

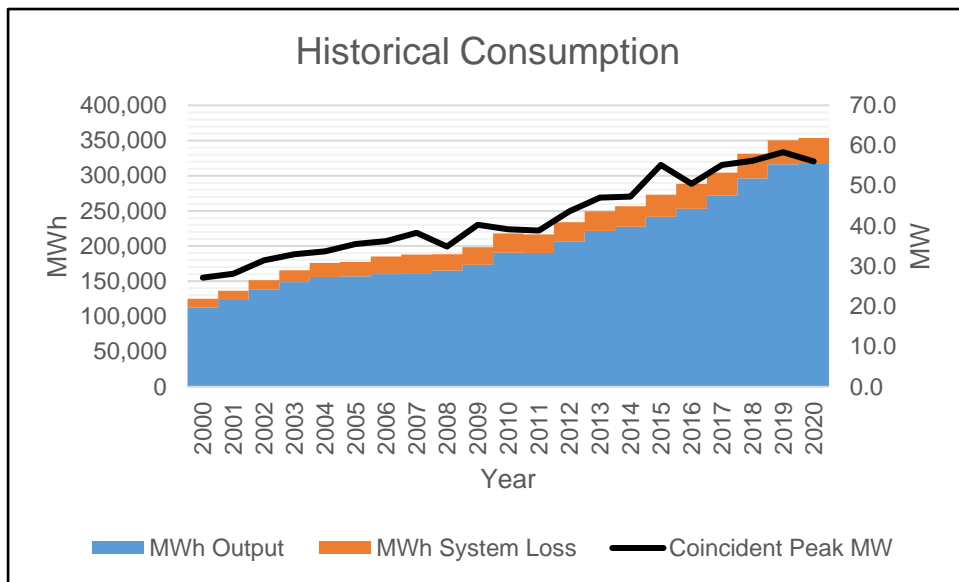
Power Supply Procurement Plan 2021

ILOCOS NORTE ELECTRIC COOPERATIVE, INC.

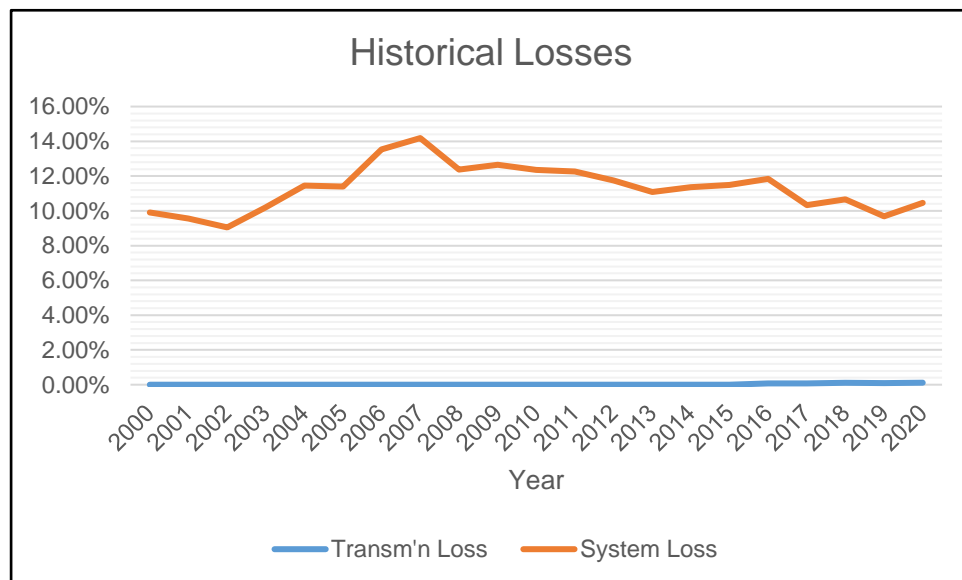
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	27.14	125,012	0	125,012	112,636	12,375	53%	0.00%	0.00%	9.90%
2001	28.14	136,387	0	136,387	123,345	13,043	55%	0.00%	0.00%	9.56%
2002	31.44	151,644	0	151,644	137,924	13,720	55%	0.00%	0.00%	9.05%
2003	32.97	165,706	0	165,706	148,791	16,915	57%	0.00%	0.00%	10.21%
2004	33.69	176,093	0	176,093	155,917	20,175	60%	0.00%	0.00%	11.46%
2005	35.49	177,307	0	177,307	157,092	20,214	57%	0.00%	0.00%	11.40%
2006	36.24	185,292	0	185,292	160,208	25,084	58%	0.00%	0.00%	13.54%
2007	38.32	188,039	0	188,039	161,363	26,677	56%	0.00%	0.00%	14.19%
2008	34.91	188,489	0	188,489	165,173	23,316	62%	0.00%	0.00%	12.37%
2009	40.28	198,520	0	198,520	173,390	25,130	56%	0.00%	0.00%	12.66%
2010	39.21	217,710	0	217,710	190,815	26,894	63%	0.00%	0.00%	12.35%
2011	38.85	216,563	0	216,563	190,023	26,540	64%	0.00%	0.00%	12.26%
2012	43.61	233,708	0	233,708	206,234	27,475	61%	0.00%	0.00%	11.76%
2013	47.04	249,135	0	249,135	221,524	27,611	60%	0.00%	0.00%	11.08%
2014	47.28	256,416	0	256,416	227,304	29,112	62%	0.00%	0.00%	11.35%
2015	55.15	272,908	0	272,908	241,537	31,371	56%	0.00%	0.00%	11.50%
2016	50.50	301,666	0	301,463	252,906	35,705	68%	-4.26%	0.07%	11.84%
2017	55.19	318,720	0	318,471	271,551	32,917	66%	-4.40%	0.08%	10.34%
2018	56.22	331,682	-35,139	331,326	295,972	35,354	67%	0.00%	0.11%	10.67%
2019	58.34	350,455	-63,474	350,132	316,225	33,907	69%	0.00%	0.09%	9.68%
2020	56.09	353,921	-50,930	353,514	316,521	36,993	72%	0.00%	0.12%	10.46%

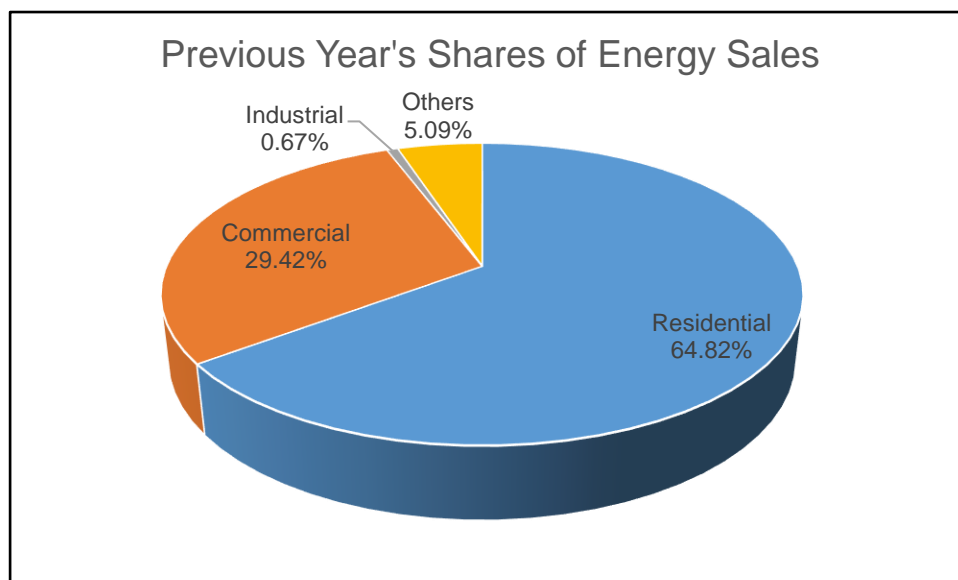
Peak Demand decreased from 58.34 MW in 2019 to 56.09 MW in 2020 at a rate of 3.77% due to all commercial establishments and public buildings was closed during lockdown caused by the pandemic last 2020. MWh Offtake increased from 350,455 MWh in 2019 to 353,921 MWh in 2020 at a rate of 0.99%. Within the same period, Load Factor ranged from 69% to 72%, because residential loads was increased during quarantine periods. There was slight increase in consumption on 2020 due to the experienced of pandemic.



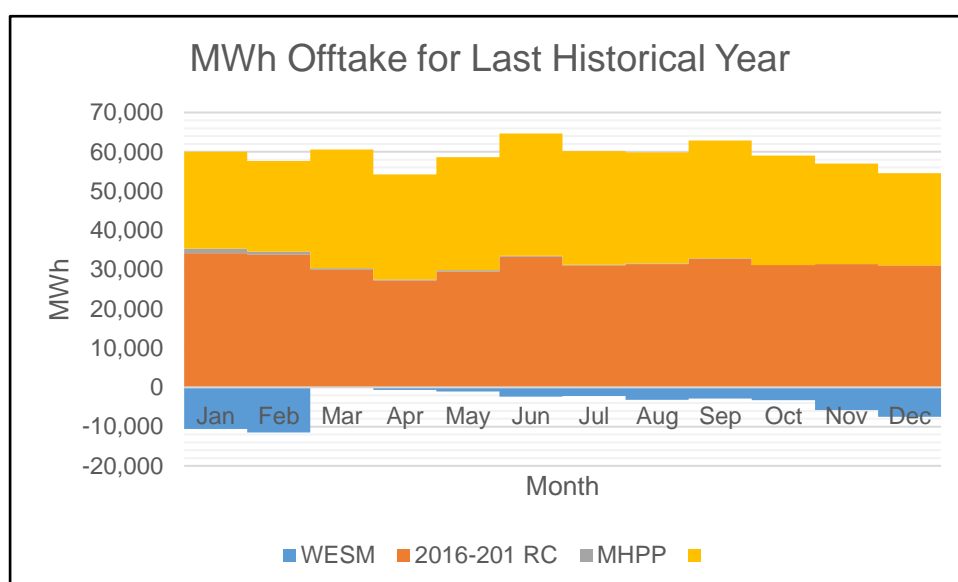
MWh Output increased from year 2019 to year 2020 at a rate of 0.09%, while MWh System Loss increased at a rate of 8.06% within the same period.



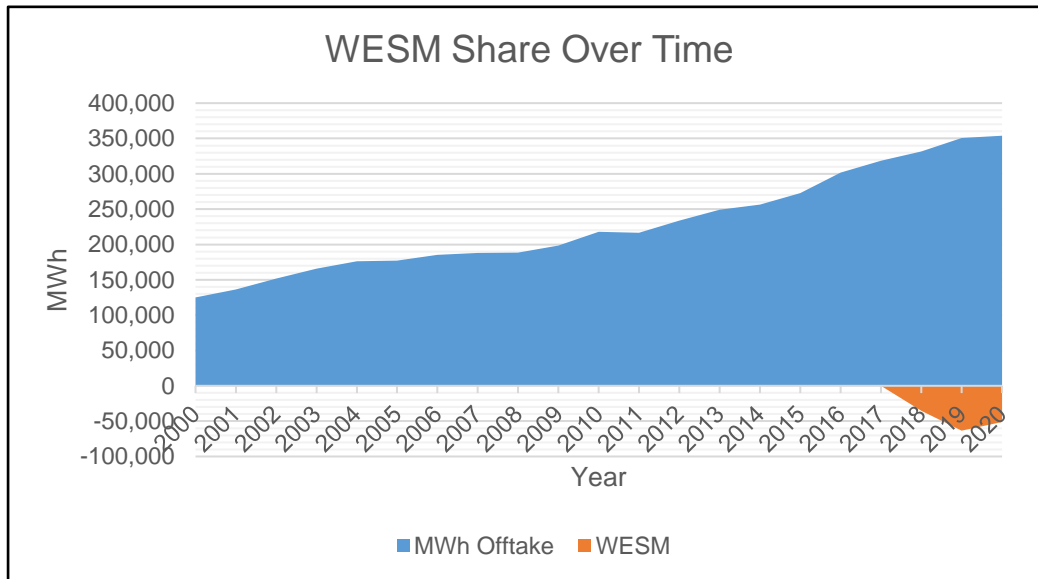
Historically, Transmission Loss ranged from 0.07% to 0.12% while System Loss ranged from 9.05% to 14.19%. Transmission Loss peaked at 0.12% on year 2020. System Loss peaked at 14.19% on year 2017.



Residential customers account for the bulk of energy sales at 64.82% due to the high number of connections and the trending usage of air-condition units in the households. In contrast, industrial customers accounted for only 0.70% of energy sales due to the low number of connections.

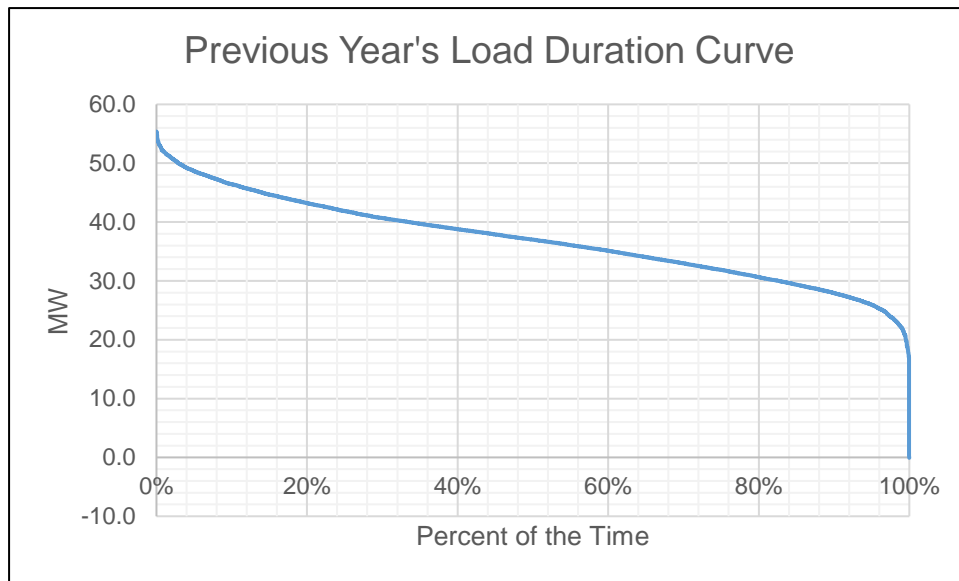


For 2020, the total Offtake for the last historical year is within the quantity stipulated in the PSA.
 The PSA with 70% to 100% Capacity Utilization Factor (CUF) accounts for the bulk of MWh Offtake.

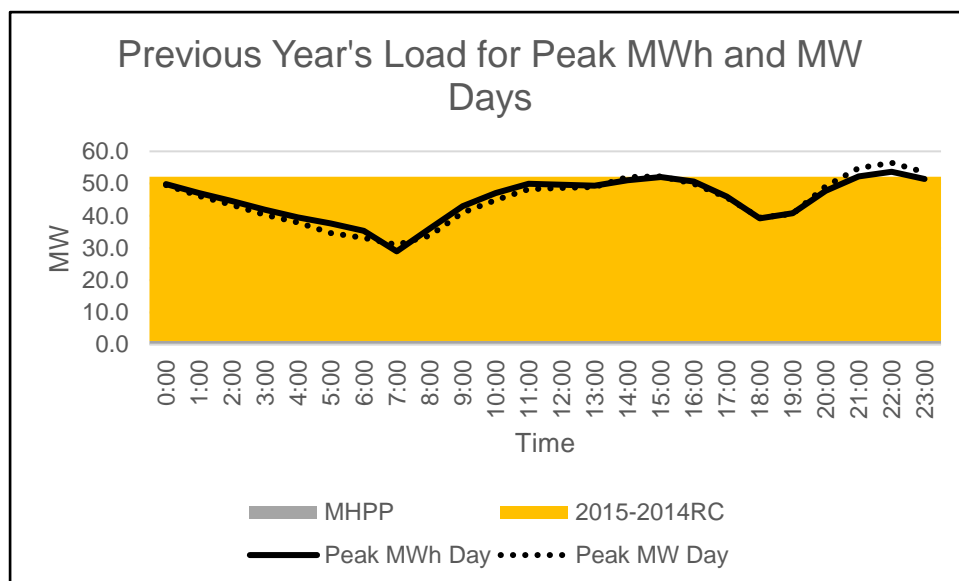


WESM Offtake decreased from 8,419 MWh in 2019 to 3,057 MWh in 2020 at a rate of 64% due to sufficient contracted capacity. The share of WESM in the total Offtake ranged from 1% to 10%. The net WESM transaction is negative from 63,474 MWh to 50,930 MWh because there was an excess energy during off-peak months.

Previous Year's Load Profile

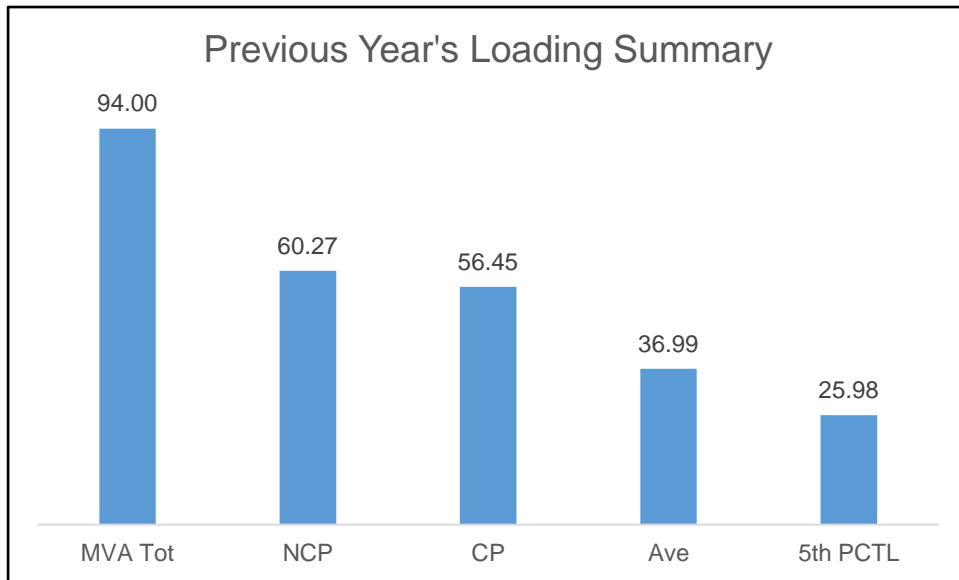


Based on the Load Duration Curve, the minimum load is 16.32 MW and the maximum load is 56.45 MW for the last historical year.



Peak MW occurs on hour 22 where the load consumption is high. Peak daily MWh also occurs on the same hour. This is when the usage electricity is greatest due to the usage of lighting and most of households open their TV sets, utilize their electric fans and air-condition units. This is due to the fact that residential connection makes up 85% of its total connection.

As shown in the Load Curve, the available supply is lower than the Peak Demand.



The Non-coincident Peak Demand is 60.27 MW, which is around 64.12% of the total substation capacity of 94 MVA at a power factor of 98.47%. The load factor or the ratio between the Average Load of 36.99 MW and the Non-coincident Peak Demand is 65.55% of. A safe estimate of the true minimum load is the fifth percentile load of 25.98 MW which is 43.12% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
MARTAN(MF3MLAOINEC01)	35	24.234
CURRIMAO(MF3MCURINEC03)	10	6.405
SAN NICOLAS (MF3MCURINEC04)	15	9.141
BATAC(MF3MCURINEC05)	10	6.585
BURGOS(MF3MLAOINEC06)	12	5.965
LAOAG 3(MF3MLAOINEC08)	10	6.516
MHPP	2	1.428

The substations loaded nearest to 70% are Batac and Martan. These loading problems will be solved by additional capacity in the respective areas.

Forecasted Consumption Data

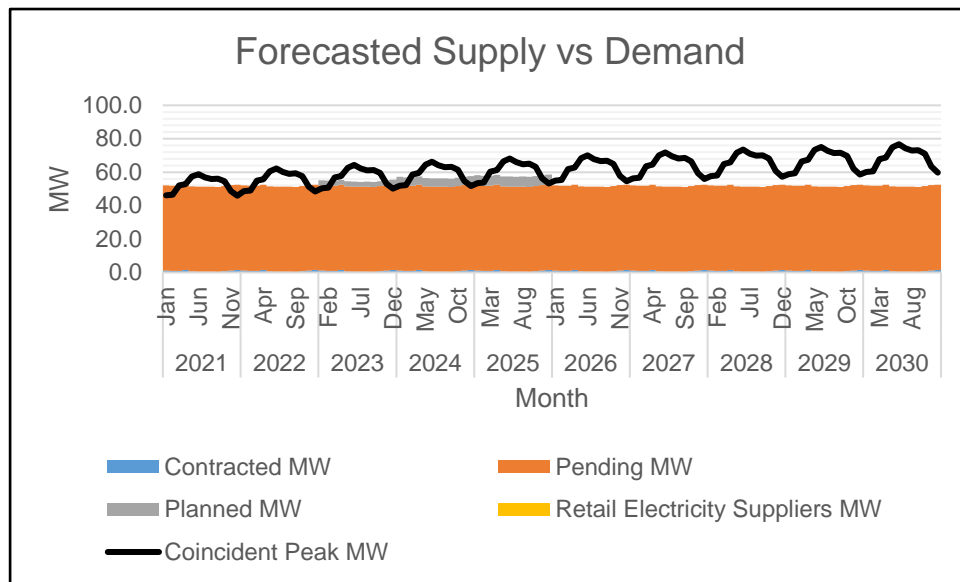
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2021	Jan	46.10	1.16	51.00	0.000		3%	113%	6.07
	Feb	46.44	0.89	51.00	0.000		2%	112%	5.45
	Mar	52.04	0.91	51.00	0.000		2%	100%	-0.13
	Apr	52.81	1.43	51.00	0.000		3%	99%	-0.38
	May	57.38	0.53	51.00	0.000		1%	90%	-5.85
	Jun	58.87	0.36	51.00	0.000		1%	87%	-7.51
	Jul	56.95	0.26	51.00	0.000		0%	90%	-5.68
	Aug	55.92	0.37	51.00	0.000		1%	92%	-4.54
	Sep	56.17	0.17	51.00	0.000		0%	91%	-5.00
	Oct	54.53	0.65	51.00	0.000		1%	95%	-2.88
	Nov	48.61	1.17	51.00	0.000		2%	107%	3.56
	Dec	45.89	1.54	51.00	0.000		3%	114%	6.65
2022	Jan	48.68	1.16	51.00	0.000		2%	107%	3.49
	Feb	49.04	0.89	51.00	0.000		2%	106%	2.85
	Mar	54.96	0.91	51.00	0.000		2%	94%	-3.04
	Apr	55.77	1.43	51.00	0.000		3%	94%	-3.34
	May	60.60	0.53	51.00	0.000		1%	85%	-9.07
	Jun	62.16	0.36	51.00	0.000		1%	83%	-10.80
	Jul	60.14	0.26	51.00	0.000		0%	85%	-8.87
	Aug	59.05	0.37	51.00	0.000		1%	87%	-7.67
	Sep	59.31	0.17	51.00	0.000		0%	86%	-8.15
	Oct	57.58	0.65	51.00	0.000		1%	90%	-5.93
	Nov	51.34	1.17	51.00	0.000		2%	102%	0.84
	Dec	48.46	1.54	51.00	0.000		3%	108%	4.08
2023	Jan	50.34	1.16	51.00	3.000		2%	110%	4.83
	Feb	50.71	0.89	51.00	3.000		2%	108%	4.18
	Mar	56.83	0.91	51.00	3.000		2%	97%	-1.92

	Apr	57.67	1.43	51.00	3.000		2%	96%	-2.24
	May	62.66	0.53	51.00	3.000		1%	87%	-8.13
	Jun	64.28	0.36	51.00	3.000		1%	85%	-9.92
	Jul	62.18	0.26	51.00	3.000		0%	87%	-7.92
	Aug	61.06	0.37	51.00	3.000		1%	89%	-6.69
	Sep	61.33	0.17	51.00	3.000		0%	88%	-7.17
	Oct	59.54	0.65	51.00	3.000		1%	92%	-4.89
	Nov	53.09	1.17	51.00	3.000		2%	104%	2.09
	Dec	50.11	1.54	51.00	3.000		3%	111%	5.43
2024	Jan	51.91	1.16	51.00	5.000		2%	110%	5.25
	Feb	52.30	0.89	51.00	5.000		2%	109%	4.59
	Mar	58.61	0.91	51.00	5.000		2%	97%	-1.70
	Apr	59.47	1.43	51.00	5.000		2%	97%	-2.05
	May	64.62	0.53	51.00	5.000		1%	87%	-8.10
	Jun	66.30	0.36	51.00	5.000		1%	85%	-9.94
	Jul	64.13	0.26	51.00	5.000		0%	88%	-7.87
	Aug	62.97	0.37	51.00	5.000		1%	90%	-6.60
	Sep	63.26	0.17	51.00	5.000		0%	89%	-7.09
	Oct	61.41	0.65	51.00	5.000		1%	92%	-4.76
	Nov	54.75	1.17	51.00	5.000		2%	104%	2.42
	Dec	51.68	1.54	51.00	5.000		3%	111%	5.86
2025	Jan	53.42	1.16	51.00	6.000		2%	109%	4.74
	Feb	53.82	0.89	51.00	6.000		2%	108%	4.07
	Mar	60.31	0.91	51.00	6.000		2%	96%	-2.40
	Apr	61.20	1.43	51.00	6.000		2%	95%	-2.77
	May	66.50	0.53	51.00	6.000		1%	87%	-8.97
	Jun	68.22	0.36	51.00	6.000		1%	84%	-10.86
	Jul	65.99	0.26	51.00	6.000		0%	87%	-8.73
	Aug	64.80	0.37	51.00	6.000		1%	89%	-7.43
	Sep	65.09	0.17	51.00	6.000		0%	88%	-7.92
	Oct	63.19	0.65	51.00	6.000		1%	91%	-5.54
	Nov	56.34	1.17	51.00	6.000		2%	103%	1.84

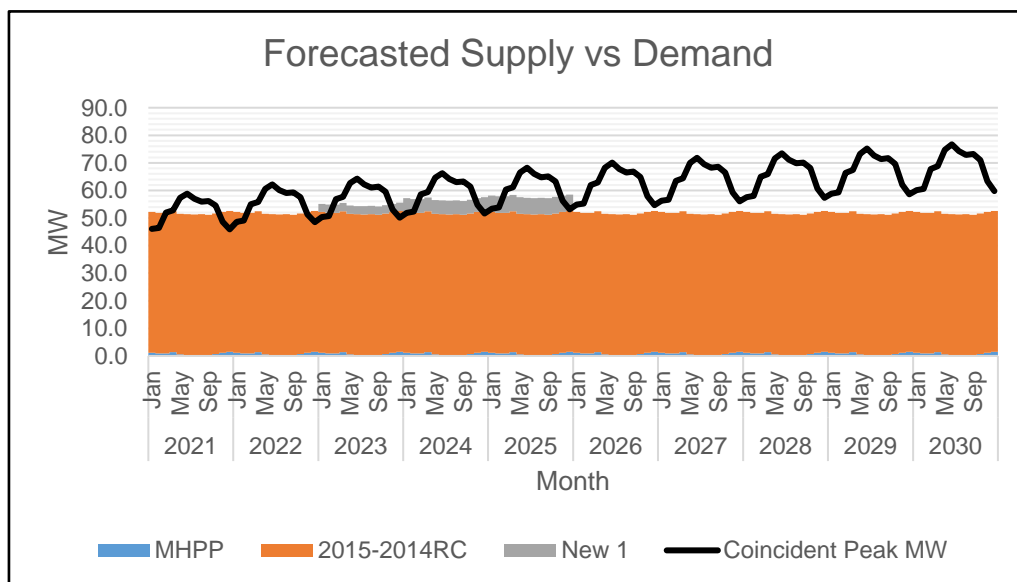
	Dec	53.18	1.54	51.00	6.000		3%	110%	5.36
2026	Jan	54.86	1.16	51.00	0.000		2%	95%	-2.70
	Feb	55.27	0.89	51.00	0.000		2%	94%	-3.38
	Mar	61.94	0.91	51.00	0.000		1%	84%	-10.02
	Apr	62.85	1.43	51.00	0.000		2%	83%	-10.42
	May	68.29	0.53	51.00	0.000		1%	75%	-16.76
	Jun	70.06	0.36	51.00	0.000		1%	73%	-18.70
	Jul	67.77	0.26	51.00	0.000		0%	76%	-16.51
	Aug	66.55	0.37	51.00	0.000		1%	77%	-15.17
	Sep	66.85	0.17	51.00	0.000		0%	77%	-15.68
	Oct	64.90	0.65	51.00	0.000		1%	80%	-13.24
	Nov	57.86	1.17	51.00	0.000		2%	90%	-5.68
	Dec	54.62	1.54	51.00	0.000		3%	96%	-2.08
2027	Jan	56.24	1.16	51.00	0.000		2%	93%	-4.08
	Feb	56.66	0.89	51.00	0.000		2%	92%	-4.77
	Mar	63.50	0.91	51.00	0.000		1%	82%	-11.58
	Apr	64.43	1.43	51.00	0.000		2%	81%	-12.01
	May	70.01	0.53	51.00	0.000		1%	74%	-18.48
	Jun	71.82	0.36	51.00	0.000		1%	72%	-20.46
	Jul	69.48	0.26	51.00	0.000		0%	74%	-18.22
	Aug	68.22	0.37	51.00	0.000		1%	75%	-16.85
	Sep	68.53	0.17	51.00	0.000		0%	75%	-17.36
	Oct	66.53	0.65	51.00	0.000		1%	78%	-14.88
	Nov	59.31	1.17	51.00	0.000		2%	88%	-7.14
	Dec	55.99	1.54	51.00	0.000		3%	94%	-3.45
2028	Jan	57.57	1.16	51.00	0.000		2%	91%	-5.41
	Feb	58.00	0.89	51.00	0.000		2%	89%	-6.11
	Mar	64.99	0.91	51.00	0.000		1%	80%	-13.08
	Apr	65.95	1.43	51.00	0.000		2%	79%	-13.53
	May	71.66	0.53	51.00	0.000		1%	72%	-20.14
	Jun	73.52	0.36	51.00	0.000		0%	70%	-22.16
	Jul	71.12	0.26	51.00	0.000		0%	72%	-19.86

	Aug	69.83	0.37	51.00	0.000		1%	74%	-18.46
	Sep	70.15	0.17	51.00	0.000		0%	73%	-18.98
	Oct	68.10	0.65	51.00	0.000		1%	76%	-16.45
	Nov	60.71	1.17	51.00	0.000		2%	86%	-8.54
	Dec	57.32	1.54	51.00	0.000		3%	92%	-4.77
2029	Jan	58.85	1.16	51.00	0.000		2%	89%	-6.68
	Feb	59.28	0.89	51.00	0.000		1%	88%	-7.40
	Mar	66.44	0.91	51.00	0.000		1%	78%	-14.52
	Apr	67.42	1.43	51.00	0.000		2%	78%	-14.99
	May	73.25	0.53	51.00	0.000		1%	70%	-21.73
	Jun	75.15	0.36	51.00	0.000		0%	68%	-23.79
	Jul	72.70	0.26	51.00	0.000		0%	71%	-21.43
	Aug	71.38	0.37	51.00	0.000		1%	72%	-20.01
	Sep	71.70	0.17	51.00	0.000		0%	71%	-20.54
	Oct	69.61	0.65	51.00	0.000		1%	74%	-17.96
	Nov	62.06	1.17	51.00	0.000		2%	84%	-9.89
	Dec	58.59	1.54	51.00	0.000		3%	90%	-6.04
2030	Jan	60.08	1.16	51.00	0.000		2%	87%	-7.92
	Feb	60.53	0.89	51.00	0.000		1%	86%	-8.64
	Mar	67.83	0.91	51.00	0.000		1%	77%	-15.91
	Apr	68.83	1.43	51.00	0.000		2%	76%	-16.40
	May	74.79	0.53	51.00	0.000		1%	69%	-23.26
	Jun	76.72	0.36	51.00	0.000		0%	67%	-25.36
	Jul	74.22	0.26	51.00	0.000		0%	69%	-22.96
	Aug	72.88	0.37	51.00	0.000		1%	70%	-21.50
	Sep	73.21	0.17	51.00	0.000		0%	70%	-22.04
	Oct	71.07	0.65	51.00	0.000		1%	73%	-19.42
	Nov	63.36	1.17	51.00	0.000		2%	82%	-11.19
	Dec	59.81	1.54	51.00	0.000		3%	88%	-7.27

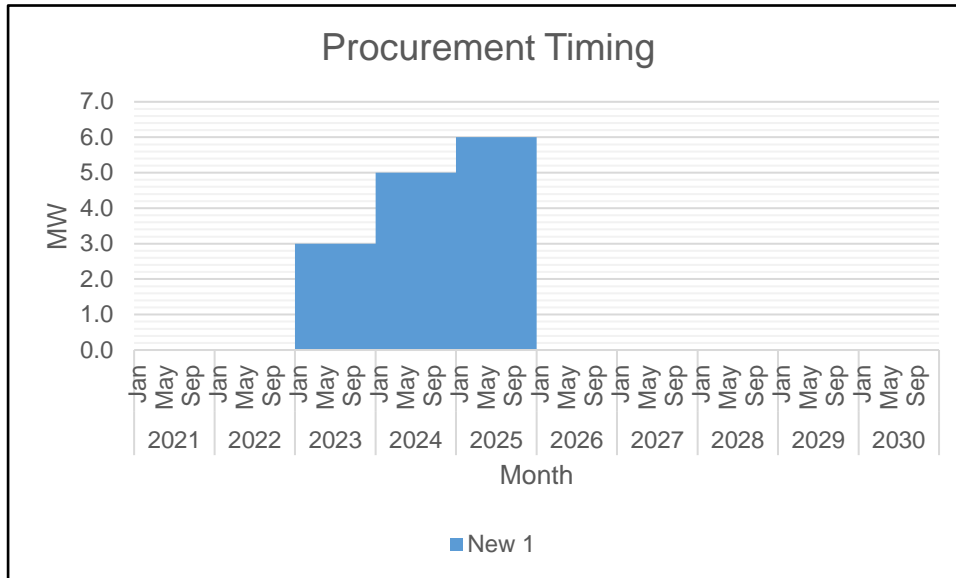
The Peak Demand was forecasted using the energy, and from there, demand is obtained by utilizing the latest load factor and was assumed to occur on the month of June where the load are expected to be highest because high temperature is usually attained during this month. Monthly Peak Demand is at its lowest on the month of January due to low temperature. In general, Peak Demand is expected to grow at a rate of 4% to 5% annually.



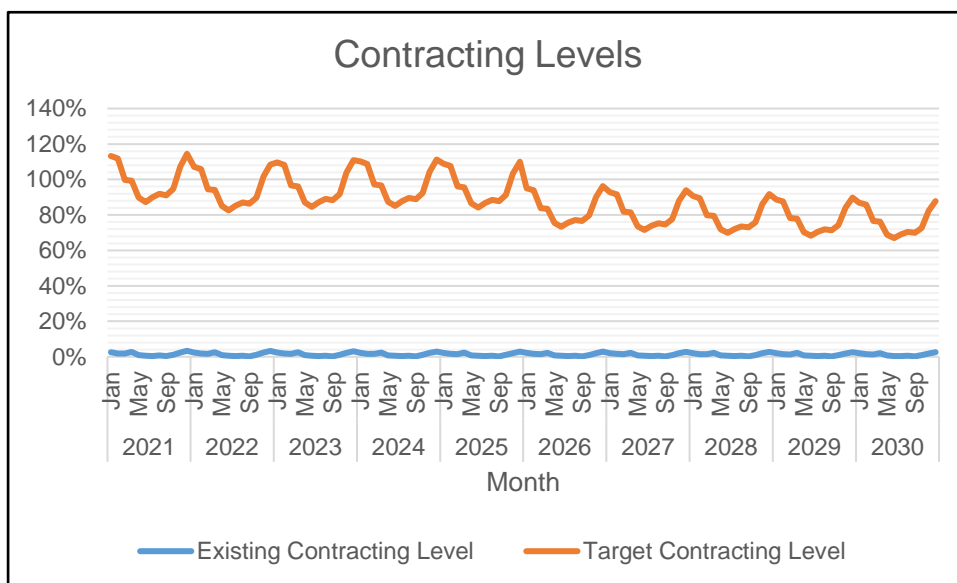
The available supply is generally below the Peak Demand. This is because the contracted capacity is lower than the peak, of which was obtained from the coop's economic consideration using the so-called "optimal power supply optimal mix".



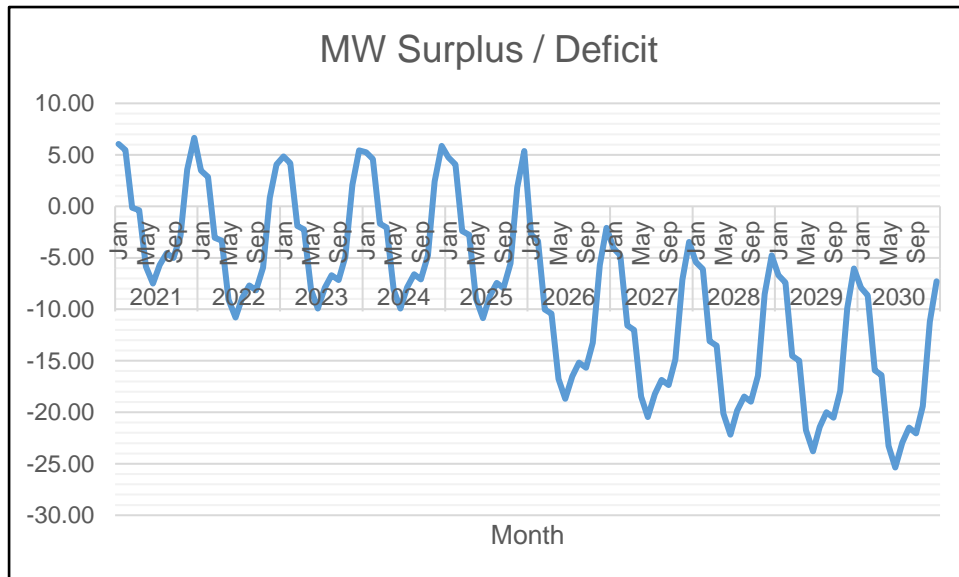
Of the available supply, the maximum is 51 MW from Generation Company. This is followed by 1.5 MW from MHPP. The shortage in the contracted capacity will be sourced from WESM.



The first wave of supply procurement will be for 3 MW planned to be available by the month of January 2023 intended for power procurement through Aggregation of R1+CAR+S1 ECs. This will be followed by 5MW and 6 MW by 2024 and 2025, respectively.



Currently, there is contracting level by 70% to 100% under Case No. 2015-204 RC. The highest target contracting level is 114% which is expected to occur on 2021. The lowest target contracting level is 67% which is expected to occur on 2030.



Currently, there is contracting capacity by 51 MW. The highest deficit is 25.36 MW which is expected to occur on the month of June. The lowest deficit is 0.13 MW which is expected to occur on the month of March.

No over or under-contracting with respect to coincident peak demand. Optimal Generation/supply mix was obtained from the power plant screening curve based on the cost characteristics of baseload and peaking plants represented by coal-fired, combined cycle and diesel. The study on the demand suggests that the least-cost for the baseload demand will be supplied by a thermal (coal as fuel) plant. The peaking demand will be supplied by a Diesel plant or to be sourced from WESM, whichever is cheaper.

The levelized annual cost of these three technologies for any given capacity factor were simulated and plotted against 8760 hour load duration curve. Relating the screening curve with the Load Duration Curve, this results in a least-cost mix of 78% baseload demand with 97% annual energy and 22% peaking demand with only 3% annual energy equivalent.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2021	Jan	27,408	25,155	2,254	0.00%	8.22%
	Feb	24,052	22,278	1,775	0.00%	7.38%
	Mar	23,863	22,097	1,766	0.00%	7.40%
	Apr	33,648	28,881	4,768	0.00%	14.17%
	May	34,067	30,974	3,093	0.00%	9.08%
	Jun	40,483	32,692	8,181	-0.96%	20.02%
	Jul	33,370	29,919	3,451	0.00%	10.34%
	Aug	32,045	28,013	4,032	0.00%	12.58%
	Sep	31,984	26,282	5,702	0.00%	17.83%
	Oct	28,754	25,549	3,205	0.00%	11.15%
	Nov	29,126	26,394	2,732	0.00%	9.38%

	Dec	24,619	22,653	1,967	0.00%	7.99%
2022	Jan	28,618	26,034	2,585	0.00%	9.03%
	Feb	25,075	23,039	2,036	0.00%	8.12%
	Mar	24,884	22,858	2,026	0.00%	8.14%
	Apr	35,364	29,896	5,468	0.00%	15.46%
	May	35,620	32,072	3,547	0.00%	9.96%
	Jun	40,368	33,854	9,383	-7.11%	21.70%
	Jul	34,954	30,996	3,958	0.00%	11.32%
	Aug	33,637	29,013	4,624	0.00%	13.75%
	Sep	33,752	27,212	6,540	0.00%	19.38%
	Oct	30,127	26,451	3,676	0.00%	12.20%
	Nov	30,454	27,321	3,133	0.00%	10.29%
	Dec	25,626	23,371	2,256	0.00%	8.80%
2023	Jan	29,657	27,075	2,582	0.00%	8.71%
	Feb	25,996	23,963	2,033	0.00%	7.82%
	Mar	25,797	23,773	2,023	0.00%	7.84%
	Apr	36,553	31,091	5,462	0.00%	14.94%
	May	36,897	33,354	3,543	0.00%	9.60%
	Jun	42,625	35,207	9,372	-4.58%	21.02%
	Jul	36,186	32,233	3,953	0.00%	10.92%
	Aug	34,790	30,171	4,619	0.00%	13.28%
	Sep	34,832	28,299	6,533	0.00%	18.75%
	Oct	31,180	27,508	3,672	0.00%	11.78%
	Nov	31,543	28,413	3,130	0.00%	9.92%
	Dec	26,567	24,314	2,253	0.00%	8.48%
2024	Jan	30,774	28,432	2,342	0.00%	7.61%
	Feb	27,008	25,164	1,844	0.00%	6.83%
	Mar	26,799	24,964	1,835	0.00%	6.85%
	Apr	37,602	32,649	4,954	0.00%	13.17%
	May	38,238	35,025	3,214	0.00%	8.40%
	Jun	44,175	36,970	8,500	-2.93%	18.69%
	Jul	37,433	33,847	3,586	0.00%	9.58%
	Aug	35,872	31,682	4,189	0.00%	11.68%
	Sep	35,642	29,717	5,925	0.00%	16.62%
	Oct	32,216	28,886	3,330	0.00%	10.34%
	Nov	32,675	29,837	2,839	0.00%	8.69%
	Dec	27,576	25,532	2,043	0.00%	7.41%
2025	Jan	31,626	29,231	2,395	0.00%	7.57%
	Feb	27,753	25,867	1,886	0.00%	6.80%
	Mar	27,540	25,663	1,877	0.00%	6.82%
	Apr	38,634	33,567	5,067	0.00%	13.11%
	May	39,299	36,012	3,287	0.00%	8.36%
	Jun	44,915	38,013	8,694	-3.99%	18.61%
	Jul	38,472	34,805	3,667	0.00%	9.53%
	Aug	36,862	32,577	4,285	0.00%	11.62%
	Sep	36,614	30,554	6,060	0.00%	16.55%
	Oct	33,106	29,700	3,406	0.00%	10.29%

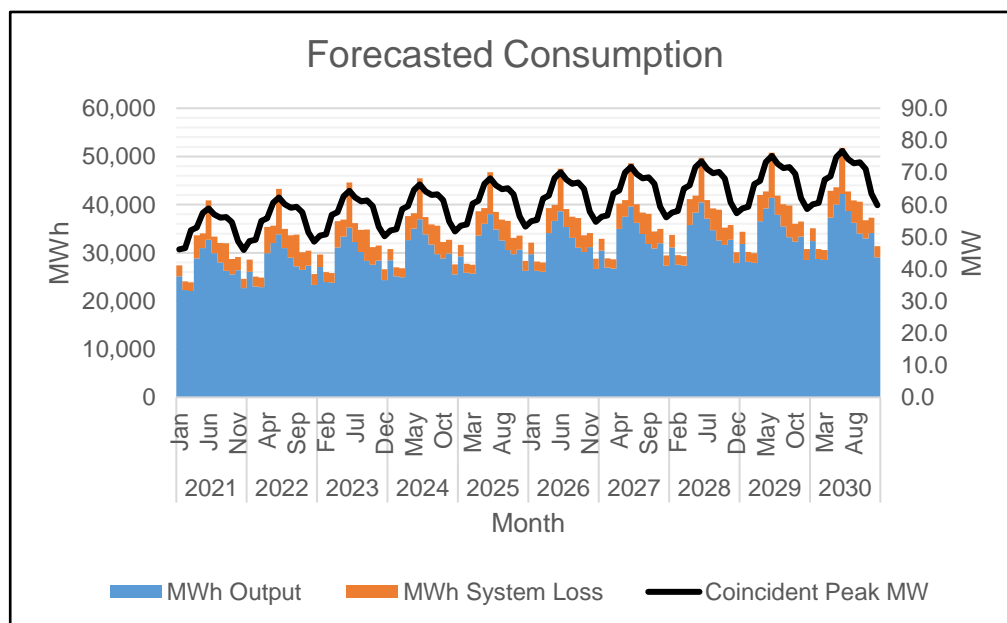
	Nov	33,579	30,676	2,903	0.00%	8.65%
	Dec	28,323	26,233	2,090	0.00%	7.38%
2026	Jan	32,140	29,710	2,429	0.00%	7.56%
	Feb	28,203	26,290	1,913	0.00%	6.78%
	Mar	27,987	26,083	1,904	0.00%	6.80%
	Apr	39,258	34,118	5,139	0.00%	13.09%
	May	39,429	36,604	3,334	-1.29%	8.35%
	Jun	40,644	38,638	8,819	-16.76%	18.58%
	Jul	38,998	35,378	3,720	-0.26%	9.51%
	Aug	37,459	33,113	4,346	0.00%	11.60%
	Sep	37,203	31,056	6,147	0.00%	16.52%
	Oct	33,643	30,188	3,455	0.00%	10.27%
	Nov	34,124	31,179	2,945	0.00%	8.63%
	Dec	28,778	26,658	2,120	0.00%	7.37%
2027	Jan	32,922	30,440	2,481	0.00%	7.54%
	Feb	28,887	26,933	1,954	0.00%	6.76%
	Mar	28,666	26,722	1,944	0.00%	6.78%
	Apr	40,207	34,958	5,249	0.00%	13.06%
	May	39,453	37,507	3,406	-3.70%	8.32%
	Jun	40,669	39,592	9,007	-19.50%	18.53%
	Jul	39,019	36,254	3,800	-2.65%	9.49%
	Aug	38,370	33,931	4,439	0.00%	11.57%
	Sep	38,100	31,821	6,279	0.00%	16.48%
	Oct	34,460	30,931	3,529	0.00%	10.24%
	Nov	34,954	31,946	3,008	0.00%	8.61%
	Dec	29,464	27,299	2,165	0.00%	7.35%
2028	Jan	33,673	31,140	2,533	0.00%	7.52%
	Feb	29,545	27,550	1,995	0.00%	6.75%
	Mar	29,319	27,334	1,985	0.00%	6.77%
	Apr	40,537	35,762	5,359	-1.44%	13.03%
	May	39,477	38,372	3,477	-6.01%	8.31%
	Jun	40,694	40,505	9,196	-22.13%	18.50%
	Jul	39,040	37,092	3,879	-4.94%	9.47%
	Aug	39,246	34,714	4,532	0.00%	11.55%
	Sep	38,964	32,555	6,410	0.00%	16.45%
	Oct	35,246	31,644	3,603	0.00%	10.22%
	Nov	35,752	32,681	3,071	0.00%	8.59%
	Dec	30,125	27,915	2,210	0.00%	7.34%
2029	Jan	34,398	31,815	2,583	0.00%	7.51%
	Feb	30,178	28,144	2,034	0.00%	6.74%
	Mar	29,949	27,925	2,024	0.00%	6.76%
	Apr	40,560	36,538	5,464	-3.56%	13.01%
	May	39,501	39,206	3,545	-8.23%	8.29%
	Jun	40,719	41,386	9,375	-24.66%	18.47%
	Jul	39,062	37,901	3,955	-7.15%	9.45%
	Aug	40,090	35,470	4,621	0.00%	11.53%
	Sep	39,797	33,262	6,535	0.00%	16.42%

	Oct	36,004	32,331	3,673	0.00%	10.20%
	Nov	36,521	33,390	3,131	0.00%	8.57%
	Dec	30,762	28,509	2,254	0.00%	7.33%
2030	Jan	35,098	32,468	2,630	0.00%	7.49%
	Feb	30,791	28,719	2,071	0.00%	6.73%
	Mar	30,557	28,496	2,061	0.00%	6.75%
	Apr	40,584	37,288	5,564	-5.59%	12.98%
	May	39,525	40,012	3,610	-10.36%	8.28%
	Jun	40,745	42,237	9,548	-27.10%	18.44%
	Jul	39,084	38,682	4,028	-9.28%	9.43%
	Aug	40,253	36,200	4,706	-1.62%	11.50%
	Sep	40,303	33,946	6,655	-0.74%	16.39%
	Oct	36,736	32,995	3,741	0.00%	10.18%
	Nov	37,264	34,076	3,189	0.00%	8.56%
	Dec	31,214	29,083	2,295	-0.53%	7.31%

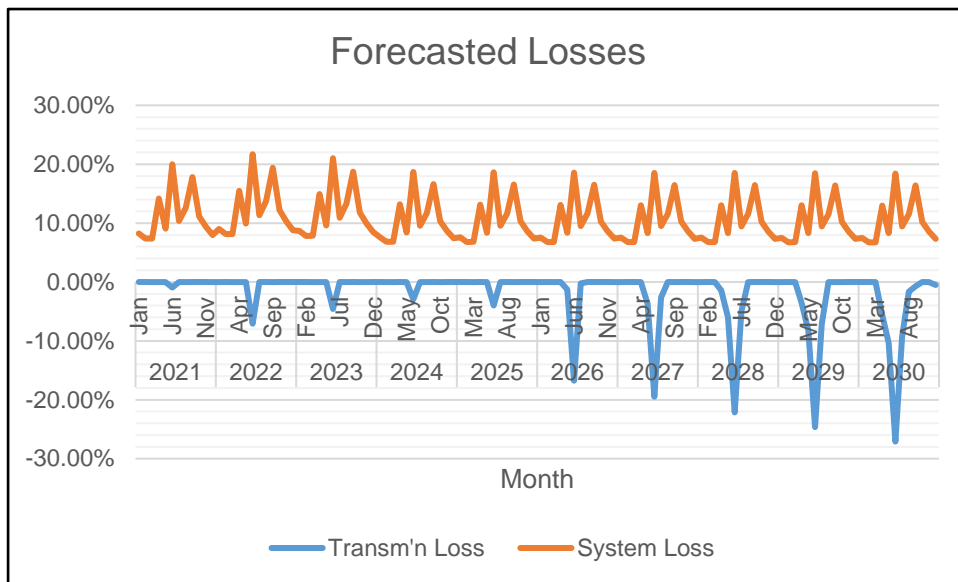
MWh Offtake was forecasted using seven years of historical data using Trend Analysis with the mean percentage error (MAPE) of 0.63% and adjusted R^2 of 99.43%. The assumed load factor is 65%.

On the energy demand forecast, there is a slightly increase in energy demand due to the effect of pandemic. However, the usage of air-conditioning units in most households now is new trend and is a consideration in the forecast.

System loss is decreasing, assuming that the planned projects is implemented during each year.



MWh Output was expected to grow at a rate of 3.34% annually.



Transmission Loss is expected to range from 1% to 9% while System Loss is expected to range from 6% to 10.25%.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
MHPP	Base	DU-owned	0.17	4,430	1/1/1984	12/31/2034

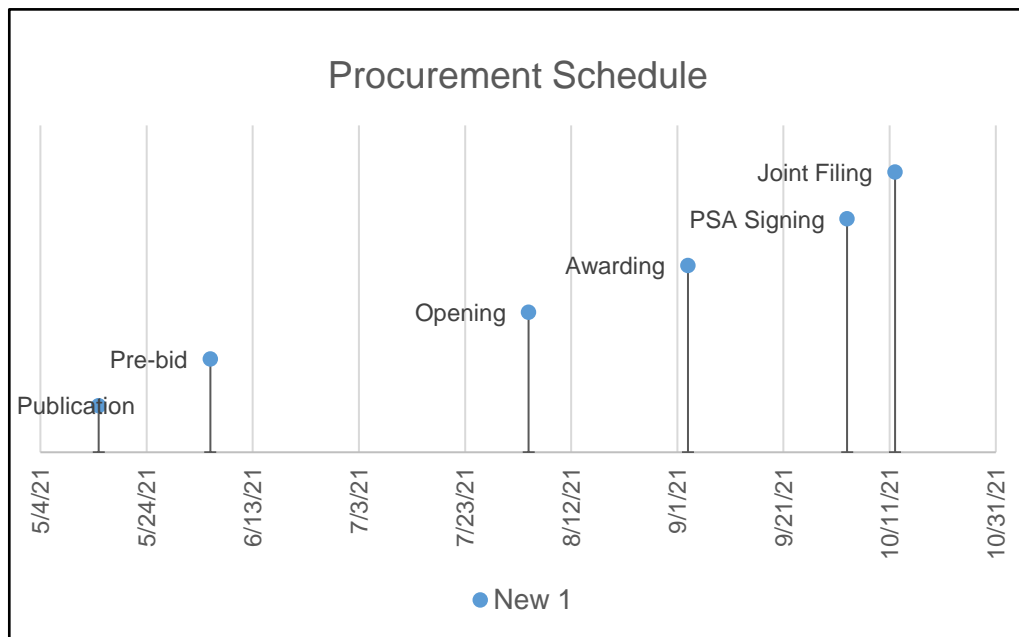
Mini-hydro power plant is DU-owned generator. The output is very minimal compared to the demand of the DU.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2015-204 RC	Base	Masinloc Power Partners Company, Ltd.	35.70	312,732	12/26/2018	12/25/2038

The existing (2019-2038) power supply contracts have been acquired through competitive power supply procurement in 2015. The CSP (competitive selection process) had taken place with the of the R1+CAR electric cooperatives aggregation group. The Joint Technical Working Group was conducted the formulation of power plant screening curve with the historical load duration curve and this is the basis in deciding what's the least cost power supply technology for the requirement. The study on the aggregated demand suggests that the least-cost for the baseload demand will be supplied by a thermal (coal as fuel) plant. The peaking demand will be supplied by a Diesel plant or to be sourced from WESM, whichever is cheaper.

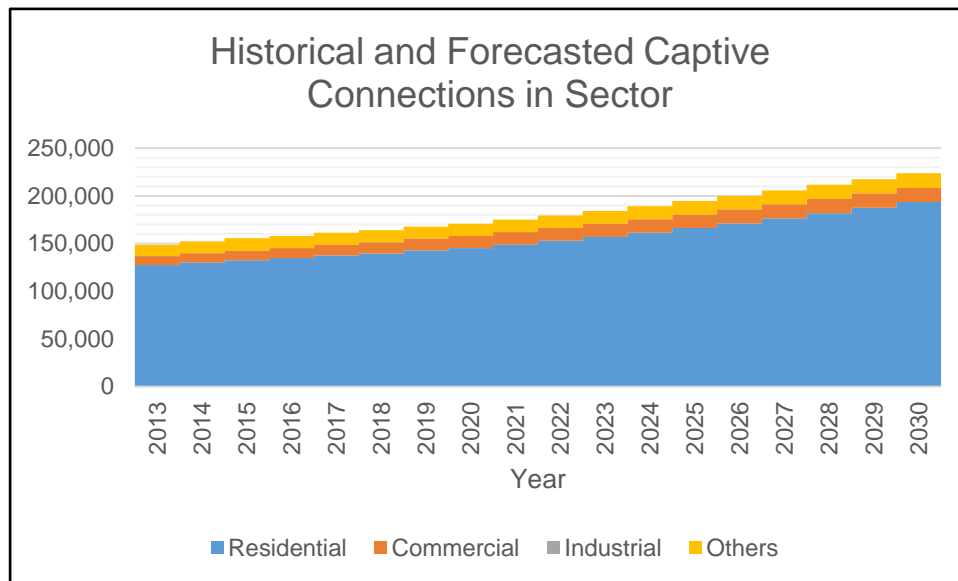
The actual billed overall monthly charge under the PSA ranged from 4.3272 P/kWh to 5.4378 P/KWh in 2020.

	New 1
Type	Base
Minimum MW	3.00
Minimum MWh/yr	26,280
PSA Start	12/26/2022
PSA End	12/25/2025
Publication	5/15/2021
Pre-bid	6/5/2021
Opening	8/4/2021
Awarding	9/3/2021
PSA Signing	10/3/2021
Joint Filing	10/12/2021



For the procurement of 3 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, in accordance with DOE's 2018 CSP Policy.

Captive Customer Connections



The number of residential connections is expected to grow at a rate of 3% annually. Said customer class is expected to account for 65% of the total energy consumption.