



Power Supply Procurement Plan 2024

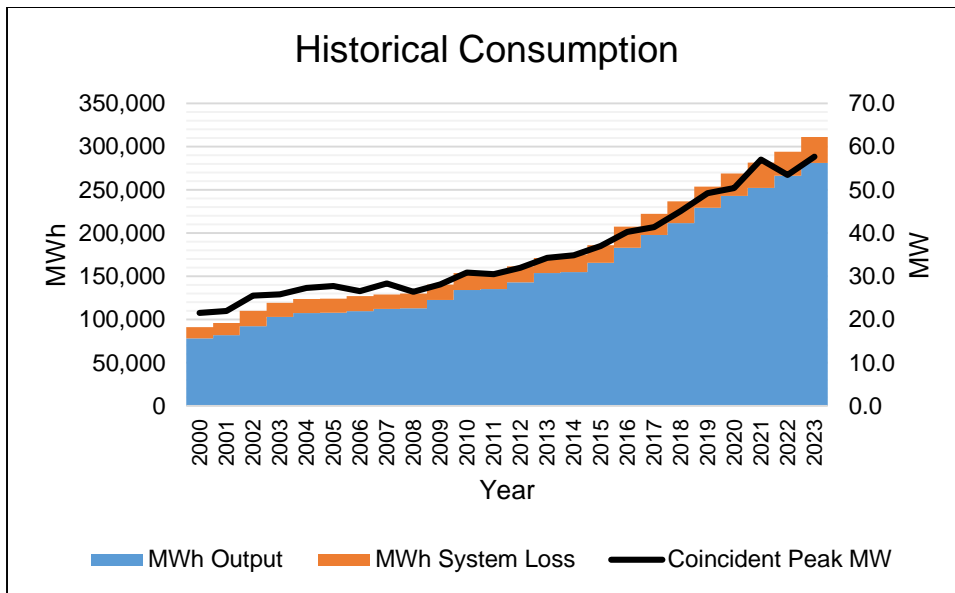
**LA UNION ELECTRIC COOPERATIVE, INC.
(LUELCO)**

Historical Consumption Data

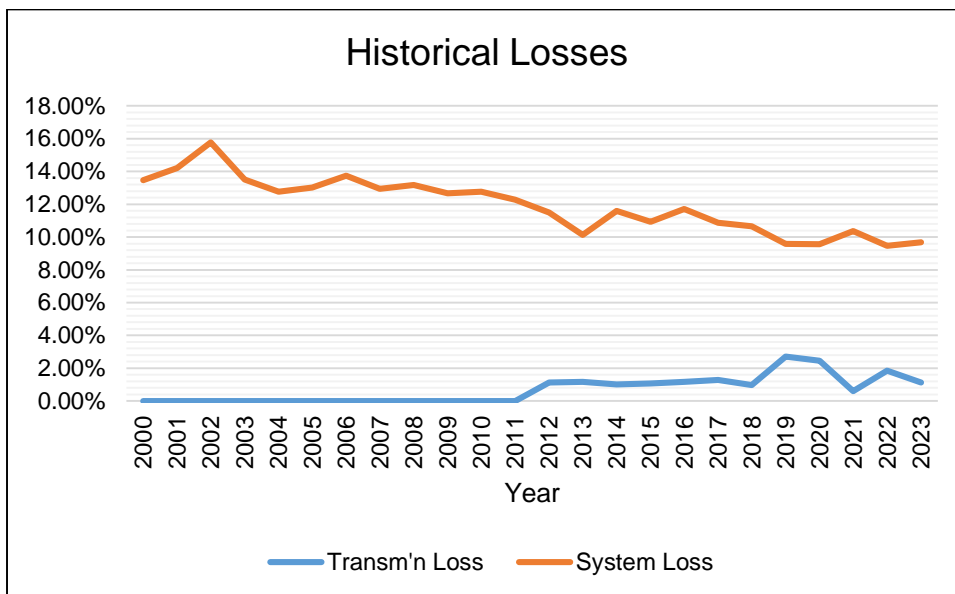
	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	21.56	94,707	0	94,707	78,446	12,761	50%	-3.70%	0.00%	13.47%
2001	21.98	99,790	0	99,790	81,891	14,170	52%	-3.74%	0.00%	14.20%
2002	25.55	111,583	0	111,583	92,415	17,594	50%	-1.41%	0.00%	15.77%
2003	25.87	120,938	0	120,938	102,944	16,340	53%	-1.37%	0.00%	13.51%
2004	27.31	125,222	0	125,222	107,688	15,972	52%	-1.25%	0.00%	12.76%
2005	27.73	125,160	0	125,160	107,968	16,299	52%	-0.71%	0.00%	13.02%
2006	26.55	127,575	0	127,575	109,672	17,525	55%	-0.30%	0.00%	13.74%
2007	28.36	130,123	0	130,123	112,190	16,839	52%	-0.84%	0.00%	12.94%
2008	26.41	130,051	0	130,051	112,922	17,130	56%	0.00%	0.00%	13.17%
2009	28.10	140,287	0	140,287	122,509	17,778	57%	0.00%	0.00%	12.67%
2010	30.86	153,816	0	153,816	134,182	19,635	57%	0.00%	0.00%	12.77%
2011	30.49	154,088	8,276	154,088	135,170	18,918	58%	0.00%	0.00%	12.28%
2012	31.98	163,402	12,773	161,543	142,966	18,577	58%	0.00%	1.14%	11.50%
2013	34.30	173,057	94,729	171,028	153,718	17,310	57%	0.00%	1.17%	10.12%
2014	34.85	176,955	51,168	175,177	154,886	20,291	57%	0.00%	1.00%	11.58%
2015	37.02	188,138	37,554	186,124	165,785	20,339	57%	0.00%	1.07%	10.93%
2016	40.28	209,881	27,683	207,444	183,148	24,296	59%	0.00%	1.16%	11.71%
2017	41.34	225,011	48,299	222,136	197,993	24,144	61%	0.00%	1.28%	10.87%
2018	45.05	238,948	72,376	236,612	211,398	25,214	60%	0.00%	0.98%	10.66%
2019	49.25	260,633	44,218	253,571	229,291	24,280	59%	0.00%	2.71%	9.58%
2020	50.43	275,588	30,098	268,817	243,099	25,718	61%	0.00%	2.46%	9.57%
2021	57.02	283,286	48,406	281,561	252,390	29,172	56%	0.00%	0.61%	10.36%
2022	53.42	299,752	38,416	294,222	266,397	27,825	63%	0.00%	1.85%	9.46%
2023	57.69	314,884	41,538	311,249	281,132	30,117	62%	0.00%	1.15%	9.68%

Peak Demand increased from 21.56 MW in 2000 to 57.69 MW in 2023 at an annual average growth rate of 4.53% due to growing load demand. MWh Offtake increased from 94,707 MWh in 2000 to 314,884 MWh in 2023 at an annual average growth rate of 5.416% due to increasing consumers. Within the same period, Load Factor ranged from 50% to 62%. There was an abrupt increase in consumption starting 2016 due to

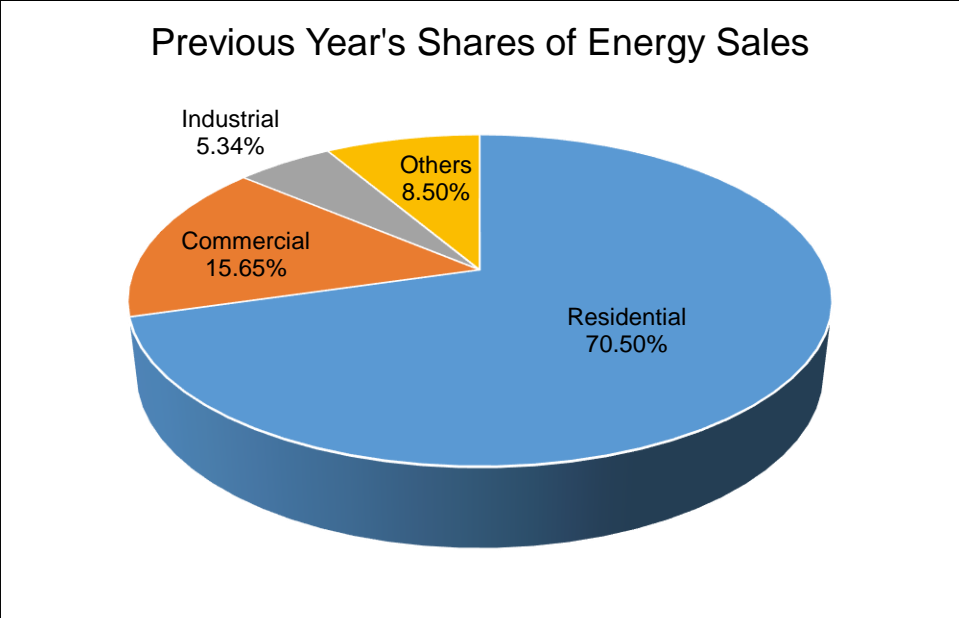
increasing industrial customers and an abrupt increase in demand on 2021 with 57.02 MW because of the pandemic with consumers that are working from home. *Note: For MWh Output, the values for Public Building, Streetlights, Water System for the year 2000 to 2010 were key in to all others. And to sanitize the historical (MWh Sales New vs. Old) we have included the MWh Sales (Old) all others to Low voltage of MWh Sales New. The MWh Offtake is greater from 2012 to 2023 because the data used are the bills coming from generators and WESM while the MWh Input, the NGCP Bill was used. The Coincident Peak values are extracted from the NGCP Billing determinants (BDD) on a monthly basis. The negative non-technical loss in the historical sheet was corrected due to incorrect input.



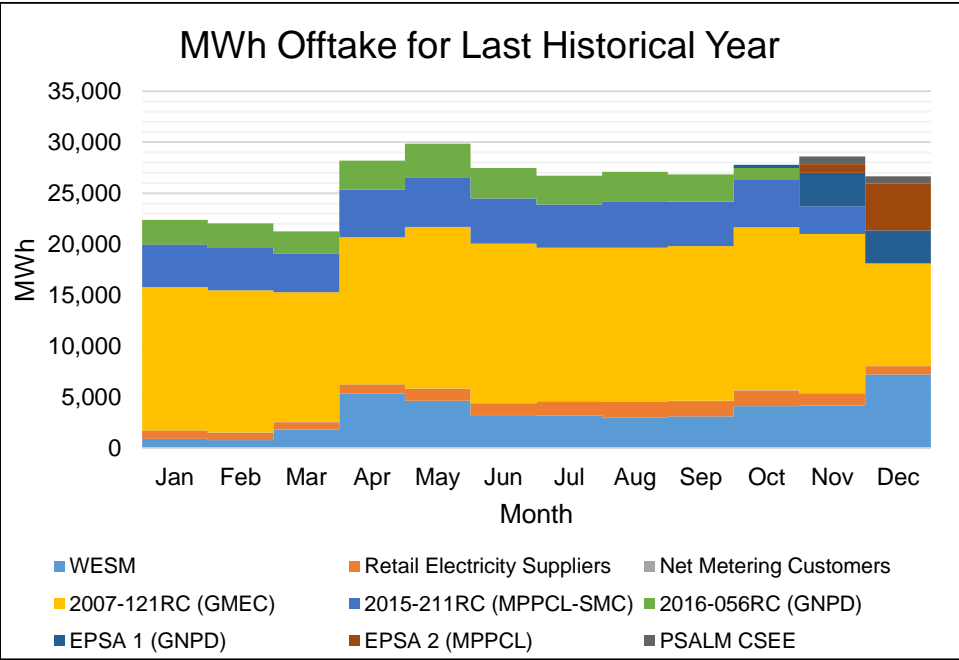
MWh Output increased from year 2000 to year 2023 at an annual average growth rate of 5.77%, while MWh System Loss increased at an annual average growth rate of 4.14% within the same period.



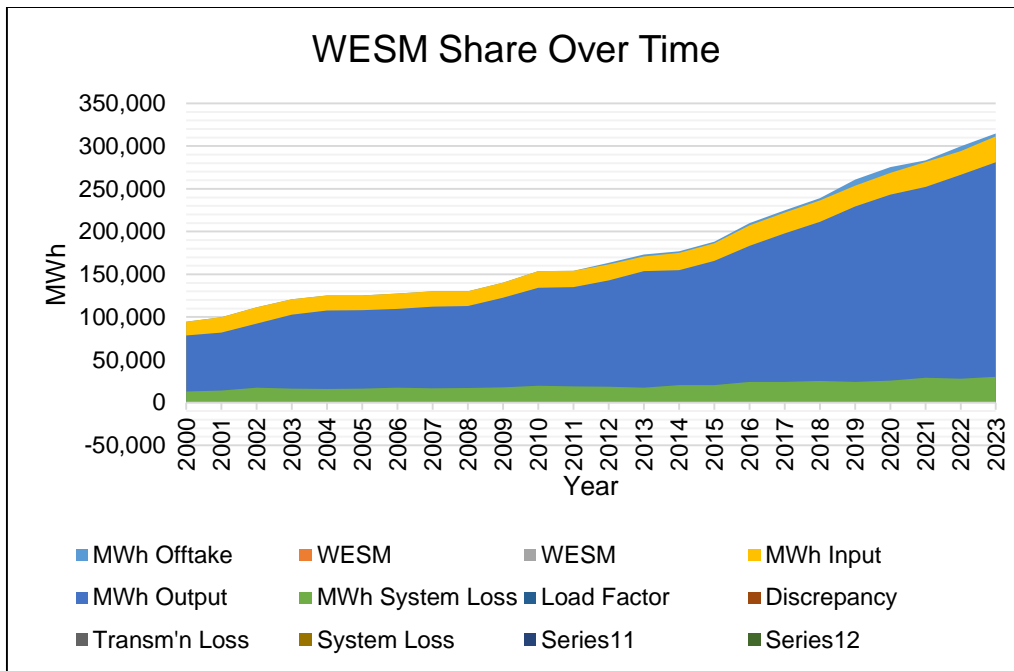
Historically, Transmission Loss ranged from 0.61% to 2.71% while System Loss ranged from 15.77% to 9.46%. Transmission Loss peaked at 2.71% on year 2019 because of the increase in the load. System Loss peaked at 15.77% on year 2002 because of series of typhoons occurred resulting in decreased energy sales.



Residential customers account for the bulk of energy sales at 70.50% due to the high number of connections. In contrast, Industrial customers accounted for only 5.34% of energy sales due to the low number of connections.

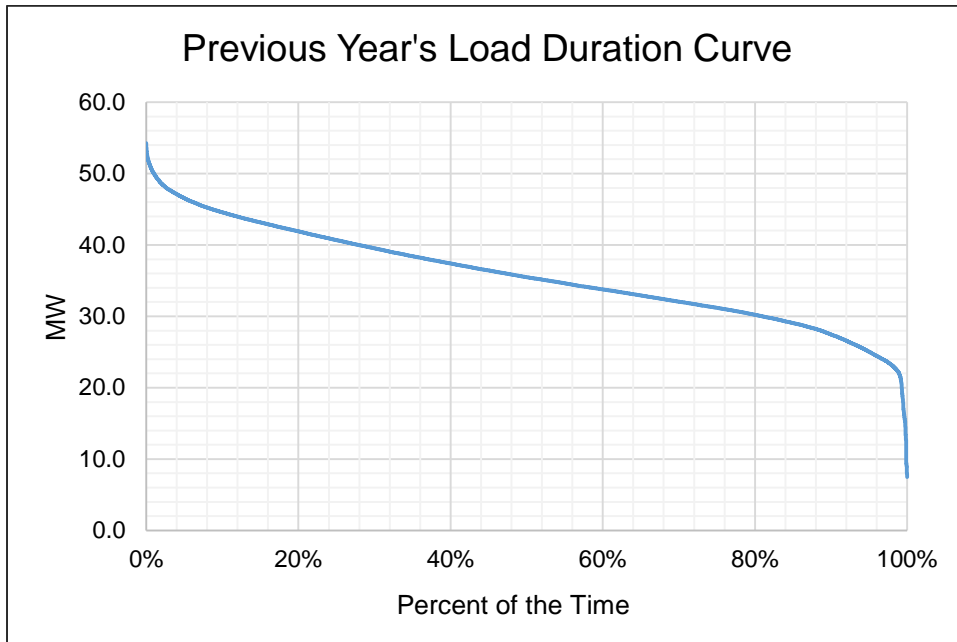


For 2023, the total Offtake for the last historical year is higher than the quantity stipulated in the PSA. The PSA with 2007-121 RC (GMEC) accounts for the bulk of MWh Offtake.

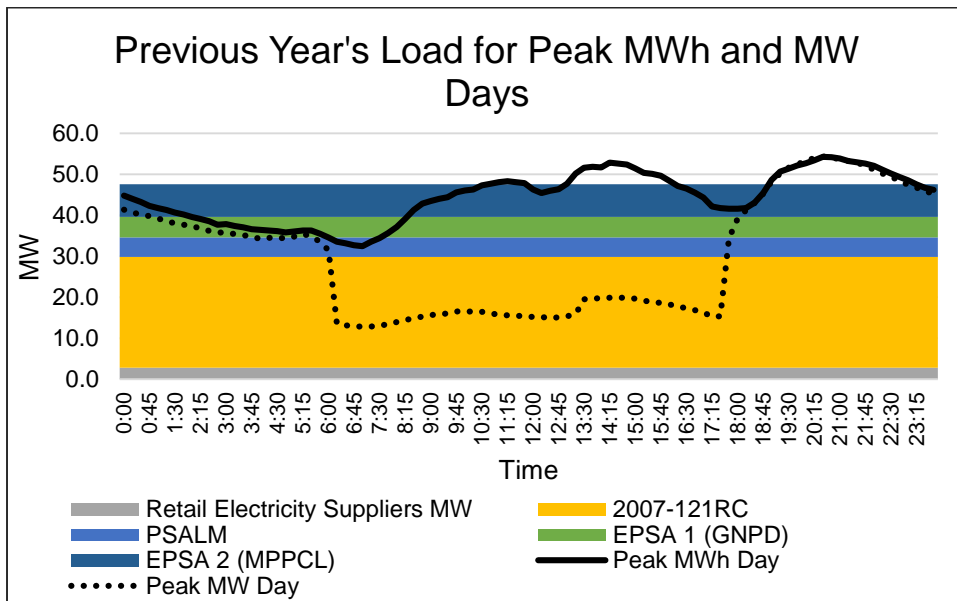


WESM Offtake increased from 38,416 MWh in 2022 to 41,538 MWh in 2023 at a rate of 8.13% due to increase in energy. The share of WESM in the total Offtake ranged from 5% in 2011 to 13% in 2023.

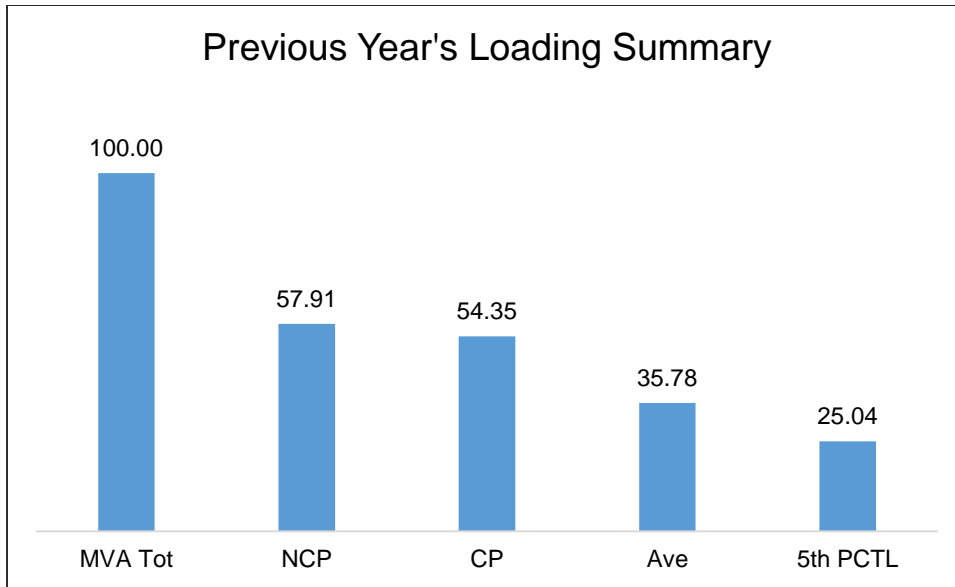
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 7.48 MW and the maximum load is 54.35 MW for the last historical year. * Note that the data was inputted from the NGCP Load profile per metering, which is sent every month along with their billing.



Peak MW occurred on 20:30 due to peak usage of residential customers. Peak daily MWh occurred on 20:30 due to an increase in the energy usage of customers. As shown in the Load Curves, the available supply is lower than the Peak Demand.



The Non-coincident Peak Demand is 57.91 MW, which is around 58% of the total substation capacity of 100 MVA at a power factor of 98%. The load factor or the ratio between the Average Load of 35.78 MW and the Non-coincident Peak Demand is 61.79%. A safe estimate of the true minimum load is the fifth percentile load of 25.04 MW which is 43.24% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
BAUANG METERING POINT 1	65	33.576
BAUANG METERING POINT 2	10	6.018
BACNOTAN METERING POINT	25	18.315

The substations loaded at above 70% is the Balaoan Substation under the Bacnotan Metering Point and Aringay Substation under the Bauang Metering Point. This loading problem will be solved by installing a new 15 MVA Substation at Bangar, La Union and installing additional power transformer at Aringay Substation.

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
2024	Jan	47.61	27.00	17.80	0.000	2.80	60%	100%	-0.01
	Feb	47.87	27.00	17.80	0.000	2.43	59%	99%	-0.64
	Mar	52.76	27.00	17.80	0.000	2.13	53%	88%	-5.83
	Apr	55.84	27.00	17.80	0.000	2.93	51%	85%	-8.11
	May	60.51	27.00	17.80	0.000	3.23	47%	78%	-12.48
	Jun	58.43	27.00	13.00	0.000	3.35	49%	73%	-15.08
	Jul	57.52	27.00	13.00	0.000	3.44	50%	74%	-14.08
	Aug	54.63	27.00	13.00	0.000	3.36	53%	78%	-11.26
	Sep	54.52	27.00	13.00	0.000	3.48	53%	78%	-11.04
	Oct	55.55	27.00	13.00	0.000	3.41	52%	77%	-12.14
	Nov	53.25	27.00	8.00	13.000	3.31	54%	96%	-1.94
	Dec	51.67	27.00	0.00	13.000	2.92	55%	82%	-8.76
2025	Jan	50.37	27.00	0.00	18.000	3.13	57%	95%	-2.23
	Feb	50.64	27.00	0.00	18.000	2.54	56%	94%	-3.09
	Mar	55.81	27.00	0.00	18.000	2.23	50%	84%	-8.58
	Apr	59.07	27.00	0.00	18.000	3.07	48%	80%	-11.00
	May	64.01	27.00	0.00	18.000	3.37	45%	74%	-15.63
	Jun	61.80	27.00	0.00	18.000	3.50	46%	77%	-13.30
	Jul	60.84	27.00	0.00	18.000	3.59	47%	79%	-12.25
	Aug	57.78	27.00	0.00	18.000	3.51	50%	83%	-9.27
	Sep	57.67	27.00	0.00	18.000	3.64	50%	83%	-9.03
	Oct	58.76	27.00	0.00	18.000	3.56	49%	82%	-10.20
	Nov	56.32	27.00	0.00	18.000	3.46	51%	85%	-7.86
	Dec	54.66	27.00	0.00	18.000	3.05	52%	87%	-6.61
2026	Jan	53.42	27.00	0.00	22.000	3.28	54%	98%	-1.14
	Feb	53.70	27.00	0.00	22.000	2.66	53%	96%	-2.04
	Mar	59.19	27.00	0.00	22.000	2.33	47%	86%	-7.86
	Apr	62.65	27.00	0.00	22.000	3.21	45%	82%	-10.44

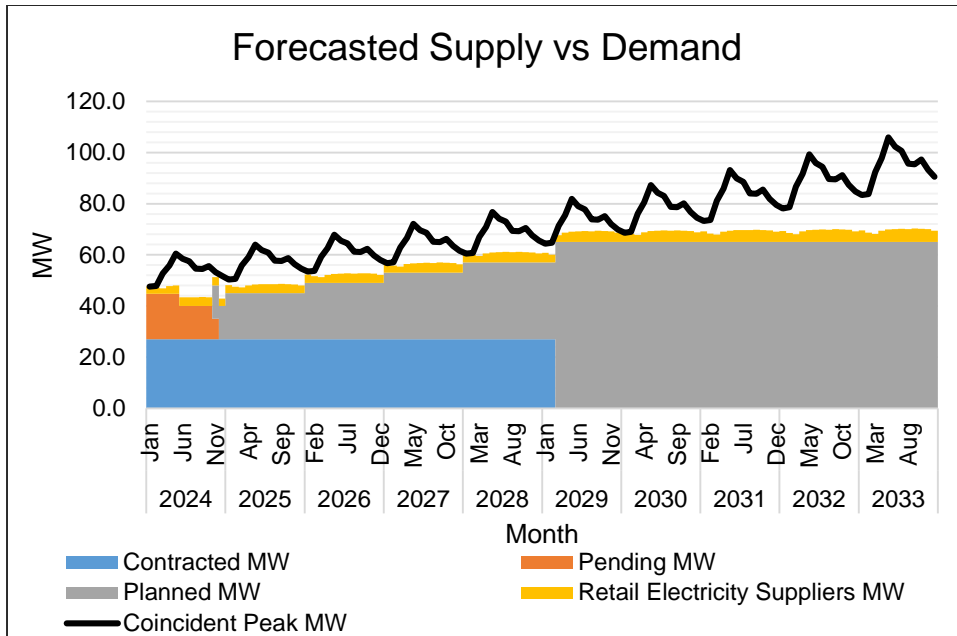
	May	67.88	27.00	0.00	22.000	3.53	42%	76%	-15.35
	Jun	65.55	27.00	0.00	22.000	3.66	44%	79%	-12.89
	Jul	64.53	27.00	0.00	22.000	3.76	44%	81%	-11.77
	Aug	61.28	27.00	0.00	22.000	3.68	47%	85%	-8.61
	Sep	61.16	27.00	0.00	22.000	3.81	47%	85%	-8.35
	Oct	62.32	27.00	0.00	22.000	3.73	46%	84%	-9.59
	Nov	59.74	27.00	0.00	22.000	3.62	48%	87%	-7.11
	Dec	57.97	27.00	0.00	22.000	3.19	49%	89%	-5.78
2027	Jan	56.77	27.00	0.00	26.000	3.43	51%	99%	-0.34
	Feb	57.07	27.00	0.00	26.000	2.78	50%	98%	-1.29
	Mar	62.91	27.00	0.00	26.000	2.44	45%	88%	-7.47
	Apr	66.58	27.00	0.00	26.000	3.36	43%	84%	-10.22
	May	72.14	27.00	0.00	26.000	3.69	39%	77%	-15.45
	Jun	69.66	27.00	0.00	26.000	3.83	41%	81%	-12.83
	Jul	68.58	27.00	0.00	26.000	3.94	42%	82%	-11.64
	Aug	65.13	27.00	0.00	26.000	3.85	44%	86%	-8.28
	Sep	65.00	27.00	0.00	26.000	3.99	44%	87%	-8.01
	Oct	66.24	27.00	0.00	26.000	3.90	43%	85%	-9.33
	Nov	63.49	27.00	0.00	26.000	3.79	45%	89%	-6.69
	Dec	61.61	27.00	0.00	26.000	3.34	46%	91%	-5.27
2028	Jan	60.43	27.00	0.00	30.000	3.29	47%	100%	-0.14
	Feb	60.75	27.00	0.00	30.000	2.91	47%	99%	-0.84
	Mar	66.96	27.00	0.00	30.000	2.55	42%	88%	-7.41
	Apr	70.87	27.00	0.00	30.000	3.52	40%	85%	-10.35
	May	76.79	27.00	0.00	30.000	3.87	37%	78%	-15.92
	Jun	74.15	27.00	0.00	30.000	4.02	38%	81%	-13.14
	Jul	73.00	27.00	0.00	30.000	4.12	39%	83%	-11.87
	Aug	69.33	27.00	0.00	30.000	4.03	41%	87%	-8.30
	Sep	69.19	27.00	0.00	30.000	4.18	42%	88%	-8.01
	Oct	70.50	27.00	0.00	30.000	4.09	41%	86%	-9.41
	Nov	67.58	27.00	0.00	30.000	3.97	42%	90%	-6.60
	Dec	65.58	27.00	0.00	30.000	3.50	43%	92%	-5.08
2029	Jan	64.39	27.00	0.00	30.000	3.76	45%	94%	-3.63

	Feb	64.74	27.00	0.00	30.000	3.05	44%	92%	-4.69
	Mar	71.36	0.00	0.00	65.000	2.67	0%	95%	-3.68
	Apr	75.52	0.00	0.00	65.000	3.68	0%	90%	-6.84
	May	81.83	0.00	0.00	65.000	4.05	0%	84%	-12.78
	Jun	79.02	0.00	0.00	65.000	4.21	0%	87%	-9.81
	Jul	77.79	0.00	0.00	65.000	4.32	0%	88%	-8.47
	Aug	73.88	0.00	0.00	65.000	4.22	0%	93%	-4.65
	Sep	73.73	0.00	0.00	65.000	4.38	0%	94%	-4.36
	Oct	75.13	0.00	0.00	65.000	4.29	0%	92%	-5.85
	Nov	72.01	0.00	0.00	65.000	4.16	0%	96%	-2.85
	Dec	69.88	0.00	0.00	65.000	3.67	0%	98%	-1.21
2030	Jan	68.67	0.00	0.00	65.000	3.54	0%	100%	-0.13
	Feb	69.04	0.00	0.00	65.000	3.20	0%	99%	-0.84
	Mar	76.09	0.00	0.00	65.000	2.80	0%	89%	-8.29
	Apr	80.53	0.00	0.00	65.000	3.86	0%	85%	-11.67
	May	87.27	0.00	0.00	65.000	4.25	0%	78%	-18.02
	Jun	84.26	0.00	0.00	65.000	4.41	0%	81%	-14.85
	Jul	82.95	0.00	0.00	65.000	4.53	0%	83%	-13.42
	Aug	78.78	0.00	0.00	65.000	4.43	0%	87%	-9.36
	Sep	78.63	0.00	0.00	65.000	4.59	0%	88%	-9.04
	Oct	80.12	0.00	0.00	65.000	4.49	0%	86%	-10.63
	Nov	76.79	0.00	0.00	65.000	4.36	0%	90%	-7.43
	Dec	74.52	0.00	0.00	65.000	3.84	0%	92%	-5.68
2031	Jan	73.25	0.00	0.00	65.000	4.13	0%	94%	-4.12
	Feb	73.65	0.00	0.00	65.000	3.35	0%	92%	-5.29
	Mar	81.17	0.00	0.00	65.000	2.94	0%	83%	-13.24
	Apr	85.91	0.00	0.00	65.000	4.05	0%	79%	-16.87
	May	93.09	0.00	0.00	65.000	4.45	0%	73%	-23.64
	Jun	89.89	0.00	0.00	65.000	4.62	0%	76%	-20.27
	Jul	88.49	0.00	0.00	65.000	4.74	0%	78%	-18.75
	Aug	84.04	0.00	0.00	65.000	4.64	0%	82%	-14.40
	Sep	83.88	0.00	0.00	65.000	4.81	0%	82%	-14.07
	Oct	85.47	0.00	0.00	65.000	4.71	0%	80%	-15.76

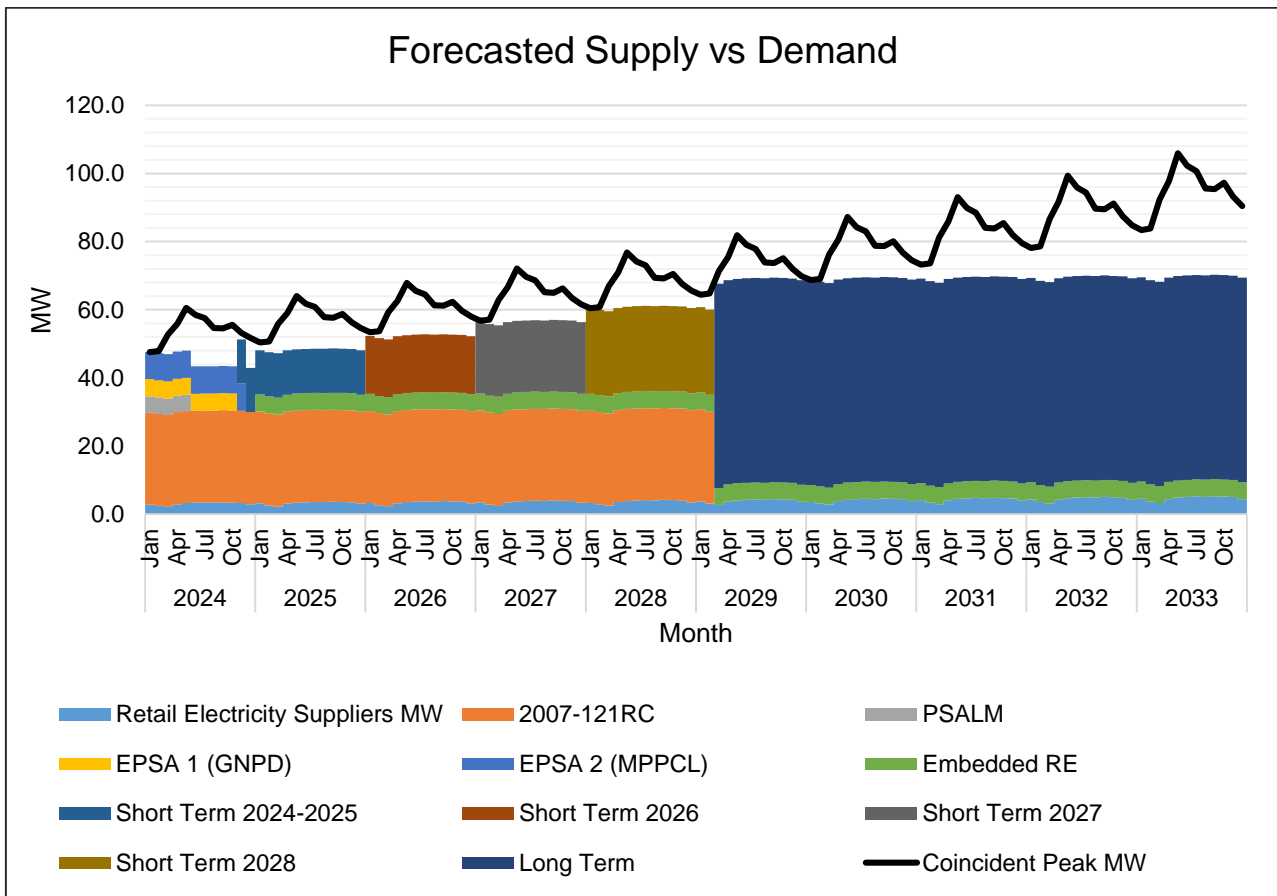
	Nov	81.92	0.00	0.00	65.000	4.57	0%	84%	-12.35
	Dec	79.50	0.00	0.00	65.000	4.03	0%	86%	-10.47
2032	Jan	78.15	0.00	0.00	65.000	4.33	0%	88%	-8.82
	Feb	78.57	0.00	0.00	65.000	3.51	0%	87%	-10.05
	Mar	86.60	0.00	0.00	65.000	3.08	0%	78%	-18.52
	Apr	91.65	0.00	0.00	65.000	4.24	0%	74%	-22.41
	May	99.31	0.00	0.00	65.000	4.67	0%	69%	-29.65
	Jun	95.90	0.00	0.00	65.000	4.84	0%	71%	-26.05
	Jul	94.40	0.00	0.00	65.000	4.97	0%	73%	-24.43
	Aug	89.66	0.00	0.00	65.000	4.86	0%	77%	-19.80
	Sep	89.48	0.00	0.00	65.000	5.04	0%	77%	-19.44
	Oct	91.18	0.00	0.00	65.000	4.93	0%	75%	-21.25
	Nov	87.39	0.00	0.00	65.000	4.79	0%	79%	-17.60
	Dec	84.81	0.00	0.00	65.000	4.22	0%	81%	-15.59
2033	Jan	83.36	0.00	0.00	65.000	4.54	0%	82%	-13.82
	Feb	83.80	0.00	0.00	65.000	3.68	0%	81%	-15.12
	Mar	92.37	0.00	0.00	65.000	3.23	0%	73%	-24.14
	Apr	97.76	0.00	0.00	65.000	4.44	0%	70%	-28.32
	May	105.93	0.00	0.00	65.000	4.89	0%	64%	-36.04
	Jun	102.29	0.00	0.00	65.000	5.08	0%	67%	-32.21
	Jul	100.69	0.00	0.00	65.000	5.21	0%	68%	-30.48
	Aug	95.63	0.00	0.00	65.000	5.10	0%	72%	-25.54
	Sep	95.44	0.00	0.00	65.000	5.28	0%	72%	-25.16
	Oct	97.25	0.00	0.00	65.000	5.17	0%	71%	-27.09
	Nov	93.22	0.00	0.00	65.000	5.02	0%	74%	-23.20
	Dec	90.46	0.00	0.00	65.000	4.42	0%	76%	-21.04

The Peak Demand was forecasted using NEA Forecasting Matrix 50 Models and was assumed to occur on the month of May due to the summer or dry season. Monthly Peak Demand is at its lowest on the months of January and February due to low usage of energy. In general, Peak Demand is expected to grow at an average rate of 6.42% annually. The deficit on the forecasted supply, LUELCO will be exploring opportunities to secure additional power supply contracts from renewable energy sources. The negative energy (MWh) in WESM on the months of January to March is

because the forecasted contracted energy (MWh) is bigger than the forecasted purchased (MWh) on those months for the reason that the energy usage for those months are low.

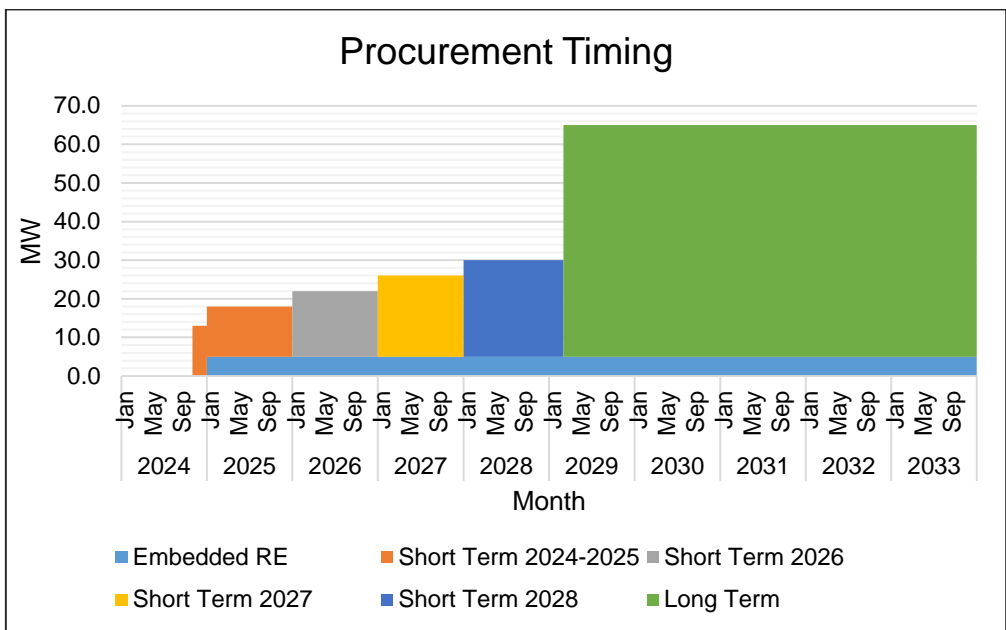


The available supply is generally below the Peak Demand. This is because of the growing demand and number of customers annually.

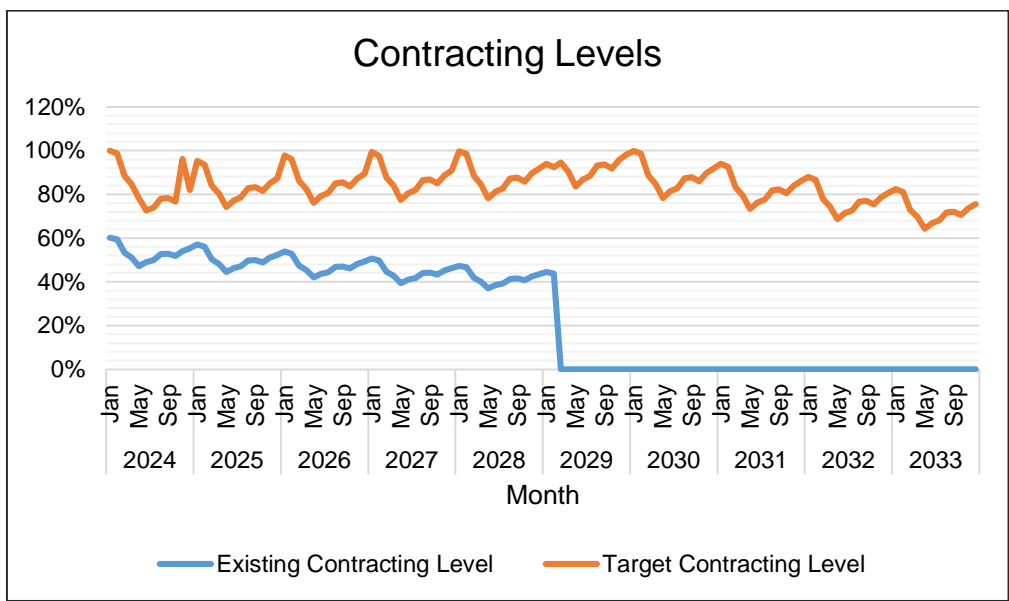


Of the available supply, the largest is 27 MW from 2007-121RC (GN Power Mariveles Energy Center Ltd. Co.). This is followed by 8 MW coming from the Emergency Power Supply Agreement with the Masinloc Power Partners Co. Ltd. And 5 MW from the other Emergency Power Supply Agreement with GN Power Dinginin Ltd. Co. Also, with 4.8 MW from the Contract for the Supply of Electric Energy (CSEE) with the Power Sector Assets and Liabilities Management Corporation (PSALM). We have also included the proposed embedded renewable energy in the planned contract with a

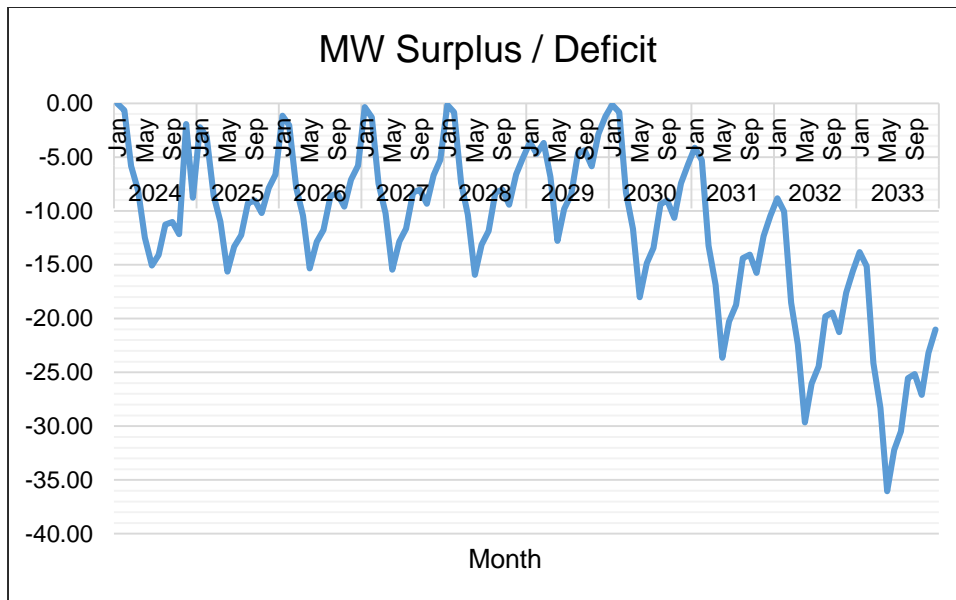
total of 5MW. And lastly, we have planned to have a short term csp for the year 2025 to 2028 and a long term csp starting 2029.



The first wave of supply procurement will be for Short Term CSP Starting 2025 with 13 MW, 2026 with 17 MW, 2027 with 21 MW, and 25 MW for 2028 for the base load requirement. And a Long term CSP will follow on year 2029 with a demand requirement of 60 MW. Also included is the planned Renewable Energy embedded with a total of 5MW.



Currently, there is under-contracting on the average of 31%. The highest target contracting level is 100% which is expected to occur on January 2024. The lowest target contracting level is 64% which is expected to occur on May 2033.



Currently, there is under-contacting by 12.89 MW. The highest deficit is 36.04 MW which is expected to occur on the month of May 2033. The lowest deficit is .01 MW which is expected to occur on the month of January 2024.

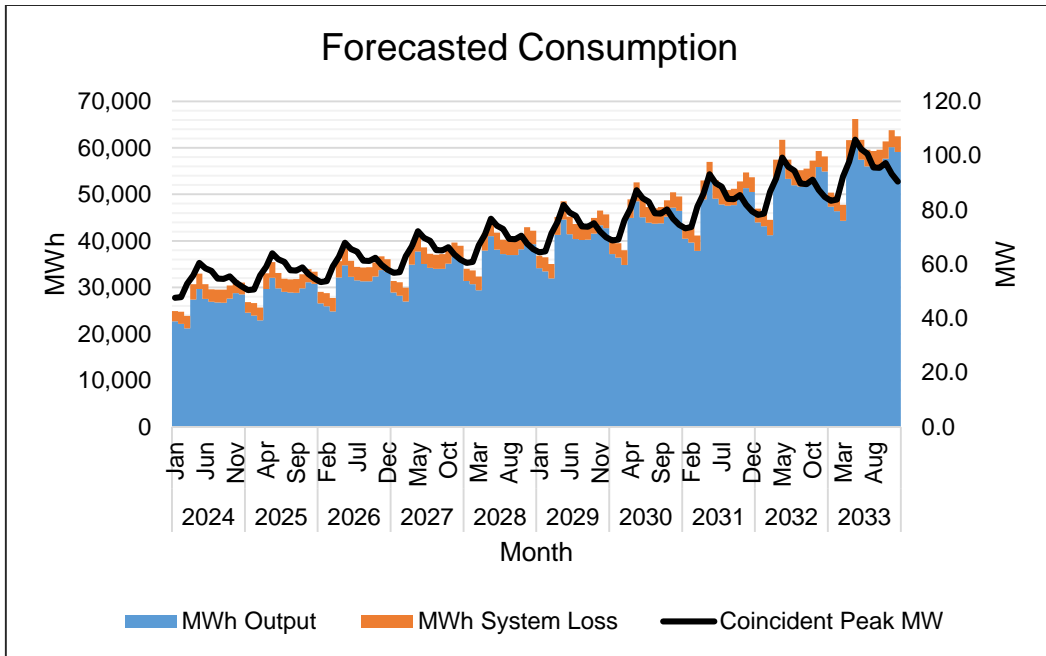
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	25,163	22,685	2,248	0.91%	9.02%
	Feb	24,943	22,127	2,612	0.82%	10.56%
	Mar	24,298	21,175	2,706	1.72%	11.33%
	Apr	30,889	27,392	3,273	0.73%	10.67%
	May	33,221	29,625	3,308	0.87%	10.05%
	Jun	31,085	27,550	3,170	1.17%	10.32%
	Jul	29,880	26,886	2,724	0.90%	9.20%
	Aug	30,013	26,757	2,736	1.73%	9.28%
	Sep	29,739	26,663	2,856	0.74%	9.67%
	Oct	30,773	27,574	2,869	1.07%	9.42%
	Nov	31,811	28,752	2,738	1.01%	8.69%
	Dec	31,420	28,474	2,542	1.29%	8.20%
2025	Jan	27,070	24,529	2,331	0.78%	8.68%
	Feb	26,859	23,941	2,698	0.82%	10.13%
	Mar	26,010	22,906	2,784	1.23%	10.84%
	Apr	33,287	29,628	3,388	0.81%	10.26%
	May	35,769	32,033	3,426	0.87%	9.66%
	Jun	33,494	29,985	3,288	1.25%	9.94%
	Jul	32,119	29,062	2,824	0.73%	8.86%
	Aug	31,994	28,920	2,834	0.75%	8.92%
	Sep	32,293	28,848	2,956	1.52%	9.29%
	Oct	33,191	29,826	2,965	1.21%	9.04%
	Nov	34,225	31,102	2,833	0.85%	8.35%
	Dec	33,778	30,761	2,627	1.15%	7.87%
2026	Jan	29,220	26,588	2,414	0.75%	8.32%
	Feb	29,072	25,968	2,784	1.10%	9.68%
	Mar	28,063	24,840	2,863	1.28%	10.33%
	Apr	36,017	32,123	3,504	1.08%	9.84%

	May	38,821	34,721	3,543	1.43%	9.26%
	Jun	36,296	32,279	3,407	1.68%	9.55%
	Jul	34,731	31,488	2,923	0.92%	8.49%
	Aug	34,541	31,330	2,931	0.81%	8.56%
	Sep	34,620	31,284	3,056	0.81%	8.90%
	Oct	35,707	32,339	3,062	0.86%	8.65%
	Nov	36,930	33,722	2,928	0.76%	7.99%
	Dec	36,400	33,318	2,712	1.02%	7.53%
2027	Jan	31,629	28,872	2,497	0.82%	7.96%
	Feb	31,608	28,217	2,870	1.65%	9.23%
	Mar	30,347	26,986	2,941	1.38%	9.83%
	Apr	38,909	34,889	3,620	1.03%	9.40%
	May	41,832	37,701	3,661	1.12%	8.85%
	Jun	39,039	35,043	3,526	1.20%	9.14%
	Jul	37,501	34,176	3,023	0.81%	8.13%
	Aug	37,432	34,000	3,029	1.08%	8.18%
	Sep	37,401	33,985	3,156	0.70%	8.50%
	Oct	38,653	35,124	3,159	0.96%	8.25%
	Nov	40,157	36,624	3,023	1.27%	7.62%
	Dec	39,262	36,156	2,797	0.79%	7.18%
2028	Jan	34,389	31,390	2,579	1.22%	7.59%
	Feb	34,013	30,697	2,956	1.06%	8.78%
	Mar	32,922	29,353	3,019	1.67%	9.33%
	Apr	42,071	37,940	3,736	0.94%	8.96%
	May	45,211	40,987	3,779	0.98%	8.44%
	Jun	42,316	38,091	3,645	1.37%	8.73%
	Jul	40,789	37,137	3,122	1.30%	7.75%
	Aug	40,528	36,942	3,126	1.14%	7.80%
	Sep	40,518	36,962	3,256	0.74%	8.09%
	Oct	41,912	38,196	3,256	1.10%	7.85%
	Nov	43,581	39,823	3,118	1.47%	7.26%
	Dec	42,557	39,285	2,881	0.92%	6.83%
2029	Jan	37,294	34,152	2,662	1.29%	7.23%
	Feb	36,739	33,418	3,042	0.76%	8.34%
	Mar	35,367	31,949	3,098	0.90%	8.84%
	Apr	45,609	41,287	3,851	1.03%	8.53%
	May	48,960	44,593	3,896	0.96%	8.04%
	Jun	45,717	41,435	3,764	1.13%	8.33%
	Jul	44,147	40,386	3,222	1.22%	7.39%
	Aug	43,772	40,168	3,224	0.87%	7.43%
	Sep	44,003	40,228	3,355	0.95%	7.70%
	Oct	45,427	41,565	3,352	1.12%	7.46%
	Nov	46,828	43,331	3,213	0.61%	6.90%
	Dec	46,214	42,718	2,966	1.15%	6.49%
2030	Jan	40,243	37,168	2,745	0.82%	6.88%
	Feb	39,896	36,389	3,128	0.95%	7.92%
	Mar	38,271	34,785	3,176	0.81%	8.37%
	Apr	49,382	44,945	3,967	0.95%	8.11%
	May	53,006	48,532	4,014	0.87%	7.64%

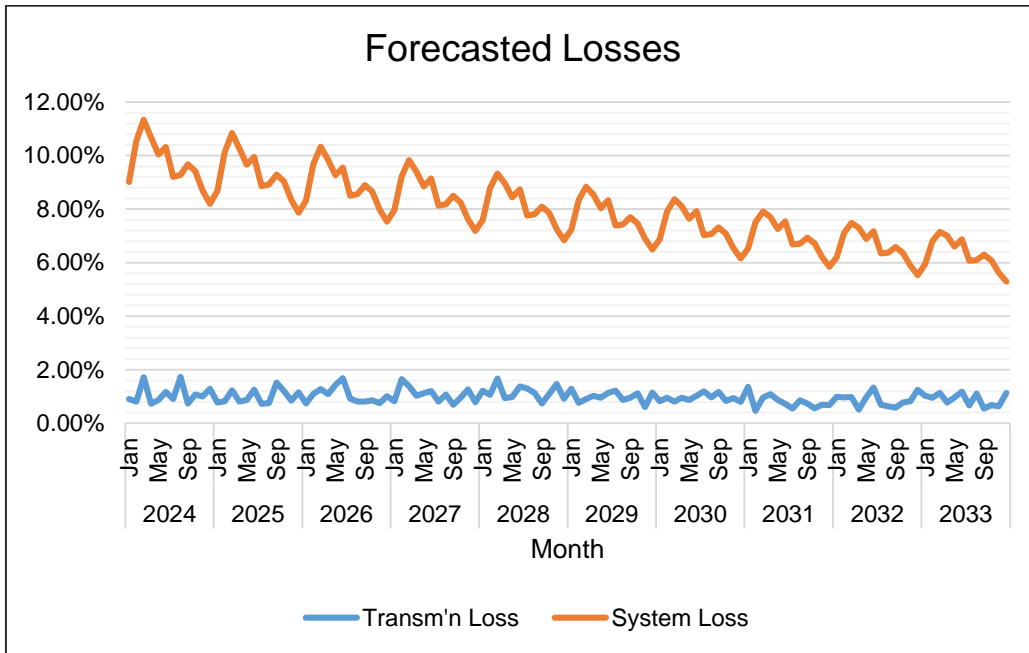
	Jun	49,479	45,086	3,883	1.03%	7.93%
	Jul	47,824	43,933	3,321	1.19%	7.03%
	Aug	47,471	43,690	3,321	0.97%	7.06%
	Sep	47,809	43,794	3,455	1.17%	7.31%
	Oct	49,104	45,244	3,449	0.84%	7.08%
	Nov	50,951	47,163	3,308	0.94%	6.55%
	Dec	49,916	46,465	3,051	0.80%	6.16%
2031	Jan	43,874	40,448	2,828	1.36%	6.53%
	Feb	43,033	39,620	3,214	0.46%	7.50%
	Mar	41,522	37,868	3,254	0.96%	7.91%
	Apr	53,589	48,926	4,083	1.08%	7.70%
	May	57,452	52,817	4,132	0.88%	7.25%
	Jun	53,451	49,059	4,002	0.73%	7.54%
	Jul	51,492	47,792	3,420	0.54%	6.68%
	Aug	51,379	47,520	3,419	0.86%	6.71%
	Sep	51,608	47,673	3,555	0.74%	6.94%
	Oct	53,092	49,246	3,546	0.57%	6.72%
	Nov	55,116	51,333	3,403	0.69%	6.22%
	Dec	54,043	50,537	3,136	0.68%	5.84%
2032	Jan	47,383	44,003	2,910	0.99%	6.20%
	Feb	46,873	43,121	3,300	0.97%	7.11%
	Mar	44,981	41,208	3,333	0.98%	7.48%
	Apr	57,742	53,243	4,199	0.52%	7.31%
	May	62,313	57,464	4,249	0.96%	6.89%
	Jun	58,267	53,366	4,121	1.34%	7.17%
	Jul	55,885	51,975	3,520	0.70%	6.34%
	Aug	55,539	51,673	3,516	0.63%	6.37%
	Sep	55,863	51,878	3,655	0.59%	6.58%
	Oct	57,677	53,584	3,643	0.78%	6.37%
	Nov	59,849	55,854	3,498	0.83%	5.89%
	Dec	58,909	54,948	3,221	1.26%	5.54%
2033	Jan	50,881	47,368	2,993	1.02%	5.94%
	Feb	50,252	46,386	3,386	0.96%	6.80%
	Mar	48,286	44,325	3,411	1.14%	7.15%
	Apr	62,115	57,321	4,315	0.77%	7.00%
	May	66,872	61,856	4,367	0.97%	6.59%
	Jun	62,451	57,472	4,240	1.18%	6.87%
	Jul	60,027	56,005	3,619	0.67%	6.07%
	Aug	59,973	55,691	3,613	1.12%	6.09%
	Sep	59,927	55,842	3,755	0.55%	6.30%
	Oct	61,819	57,660	3,739	0.68%	6.09%
	Nov	64,173	60,170	3,593	0.64%	5.63%
	Dec	63,173	59,147	3,306	1.14%	5.29%

MWh Offtake was forecasted using NEA Forecasting Matrix 50 Models.

System Loss was calculated through a Load Flow Study conducted by using the Distribution System Application Software Package 1 (DSAS). Based on the same study, the Distribution System can adequately convey electricity to customers.



MWh Output was expected to grow at an average rate of 8.53% annually.



Transmission Loss is expected to range from 0.46% to 1.73% while System Loss is expected to range from 5.29% to 11.33%.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	Maximum MW	Maximum MWh/yr	PSA Start	PSA End
2007-121RC	Base	GN Power Mariveles Coal Plant Ltd.	18.90	165,564	27	236,520	2/26/2014	2/25/2029

The Power Supply Agreement (PSA) with the GN Power Mariveles Coal Plant Ltd. that was filed with the ERC under Case No. 2007-121RC was procured through contracting. It was selected to provide for the base requirements due to the transition period under the 2001 EPIRA Law. Historically, the utilization of PSA is an average of 72.89% in 2022. Outages of the plant led to unserved energy in the past year. The actual billed overall monthly charge under the PSA ranged from 7.57 Php/kWh to 12.13 Php/KWh in 2022.

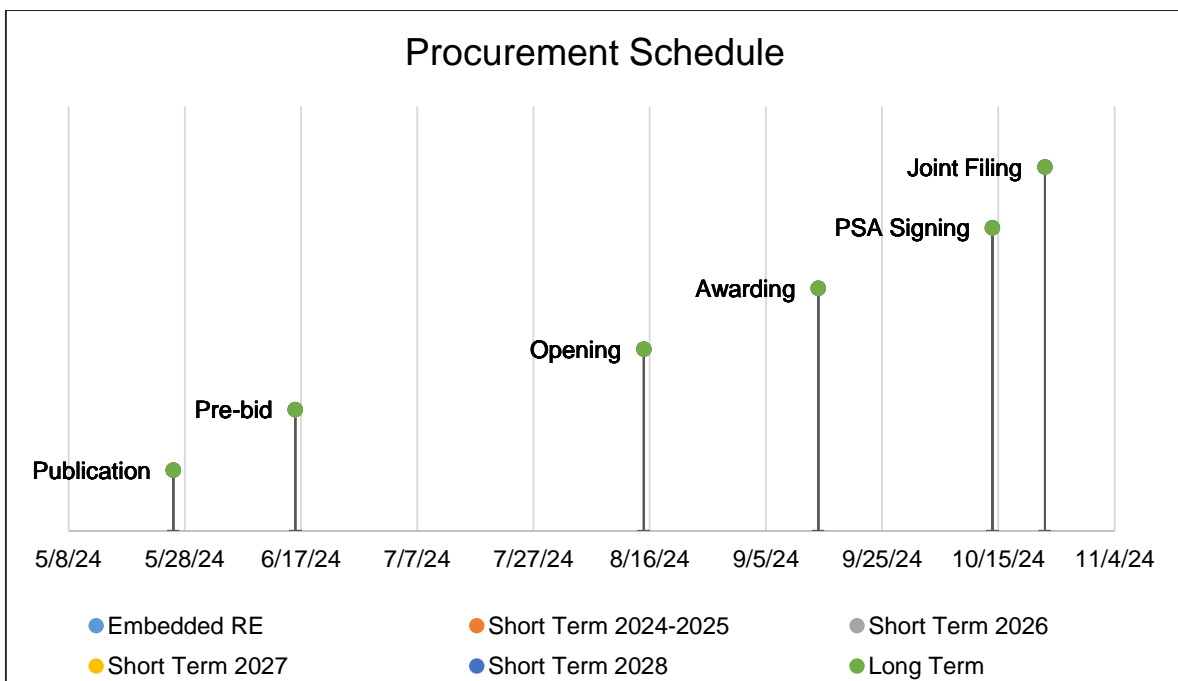
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	Maximum MW	Maximum MWh/yr	PSA Start	PSA End
PSALM CSEE	Base	Power Sector Assets and Liabilities Management Corporation	3.36	3,575	4.8	6,552	10/26/2023	5/25/2024
EPSA 1 (GNPD)	Base	GN Power Dinginin	3.50	30,660	5	43,800	10/22/2023	10/25/2024
EPSA 2 (MPPCL)	Base	Masinloc Power Partners Company, Ltd.	5.60	49,325	8	70,080	11/20/2023	11/25/2024

The Power Supply Agreement (PSA) with the Power Sector Assets and Liabilities Management Corporation (PSALM) filed with the ERC was procured through an Emergency Power Supply Agreement. It was selected for the base requirement due to base load deficits. The Contract for the Supply of Electric Energy (CSEE) commenced last October 25, 2023 using the Time of Use with an effective rate of 6.1093 Php/KWh to 6.4446 Php/KWh (+/- ACRM True-up Adjustments).

The Emergency Power Supply Agreement (EPSA) with the GN Power Dinginin (GNPD) filed with the ERC was procured through an Emergency Power Supply Agreement. It was selected for the base requirement due to base load deficits. The Emergency Power Supply Agreement (EPSA) commenced last October 22, 2023.

The Emergency Power Supply Agreement (EPSA) with the Masinloc Power Partners Company, Ltd. (MPPCL) filed with the ERC was procured through an Emergency Power Supply Agreement. It was selected for the base requirement due to base load deficits. The Emergency Power Supply Agreement (EPSA) commenced last November 20, 2023.

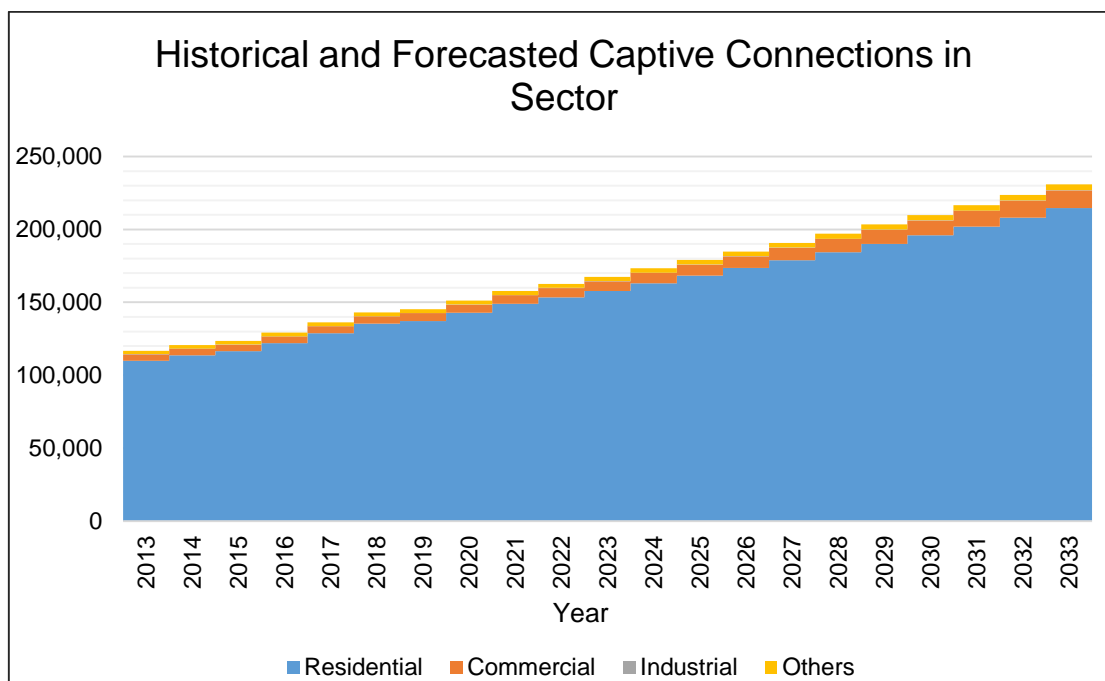
	Embedded RE	Short Term 2024-2025	Short Term 2026	Short Term 2027	Short Term 2028	Long Term
Type	Base	Base	Base	Base	Base	Base
Minimum MW	3.50	9.10	11.90	14.70	17.50	42.00
Minimum MWh/yr	30,744	79,716	104,244	128,772	178,500	367,920
Maximum MW	5	13	17	21	25	60
Maximum MWh/yr	43,920	114,192	148,920	183,960	219,600	525,600
PSA Start	12/26/2024	10/26/2024	12/26/2025	12/26/2026	12/26/2027	2/26/2029
PSA End	12/25/2049	12/25/2025	12/25/2026	12/25/2027	2/25/2029	2/25/2039
Publication	5/26/2024	5/26/2024	5/26/2024	5/26/2024	5/26/2024	5/26/2024
Pre-bid	6/16/2024	6/16/2024	6/16/2024	6/16/2024	6/16/2024	6/16/2024
Opening	8/15/2024	8/15/2024	8/15/2024	8/15/2024	8/15/2024	8/15/2024
Awarding	9/14/2024	9/14/2024	9/14/2024	9/14/2024	9/14/2024	9/14/2024
PSA Signing	10/14/2024	10/14/2024	10/14/2024	10/14/2024	10/14/2024	10/14/2024
Joint Filing	10/23/2024	10/23/2024	10/23/2024	10/23/2024	10/23/2024	10/23/2024



For the short term CSP, it will be an increasing supply in every year for the baseload requirement from 13, 17, 21 and 25 MW of supply starting 26th day of October 2024 to 25th day of February 2029. The first publication or launch of CSP will be conducted on the 26th day of May 2024. Joint filing is planned on 23rd day of October 2024, or 150 days later, in accordance with DOE 2023 CSP Policy and ERC 2023 CSP Rules. And for the Embedded Renewable Energy, it will be a 5 MW renewable of supply starting on the 26th day of December 2024 with 25 years contract until 25th day of December 2049.

Lastly, due to the expiration of PSA contract with GMEC on 26th day of February 2029, LUELCO will be conducting a Long Term CSP to procure 60 MW supply for baseload which is planned to be available on 26th day of February 2029. Joint filing is planned on 23rd day of October 2024, or 150 days later, in accordance with DOE 2023 CSP Policy and ERC 2023 CSP Rules.

Captive Customer Connections



The number of residential connections is expected to grow at an average rate of 3.41% annually. Said customer class is expected to account for 93.98% of the total connections.

The number of commercial connections is expected to grow at an average rate of 5.05% annually. Said customer class is expected to account for 4.18% of the total connections.

The number of industrial connections is expected to grow at an average rate of 4.8% annually. Said customer class is expected to account for 0.08% of the total connections.

The number of other connections is expected to grow at an average rate of 2.78% annually. Said customer class is expected to account for 1.76% of the total connections.