

Power Supply Procurement Plan 2021

SURIGAO DEL NORTE ELECTRIC COOPERATIVE, INC.

(SURNECO)

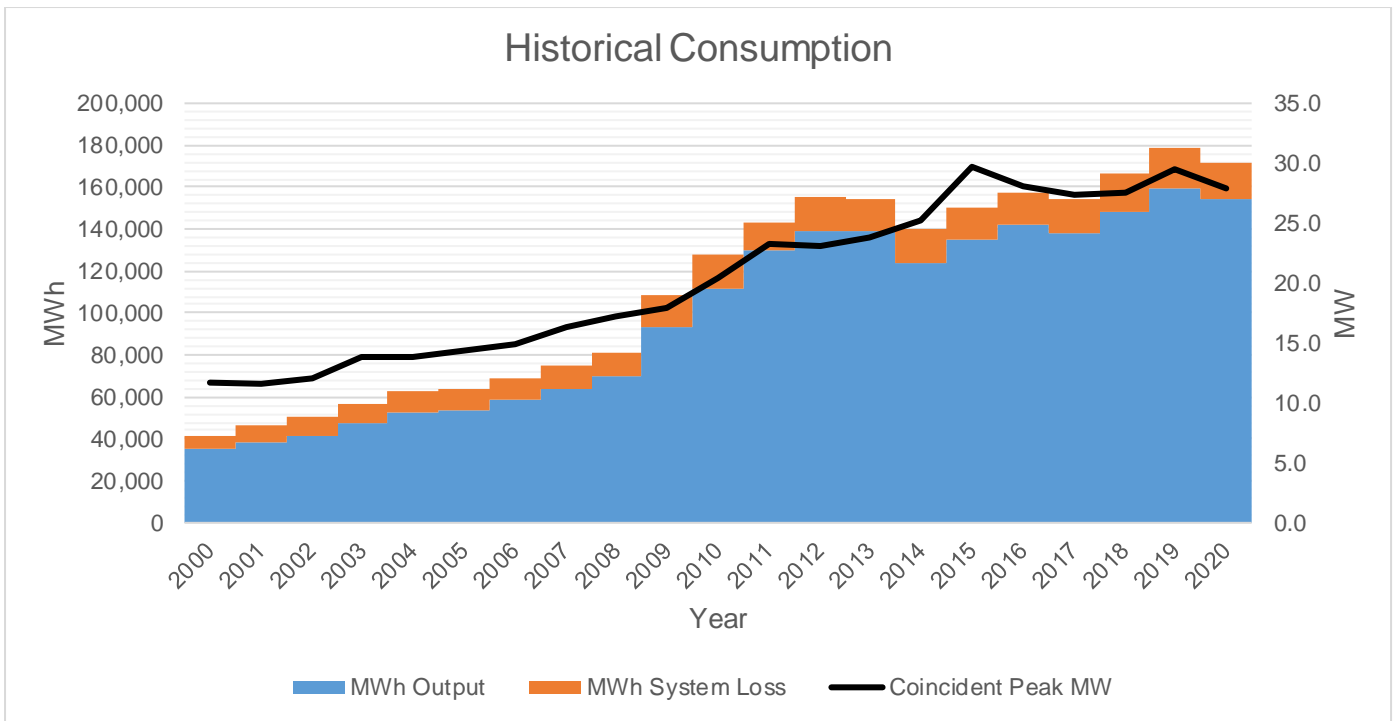
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Historical Consumption Data

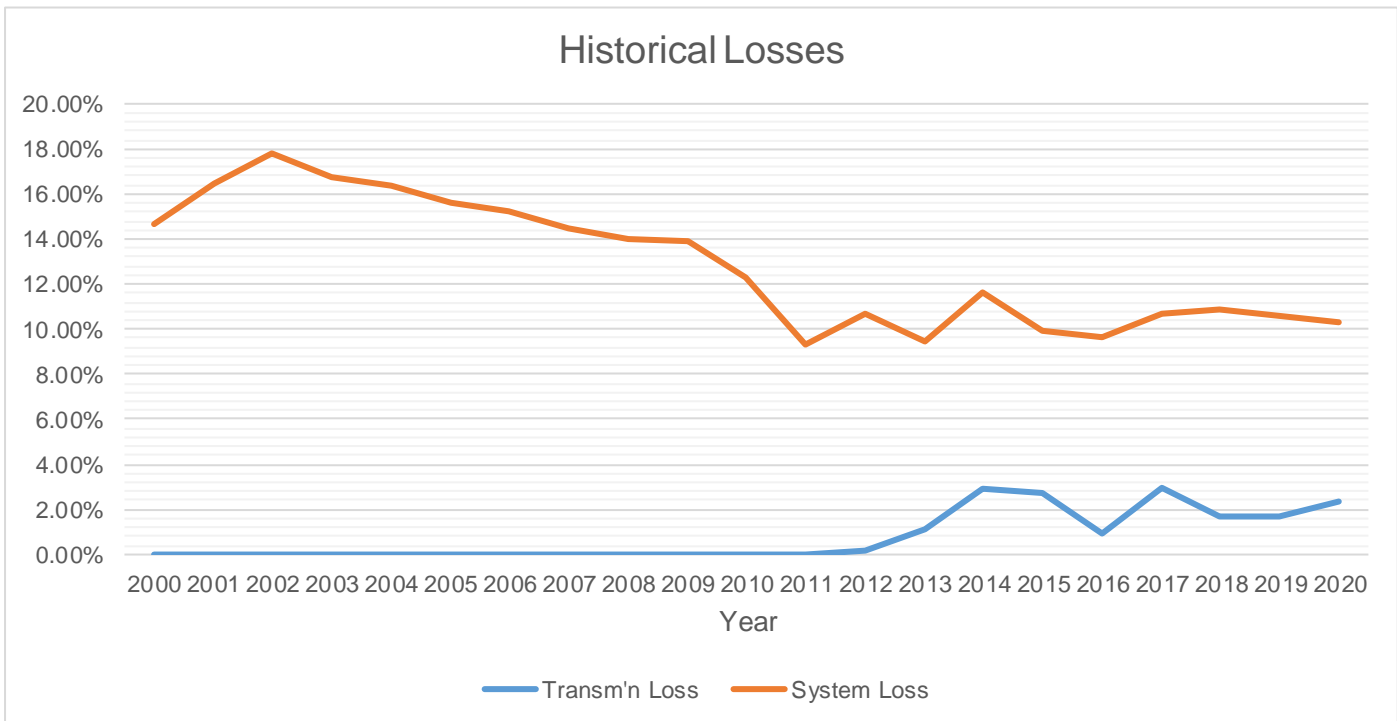
| | Coincident Peak MW | MWh Offtake | WESM | MWh Input | MWh Output | MWh System Loss | Load Factor | Discrepancy | Transm'n Loss | System Loss |
|------|--------------------|-------------|------|-----------|------------|-----------------|-------------|-------------|---------------|-------------|
| 2000 | 11.68 | 41,481 | 0 | 41,481 | 35,419 | 6,063 | 41% | 0.00% | 0.00% | 14.62% |
| 2001 | 11.60 | 46,323 | 0 | 46,323 | 38,685 | 7,638 | 46% | 0.00% | 0.00% | 16.49% |
| 2002 | 12.06 | 50,670 | 0 | 50,670 | 41,651 | 9,019 | 48% | 0.00% | 0.00% | 17.80% |
| 2003 | 13.77 | 56,449 | 0 | 56,449 | 47,004 | 9,445 | 47% | 0.00% | 0.00% | 16.73% |
| 2004 | 13.78 | 63,271 | 0 | 63,271 | 52,921 | 10,350 | 52% | 0.00% | 0.00% | 16.36% |
| 2005 | 14.34 | 64,055 | 0 | 64,055 | 54,040 | 10,016 | 51% | 0.00% | 0.00% | 15.64% |
| 2006 | 14.99 | 69,191 | 0 | 69,191 | 58,686 | 10,505 | 53% | 0.00% | 0.00% | 15.18% |
| 2007 | 16.37 | 75,050 | 0 | 75,050 | 64,209 | 10,841 | 52% | 0.00% | 0.00% | 14.45% |
| 2008 | 17.23 | 81,181 | 0 | 81,181 | 69,804 | 11,377 | 54% | 0.00% | 0.00% | 14.01% |
| 2009 | 17.89 | 108,579 | 0 | 108,579 | 93,511 | 15,067 | 69% | 0.00% | 0.00% | 13.88% |
| 2010 | 20.39 | 127,426 | 0 | 127,426 | 111,774 | 15,652 | 71% | 0.00% | 0.00% | 12.28% |
| 2011 | 23.23 | 143,083 | 0 | 143,083 | 129,754 | 13,329 | 70% | 0.00% | 0.00% | 9.32% |
| 2012 | 23.04 | 155,606 | 0 | 155,347 | 138,735 | 16,612 | 77% | 0.00% | 0.17% | 10.69% |
| 2013 | 23.86 | 155,895 | 0 | 154,175 | 139,558 | 14,618 | 74% | 0.00% | 1.10% | 9.48% |
| 2014 | 25.28 | 144,704 | 0 | 140,532 | 124,219 | 16,313 | 63% | 0.00% | 2.88% | 11.61% |
| 2015 | 29.71 | 154,483 | 0 | 150,229 | 135,258 | 14,971 | 58% | 0.00% | 2.75% | 9.97% |
| 2016 | 28.10 | 158,384 | 0 | 156,899 | 141,838 | 15,061 | 64% | 0.00% | 0.94% | 9.60% |
| 2017 | 27.39 | 159,470 | 0 | 154,750 | 138,156 | 16,594 | 64% | 0.00% | 2.96% | 10.72% |
| 2018 | 27.50 | 169,154 | 0 | 166,325 | 148,292 | 18,032 | 69% | 0.00% | 1.67% | 10.84% |
| 2019 | 29.54 | 181,514 | 0 | 178,495 | 159,532 | 18,963 | 69% | 0.00% | 1.66% | 10.62% |
| 2020 | 27.96 | 176,225 | 0 | 172,147 | 154,465 | 17,681 | 70% | 0.00% | 2.31% | 10.27% |

Peak Demand increased from 11.60 MW in 2001 to 29.54 MW in 2019 at a rate of 4.10% due to increasing trend of energy used by captive customer. MWh Offtake increased from 41,481 MWh in 2000 to 181,514 MWh in 2019 at a rate of 6.73% due to increasing trend of energy used by captive. Within the same period, Load Factor ranged from 41% to 77%. There was an abrupt change in consumption due to entrance of Large Load such as Mining Industries. In the year 2020, there was a decrease in coincident peak from 29.54 MW in 2019 to 27.96MW in 2020 due to covid-19 pandemic restrictions and lockdowns where commercial, industrial and other customer operations are greatly affected/ even shut downed its operation. During covid-19 lockdowns more people are confined in their homes, energy consumption in the Residential consumers increased while commercial, industrial and other customer sectors are having their limited/ even shut downed operation which resulted to the decrease in their respective energy sales.

The coop use is part of the Commercial/Low voltage mWh Sales. Slight increased of coop use in year 2020 is attributed to the construction of Consumer Centre Phase 1.



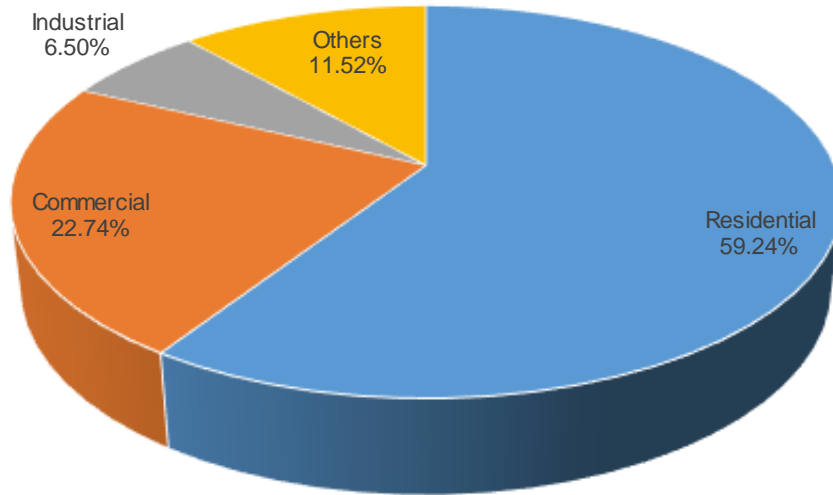
MWh Output increased from year 2020 to year 2020 at a rate of 6.73%, while MWh System Loss increased at a rate of 4.61% within the same period.



Historically, Transmission Loss ranged from 0.17% to 2.96% while System Loss ranged from 17.80% to 9.32%. Transmission Loss peaked at 2.96% on year 2017 because of steadily increasing load. Our Transmission Loss available system data started in the year 2012 only. System Loss peaked at 17.80% on year 2002 because the substation is located 13kms away from the city proper- the system load center.

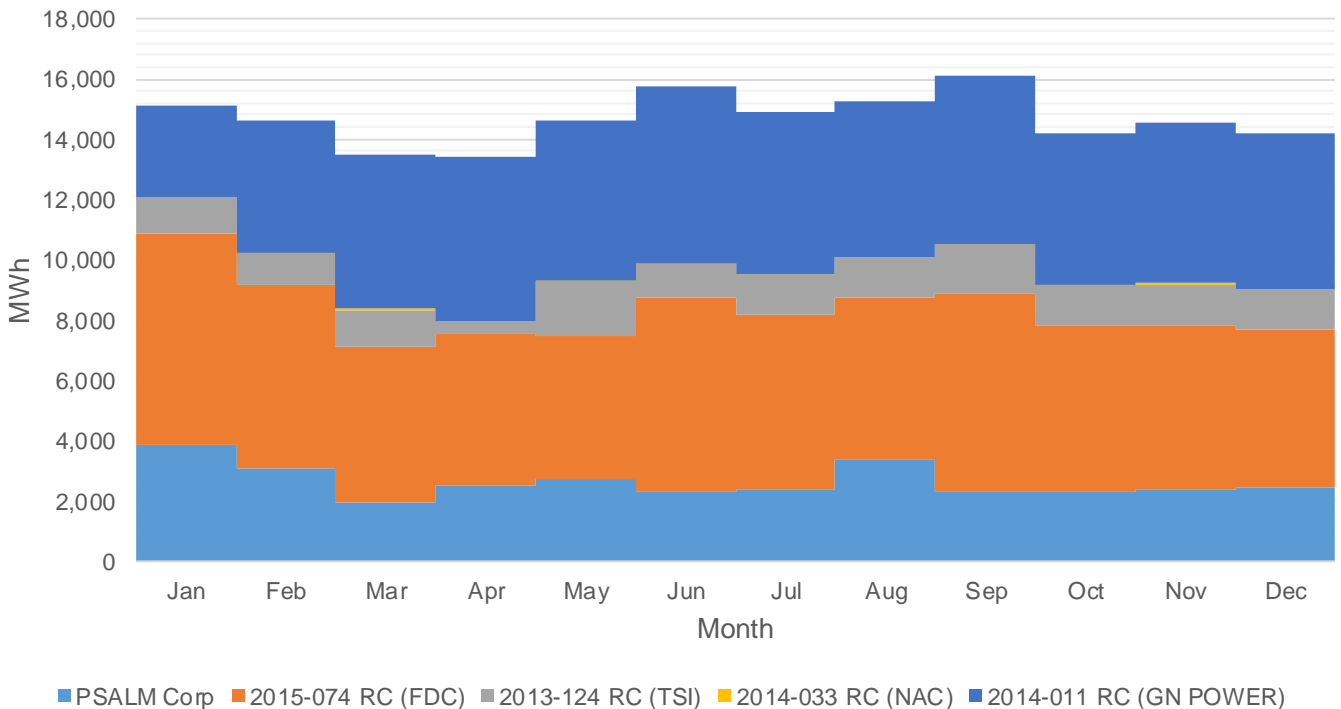
System Loss data for SubTx & SS Technical loss and Non-Technical Loss is only available in year 2014 to present.

Previous Year's Shares of Energy Sales

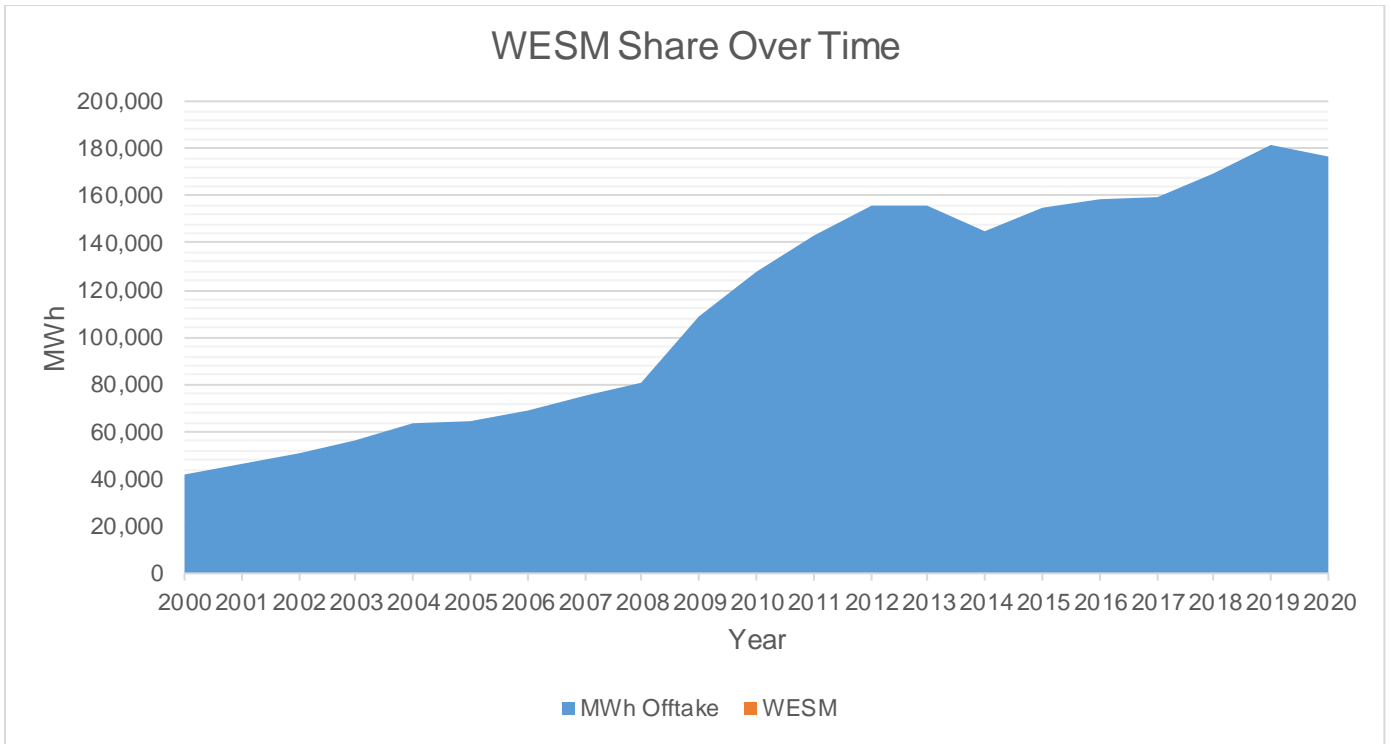


Residential customers account for the bulk of energy sales at 59.24% due to the high number of connections. In contrast, Industrial customers accounted for only 6.5% of energy sales due to the low number of connections.

MWh Offtake for Last Historical Year



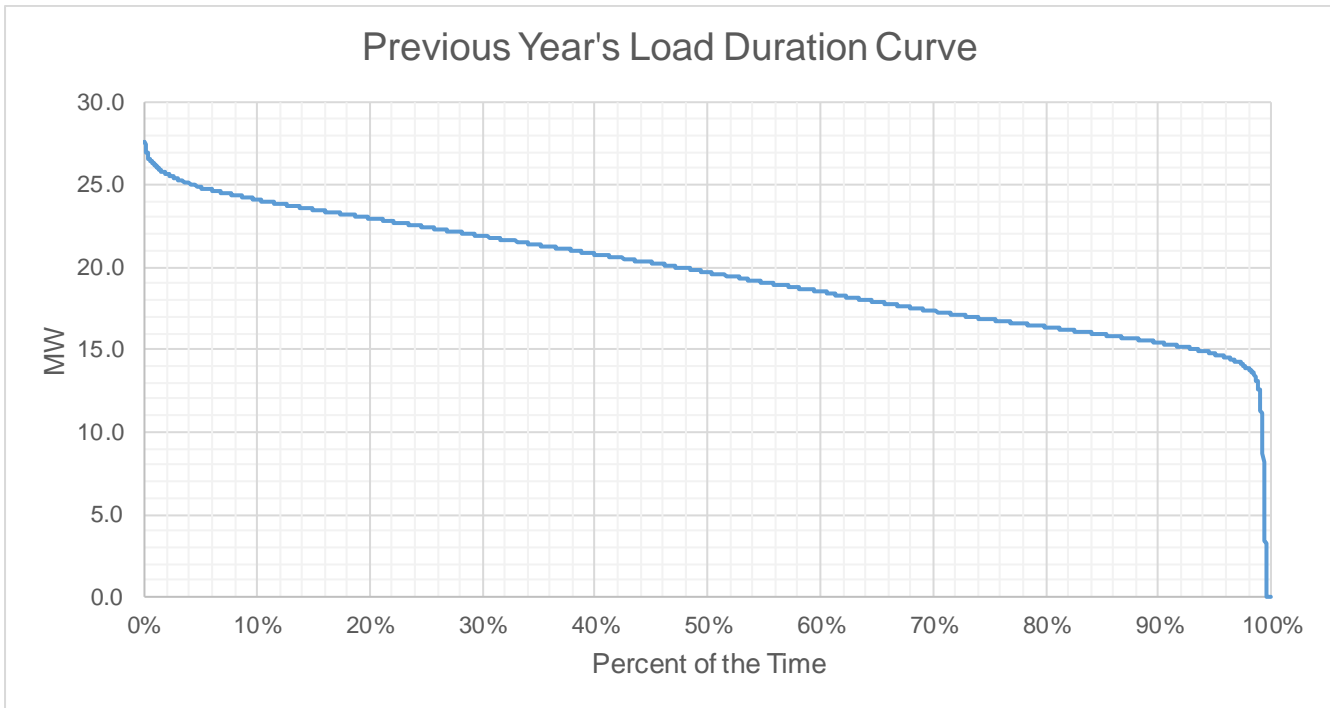
For 2020, the total Offtake for the last historical year is lower than the quantity stipulated in the PSA. The PSA with FDC. accounts for the bulk of MWh Offtake.



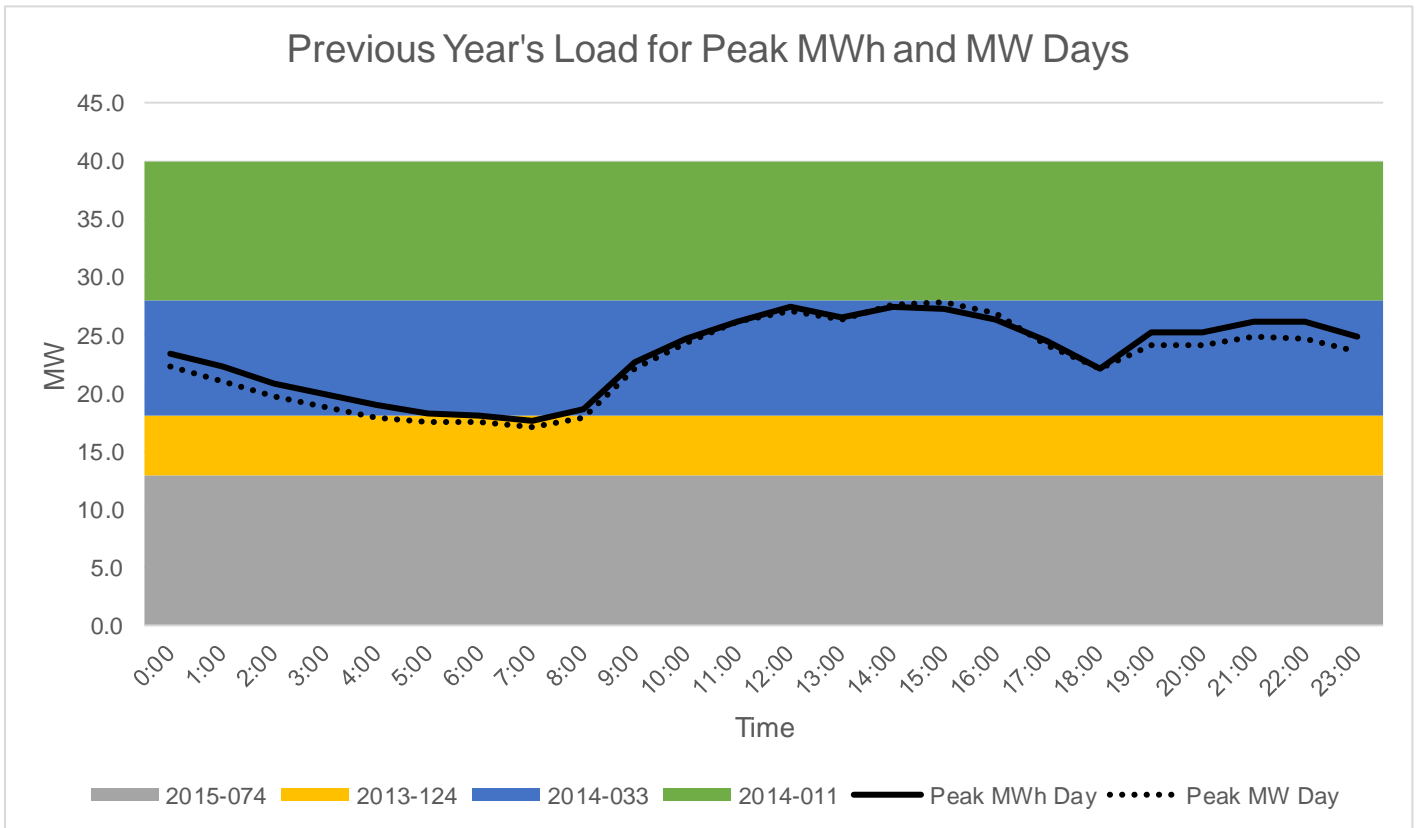
No WESM in Mindanao yet.

SURNECO's application for registration as an Indirect WESM Member (Electric Cooperative Category) has been approved 28 May 2021.

Previous Year's Load Profile

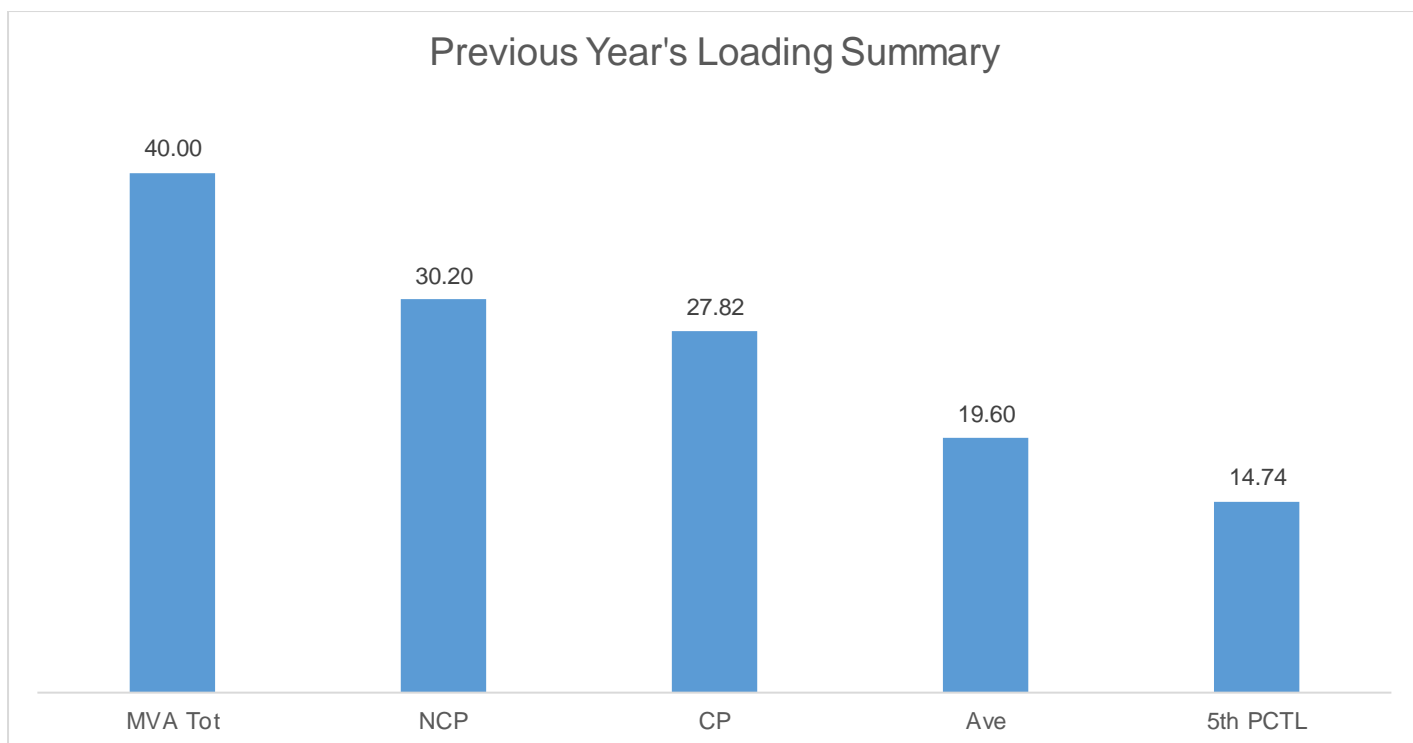


Based on the Load Duration Curve, the minimum load is 0 MW and the maximum load is 27.96 MW for the last historical year.



Peak MW occurred on 12:00 noon due to increase of consumption of captive customers at that time. Peak daily MWh occurred on 12:00 noon due to increase of consumption of captive customers at that time. As shown in the Load Curves, the available supply is higher than the Peak Demand.

Previous Year's Loading Summary



The Non-coincident Peak Demand is 30.20 MW, which is around 75.5% of the total substation capacity of 40 MVA at a power factor of 0.755. The load factor or the ratio between the Average Load of 19.60 MW and the Non-coincident Peak Demand is 64.9% of. A safe estimate of the true minimum load is the fifth percentile load of 14.74 MW which is 48.81% of the Non-coincident Peak Demand.

| Metering Point | Substation MVA | Substation Peak MW |
|----------------|----------------|--------------------|
| M2 Mapaso | 5 | 0.000 |
| M3 Luna | 20 | 18.700 |
| M4 Claver | 5 | 4.915 |
| M6 Tubod | 10 | 6.587 |

The substations loaded at above 70% are M3-Looc Substation and M4-Ladgaron Substation. This loading problem will be solved by installing new capacity through capital expenditure projects. As of 2020 we have an on-going construction of 10 MVA Substation at Sta. Cruz, Placer, Surigao del Norte which will help resolve temporarily the M3-Looc Substation overloading as well replacement of decommissioned and dilapidated M2-Mapaso 5 MVA Substation. M2-Mapaso 5 MVA Substation was decommissioned last 2019. Additional capex projects will be filed by 2021 to address permanently the overloading problem of the M3-Looc and M4-Ladgaron Substations. The embedded generation Nickel Asia Corporation (NAC) is a peaking plant it has a 15-year Build-Operate-Transfer Contract Scheme with SURNECO. NAC's output energy is in M3-Luna 20MVA Substation to cater the load during peak hours/ in times of slightly deficient supply.

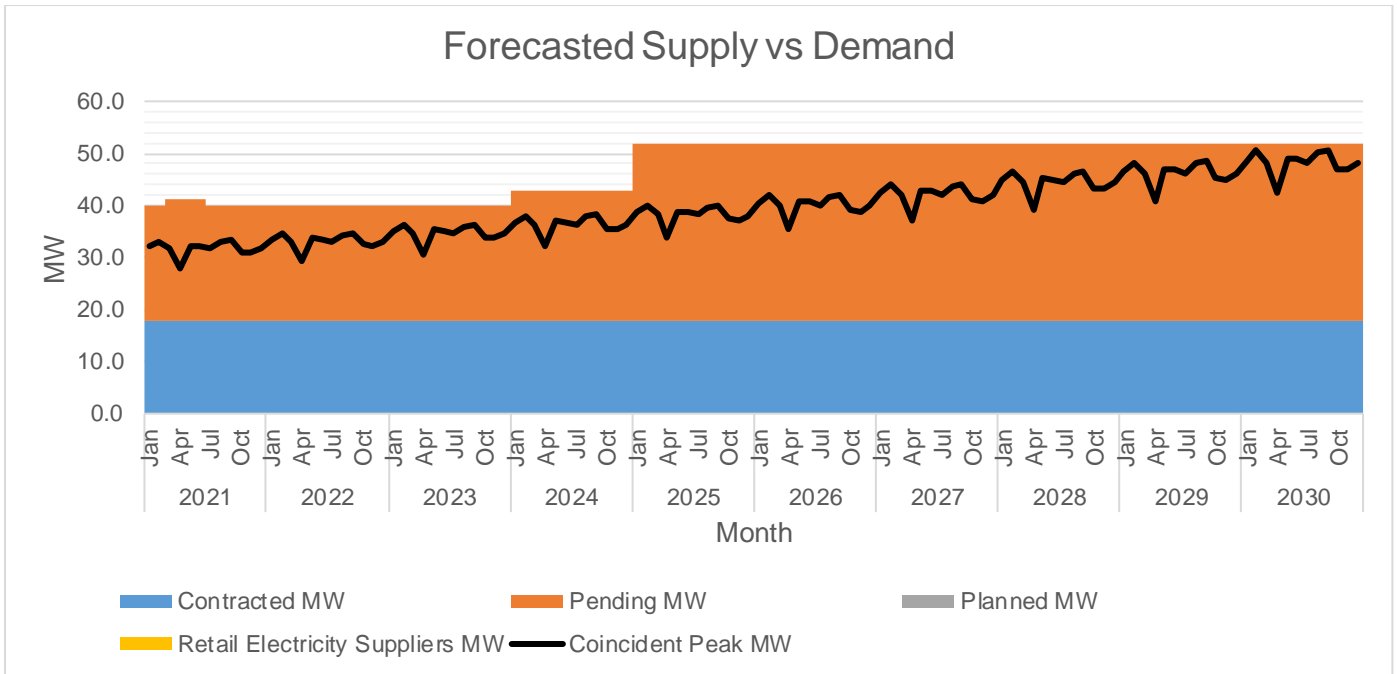
Forecasted Consumption Data

| | | Coincident Peak MW | Contracted MW | Pending MW | Planned MW | Retail Electricity Suppliers MW | Existing Contracting Level | Target Contracting Level | MW Surplus / Deficit |
|------|-----|--------------------|---------------|------------|------------|---------------------------------|----------------------------|--------------------------|----------------------|
| 2021 | Jan | 32.00 | 18.00 | 22.00 | 0.000 | | 56% | 125% | 8.00 |
| | Feb | 33.13 | 18.00 | 22.00 | 0.000 | | 54% | 121% | 6.87 |
| | Mar | 31.62 | 18.00 | 23.00 | 0.000 | | 57% | 130% | 9.38 |
| | Apr | 27.89 | 18.00 | 23.00 | 0.000 | | 65% | 147% | 13.11 |
| | May | 32.24 | 18.00 | 23.00 | 0.000 | | 56% | 127% | 8.76 |
| | Jun | 32.08 | 18.00 | 23.00 | 0.000 | | 56% | 128% | 8.92 |
| | Jul | 31.69 | 18.00 | 22.00 | 0.000 | | 57% | 126% | 8.31 |
| | Aug | 32.88 | 18.00 | 22.00 | 0.000 | | 55% | 122% | 7.12 |
| | Sep | 33.23 | 18.00 | 22.00 | 0.000 | | 54% | 120% | 6.77 |
| | Oct | 30.98 | 18.00 | 22.00 | 0.000 | | 58% | 129% | 9.02 |
| | Nov | 30.76 | 18.00 | 22.00 | 0.000 | | 59% | 130% | 9.24 |
| | Dec | 31.61 | 18.00 | 22.00 | 0.000 | | 57% | 127% | 8.39 |
| 2022 | Jan | 33.48 | 18.00 | 22.00 | 0.000 | | 54% | 119% | 6.52 |
| | Feb | 34.66 | 18.00 | 22.00 | 0.000 | | 52% | 115% | 5.34 |
| | Mar | 33.08 | 18.00 | 22.00 | 0.000 | | 54% | 121% | 6.92 |
| | Apr | 29.18 | 18.00 | 22.00 | 0.000 | | 62% | 137% | 10.82 |
| | May | 33.73 | 18.00 | 22.00 | 0.000 | | 53% | 119% | 6.27 |
| | Jun | 33.56 | 18.00 | 22.00 | 0.000 | | 54% | 119% | 6.44 |
| | Jul | 33.16 | 18.00 | 22.00 | 0.000 | | 54% | 121% | 6.84 |
| | Aug | 34.40 | 18.00 | 22.00 | 0.000 | | 52% | 116% | 5.60 |
| | Sep | 34.77 | 18.00 | 22.00 | 0.000 | | 52% | 115% | 5.23 |
| | Oct | 32.41 | 18.00 | 22.00 | 0.000 | | 56% | 123% | 7.59 |
| | Nov | 32.17 | 18.00 | 22.00 | 0.000 | | 56% | 124% | 7.83 |
| | Dec | 33.07 | 18.00 | 22.00 | 0.000 | | 54% | 121% | 6.93 |
| 2023 | Jan | 35.06 | 18.00 | 22.00 | 0.000 | | 51% | 114% | 4.94 |
| | Feb | 36.31 | 18.00 | 22.00 | 0.000 | | 50% | 110% | 3.69 |
| | Mar | 34.65 | 18.00 | 22.00 | 0.000 | | 52% | 115% | 5.35 |
| | Apr | 30.56 | 18.00 | 22.00 | 0.000 | | 59% | 131% | 9.44 |
| | May | 35.33 | 18.00 | 22.00 | 0.000 | | 51% | 113% | 4.67 |
| | Jun | 35.15 | 18.00 | 22.00 | 0.000 | | 51% | 114% | 4.85 |
| | Jul | 34.73 | 18.00 | 22.00 | 0.000 | | 52% | 115% | 5.27 |
| | Aug | 36.03 | 18.00 | 22.00 | 0.000 | | 50% | 111% | 3.97 |
| | Sep | 36.41 | 18.00 | 22.00 | 0.000 | | 49% | 110% | 3.59 |
| | Oct | 33.94 | 18.00 | 22.00 | 0.000 | | 53% | 118% | 6.06 |
| | Nov | 33.70 | 18.00 | 22.00 | 0.000 | | 53% | 119% | 6.30 |
| | Dec | 34.63 | 18.00 | 22.00 | 0.000 | | 52% | 115% | 5.37 |
| 2024 | Jan | 36.75 | 18.00 | 25.00 | 0.000 | | 49% | 117% | 6.25 |
| | Feb | 38.05 | 18.00 | 25.00 | 0.000 | | 47% | 113% | 4.95 |
| | Mar | 36.32 | 18.00 | 25.00 | 0.000 | | 50% | 118% | 6.68 |
| | Apr | 32.03 | 18.00 | 25.00 | 0.000 | | 56% | 134% | 10.97 |
| | May | 37.03 | 18.00 | 25.00 | 0.000 | | 49% | 116% | 5.97 |
| | Jun | 36.84 | 18.00 | 25.00 | 0.000 | | 49% | 117% | 6.16 |
| | Jul | 36.40 | 18.00 | 25.00 | 0.000 | | 49% | 118% | 6.60 |
| | Aug | 37.76 | 18.00 | 25.00 | 0.000 | | 48% | 114% | 5.24 |
| | Sep | 38.17 | 18.00 | 25.00 | 0.000 | | 47% | 113% | 4.83 |

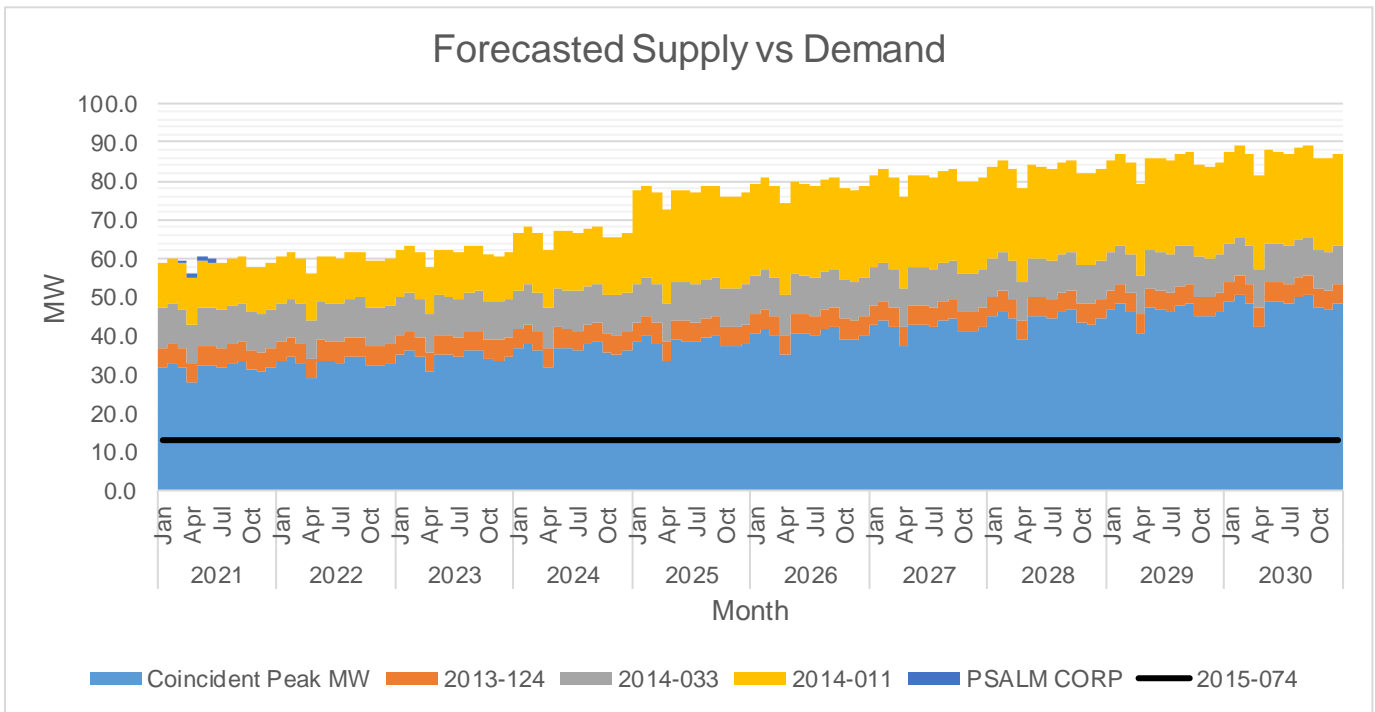
| | | Coincident Peak MW | Contracted MW | Pending MW | Planned MW | Retail Electricity Suppliers MW | Existing Contracting Level | Target Contracting Level | MW Surplus / Deficit |
|------|-----|--------------------|---------------|------------|------------|---------------------------------|----------------------------|--------------------------|----------------------|
| | Oct | 35.58 | 18.00 | 25.00 | 0.000 | | 51% | 121% | 7.42 |
| | Nov | 35.32 | 18.00 | 25.00 | 0.000 | | 51% | 122% | 7.68 |
| | Dec | 36.30 | 18.00 | 25.00 | 0.000 | | 50% | 118% | 6.70 |
| 2025 | Jan | 38.57 | 18.00 | 33.80 | 0.000 | | 47% | 134% | 13.23 |
| | Feb | 39.94 | 18.00 | 33.80 | 0.000 | | 45% | 130% | 11.86 |
| | Mar | 38.12 | 18.00 | 33.80 | 0.000 | | 47% | 136% | 13.68 |
| | Apr | 33.62 | 18.00 | 33.80 | 0.000 | | 54% | 154% | 18.18 |
| | May | 38.86 | 18.00 | 33.80 | 0.000 | | 46% | 133% | 12.94 |
| | Jun | 38.67 | 18.00 | 33.80 | 0.000 | | 47% | 134% | 13.13 |
| | Jul | 38.20 | 18.00 | 33.80 | 0.000 | | 47% | 136% | 13.60 |
| | Aug | 39.63 | 18.00 | 33.80 | 0.000 | | 45% | 131% | 12.17 |
| | Sep | 40.06 | 18.00 | 33.80 | 0.000 | | 45% | 129% | 11.74 |
| | Oct | 37.34 | 18.00 | 33.80 | 0.000 | | 48% | 139% | 14.46 |
| | Nov | 37.07 | 18.00 | 33.80 | 0.000 | | 49% | 140% | 14.73 |
| | Dec | 38.10 | 18.00 | 33.80 | 0.000 | | 47% | 136% | 13.70 |
| 2026 | Jan | 40.51 | 18.00 | 33.80 | 0.000 | | 44% | 128% | 11.29 |
| | Feb | 41.95 | 18.00 | 33.80 | 0.000 | | 43% | 123% | 9.85 |
| | Mar | 40.04 | 18.00 | 33.80 | 0.000 | | 45% | 129% | 11.76 |
| | Apr | 35.31 | 18.00 | 33.80 | 0.000 | | 51% | 147% | 16.49 |
| | May | 40.82 | 18.00 | 33.80 | 0.000 | | 44% | 127% | 10.98 |
| | Jun | 40.61 | 18.00 | 33.80 | 0.000 | | 44% | 128% | 11.19 |
| | Jul | 40.13 | 18.00 | 33.80 | 0.000 | | 45% | 129% | 11.67 |
| | Aug | 41.63 | 18.00 | 33.80 | 0.000 | | 43% | 124% | 10.17 |
| | Sep | 42.07 | 18.00 | 33.80 | 0.000 | | 43% | 123% | 9.73 |
| | Oct | 39.22 | 18.00 | 33.80 | 0.000 | | 46% | 132% | 12.58 |
| | Nov | 38.94 | 18.00 | 33.80 | 0.000 | | 46% | 133% | 12.86 |
| | Dec | 40.02 | 18.00 | 33.80 | 0.000 | | 45% | 129% | 11.78 |
| 2027 | Jan | 42.59 | 18.00 | 33.80 | 0.000 | | 42% | 122% | 9.21 |
| | Feb | 44.10 | 18.00 | 33.80 | 0.000 | | 41% | 117% | 7.70 |
| | Mar | 42.09 | 18.00 | 33.80 | 0.000 | | 43% | 123% | 9.71 |
| | Apr | 37.12 | 18.00 | 33.80 | 0.000 | | 48% | 140% | 14.68 |
| | May | 42.91 | 18.00 | 33.80 | 0.000 | | 42% | 121% | 8.89 |
| | Jun | 42.69 | 18.00 | 33.80 | 0.000 | | 42% | 121% | 9.11 |
| | Jul | 42.18 | 18.00 | 33.80 | 0.000 | | 43% | 123% | 9.62 |
| | Aug | 43.76 | 18.00 | 33.80 | 0.000 | | 41% | 118% | 8.04 |
| | Sep | 44.23 | 18.00 | 33.80 | 0.000 | | 41% | 117% | 7.57 |
| | Oct | 41.23 | 18.00 | 33.80 | 0.000 | | 44% | 126% | 10.57 |
| | Nov | 40.93 | 18.00 | 33.80 | 0.000 | | 44% | 127% | 10.87 |
| | Dec | 42.06 | 18.00 | 33.80 | 0.000 | | 43% | 123% | 9.74 |
| 2028 | Jan | 44.82 | 18.00 | 33.80 | 0.000 | | 40% | 116% | 6.98 |
| | Feb | 46.41 | 18.00 | 33.80 | 0.000 | | 39% | 112% | 5.39 |
| | Mar | 44.29 | 18.00 | 33.80 | 0.000 | | 41% | 117% | 7.51 |
| | Apr | 39.06 | 18.00 | 33.80 | 0.000 | | 46% | 133% | 12.74 |
| | May | 45.16 | 18.00 | 33.80 | 0.000 | | 40% | 115% | 6.64 |
| | Jun | 44.93 | 18.00 | 33.80 | 0.000 | | 40% | 115% | 6.87 |
| | Jul | 44.39 | 18.00 | 33.80 | 0.000 | | 41% | 117% | 7.41 |
| | Aug | 46.05 | 18.00 | 33.80 | 0.000 | | 39% | 112% | 5.75 |
| | Sep | 46.55 | 18.00 | 33.80 | 0.000 | | 39% | 111% | 5.25 |

| | | Coincident Peak MW | Contracted MW | Pending MW | Planned MW | Retail Electricity Suppliers MW | Existing Contracting Level | Target Contracting Level | MW Surplus / Deficit |
|------|-----|--------------------|---------------|------------|------------|---------------------------------|----------------------------|--------------------------|----------------------|
| | Oct | 43.39 | 18.00 | 33.80 | 0.000 | | 41% | 119% | 8.41 |
| | Nov | 43.08 | 18.00 | 33.80 | 0.000 | | 42% | 120% | 8.72 |
| | Dec | 44.27 | 18.00 | 33.80 | 0.000 | | 41% | 117% | 7.53 |
| 2029 | Jan | 46.71 | 18.00 | 33.80 | 0.000 | | 39% | 111% | 5.09 |
| | Feb | 48.37 | 18.00 | 33.80 | 0.000 | | 37% | 107% | 3.43 |
| | Mar | 46.16 | 18.00 | 33.80 | 0.000 | | 39% | 112% | 5.64 |
| | Apr | 40.71 | 18.00 | 33.80 | 0.000 | | 44% | 127% | 11.09 |
| | May | 47.06 | 18.00 | 33.80 | 0.000 | | 38% | 110% | 4.74 |
| | Jun | 46.83 | 18.00 | 33.80 | 0.000 | | 38% | 111% | 4.97 |
| | Jul | 46.26 | 18.00 | 33.80 | 0.000 | | 39% | 112% | 5.54 |
| | Aug | 48.00 | 18.00 | 33.80 | 0.000 | | 38% | 108% | 3.80 |
| | Sep | 48.51 | 18.00 | 33.80 | 0.000 | | 37% | 107% | 3.29 |
| | Oct | 45.22 | 18.00 | 33.80 | 0.000 | | 40% | 115% | 6.58 |
| | Nov | 44.89 | 18.00 | 33.80 | 0.000 | | 40% | 115% | 6.91 |
| | Dec | 46.14 | 18.00 | 33.80 | 0.000 | | 39% | 112% | 5.66 |
| 2030 | Jan | 48.69 | 18.00 | 33.80 | 0.000 | | 37% | 106% | 3.11 |
| | Feb | 50.42 | 18.00 | 33.80 | 0.000 | | 36% | 103% | 1.38 |
| | Mar | 48.12 | 18.00 | 33.80 | 0.000 | | 37% | 108% | 3.68 |
| | Apr | 42.44 | 18.00 | 33.80 | 0.000 | | 42% | 122% | 9.36 |
| | May | 49.06 | 18.00 | 33.80 | 0.000 | | 37% | 106% | 2.74 |
| | Jun | 48.81 | 18.00 | 33.80 | 0.000 | | 37% | 106% | 2.99 |
| | Jul | 48.23 | 18.00 | 33.80 | 0.000 | | 37% | 107% | 3.57 |
| | Aug | 50.03 | 18.00 | 33.80 | 0.000 | | 36% | 104% | 1.77 |
| | Sep | 50.57 | 18.00 | 33.80 | 0.000 | | 36% | 102% | 1.23 |
| | Oct | 47.14 | 18.00 | 33.80 | 0.000 | | 38% | 110% | 4.66 |
| | Nov | 46.80 | 18.00 | 33.80 | 0.000 | | 38% | 111% | 5.00 |
| | Dec | 48.10 | 18.00 | 33.80 | 0.000 | | 37% | 108% | 3.70 |

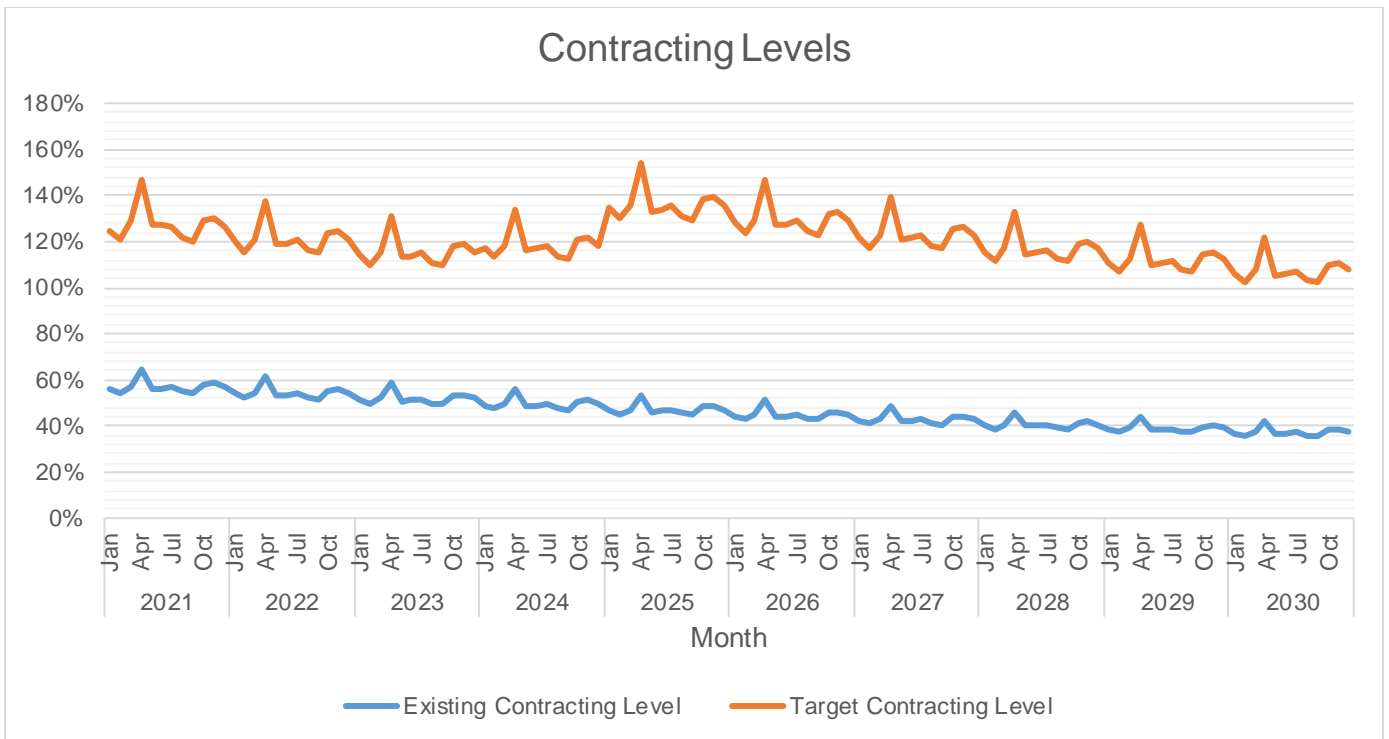
The Peak Demand was forecasted using trend analysis and was assumed to occur on the month of September due to increase in energy consumption during Surigao City fiesta. Monthly Peak Demand is at its lowest on the month of February due to low energy consumption of captive customers. In general, Peak Demand is expected to grow at a rate of 4.56% annually. The supply and demand are greatly affected by the large load-mining industries shut down brought by government regulations, expected loads in these customers are not meet as forecasted that resulted to Excess Capacity. Some mining industries are starting their rehabilitation for possible re-operation but no schedules of load are given hence, this cannot be reflected in the forecast. The re- operation of mining industries is expected to have a ripple effect in the surrounding Residential, industrial and commercial sectors in terms of increase demand and energy consumption.



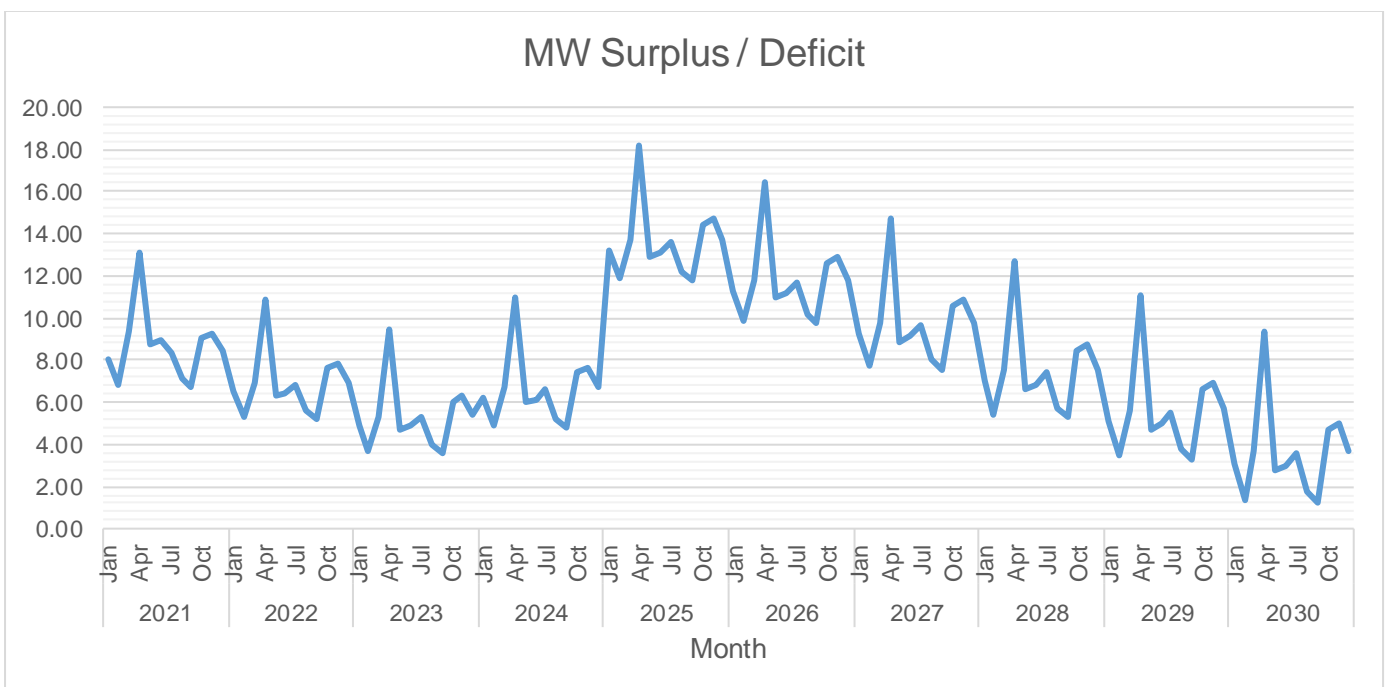
The available supply is generally above the Peak Demand. This is because the contracted supply capacity is generally higher than the demand due to shutting down of large load like mining industries.



Of the available supply, the largest is 23.8 MW from GN Power-Kauswagan Inc. This is followed by 13 MW from FDC-Misamis Corporation.



Currently, there is over-contracting by 143.05%. The highest target contracting level is 154% which is expected to occur in April 2025. The lowest target contracting level is 102% which is expected to occur in September 2030. NAC and GNPk are still having a provisionally approved PSA with ERC; the two-generation supplier has corresponding capacities of 10MW and 23.8MW respectively.



Currently, there is over-contracting by 12.04 MW. The highest surplus is 11.86 MW which is expected to occur on the month of February 2025. The lowest surplus is 1.23 MW which is expected to occur on the month of September 2030.

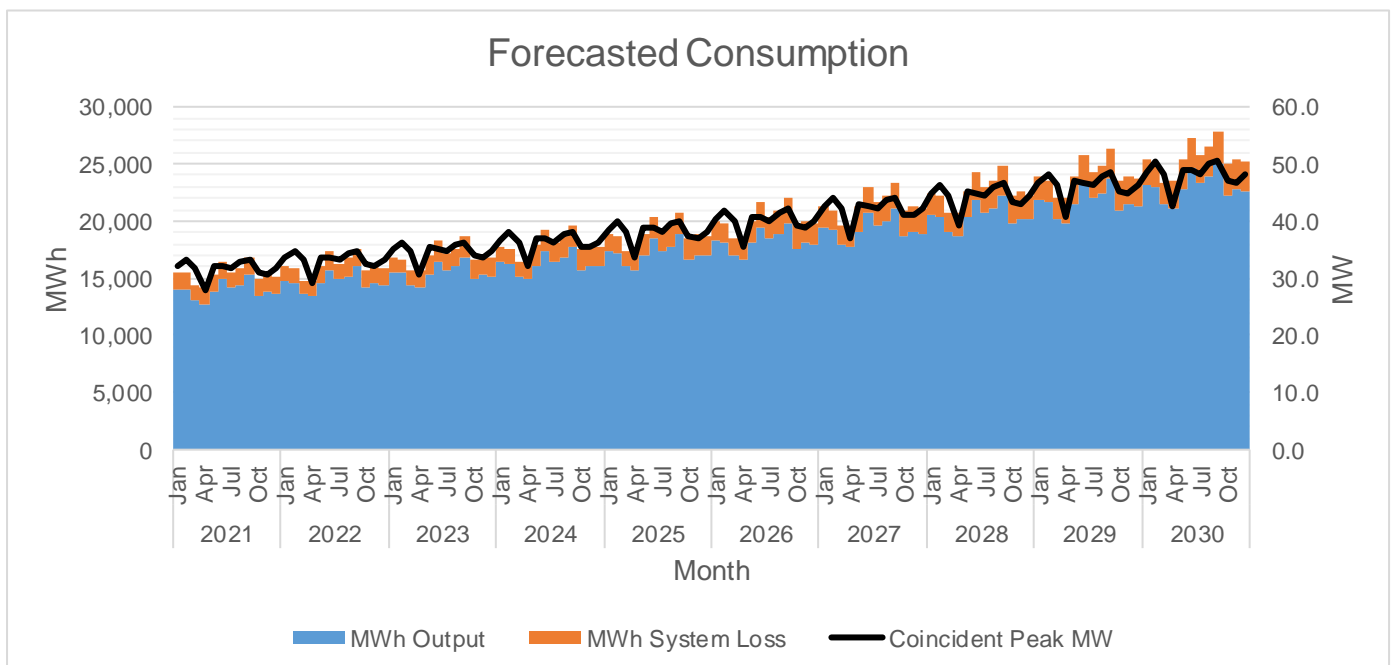
| | | MWh Offtake | MWh Output | MWh System Loss | Transm'n Loss | System Loss |
|------|-----|-------------|------------|-----------------|---------------|-------------|
| 2021 | Jan | 15,674 | 14,067 | 1,482 | 0.80% | 9.53% |
| | Feb | 15,597 | 13,951 | 1,550 | 0.62% | 10.00% |
| | Mar | 14,427 | 13,016 | 1,298 | 0.78% | 9.07% |
| | Apr | 14,280 | 12,795 | 1,363 | 0.86% | 9.62% |
| | May | 15,385 | 13,840 | 1,421 | 0.81% | 9.31% |
| | Jun | 16,600 | 14,940 | 1,499 | 0.97% | 9.12% |
| | Jul | 15,642 | 14,141 | 1,380 | 0.77% | 8.89% |
| | Aug | 16,027 | 14,452 | 1,443 | 0.82% | 9.08% |
| | Sep | 16,870 | 15,231 | 1,520 | 0.71% | 9.07% |
| | Oct | 15,052 | 13,504 | 1,451 | 0.64% | 9.70% |
| | Nov | 15,390 | 13,829 | 1,432 | 0.84% | 9.38% |
| | Dec | 15,164 | 13,716 | 1,364 | 0.56% | 9.04% |
| 2022 | Jan | 16,131 | 14,773 | 1,225 | 0.82% | 7.66% |
| | Feb | 15,938 | 14,653 | 1,147 | 0.87% | 7.26% |
| | Mar | 15,000 | 13,670 | 1,114 | 1.44% | 7.53% |
| | Apr | 14,958 | 13,436 | 1,377 | 0.97% | 9.30% |
| | May | 16,117 | 14,534 | 1,529 | 0.34% | 9.52% |
| | Jun | 17,394 | 15,689 | 1,607 | 0.56% | 9.29% |
| | Jul | 16,387 | 14,851 | 1,484 | 0.32% | 9.08% |
| | Aug | 16,896 | 15,178 | 1,557 | 0.96% | 9.30% |
| | Sep | 17,783 | 15,995 | 1,647 | 0.79% | 9.34% |
| | Oct | 15,857 | 14,182 | 1,584 | 0.58% | 10.05% |
| | Nov | 16,122 | 14,522 | 1,532 | 0.43% | 9.54% |
| | Dec | 15,975 | 14,405 | 1,468 | 0.64% | 9.25% |
| 2023 | Jan | 16,967 | 15,554 | 1,323 | 0.53% | 7.84% |
| | Feb | 16,757 | 15,428 | 1,241 | 0.53% | 7.44% |
| | Mar | 15,656 | 14,393 | 1,204 | 0.38% | 7.72% |
| | Apr | 15,707 | 14,144 | 1,486 | 0.49% | 9.51% |
| | May | 17,026 | 15,300 | 1,649 | 0.45% | 9.73% |
| | Jun | 18,372 | 16,518 | 1,724 | 0.71% | 9.45% |
| | Jul | 17,310 | 15,635 | 1,588 | 0.50% | 9.22% |
| | Aug | 17,746 | 15,979 | 1,659 | 0.61% | 9.40% |
| | Sep | 18,681 | 16,840 | 1,756 | 0.46% | 9.44% |
| | Oct | 16,736 | 14,931 | 1,705 | 0.60% | 10.25% |
| | Nov | 17,023 | 15,289 | 1,648 | 0.51% | 9.73% |
| | Dec | 16,761 | 15,166 | 1,574 | 0.12% | 9.40% |
| 2024 | Jan | 18,017 | 16,411 | 1,421 | 1.03% | 7.97% |
| | Feb | 17,777 | 16,279 | 1,329 | 0.95% | 7.55% |
| | Mar | 16,712 | 15,186 | 1,292 | 1.40% | 7.84% |
| | Apr | 16,657 | 14,920 | 1,594 | 0.86% | 9.65% |
| | May | 17,947 | 16,141 | 1,760 | 0.26% | 9.83% |
| | Jun | 19,364 | 17,426 | 1,846 | 0.47% | 9.58% |
| | Jul | 18,346 | 16,496 | 1,711 | 0.76% | 9.40% |
| | Aug | 18,812 | 16,858 | 1,785 | 0.90% | 9.58% |
| | Sep | 19,796 | 17,767 | 1,887 | 0.71% | 9.60% |
| | Oct | 17,735 | 15,752 | 1,822 | 0.90% | 10.37% |
| | Nov | 18,036 | 16,130 | 1,757 | 0.82% | 9.83% |
| | Dec | 17,856 | 16,001 | 1,685 | 0.95% | 9.53% |

| | | MWh Offtake | MWh Output | MWh System Loss | Transm'n Loss | System Loss |
|------|-----|-------------|------------|-----------------|---------------|-------------|
| 2025 | Jan | 18,970 | 17,344 | 1,515 | 0.58% | 8.04% |
| | Feb | 18,704 | 17,205 | 1,422 | 0.41% | 7.63% |
| | Mar | 17,508 | 16,049 | 1,382 | 0.44% | 7.93% |
| | Apr | 17,604 | 15,766 | 1,702 | 0.77% | 9.74% |
| | May | 19,067 | 17,058 | 1,879 | 0.68% | 9.92% |
| | Jun | 20,464 | 18,416 | 1,971 | 0.38% | 9.67% |
| | Jul | 19,383 | 17,434 | 1,823 | 0.65% | 9.47% |
| | Aug | 19,881 | 17,816 | 1,905 | 0.81% | 9.66% |
| | Sep | 20,921 | 18,777 | 2,012 | 0.63% | 9.68% |
| | Oct | 18,710 | 16,648 | 1,936 | 0.67% | 10.42% |
| | Nov | 19,080 | 17,046 | 1,887 | 0.78% | 9.96% |
| | Dec | 18,848 | 16,911 | 1,809 | 0.68% | 9.66% |
| 2026 | Jan | 20,209 | 18,355 | 1,638 | 1.07% | 8.19% |
| | Feb | 20,217 | 18,209 | 1,530 | 2.36% | 7.75% |
| | Mar | 18,690 | 16,985 | 1,497 | 1.12% | 8.10% |
| | Apr | 18,629 | 16,683 | 1,833 | 0.61% | 9.90% |
| | May | 20,272 | 18,050 | 2,026 | 0.96% | 10.09% |
| | Jun | 21,656 | 19,489 | 2,117 | 0.23% | 9.80% |
| | Jul | 20,606 | 18,449 | 1,967 | 0.93% | 9.63% |
| | Aug | 21,039 | 18,854 | 2,050 | 0.64% | 9.81% |
| | Sep | 22,139 | 19,870 | 2,168 | 0.45% | 9.84% |
| | Oct | 19,876 | 17,617 | 2,092 | 0.84% | 10.61% |
| | Nov | 20,248 | 18,038 | 2,026 | 0.91% | 10.10% |
| | Dec | 20,023 | 17,896 | 1,939 | 0.94% | 9.78% |
| 2027 | Jan | 21,337 | 19,444 | 1,755 | 0.65% | 8.28% |
| | Feb | 21,115 | 19,290 | 1,650 | 0.83% | 7.88% |
| | Mar | 19,788 | 17,993 | 1,606 | 0.96% | 8.19% |
| | Apr | 19,734 | 17,670 | 1,962 | 0.51% | 10.00% |
| | May | 21,362 | 19,119 | 2,171 | 0.34% | 10.20% |
| | Jun | 23,040 | 20,644 | 2,269 | 0.55% | 9.90% |
| | Jul | 21,816 | 19,543 | 2,103 | 0.78% | 9.72% |
| | Aug | 22,287 | 19,971 | 2,195 | 0.54% | 9.90% |
| | Sep | 23,451 | 21,049 | 2,314 | 0.38% | 9.90% |
| | Oct | 21,124 | 18,661 | 2,234 | 1.08% | 10.69% |
| | Nov | 21,530 | 19,107 | 2,167 | 1.19% | 10.19% |
| | Dec | 21,180 | 18,957 | 2,077 | 0.69% | 9.87% |
| 2028 | Jan | 22,653 | 20,611 | 1,867 | 0.77% | 8.31% |
| | Feb | 22,700 | 20,449 | 1,751 | 2.20% | 7.89% |
| | Mar | 20,986 | 19,073 | 1,706 | 0.99% | 8.21% |
| | Apr | 20,918 | 18,728 | 2,082 | 0.51% | 10.01% |
| | May | 22,737 | 20,265 | 2,305 | 0.73% | 10.21% |
| | Jun | 24,416 | 21,882 | 2,403 | 0.54% | 9.90% |
| | Jul | 23,113 | 20,716 | 2,234 | 0.71% | 9.73% |
| | Aug | 23,623 | 21,169 | 2,326 | 0.55% | 9.90% |
| | Sep | 24,858 | 22,311 | 2,459 | 0.35% | 9.93% |
| | Oct | 22,356 | 19,781 | 2,373 | 0.90% | 10.71% |
| | Nov | 22,697 | 20,252 | 2,299 | 0.64% | 10.19% |
| | Dec | 22,420 | 20,095 | 2,200 | 0.56% | 9.87% |

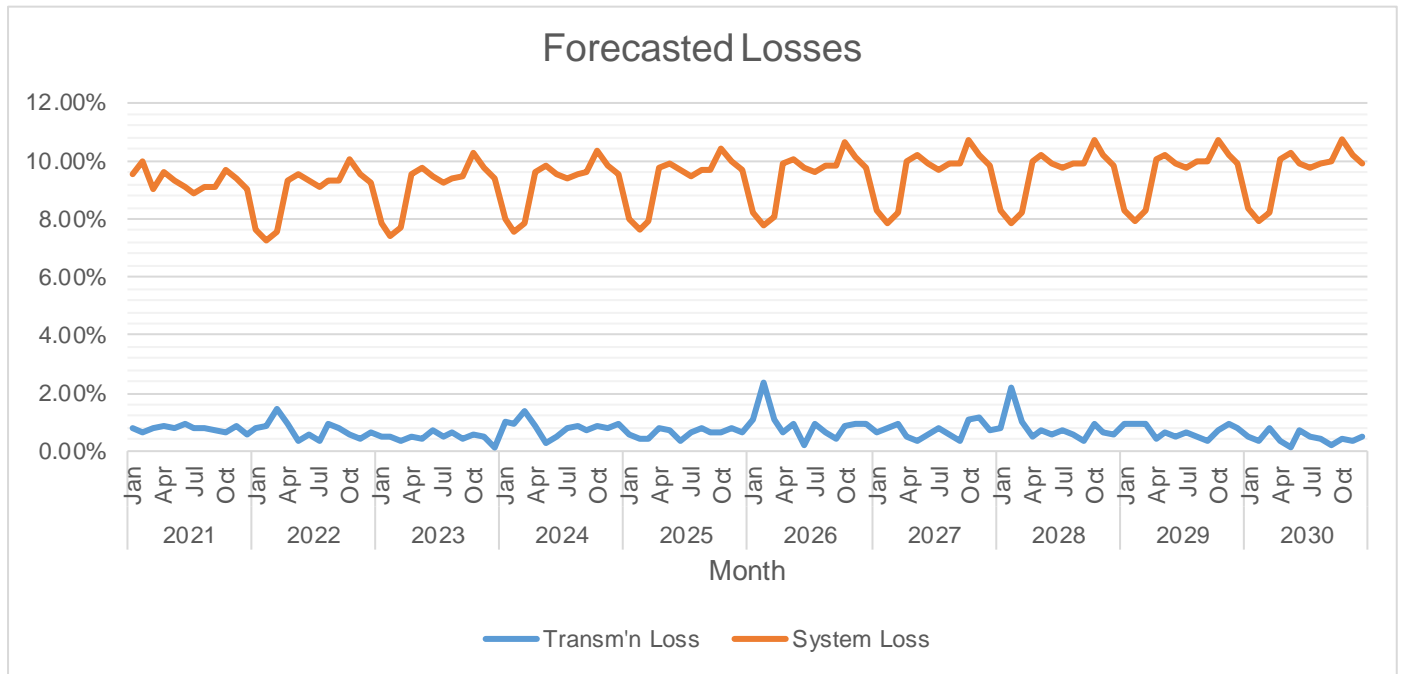
| | | MWh Offtake | MWh Output | MWh System Loss | Transm'n Loss | System Loss |
|------|-----|-------------|------------|-----------------|---------------|-------------|
| 2029 | Jan | 24,075 | 21,857 | 1,986 | 0.96% | 8.33% |
| | Feb | 23,771 | 21,686 | 1,867 | 0.92% | 7.93% |
| | Mar | 22,254 | 20,226 | 1,823 | 0.92% | 8.27% |
| | Apr | 22,181 | 19,858 | 2,223 | 0.45% | 10.07% |
| | May | 24,098 | 21,488 | 2,450 | 0.67% | 10.23% |
| | Jun | 25,885 | 23,203 | 2,559 | 0.47% | 9.93% |
| | Jul | 24,497 | 21,967 | 2,373 | 0.64% | 9.75% |
| | Aug | 25,051 | 22,447 | 2,482 | 0.48% | 9.95% |
| | Sep | 26,360 | 23,659 | 2,616 | 0.32% | 9.95% |
| | Oct | 23,670 | 20,975 | 2,522 | 0.73% | 10.73% |
| | Nov | 24,150 | 21,475 | 2,450 | 0.93% | 10.24% |
| | Dec | 23,845 | 21,309 | 2,346 | 0.79% | 9.92% |
| 2030 | Jan | 25,456 | 23,207 | 2,114 | 0.53% | 8.35% |
| | Feb | 25,112 | 23,026 | 1,989 | 0.39% | 7.95% |
| | Mar | 23,602 | 21,476 | 1,931 | 0.83% | 8.25% |
| | Apr | 23,525 | 21,082 | 2,360 | 0.35% | 10.07% |
| | May | 25,446 | 22,811 | 2,603 | 0.13% | 10.24% |
| | Jun | 27,547 | 24,630 | 2,716 | 0.73% | 9.93% |
| | Jul | 25,969 | 23,322 | 2,526 | 0.46% | 9.77% |
| | Aug | 26,568 | 23,832 | 2,631 | 0.40% | 9.94% |
| | Sep | 27,957 | 25,118 | 2,779 | 0.21% | 9.96% |
| | Oct | 25,067 | 22,272 | 2,682 | 0.45% | 10.75% |
| | Nov | 25,489 | 22,801 | 2,600 | 0.34% | 10.23% |
| | Dec | 25,252 | 22,626 | 2,494 | 0.52% | 9.93% |

MWh Offtake was forecasted using trend analysis. The assumed load factor is 65%.

System Loss was calculated through a Load Flow Study conducted by Technical Services Department using DSAS software. Based on the same study, the Distribution System can adequately convey electricity to customers.



MWh Output was expected to grow at a rate of 5.41% annually.



Transmission Loss is expected to range from 0.12% to 3.70% while System Loss is expected to range from 7.26% to 10.76%.

Power Supply

| Case No. | Type | GenCo | Minimum MW | Minimum MWh/yr | PSA Start | PSA End |
|----------|------|-------------------------------|------------|----------------|------------|------------|
| 2015-074 | Base | FDC Misamis Power Corporation | 5.20 | 45,552 | 10/14/2016 | 10/13/2031 |
| 2013-124 | Base | Therma South, Inc. | 2.00 | 17,552 | 9/18/2015 | 9/17/2040 |

The **PSA with FDC Misamis Power Corporation filed with ERC under Case No. 2015-074RC** was procured through negotiation. It was selected to provide for base requirements due to energy crisis at that time. Historically, the utilization of the PSA is 57%. Outages of the plant led to unserved energy of around 2,808 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 7.5375 P/kWh to 9.0694 P/KWh in the same period.

The **PSA with Thema South Inc. (TSI) filed with ERC under Case No. 2013-124RC** was procured through negotiation. It was selected to provide for base requirements due to energy crisis at that time. Historically, the utilization of the PSA is 35%. Outages of the plant led to unserved energy of around 13,357.50 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 8.2727 P/kWh to 9.2499 P/KWh in the same period.

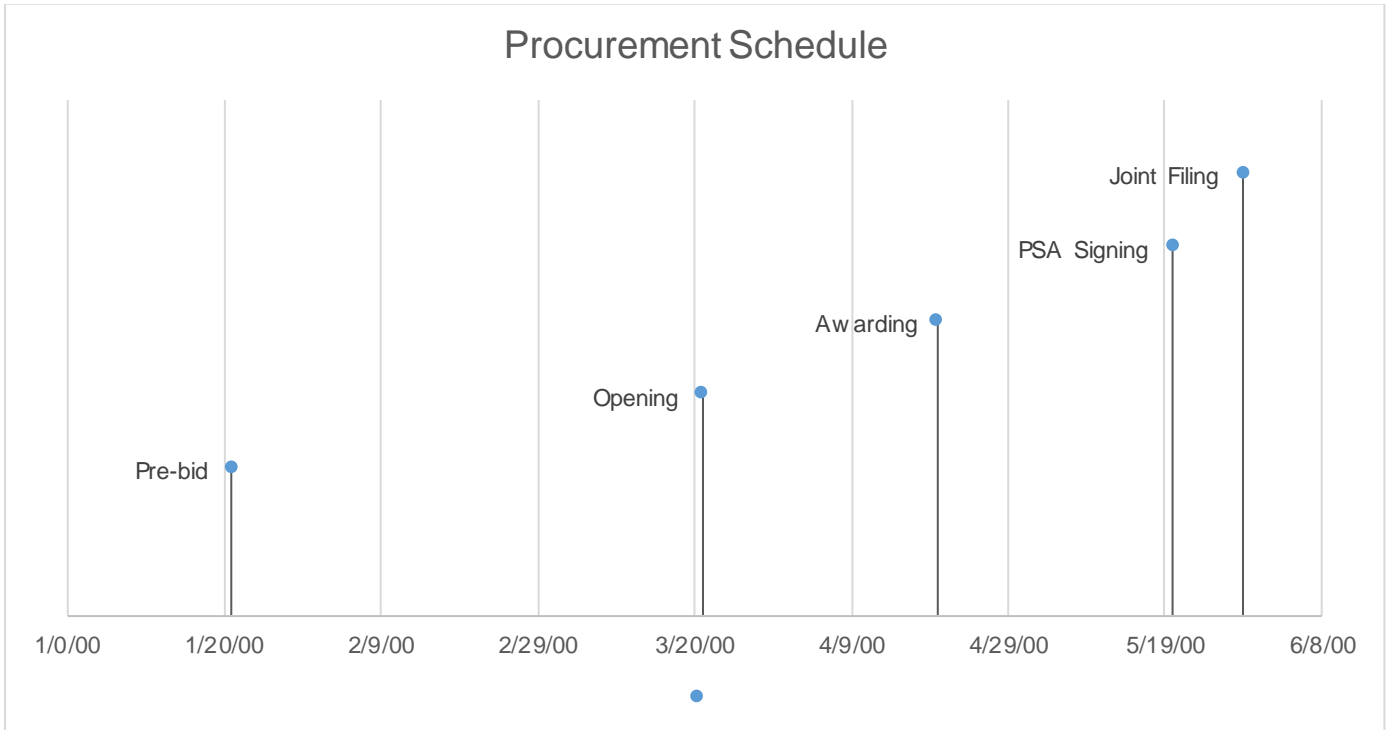
| Case No. | Type | GenCo | Minimum MW | Minimum MWh/yr | PSA Start | PSA End |
|------------|------|--|------------|----------------|------------|------------|
| 2014-033 | Base | Nickel Asia Corporation | 0.00 | 0 | 6/26/2018 | 6/25/2033 |
| 2014-011 | Base | GN Power Kauswagan Ltd. | 18.00 | 156,366 | 12/26/2019 | 12/25/2039 |
| PSALM CORP | Base | Power Sector Assets and Liabilities Management Corporation | 2.78 | 30,715 | 12/26/2017 | 7/28/2021 |

The **PSA with Nickel Asia Corporation filed with ERC under Case No 2014-033RC** was procured through negotiation. It was selected to provide for peaking requirements energy crisis at that time. Historically, the utilization of the PSA is 0%. Outages of the plant led to unserved energy of around 0 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 1,510.2879 P/kWh to 15 million in the same period. Currently, NAC secured Provisional Authority from ERC and the PSA is still pending for approval. As per contract, there is no minimum MW and MWhr requirement but for the reason of technical efficiency of the plant units, it is recommended for each unit to run at 30% of the maximum MW capacity per unit-this is approximately equivalent to 1.0944 MW.

The **PSA with GN Power Kauswagan Ltd. filed with ERC under Case No. 2014-011RC** was procured through negotiation. It was selected to provide for base requirements due to energy crisis at that time. Historically, the utilization of the PSA is 77%. Outages of the plant led to unserved energy of around 0 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 5.3659 P/kWh to 7.6583 P/KWh in the same period. Currently, GN Power Kauswagan Ltd. secured Provisional Authority from ERC and the PSA is still pending for approval.

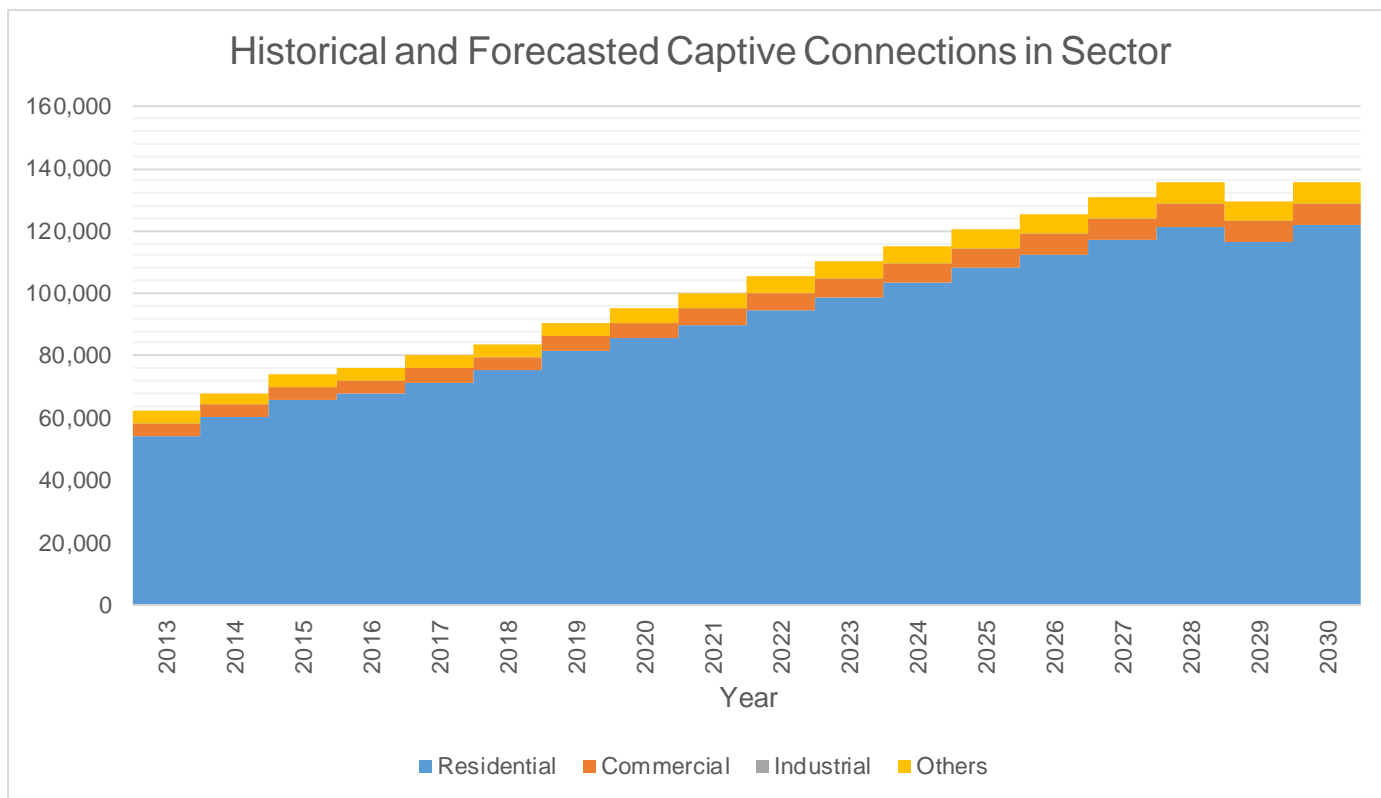
| |
|----------------|
| Type |
| Minimum MW |
| Minimum MWh/yr |
| PSA Start |
| PSA End |
| Publication |

- Pre-bid
- Opening
- Awarding
- PSA Signing
- Joint Filing



SURNEO's has no plan for Competitive Selection Process considering that the supply is more than enough to cater the expected load until 2030.

Captive Customer Connections



The number of total captive connections composed of Residential, Commercial, Industrial, Public Building and Streetlights is expected to grow at a rate of 4.45% annually. Said customer class is expected to account for 100% of the total consumption.