

Power Supply Procurement Plan 2021

ILOCOS SUR ELECTRIC COOPERATIVE, INC.

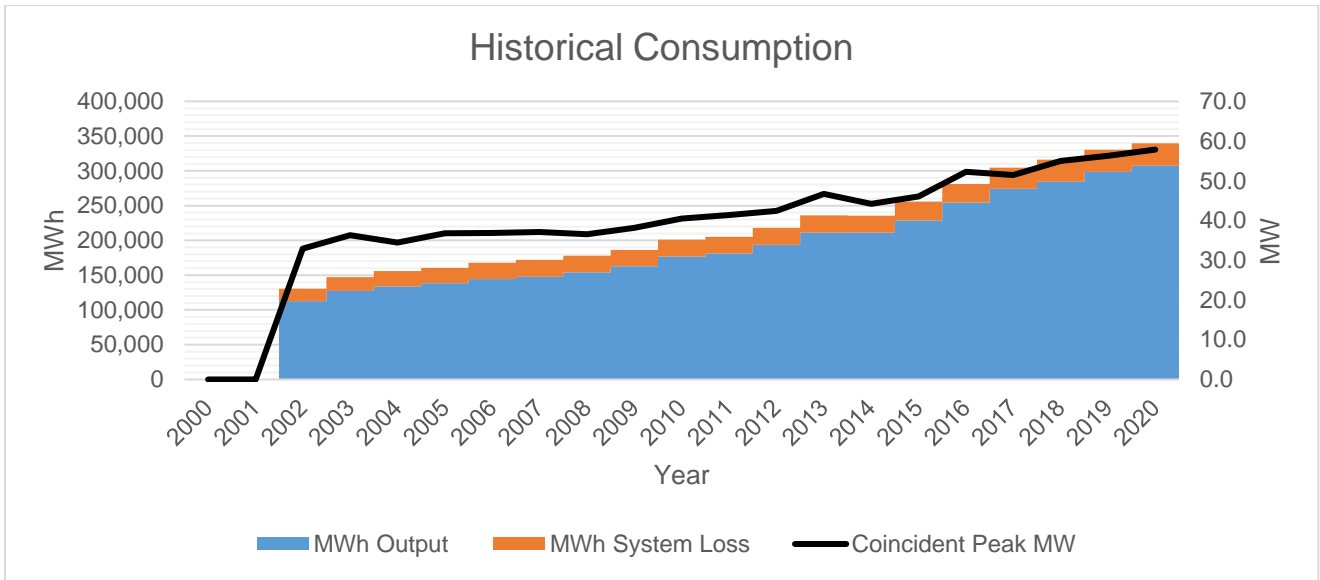
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	0.00	0	0	0	0	0	NO DATA	NO DATA	NO DATA	NO DATA
2001	0.00	0	0	0	0	0	NO DATA	NO DATA	NO DATA	NO DATA
2002	32.89	130,791	0	130,791	112,731	17,947	45%	-0.09%	0.00%	13.72%
2003	36.28	147,299	0	147,299	127,480	19,692	46%	-0.09%	0.00%	13.37%
2004	34.47	155,754	0	155,754	133,933	21,775	52%	-0.03%	0.00%	13.98%
2005	36.76	160,625	0	160,625	138,253	22,366	50%	0.00%	0.00%	13.92%
2006	36.89	168,134	0	168,134	144,301	23,756	52%	-0.05%	0.00%	14.13%
2007	37.08	172,202	0	172,201	147,698	24,167	53%	-0.20%	0.00%	14.03%
2008	36.56	178,371	0	178,371	153,985	23,928	56%	-0.26%	0.00%	13.41%
2009	38.13	186,405	0	186,405	162,726	23,353	56%	-0.17%	0.00%	12.53%
2010	40.49	201,295	1,746	201,295	176,455	24,779	57%	-0.03%	0.00%	12.31%
2011	41.39	204,638	19,370	204,801	181,175	23,816	56%	0.09%	-0.08%	11.63%
2012	42.40	217,414	28,072	217,655	193,457	24,590	59%	0.18%	-0.11%	11.30%
2013	46.70	235,520	137,058	235,709	211,326	24,857	58%	0.20%	-0.08%	10.55%
2014	44.19	235,288	65,899	235,288	211,048	24,685	61%	0.19%	0.00%	10.49%
2015	46.08	255,239	67,796	255,239	228,825	26,824	63%	0.16%	0.00%	10.51%
2016	52.27	287,054	67,447	287,054	254,349	26,692	63%	-2.09%	0.00%	9.30%
2017	51.48	305,204	61,512	304,286	274,451	30,108	67%	0.09%	0.30%	9.89%
2018	54.99	316,631	70,670	315,412	284,463	31,488	65%	0.17%	0.38%	9.98%
2019	56.28	331,355	62,903	330,028	298,766	31,792	67%	0.16%	0.40%	9.63%
2020	57.86	340,289	41,620	338,859	307,284	32,275	67%	0.21%	0.42%	9.52%

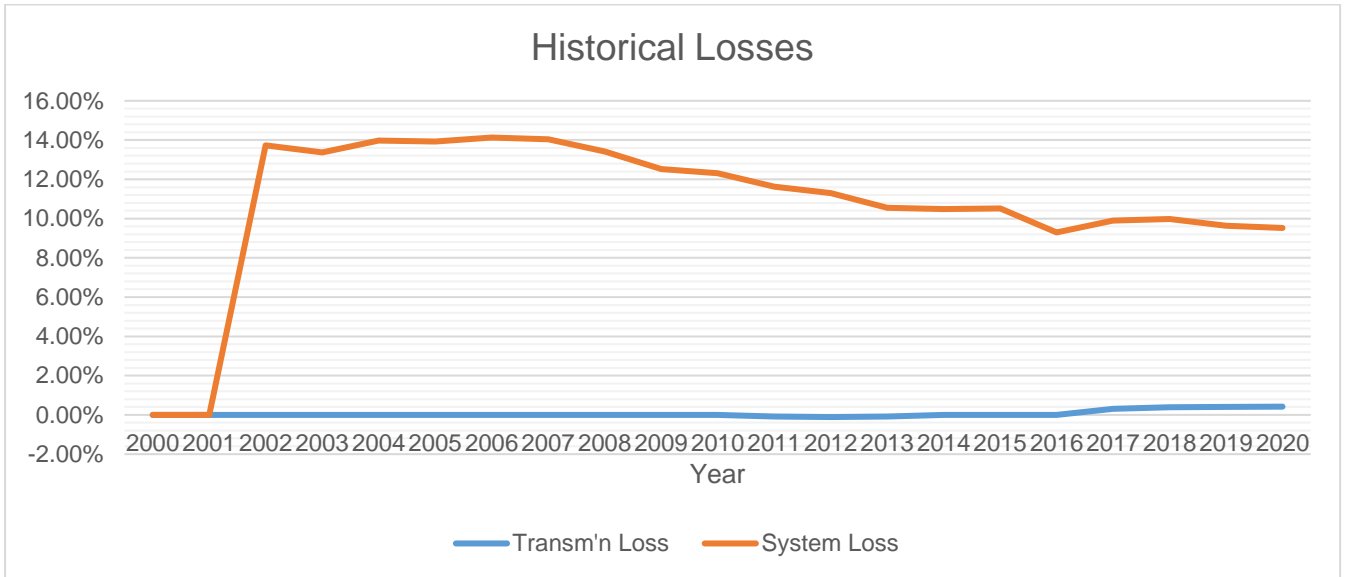
Historically, the effect of COVID 19 pandemic started during the declaration by the president of Enhance Community Quarantine (ECQ) from March 17 to April 30 followed by General Community Quarantine. Commercial, industrial and public buildings were mostly affected except residential type of customer.

Despite the threat of COVID 19, Peak Demand increased from 56.28 MW in 2019 to 57.86 MW in 2020 at a rate of 2.81%. The peak demand occurred for the month of June upon implementation of Modified General Community Quarantine. Likewise, MWh Offtake slightly increased from 331,355 MWh in 2019 to 340,289 MWh in 2020 at a rate of 2.70%. The growth rate of 2019 is higher compared to 2020 from 4.65% to 2.70% due to downward trend of April and May during implementation of Enhance Community Quarantine (ECQ) and General Community Quarantine (GCQ). Within the same period, Load Factor ranged from 45% to 67%.

Within the same period, Load Factor ranged from 45% to 67%. There was an abrupt change in consumption especially industrial, commercial and public buildings on 2020 due to imposition of lockdown in the province because of COVID 19.

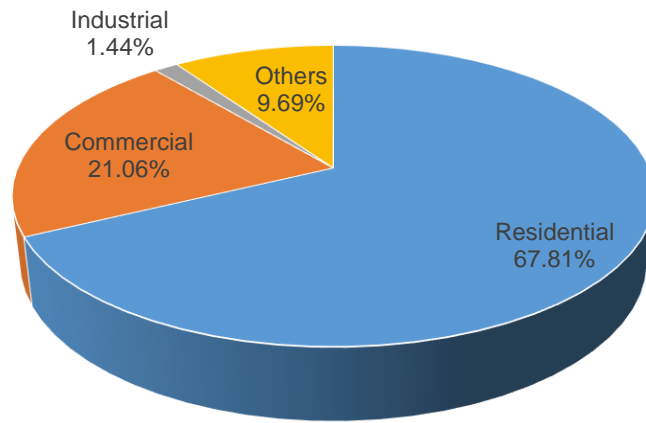


MWh Output increased from year 2019 to year 2020 at a rate of 2.85%, while MWh System Loss decreased at a rate of 1.52% within the same period.



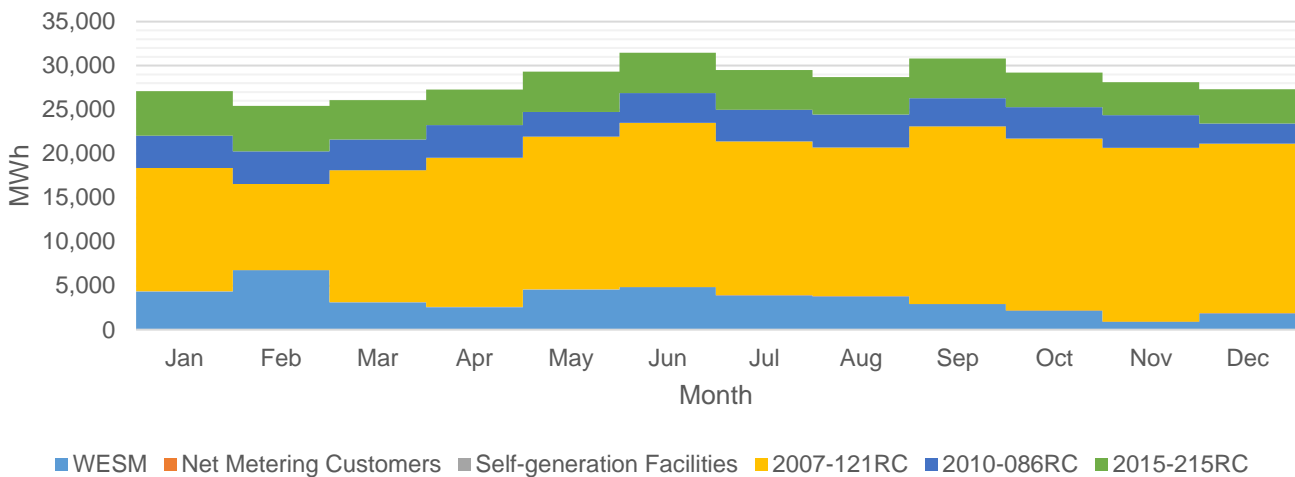
Historically, Transmission Loss ranged from 0.40% to 0.42% while System Loss ranged from 9.99% to 9.63%. Transmission Loss peaked at 0.42% on year 2020 while System Loss peaked at 14.13% on year 2006.

Previous Year's Shares of Energy Sales

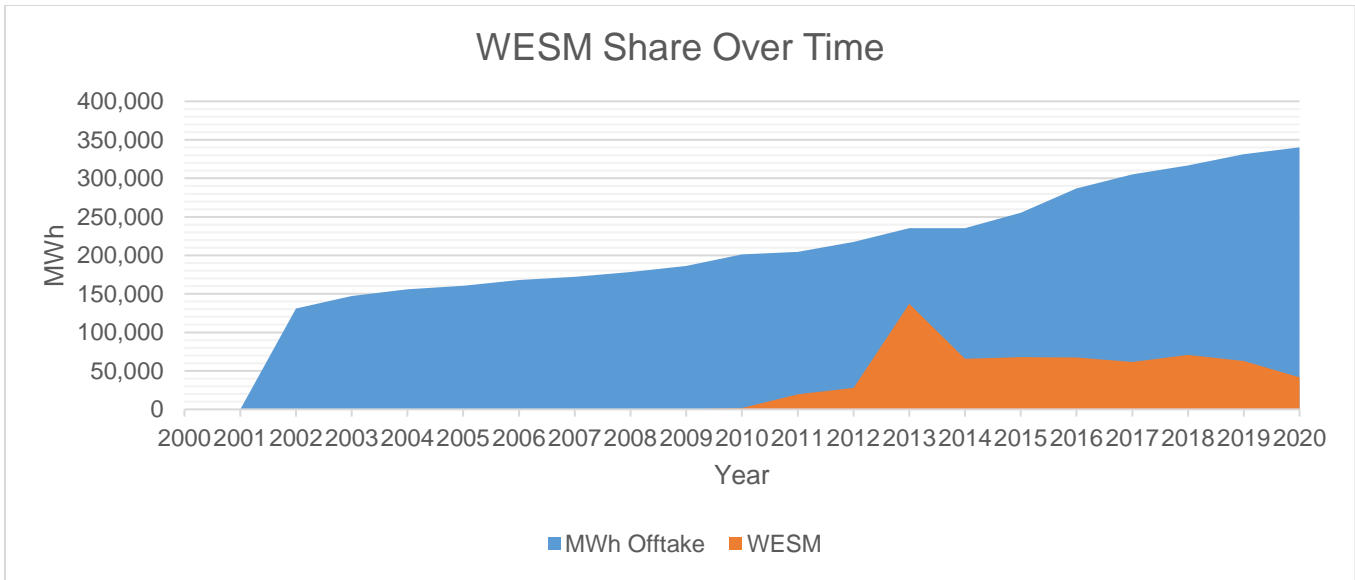


Residential customers account for the bulk of energy sales at 67.81% due to high energy consumption especially during lockdown. In contrast, Industrial customers accounted for only 1.44% of energy sales because operation of industrial plant was stopped because of lockdown.

MWh Offtake for Last Historical Year

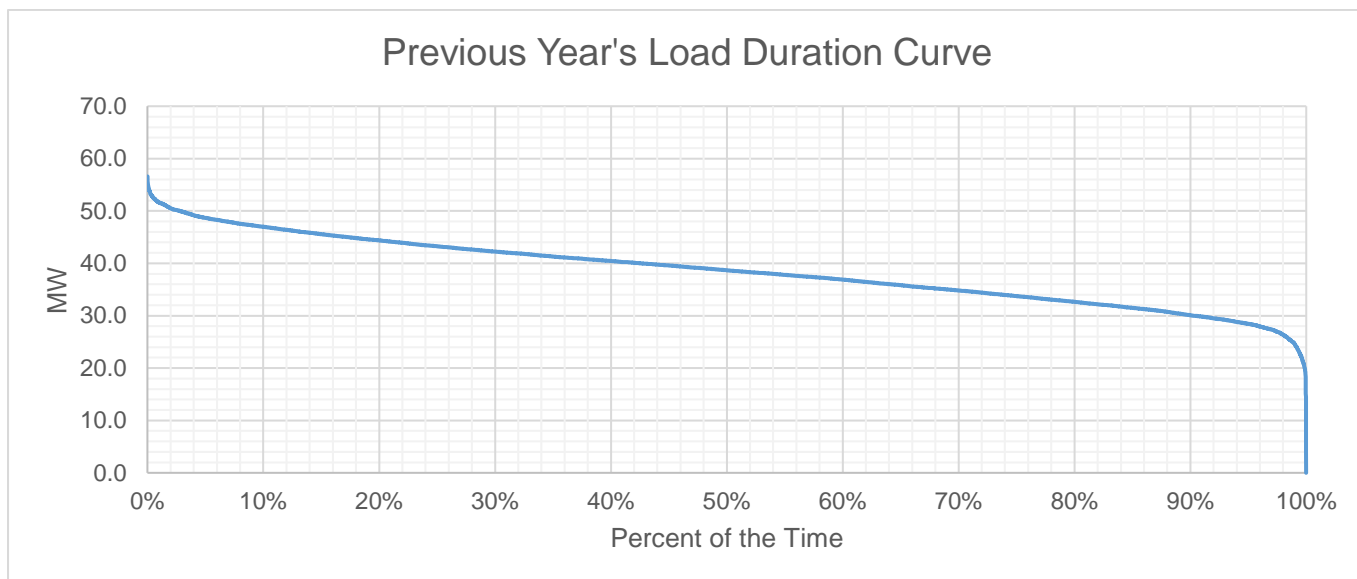


For 2020, the total Offtake for the last historical year is lower than the quantity stipulated in the PSA. The PSA with GN Power Mariveles Coal Plant Ltd accounts for the bulk of MWh Offtake.

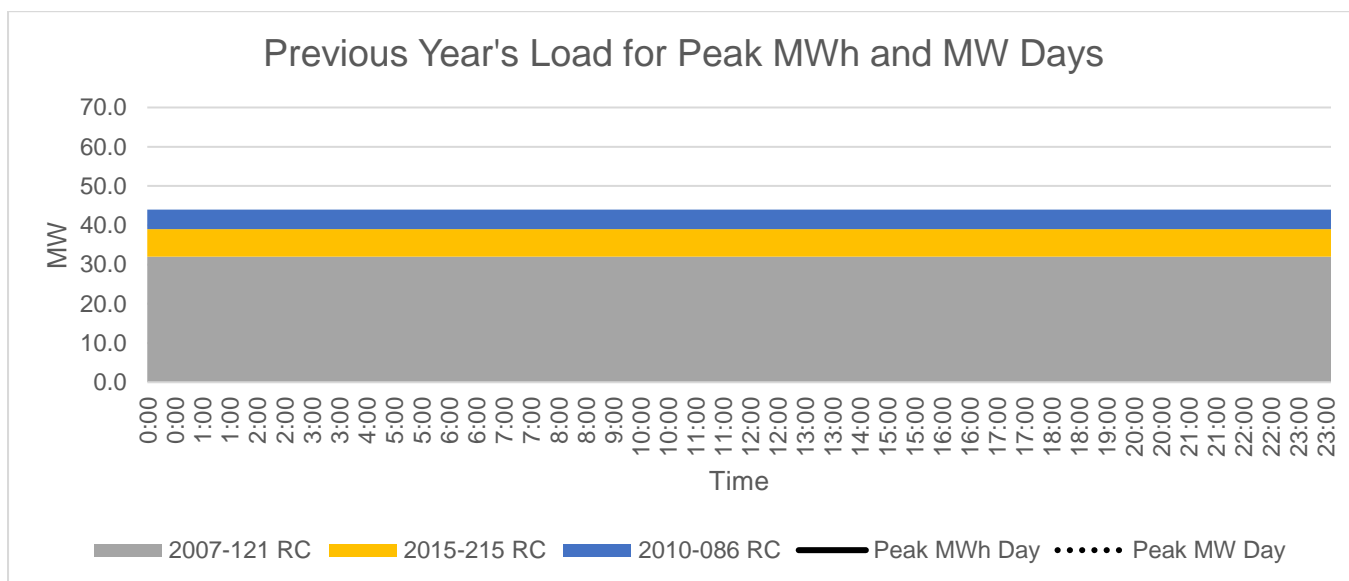


WESM Offtake decreased from 62,903 MWh in 2019 to 41,620 MWh in 2020 at a rate of 33.83% due to earthquake in 2019 that forced our Three (3) supplier to have an emergency shutdown and additional contracted capacity of 7 MW from MPPCL. The share of WESM in the total Offtake ranged from 18.98% to 12.23%.

Previous Year's Load Profile

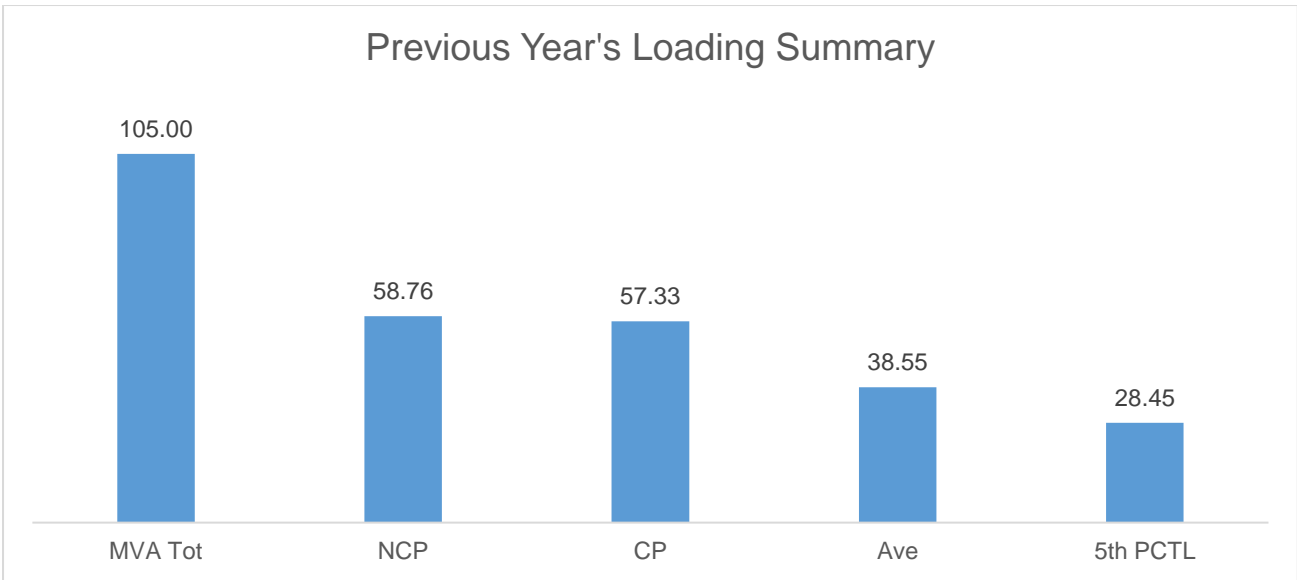


Based on the Load Duration Curve, the minimum load is 0 MW due to simultaneous shutdown of Bauang-Bacnotan and Bauang-Bakun 230kV line and the maximum load is 57.326 MW for the last historical year.



Peak MW occurred on 4th day of June due to relax quarantine protocol compared from March to April quarantine protocol. Also, Peak daily MWh occurred on June. As shown in the Load Curves, the available supply is lower than the Peak Demand.

Previous Year's Loading Summary



The Non-coincident Peak Demand is 58.76 MW, which is around 55.96% of the total substation capacity of 105 MVA at a power factor of 99.66%. The load factor or the ratio between the Average Load of 38.65 MW and the Non-coincident Peak Demand is 65.78% of. A safe estimate of the true minimum load is the fifth percentile load of 28.45 MW which is 48.42% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
VIGAN S/S	30	18.614
CANDON S/S	25	15.062
STO. DOMINGO S/S	20	12.739
NARVACAN S/S	20	9.095
SANTIAGO S/S	10	3.247

All substations are loaded below 70%.

Forecasted Consumption Data

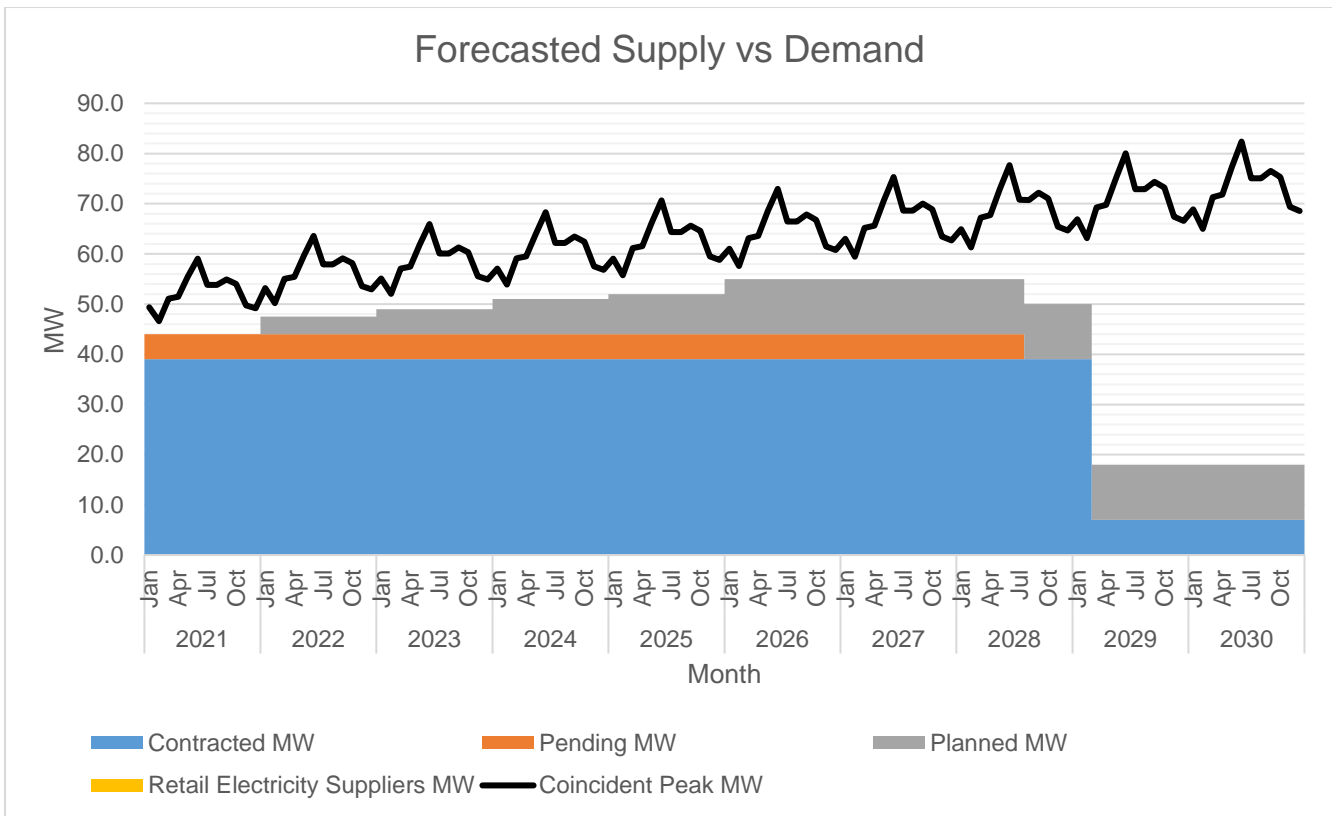
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2021	Jan	49.38	39.00	5.00	0.000		79%	89%	-5.38
	Feb	46.60	39.00	5.00	0.000		84%	94%	-2.60
	Mar	51.11	39.00	5.00	0.000		76%	86%	-7.11
	Apr	51.47	39.00	5.00	0.000		76%	85%	-7.47
	May	55.46	39.00	5.00	0.000		70%	79%	-11.46
	Jun	59.06	39.00	5.00	0.000		66%	74%	-15.06
	Jul	53.80	39.00	5.00	0.000		72%	82%	-9.80
	Aug	53.80	39.00	5.00	0.000		72%	82%	-9.80
	Sep	54.89	39.00	5.00	0.000		71%	80%	-10.89
	Oct	54.02	39.00	5.00	0.000		72%	81%	-10.02
	Nov	49.73	39.00	5.00	0.000		78%	88%	-5.73
	Dec	49.16	39.00	5.00	0.000		79%	90%	-5.16
2022	Jan	53.17	39.00	5.00	3.500		73%	89%	-5.67
	Feb	50.18	39.00	5.00	3.500		78%	95%	-2.68
	Mar	55.04	39.00	5.00	3.500		71%	86%	-7.54
	Apr	55.42	39.00	5.00	3.500		70%	86%	-7.92
	May	59.71	39.00	5.00	3.500		65%	80%	-12.21
	Jun	63.59	39.00	5.00	3.500		61%	75%	-16.09
	Jul	57.93	39.00	5.00	3.500		67%	82%	-10.43
	Aug	57.93	39.00	5.00	3.500		67%	82%	-10.43
	Sep	59.10	39.00	5.00	3.500		66%	80%	-11.60
	Oct	58.17	39.00	5.00	3.500		67%	82%	-10.67
	Nov	53.55	39.00	5.00	3.500		73%	89%	-6.05
	Dec	52.93	39.00	5.00	3.500		74%	90%	-5.43
2023	Jan	55.13	39.00	5.00	5.000		71%	89%	-6.13
	Feb	52.03	39.00	5.00	5.000		75%	94%	-3.03
	Mar	57.07	39.00	5.00	5.000		68%	86%	-8.07
	Apr	57.47	39.00	5.00	5.000		68%	85%	-8.47
	May	61.92	39.00	5.00	5.000		63%	79%	-12.92

	Jun	65.94	39.00	5.00	5.000		59%	74%	-16.94
	Jul	60.07	39.00	5.00	5.000		65%	82%	-11.07
	Aug	60.06	39.00	5.00	5.000		65%	82%	-11.06
	Sep	61.28	39.00	5.00	5.000		64%	80%	-12.28
	Oct	60.31	39.00	5.00	5.000		65%	81%	-11.31
	Nov	55.53	39.00	5.00	5.000		70%	88%	-6.53
	Dec	54.89	39.00	5.00	5.000		71%	89%	-5.89
2024	Jan	57.09	39.00	5.00	7.000		68%	89%	-6.09
	Feb	53.88	39.00	5.00	7.000		72%	95%	-2.88
	Mar	59.10	39.00	5.00	7.000		66%	86%	-8.10
	Apr	59.52	39.00	5.00	7.000		66%	86%	-8.52
	May	64.12	39.00	5.00	7.000		61%	80%	-13.12
	Jun	68.29	39.00	5.00	7.000		57%	75%	-17.29
	Jul	62.21	39.00	5.00	7.000		63%	82%	-11.21
	Aug	62.20	39.00	5.00	7.000		63%	82%	-11.20
	Sep	63.47	39.00	5.00	7.000		61%	80%	-12.47
	Oct	62.46	39.00	5.00	7.000		62%	82%	-11.46
	Nov	57.50	39.00	5.00	7.000		68%	89%	-6.50
	Dec	56.84	39.00	5.00	7.000		69%	90%	-5.84
2025	Jan	59.06	39.00	5.00	8.000		66%	88%	-7.06
	Feb	55.74	39.00	5.00	8.000		70%	93%	-3.74
	Mar	61.13	39.00	5.00	8.000		64%	85%	-9.13
	Apr	61.56	39.00	5.00	8.000		63%	84%	-9.56
	May	66.33	39.00	5.00	8.000		59%	78%	-14.33
	Jun	70.64	39.00	5.00	8.000		55%	74%	-18.64
	Jul	64.34	39.00	5.00	8.000		61%	81%	-12.34
	Aug	64.34	39.00	5.00	8.000		61%	81%	-12.34
	Sep	65.65	39.00	5.00	8.000		59%	79%	-13.65
	Oct	64.61	39.00	5.00	8.000		60%	80%	-12.61
	Nov	59.48	39.00	5.00	8.000		66%	87%	-7.48
	Dec	58.79	39.00	5.00	8.000		66%	88%	-6.79
2026	Jan	61.02	39.00	5.00	11.000		64%	90%	-6.02
	Feb	57.59	39.00	5.00	11.000		68%	96%	-2.59
	Mar	63.16	39.00	5.00	11.000		62%	87%	-8.16
	Apr	63.61	39.00	5.00	11.000		61%	86%	-8.61

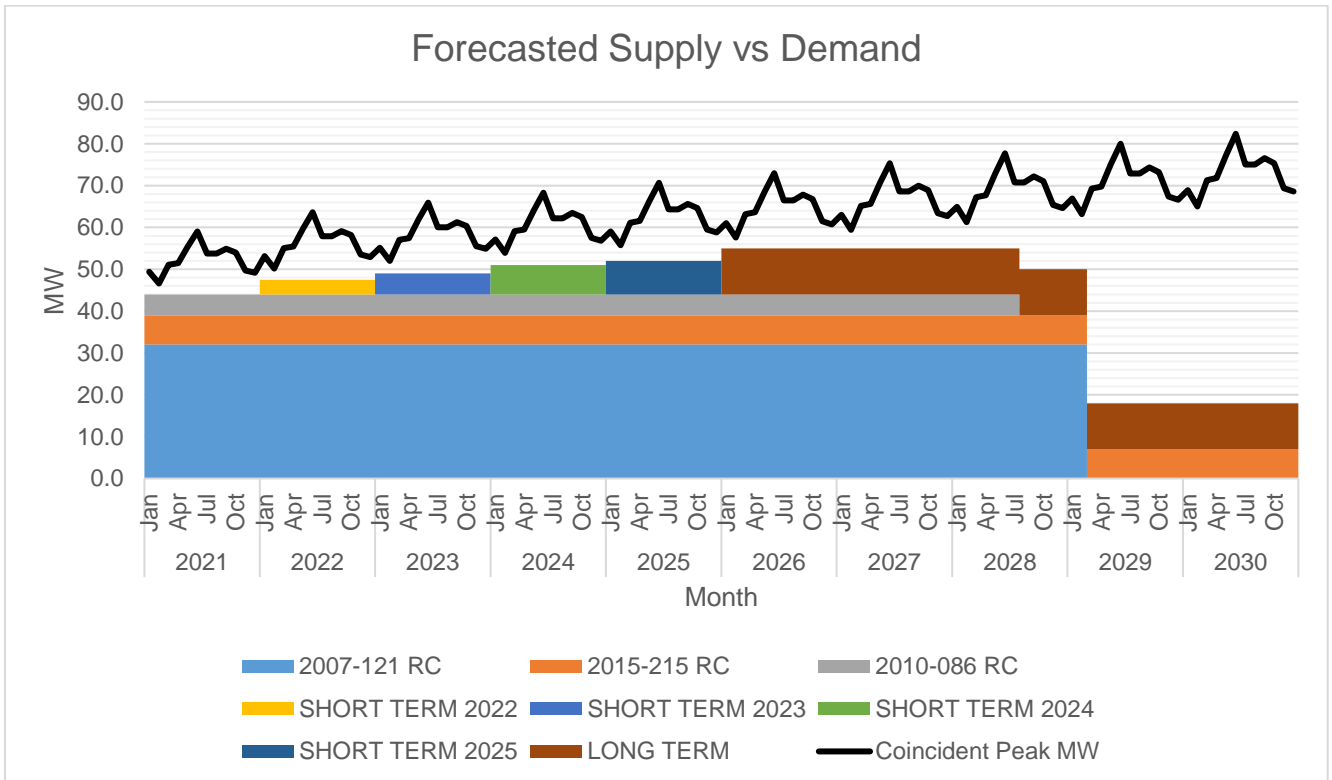
	May	68.53	39.00	5.00	11.000		57%	80%	-13.53
	Jun	72.99	39.00	5.00	11.000		53%	75%	-17.99
	Jul	66.48	39.00	5.00	11.000		59%	83%	-11.48
	Aug	66.48	39.00	5.00	11.000		59%	83%	-11.48
	Sep	67.83	39.00	5.00	11.000		57%	81%	-12.83
	Oct	66.76	39.00	5.00	11.000		58%	82%	-11.76
	Nov	61.46	39.00	5.00	11.000		63%	89%	-6.46
	Dec	60.75	39.00	5.00	11.000		64%	91%	-5.75
2027	Jan	62.98	39.00	5.00	11.000		62%	87%	-7.98
	Feb	59.44	39.00	5.00	11.000		66%	93%	-4.44
	Mar	65.20	39.00	5.00	11.000		60%	84%	-10.20
	Apr	65.65	39.00	5.00	11.000		59%	84%	-10.65
	May	70.74	39.00	5.00	11.000		55%	78%	-15.74
	Jun	75.33	39.00	5.00	11.000		52%	73%	-20.33
	Jul	68.62	39.00	5.00	11.000		57%	80%	-13.62
	Aug	68.62	39.00	5.00	11.000		57%	80%	-13.62
	Sep	70.01	39.00	5.00	11.000		56%	79%	-15.01
	Oct	68.91	39.00	5.00	11.000		57%	80%	-13.91
	Nov	63.43	39.00	5.00	11.000		61%	87%	-8.43
	Dec	62.70	39.00	5.00	11.000		62%	88%	-7.70
2028	Jan	64.95	39.00	5.00	11.000		60%	85%	-9.95
	Feb	61.29	39.00	5.00	11.000		64%	90%	-6.29
	Mar	67.23	39.00	5.00	11.000		58%	82%	-12.23
	Apr	67.70	39.00	5.00	11.000		58%	81%	-12.70
	May	72.94	39.00	5.00	11.000		53%	75%	-17.94
	Jun	77.68	39.00	5.00	11.000		50%	71%	-22.68
	Jul	70.76	39.00	5.00	11.000		55%	78%	-15.76
	Aug	70.76	39.00	0.00	11.000		55%	71%	-20.76
	Sep	72.19	39.00	0.00	11.000		54%	69%	-22.19
	Oct	71.05	39.00	0.00	11.000		55%	70%	-21.05
	Nov	65.41	39.00	0.00	11.000		60%	76%	-15.41
	Dec	64.66	39.00	0.00	11.000		60%	77%	-14.66
2029	Jan	66.91	39.00	0.00	11.000		58%	75%	-16.91
	Feb	63.15	39.00	0.00	11.000		62%	79%	-13.15
	Mar	69.26	7.00	0.00	11.000		10%	26%	-51.26

	Apr	69.75	7.00	0.00	11.000		10%	26%	-51.75
	May	75.15	7.00	0.00	11.000		9%	24%	-57.15
	Jun	80.03	7.00	0.00	11.000		9%	22%	-62.03
	Jul	72.90	7.00	0.00	11.000		10%	25%	-54.90
	Aug	72.90	7.00	0.00	11.000		10%	25%	-54.90
	Sep	74.38	7.00	0.00	11.000		9%	24%	-56.38
	Oct	73.20	7.00	0.00	11.000		10%	25%	-55.20
	Nov	67.39	7.00	0.00	11.000		10%	27%	-49.39
	Dec	66.61	7.00	0.00	11.000		11%	27%	-48.61
2030	Jan	68.87	7.00	0.00	11.000		10%	26%	-50.87
	Feb	65.00	7.00	0.00	11.000		11%	28%	-47.00
	Mar	71.29	7.00	0.00	11.000		10%	25%	-53.29
	Apr	71.79	7.00	0.00	11.000		10%	25%	-53.79
	May	77.35	7.00	0.00	11.000		9%	23%	-59.35
	Jun	82.38	7.00	0.00	11.000		8%	22%	-64.38
	Jul	75.04	7.00	0.00	11.000		9%	24%	-57.04
	Aug	75.04	7.00	0.00	11.000		9%	24%	-57.04
	Sep	76.56	7.00	0.00	11.000		9%	24%	-58.56
	Oct	75.35	7.00	0.00	11.000		9%	24%	-57.35
	Nov	69.37	7.00	0.00	11.000		10%	26%	-51.37
	Dec	68.57	7.00	0.00	11.000		10%	26%	-50.57

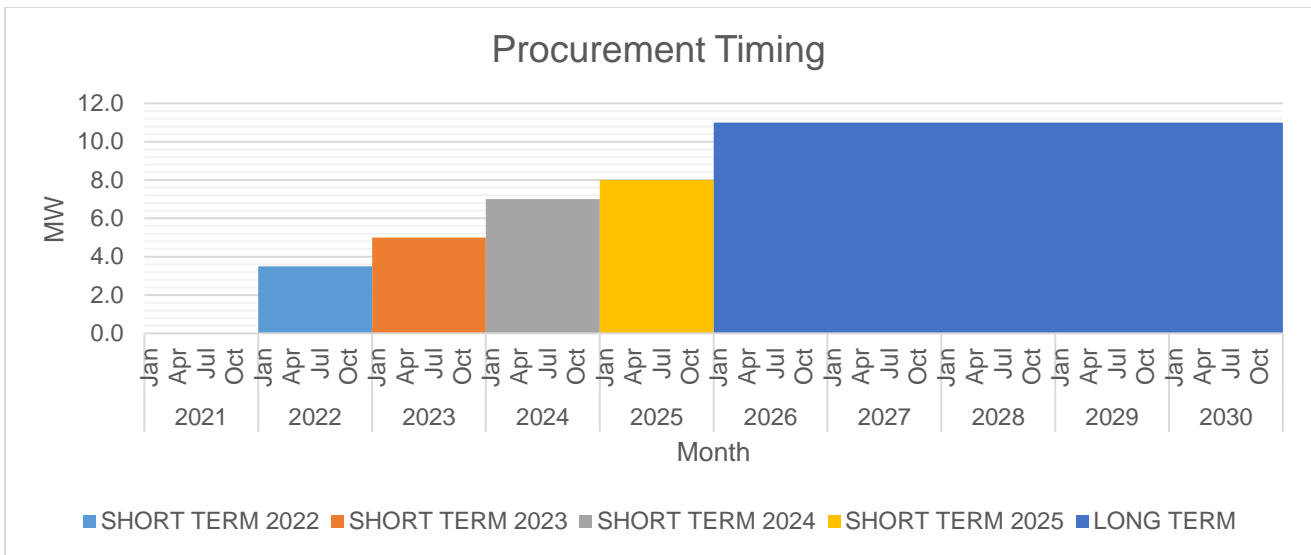
The Peak Demand was forecasted using linear trend($Y=a + bt$) except 2021 considering the effect of COVID and was assumed to occur on the month of June due to hot weather condition and high energy consumption. Monthly Peak Demand is at its lowest on the month of February due to cold weather condition. In general, Peak Demand is expected to grow at a rate of 3.77% annually.



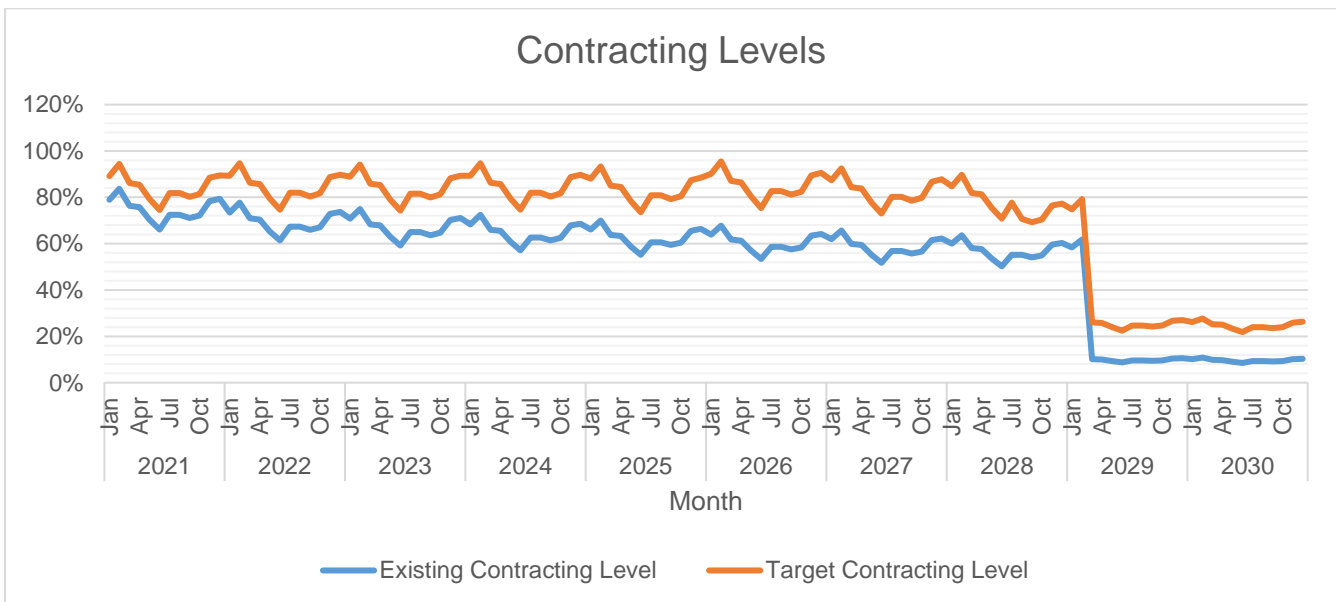
The available supply is generally below the Peak Demand. This is because Peak load will be purchased in the WESM.



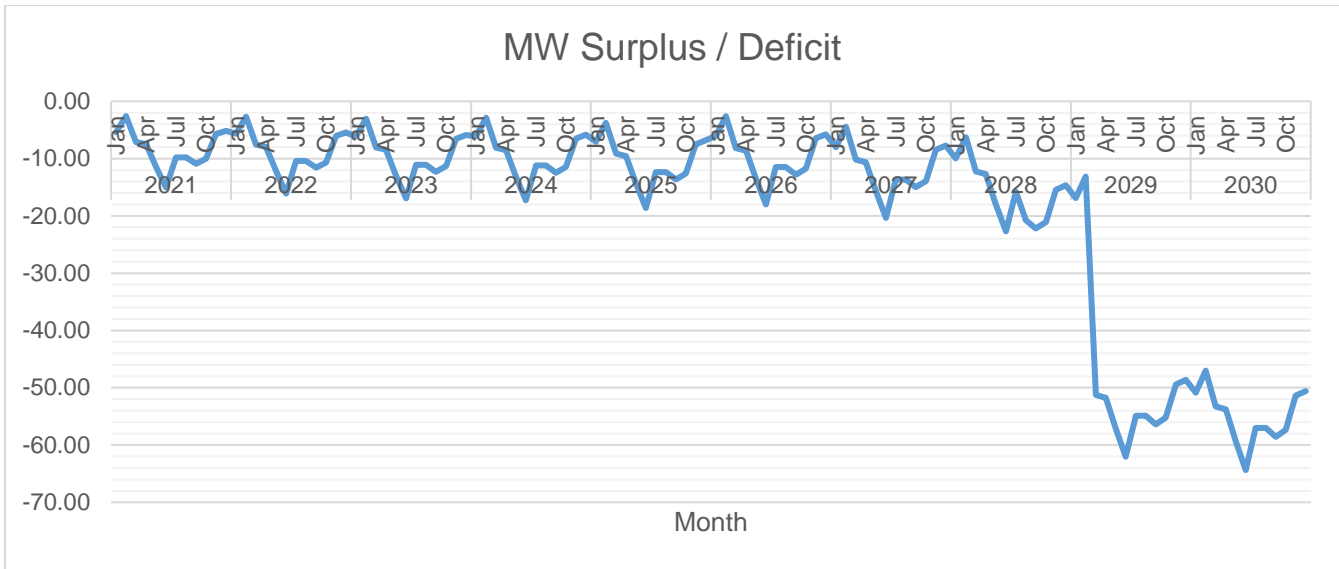
Of the available supply, the largest is 32 MW from GN Power Mariveles Coal Plant Ltd. This is followed by 7 MW from Masinloc Power Partners Company, Ltd. Lastly, 5 MW for SMC Consolidated Power Corporation.



The first wave of supply procurement will be for 3.5 MW planned to be available by the month of 2022. This will be followed by 5, 7, 8 MW from 2023 to 2025 respectively. Additional supply procurement for 11 MW planned to be available by the month of 2026.



Currently, there is under-contracting by 15.06 MW. The highest target contracting level is 96% which is expected to occur on February 2026. The lowest target contracting level is 22% which is expected to occur on June 2030.



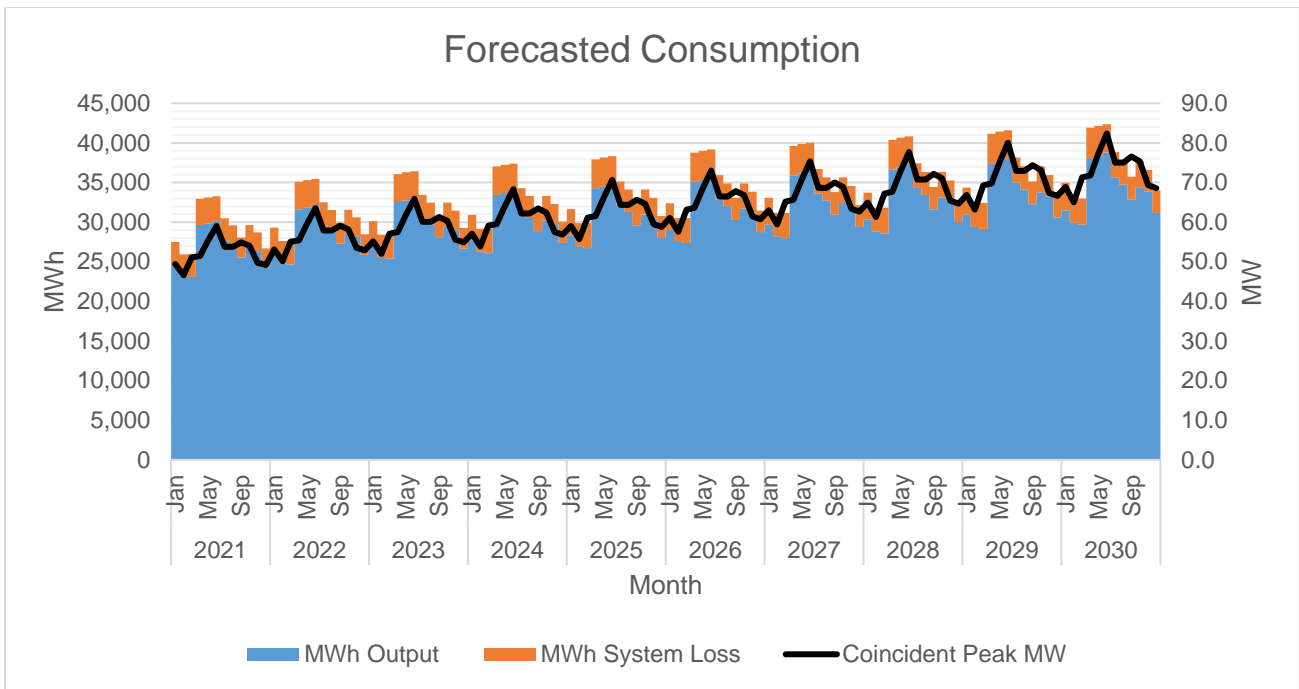
Currently, there is under-contracting by 15.06 MW. The highest deficit is 64.38 MW which is expected to occur on the month of June 2030. The lowest deficit is 2.59 MW which is expected to occur on the month of February 2026.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2021	Jan	27,571	24,510	3,002	0.22%	10.91%
	Feb	25,993	23,311	2,621	0.23%	10.11%
	Mar	26,008	23,106	2,843	0.23%	10.96%
	Apr	33,023	29,624	3,309	0.27%	10.05%
	May	33,237	29,831	3,303	0.31%	9.97%
	Jun	33,354	30,176	3,081	0.29%	9.26%
	Jul	30,560	27,750	2,743	0.22%	9.00%
	Aug	29,673	27,039	2,566	0.23%	8.67%
	Sep	28,120	25,578	2,486	0.20%	8.86%
	Oct	29,692	26,761	2,863	0.23%	9.66%
	Nov	28,769	26,379	2,324	0.23%	8.10%
	Dec	26,761	24,267	2,440	0.21%	9.14%
2022	Jan	29,379	26,150	3,160	0.23%	10.78%
	Feb	27,697	24,870	2,760	0.24%	9.99%
	Mar	27,713	24,652	2,994	0.24%	10.83%
	Apr	35,187	31,606	3,483	0.28%	9.93%
	May	35,415	31,826	3,477	0.32%	9.85%
	Jun	35,541	32,195	3,243	0.29%	9.15%
	Jul	32,563	29,606	2,888	0.21%	8.89%
	Aug	31,617	28,848	2,702	0.22%	8.56%
	Sep	29,963	27,289	2,617	0.19%	8.75%
	Oct	31,638	28,551	3,014	0.23%	9.55%
	Nov	30,655	28,144	2,447	0.21%	8.00%
	Dec	28,516	25,890	2,568	0.20%	9.03%
2023	Jan	30,211	26,923	3,212	0.25%	10.66%
	Feb	28,482	25,606	2,805	0.25%	9.87%
	Mar	28,498	25,381	3,043	0.26%	10.71%
	Apr	36,185	32,541	3,541	0.28%	9.81%
	May	36,419	32,768	3,535	0.32%	9.74%

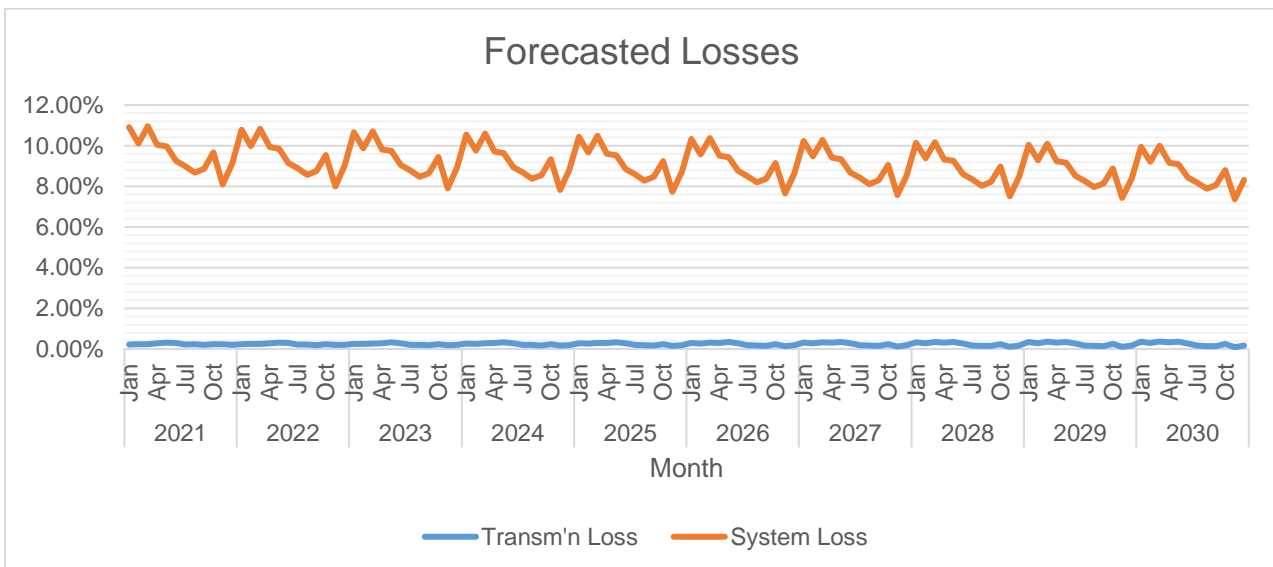
	Jun	36,548	33,147	3,297	0.28%	9.05%
	Jul	33,486	30,482	2,936	0.21%	8.78%
	Aug	32,514	29,701	2,746	0.20%	8.46%
	Sep	30,812	28,096	2,660	0.18%	8.65%
	Oct	32,535	29,396	3,064	0.23%	9.44%
	Nov	31,524	28,976	2,488	0.19%	7.91%
	Dec	29,324	26,656	2,611	0.19%	8.92%
2024	Jan	31,004	27,660	3,260	0.27%	10.54%
	Feb	29,228	26,307	2,847	0.25%	9.77%
	Mar	29,246	26,076	3,088	0.28%	10.59%
	Apr	37,134	33,432	3,594	0.29%	9.71%
	May	37,374	33,665	3,587	0.33%	9.63%
	Jun	37,506	34,055	3,346	0.28%	8.95%
	Jul	34,364	31,316	2,979	0.20%	8.69%
	Aug	33,366	30,514	2,787	0.19%	8.37%
	Sep	31,620	28,865	2,700	0.17%	8.55%
	Oct	33,388	30,200	3,109	0.23%	9.33%
	Nov	32,350	29,770	2,525	0.17%	7.82%
	Dec	30,093	27,386	2,650	0.19%	8.82%
2025	Jan	31,759	28,365	3,304	0.28%	10.43%
	Feb	29,941	26,977	2,886	0.26%	9.66%
	Mar	29,959	26,740	3,130	0.29%	10.48%
	Apr	38,039	34,284	3,642	0.30%	9.60%
	May	38,285	34,523	3,636	0.33%	9.53%
	Jun	38,421	34,922	3,392	0.28%	8.85%
	Jul	35,202	32,114	3,020	0.19%	8.60%
	Aug	34,180	31,292	2,825	0.18%	8.28%
	Sep	32,391	29,600	2,737	0.17%	8.46%
	Oct	34,202	30,970	3,151	0.24%	9.24%
	Nov	33,139	30,528	2,559	0.16%	7.73%
	Dec	30,826	28,083	2,686	0.19%	8.73%
2026	Jan	32,482	29,041	3,345	0.30%	10.33%
	Feb	30,623	27,620	2,921	0.27%	9.57%
	Mar	30,641	27,377	3,169	0.31%	10.37%
	Apr	38,905	35,100	3,687	0.30%	9.51%
	May	39,157	35,345	3,681	0.33%	9.43%
	Jun	39,295	35,754	3,433	0.27%	8.76%
	Jul	36,003	32,879	3,057	0.19%	8.51%
	Aug	34,958	32,037	2,860	0.17%	8.20%
	Sep	33,128	30,305	2,770	0.16%	8.38%
	Oct	34,981	31,707	3,190	0.24%	9.14%
	Nov	33,894	31,255	2,591	0.14%	7.65%
	Dec	31,528	28,752	2,719	0.18%	8.64%
2027	Jan	33,176	29,689	3,383	0.31%	10.23%
	Feb	31,276	28,237	2,954	0.27%	9.47%
	Mar	31,295	27,988	3,205	0.32%	10.27%
	Apr	39,735	35,884	3,729	0.31%	9.41%
	May	39,992	36,134	3,722	0.34%	9.34%
	Jun	40,134	36,553	3,472	0.27%	8.67%
	Jul	36,772	33,614	3,091	0.18%	8.42%
	Aug	35,704	32,753	2,892	0.17%	8.11%

	Sep	33,835	30,982	2,802	0.15%	8.29%
	Oct	35,727	32,416	3,226	0.24%	9.05%
	Nov	34,617	31,954	2,620	0.13%	7.58%
	Dec	32,201	29,394	2,750	0.18%	8.55%
2028	Jan	33,842	30,314	3,418	0.33%	10.13%
	Feb	31,904	28,831	2,985	0.28%	9.38%
	Mar	31,923	28,577	3,238	0.34%	10.18%
	Apr	40,533	36,639	3,767	0.31%	9.32%
	May	40,795	36,894	3,761	0.34%	9.25%
	Jun	40,940	37,322	3,508	0.27%	8.59%
	Jul	37,510	34,321	3,123	0.18%	8.34%
	Aug	36,421	33,442	2,922	0.16%	8.04%
	Sep	34,515	31,634	2,831	0.15%	8.21%
	Oct	36,445	33,098	3,260	0.24%	8.97%
	Nov	35,312	32,626	2,647	0.11%	7.50%
	Dec	32,848	30,013	2,778	0.17%	8.47%
2029	Jan	34,483	30,916	3,450	0.34%	10.04%
	Feb	32,509	29,403	3,013	0.28%	9.30%
	Mar	32,528	29,145	3,269	0.35%	10.08%
	Apr	41,301	37,367	3,803	0.32%	9.24%
	May	41,568	37,627	3,797	0.35%	9.17%
	Jun	41,715	38,063	3,541	0.27%	8.51%
	Jul	38,221	35,002	3,153	0.17%	8.26%
	Aug	37,111	34,106	2,950	0.15%	7.96%
	Sep	35,169	32,262	2,857	0.14%	8.14%
	Oct	37,135	33,755	3,291	0.24%	8.88%
	Nov	35,981	33,274	2,672	0.10%	7.43%
	Dec	33,470	30,609	2,804	0.17%	8.39%
2030	Jan	35,101	31,497	3,480	0.35%	9.95%
	Feb	33,092	29,956	3,040	0.29%	9.21%
	Mar	33,111	29,693	3,297	0.36%	9.99%
	Apr	42,041	38,070	3,837	0.32%	9.16%
	May	42,314	38,335	3,830	0.35%	9.08%
	Jun	42,463	38,779	3,572	0.26%	8.43%
	Jul	38,906	35,661	3,181	0.17%	8.19%
	Aug	37,776	34,747	2,976	0.14%	7.89%
	Sep	35,799	32,869	2,882	0.13%	8.06%
	Oct	37,801	34,390	3,319	0.24%	8.80%
	Nov	36,626	33,900	2,695	0.09%	7.37%
	Dec	34,070	31,185	2,829	0.17%	8.32%

MWh Offtake was forecasted using Quadratic Logarithmic w/o t ($Y = a + b(\log t)^2$).



MWh Output was expected to grow at a rate of 2.83% annually.



Transmission Loss is expected to range from 0.09% to 0.31% while System Loss is expected to range from 10.96% to 7.37%.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2007-121 RC	Base	GN Power Mariveles Coal Plant Ltd.	22.40	168,753	02/26/2014	2/25/2029
2015-215 RC	Base	Masinloc Power Partners Company, Ltd.	4.90	38,690	12/26/2018	12/25/2038

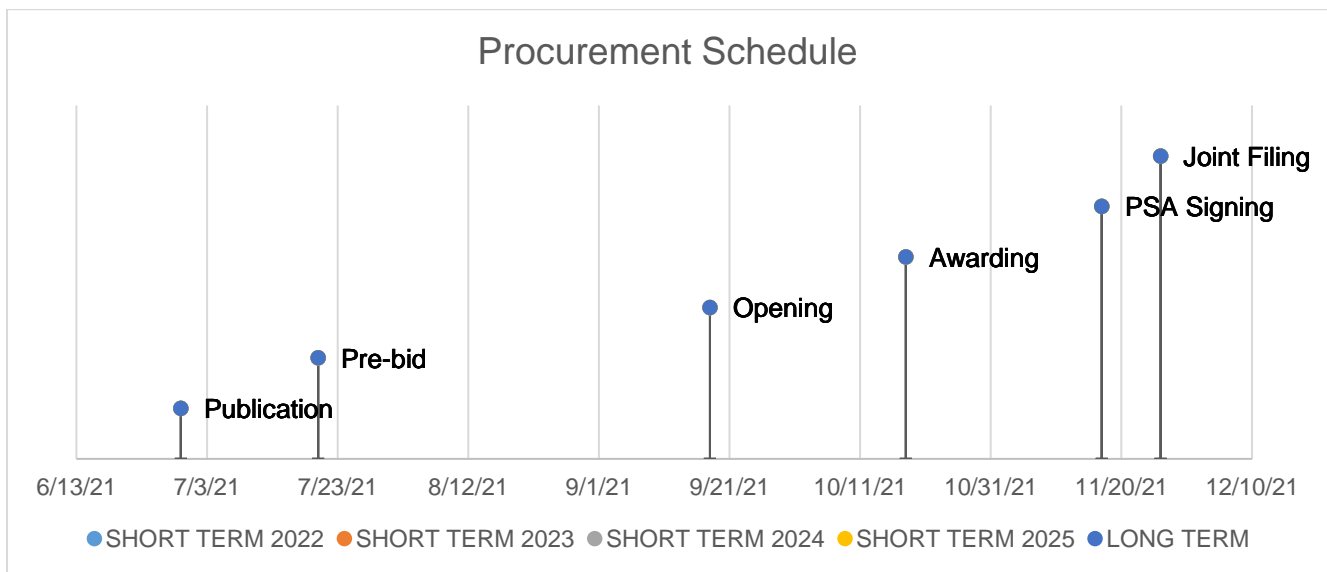
The PSA with GN Power Mariveles Coal Plant Ltd filed with ERC under Case No. 2007-121 RC was procured through competitive selection process. It was selected to provide for base requirements due to increasing demand. Historically, the utilization of the PSA is 83.84%. Outages of the plant led to unserved energy of around 36,203.60 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 4.08 P/kWh to 5.33 P/KWh in the same period.

The PSA with Masinloc Power Partners Company, Ltd. filed with ERC under Case No. 2015-215 RC was procured through competitive selection process. It was selected to provide for base requirements due to increasing demand. Historically, the utilization of the PSA is 85.92%. 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 4.10 P/kWh to 4.73 P/KWh in the same period.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2010-086 RC	Base	San Miguel Consolidated Power Corporation	5.00	38,010	07/26/2018	07/25/2028

The PSA with SMC Consolidated Power Corporation filed with ERC under Case No. 2010-086 RC was procured through competitive selection process. It was selected to provide for base requirements due to increasing demand. Historically, the utilization of the PSA is 93.46%. Outages of the plant led to unserved energy of around 2,864.94 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from P3.33/kWh to P5.76/KWh in the same period.

	SHORT TERM 2022	SHORT TERM 2023	SHORT TERM 2024	SHORT TERM 2025	LONG TERM
Type	Base	Base	Base	Base	Base
Minimum MW	3.50	5.00	7.00	8.00	11.00
Minimum MWh/yr	21,462	30,660	42,924	49,056	67,452
PSA Start	12/26/2021	12/26/2022	12/26/2023	12/26/2024	12/26/2025
PSA End	12/25/2022	12/25/2023	12/25/2024	12/25/2025	12/25/2045
Publication	6/29/2021	6/29/2021	6/29/2021	6/29/2021	6/29/2021
Pre-bid	7/20/2021	7/20/2021	7/20/2021	7/20/2021	7/20/2021
Opening	9/18/2021	9/18/2021	9/18/2021	9/18/2021	9/18/2021
Awarding	10/18/2021	10/18/2021	10/18/2021	10/18/2021	10/18/2021
PSA Signing	11/17/2021	11/17/2021	11/17/2021	11/17/2021	11/17/2021
Joint Filing	11/26/2021	11/26/2021	11/26/2021	11/26/2021	11/26/2021



For the procurement of 3.5 MW of supply which is planned to be available on 26th day of December 2021, the first publication or launch of CSP will be on 29th day of June 2021. Joint filing is planned on 26th day of November 2021, or 150 days later, in accordance with DOE’s 2018 CSP Policy.

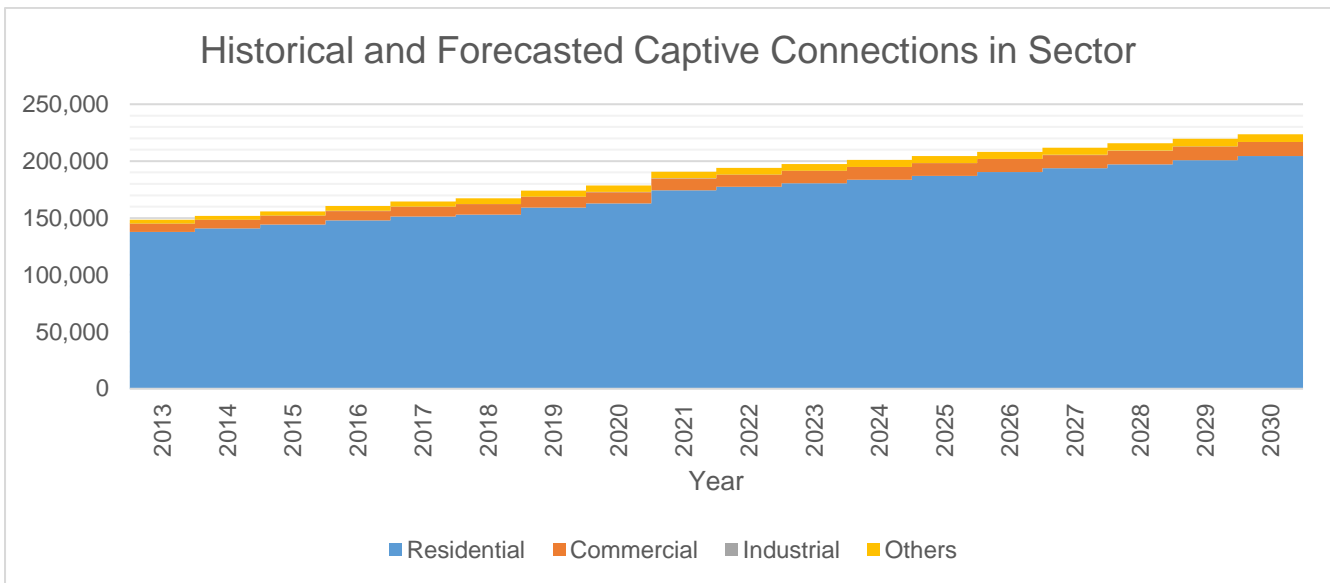
For the procurement of 5 MW of supply which is planned to be available on 26th day of December 2022, the first publication or launch of CSP will be on 29th day of June 2021. Joint filing is planned on 26th day of November 2021, or 150 days later, in accordance with DOE’s 2018 CSP Policy.

For the procurement of 7 MW of supply which is planned to be available on 26th day of December 2023, the first publication or launch of CSP will be on 29th day of June 2021. Joint filing is planned on 26th day of November 2021, or 150 days later, in accordance with DOE’s 2018 CSP Policy.

For the procurement of 8 MW of supply which is planned to be available on 26th day of December 2024, the first publication or launch of CSP will be on 29th day of June 2021. Joint filing is planned on 26th day of November 2021, or 150 days later, in accordance with DOE’s 2018 CSP Policy.

Lastly, For the procurement of 11 MW of supply which is planned to be available on 26th day of December 2025, the first publication or launch of CSP will be on 29th day of June 2021. Joint filing is planned on 26th day of November 2021, or 150 days later, in accordance with DOE’s 2018 CSP Policy.

Captive Customer Connections



The number of Residential Customer connections is expected to grow at a rate of 1.98% annually. Said customer class is expected to account for 67.81% of the total consumption.