase Oil Circuit Recloser This project is a procurement of single phase reclosers, five (05) units for 50 Ampere and five (05) units for 100 Ampere. These reclosers are to be installed at the single phase line tap of main line at Mercedes feeder with long distribution lines.	To minimize power interruption	450,000.00	
	Procurement of Power Fuse Holder Assembly, SMD-50, 65-E This project is a replacement of one (1)	To improve system reliability	0.00	

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	defective power fuse assembly, pole mounted type, SMD-50, 65-E at Recodo substation.			
	Procurement of thirty two (32) units of Line Fault Indicators	To easily detect and locate the fault in the electric system thereby reducing outage time	0.00	
	Procurement and Installation of fifty (50) units of Current Limiting Fuse (ClF) for distribution transformers	To provide additional protective device to the DTs	250,000.00	
	Procurement and Installation of six (6) units, 1-phase sectionalizer (2-25 A, 2-50 A, & 2-100 A)	To automatically isolate faulted sections of distribution lines.	0.00	
	Procurement of eighty (80) Silicon Post Insulators (9/10 kV) to replace porcelain pin type insulators that were found to be defective	To avoid power outage brought about by broken porcelain pin insulators	185,600.00	
	Procurement of Meter Test equipment, AC Variable Transformer, Load Logger & Voltage Logger Procurement of the following: • 1 unit PWS 3.3 Meter Test Equipment; • 1 unit Load Logger LL-231 3-Phase Starter Kit and 1 unit Voltage Logger (Power Quality Monitor); • 1 unit AC Variable Transformer; • 1 unit Portable Watt-hour Standard; and • 10 units EDMI Remote "Real Time" Metering.	To increase efficiency of operation and for directly monitoring system of electrical parameters	5,420,000.00	
	Procurement of Thermal Scanner/Imager Model Flir E-60	To easily detect abnormal heating caused by loose connections, undersized cables, overload conditions and fault breaker	746,000.00	

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APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	New Connection requirement, including installation of Meters for 7,654 customers	To provide distribution services and connections to its distribution system end users within its franchise area.	12,204,800.00	
Davao Oriental Electric Cooperative, Inc. (DORECO)	Repair and Restoration of Distribution Lines and Facilities Damaged by Typhoon Pablo in the municipalities of Banaybanay, Lupon, San Isidro, Governor Generoso, Baganga, Cateel, Boston and the City of Mati, all in the Province of Davao Oriental	To restore the power in the franchise areas of DORECO wherein the electric distribution system was damaged by Typhoon Pablo and to provide adequate, safe, efficient and reliable electric service to the member consumers in the coverage area.	73,164,520.00	May 30, 2013/ June 2, 2014
Bukidnon Second Electric Cooperative, Inc. (BUSECO)	Restoration and Repair of the damaged distribution facilities for the replacement of the damaged distribution poles (assemblies and accessories), conductors, distribution transformers, kilowatt-hour meters, and additional labor cost expense as damaged by Typhoon Pablo	To continue serving the electricity requirement not only to every household but also to institutions and business establishments in its franchise area.	8,682,014.28	April 8, 2013/ May 19, 2014
City of Olongapo	**1) Refurbishment of Existing Mercurio Substation (10/12/15 MVA 69/13.8 kV Transformer including Accessories)**			
	a. Comprehensive testing of idle power transformer (TR1); 2011 b. Inspection of transformer's on-load tap changer contacts; c. Replacement of insulating oil of TR1's on-load tap changer, nitrogen gas topping and other related works; d. Replacement of defective 69-kV SF6 circuit breaker with a new one; e. Construction of concrete foundation for the replacement 69-kV SF6 circuit breaker; f. Testing and commissioning works for the circuit breaker and associated protection relays; g. Testing of substation protection relays; and h. Replacement of disconnect switches for the outgoing feeders.	To address load growth and provide service to the incoming SM mall in Olongapo City by 2011. The estimated load requirement of the mall is about two (2) megawatts"	3,695,508.96	February 23, 2012/ January 13, 2014
	2) Reconductoring/Upgrading of OCPUD's Mercurio and CBMU Substations 13.8 kV Feeders and Construction of Additional 13.8 kV Feeder of Mercurio substation			
	a. Replacement of thirty six (36) defective wooden poles with concrete and steel poles;	To increase the capacity of the feeder to support the additional load of Olongapo - SM Mall. It will also improve the power quality and reduce the technical losses of the said lines. Moreover, it will also improve the reliability of the feeder by	11,033,440.00	

Annex 15. ERC Approved Capital Expenditure Projects as of 31 October 2014

APPLICANT	PROJECT DESCRIPTION	RATIONALE	PROJECT COST (MPhP)	DATE FILED/ APPROVED
	b. Replacement of wooden cross-arms, insulators, clamps and pole-line hardware; c. Reconductoring of 4.2 kilometers line (assorted small wires sizes) with 336.4 MCM ACSR; d. Installation of 4.2 kilometers neutral wire using 1/0 AWG', e. Installation of additional 260 meters feeder line from Mercurio Substation to Otero road, using 336.4MCM;and f. Installation of two (2) automatic circuit reclosers and three (3) disconnect switches along the line.	installing reclosers.		
	3) Rehabilitation of 69 kV Lines			
	The project consists of the following activities: a. Replacement of dilapidated 69 kV poles and 2012 structures; b. Replacement of missing 1-span overhead neutral line; and c. Re-enforcement and correction of lean in poles.	• There is a need to rehabilitate the 69 kV line serving the Mercurio substation by replacing some rotten wood poles and structures with steel poles. These are already in varying degrees of deterioration and in danger of toppling down. When this happens, the substation will be subjected to prolonged interruption since the line is located on a hill and is not accessible to heavy equipment for the transport and erection of the replacement poles. • The major benefit which will be derived from this project is reliability improvement of the subtransmission system of OCPUD, in particular, and the entire distribution system, in general.	2,810,478.00	

Source: ERC website

Annex 16. NPC-Incurred Amount on Grant of Mandatory Rate Reduction

Billing Month	MERALCO	REST OF LUZON	TOTAL LUZON	VISAYAS	MINDANAO	TOTAL
2001						1,682,000,000.00
2002						3,051,860,000.00
2003						3,223,300,000.00
2004						3,467,100,000.00
2005						3,267,100,000.00
2006						2,624,120,000.00
2007						2,679,840,000.00
2008	786,079,461.86	832,317,675.85	1,618,397,137.71	561,119,367.51	635,133,615.12	2,814,650,120.34
January-09	47,806,643.10	62,542,055.24	110,348,698.34	47,015,229.93	55,007,710.33	212,371,638.60
February-09	42,273,187.20	64,217,843.86	106,491,031.06	50,088,622.44	58,532,264.35	215,111,917.85
March-09	44,040,781.71	72,167,723.34	16,208,505.05	40,353,083.65	45,253,008.77	201,814,597.47
April-09	53,118,020.70	72,821,969.18	125,939,989.88	54,326,480.12	59,947,414.10	240,213,884.10
May-09	64,030,998.00	98,241,624.26	162,272,622.26	51,704,193.10	59,122,138.86	273,098,954.22
June-09	68,204,346.90	56,650,477.52	124,854,824.42	51,278,066.68	58,609,301.03	234,742,192.13
July-09	63,628,967.70	65,161,685.28	128,790,652.98	48,742,591.72	54,649,917.21	232,183,161.91
August-09	58,986,725.10	61,356,596.29	120,343,321.39	48,943,598.40	57,173,785.23	226,460,705.02
September-09	50,732,551.80	69,253,355.08	119,985,906.88	49,727,759.66	61,284,765.87	230,998,432.41
October-09	38,966,161.50	55,868,121.86	94,834,283.36	50,266,616.81	58,345,501.27	203,446,401.44
November-09	31,832,086.00	19,908,900.00	51,740,986.00	37,384,175.00	60,168,998.00	149,294,159.00
December-09	24,530,890.00	7,880,404.00	32,411,294.00	37,104,752.00	61,082,278.00	130,598,323.00
January-10	23,572,436.00	5,680,029.00	29,252,465.00	35,947,500.00	61,143,896.00	126,343,861.00
February-10	16,988,494.00	7,383,173.00	24,371,667.00	35,584,880.00	57,003,485.00	116,960,032.00
March-11	30,078,723.00	7,188,075.00	37,266,798.00	32,586,053.00	44,935,288.00	114,788,139.00
April-10	27,989,214.10	6,994,305.08	34,983,519.18	33,097,892.60	55,781,074.41	123,862,486.19
May-10	26,945,954.12	8,335,549.24	35,281,503.36	46,852,306.73	58,602,559.43	140,736,369.52
June-10	25,829,411.99	7,667,101.81	33,496,513.80	38,496,958.90	66,213,086.12	138,206,558.82
July-10	7,577,968.93	9,467,995.19	17,045,964.12	37,035,208.59	56,583,928.26	110,665,100.97
August-10	8,449,485.54	8,726,414.90	17,175,900.44	33,892,800.66	57,451,146.62	108,519,847.72
September-10	8,625,603.24	6,891,672.75	15,517,275.99	35,104,382.96	57,349,652.55	107,971,311.50
October-10	9,210,107.25	6,795,056.53	16,005,163.78	33,663,960.20	58,237,764.61	107,906,888.59
November-10	8,996,042.05	6,614,179.19	15,610,221.24	32,882,418.91	62,022,299.56	110,454,939.71
December-10	7,929,051.20	1,951,050.19	9,880,101.39	32,407,720.28	78,841,735.75	121,129,557.42
January-11	12,866,368.66	4,279,707.63	17,146,076.29	30,440,344.80	65,272,213.70	112,858,634.79
February-11	11,901,724.80	4,185,132.98	16,086,857.78	26,155,577.14	57,774,813.96	100,017,248.88
March-11	9,768,215.70	3,969,708.66	13,737,924.36	23,742,284.14	51,874,251.31	89,354,459.81
April-11	5,172,690.30	4,263,910.08	9,436,600.38	20,084,581.86	58,855,190.04	88,376,372.28
May-11	8,387,174.86	4,784,938.17	13,172,113.03	20,529,433.51	68,402,330.52	102,103,877.06
June-11	11,310,086.13	4,973,382.86	16,283,468.99	22,250,391.59	62,851,407.75	101,385,268.33
July-11	10,547,112.05	4,653,784.10	15,200,896.15	22,352,448.64	60,225,893.67	97,809,238.46
August-11	9,207,207.46	4,691,365.50	13,898,572.96	20,978,035.54	62,271,564.88	97,148,173.38
September-11	7,076,107.39	4,610,040.19	11,686,147.58	20,868,424.70	62,829,132.99	95,383,705.27
October-11	5,551,114.71	4,515,770.27	10,066,884.98	21,339,283.45	62,856,303.08	94,262,471.51
November-11	3,969,132.06	4,583,955.34	9,126,664.00	20,614,468.60	64,639,733.34	94,380,865.94
December-11	5,463,569.37	4,143,157.34	9,606,726.71	19,708,235.60	64,896,365.46	94,211,327.77
January-12	934,471.58	1,868,028.00	2,802,499.58	18,851,497.97	64,076,315.36	85,730,312.91
February-12	1,311,195.54	1,839,662.40	3,150,857.94	19,181,446.72	60,517,280.85	82,849,585.51
March-12	1,392,820.86	1,853,163.30	3,245,984.16	18,412,336.44	54,976,695.50	76,635,016.10
April-12	1,555,958.33	2,111,709.30	3,667,667.63	17,061,517.71	57,238,872.87	77,968,058.21
May-12	1,554,330.71	2,111,281.50	3,665,612.21	18,500,897.45	61,089,720.41	83,256,230.07
June-12	1,615,760.64	1,958,480.10	3,574,240.74	20,209,017.40	65,117,974.74	88,901,232.88
July-12	1,496,653.14	1,913,728.50	3,410,381.64	19,926,688.18	56,887,839.01	80,224,908.83
August-12	1,527,035.72	1,707,646.50	3,234,682.22	18,564,718.00	60,684,395.62	82,483,795.84
September-12	1,475,938.50	1,784,565.90	3,260,504.40	18,843,080.75	60,119,644.27	82,223,229.42
October-12	1,445,567.31	-	1,445,567.31	19,489,295.83	57,886,442.12	78,821,305.26
November-12	1,532,946.47	-	1,532,946.47	18,408,963.30	57,957,528.10	77,899,437.87
December-12	1,246,604.82	-	1,246,604.82	18,870,037.99	57,979,575.82	78,096,218.63
January-13	1,007,519.67	-	1,007,519.67	19,039,165.16	62,591,536.19	82,638,221.02
February-13	881,888.40	-	881,888.40	19,295,027.19	61,232,145.13	81,409,060.72
March-13	1,098,789.00	-	1,098,789.00	18,295,974.54	45,672,696.54	65,067,460.08
April-13	1,343,510.00	-	1,343,510.00	16,843,335.83	64,181,388.54	82,368,234.37
May-13	1,377,485.01	-	1,377,485.01	19,753,397.40	62,236,657.34	83,367,539.75
June-13	-	-	-	20,699,689.30	62,463,877.66	83,163,566.96
July-13	-	-	-	19,681,740.89	59,494,873.07	79,176,613.96
August-13	-	-	-	18,639,343.98	54,104,257.05	72,743,601.03
September-13	-	-	-	18,137,267.00	52,477,631.87	70,614,898.87
October-13	-	-	-	18,065,812.58	56,117,216.45	74,183,029.03
November-13	-	-	-	15,699,537.12	60,366,832.88	76,066,370.00
December-13	-	-	-	8,865,660.13	58,993,632.09	67,859,292.22
January-14	-	-	-	10,328,236.47	58,427,707.49	68,755,943.96
February-14	-	-	-	13,025,567.47	59,216,823.01	72,242,390.48
March-14	-	-	-	11,644,535.68	39,262,265.51	50,906,801.19
April-14	-	-	-	12,527,922.91	72,062,522.04	84,590,444.95

Annex 16. NPC-Incurred Amount on Grant of Mandatory Rate Reduction

Billing Month	MERALCO	REST OF LUZON	TOTAL LUZON	VISAYAS	MINDANAO	TOTAL
May-14	-	-	-	17,180,571.12	64,643,993.68	81,824,564.80
June-14	-	-	-	17,537,406.82	82,586,954.68	100,124,361.50
July-14	-	-	-	4,293,714.11	56,873,580.48	61,167,294.59
August-14	-	-	-	17,321,316.66	61,838,659.72	79,159,976.38
September-14	-	-	-	16,845,371.92	68,043,039.88	84,888,411.80
TOTAL	**1,700,442,292.18**	**1,692,886,152.26**	**3,293,902,021.04**	**2,274,333,814.75**	**4,254,118,552.12**	**29,917,644,386.91**

Source: NPC