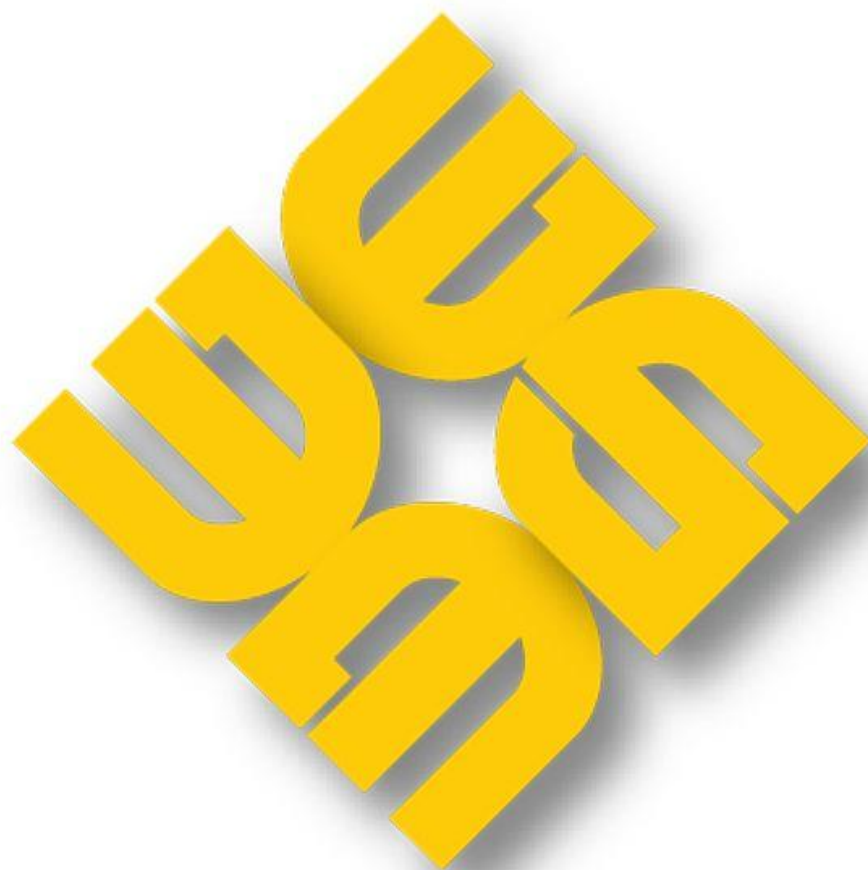


MAG-MMAR-2020-02

MONTHLY MARKET ASSESSMENT REPORT

For the Billing Period 26 January to 25 February 2020



**PHILIPPINE
ELECTRICITY
MARKET
CORPORATION**

**MARKET ASSESSMENT GROUP
(MAG)**

Monthly Market Assessment Report for February 2020 Billing Month

1. Assessment of the Market

- Majority of the market price outcomes in February 2020 was a result of normal pricing condition
- The remainder, however, required other forms of pricing methodologies
 - Almost close to half was applied price substitution which majority was due to frequent congestion events on Samboan-Amlan line 1
 - Prices with pricing error constituted around 2% of the time as a result of inappropriate input data affecting Luzon and Visayas' prices and schedules
- None of the intervals were imposed with administered prices and secondary price caps

Table 1. Summary of Pricing Conditions (Ex-ante), February 2020

| Pricing Condition | No. of Intervals | | | |
|----------------------|------------------|-------------|------------|-------------|
| | Luzon | % of Time | Visayas | % of Time |
| Normal | 429 | 58% | 423 | 57% |
| Congestion | 301 | 40% | 307 | 41% |
| Pricing Error Notice | 14 | 2% | 14 | 2% |
| Administered Price | 0 | 0% | 0 | 0% |
| Secondary Cap | 0 | 0% | 0 | 0% |
| Total | 744 | 100% | 744 | 100% |

- For those intervals under normal condition, a marginal growth in the price pattern has been observed
- Demand and supply situation have been observed to be tighter driven by slightly higher demand requirement this month causing increase in prices

2. Market Outcome

2.1. Price

2.1.1. Price and Supply Margin

- Load weighted average price (LWAP) increased by 14.2%
- Average peak prices increased by 19%
- Average off-peak prices increased by 5%
- No price spikes¹ recorded in February 2020 billing month
- Average supply margin narrowed by 7% from 2,754 MW to 2,560 MW
- Short episode of wide supply margin manifested starting January 31 through February 5 as outage capacity averaged at about 2,736 MW
- Corresponding LWAP during said episode was pegged at PhP2,307/MWh

Table 2. System Load Weighted Average Price

| Region | February 2020 (In PhP/MWh) | | | January 2020 (In PhP/MWh) | | |
|---------|-------------------------------|-------|---------|------------------------------|------|---------|
| | Max | Min | Average | Max | Min | Average |
| Luz-Vis | 11,941 | 1,336 | 3,280 | 13,686 | -0.2 | 2,871 |

Table 3. Supply Margin

| Region | February 2020 (in MW) | | | January 2020 (in MW) | | |
|---------|--------------------------|-----|---------|-------------------------|-----|---------|
| | Max | Min | Average | Max | Min | Average |
| Luz-Vis | 4,325 | 759 | 2,560 | 4,862 | 740 | 2,754 |

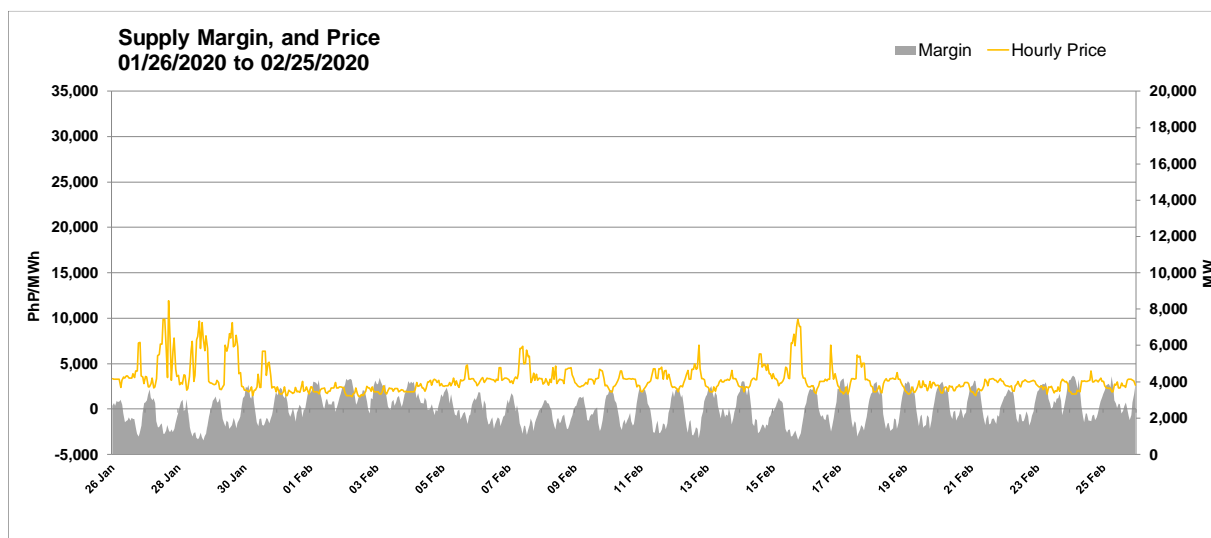


Figure 1. Supply Margin and Price, February 2020

¹ Market price triggers on price spikes are regularly monitored with thresholds based on the following:

- Cool Dry (26 Nov to 25 Feb) – Peak: PhP21,000/MWh; Off-peak: PhP8,500/MWh
- Hot Dry (26 Feb to 25 May) – Peak: PhP25,000/MWh; Off-peak: PhP16,500/MWh
- Rainy (26 May to 25 Nov) – Peak: PhP20,000/MWh; Off-peak: PhP12,000/MWh

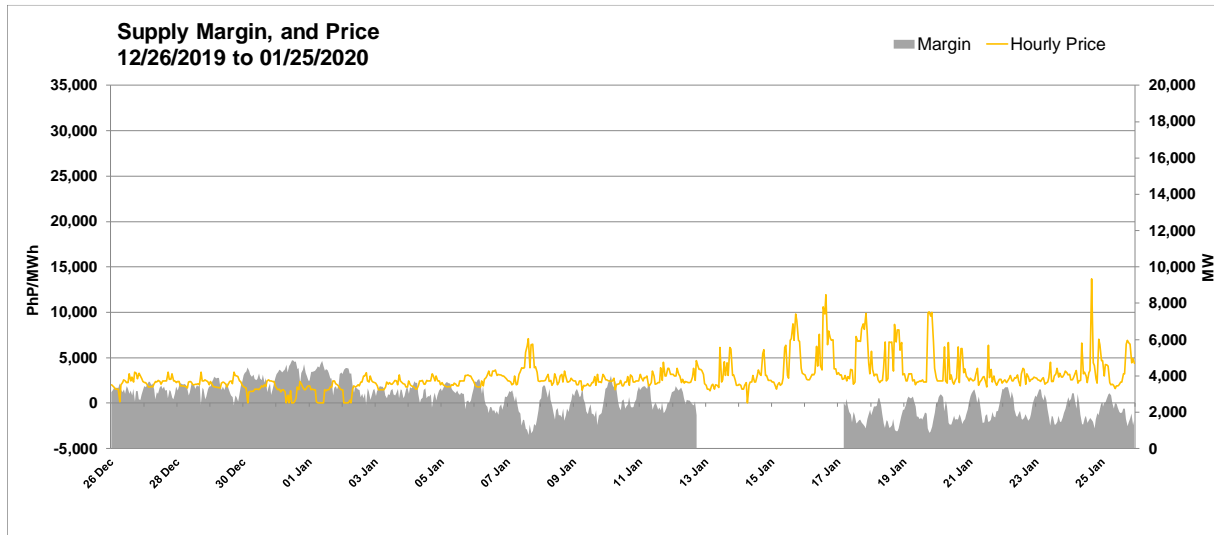


Figure 2. Supply Margin and Price, January 2020

2.1.2. Price Duration Curve²

- Bulk of the peak and off-peak load prices are concentrated on the lower price range of PhP0/MWh to PhP5,000/MWh during the February and January billing month
- 128 generator off-peak trading intervals and 57 generator peak trading intervals were settled above PhP17,000/MWh and were all found to be in the zone of Bohol
- Maximum off-peak and peak load nodal price reached PhP17,795/MWh and PhP21,618/MWh in February, respectively

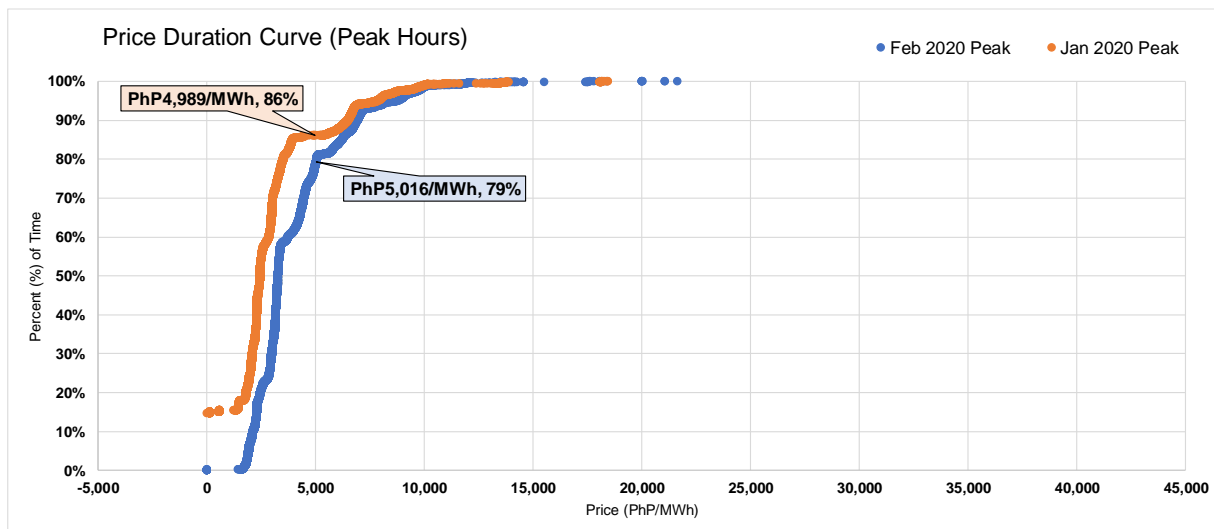


Figure 3. Load Nodal Price Duration Curve (Peak), Feb 2020 and Jan 2020

² Nodal prices without pricing errors and pricing substitution were considered to reflect near-to-real prices distribution in the market.

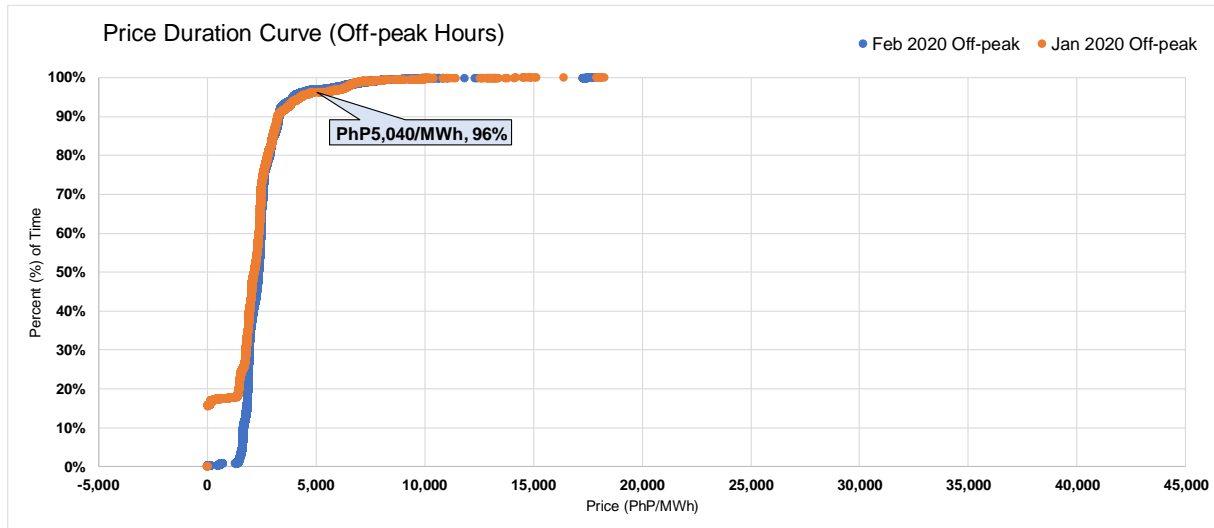


Figure 4. Load Nodal Price Duration Curve (Off-peak), Feb 2020 and Jan 2020

2.2. Supply

- No additional capacity registered in the WESM
- Available capacity³ constituted an average of 14,479 MW out of the total capacity of 20,182 MW or 71.7 percent
- Capacity not offered comprised an average of 2,575 MW or 12.8 percent
- Outage capacity accounted for an average of 3,128 MW or 15.5 percent which was also seen to decrease towards the end of the month

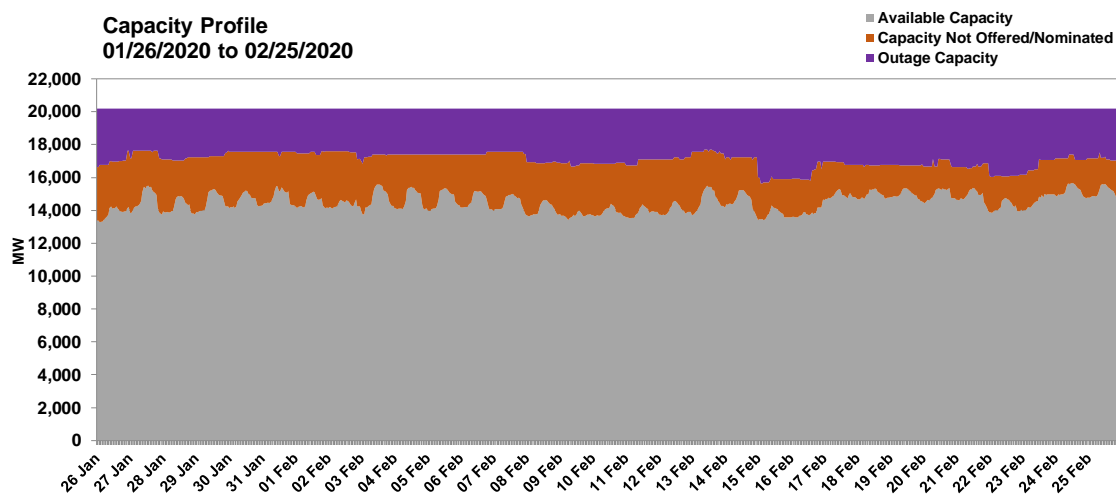


Figure 5. Capacity Profile, February 2020

³ Available capacity refers to the aggregate of Capacity Offered/Nominated, Malaya Capacity for MRU, and Capacity of Plants on Testing and Commissioning

2.2.1. Outage Capacity

- Outage capacity slightly increased to an average of 3,128 MW this month from an average of 2,822 MW last month
- Planned outage had the largest share which comprised 46 percent of the total outages, 43 percent is composed of forced outage, and maintenance outage constituted 9 percent of the total outages. Meanwhile, deactivated shutdown accounted for only about 2 percent of the outages.
 - Notable plants on planned outage: Calaca CFTPP unit 2 (300 MW), SLTEC CFTPP unit 1 (121 MW), SMC CFTPP unit 4 (150 MW), SLPGC CFTPP unit 1 and 2 (300 MW), QPPL CFTPP (460 MW), GN Power CFTPP unit 2 (316 MW), San Roque HEP unit 3 (145 MW), and Masinloc CFTPP unit 3 (335 MW)
 - Notable plants on forced outage: PEDC CFTPP unit 3 (150 MW), SBPL CFTPP (455 MW), CENPRI DPP unit 3 (4.2 MW), Makban GPP unit 1 (63 MW), SLPGC CFTPP unit 2 (150 MW), SLTEC CFTPP unit 2 (123 MW), Masinloc CFTPP unit 2 (344 MW), GN Power CFTPP unit 1 (316 MW), Kalayaan HEP unit 3 (180 MW), Anda CFTPP (72 MW)
 - Notable plants on maintenance outage: CEDC CFTPP unit 2 (82 MW), SMC CFTPP unit 1 (150 MW), Caliraya HEP (28 MW), Sta Rita NGPP unit 1 (257 MW), Sual CFTPP unit 2 (647 MW)
 - Notable plant on deactivated shutdown: Makan GPP unit 6 (55 MW)
- Planned and forced outages were on an uptrend coming into February, although contributing a minimal change in effective supply throughout the period in review
- A sudden increase in outage on 14 to 15 February consisted of the following outages:
 - Forced outage of Kalayaan HEP units 1, 2, and 3 (540 MW), and Masinloc CFTPP unit 3 (335 MW) due to problems encountered in the generator while Kalayaan HEP unit 4 (180 MW) was isolated owing to the tripping of San Juan – Lumban 230 kV lines 1 and 2
 - Maintenance outage of Sual CFTPP unit 1 (647 MW), and Sta Rita NGPP unit 1 (257 MW)
- On 22 February, the increase in level of outage was mainly attributed to maintenance outage of Sual CFTPP unit 2 (647 MW) and planned outage of SLTEC CFTPP unit 1 (121 MW)
- Level of total outages was on a downtrend towards the end of the billing period, opening the month with 3,460 MW and closing with 2,721 MW

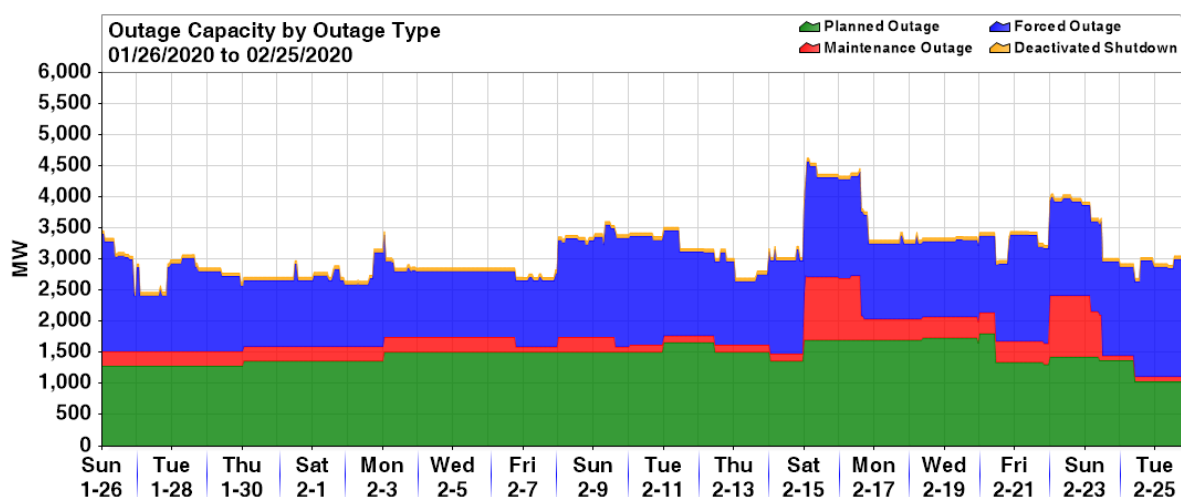


Figure 6. Outage Capacity by Outage Category, February 2020

Table 4. Outage Summary by Outage Category, Feb 2020 and Jan 2020

| Outage Category | February 2020 | | | January 2020 | | |
|----------------------|---------------|-------|---------|--------------|-----|---------|
| | Max | Min | Average | Max | Min | Average |
| Planned | 1,806 | 1,037 | 1,463 | 2,030 | 663 | 1,267 |
| Maintenance | 1,037 | 82 | 286 | 1,187 | 174 | 407 |
| Forced | 1,887 | 899 | 1,345 | 2,419 | 563 | 1,041 |
| Deactivated Shutdown | 55 | 55 | 55 | 55 | 55 | 55 |

- In terms of type of power plants, coal generators accounted for the highest percentage of outage at 69 percent with a corresponding 27 percent increase from last month's outage, followed by oil-based generators at 12 percent, geothermal and hydro generators came after at 9 percent and 8 percent, respectively, with hydro plants recording a significant increase in average from 3 MW to 240 MW, while natural gas plants posted only 2 percent in total outage
 - Notable coal plants on outage: SLPGC CFTPP unit 1 (150 MW), CEDC CFTPP units 2 and 3 (164 MW), PEDC CFTPP unit 3 (150 MW), SMC CFTPP units 1 and 4 (300 MW), GN Power CFTPP units 1 and 2 (632 MW), QPPL CFTPP (460 MW), SBPL CFTPP (455 MW), Masinloc CFTPP units 2 and 3 (679 MW), Anda CFTPP (72 MW), TPC Sangi CFTPP unit 2 (85 MW)
 - Notable natural gas plant on outage: Sta Rita NGPP unit 1 (257 MW)
 - Notable geothermal plants on outage: Leyte NGPP – Mahanagdong A2, B1 and Upper Mahiao 1, 2, and 4 (106 MW), and Makban GPP units 1, 5, and 6 (173 MW), Tiwi GPP unit 1 (59 MW)
 - Notable oil-based plants on outage: Limay CCGT unit 1 (60 MW), CENPRI DPP unit 3 (4.2 MW), SLPGC GTPP unit 4 (25 MW), and Malaya TPP unit 1 (300 MW)
- Natural gas plants outage, even with second highest share in terms of registered capacity, posted a low level of outage from an average of 346 MW last month to 75 MW this month

- Average outage of oil-based plants at about 379 MW this month majorly consisted of the prolonged outage of Malaya TPP unit 1 at 300 MW due to problems in the unit generator since 03 May 2019
- Geothermal plants recorded a minimal decline in outage of about 2 percent coming into February

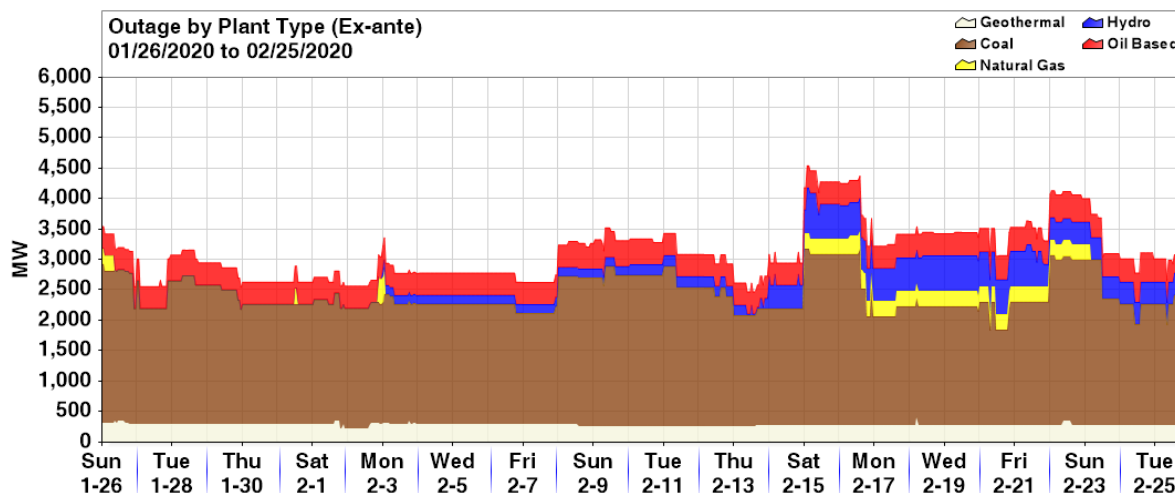


Figure 7. Outage Capacity by Plant Type, February 2020

Table 5. Outage Summary by Plant Type, Feb 2020 and Jan 2020

| Plant Type | February 2020 | | | January 2020 | | |
|-------------|---------------|-------|---------|--------------|-------|---------|
| | Max | Min | Average | Max | Min | Average |
| Coal | 2,887 | 1,552 | 2,145 | 3,136 | 1,005 | 1,686 |
| Natural Gas | 420 | 0 | 75 | 686 | 0 | 346 |
| Geothermal | 416 | 231 | 289 | 570 | 231 | 296 |
| Hydro | 748 | 0 | 240 | 183 | 0 | 3 |
| Oil-based | 485 | 300 | 379 | 862 | 330 | 492 |

2.3. Demand

- On a monthly comparison, both peak and off-peak demand increased by 3.1 percent and 0.3 percent on average, respectively, due to higher demand requirement and observance of less holidays in February as compared to January
- It was a similar year-on-year trend where both peak and off-peak demand went up by 6.5 percent and 6.1 percent on average, respectively, as a result of higher economic activities from consumers
- Maximum system demand in February reached 11,895 MW for peak hours and 10,540 MW for off-peak hours
- Minimum system demand in February reached 9,154 MW for peak hours and 7,045 MW for off-peak hours
- A significant difference in average system demand between February and January was on the account of low demand during Christmas holiday

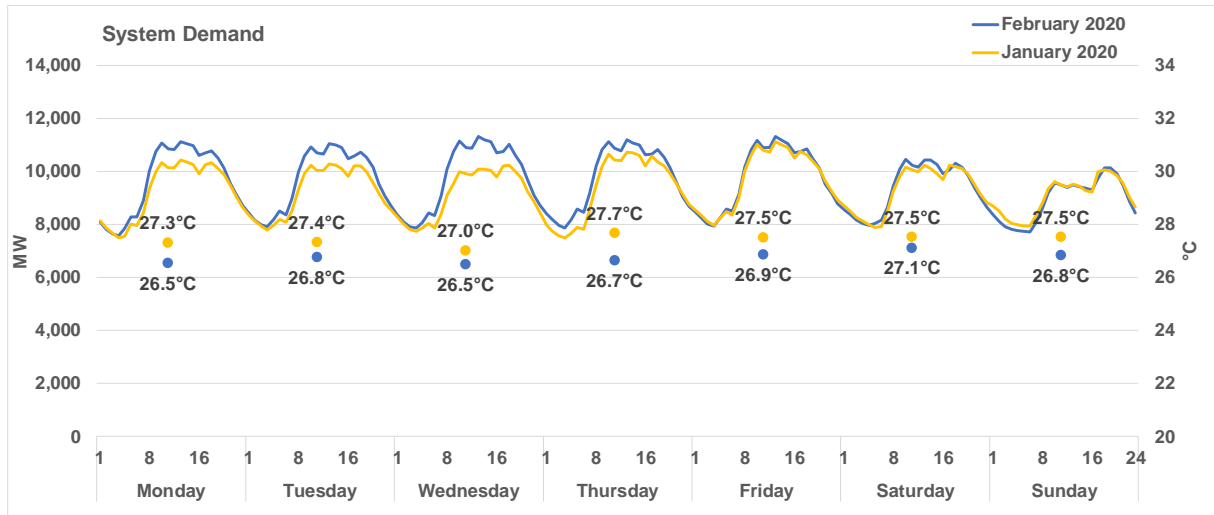


Figure 8. Average Hourly System Demand, Feb 2020 and Jan 2020

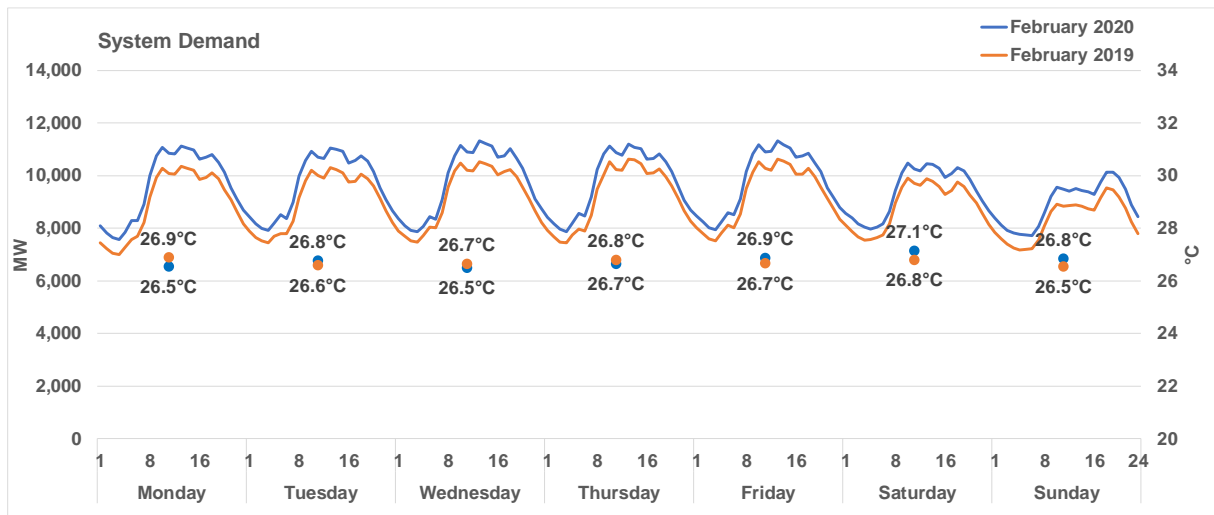


Figure 9. Average Hourly System Demand, Feb 2020 and Feb 2019

3. Spot Transactions

3.1. Spot Exposure

- Spot quantities in February stood at 14.3 percent of the total metered quantities, lower than last month's 18.1 percent spot exposure
- Spot exposure in off-peak hours averaged at 17 percent while 16 percent in peak hours
- Average spot exposure was almost consistent throughout the day as compared with January
- Based on the spot duration curve⁴, 90 percent of the time, spot quantities fell below 20 MWh

⁴ The spot duration curve utilizes data on a per generator trading interval, meaning, all the data consisted of spot quantities of every generator per interval for the period considered

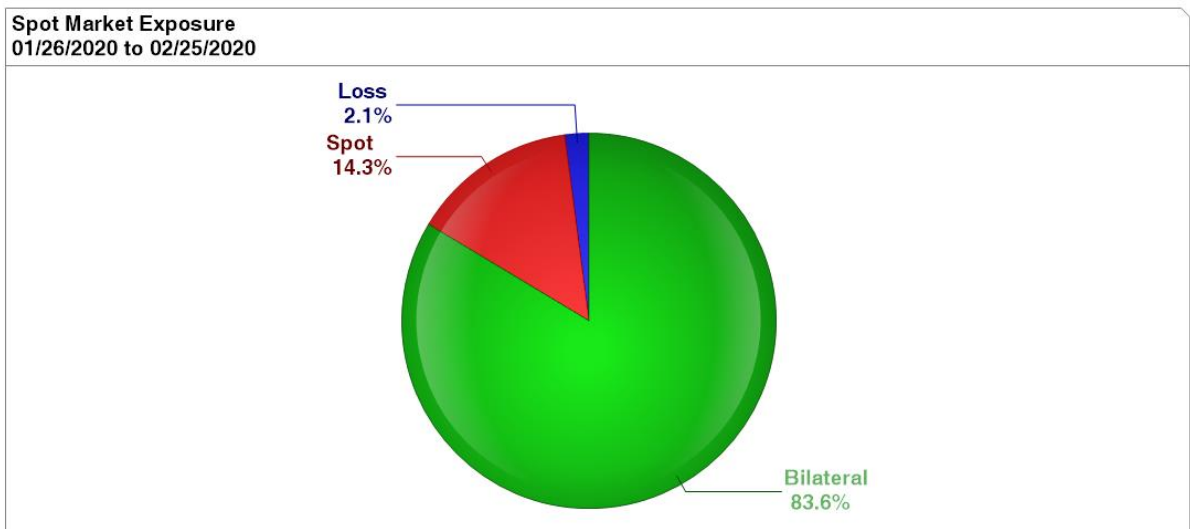


Figure 10. Spot Market Exposure

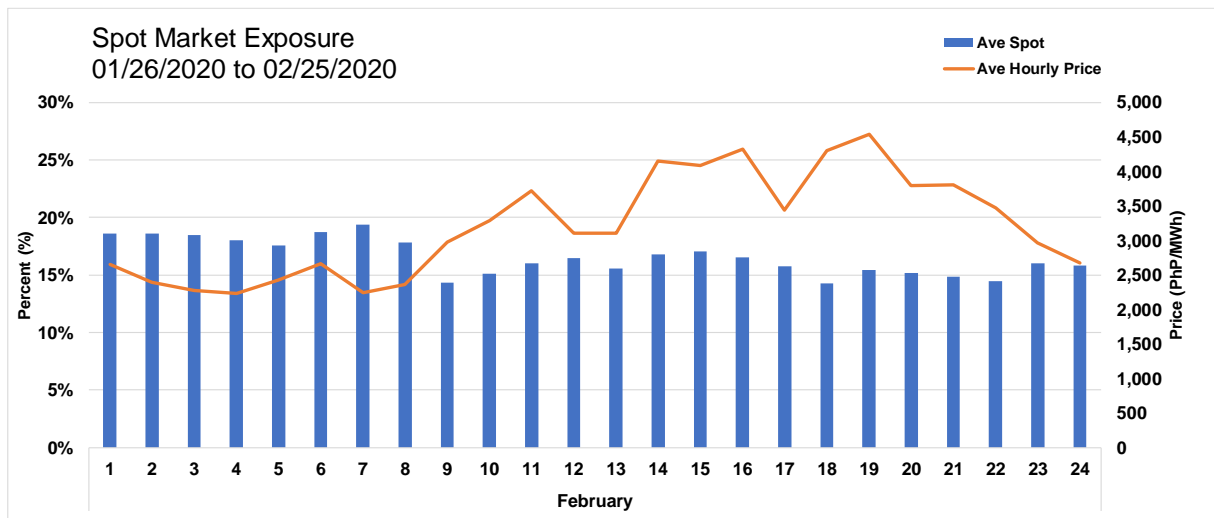


Figure 11. Hourly Spot Market Exposure

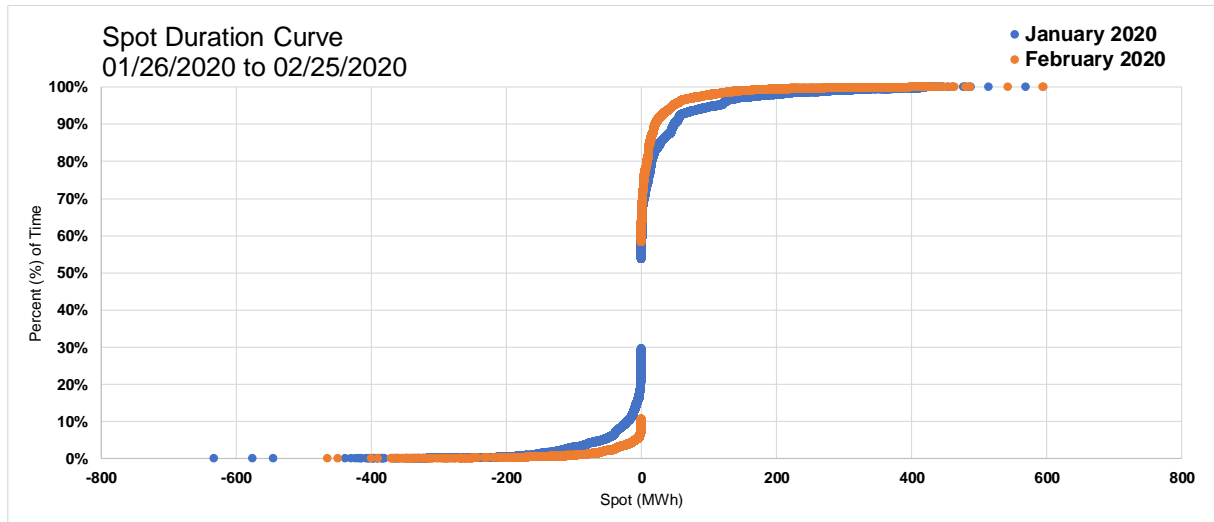


Figure 12. Spot Duration Curve

3.2. Pivotal⁵ Plants

- Only four (4) power plants were pivotal during February ensuring that enough supply was available to satisfy the demand requirement
- As compared to February, the January billing month has more pivotal plants despite wider supply margin mainly because the computation of Residual Supply Index⁶ (RSI) was only applied to Visayas instead of system-wide application during the intervals where Luzon experienced market intervention (i.e. Taal eruption).
- With the foregoing, Visayas region have experienced tighter supply-demand condition resulting to more frequent pivotal plants

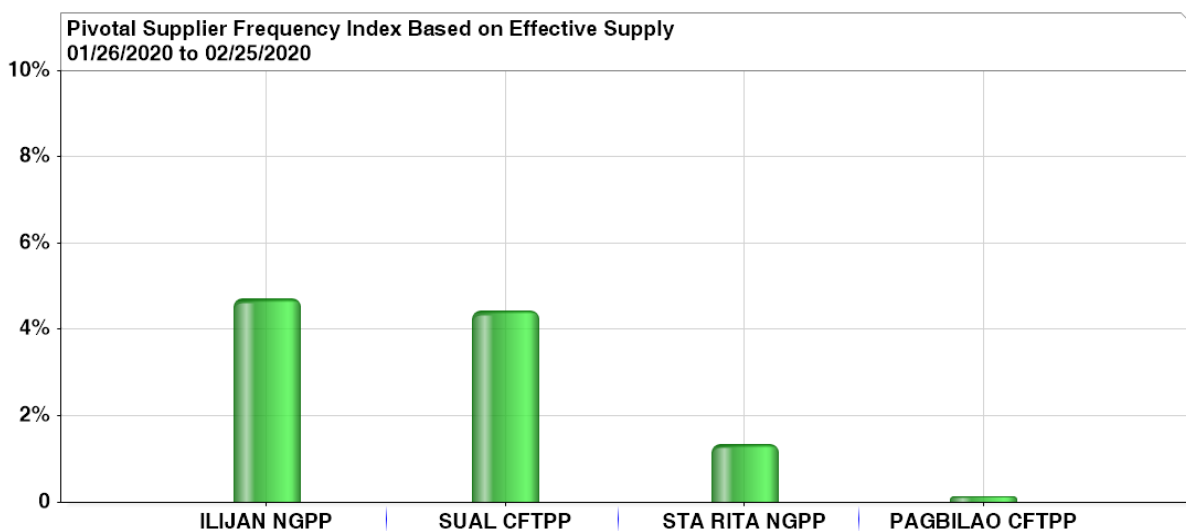


Figure 13. Top Pivotal Plants, February 2020

⁵ The Pivotal Supply Index (PSI) measures how critical a generator is in meeting the total demand at a time. It is a binary variable (1 for pivotal and 0 for not pivotal) which measures the frequency that a generating is pivotal for a period.

⁶ The Residual Supply Index (RSI) measures the ratio of the available generation without a generator to the total generation required (including operational reserve) to supply the demand. RSI also determines whether there are pivotal suppliers in an interval

Table 6. Pivotal Supplier Frequency Index, February 2020

| Top Pivotal Suppliers | | | | |
|-----------------------|----------------|-------------------------|-----------|-----------|
| Rank | Plant | Major Participant Group | Frequency | % of Time |
| 1 | ILIJAN NGPP | SMC | 35 | 4.7% |
| 2 | SUAL CFTPP | SMC | 33 | 4.4% |
| 3 | STA RITA NGPP | FGC | 10 | 1.3% |
| 4 | PAGBILAO CFTPP | AP | 1 | 0.1% |

3.3. Total Trading Amount⁷ (TTA) Share

- San Miguel Corporation (SMC), First Gen Corporation (FGC), and Power Sector Assets and Liabilities Management Corporation (PSALM) held the highest TTA share with approximately 20 percent, 19 percent, and 18 percent, respectively, or a cumulative 55 percent of the entire TTA during the billing month
- Likewise, they had the highest spot exposure share, with FGC having the highest at around 23 percent, followed by SMC at 20 percent and PSALM at 18 percent
- This month's list was joined by SPC Power Corporation (SPC) and Gregorio Araneta, Inc. (GAI), bumping off Vivant Energy Corporation (VEC) and Aboitiz Power Corporation (AP) off the list from last month

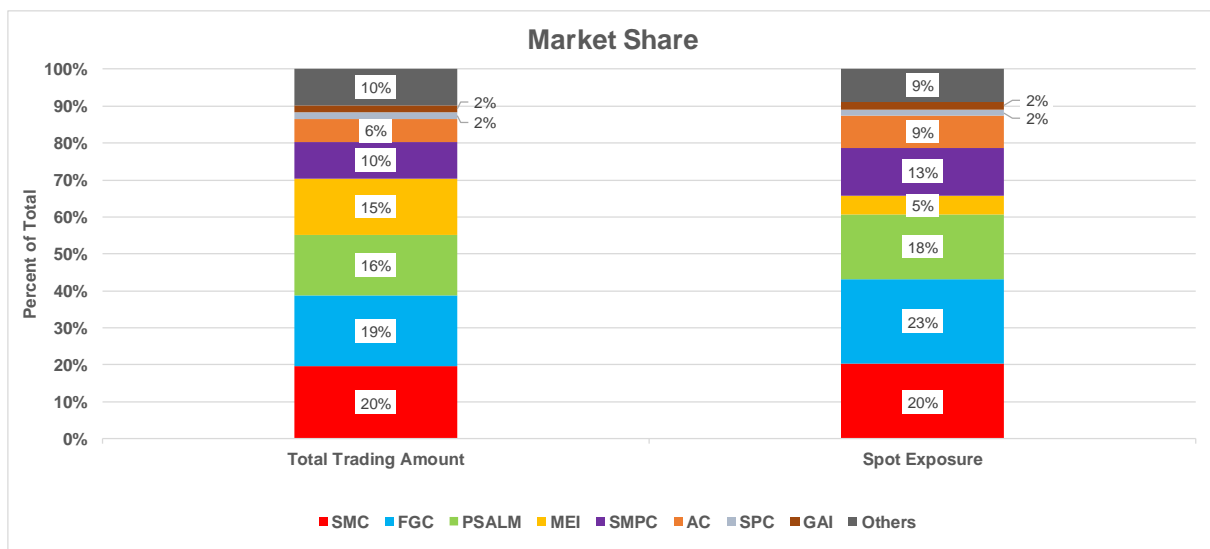


Figure 14. Total Trading Amount and Spot Exposure Share, February 2020

⁷ The Total Trading Amount (TTA) refers to the amount of revenue from spot market transactions excluding quantities that are declared by the generators as covered by bilateral power supply contracts, which are settled outside the WESM

Annex A. List of Major Plant Outages

| Region | Plant Type | Plant/ Unit Name | Capacity (MW) | Date Out | Date In | Duration (Days) | Outage Type | Remarks | Date Commissioned/ Commerical Operation |
|---------|------------|------------------|---------------|------------------|------------------|-----------------|----------------------|--|---|
| LUZON | GEO | Makban 6 | 55 | 04/11/2013 22:44 | | | Deactivated Shutdown | Conducted gas compressor test | Apr 1979 |
| VISAYAS | GEO | PGPP2 Unit 4 | 20 | 06/27/2014 6:07 | | | Forced Outage | Steam being utilized by Nasulo plant | Aug 1983 |
| LUZON | GEO | Makban 5 | 55 | 02/08/2019 16:08 | | | Forced Outage | Low Steam Supply. Divert Steam Supply to unit 3 | Apr 1979 |
| LUZON | OIL | Malaya 1 | 300 | 05/03/2019 18:21 | | | Forced Outage | Declared unavailable due to motorization of unit generator caused by the non-open | Aug 1975 |
| LUZON | COAL | Calaca 2 | 300 | 10/17/2019 23:49 | | | Planned Outage | Maintenance Outage until 02 March 2020 | Sep 1984 |
| LUZON | GEO | Tiwi 1 | 59 | 10/31/2019 23:54 | | | Forced Outage | Low steam supply. Divert steam supply to unit 2 | Jan 1979 |
| VISAYAS | GEO | Upper Mahiao 3 | 32 | 12/05/2019 0:07 | | | Forced Outage | Emergency shutdown requested by customer to facilitate rotor transfer to Unit 2 | Jul 1997 |
| LUZON | COAL | SLPGC 1 | 150 | 12/13/2019 0:04 | 02/12/2020 10:14 | 61.42 | Planned Outage | Maintenance Outage | Jan 2015 |
| VISAYAS | COAL | TPC Sangi 1 | 60 | 12/17/2019 6:05 | | | Forced Outage | Generator differential trip | Dec 2013 |
| VISAYAS | COAL | CEDC 2 | 82 | 12/21/2019 8:53 | | | Maintenance Outage | SAF motor replacement | Jun 2010 |
| VISAYAS | GEO | Mahanagdong A2 | 5 | 12/25/2019 10:31 | 02/04/2020 0:15 | 40.57 | Forced Outage | Under assessment | Jul 1997 |
| VISAYAS | COAL | PEDC 3 | 150 | 12/31/2019 19:35 | 01/29/2020 22:58 | 29.14 | Forced Outage | Coal feeder A and B problem. Scheduled for APMS at 2001H | Aug 2016 |
| LUZON | COAL | SMC 1 | 150 | 01/03/2020 4:27 | 02/06/2020 18:40 | 34.59 | Maintenance Outage | Maintenance Outage until 22 January 2020. | Nov 2016 |
| LUZON | OIL | Limay 1 | 60 | 01/06/2020 0:01 | 02/23/2020 9:32 | 48.40 | Planned Outage | Maintenance Outage until 20 February 2020 | May 1993 |
| VISAYAS | GEO | Mahanagdong B1 | 5 | 01/06/2020 21:02 | 02/04/2020 0:21 | 28.14 | Forced Outage | AVR power fail indication. | Jul 1997 |
| LUZON | COAL | GN Power 2 | 316 | 01/07/2020 0:12 | | | Planned Outage | Planned Outage until 23 February 2020 | May 2013 |
| LUZON | COAL | QPPL | 460 | 01/17/2020 23:58 | 02/20/2020 10:55 | 33.46 | Planned Outage | Planned outage as per GOP | May 2000 |
| LUZON | GEO | Makban 1 | 63 | 01/18/2020 23:08 | 02/01/2020 14:42 | 13.65 | Forced Outage | Low Steam Supply. | Apr 1979 |
| VISAYAS | GEO | Upper Mahiao 1 | 32 | 01/24/2020 8:45 | 01/26/2020 9:32 | 2.03 | Forced Outage | Emergency shutdown. | Jul 1997 |
| LUZON | COAL | SLPGC 2 | 150 | 01/24/2020 15:29 | 01/28/2020 15:55 | 4.02 | Forced Outage | Isolated due to tripping of Calaca-Sta Rita 230kV L1 | Jan 2015 |
| LUZON | COAL | SLTEC 1 | 121 | 01/24/2020 15:29 | 01/26/2020 1:59 | 1.44 | Forced Outage | Isolated due to tripping of Calaca-Sta Rita 230kV L1 | Sep 2014 |
| LUZON | COAL | SLTEC 2 | 122.9 | 01/24/2020 15:29 | 01/26/2020 1:27 | 2.25 | Forced Outage | Isolated due to tripping of Calaca-Sta Rita 230kV L1 | Aug 2015 |
| LUZON | NATG | Sta. Rita 1 | 257.3 | 01/25/2020 1:43 | 01/26/2020 8:25 | 1.28 | Forced Outage | Initiated by First Gas in coordination with SO to maintain N-1 compliance for Batang | Jun 2000 |
| LUZON | COAL | SBPL | 455 | 01/25/2020 11:26 | 01/26/2020 21:42 | 1.43 | Forced Outage | Air heater problem | Apr 2019 |
| VISAYAS | GEO | Upper Mahiao 4 | 32 | 01/26/2020 8:55 | 01/26/2020 15:22 | 0.27 | Forced Outage | Emergency shutdown | Jul 1997 |
| VISAYAS | GEO | Upper Mahiao 1 | 32 | 01/26/2020 10:59 | 01/26/2020 18:35 | 0.32 | Forced Outage | Indication- Lube oil low pressure. | Jul 1997 |
| LUZON | COAL | SBPL | 455 | 01/26/2020 23:30 | 01/27/2020 1:55 | 0.10 | Forced Outage | Tripped with 80MW load. | Apr 2019 |
| VISAYAS | OIL | CENPRI 2 | 4.2 | 01/27/2020 15:17 | 01/28/2020 17:07 | 1.08 | Forced Outage | Emergency cut-out due to malfunctioned voltage regulator. | Mar 2016 |
| LUZON | OIL | MGTPP | 100 | 01/27/2020 15:42 | 01/27/2020 16:55 | 0.05 | Forced Outage | Unit Transformer fault | Jan 1993 |
| LUZON | COAL | SBPL | 455 | 01/27/2020 20:48 | 02/16/2020 19:39 | 19.95 | Forced Outage | Boiler de-slugging | Apr 2019 |
| LUZON | OIL | Limay 5 | 60 | 01/27/2020 22:18 | 01/28/2020 17:45 | 0.81 | Forced Outage | Main fuel oil pump trouble | Dec 1994 |
| VISAYAS | COAL | CEDC 1 | 82 | 01/28/2020 6:38 | 01/29/2020 9:38 | 1.13 | Forced Outage | DRUM LEVEL VERY HIGH | Apr 2010 |
| VISAYAS | OIL | CENPRI 3 | 4.2 | 01/28/2020 13:01 | 02/19/2020 12:01 | 21.96 | Forced Outage | Unable to cut-in due to PLC IO module problem | Mar 2016 |
| VISAYAS | OIL | CENPRI 1 | 4.2 | 01/28/2020 16:31 | 01/28/2020 17:06 | 0.02 | Forced Outage | Offline due to below Technical Pmin Market dispatch (1.0MW) | Mar 2016 |
| VISAYAS | OIL | CENPRI 4 | 6.4 | 01/28/2020 16:35 | 01/28/2020 17:05 | 0.02 | Forced Outage | Offline due to below Technical Pmin Market dispatch (1.5MW) | Mar 2016 |
| VISAYAS | COAL | CEDC 3 | 82 | 01/30/2020 0:52 | 02/19/2020 22:37 | 20.91 | Planned Outage | APMS | Jan 2011 |
| LUZON | NATG | Sta. Rita 3 | 265.5 | 01/31/2020 11:35 | 01/31/2020 13:08 | 0.06 | Forced Outage | Tripped at 265MW load | Oct 2001 |
| VISAYAS | COAL | CEDC 1 | 82 | 02/01/2020 0:55 | 02/01/2020 10:16 | 0.39 | Forced Outage | Correction of boiler feedpump motorized valve leak. | Apr 2010 |
| LUZON | GEO | Makban 3 | 63 | 02/01/2020 13:39 | 02/01/2020 18:02 | 0.18 | Forced Outage | Tripped from 40MW load due to loss of AC Voltage. | Apr 1979 |
| LUZON | GEO | Makban 4 | 63 | 02/01/2020 13:39 | 02/01/2020 21:21 | 0.32 | Forced Outage | Tripped from 43mw load due to reverse power. | Apr 1979 |
| LUZON | COAL | SLTEC 2 | 122.9 | 02/01/2020 14:31 | 02/01/2020 18:39 | 0.17 | Forced Outage | Due to tripping of Boiler Feed Pump. Lowest frequency is 59.568Hz. | Aug 2015 |
| VISAYAS | GEO | Upper Mahiao 4 | 32 | 02/02/2020 14:27 | | | Forced Outage | Emergency cut-out. | Jul 1997 |
| VISAYAS | GEO | Upper Mahiao 2 | 32 | 02/02/2020 14:31 | 02/03/2020 6:43 | 0.68 | Forced Outage | Emergency cut-out. | Jul 1997 |
| VISAYAS | GEO | Upper Mahiao 1 | 32 | 02/02/2020 14:32 | 02/08/2020 13:23 | 5.95 | Forced Outage | Emergency cut-out. | Jul 1997 |
| LUZON | NATG | San Gabriel | 420 | 02/02/2020 17:01 | 02/03/2020 1:01 | 0.33 | Forced Outage | Boiler protection actuated | Mar 2016 |
| LUZON | HYD | San Roque 3 | 145 | 02/03/2020 0:01 | 02/14/2020 0:01 | 11.00 | Planned Outage | Maintenance Outage until 15 February 2020 | May 2003 |
| VISAYAS | COAL | PALM 1 | 135 | 02/03/2020 0:44 | 02/03/2020 7:39 | 0.29 | Forced Outage | Affected by tripping of Negros-Panay submarine cable | Mar 2016 |
| VISAYAS | GEO | PGPP2 Unit 3 | 20 | 02/03/2020 19:28 | 02/03/2020 22:40 | 0.13 | Forced Outage | Ongoing investigation on cause of tripping | Aug 1983 |
| VISAYAS | GEO | Mahanagdong A1 | 5 | 02/04/2020 0:11 | | | Forced Outage | Annual PMS of 230kV bus bar. | Jul 1997 |
| VISAYAS | GEO | Mahanagdong A2 | 5 | 02/04/2020 0:15 | 02/12/2020 3:37 | 8.14 | Forced Outage | Annual PMS. | Jul 1997 |
| VISAYAS | GEO | Mahanagdong B1 | 5 | 02/04/2020 0:21 | 02/06/2020 23:54 | 2.98 | Forced Outage | Annual PMS of 230kV bus bar. | Jul 1997 |
| LUZON | HYD | Pantabangan 2 | 60 | 02/07/2020 10:53 | 02/07/2020 12:29 | 0.07 | Forced Outage | Tripped due to Main Inlet Valve Problem | Dec 2010 |
| LUZON | COAL | SLTEC 2 | 122.9 | 02/07/2020 21:01 | 02/09/2020 6:07 | 1.38 | Forced Outage | Boiler Tube Leak (Water Wall side) until 09 February 2020. | Aug 2015 |
| LUZON | COAL | Masinloc 2 | 344 | 02/07/2020 23:46 | 02/11/2020 10:58 | 3.47 | Forced Outage | Due to boiler tube leak. | Jun 1998 |
| LUZON | COAL | SMC 2 | 150 | 02/07/2020 23:46 | 02/09/2020 14:06 | 1.60 | Maintenance Outage | MO from 02.8-9-2020. | Mar 2017 |
| LUZON | OIL | Limay 3 | 60 | 02/08/2020 4:33 | 02/08/2020 18:12 | 0.57 | Forced Outage | Due to Turbine trouble.(RECLASSIFIED FROM FORCE. OMC OUTAGE) | May 1993 |
| LUZON | OIL | Limay 7 | 60 | 02/08/2020 20:13 | 02/09/2020 11:48 | 0.65 | Forced Outage | Unable to start due to excitation problem. | Dec 1994 |
| LUZON | OIL | Limay 5 | 60 | 02/09/2020 0:11 | 02/09/2020 5:26 | 0.22 | Forced Outage | Declared unavailable due to air intake coarse filters trouble. | Dec 1994 |
| LUZON | OIL | Limay 3 | 60 | 02/09/2020 5:26 | 02/10/2020 16:27 | 1.46 | Forced Outage | Tripped due to turbine trouble | May 1993 |
| LUZON | COAL | GN Power 1 | 316 | 02/09/2020 7:35 | 02/13/2020 0:43 | 3.71 | Forced Outage | Emergency shutdown due to turbine driven circulating valve repair. | May 2013 |
| LUZON | OIL | Limay 5 | 60 | 02/09/2020 14:49 | 02/09/2020 15:47 | 0.04 | Forced Outage | Failed start-up. | Dec 1994 |
| LUZON | HYD | Caliraya 1 | 14 | 02/10/2020 0:01 | 02/15/2020 23:16 | 5.97 | Maintenance Outage | Maintenance outage 15 February 2020 | Oct 2002 |
| LUZON | HYD | Caliraya 2 | 14 | 02/10/2020 0:01 | 02/15/2020 23:16 | 5.97 | Maintenance Outage | Maintenance outage 15 February 2020 | Oct 2002 |
| LUZON | COAL | SMC 4 | 150 | 02/10/2020 23:25 | | | Planned Outage | Maintenance outage until 02 March 2020 | Sep 2018 |
| LUZON | COAL | SLPGC 1 | 150 | 02/12/2020 14:14 | 02/12/2020 18:09 | 0.16 | Forced Outage | From MO (over speed testing). | Jan 2015 |
| VISAYAS | GEO | Upper Mahiao 2 | 32 | 02/13/2020 14:38 | 02/13/2020 20:29 | 0.24 | Forced Outage | Due to thrust bearing high temperature. | Jul 1997 |
| VISAYAS | COAL | CEDC 1 | 82 | 02/13/2020 15:03 | 02/15/2020 3:01 | 1.50 | Forced Outage | SUSPECTED BOILER TUBE LEAK | Apr 2010 |
| VISAYAS | GEO | Upper Mahiao 2 | 32 | 02/13/2020 20:29 | 02/14/2020 15:41 | 0.80 | Forced Outage | Cut-in to the system. | Jul 1997 |
| LUZON | HYD | Kalayaan 1 | 180 | 02/13/2020 23:01 | | | Forced Outage | Declared unavailable due to heavy water leak at penstock | Aug 1982 |
| LUZON | HYD | Kalayaan 2 | 180 | 02/13/2020 23:01 | | | Forced Outage | Declared unavailable due to heavy water leak at penstock | Aug 1982 |
| LUZON | HYD | Kalayaan 3 | 180 | 02/14/2020 3:17 | 02/14/2020 4:45 | 0.06 | Forced Outage | Tripped as pump. | May 2004 |
| VISAYAS | GEO | Upper Mahiao 2 | 32 | 02/14/2020 16:04 | | | Forced Outage | cut-in to the system | Jul 1997 |
| LUZON | HYD | Kalayaan 3 | 180 | 02/14/2020 18:50 | 02/14/2020 20:53 | 0.09 | Forced Outage | Turbine guide bearing trouble | May 2004 |
| LUZON | COAL | Masinloc 3 | 335 | 02/14/2020 23:36 | 02/24/2020 9:03 | 9.39 | Planned Outage | Tripped while on house load operation started at 2334H. | Mar 2019 |
| LUZON | COAL | Sual 1 | 647 | 02/14/2020 23:58 | 02/16/2020 14:20 | 1.60 | Maintenance Outage | Maintenance Outage until 2-16-2020 at 2400H.(RECLASSIFIED FROM FORCE. OMC O | Oct 1999 |
| LUZON | NATG | Sta. Rita 1 | 257.3 | 02/15/2020 0:53 | 02/23/2020 3:29 | 8.11 | Maintenance Outage | On Maintenance Outage | Jun 2000 |
| LUZON | HYD | Kalayaan 3 | 180 | 02/15/2020 1:22 | 02/21/2020 15:26 | 6.59 | Forced Outage | On emergency shutdown due to Tubine bearing temp. high. | May 2004 |
| LUZON | HYD | Kalayaan 4 | 180 | 02/15/2020 1:23 | 02/15/2020 8:50 | 0.31 | Forced Outage | Affected by the tripping of San Juan - Lumban 230kV Lines 1 and 2 (isolated) | May 2004 |
| LUZON | NATG | Avion 1 | 50.3 | 02/16/2020 7:01 | 02/16/2020 16:01 | 0.38 | Maintenance Outage | Maintenance Outage | Aug 2015 |
| LUZON | COAL | ANDA 1 | 72 | 02/16/2020 13:17 | 02/22/2020 2:48 | 5.56 | Forced Outage | Emergency shutdown due to high furnace pressure | Apr 2015 |
| LUZON | HYD | Binga 1 | 35 | 02/18/2020 8:01 | 02/21/2020 19:07 | 3.46 | Planned Outage | Maintenance Outage until 22 February 2020 | Jan 1960 |
| LUZON | OIL | SLPGC 4 | 25 | 02/19/2020 7:01 | 02/25/2020 8:08 | 6.05 | Forced Outage | Declared unavailable due to AVR diagnostic test | Mar 2017 |
| LUZON | COAL | SLPGC 2 | 150 | 02/19/2020 23:57 | | | Planned Outage | Maintenance outage. | Jan 2015 |
| VISAYAS | OIL | TPC Carmen 2 | 10 | 02/20/2020 12:11 | 02/21/2020 9:09 | 0.87 | Forced Outage | REPAIR OF TURBO CHARGER | Mar 1979 |
| LUZON | COAL | Pagbilao 1 | 382 | 02/20/2020 19:31 | | | Forced Outage | Tripped off due to Boiler tube leak. | Mar 1996 |
| VISAYAS | COAL | TPC Sangi 2 | 85 | 02/20/2020 20:57 | 02/23/2020 23:50 | 3.12 | Forced Outage | UNIT EMERGENCY CUT-OUT FROM THE SYSTEM DUE TO BOILER TUBE LEAK PROBLEM | Dec 2013 |
| LUZON | COAL | Sual 2 | 647 | 02/21/2020 23:34 | 02/23/2020 11:19 | 1.49 | Maintenance Outage | Maintenance Outage until 26 February 2020 | Oct 1999 |
| LUZON | COAL | SLTEC 1 | 121 | 02/21/2020 23:50 | | | Planned Outage | Maintenance Outage until 07 March 2020 | Sep 2014 |
| LUZON | OIL | Limay 5 | 60 | 02/22/2020 0:10 | 02/22/2020 21:42 | 0.90 | Forced Outage | Declared unavailable due to detached Air Intake Elbow Rubber Bellows. | Dec 1994 |
| LUZON | GEO | Tiwi 5 | 57 | 02/22/2020 8:14 | 02/22/2020 14:10 | 0.25 | Forced Outage | Emergency shutdown to facilitate repair of steam leak. | Jan 1979 |
| LUZON | OIL | Limay 1 | 60 | 02/23/2020 10:47 | | | Forced Outage | Combustion problem. | May 1993 |
| LUZON | OIL | MGTPP | 100 | 02/24/2020 9:09 | 02/24/2020 22:11 | 0.54 | Forced Outage | Tripping of aux. transformer | Jan 1993 |
| LUZON | COAL | Masinloc 3 | 335 | 02/24/2020 13:28 | 02/25/2020 21:43 | 1.34 | Forced Outage | Tripped with 107MW load. On commissioning test | Mar 2019 |
| LUZON | COAL | SMC 2 | 150 | 02/25/2020 12:41 | | | Forced Outage | Emergency shutdown to rectify the observed hotspot on the connectors of SCPC Unit | Mar 2017 |