LUZON POWER SITUATION



POWER SECTOR SITUATIONER

Transmission Line Interconnection

Mindanao is currently not yet connected with the Luzon-Visayas Grid

Interconnection Line Capacity

- Leyte-Luzon (440 MW)
- Leyte-Cebu (400 MW)
- Cebu-Negros (200 MW)
- Negros Panay (100 MW)
- Leyte-Bohol (100 MW)



Note: Transparent islands in the above diagram are not covered by NGCP's network.

PHILIPPINE POWER SITUATIONER

Capacity and Demand

GRID	Installed Capacity	Dependable Capacity	Available Capacity at Peak	Peak Hours	Peak Demand	Actual Reserve at Peak	Required Reserve Margin
LUZON	11,739	10,824	8,944	2:00 PM	7,889	1,055	1,610
VISAYAS	2,402	2,037	1,918	7:00 PM	1,489	429	260
MINDANAO	2,022	1,616	1,332	7:00 PM	1,252	80	250
TOTAL	16,162	14,477	12,194				

Notes:

- Installed and Dependable capacity as of April 2012
- Available Capacity at peak demand based on NGCP-Daily Operations Report
- Peak Demand as of September 2012
- Required Reserve Margin is 4 % of Peak Demand for Frequency Regulation and Largest Unit both for Contingency and Dispatchable Reserve
 - 647 MW Largest Unit for Luzon
 - 100 MW Largest Unit for Visayas and Mindanao

Luzon Power Sector Situationer

Capacity and Demand 2012



LUZON SUPPLY-DEMAND SITUATION

January to September 2012



Source: NGCP Daily Operations Report (DOR)



LUZON SUPPLY-DEMAND Draft 2012-2030 Outlook



Luzon Supply-Demand Outlook, 2012-2030





Luzon grid needs a total additional capacity of 10,500 MW onwards to 2030

A 600 MW new capacity is needed starting 2016 to meet the demand and required reserve

Private Sector Initiated Power Projects

Luzon Grid, 2012-2030 PDP



*DOE List of Power Projects as of 15 Sep 2012

Note: Indicative power projects are those which are at different stages of project developments prior to financial closing.

COMMITTED POWER PROJECTS

735 MW

21 MW

67.5 MW

25.2 MW

20 MW

868.7 MW

2020

150 MW Kanan

Hvdro Power

3,075 MW

1,150 MW

150 MW

466 MW

32.3MW

120 MW

5.143.3 MW

RURAL ELECTRIFICATION



Increased Energy Access Barangay Electrification (as of 31 August 2012)

Island Grid	No. of Brgys.	Energized	Unenergized	% Electrification
Luzon	20,486	20,486	-	100.00
Visayas	11,442	11,442	-	100.00
Mindanao	10,046	10,037	9	99.91
Total	41,974	41,965	9	99.98



Increased Energy Access Household Electrification (as of 31 December 2011)

Island Grid	No. of HH (million)	Energized (million)	Unenergized (million)	% Electrification
Luzon	11.89	9.29	2.60	78.1
Visayas	3.95	2.64	1.31	66.9
Mindanao	4.70	2.49	2.21	52.9
Total	20.54	14.42	6.12	70.2



Increased Energy Access Sitio Electrification (as of 30 June 2012)

Island Grid	No. of Sitios	Energized	Unenergized	% Electrification
Luzon	37,783	27,376	10,407	72.45
Visayas	37,610	29,562	8,048	78.60
Mindanao	39,699	24,798	14,901	62.46
Total	115,092	81,736	33,356	71.01

Note:

* Source of data is NEA's Status of Energization as of 30 June 2012



Increased Energy Access Electrification Program

	2011	1H 2012
Households		
ER 1-94*	7,550	10,567
Household Electrification Program (HEP)	2,750	On-going**
Solar Photovoltaic (PV) Mainstreaming	2,000	
NEA	64,440	9,204
Total	76,740	19,771

Note:

- * ER 1-94 pertains to program on Benefits to Host Communities and is not provided with government appropriations
- ** Electrification of 3,450 households for completion by September 2012 (3,200 of which are solar and 250 are micro-hydro)





Increased Energy Access Electrification Program

	2011	1H 2012
Sitios		
ER 1-94*	302	464
Solar Photovoltaic (PV) Mainstreaming	66	
NEA	2,148	875
TOTAL	2,516	1,339



Note:

* ER 1-94 pertains to program on Benefits to Host Communities and is not provided with government appropriations



Measurable Targets Rural Electrification

YEAR	HOUSEHOLDS	SITIOS
2011	39,773	1,520
2012	142,110	4,487
2013	228,300	3,783
2014	612,100	12,114
2015	532,250	10,537
2016	5,400	
TOTAL	1,559,833	32,441

Note: Based on the targets of DOE's Household Electrification Program (HEP) using RE and NEA's Sitio Electrification Program (SEP)



Measurable Targets NEA's Proposed Sitio/Puroks Electrification Projects for 2012

Luzon	Number of Sitios/Puroks
CAR	180
Region I	126
Region II	157
Region III	284
Region IV-A	211
Region IV-B	257
Region V	204
TOTAL	1,419



Measurable Targets NEA's Proposed Sitio/Puroks Electrification Projects for 2012

Visayas	Number of Sitios/Puroks
Region VI	446
Region VII	354
Region VIII	284
TOTAL	1,084



Plans and Programs Rural Electrification



- Achieve 90.0 percent household electrification by 2017 and 100 percent sitio electrification by 2015
- Formulate Household Electrification Development Plan
- Pursue development and implementation of innovative service delivery mechanisms to increase household connections



END OF PRESENTATION

LUZON POWER SITUATION

