

in cooperation with



# **DEPARTMENT OF ENERGY INTERRUPTIBLE LOAD PROGRAM SUMMIT FOR CONTESTABLE CUSTOMERS**

October 30, 2014 | 1:00 PM - 4:00 PM  
Multipurpose Hall, Meralco Orange Fitness Center  
Ortigas Avenue, Pasig City



# LUZON SUPPLY-DEMAND OUTLOOK



Revised Outlook (based on the data as of 27 October 2014)

- With **Maintenance** and **Forced Outage**

2015 Luzon Outlook for Summer Period	MARCH 2015					APRIL 2015					MAY 2015					JUNE 2015					JULY 2015				
March to June 2015 extended to July	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
	28-M6	07-13	14-20	21-27	28-A3	04-10	11-17	18-24	25-M1	02-08	09-15	16-22	23-29	30-J5	06-12	13-19	20-26	27-J3	04-10	11-17	18-24	25-31			
Installed Capacity	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769				
Dependable Capacity	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389				
Existing Available Capacity (less PO)	9,079	8,922	8,844	8,934	8,855	8,476	8,751	9,666	9,676	9,732	9,772	10,102	10,012	9,715	9,625	9,625	9,453	9,418	9,238	9,304	9,324				
+ Committed Capacity	245	245	245	295	445	442	442	442	453	397	397	397	415	391	391	391	541	563	563	563	563				
Available Capacity (less PO plus Committed)	9,324	9,167	9,089	9,229	9,299	8,918	9,193	10,108	10,129	10,129	10,169	10,499	10,427	10,106	10,016	10,016	9,994	9,981	9,801	9,867	9,887				
- Estimated Forced Outage	631	631	631	631	631	712	712	712	712	642	642	642	642	858	858	858	858	856	856	856	856				
Available Capacity (less PO+FO)	8,693	8,536	8,458	8,598	8,668	8,206	8,481	9,396	9,417	9,488	9,528	9,858	9,786	9,248	9,158	9,158	9,136	9,125	8,945	9,011	9,031				
- System Peak Demand	8,210	8,280	8,350	8,480	8,110	8,290	8,660	8,730	9,013	8,860	8,940	9,017	9,000	8,790	8,820	8,750	8,640	8,680	8,520	8,610	8,680				
<b>GROSS RESERVE</b>	483	256	108	118	558	(84)	(179)	666	404	628	588	841	786	458	338	408	496	445	425	401	351				
Req'd Regulating Reserve (RR)	328	331	334	339	324	332	346	349	361	354	358	361	360	352	353	350	346	347	341	344	347				
Req'd Contingency Reserve (CR)	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647				
Req'd Dispatchable Reserve (DR)	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647	647				
<b>NET RESERVE (Gross - RR)</b>	<b>154</b>	<b>(75)</b>	<b>(226)</b>	<b>(221)</b>	<b>234</b>	<b>(416)</b>	<b>(526)</b>	<b>317</b>	<b>43</b>	<b>273</b>	<b>230</b>	<b>480</b>	<b>426</b>	<b>107</b>	<b>(14)</b>	<b>58</b>	<b>151</b>	<b>97</b>	<b>84</b>	<b>56</b>	<b>3</b>				
<b>NET RESERVE' (Gross - RR - 647)</b>	<b>(493)</b>	<b>(722)</b>	<b>(873)</b>	<b>(868)</b>	<b>(413)</b>	<b>(1,063)</b>	<b>(1,173)</b>	<b>(330)</b>	<b>(604)</b>	<b>(374)</b>	<b>(417)</b>	<b>(167)</b>	<b>(221)</b>	<b>(540)</b>	<b>(661)</b>	<b>(589)</b>	<b>(496)</b>	<b>(550)</b>	<b>(563)</b>	<b>(591)</b>	<b>(644)</b>				

**New Development:** Petron capacity was originally reflected in available capacity at 60MW but Refinery Master Plant will be in full blast by next year thus the capacity that will be exported to the grid will be reduced to 10 MW.

**Note:**

- Possible Manual Load Dropping on Red Alert Status
- Regulating Reserve, Refers to a Generating Unit that assists in Frequency Control by providing automatic Primary and/or Secondary Frequency response, equivalent to 4% of Peak Demand
- Contingency Reserve, Generating Capacity that is intended to take care of the loss of the largest Synchronized Generating Unit or the power import from a single Grid interconnection, whichever is larger. Contingency Reserve in Luzon is 647 MW

# Additional Capacity (as of 17 October 2014)

Power Plant	Capacity (MW)	When Committed (2014)	Remarks
Avion	100	July	<ul style="list-style-type: none"> <li>Moved target operation earlier to 15 April 2015, from October 2015</li> </ul>
Millenium Energy Inc. (Limay)	36	August	<ul style="list-style-type: none"> <li>Uprating of Limay CC with additional 36 MW to be operational by early March 2015</li> </ul>
Bauang Rehab	20	August	<ul style="list-style-type: none"> <li>Uprating with additional 20 MW to be operational by early March 2015</li> </ul>
JG Summit (Batangas)	60	August	<ul style="list-style-type: none"> <li>60 MW accumulated SGFs in Pasig, Laguna and Batangas for verification</li> <li>Target interconnection, January 2015</li> </ul>
Botocan (Laguna)	20	August	<ul style="list-style-type: none"> <li>Target interconnection of Caliraya-Botocan Line on December 2014</li> </ul>
Millenium Energy Inc. (Navotas)	100	September	<ul style="list-style-type: none"> <li>Rehab is on-going</li> <li>Target Completion: early March 2015</li> </ul>
MERALCO ILP	118	October	<ul style="list-style-type: none"> <li>Registered 155 MW</li> <li>Ongoing negotiations for 81 MW</li> <li>50% consideration for both registered and potential</li> </ul>
<b>TOTAL</b>	<b>454</b>		




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Installed Capacity	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769	12,769				
Dependable Capacity	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389	11,389				
Existing Available Capacity (less PO)	9,079	8,922	8,844	8,934	8,855	8,476	8,751	9,666	9,676	9,732	9,772	10,102	10,012	9,715	9,625	9,625	9,453	9,418	9,238	9,304	9,324				
+ Committed Capacity	245	245	245	295	445	442	442	442	453	397	397	397	415	391	391	391	541	563	563	563	563				
Available Capacity (less PO plus Committed)	9,324	9,167	9,089	9,229	9,299	8,918	9,193	10,108	10,129	10,129	10,169	10,499	10,427	10,106	10,016	10,016	9,994	9,981	9,801	9,867	9,887				
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<b>NET RESERVE (Gross - RR)</b>	<b>154</b>	<b>(75)</b>	<b>(226)</b>	<b>(221)</b>	<b>234</b>	<b>(416)</b>	<b>(526)</b>	<b>317</b>	<b>43</b>	<b>273</b>	<b>230</b>	<b>480</b>	<b>426</b>	<b>107</b>	<b>(14)</b>	<b>58</b>	<b>151</b>	<b>97</b>	<b>84</b>	<b>56</b>	<b>3</b>				
<b>NET RESERVE' (Gross - RR - 647)</b>	<b>(493)</b>	<b>(722)</b>	<b>(873)</b>	<b>(868)</b>	<b>(413)</b>	<b>(1,063)</b>	<b>(1,173)</b>	<b>(330)</b>	<b>(604)</b>	<b>(374)</b>	<b>(417)</b>	<b>(167)</b>	<b>(221)</b>	<b>(540)</b>	<b>(661)</b>	<b>(589)</b>	<b>(496)</b>	<b>(550)</b>	<b>(563)</b>	<b>(591)</b>	<b>(644)</b>				
Additional Capacity 	354	354	354	354	354	354	454	454	454	454	454	454	454	454	454	454	454	454	454	454	454				
<b>NET RESERVE'' (Net Res' + Addl Capacity)</b>	<b>(139)</b>	<b>(368)</b>	<b>(519)</b>	<b>(514)</b>	<b>(59)</b>	<b>(709)</b>	<b>(719)</b>	<b>124</b>	<b>(150)</b>	<b>80</b>	<b>37</b>	<b>287</b>	<b>233</b>	<b>(86)</b>	<b>(207)</b>	<b>(135)</b>	<b>(42)</b>	<b>(96)</b>	<b>(109)</b>	<b>(137)</b>	<b>(190)</b>				

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**Note:**

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# Concerns

Power Plant	Concerns
Malaya Unit 1	<ul style="list-style-type: none"> <li>For overhaul</li> <li>If overhauling completed by Summer 2015, Unit 1 cannot run simultaneously with Unit 2 due to fuel delivery and storage constraints</li> </ul>
Malaya Unit 2	<ul style="list-style-type: none"> <li>Limited at 230 MW</li> </ul>
SLPGC	<ul style="list-style-type: none"> <li>On-schedule commissioning at the earliest April 1, 2014</li> </ul>
Millenium Energy Inc. (MEI), Navotas	<ul style="list-style-type: none"> <li>Rehab is on-going</li> <li>Photo finish at 01 March 2015</li> <li>Full availability of capacity requires any of the following: 1) MERALCO relaxing N-1 in the distribution line where MEI will be connected; or 2) need to have separate lines which is being discussed with NGCP. There are other permitting issues in the leasing of land for the substation and route of the transmission lines that will traverse the LGU and Philippine Fishport Development Authority properties.</li> <li>If not addressed, capacity will be limited to 54 MW during times that the existing line will also be used by TMO.</li> </ul>
MEI (Limay)	<ul style="list-style-type: none"> <li>Photo finish at 01 March 2015</li> </ul>
Avion	<ul style="list-style-type: none"> <li>Photo finish at 15 April 2015</li> </ul>
Buang Rehab	<ul style="list-style-type: none"> <li>Photo finish at 01 March 2015</li> </ul>
MERALCO ILP	<ul style="list-style-type: none"> <li>Operates only on Red Alert</li> </ul>



