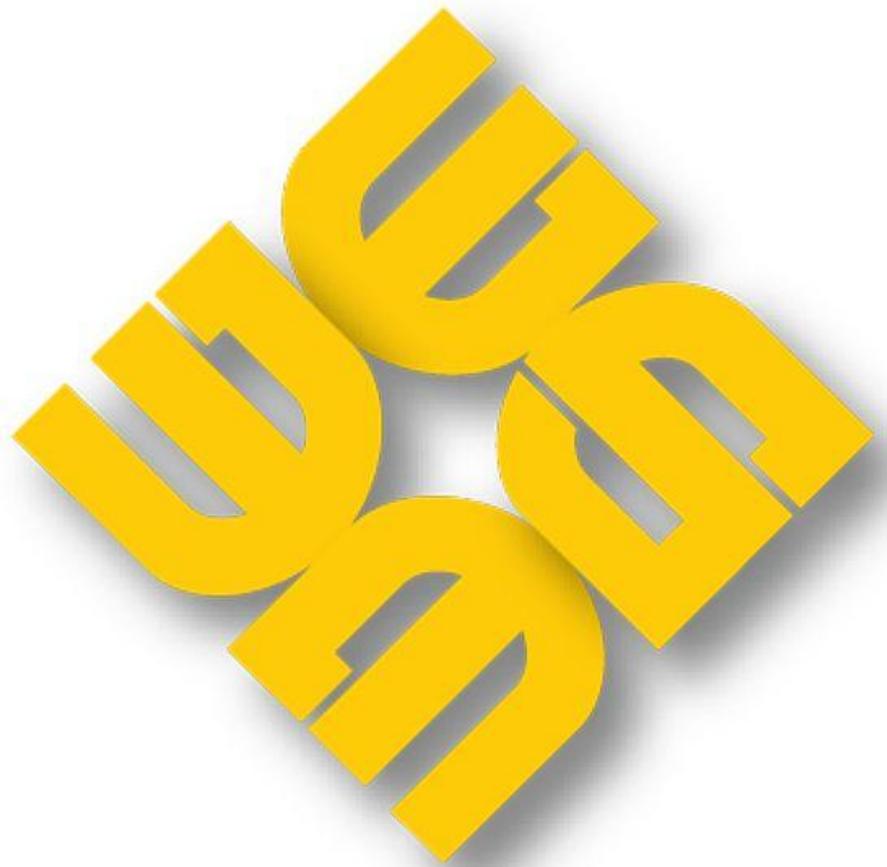


MAG-MMAR-2019-06

MONTHLY MARKET ASSESSMENT REPORT

For the Billing Period 26 May to 25 June 2019



**PHILIPPINE
ELECTRICITY
MARKET
CORPORATION**

**MARKET ASSESSMENT GROUP
(MAG)**

Monthly Market Assessment Report for June 2019 Billing Month

1. Summary

The June billing month was still marked by a growing level of demand as hot temperatures continue related to the summer season. Meanwhile, effective supply decreased due to an increase in the outage capacity mainly due to forced outages of coal and natural gas plants. Following the forced outages of major coal plants which submit relatively lower offers, the market prices for June billing period increased by 16% at PhP7,770/MWh compared to May with an average price of PhP6,652/MWh.

Market intervention was declared on 07 June (1400H-1700H), 18 June (1400H-1500H) and 20 June (1400H-1700H).

2. Market Outcomes

2.1. Capacity Profile

At the start of the June billing month, the WESM registered capacity increased at 19,941 MW due to the registration of the additional 75-MW Solar facility of Solar Philippines Tarlac Corporation.

Of the said total WESM registered capacity, only about 63 percent or an average of 12,564 MW was offered in the market.

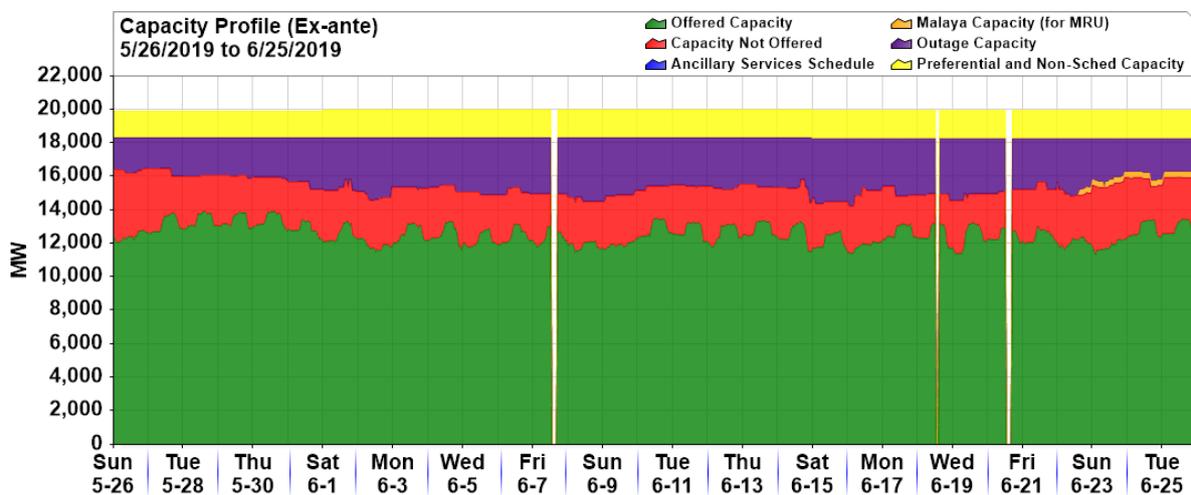


Figure 1. Capacity Profile

	June 2019		May 2019	
	Average (in MW)	% of RegCap	Average (in MW)	% of RegCap
Preferential and Non-Sched Capacity	1,632	8%	1,573	8%
Outage Capacity	2,941	15%	2,099	11%
Malaya Capacity (for MRU)	350	2%	300	2%
Capacity Not Offered	2,775	14%	3,693	19%
Offered Capacity	12,564	63%	12,438	62%
Registered Capacity (by the end of the billing month)	19,941		19,902	

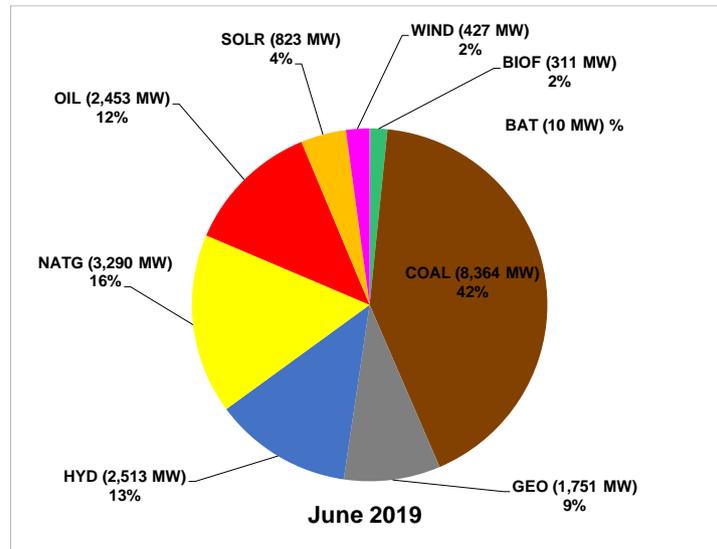


Figure 2. Registered Capacity Mix, June 2019

2.2. Outage Capacity

Higher level of capacity on outage was recorded this month at 2,945 MW compared to an average of 2,114 MW in May.

About 15 percent of the total registered capacity or an average of 2,941 MW were on plant outage. Bulk of which, at 51 percent, were related to forced outages, averaging at 1,517 MW. Planned outages, averaging at 779 MW, accounted for 26 percent of the total outage capacity.

Based on type of resource, coal plants contributed 50 percent or an average of 1,468 MW of the total outage capacity this month which is 9 percent higher than previous month with 871 MW due to force outage of major coal and natural gas plants of QPPL unit 1, Sual unit 2, GN Power Mariveles unit 1 and San Lorenzo unit 2.

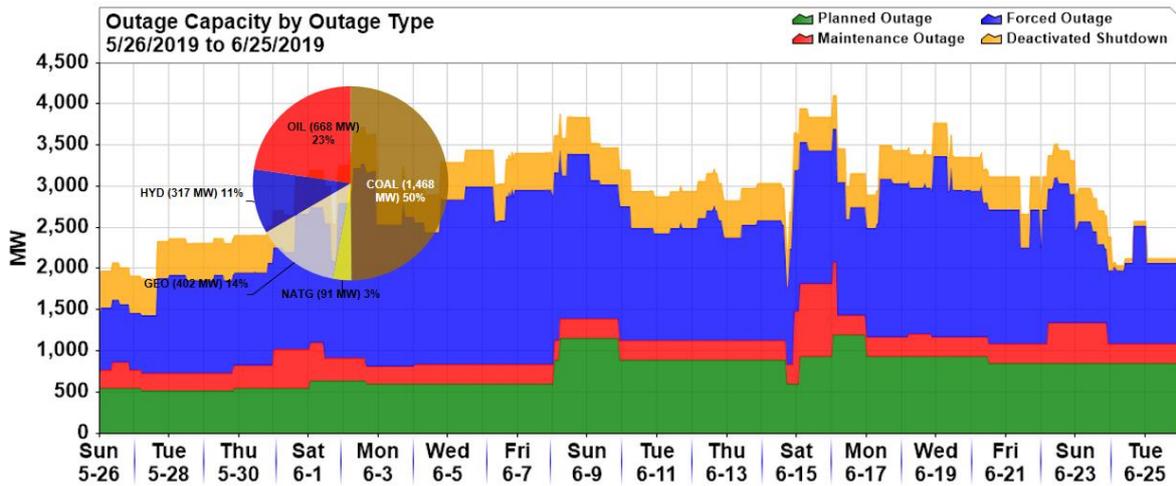


Figure 3. Outage Capacity by Outage Category

2.3. Supply and Demand

Slightly lower average effective supply level was observed this month, decreasing by 0.2 percent, at 12,998 MW from 13,030 MW in the previous month. Meanwhile, demand plus reserve schedule also increased by 1.2 percent to an average of 12,030 MW from last month's 11,890 MW as hot temperatures continued to prevail due to the summer period. Driven by an increase in demand, supply margin tightened to an average of 955 MW from 1,136 MW in May.

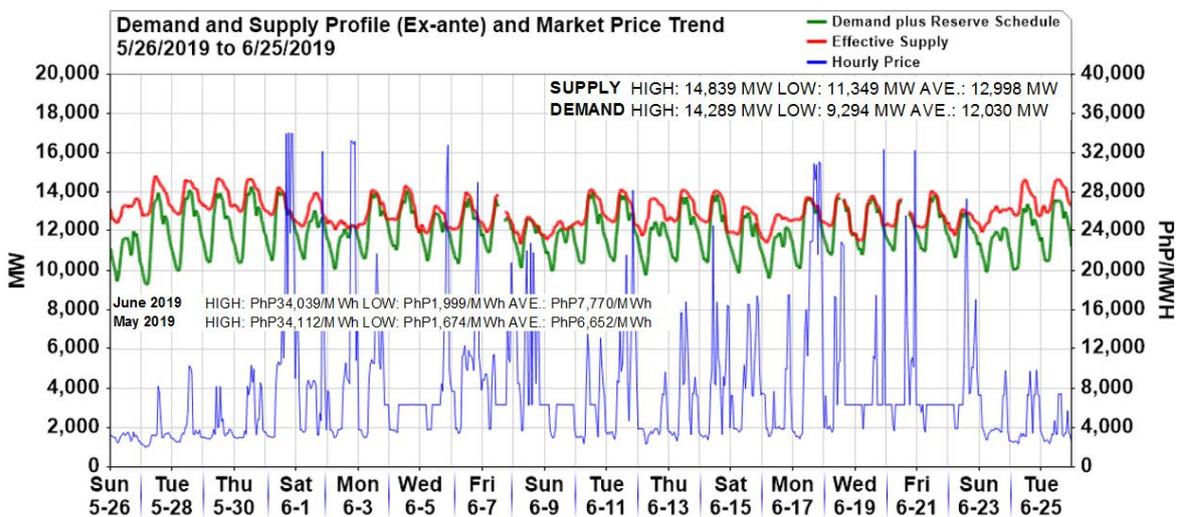


Figure 4. Demand and Supply Profile vs. Market Prices

2.4. Market Prices

Market prices recorded a higher average of PhP7,770/MWh from previous month's PhP6,652 brought about by tighter supply margin. In addition, major coal and natural gas plants of QPPL unit 1, Sual unit 1, Mariveles unit 1 and San Lorenzo unit 2 were on forced outage resulting in lower effective supply.

3. Structural Competition Indices

3.1. Pivotal Plants

The market RSI fell below the 100-percent mark at 70.6 percent of the time in the June billing month, indicating the presence of pivotal suppliers during the period. This was higher than previous month's 61.8 percent following the tighter supply margin this month. Most frequent pivotal suppliers were Sual CFTPP, Ilijan NGPP and Sta. Rita NGPP.

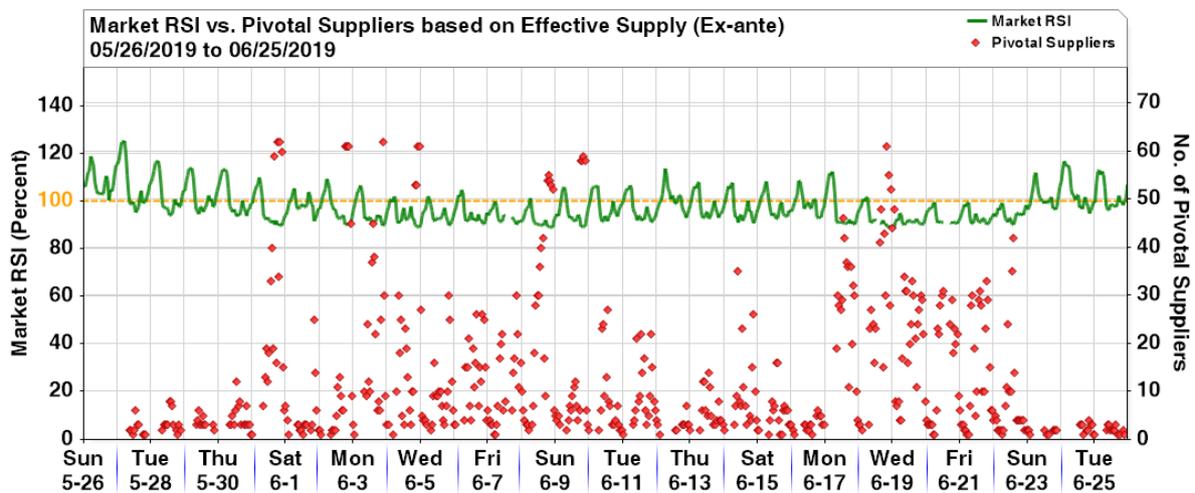


Figure 5. Market RSI vs. Pivotal Suppliers

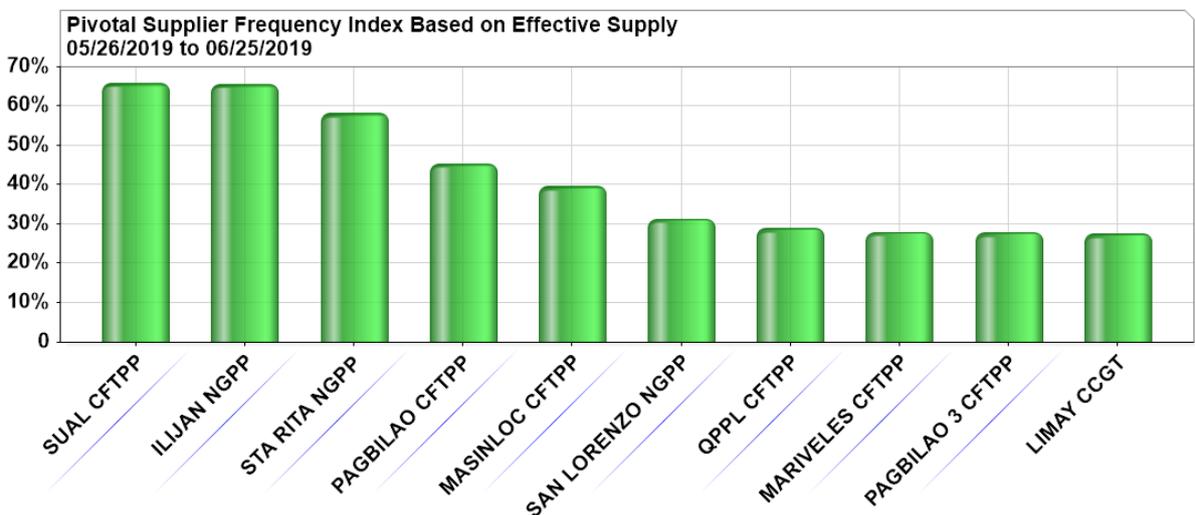


Figure 6. Top Pivotal Plants

3.2. Market Concentration

San Miguel Corporation (SMC), Aboitiz Power (AP), First Gen Corporation (FGC) and Power Sector Asset and Liabilities Management (PSALM) continued to dominate the market with a combined market share of 69.1 percent of the total registered capacity in the WESM. SMC held the top spot at 24 percent followed by AP (20 percent), FGC (14 percent) and PSALM (11 percent).

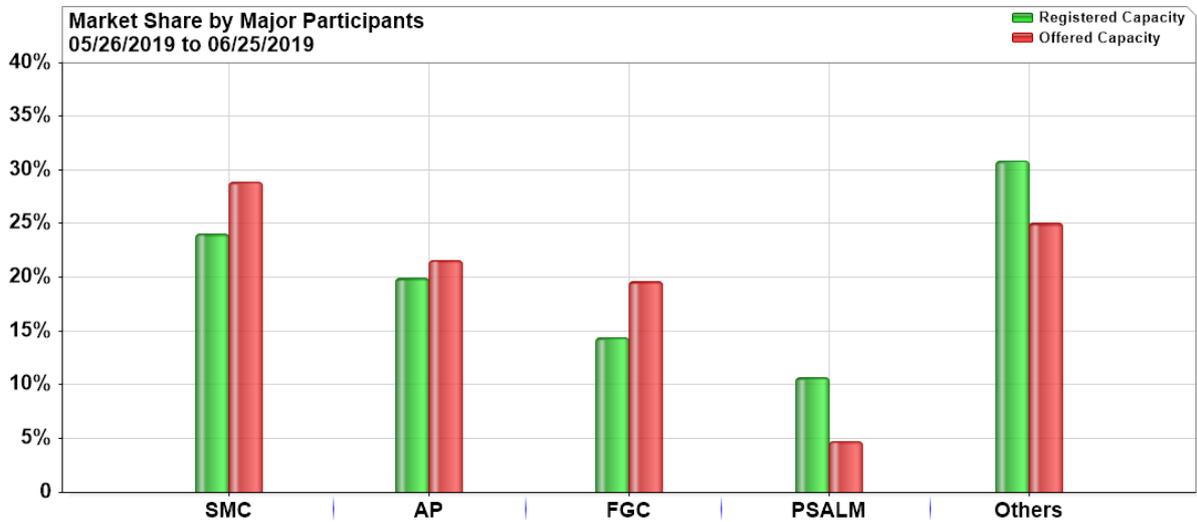


Figure 7. Market Share

With the increase in the reported outage for the billing month, the market shares of SMC and FGC based on offered capacity decreased to 28.8 percent and 0.6 percent, respectively. Meanwhile, AP held a market share of 21.6 percent. Accordingly, the Herfindahl-Hirschman Index (HHI) calculated based on offered capacity by major participants' grouping indicated a concentrated market for 58.04 percent of the time and moderately concentrated market for 41.96 percent. Meanwhile, trading intervals 1400H-1700H (07 June), 1400H-1500H (18 June) and 1400H-1700H (20 June) were affected by the declaration of Market Intervention events initiated by the System Operator due to generation deficiency.

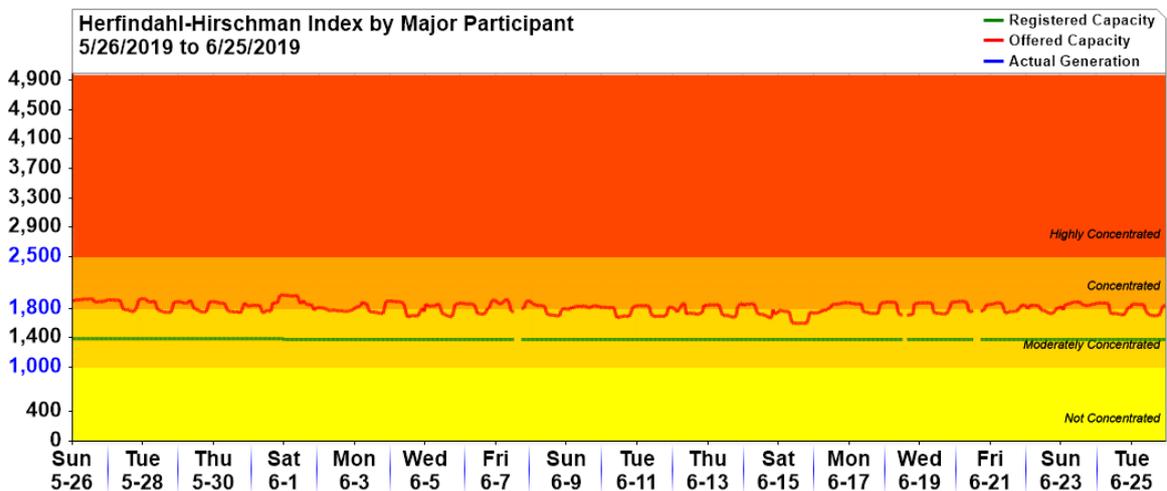


Figure 8. Hourly HHI based on Major Participant Grouping

List of Major Plant Outages

Region	Plant Type	Plant / Unit Name	Capacity (MW)	Date out	Date in	Duration	Outage Type	Remarks
LUZON	GEO	Tiwi 3	43.7	10/23/2005 13:26			Deactivated Shutdown	Tiwi 3 decommissioned since May 26 2009
LUZON	GEO	Makban 6	55	04/11/2013 22:44			Deactivated Shutdown	Conducted gas compressor test
VISAYAS	GEO	PGPP2 Unit 4	20	06/27/2014 6:07			Forced Outage	Steam being utilized by Nasulo plant
LUZON	OIL	Malaya 2	350	05/19/2018 13:01			Deactivated Shutdown	Burnt air heater 2A. RECLASSIFIED FROM FORCE. OMC OUTAGE
VISAYAS	GEO	Upper Mahiao 2	32	09/03/2018 6:01			Forced Outage	Tripped
LUZON	OIL	SLPGC 4	25	11/22/2018 11:56			Maintenance Outage	On extended maintenance shutdown until 24 April 2019
LUZON	GEO	Tiwi 1	59	11/29/2018 13:31			Maintenance Outage	Maintenance Outage
LUZON	COAL	Calaca 1	300	12/30/2018 22:38			Planned Outage	APMT until 25 June 2019 (GOMP)
LUZON	GEO	Makban 5	55	02/08/2019 16:08			Forced Outage	Low Steam Supply. Divert Steam Supply to unit 3
LUZON	HYD	San Roque 2	145	03/11/2019 15:01			Planned Outage	Planned outage until September 11 2019
VISAYAS	BIOF	SCBE	8.3	03/29/2019 15:50			Forced Outage	Due to internal problem
VISAYAS	OIL	CENPRI 1	4.2	04/28/2019 0:01	05/31/2019 16:05	33.7	Forced Outage	Due to high winding temperature
VISAYAS	BIOF	JRC 1	40	04/28/2019 0:53			Forced Outage	Offline due to Boiler problem
VISAYAS	OIL	PB102 Unit 1	6	04/28/2019 18:16			Forced Outage	Internal fault
LUZON	OIL	Malaya 1	300	05/03/2019 18:21			Forced Outage	Declared unavailable due to motorization of unit generator caused by the non-opening of phase B of PCB 8-05CB08MAL
LUZON	BIOF	iPower 2	12	05/18/2019 12:00			Forced Outage	Emergency plant shutdown due to leak at cooling tower
LUZON	HYD	Magat 2	97	05/20/2019 6:01			Maintenance Outage	Maintenance outage until 18 July 2019
LUZON	HYD	Magat 2	95	05/20/2019 6:01			Maintenance Outage	Maintenance outage until 18 July 2019
VISAYAS	GEO	Mahanagdong A1	5	05/21/2019 7:08			Forced Outage	Emergency shutdown
LUZON	OIL	SLPGC 3	25	05/21/2019 14:00	05/27/2019 23:58	6.4	Forced Outage	Burnt Medium Voltage Circuit Breaker
VISAYAS	GEO	Mahanagdong B1	5	05/22/2019 12:45			Forced Outage	AVR 24VDC power failure
LUZON	HYD	Binga 2	35	05/23/2019 8:01	05/27/2019 4:53	3.9	Planned Outage	Unit 2 APM
LUZON	COAL	SLTEC 1	121	05/24/2019 5:19	06/04/2019 7:39	11.1	Forced Outage	Boiler Tube Leak
VISAYAS	GEO	Malitbog 3	72	05/25/2019 0:36			Planned Outage	Annual PMS
VISAYAS	GEO	PGPP1 Unit 1	37.5	05/25/2019 4:12			Maintenance Outage	Offline to conduct repair of cooling tower leak at cooling tower hot distribution basin
LUZON	COAL	SLTEC 2	122.9	05/25/2019 8:22			Forced Outage	On emergency shutdown due to boiler tube leak
LUZON	OIL	Limay 5	60	05/25/2019 23:51	05/26/2019 13:45	0.6	Forced Outage	Blow off valve trouble
LUZON	NATG	Avion 1	50.3	05/26/2019 8:00	05/26/2019 20:00	0.5	Maintenance Outage	Maintenance activities until 2000H
LUZON	NATG	Avion 2	50.3	05/26/2019 8:00	05/26/2019 20:00	0.5	Maintenance Outage	Maintenance activities until 2000H
LUZON	COAL	SBPL	455	05/27/2019 15:28	06/14/2019 15:55	18.0	Forced Outage	Tripped at 95MW load. On Commissioning Test
LUZON	OIL	Limay 3	60	05/27/2019 23:32	05/28/2019 11:30	0.5	Forced Outage	Tripped by generator protection
VISAYAS	OIL	Bohol 4	4	05/28/2019 15:21	05/29/2019 8:10	0.7	Forced Outage	Emergency cut out due to excessive fresh cooling water leak at cylinder A bank
LUZON	OIL	Limay 3	60	05/29/2019 6:54	05/29/2019 13:40	0.3	Forced Outage	Starting failure
LUZON	GEO	Makban 2	63	05/29/2019 19:22	06/02/2019 14:32	3.8	Maintenance Outage	Maintenance Outage
LUZON	HYD	Binga 1	35	05/29/2019 20:01	06/02/2019 15:30	3.8	Planned Outage	Maintenance Outage Until 02 June 2019
VISAYAS	OIL	Bohol 4	4	05/30/2019 10:48	05/30/2019 11:12	0.0	Forced Outage	Water leak at injection cooling system
LUZON	GEO	Tiwi 5	57	05/30/2019 19:18	06/09/2019 8:24	9.5	Forced Outage	Tripped at 42MW load
LUZON	GEO	Tiwi 6	57	05/30/2019 19:45	05/31/2019 6:08	0.4	Forced Outage	Tripped at 26MW load
LUZON	NATG	Ilijan A1	190	05/30/2019 23:58	06/01/2019 10:25	1.4	Maintenance Outage	Maintenance outage until 02 June 2019.
VISAYAS	OIL	Bohol 4	4	05/31/2019 14:10	06/01/2019 9:11	0.8	Forced Outage	Shutdown. Exhaust gas leak at B-bank and high EGT at A and B bank
LUZON	COAL	QPPL	459	05/31/2019 14:45	06/01/2019 15:27	1.0	Forced Outage	Hydraulic leak at Control Valve 2
VISAYAS	COAL	TPC Sangi 2	85	06/01/2019 0:50	06/20/2019 11:25	19.4	Planned Outage	APMS
LUZON	COAL	Sual 2	647	06/01/2019 19:18	06/02/2019 23:00	1.2	Forced Outage	Tripped by generator transformer BUCCHOLZ relay actuation
LUZON	GEO	Makban 1	63	06/01/2019 20:15	06/10/2019 21:15	9.0	Forced Outage	Tripped due to power supply problem
LUZON	COAL	SMC 1	150	06/02/2019 4:50	06/12/2019 20:29	10.7	Forced Outage	Emergency shutdown due to boiler tube leak
LUZON	NATG	San Lorenzo 2	261.8	06/02/2019 6:34	06/02/2019 11:39	0.2	Forced Outage	Loss redundancy of critical automation processor of the unit
LUZON	COAL	GN Power 1	316	06/02/2019 11:07	06/09/2019 1:47	6.6	Forced Outage	Air Heater Trouble... System frequency is 59.024hz
VISAYAS	OIL	Bohol 3	4.2	06/02/2019 18:25	06/02/2019 22:07	0.2	Forced Outage	Jacket cooling water pressure low
VISAYAS	OIL	PB102 Unit 4	6	06/02/2019 18:44	06/04/2019 18:11	2.0	Forced Outage	Cooling Water Leak between Cylinder and cyl. head at Cyl. No. 1L
VISAYAS	OIL	PB101 Unit 1	6	06/02/2019 19:14	06/03/2019 18:07	1.0	Forced Outage	Shutdown due to gas cutting at Cylinder head 3L
LUZON	HYD	Binga 3	35	06/03/2019 16:46	06/03/2019 17:43	0.0	Forced Outage	Tripped due to line trouble
LUZON	HYD	Magat 3	95	06/03/2019 16:54	06/04/2019 0:32	0.3	Forced Outage	Excitation trouble.
LUZON	HYD	Magat 4	95	06/03/2019 16:54	06/03/2019 17:21	0.0	Forced Outage	Affected by tripping of unit 3
LUZON	HYD	Binga 4	35	06/03/2019 16:54	06/03/2019 17:44	0.0	Forced Outage	Tripped due to line trouble
VISAYAS	OIL	PB102 Unit 3	6	06/03/2019 18:57	06/04/2019 18:06	1.0	Forced Outage	Emergency shutdown due to presence of fire at right side Turbo-charger
VISAYAS	GEO	PGPP2 Unit 3	20	06/04/2019 0:06			Maintenance Outage	Offline due to PMS
VISAYAS	OIL	CENPRI 1	4.2	06/04/2019 9:01	06/04/2019 20:12	0.5	Forced Outage	Auto-tripped due to Loss of Field.
VISAYAS	OIL	CENPRI 5	6.4	06/04/2019 9:04	06/04/2019 20:10	0.5	Forced Outage	Auto-tripped due to Jacket Water Low Pressure
LUZON	NATG	San Gabriel	420	06/04/2019 18:04	06/06/2019 7:13	1.5	Forced Outage	On emergency shutdown due to differential pressure air filter trouble.
LUZON	COAL	SMC 4	150	06/05/2019 11:46			Forced Outage	High furnace pressure
LUZON	COAL	SMC 4	150	06/05/2019 11:46	06/20/2019 7:17	14.8	Forced Outage	High furnace pressure. On Commissioning Test
VISAYAS	OIL	Bohol 1	4	06/06/2019 10:04	06/06/2019 16:05	0.3	Forced Outage	High EGT at cylinder no. 3
VISAYAS	OIL	Bohol 2	4	06/06/2019 10:10	06/06/2019 16:06	0.2	Forced Outage	Fuel leak at cylinder no. 6
LUZON	COAL	Calaca 2	300	06/06/2019 15:06	06/08/2019 5:11	1.6	Forced Outage	Tripped with 203MW load
LUZON	GEO	Bacman 1	60	06/06/2019 17:03	06/06/2019 18:19	0.1	Forced Outage	Aux. supply undervoltage
LUZON	HYD	Magat 4	95	06/06/2019 19:56	06/06/2019 20:39	0.0	Forced Outage	Shaft seal high temperature
VISAYAS	COAL	CEDC 2	82	06/06/2019 21:03	06/07/2019 23:33	1.1	Forced Outage	Boiler Drain Valve Replacement
VISAYAS	OIL	PB102 Unit 2	6	06/07/2019 18:30	06/08/2019 13:11	0.8	Forced Outage	Internal Trouble
LUZON	HYD	San Roque 1	145	06/08/2019 0:01	06/14/2019 17:00	6.7	Planned Outage	Maintenance Outage until 17 June 2019
LUZON	HYD	San Roque 3	145	06/08/2019 0:01	06/14/2019 17:00	6.7	Planned Outage	Maintenance Outage until 17 June 2019
LUZON	NATG	San Lorenzo 1	264.8	06/08/2019 4:41	06/09/2019 21:27	1.7	Planned Outage	Maintenance Outage
VISAYAS	SOLR	San Carlos Sun	46.8	06/08/2019 6:28	06/08/2019 16:13	0.4	Forced Outage	Isolated due to Line maintenance of 69KV Escalante-San Carlos Line section
VISAYAS	SOLR	San Carlos 1	19.8	06/08/2019 6:28	06/08/2019 16:28	0.4	Forced Outage	Isolated due to Line maintenance of 69KV Escalante-San Carlos Line section
VISAYAS	SOLR	San Carlos 2	19.8	06/08/2019 6:28	06/08/2019 16:30	0.4	Forced Outage	Isolated due to Line maintenance of 69KV Escalante-San Carlos Line section
LUZON	NATG	San Lorenzo 2	261.8	06/08/2019 9:20	06/10/2019 5:32	1.8	Forced Outage	Tripped while on the process of change over of fuel from natural gas to fuel oil.
VISAYAS	SOLR	Isasol 2	27.2	06/09/2019 7:18	06/09/2019 19:51	0.5	Forced Outage	Isolated due to maintenance along 69KV Bacodol-San Enrique Sub TL
VISAYAS	OIL	Bohol 1	4	06/09/2019 19:17	06/09/2019 23:06	0.2	Forced Outage	Fuel leak at cylinder 5.
VISAYAS	OIL	Bohol 1	4	06/10/2019 18:10	06/10/2019 20:23	0.1	Forced Outage	Affected tripping of BDPP 10 MVA Transformer
VISAYAS	OIL	Bohol 2	4	06/10/2019 18:10	06/10/2019 20:24	0.1	Forced Outage	Affected tripping of BDPP 10 MVA Transformer
LUZON	OIL	Limay 1	60	06/11/2019 8:00	06/12/2019 21:41	1.6	Forced Outage	Flame-off problem (start-up).
VISAYAS	OIL	CENPRI 1	4.2	06/11/2019 10:52	06/11/2019 11:28	0.0	Forced Outage	Offline due to governor malfunction
VISAYAS	GEO	Malitbog 2	72	06/11/2019 15:52	06/11/2019 16:41	0.0	Forced Outage	Scrubber High Level Indication
VISAYAS	OIL	Bohol 3	4.2	06/11/2019 17:26	06/12/2019 8:20	0.6	Forced Outage	Turbo Charger problem
LUZON	COAL	SLTEC 1	121	06/12/2019 3:42	06/12/2019 17:30	0.6	Forced Outage	Primary Air fan A and B high vibration
LUZON	OIL	MGTTP	100	06/12/2019 9:59	06/15/2019 7:05	2.9	Forced Outage	Jack-in pump trouble
LUZON	GEO	Tiwi 5	57	06/12/2019 14:29	06/12/2019 15:30	0.0	Forced Outage	Tripped due to low vacuum
LUZON	COAL	SMC 1	150	06/13/2019 9:46	06/23/2019 3:55	9.8	Forced Outage	Suspected Boiler tube leak
LUZON	OIL	Limay 2	60	06/13/2019 20:28	06/14/2019 13:02	0.7	Forced Outage	Starting failure
LUZON	COAL	SBPL	455	06/14/2019 18:09	06/16/2019 9:53	1.7	Forced Outage	Hotspot correction of transformer. On Commissioning Test
LUZON	COAL	GN Power 2	316	06/14/2019 20:02			Forced Outage	Loss of power supply of coal feeder
LUZON	COAL	Sual 2	647	06/14/2019 21:39	06/16/2019 3:59	1.3	Maintenance Outage	Maintenance Outage until 17 June 2019
LUZON	COAL	Masinloc 3	335	06/15/2019 1:35			Planned Outage	On Commissioning Test
LUZON	NATG	San Lorenzo 2	261.8	06/16/2019 0:18	06/16/2019 23:42	1.0	Planned Outage	GT off-line compressor washing

Region	Plant Type	Plant / Unit Name	Capacity (MW)	Date out	Date in	Duration	Outage Type	Remarks
VISAYAS	SOLR	Montesol 1	14.4	06/16/2019 7:12	06/16/2019 17:28	0.4	Forced Outage	Isolated due to PMS along 69kV Amlan-Guihulngan Sub TL
VISAYAS	GEO	Upper Mahiao 1	32	06/16/2019 12:09			Forced Outage	Gen Ground Fault Relay activated
LUZON	COAL	SLTEC 1	121	06/16/2019 12:29	06/22/2019 19:17	6.3	Forced Outage	Boiler Tube Leak
LUZON	OIL	Limay 5	60	06/17/2019 6:54	06/17/2019 17:29	0.4	Forced Outage	Starting failure.
LUZON	OIL	Limay 8	90	06/17/2019 8:08	06/18/2019 5:12	0.9	Forced Outage	Excessive leak at the Main Cooling System pipeline
LUZON	COAL	SBPL	455	06/17/2019 8:45	06/21/2019 9:38	4.0	Forced Outage	Hot spot at the Unit Transformer high side bushing
LUZON	HYD	Ambuklao 2	35	06/18/2019 4:01	06/18/2019 20:23	0.7	Maintenance Outage	Maintenance Outage
LUZON	GEO	Tiwis 5	57	06/18/2019 15:19	06/18/2019 16:05	0.0	Forced Outage	Low condenser vacuum
VISAYAS	OIL	CENPRI 4	6.4	06/18/2019 15:27	06/18/2019 16:03	0.0	Forced Outage	Offline due to fuel leak
LUZON	NATG	San Gabriel	420	06/18/2019 21:39	06/19/2019 7:42	0.4	Forced Outage	Malampaya Natural Gas Supply Restriction
VISAYAS	OIL	Bohol 4	4	06/19/2019 9:14	06/23/2019 9:23	4.0	Forced Outage	Abnormal sound of turbocharger at B-bank
VISAYAS	OIL	PDP3 G	13	06/19/2019 9:34	06/19/2019 12:08	0.1	Forced Outage	Tripping of lube oil pump
LUZON	NATG	San Lorenzo 2	261.8	06/19/2019 9:57	06/19/2019 10:45	0.0	Forced Outage	Fuel supply change-over from gas to oil
VISAYAS	OIL	Bohol 2	4	06/19/2019 12:39	06/19/2019 18:05	0.2	Forced Outage	Excessive fuel oil leak on cylinder 1.
VISAYAS	OIL	Bohol 2	4	06/19/2019 19:18	06/19/2019 23:18	0.2	Forced Outage	Emergency out due to fuel leak at A bank supply line
LUZON	OIL	Limay 3	60	06/20/2019 6:37	06/20/2019 7:47	0.0	Forced Outage	Flame-off trip
VISAYAS	OIL	PDP3 G	13	06/20/2019 9:59	06/20/2019 10:47	0.0	Forced Outage	low lube oil pressure
VISAYAS	SOLR	San Carlos 1	19.8	06/21/2019 7:05	06/21/2019 8:15	0.0	Forced Outage	Auto-tripping of 13.2kV Main PCB due to internal plant problem
LUZON	COAL	SBPL	455	06/21/2019 16:51	06/21/2019 23:10	0.3	Forced Outage	Loss of flame and DCS trouble
LUZON	COAL	SBPL	455	06/22/2019 0:47	06/22/2019 23:30	0.9	Forced Outage	Tripped at 176MW load. System frequency is 59.47hz. Induced Draft fan vibration
LUZON	NATG	Sta. Rita 1	257.3	06/22/2019 4:27	06/23/2019 21:25	1.7	Maintenance Outage	Off Line Compressor Washing until 23 June 2019
VISAYAS	COAL	PALM 1	135	06/22/2019 8:31	06/22/2019 11:25	0.1	Forced Outage	Cause under investigation
VISAYAS	OIL	PDP3 E	12	06/22/2019 10:45	06/22/2019 13:10	0.1	Forced Outage	Emergency Stop due to Engine Governor Malfunction
LUZON	GEO	Bacman 1	60	06/22/2019 11:06	06/23/2019 19:34	1.4	Forced Outage	Tripped by generator tranf. buchholz relay indication
LUZON	OIL	Limay 3	60	06/23/2019 0:33	06/23/2019 11:06	0.4	Forced Outage	Unit start-up trouble
LUZON	GEO	Bacman 2	60	06/23/2019 1:22	06/23/2019 10:50	0.4	Forced Outage	Station Service tie breaker trouble
LUZON	COAL	SLPGC 2	150	06/23/2019 3:17	06/23/2019 14:09	0.5	Forced Outage	Hotspot correction at Main Transformer bushing, phase B
VISAYAS	SOLR	Silay	20	06/23/2019 7:04	06/23/2019 12:45	0.2	Forced Outage	Isolated due to maintenance activities and load shifting of 69kV Talisay-Silay Line section to 69kV Silay-VMC Tie Line.
VISAYAS	GEO	PGPP2 Unit 1	20	06/24/2019 1:22	06/24/2019 3:45	0.1	Forced Outage	To conduct load rejection by opening CB525N to test the logic for Household operation of unit 1 and 2.
VISAYAS	GEO	PGPP2 Unit 2	20	06/24/2019 1:22	06/24/2019 3:30	0.1	Forced Outage	To conduct load rejection by opening CB525N to test the logic for Household operation of unit 1 and 2.
VISAYAS	COAL	TPC Sangi 2	85	06/24/2019 9:06			Forced Outage	HIGH VIBRATION AT FA BLOWER
LUZON	COAL	SBPL	455	06/24/2019 15:45	06/25/2019 0:49	0.4	Forced Outage	Unit Transformer bushing hot spot correction. On Commissioning Test.