

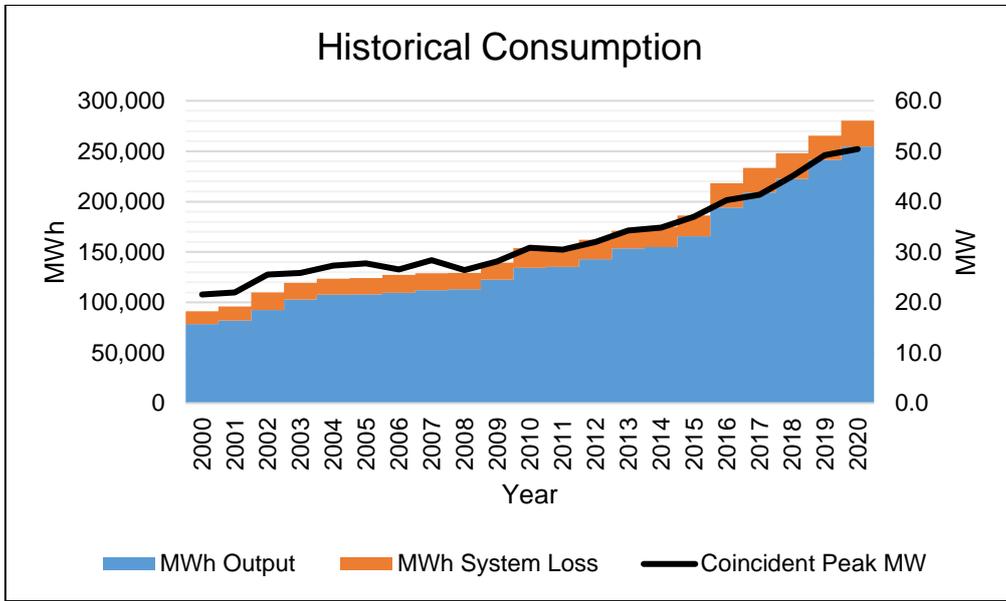
Power Supply Procurement Plan 2021

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

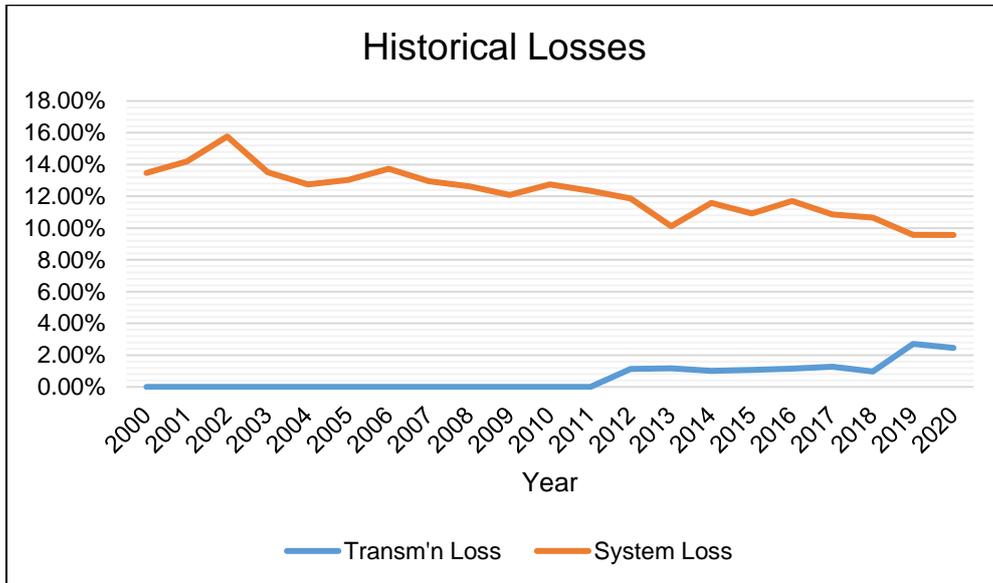
Historical Consumption Data

	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	16,421	56%	-0.54%	0.00%	12.63%
2009	28.10	140,287	0	140,287	122,509	16,947	57%	-0.59%	0.00%	12.08%
2010	30.86	153,816	0	153,816	134,182	19,617	57%	-0.01%	0.00%	12.75%
2011	30.49	154,088	8,276	154,088	135,170	19,032	58%	0.07%	0.00%	12.35%
2012	31.98	163,402	12,773	161,543	142,966	19,161	58%	0.36%	1.14%	11.86%
2013	34.30	173,057	94,729	171,028	153,718	17,286	57%	-0.01%	1.17%	10.11%
2014	34.85	176,955	51,168	175,177	154,886	20,277	57%	-0.01%	1.00%	11.57%
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	194,021	24,296	59%	5.24%	1.16%	11.71%
2017	41.34	225,011	48,299	222,136	209,128	24,144	61%	5.01%	1.28%	10.87%
2018	45.05	238,948	72,376	236,612	222,776	25,214	60%	4.81%	0.98%	10.66%
2019	49.25	260,633	44,218	253,571	241,213	24,280	59%	4.70%	2.71%	9.58%
2020	50.43	275,588	30,098	268,817	254,532	25,718	61%	4.25%	2.46%	9.57%

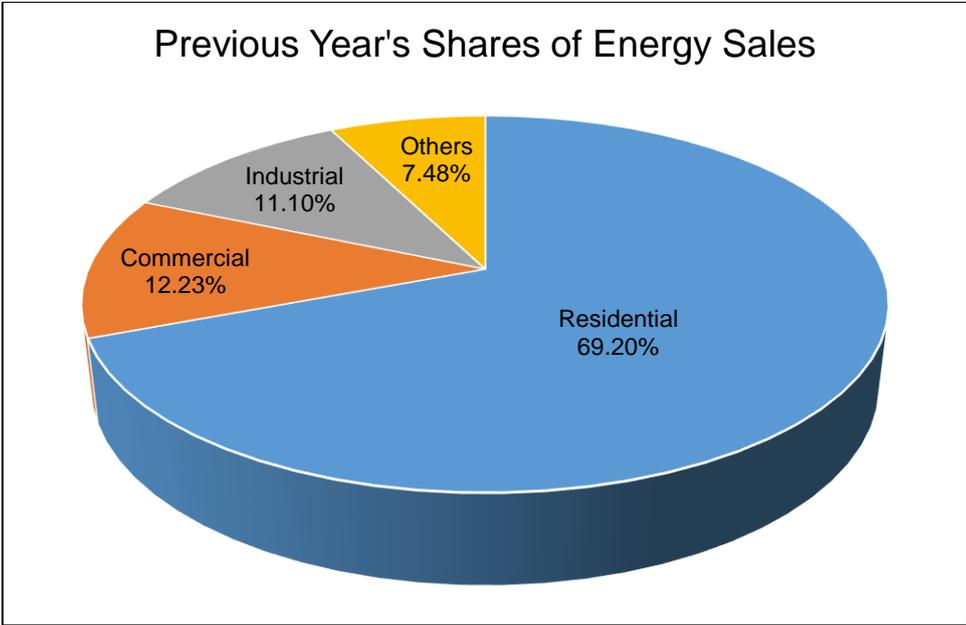
Peak Demand increased from 21.56 MW in 2000 to 50.43 MW in 2020 at an annual average growth rate of 4.47% due to growing load demand. MWh Offtake increased from 94,707 MWh in 2000 to 268,817 MWh in 2020 at an annual average growth rate of 5.55% due to increasing consumers. Within the same period, the Load Factor ranged from 50% to 61%. There was an abrupt increase in consumption in 2016 with a growth rate of 12% due to increasing industrial customers. *Note: For MWh Output, the values for Public Bldg., Streetlights, Water System for the year 2000 to 2010 were inputted to all others.



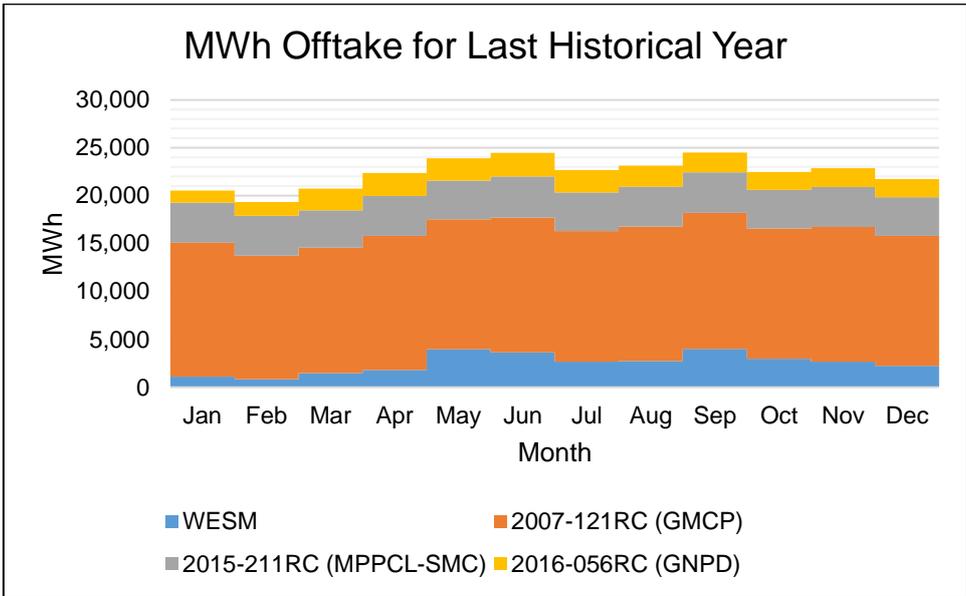
MWh Output increased from the year 2000 to the year 2020 at an annual average growth rate of 6.15%, while MWh System Loss decreased at an annual average rate of -1.40% within the same period.



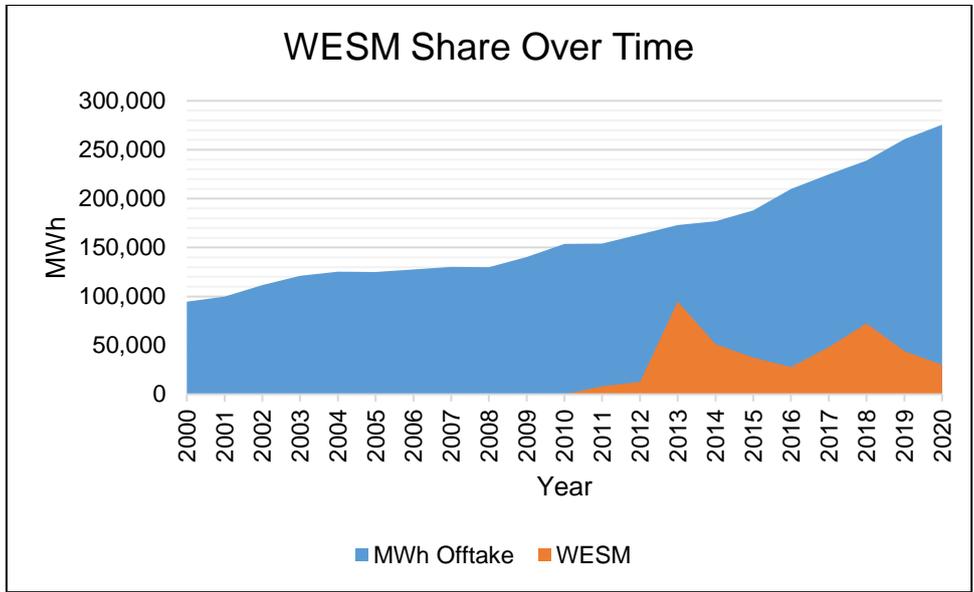
Historically, Transmission Loss ranged from 1.14% to 2.46% while System Loss ranged from 13.47% to 9.57%. Transmission Loss peaked at 2.71% in the year 2019 because of the increase in the load. System Loss peaked at 15.77% in the year 2002 because of series of typhoons occurred resulting in decreased energy sales.



Residential customers account for the bulk of energy sales at 69.20% due to the high number of connections. In contrast, Industrial customers accounted for only 11.10% of energy sales due to the low number of connections.

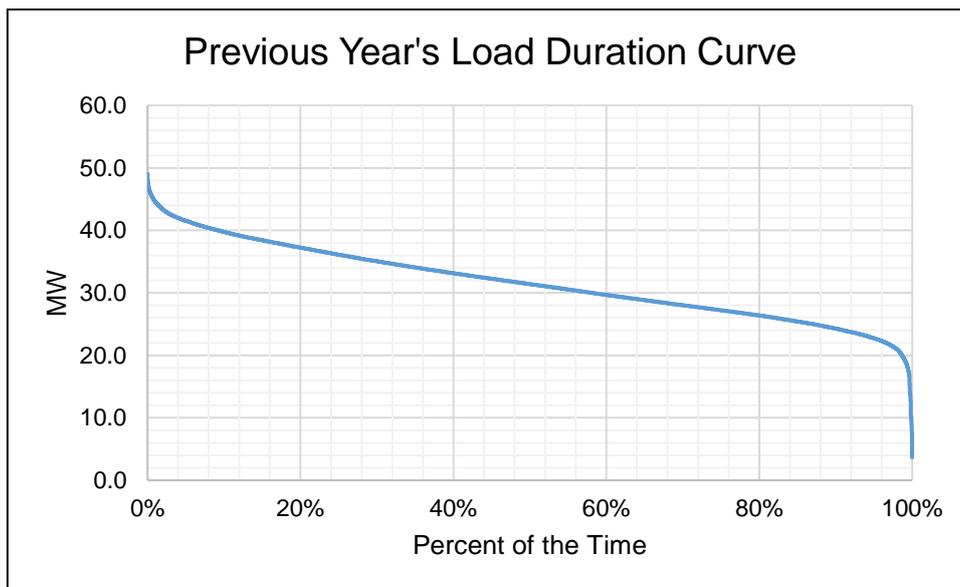


For 2020, the total Offtake for the last historical year is higher than the quantity stipulated in the PSA. The PSA with 2007-121RC accounts for the bulk of MWh Offtake.

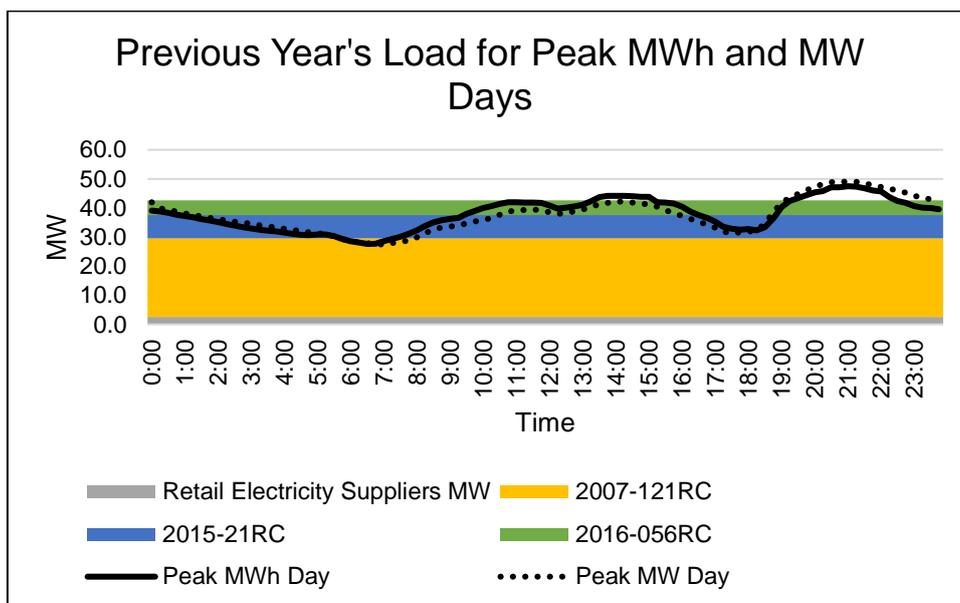


WESM Offtake increased from 8,276 MWh in 2011 to 30,098 MWh in 2020 at an annual average growth rate of 2.24% due to an increase in energy. The share of WESM in the total Offtake ranged from 5% to 55%. Note: LUELCO became a WESM member in 2011.

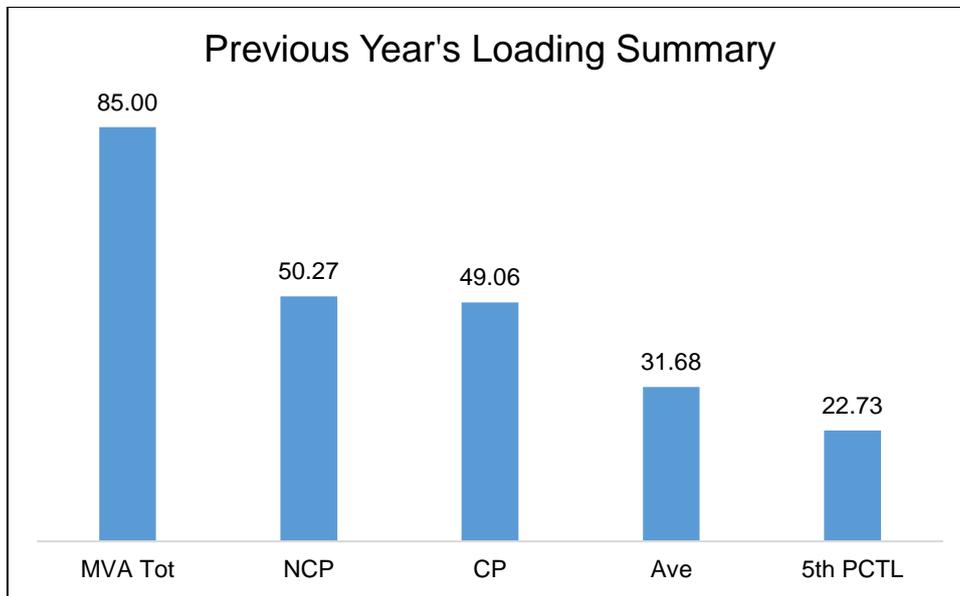
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 21.56 MW and the maximum load is 50.43 MW for the last historical year.



Peak MW occurred on hours 20:00 to 21:00 due to peak usage of residential customers. Peak daily MWh occurred at the hour 20:00 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 50.27 MW, which is around 59.14% of the total substation capacity of 85 MVA at a power factor of 98%. The load factor or the ratio between the Average Load of 31.68 MW and the Non-coincident Peak Demand is 63%. A safe estimate of the true minimum load is the fifth percentile load of 22.73 MW which is 45.21% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
MF3MBAULUEL01	50	28.04
MF3MBAULUEL02	10	5.53
MF3MBCNLUEL03	25	16.70

There are no substations loaded at above 70% as of 2020.

Forecasted Consumption Data

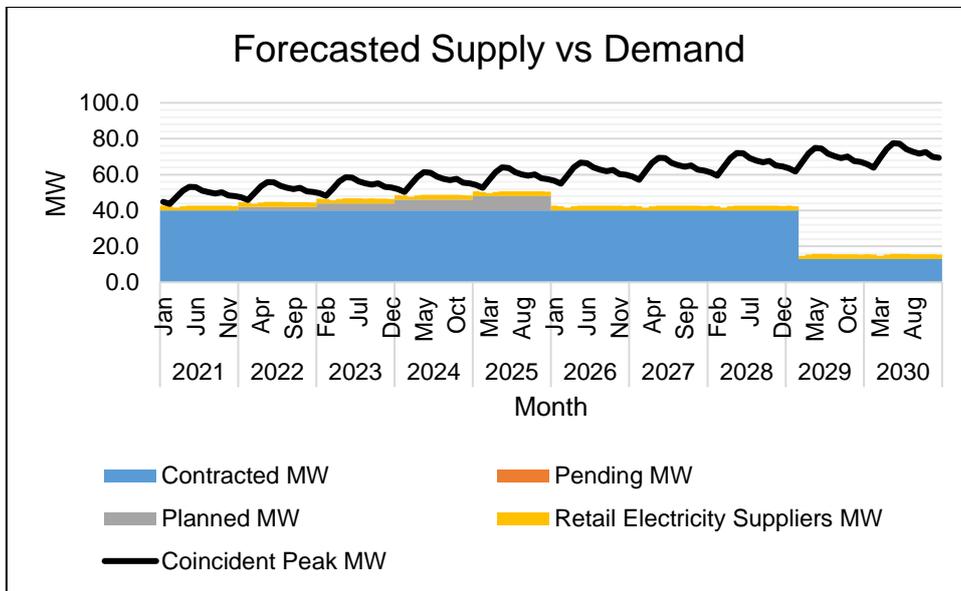
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2021	Jan	44.78	40.00	0.00	0.000	2.62	95%	95%	-2.16
	Feb	43.65	40.00	0.00	0.000	2.37	97%	97%	-1.28
	Mar	47.31	40.00	0.00	0.000	1.69	88%	88%	-5.61
	Apr	50.96	40.00	0.00	0.000	2.37	82%	82%	-8.60
	May	53.17	40.00	0.00	0.000	2.75	79%	79%	-10.41
	Jun	53.01	40.00	0.00	0.000	2.73	80%	80%	-10.27
	Jul	51.08	40.00	0.00	0.000	2.75	83%	83%	-8.32
	Aug	50.13	40.00	0.00	0.000	2.68	84%	84%	-7.45
	Sep	49.48	40.00	0.00	0.000	2.70	85%	85%	-6.78
	Oct	50.10	40.00	0.00	0.000	2.67	84%	84%	-7.43
	Nov	48.37	40.00	0.00	0.000	2.62	87%	87%	-5.75
	Dec	48.03	40.00	0.00	0.000	2.45	88%	88%	-5.58
2022	Jan	47.24	40.00	0.00	2.000	2.62	90%	94%	-2.62
	Feb	45.90	40.00	0.00	2.000	2.37	92%	96%	-1.53
	Mar	49.73	40.00	0.00	2.000	1.69	83%	87%	-6.04
	Apr	53.57	40.00	0.00	2.000	2.37	78%	82%	-9.20
	May	55.87	40.00	0.00	2.000	2.75	75%	79%	-11.12
	Jun	55.69	40.00	0.00	2.000	2.73	76%	79%	-10.96
	Jul	53.65	40.00	0.00	2.000	2.75	79%	83%	-8.90
	Aug	52.64	40.00	0.00	2.000	2.68	80%	84%	-7.97
	Sep	51.96	40.00	0.00	2.000	2.70	81%	85%	-7.26
	Oct	52.60	40.00	0.00	2.000	2.67	80%	84%	-7.93
	Nov	50.76	40.00	0.00	2.000	2.62	83%	87%	-6.15
	Dec	50.40	40.00	0.00	2.000	2.45	83%	88%	-5.95
2023	Jan	49.56	40.00	0.00	4.000	2.62	85%	94%	-2.94
	Feb	48.15	40.00	0.00	4.000	2.37	87%	96%	-1.77
	Mar	52.16	40.00	0.00	4.000	1.69	79%	87%	-6.47
	Apr	56.17	40.00	0.00	4.000	2.37	74%	82%	-9.80

	May	58.58	40.00	0.00	4.000	2.75	72%	79%	-11.82
	Jun	58.37	40.00	0.00	4.000	2.73	72%	79%	-11.64
	Jul	56.23	40.00	0.00	4.000	2.75	75%	82%	-9.47
	Aug	55.16	40.00	0.00	4.000	2.68	76%	84%	-8.48
	Sep	54.43	40.00	0.00	4.000	2.70	77%	85%	-7.73
	Oct	55.09	40.00	0.00	4.000	2.67	76%	84%	-8.42
	Nov	53.16	40.00	0.00	4.000	2.62	79%	87%	-6.55
	Dec	52.77	40.00	0.00	4.000	2.45	79%	87%	-6.32
2024	Jan	51.88	40.00	0.00	6.000	2.62	81%	93%	-3.26
	Feb	50.39	40.00	0.00	6.000	2.37	83%	96%	-2.02
	Mar	54.58	40.00	0.00	6.000	1.69	76%	87%	-6.89
	Apr	58.77	40.00	0.00	6.000	2.37	71%	82%	-10.40
	May	61.28	40.00	0.00	6.000	2.75	68%	79%	-12.52
	Jun	61.06	40.00	0.00	6.000	2.73	69%	79%	-12.32
	Jul	58.80	40.00	0.00	6.000	2.75	71%	82%	-10.05
	Aug	57.68	40.00	0.00	6.000	2.68	73%	84%	-9.00
	Sep	56.90	40.00	0.00	6.000	2.70	74%	85%	-8.21
	Oct	57.59	40.00	0.00	6.000	2.67	73%	84%	-8.92
	Nov	55.56	40.00	0.00	6.000	2.62	76%	87%	-6.94
	Dec	55.15	40.00	0.00	6.000	2.45	76%	87%	-6.69
2025	Jan	54.21	40.00	0.00	8.000	2.62	78%	93%	-3.59
	Feb	52.64	40.00	0.00	8.000	2.37	80%	95%	-2.27
	Mar	57.01	40.00	0.00	8.000	1.69	72%	87%	-7.32
	Apr	61.37	40.00	0.00	8.000	2.37	68%	81%	-11.01
	May	63.98	40.00	0.00	8.000	2.75	65%	78%	-13.23
	Jun	63.74	40.00	0.00	8.000	2.73	66%	79%	-13.01
	Jul	61.38	40.00	0.00	8.000	2.75	68%	82%	-10.62
	Aug	60.19	40.00	0.00	8.000	2.68	70%	83%	-9.52
	Sep	59.38	40.00	0.00	8.000	2.70	71%	85%	-8.68
	Oct	60.08	40.00	0.00	8.000	2.67	70%	84%	-9.41
	Nov	57.96	40.00	0.00	8.000	2.62	72%	87%	-7.34
	Dec	57.52	40.00	0.00	8.000	2.45	73%	87%	-7.07
2026	Jan	56.53	40.00	0.00	0.000	2.62	74%	74%	-13.91

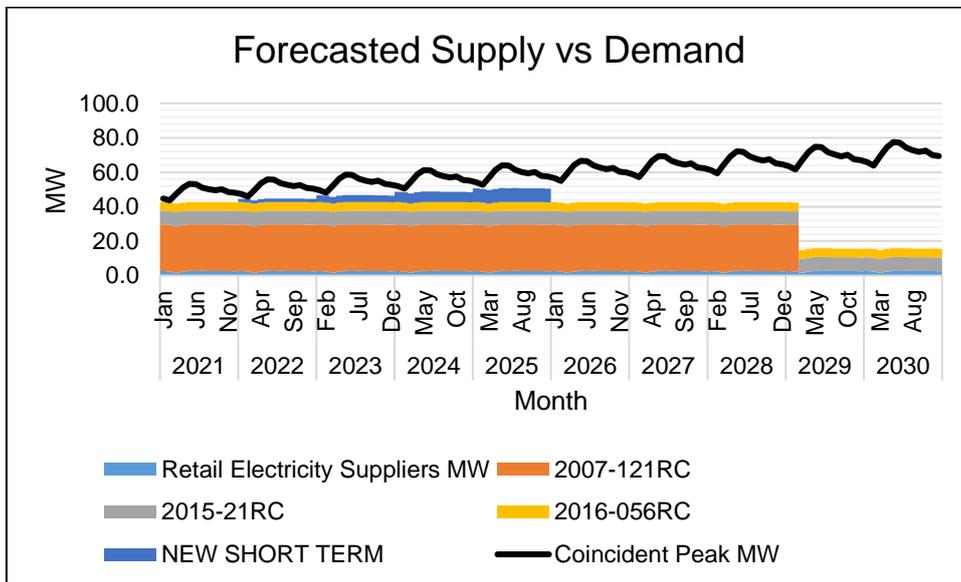
	Feb	54.89	40.00	0.00	0.000	2.37	76%	76%	-12.52
	Mar	59.43	40.00	0.00	0.000	1.69	69%	69%	-17.74
	Apr	63.98	40.00	0.00	0.000	2.37	65%	65%	-21.61
	May	66.69	40.00	0.00	0.000	2.75	63%	63%	-23.93
	Jun	66.43	40.00	0.00	0.000	2.73	63%	63%	-23.69
	Jul	63.95	40.00	0.00	0.000	2.75	65%	65%	-21.20
	Aug	62.71	40.00	0.00	0.000	2.68	67%	67%	-20.03
	Sep	61.85	40.00	0.00	0.000	2.70	68%	68%	-19.16
	Oct	62.58	40.00	0.00	0.000	2.67	67%	67%	-19.91
	Nov	60.36	40.00	0.00	0.000	2.62	69%	69%	-17.74
	Dec	59.89	40.00	0.00	0.000	2.45	70%	70%	-17.44
2027	Jan	58.85	40.00	0.00	0.000	2.62	71%	71%	-16.23
	Feb	57.14	40.00	0.00	0.000	2.37	73%	73%	-14.77
	Mar	61.86	40.00	0.00	0.000	1.69	66%	66%	-20.17
	Apr	66.58	40.00	0.00	0.000	2.37	62%	62%	-24.21
	May	69.39	40.00	0.00	0.000	2.75	60%	60%	-26.63
	Jun	69.11	40.00	0.00	0.000	2.73	60%	60%	-26.38
	Jul	66.53	40.00	0.00	0.000	2.75	63%	63%	-23.77
	Aug	65.23	40.00	0.00	0.000	2.68	64%	64%	-22.55
	Sep	64.33	40.00	0.00	0.000	2.70	65%	65%	-21.63
	Oct	65.07	40.00	0.00	0.000	2.67	64%	64%	-22.40
	Nov	62.76	40.00	0.00	0.000	2.62	67%	67%	-20.14
	Dec	62.26	40.00	0.00	0.000	2.45	67%	67%	-19.81
2028	Jan	61.18	40.00	0.00	0.000	2.62	68%	68%	-18.56
	Feb	59.39	40.00	0.00	0.000	2.37	70%	70%	-17.01
	Mar	64.29	40.00	0.00	0.000	1.69	64%	64%	-22.60
	Apr	69.18	40.00	0.00	0.000	2.37	60%	60%	-26.81
	May	72.09	40.00	0.00	0.000	2.75	58%	58%	-29.34
	Jun	71.79	40.00	0.00	0.000	2.73	58%	58%	-29.06
	Jul	69.10	40.00	0.00	0.000	2.75	60%	60%	-26.35
	Aug	67.75	40.00	0.00	0.000	2.68	61%	61%	-25.07
	Sep	66.80	40.00	0.00	0.000	2.70	62%	62%	-24.10
	Oct	67.57	40.00	0.00	0.000	2.67	62%	62%	-24.90

	Nov	65.15	40.00	0.00	0.000	2.62	64%	64%	-22.54
	Dec	64.63	40.00	0.00	0.000	2.45	64%	64%	-22.18
2029	Jan	63.50	40.00	0.00	0.000	2.62	66%	66%	-20.88
	Feb	61.64	40.00	0.00	0.000	2.37	67%	67%	-19.26
	Mar	66.71	13.00	0.00	0.000	1.69	20%	20%	-52.02
	Apr	71.78	13.00	0.00	0.000	2.37	19%	19%	-56.42
	May	74.80	13.00	0.00	0.000	2.75	18%	18%	-59.04
	Jun	74.48	13.00	0.00	0.000	2.73	18%	18%	-58.74
	Jul	71.68	13.00	0.00	0.000	2.75	19%	19%	-55.93
	Aug	70.26	13.00	0.00	0.000	2.68	19%	19%	-54.59
	Sep	69.28	13.00	0.00	0.000	2.70	20%	20%	-53.58
	Oct	70.06	13.00	0.00	0.000	2.67	19%	19%	-54.39
	Nov	67.55	13.00	0.00	0.000	2.62	20%	20%	-51.94
	Dec	67.01	13.00	0.00	0.000	2.45	20%	20%	-51.55
2030	Jan	65.82	13.00	0.00	0.000	2.62	21%	21%	-50.20
	Feb	63.88	13.00	0.00	0.000	2.37	21%	21%	-48.51
	Mar	69.14	13.00	0.00	0.000	1.69	19%	19%	-54.45
	Apr	74.39	13.00	0.00	0.000	2.37	18%	18%	-59.02
	May	77.50	13.00	0.00	0.000	2.75	17%	17%	-61.74
	Jun	77.16	13.00	0.00	0.000	2.73	17%	17%	-61.43
	Jul	74.25	13.00	0.00	0.000	2.75	18%	18%	-58.50
	Aug	72.78	13.00	0.00	0.000	2.68	19%	19%	-57.10
	Sep	71.75	13.00	0.00	0.000	2.70	19%	19%	-56.05
	Oct	72.56	13.00	0.00	0.000	2.67	19%	19%	-56.88
	Nov	69.95	13.00	0.00	0.000	2.62	19%	19%	-54.33
	Dec	69.38	13.00	0.00	0.000	2.45	19%	19%	-53.93

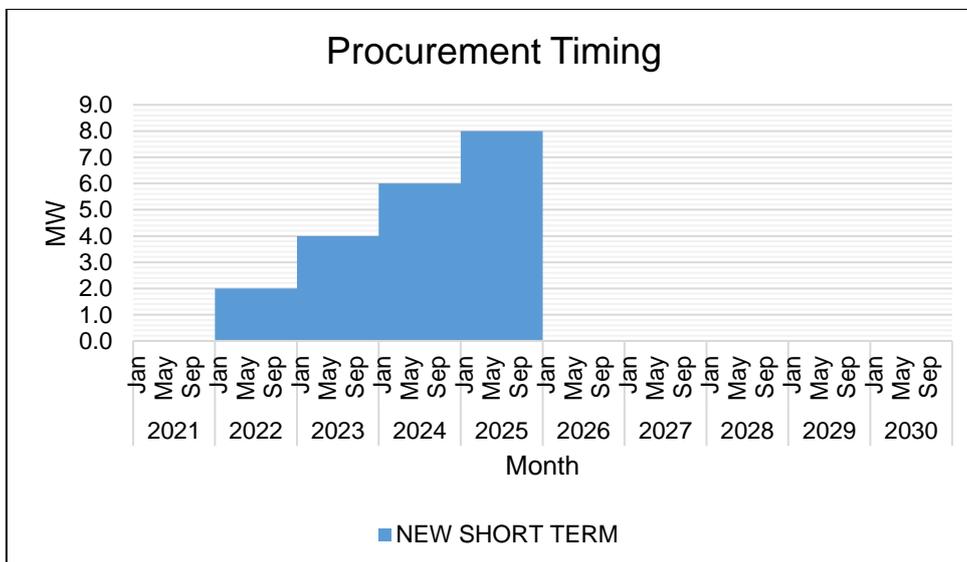
The Peak Demand was forecasted using the Short-term Forecasting Method and was assumed to occur in May and June due to the summer season. Monthly Peak Demand is at its lowest in January to February due to low demand or usage of energy (due to colder months). In general, Peak Demand is expected to grow at a rate of 4.28% annually.



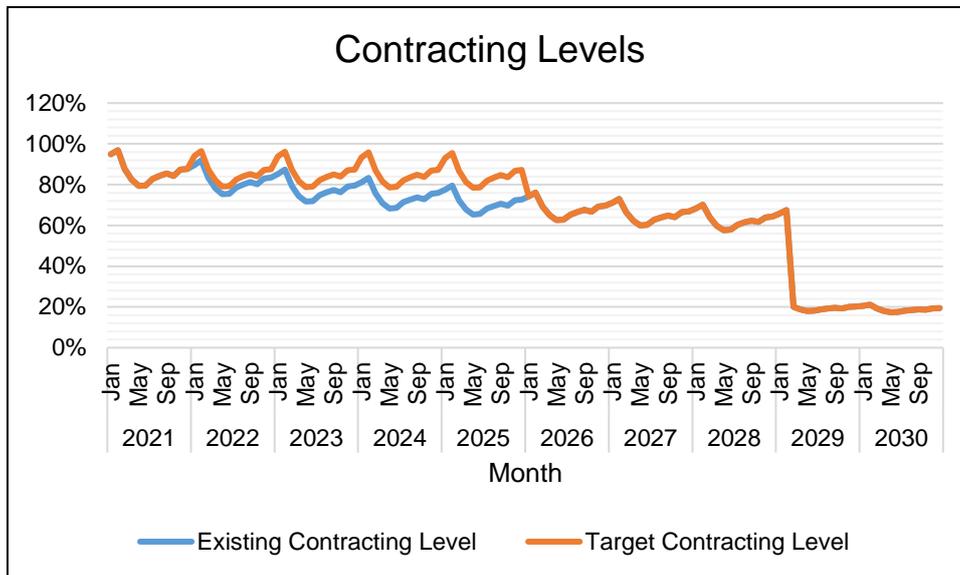
The available supply is generally below the Peak Demand. This is because of the growing demand and number of customers annually.



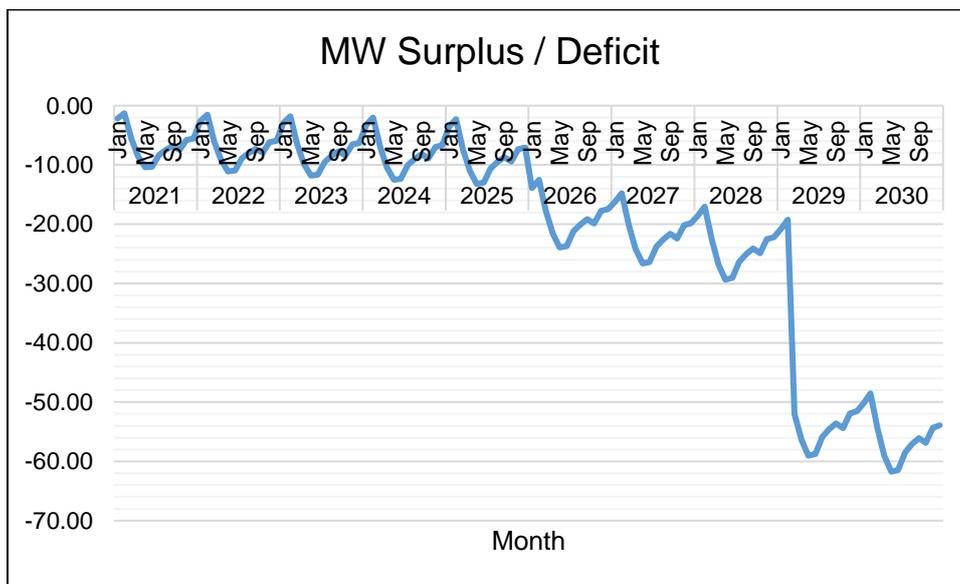
Of the available supply, the largest is 27 MW from 2007-121RC (GMCP). This is followed by 8 MW from 2015-211RC (MPPCL-SMC). And lastly, 5 MW from 2016-056RC (GNPD).



The first wave of supply procurement will be for 2 MW planned to be available by December 26, 2021 to December 25, 2022 for the first short-term. This will be followed by 4 MW from December 26, 2022 to December 25, 2023. Then, 6 MW from December 26, 2023 to December 25, 2024. And will be followed by 8 MW from December 26, 2024 to December 25, 2025.



The highest target contracting level is 97% which is expected to occur in February 2021. The lowest target contracting level is 17% which is expected to occur in May and June 2030.



Currently, there is under-contracting by 10.27 MW. The highest deficit is 61.74 MW which is expected to occur in the month of May 2030. The lowest deficit is 1.28 MW which is expected to occur in the month of February 2021.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2021	Jan	21,914	20,828	2,917	-8.36%	12.29%
	Feb	20,781	19,749	3,124	-10.07%	13.66%
	Mar	21,174	19,727	3,389	-9.17%	14.66%
	Apr	25,304	24,336	3,668	-10.67%	13.10%
	May	26,206	25,222	3,857	-10.97%	13.26%

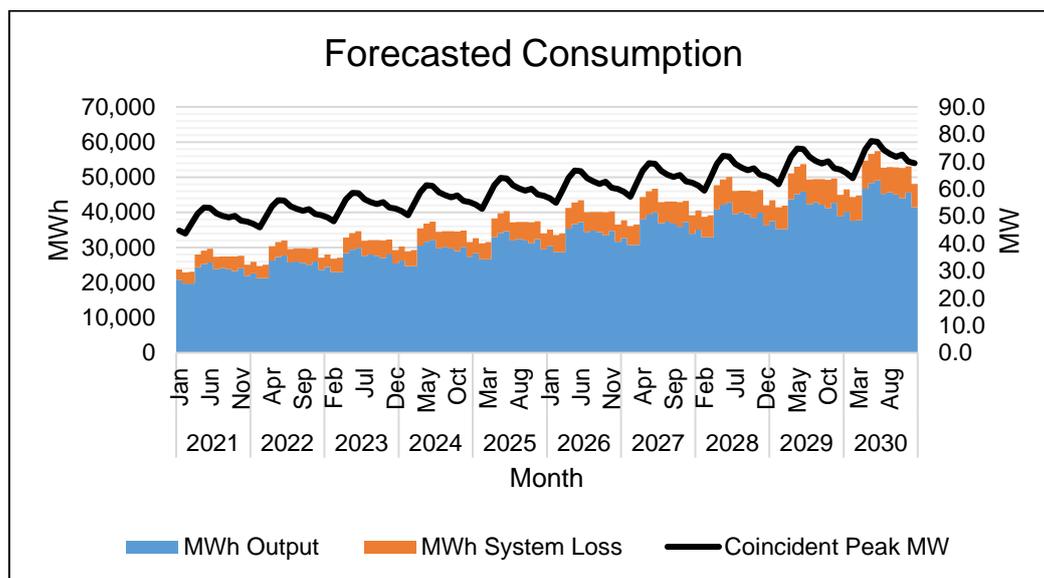
	Jun	26,348	25,686	3,903	-12.30%	13.19%
	Jul	24,420	23,836	3,509	-11.98%	12.83%
	Aug	24,489	24,129	3,353	-12.22%	12.20%
	Sep	24,294	23,784	3,682	-13.06%	13.41%
	Oct	24,023	23,235	4,162	-14.04%	15.19%
	Nov	24,519	24,078	3,534	-12.62%	12.80%
	Dec	23,114	21,921	3,133	-8.39%	12.50%
2022	Jan	24,602	22,639	3,235	-5.17%	12.50%
	Feb	23,401	21,294	3,462	-5.79%	13.98%
	Mar	23,667	21,280	3,752	-5.77%	14.99%
	Apr	28,159	26,268	4,064	-7.71%	13.40%
	May	29,055	27,215	4,270	-8.37%	13.56%
	Jun	29,247	27,699	4,320	-9.47%	13.49%
	Jul	27,162	25,683	3,881	-8.85%	13.13%
	Aug	27,277	25,997	3,706	-8.90%	12.48%
	Sep	27,066	25,628	4,068	-9.72%	13.70%
	Oct	26,727	25,032	4,594	-10.85%	15.51%
	Nov	27,291	25,949	3,901	-9.38%	13.07%
	Dec	25,759	23,627	3,456	-5.14%	12.76%
2023	Jan	27,290	24,408	3,568	-2.52%	12.75%
	Feb	26,022	22,949	3,815	-2.85%	14.26%
	Mar	26,160	22,944	4,129	-3.49%	15.25%
	Apr	31,014	28,339	4,480	-5.82%	13.65%
	May	31,905	29,352	4,704	-6.74%	13.81%
	Jun	32,146	29,856	4,759	-7.68%	13.75%
	Jul	29,904	27,663	4,271	-6.79%	13.37%
	Aug	30,065	27,998	4,077	-6.69%	12.71%
	Sep	29,838	27,601	4,471	-7.49%	13.94%
	Oct	29,431	26,956	5,044	-8.73%	15.76%
	Nov	30,063	27,950	4,286	-7.23%	13.29%
	Dec	28,405	25,448	3,795	-2.95%	12.98%
2024	Jan	29,979	26,297	3,917	-0.78%	12.96%
	Feb	28,644	24,716	4,183	-0.89%	14.48%
	Mar	28,798	24,719	4,519	-1.53%	15.46%
	Apr	33,870	30,549	4,917	-4.71%	13.87%
	May	34,755	31,633	5,158	-5.86%	14.02%
	Jun	35,046	32,159	5,219	-6.65%	13.96%
	Jul	32,646	29,775	4,678	-5.53%	13.58%
	Aug	32,853	30,132	4,465	-5.31%	12.91%
	Sep	32,610	29,704	4,891	-6.09%	14.14%
	Oct	32,136	29,005	5,511	-7.41%	15.97%
	Nov	32,836	30,080	4,688	-5.88%	13.48%
	Dec	31,051	27,385	4,150	-1.56%	13.16%
2025	Jan	32,667	28,306	4,281	0.25%	13.14%
	Feb	31,265	26,593	4,566	0.34%	14.65%
	Mar	31,148	26,605	4,923	-1.22%	15.61%
	Apr	36,725	32,898	5,376	-4.22%	14.05%
	May	37,605	34,058	5,632	-5.55%	14.19%
	Jun	37,945	34,607	5,700	-6.23%	14.14%

	Jul	35,388	32,019	5,103	-4.90%	13.75%
	Aug	35,641	32,398	4,871	-4.57%	13.07%
	Sep	35,382	31,936	5,329	-5.32%	14.30%
	Oct	34,839	31,179	5,996	-6.70%	16.13%
	Nov	35,608	32,340	5,108	-5.17%	13.64%
	Dec	33,696	29,438	4,520	-0.78%	13.31%
2026	Jan	27,916	30,434	4,661	-25.71%	13.28%
	Feb	26,447	28,581	4,964	-26.84%	14.80%
	Mar	26,922	28,603	5,339	-26.08%	15.73%
	Apr	32,141	35,386	5,855	-28.31%	14.20%
	May	33,255	36,626	6,127	-28.56%	14.33%
	Jun	33,405	37,200	6,203	-29.93%	14.29%
	Jul	30,931	34,396	5,546	-29.13%	13.89%
	Aug	30,990	34,797	5,293	-29.37%	13.20%
	Sep	30,715	34,299	5,784	-30.50%	14.43%
	Oct	30,344	33,478	6,498	-31.74%	16.25%
	Nov	30,941	34,729	5,546	-30.16%	13.77%
	Dec	29,143	31,607	4,905	-25.29%	13.43%
2027	Jan	29,117	32,681	5,056	-29.61%	13.40%
	Feb	27,580	30,681	5,377	-30.74%	14.91%
	Mar	28,071	30,711	5,768	-29.95%	15.81%
	Apr	33,509	38,014	6,354	-32.41%	14.32%
	May	34,665	39,338	6,642	-32.64%	14.45%
	Jun	34,815	39,937	6,728	-34.04%	14.42%
	Jul	32,233	36,904	6,007	-33.13%	14.00%
	Aug	32,289	37,329	5,733	-33.36%	13.31%
	Sep	31,998	36,790	6,256	-34.53%	14.53%
	Oct	31,608	35,903	7,018	-35.79%	16.35%
	Nov	32,226	37,247	6,001	-34.20%	13.88%
	Dec	30,348	33,892	5,307	-29.16%	13.54%
2028	Jan	30,318	35,048	5,467	-33.63%	13.49%
	Feb	28,714	32,891	5,804	-34.76%	15.00%
	Mar	29,221	32,931	6,211	-33.95%	15.87%
	Apr	34,877	40,780	6,875	-36.64%	14.43%
	May	36,075	42,195	7,178	-36.86%	14.54%
	Jun	36,227	42,820	7,273	-38.28%	14.52%
	Jul	33,535	39,545	6,485	-37.26%	14.09%
	Aug	33,590	39,993	6,190	-37.49%	13.40%
	Sep	33,283	39,411	6,745	-38.68%	14.61%
	Oct	32,873	38,453	7,555	-39.96%	16.42%
	Nov	33,511	39,895	6,474	-38.37%	13.96%
	Dec	31,554	36,293	5,723	-33.15%	13.62%
2029	Jan	31,518	37,534	5,893	-37.79%	13.57%
	Feb	29,847	35,212	6,246	-38.90%	15.07%
	Mar	16,835	35,261	6,666	-149.04%	15.90%
	Apr	19,306	43,686	7,416	-164.70%	14.51%
	May	20,240	45,195	7,734	-161.50%	14.61%
	Jun	19,922	45,848	7,841	-169.49%	14.60%
	Jul	18,813	42,318	6,981	-162.05%	14.16%

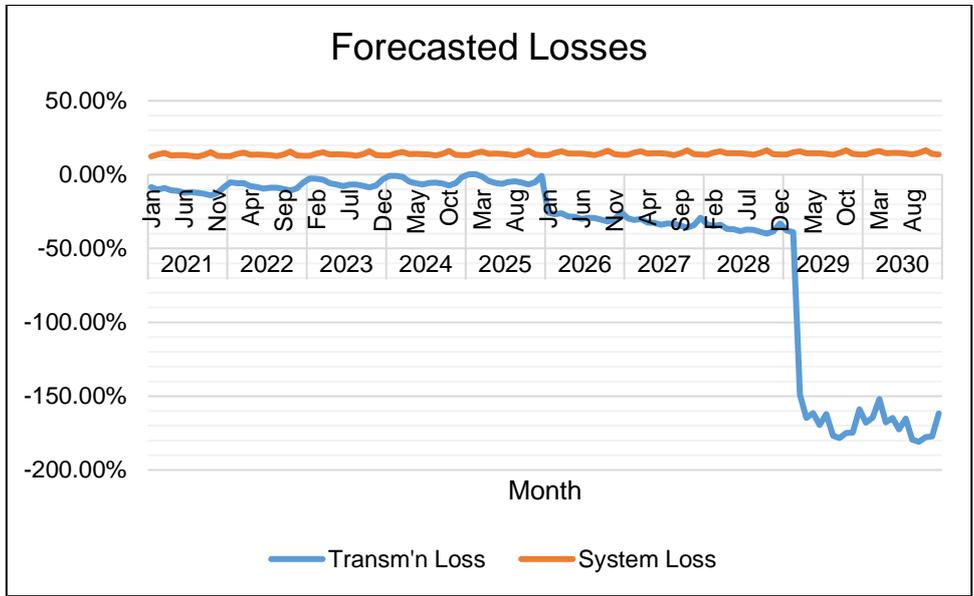
	Aug	17,857	42,790	6,664	-176.94%	13.47%
	Sep	17,755	42,162	7,251	-178.31%	14.67%
	Oct	17,908	41,129	8,109	-174.95%	16.47%
	Nov	18,077	42,672	6,964	-174.59%	14.03%
	Dec	17,372	38,809	6,155	-158.83%	13.69%
2030	Jan	17,346	40,140	6,335	-167.93%	13.63%
	Feb	16,764	37,644	6,703	-164.53%	15.12%
	Mar	17,793	37,703	7,135	-152.00%	15.91%
	Apr	20,433	46,731	7,979	-167.75%	14.58%
	May	21,406	48,338	8,310	-164.64%	14.67%
	Jun	21,082	49,020	8,429	-172.50%	14.67%
	Jul	19,889	45,223	7,495	-165.06%	14.22%
	Aug	18,917	45,720	7,155	-179.51%	13.53%
	Sep	18,802	45,043	7,775	-180.92%	14.72%
	Oct	18,943	43,930	8,682	-177.73%	16.50%
	Nov	19,126	45,579	7,472	-177.37%	14.09%
	Dec	18,362	41,442	6,603	-161.66%	13.74%

MWh Offtake was forecasted using Short Term Forecasting.

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 7.42% annually.



Transmission Loss is expected to range from -8.36% in 2021 to -38.9% in February 2029, the Loss became -149.04% starting in March 2029 because of LUELCO's end contract with GN Power Mariveles Coal Plant (GMCP). While System Loss is expected to range from 12.29% in January 2021 to 13.74% in December 2030.

Power Supply

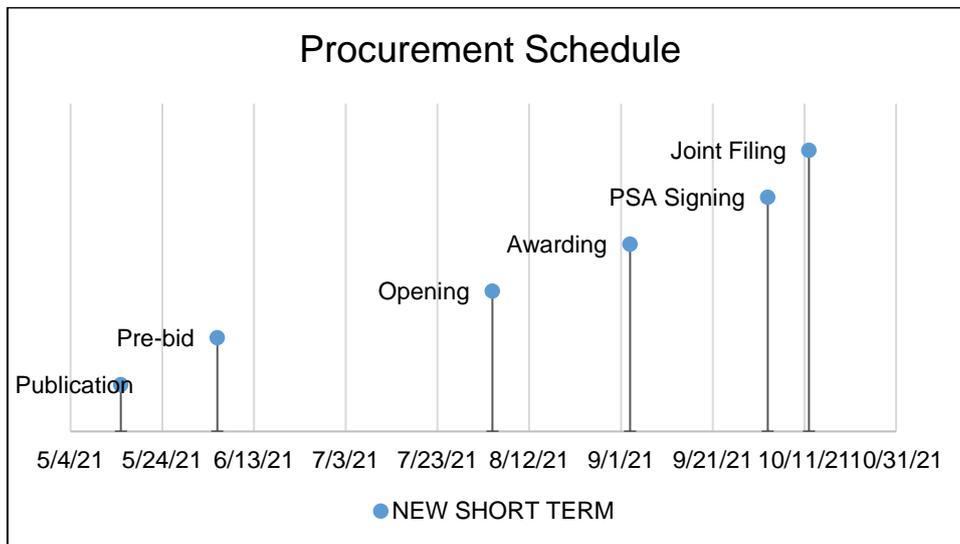
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2007-121RC	Base	GN Power Mariveles Coal Plant Ltd.	27.00	236,520	02/26/2014	02/25/2029
2015-211RC	Base	Masinloc Power Partners Company, Ltd.	8.00	70,080	12/26/2018	12/25/2038
2016-056RC	Base	GN Power Dinginin	5.00	43,800	12/26/2019	12/25/2039

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 69.66% in 2020. Outages of the plant led to the unserved energy in the past year. The actual billed overall monthly charge under the PSA ranged from 4.73 Php/kWh to 5.72 Php/kWh in 2020.

The Power Supply Agreement (PSA) with the Masinloc Power Partners Company, Ltd. filed with the ERC under Case No. 2015-211RC was procured through a Competitive Selection Process (CSP) of RECA 1 + CAR ECs Aggregation Group. It was selected being the lowest calculated responsive bid/offer to provide for the base requirements of the group due to baseload deficits. Historically, the utilization of the PSA is at an average of 70.48% in 2020. The actual billed overall monthly charge under the PSA ranged from 5.25 Php/kWh to 5.62 Php/kWh in 2020.

The Power Supply Agreement (PSA) with the GN Power Dinginin filed with the ERC under Case No. 2016-056RC was procured through a Competitive Selection Process (CSP) in reference to the CSP of R1+CAR Aggregation Group. It was selected being the lowest calculated responsive bid/offer to provide for the base requirements of the group due to baseload deficits. Historically, the utilization of the PSA is at an average of 56.10% in 2020. The actual billed overall monthly charge under the PSA ranged from 5.08 Php/kWh to 6.06 Php/kWh in 2020.

	NEW SHORT TERM
Type	Base
Minimum MW	2.00
Minimum MWh/yr	17,520
PSA Start	12/26/2021
PSA End	12/25/2025
Publication	05/15/2021
Pre-bid	06/05/2021
Opening	08/04/2021
Awarding	09/03/2021
PSA Signing	10/3/2021
Joint Filing	10/12/2021



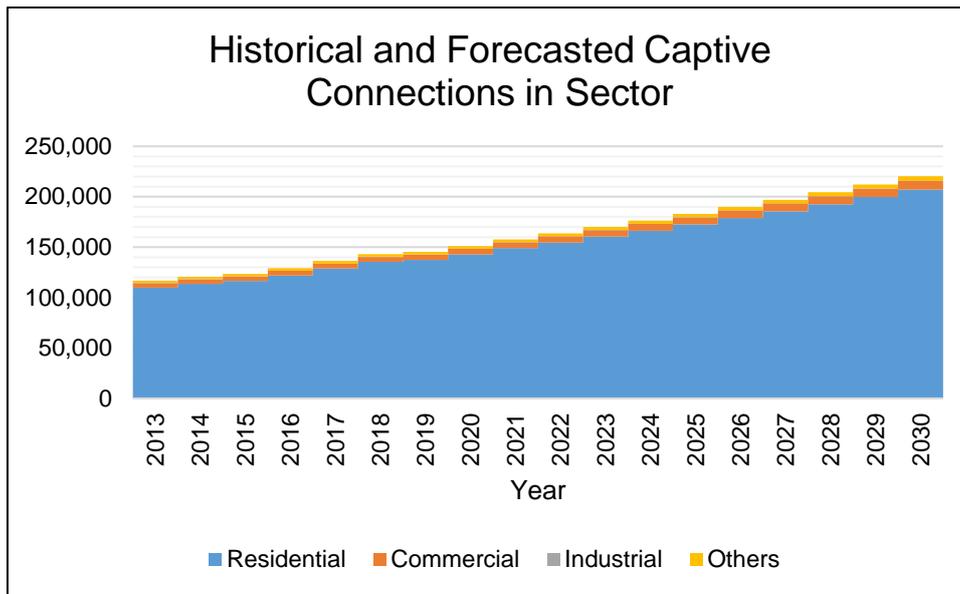
For the procurement of 2 MW of supply which is planned to be available on December 26, 2021, the first publication or launch of CSP will be on May 15, 2021. Joint filing is planned on October 12, 2021, or 150 days later, following DOE's 2018 Policy on CSP.

For the procurement of 4 MW of supply which is planned to be available on December 26, 2022, the first publication or launch of CSP will be on May 15, 2021. Joint filing is planned on October 12, 2021, or 150 days later, following DOE's 2018 Policy on CSP.

For the procurement of 6 MW of supply which is planned to be available on December 26, 2023, the first publication or launch of CSP will be on May 15, 2021. Joint filing is planned on October 12, 2021, or 150 days later, following DOE's 2018 Policy on CSP.

For the procurement of 8 MW of supply which is planned to be available on December 26, 2024, the first publication or launch of CSP will be on May 15, 2021. Joint filing is planned on October 12, 2021, or 150 days later, following DOE's 2018 Policy on CSP.

Captive Customer Connections



The number of residential connections is expected to grow at an average rate of 3.81% annually. Said customer class is expected to account for 94.32% of the total consumption.