

# **Power Supply Procurement Plan 2020**

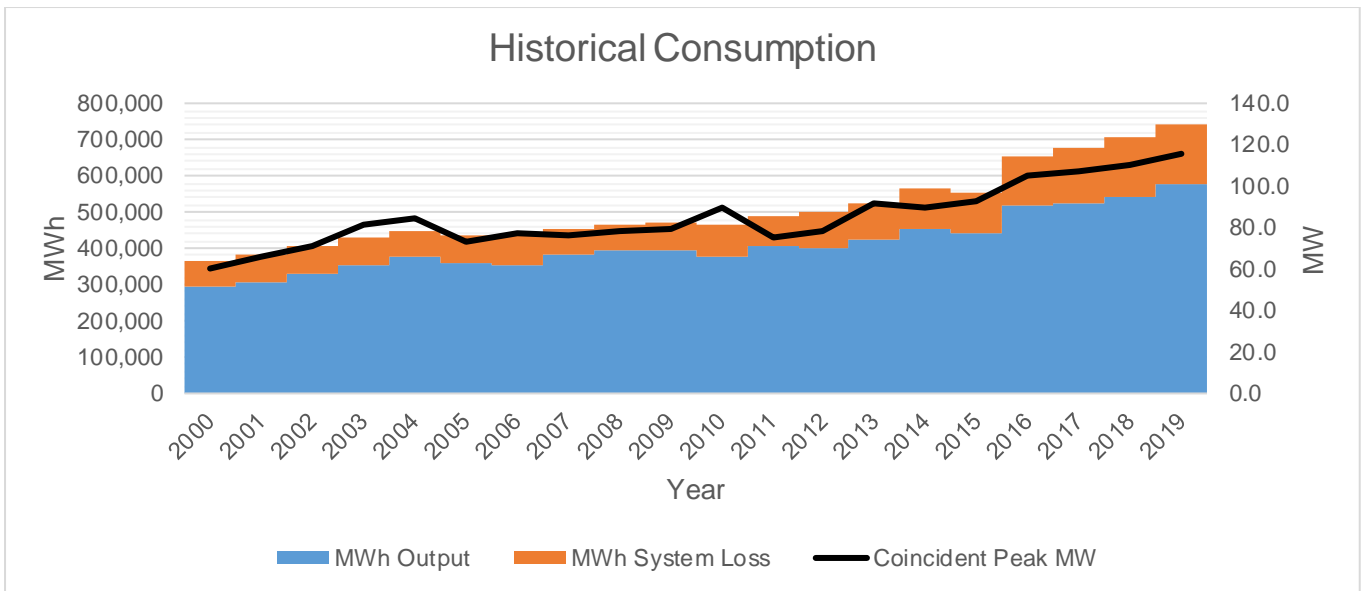
**ZAMBOANGA CITY ELECTRIC COOPERATIVE, INC.  
(ZAMCELCO)  
(GRID)**

## 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	60.27	391,329	0	375,016	294,119	72,378	71%	-2.27%	4.17%	19.30%
2001	65.82	406,640	0	389,689	308,070	71,998	68%	-2.47%	4.17%	18.48%
2002	70.88	433,499	0	415,428	332,638	75,450	67%	-1.77%	4.17%	18.16%
2003	81.62	449,396	0	430,662	351,543	79,537	60%	0.10%	4.17%	18.47%
2004	84.92	467,042	0	447,573	374,986	72,852	60%	0.06%	4.17%	16.28%
2005	73.64	452,670	0	433,800	360,941	73,042	67%	0.04%	4.17%	16.84%
2006	77.13	452,829	0	433,952	353,822	80,236	64%	0.02%	4.17%	18.49%
2007	76.05	480,766	0	460,724	383,758	68,751	69%	-1.78%	4.17%	14.92%
2008	78.53	488,127	0	467,779	392,923	72,757	68%	-0.45%	4.17%	15.55%
2009	79.31	495,337	0	474,688	395,660	77,716	68%	-0.28%	4.17%	16.37%
2010	89.79	510,152	0	488,885	378,290	85,190	62%	-5.20%	4.17%	17.43%
2011	75.67	536,940	0	514,557	404,118	84,740	78%	-4.99%	4.17%	16.47%
2012	78.08	548,921	0	526,039	403,158	94,921	77%	-5.32%	4.17%	18.04%
2013	91.39	544,697	0	521,990	426,033	96,798	65%	0.16%	4.17%	18.54%
2014	89.99	584,646	0	560,274	451,238	112,622	71%	0.64%	4.17%	20.10%
2015	92.60	587,510	0	563,019	442,459	113,174	69%	-1.31%	4.17%	20.10%
2016	105.25	693,114	0	663,652	519,645	133,499	72%	-1.58%	4.25%	20.12%
2017	107.53	706,103	0	675,390	527,096	149,324	72%	0.15%	4.35%	22.11%
2018	110.66	748,179	0	702,503	540,534	164,209	72%	0.32%	6.10%	23.37%
2019	115.64	762,711	0	709,485	576,178	164,304	70%	4.37%	6.98%	23.16%

Peak Demand increased from 60.27 MW in 2000 to 115.64 MW in 2019 at a rate of 3.83% due to high demand consumption. MWh Offtake increased from 391,329MWh in 2000 to 762,711 MWh in 2019 at a rate of 3.67% due to high energy consumption. Within the same period, Load Factor ranged from 62% to 78%. There was an abrupt change in consumption on 2016 due to high energy demand.

Focusing on last year's performance, Peak Demand increased by 4.50% and 6.59% in Energy Sales compared to the previous year.

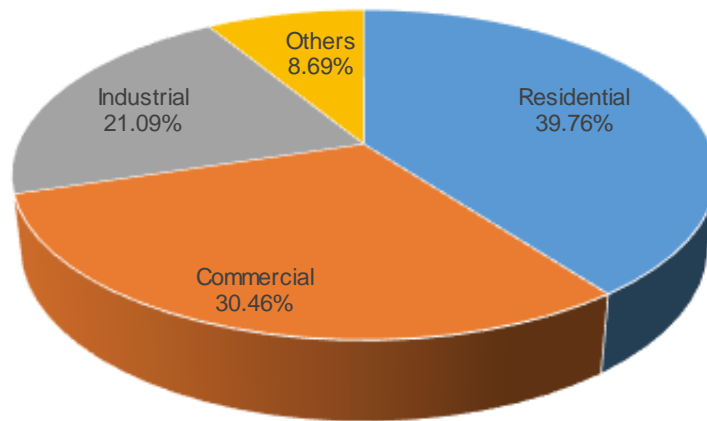


MWh Output increased from year 2000 to year 2019 at an average rate of 3.72%, while MWh System Loss increased at an average rate of 1.25% within the same period.



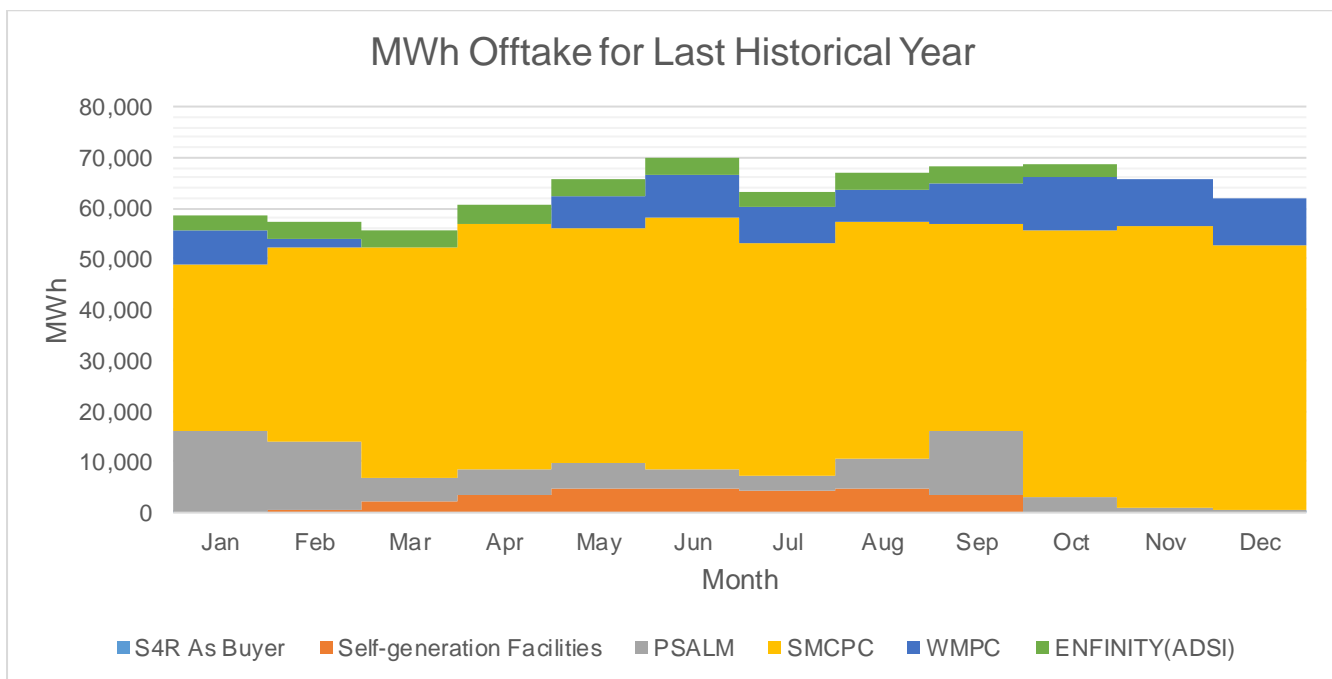
Historically, Transmission Loss ranged from 4.17 % to 6.98% while System Loss ranged from 14.92% to 23.37%. Transmission Loss peaked at 6.98% on year 2019 because of high technical losses. System Loss peaked at 23.37% on year 2018 because of high non-technical losses.

## Previous Year's Shares of Energy Sales

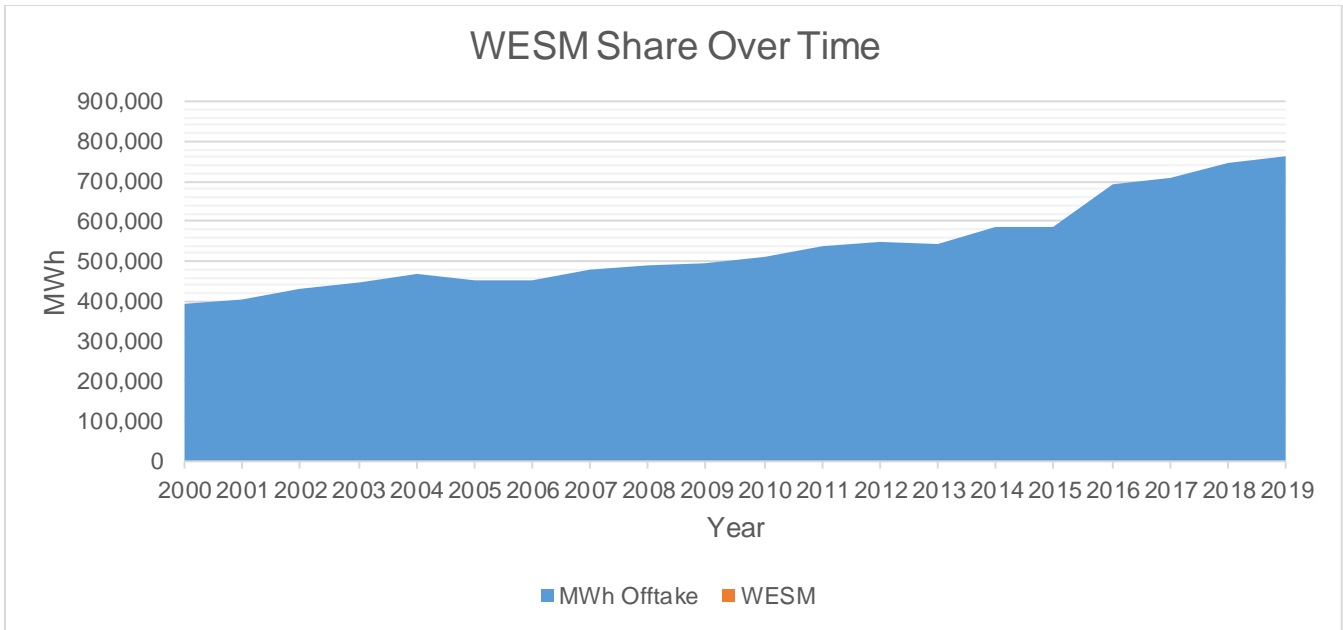


Residential customers account for the bulk of energy sales at 39.76% due to the high number of connections. In contrast, Others (Public building and Street lights) customers accounted for only 8.69% of energy sales due to the low number of connections.

## MWh Offtake for Last Historical Year

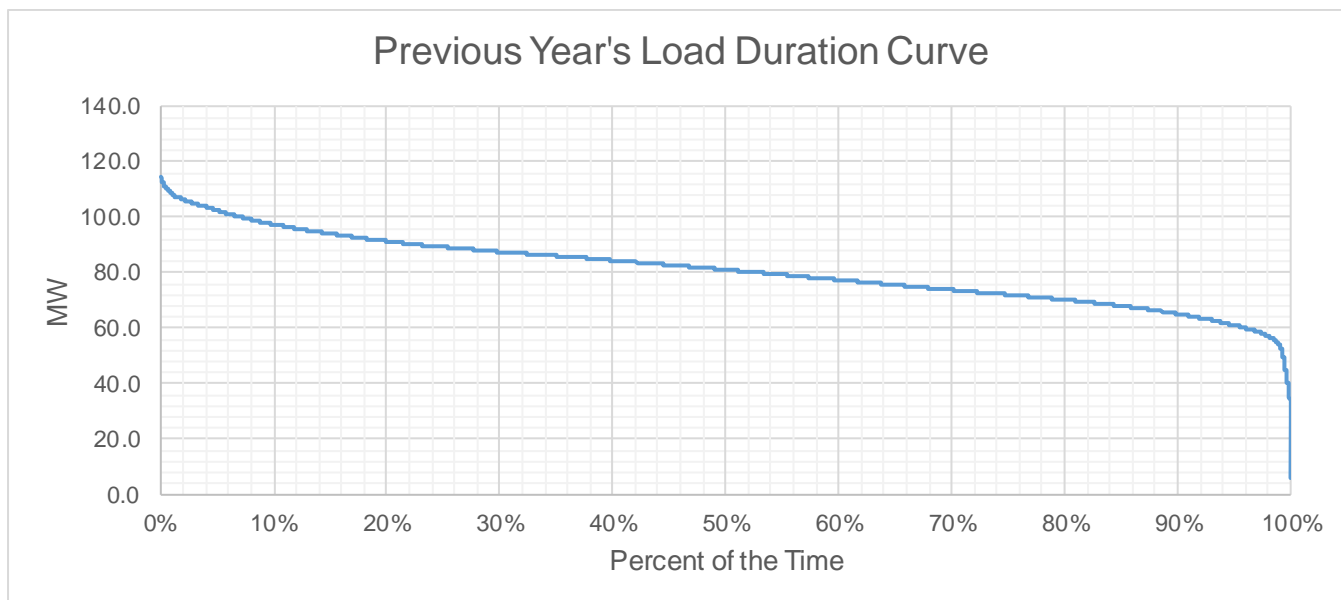


The total Offtake for the last historical year is Higher than the quantity stipulated in the PSA. The PSA with San Miguel Consolidated Power Corporation accounts for the bulk of MWh Offtake with existing agreement for the additional supply of 35 MW on top of the existing 35 MW contract as Non-firm.

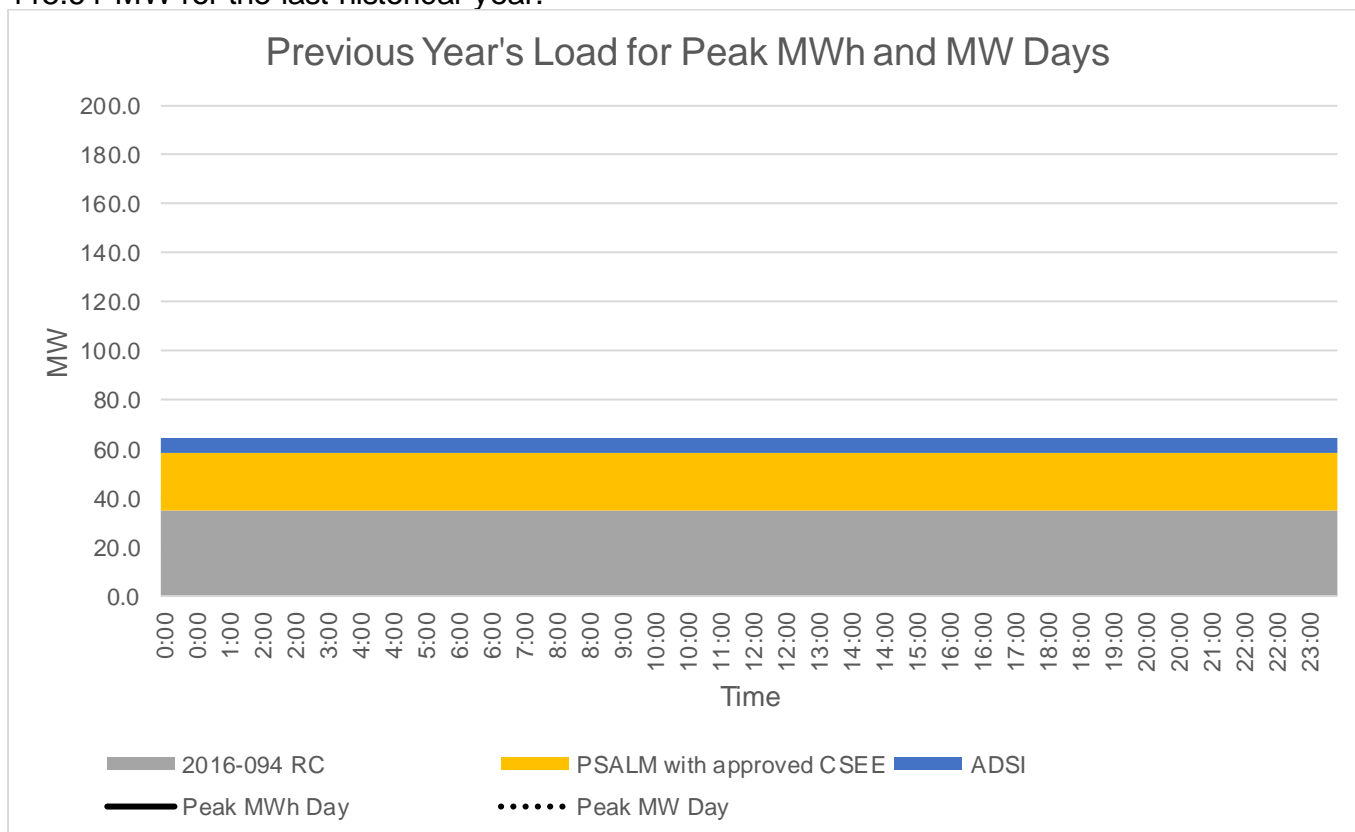


ZAMCELCO is now currently processing its application to Wholesale Electricity Spot Market (WESM).

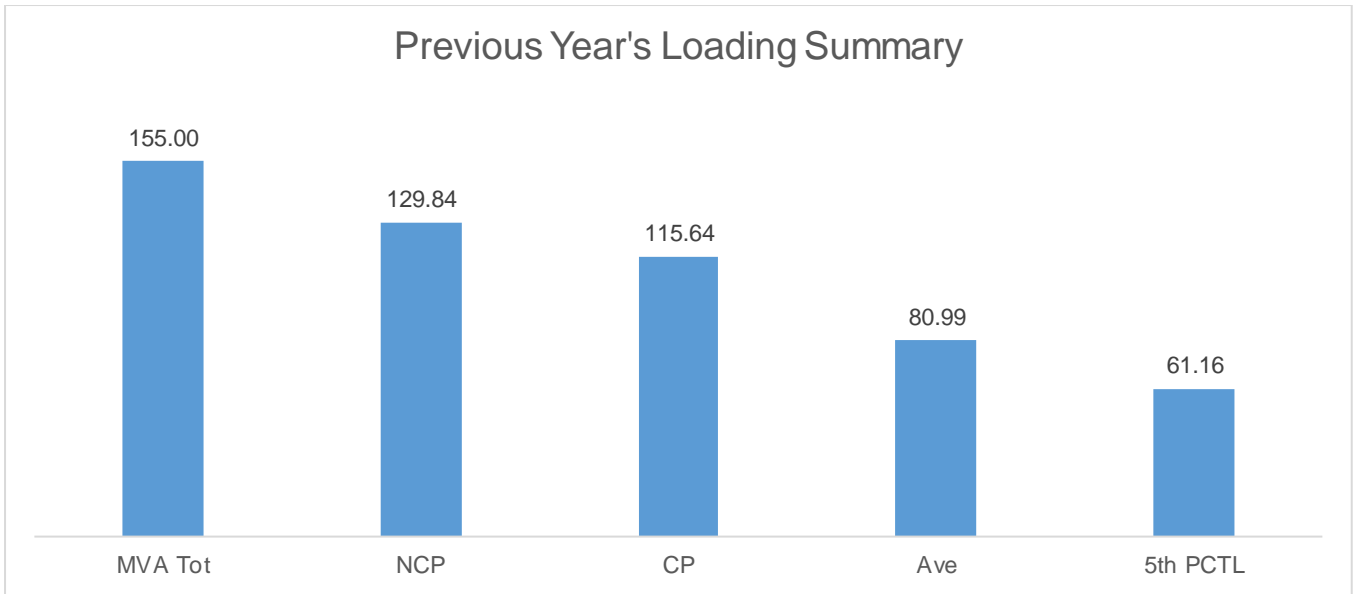
# Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 60.4 MW and the maximum load is 115.64 MW for the last historical year.



Peak MW occurred on October 9 2019 due to high demand consumption. Peak demand MWh occurred on October 10 2019 due to high energy consumption from different sectors. As shown in the load curve, the available supply is lower than the peak demand.



The Non-coincident Peak Demand is 129.84 MW, which is around 83.77% of the total substation capacity of 155 MVA at a power factor of 0.98. The load factor or the ratio between the Average Load of 80.99 MW and the Non-coincident peak demand is 62.37%. A safe estimate of the true minimum load is the fifth percentile load of 61.16% MW which is 47.10% of the Non-coincident Peak demand.

Metering Point	Substation MVA	Substation Peak MW
Putik	40	33.873
San Jose Gusu	20	23.935
Sangali	10	7.837
Ayala & Recodo	20	21.356
Cabatangan	20	12.040
Camanchile	45	30.798

The substations loaded at above 70% are Putik, San Jose Gusu, Sangali and Ayala/Recodo. This loading problem will be solved by uprating and additional MVA for the said substations as part of the Capital Expenditures of the electric cooperative.

## 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
2020	Jan	105.16	64.79	0.00	0.000		62%	62%	-40.37
	Feb	102.25	63.03	0.00	0.000		62%	62%	-39.22
	Mar	105.38	63.81	0.00	0.000		61%	61%	-41.58
	Apr	94.73	60.92	0.00	0.000		64%	64%	-33.82
	May	111.59	59.95	0.00	0.000		54%	54%	-51.63
	Jun	117.55	56.84	0.00	0.000		48%	48%	-60.70
	Jul	103.16	59.56	0.00	0.000		58%	58%	-43.60
	Aug	104.75	58.09	0.00	0.000		55%	55%	-46.66
	Sep	113.36	65.49	0.00	0.000		58%	58%	-47.88
	Oct	120.00	66.02	0.00	0.000		55%	55%	-53.98
	Nov	117.35	68.85	0.00	0.000		59%	59%	-48.49
	Dec	115.78	67.87	0.00	0.000		59%	59%	-47.91
2021	Jan	108.31	64.89	0.00	0.000		60%	60%	-43.42
	Feb	105.32	62.96	0.00	0.000		60%	60%	-42.35
	Mar	108.54	63.76	0.00	0.000		59%	59%	-44.79
	Apr	97.57	60.70	0.00	0.000		62%	62%	-36.87
	May	114.93	59.75	0.00	0.000		52%	52%	-55.18
	Jun	121.07	57.28	0.00	40.000		47%	80%	-23.79
	Jul	106.25	55.63	0.00	40.000		52%	90%	-10.62
	Aug	107.89	55.56	0.00	40.000		51%	89%	-12.33
	Sep	116.76	64.15	0.00	40.000		55%	89%	-12.61
	Oct	123.60	66.06	0.00	40.000		53%	86%	-17.54
	Nov	120.87	68.51	0.00	40.000		57%	90%	-12.36
	Dec	119.25	68.58	0.00	40.000		58%	91%	-10.67
2022	Jan	111.55	63.98	0.00	40.000		57%	93%	-7.58
	Feb	108.47	64.79	0.00	40.000		60%	97%	-3.68
	Mar	111.79	63.86	0.00	40.000		57%	93%	-7.94
	Apr	100.49	60.41	0.00	40.000		60%	100%	-0.08



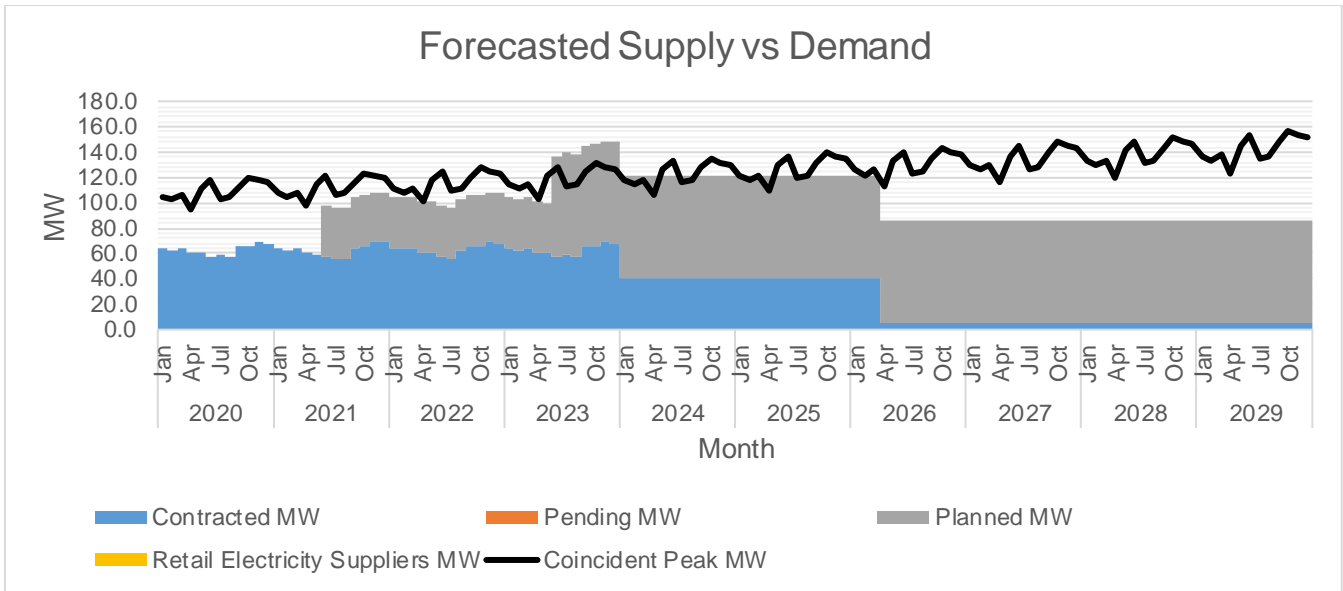
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	May	118.37	60.63	0.00	40.000		51%	85%	-17.75
	Jun	124.70	57.36	0.00	40.000		46%	78%	-27.33
	Jul	109.43	55.81	0.00	40.000		51%	88%	-13.62
	Aug	111.12	62.24	0.00	40.000		56%	92%	-8.88
	Sep	120.26	66.28	0.00	40.000		55%	88%	-13.98
	Oct	127.30	65.40	0.00	40.000		51%	83%	-21.90
	Nov	124.48	68.59	0.00	40.000		55%	87%	-15.90
	Dec	122.82	67.88	0.00	40.000		55%	88%	-14.94
2023	Jan	114.88	64.80	0.00	40.000		56%	91%	-10.09
	Feb	111.71	63.04	0.00	40.000		56%	92%	-8.67
	Mar	115.13	63.81	0.00	40.000		55%	90%	-11.32
	Apr	103.49	60.92	0.00	40.000		59%	98%	-2.57
	May	121.91	59.96	0.00	40.000		49%	82%	-21.95
	Jun	128.42	56.85	0.00	80.000		44%	107%	8.43
	Jul	112.70	59.57	0.00	80.000		53%	124%	26.86
	Aug	114.44	58.09	0.00	80.000		51%	121%	23.65
	Sep	123.85	65.49	0.00	80.000		53%	117%	21.64
	Oct	131.10	66.03	0.00	80.000		50%	111%	14.93
	Nov	128.20	68.59	0.00	80.000		54%	116%	20.39
	Dec	126.49	67.88	0.00	80.000		54%	117%	21.39
2024	Jan	118.39	41.00	0.00	80.000		35%	102%	2.61
	Feb	115.12	41.00	0.00	80.000		36%	105%	5.88
	Mar	118.64	41.00	0.00	80.000		35%	102%	2.36
	Apr	106.65	41.00	0.00	80.000		38%	113%	14.35
	May	125.63	41.00	0.00	80.000		33%	96%	-4.63
	Jun	132.34	41.00	0.00	80.000		31%	91%	-11.34
	Jul	116.14	41.00	0.00	80.000		35%	104%	4.86
	Aug	117.93	41.00	0.00	80.000		35%	103%	3.07
	Sep	127.63	41.00	0.00	80.000		32%	95%	-6.63
	Oct	135.10	41.00	0.00	80.000		30%	90%	-14.10

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Nov	132.11	41.00	0.00	80.000		31%	92%	-11.11
	Dec	130.34	41.00	0.00	80.000		31%	93%	-9.34
2025	Jan	121.89	41.00	0.00	80.000		34%	99%	-0.89
	Feb	118.52	41.00	0.00	80.000		35%	102%	2.48
	Mar	122.16	41.00	0.00	80.000		34%	99%	-1.16
	Apr	109.81	41.00	0.00	80.000		37%	110%	11.19
	May	129.35	41.00	0.00	80.000		32%	94%	-8.35
	Jun	136.26	41.00	0.00	80.000		30%	89%	-15.26
	Jul	119.58	41.00	0.00	80.000		34%	101%	1.42
	Aug	121.42	41.00	0.00	80.000		34%	100%	-0.42
	Sep	131.41	41.00	0.00	80.000		31%	92%	-10.41
	Oct	139.10	41.00	0.00	80.000		29%	87%	-18.10
	Nov	136.02	41.00	0.00	80.000		30%	89%	-15.02
	Dec	134.20	41.00	0.00	80.000		31%	90%	-13.20
2026	Jan	125.57	41.00	0.00	80.000		33%	96%	-4.57
	Feb	122.10	41.00	0.00	80.000		34%	99%	-1.10
	Mar	125.84	41.00	0.00	80.000		33%	96%	-4.84
	Apr	113.13	6.00	0.00	80.000		5%	76%	-27.13
	May	133.25	6.00	0.00	80.000		5%	65%	-47.25
	Jun	140.37	6.00	0.00	80.000		4%	61%	-54.37
	Jul	123.19	6.00	0.00	80.000		5%	70%	-37.19
	Aug	125.09	6.00	0.00	80.000		5%	69%	-39.09
	Sep	135.37	6.00	0.00	80.000		4%	64%	-49.37
	Oct	143.30	6.00	0.00	80.000		4%	60%	-57.30
	Nov	140.13	6.00	0.00	80.000		4%	61%	-54.13
	Dec	138.26	6.00	0.00	80.000		4%	62%	-52.26
2027	Jan	129.34	6.00	0.00	80.000		5%	66%	-43.34
	Feb	125.77	6.00	0.00	80.000		5%	68%	-39.77
	Mar	129.62	6.00	0.00	80.000		5%	66%	-43.62
	Apr	116.52	6.00	0.00	80.000		5%	74%	-30.52

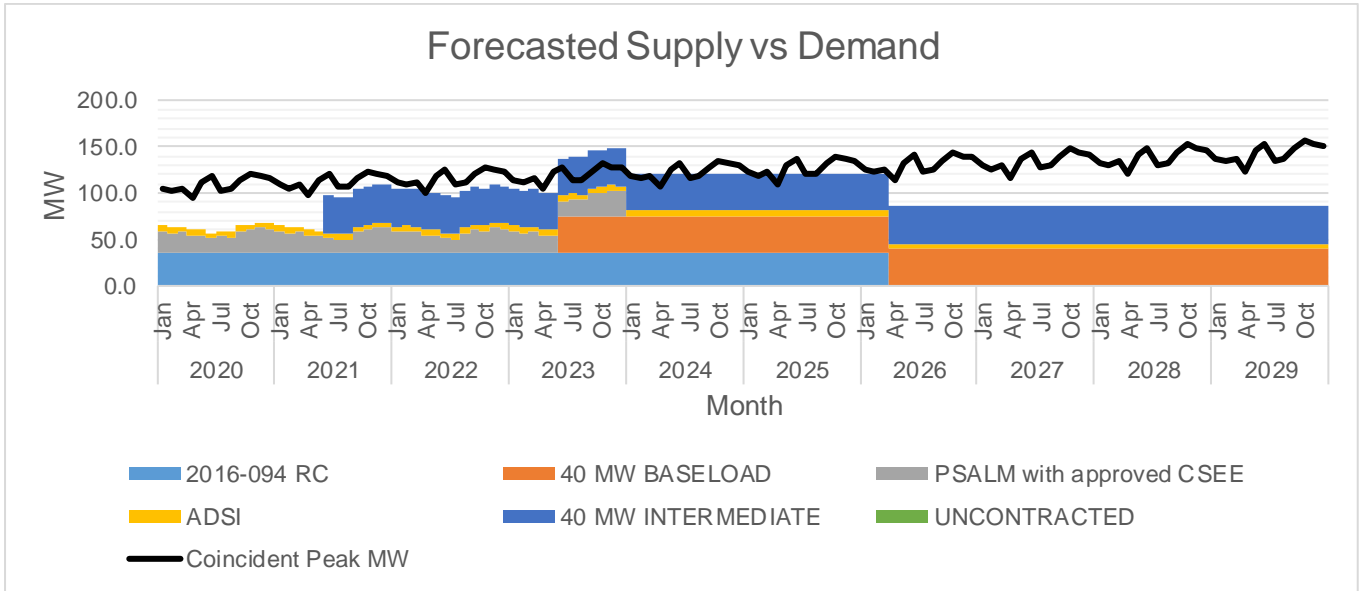
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	May	137.25	6.00	0.00	80.000		4%	63%	-51.25
	Jun	144.58	6.00	0.00	80.000		4%	59%	-58.58
	Jul	126.89	6.00	0.00	80.000		5%	68%	-40.89
	Aug	128.84	6.00	0.00	80.000		5%	67%	-42.84
	Sep	139.44	6.00	0.00	80.000		4%	62%	-53.44
	Oct	147.60	6.00	0.00	80.000		4%	58%	-61.60
	Nov	144.34	6.00	0.00	80.000		4%	60%	-58.34
	Dec	142.40	6.00	0.00	80.000		4%	60%	-56.40
2028	Jan	133.20	6.00	0.00	80.000		5%	65%	-47.20
	Feb	129.52	6.00	0.00	80.000		5%	66%	-43.52
	Mar	133.48	6.00	0.00	80.000		4%	64%	-47.48
	Apr	119.99	6.00	0.00	80.000		5%	72%	-33.99
	May	141.34	6.00	0.00	80.000		4%	61%	-55.34
	Jun	148.89	6.00	0.00	80.000		4%	58%	-62.89
	Jul	130.67	6.00	0.00	80.000		5%	66%	-44.67
	Aug	132.68	6.00	0.00	80.000		5%	65%	-46.68
	Sep	143.59	6.00	0.00	80.000		4%	60%	-57.59
	Oct	152.00	6.00	0.00	80.000		4%	57%	-66.00
	Nov	148.64	6.00	0.00	80.000		4%	58%	-62.64
	Dec	146.65	6.00	0.00	80.000		4%	59%	-60.65
2029	Jan	137.23	6.00	0.00	80.000		4%	63%	-51.23
	Feb	133.43	6.00	0.00	80.000		4%	64%	-47.43
	Mar	137.52	6.00	0.00	80.000		4%	63%	-51.52
	Apr	123.63	6.00	0.00	80.000		5%	70%	-37.63
	May	145.62	6.00	0.00	80.000		4%	59%	-59.62
	Jun	153.40	6.00	0.00	80.000		4%	56%	-67.40
	Jul	134.62	6.00	0.00	80.000		4%	64%	-48.62
	Aug	136.70	6.00	0.00	80.000		4%	63%	-50.70
	Sep	147.94	6.00	0.00	80.000		4%	58%	-61.94
	Oct	156.60	6.00	0.00	80.000		4%	55%	-70.60

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Nov	153.14	6.00	0.00	80.000		4%	56%	-67.14
	Dec	151.09	6.00	0.00	80.000		4%	57%	-65.09

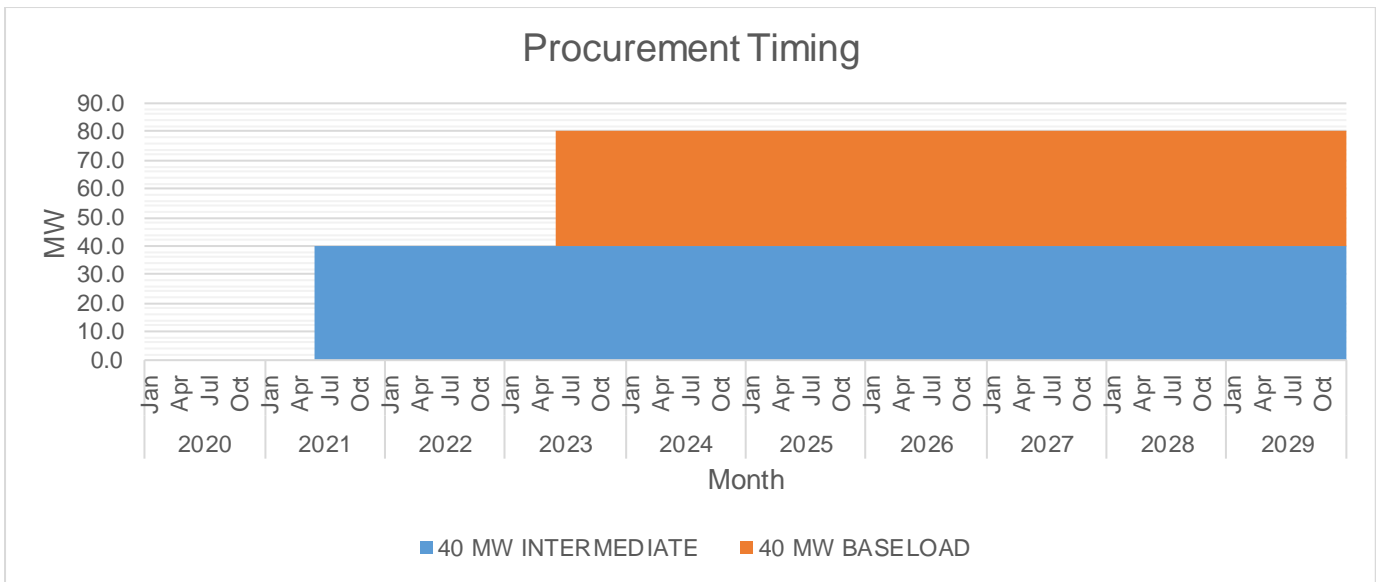
The Peak Demand was forecasted using different methods of load forecasting and was assumed to occur on the month of June due to high demand consumption. Monthly Peak Demand is at its lowest on the month of February due to no operation of large industries particularly in canning factory due to fishing ban in the city. In general, Peak Demand is expected to grow at a rate of 3.04% annually.



The available supply is generally below the Peak Demand. This is because the energy provided from existing power supply contract is deficient to meet the energy requirement of ZAMCELO. However, ZAMCELO with the help of its Investment Management, plan to conduct Competitive Selection Process (CSP) to meet the power requirement of the cooperative and to provide our Member-Consumer-Owners of affordable and reliable energy supply.



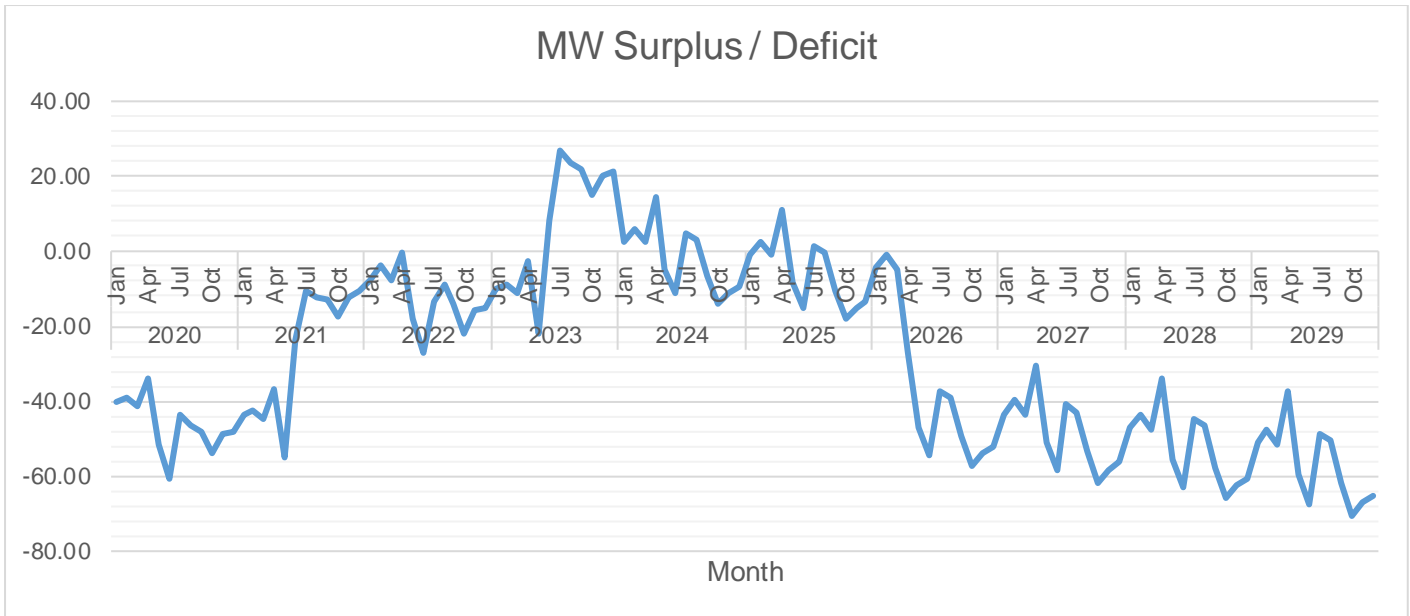
Of the available supply, the largest is 35 MW from San Miguel Consolidated Power Corporation. This is followed by 14.9 MW based on the average contracted demand from Power Sectors Assets and Liabilities Management Corporation.



The first wave of supply procurement will be for 40 MW Intermediate planned to be available by the month of June. This will be followed by 40 MW Baseload.



Currently, there is under-contacting by 62%. The highest target contracting level is 124% which is expected to occur on July 2023. The lowest target contracting level is 48% which is expected to occur on June 2020.



Currently, there is under-contacting by 40.37 MW. The highest deficit is 70.60 MW which is expected to occur on the month of October 2029. The lowest surplus is 26.86 MW which is expected to occur on the month of June 2023.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2020	Jan	60,359	48,549	9,577	3.70%	16.48%
	Feb	55,092	44,305	8,687	3.81%	16.39%
	Mar	54,496	44,582	7,855	3.78%	14.98%
	Apr	54,241	43,231	8,978	3.75%	17.20%
	May	58,941	46,840	9,901	3.73%	17.45%
	Jun	62,728	49,762	10,597	3.78%	17.56%
	Jul	63,660	52,359	8,985	3.64%	14.65%
	Aug	60,548	48,344	10,021	3.60%	17.17%
	Sep	62,005	50,731	8,993	3.68%	15.06%
	Oct	64,195	52,233	9,535	3.78%	15.44%
	Nov	62,109	50,339	9,427	3.77%	15.77%
	Dec	59,304	49,578	7,489	3.77%	13.12%
2021	Jan	60,545	49,844	8,390	3.82%	14.41%
	Feb	55,279	45,488	7,611	3.94%	14.33%
	Mar	54,798	45,772	6,881	3.91%	13.07%
	Apr	54,363	44,388	7,865	3.88%	15.05%
	May	59,047	48,098	8,674	3.85%	15.28%
	Jun	62,826	51,097	9,284	3.89%	15.38%
	Jul	64,045	53,772	7,871	3.75%	12.77%
	Aug	60,675	49,640	8,779	3.72%	15.03%
	Sep	62,332	52,089	7,879	3.79%	13.14%
	Oct	64,492	53,627	8,353	3.89%	13.48%
	Nov	62,365	51,681	8,259	3.89%	13.78%
	Dec	59,793	50,902	6,561	3.90%	11.42%
2022	Jan	60,608	51,050	7,178	3.93%	12.33%
	Feb	55,354	46,591	6,512	4.07%	12.26%
	Mar	54,989	46,882	5,887	4.04%	11.16%
	Apr	54,374	45,466	6,729	4.01%	12.89%

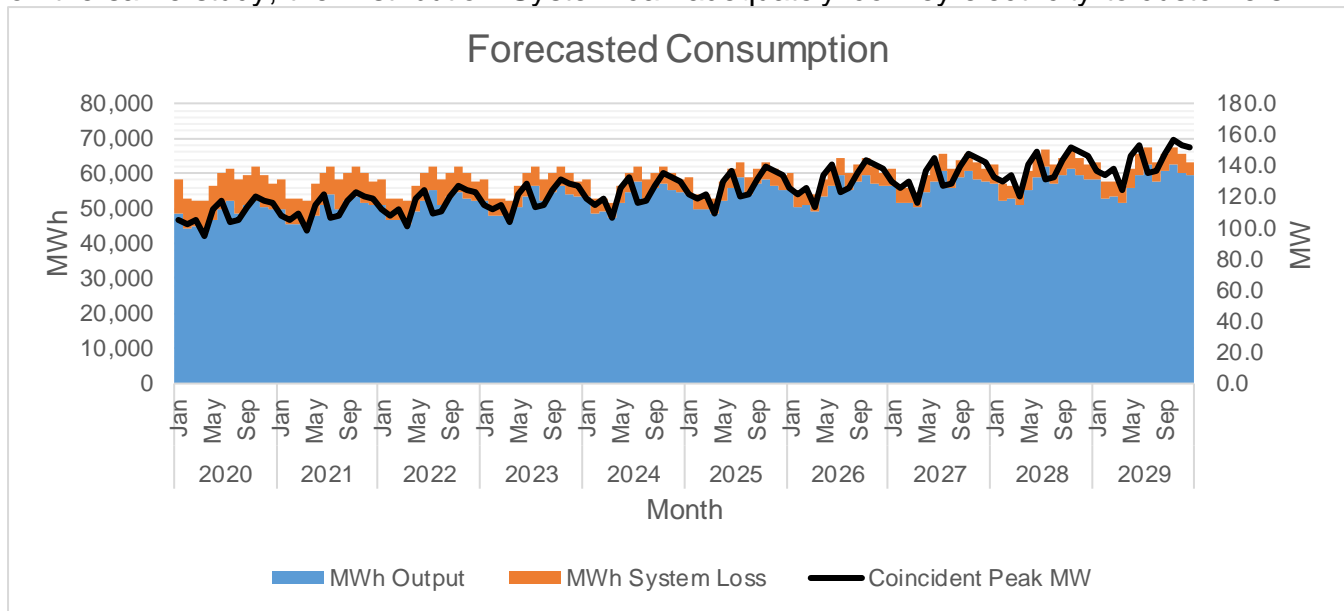
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	May	59,036	49,273	7,421	3.97%	13.09%
	Jun	62,798	52,344	7,943	4.00%	13.18%
	Jul	64,305	55,094	6,735	3.85%	10.89%
	Aug	60,681	50,849	7,511	3.82%	12.87%
	Sep	62,535	53,356	6,741	3.90%	11.22%
	Oct	64,659	54,927	7,147	4.00%	11.51%
	Nov	62,496	52,932	7,066	4.00%	11.78%
	Dec	60,162	52,136	5,613	4.01%	9.72%
2023	Jan	60,589	52,194	5,954	4.03%	10.24%
	Feb	55,354	47,637	5,401	4.19%	10.18%
	Mar	55,106	47,934	4,883	4.15%	9.25%
	Apr	54,310	46,490	5,581	4.12%	10.72%
	May	58,944	50,388	6,155	4.07%	10.89%
	Jun	74,593	53,526	6,588	19.41%	10.96%
	Jul	78,026	56,348	5,586	20.62%	9.02%
	Aug	77,505	51,997	6,230	24.87%	10.70%
	Sep	79,738	54,559	5,591	24.57%	9.29%
	Oct	81,750	56,160	5,927	24.05%	9.55%
	Nov	81,581	54,119	5,860	26.48%	9.77%
	Dec	81,575	53,307	4,655	28.94%	8.03%
2024	Jan	66,092	53,284	4,722	12.23%	8.14%
	Feb	61,828	48,632	4,283	14.41%	8.09%
	Mar	67,332	48,936	3,873	21.57%	7.33%
	Apr	65,160	47,465	4,427	20.36%	8.53%
	May	67,332	51,449	4,882	16.34%	8.67%
	Jun	65,160	54,652	5,225	8.11%	8.73%
	Jul	67,332	57,542	4,430	7.96%	7.15%
	Aug	67,332	53,090	4,941	13.81%	8.51%
	Sep	65,160	55,704	4,434	7.71%	7.37%
	Oct	67,332	57,334	4,701	7.87%	7.58%
	Nov	65,160	55,248	4,648	8.08%	7.76%
	Dec	66,092	54,422	3,692	12.07%	6.35%
2025	Jan	66,092	54,324	4,820	10.51%	8.15%
	Feb	59,696	49,583	4,372	9.62%	8.10%
	Mar	67,332	49,892	3,953	20.03%	7.34%
	Apr	65,160	48,395	4,518	18.80%	8.54%
	May	67,332	52,462	4,983	14.68%	8.67%
	Jun	65,160	55,727	5,333	6.29%	8.73%
	Jul	67,332	58,682	4,522	6.13%	7.15%
	Aug	67,332	54,133	5,043	12.11%	8.52%
	Sep	65,160	56,797	4,526	5.89%	7.38%
	Oct	67,332	58,454	4,798	6.06%	7.59%
	Nov	65,160	56,326	4,744	6.28%	7.77%
	Dec	66,092	55,486	3,769	10.35%	6.36%
2026	Jan	66,092	55,320	4,913	8.87%	8.16%
	Feb	59,696	50,492	4,457	7.95%	8.11%
	Mar	67,332	50,807	4,029	18.56%	7.35%



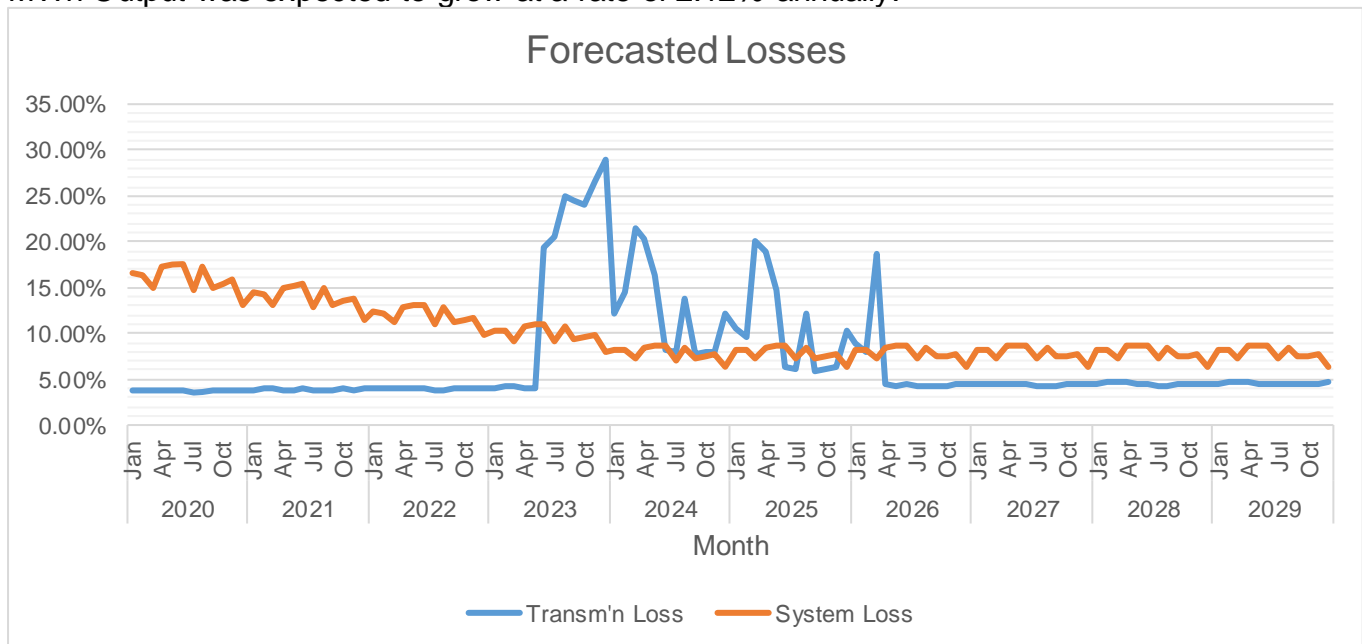
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Apr	56,387	49,285	4,606	4.43%	8.55%
	May	61,173	53,431	5,079	4.35%	8.68%
	Jun	65,029	56,755	5,436	4.36%	8.74%
	Jul	67,199	59,774	4,609	4.19%	7.16%
	Aug	62,905	55,132	5,141	4.18%	8.53%
	Sep	65,232	57,843	4,613	4.26%	7.39%
	Oct	67,348	59,527	4,891	4.35%	7.59%
	Nov	65,030	57,358	4,836	4.36%	7.78%
	Dec	63,117	56,504	3,842	4.39%	6.37%
2027	Jan	64,079	56,275	5,002	4.37%	8.16%
	Feb	58,580	51,365	4,538	4.57%	8.12%
	Mar	58,441	51,684	4,103	4.54%	7.35%
	Apr	57,420	50,139	4,689	4.51%	8.55%
	May	62,293	54,361	5,172	4.43%	8.69%
	Jun	66,215	57,742	5,535	4.44%	8.75%
	Jul	68,429	60,821	4,693	4.26%	7.16%
	Aug	64,052	56,090	5,234	4.26%	8.54%
	Sep	66,418	58,846	4,697	4.33%	7.39%
	Oct	68,567	60,555	4,980	4.42%	7.60%
	Nov	66,208	58,348	4,924	4.43%	7.78%
	Dec	64,262	57,481	3,912	4.47%	6.37%
2028	Jan	65,176	57,193	5,088	4.44%	8.17%
	Feb	59,589	52,203	4,616	4.65%	8.12%
	Mar	59,446	52,528	4,173	4.62%	7.36%
	Apr	58,411	50,960	4,770	4.59%	8.56%
	May	63,369	55,256	5,260	4.50%	8.69%
	Jun	67,354	58,690	5,630	4.50%	8.75%
	Jul	69,610	61,828	4,774	4.32%	7.17%
	Aug	65,154	57,012	5,324	4.32%	8.54%
	Sep	67,557	59,811	4,778	4.39%	7.40%
	Oct	69,739	61,544	5,066	4.49%	7.61%
	Nov	67,340	59,299	5,009	4.50%	7.79%
	Dec	65,363	58,420	3,979	4.54%	6.38%
2029	Jan	66,232	58,078	5,171	4.50%	8.18%
	Feb	60,560	53,011	4,691	4.72%	8.13%
	Mar	60,415	53,341	4,241	4.69%	7.37%
	Apr	59,366	51,751	4,848	4.66%	8.56%
	May	64,405	56,117	5,346	4.57%	8.70%
	Jun	68,451	59,603	5,722	4.57%	8.76%
	Jul	70,748	62,798	4,852	4.38%	7.17%
	Aug	66,215	57,899	5,411	4.39%	8.55%
	Sep	68,654	60,741	4,856	4.45%	7.40%
	Oct	70,867	62,497	5,148	4.55%	7.61%
	Nov	68,429	60,216	5,090	4.56%	7.79%
	Dec	66,423	59,324	4,044	4.60%	6.38%

MWh Offtake was forecasted using different methods in forecasting. The assumed load factor is 65%.

System Loss was calculated through a Load Flow Study conducted on Synergy software. Based on the same study, the Distribution System can adequately convey electricity to customers.



MWh Output was expected to grow at a rate of 2.12% annually.



Transmission Loss is expected to range from 3.60% to 4.65%, however abnormalities in the graph resulted to skyrocketing of transmission line losses between the years of 2023 and 2026 are due to the existing energy contracted with the power supplier and the additional energy to be procured through the Competitive Selection Process (CSP). System Loss is expected to range from 17.56% to 6.38% by the year 2029.

## Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
PSALM with approved CSEE	Intermediate	Power Sector Assets and Liabilities Management Corporation	14.90	149,396	12/26/2018	12/25/2020
2016-094 RC	Base	San Miguel Consolidated Power Corporation	35.00	266,070	3/14/2016	3/14/2026
ADSI	Intermediate	Enfinity Phils. Renewable Resources, Inc.	6.00	41,823	3/1/2016	3/1/2036
UNCONTRACTED	Peaking	Other			1/1/2019	6/1/2021

The PSA with Power Sector Assets and Liabilities Management filed with ERC under CSEE was procured through SC Decision G.R. No. 227670, 3 May 2019. It was selected to provide for intermediate requirements due to its capacity to supply for the necessary demand of the cooperative. The actual billed overall monthly charge under the PSA ranged from 0.074P/kWh to 2.469 P/KWh in the same period.

The PSA with San Miguel Consolidated Power Corporation filed with ERC under case no. 2016-094 was procured through ERC application for 10 years and with interim relief order and with existing agreement for the additional supply of 35 MW on top of the existing 35 MW contract as non-firm. It was selected to provide for baseload requirement due to its capacity to supply for the necessary demand of the cooperative. The actual billed overall monthly charge under the PSA ranged from 4.91 P/Kwh TO 5.38 P/kwh in the same period.

The PSA with Alterpower Digos Solar, Inc. (ADSI) formerly known as Enfinity Philippines Renewable Resources Fourth, Inc. with RESA Average daily power delivered from 6AM to 5PM. Upon the entry of WESM, supply from ADSI will be out from the Coop's power supply portfolio. The actual billed overall monthly charge under the PSA ranged from 3.6238 P/Kwh TO 5.5202 P/kwh in the same period.

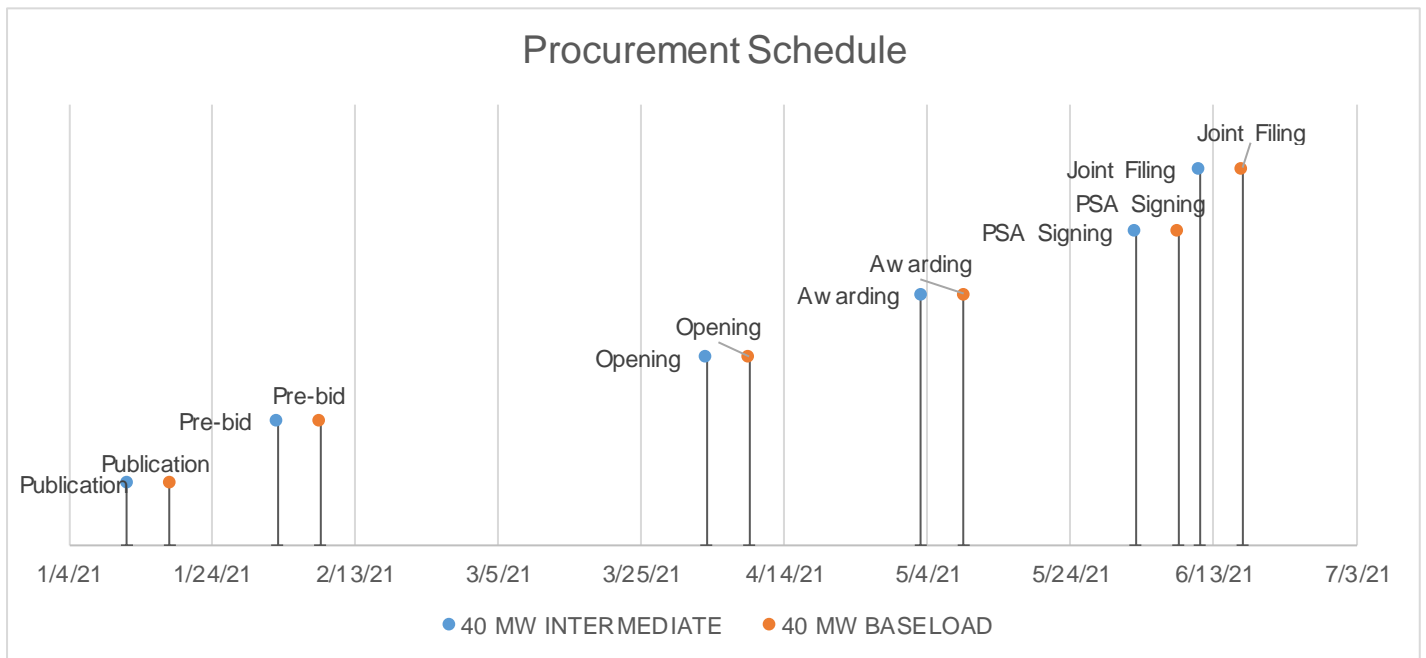
San Ramon Power Incorporated (SRPI)- with indicative supply of 85 MW, up to this time, the construction of the Plant is not yet started. The date of commercial operation is uncertain as of this time. Given a notice of breach due to unreasonable delay of delivery.

Western Mindanao Power Corporation (WMPC)- with TEN (10) years Contract (2016-2025) with an option to reduce or terminate the contract when SRPI will start supplying power. The PSA with WMPC is now in dispute with ERC. Compromised agreement in placed.

GN Power Kauswagan (GNPK) -affected by SC Decision \_G.R. No. 227670, 3 May 2019, ERC application for 25 years contract. Affected by ABP v. MERALCO case as agreement finalised after June 30 2015 without CSP.

Therma South, Inc. (TSI) -Aboitiz Power with ERC application for 25 years contract, plus 4mW as Non-firm power supply. (Waiting for ERC decision) affected by ABP v, MERALCO case as agreement finalised after June 30 2015 without CSP.

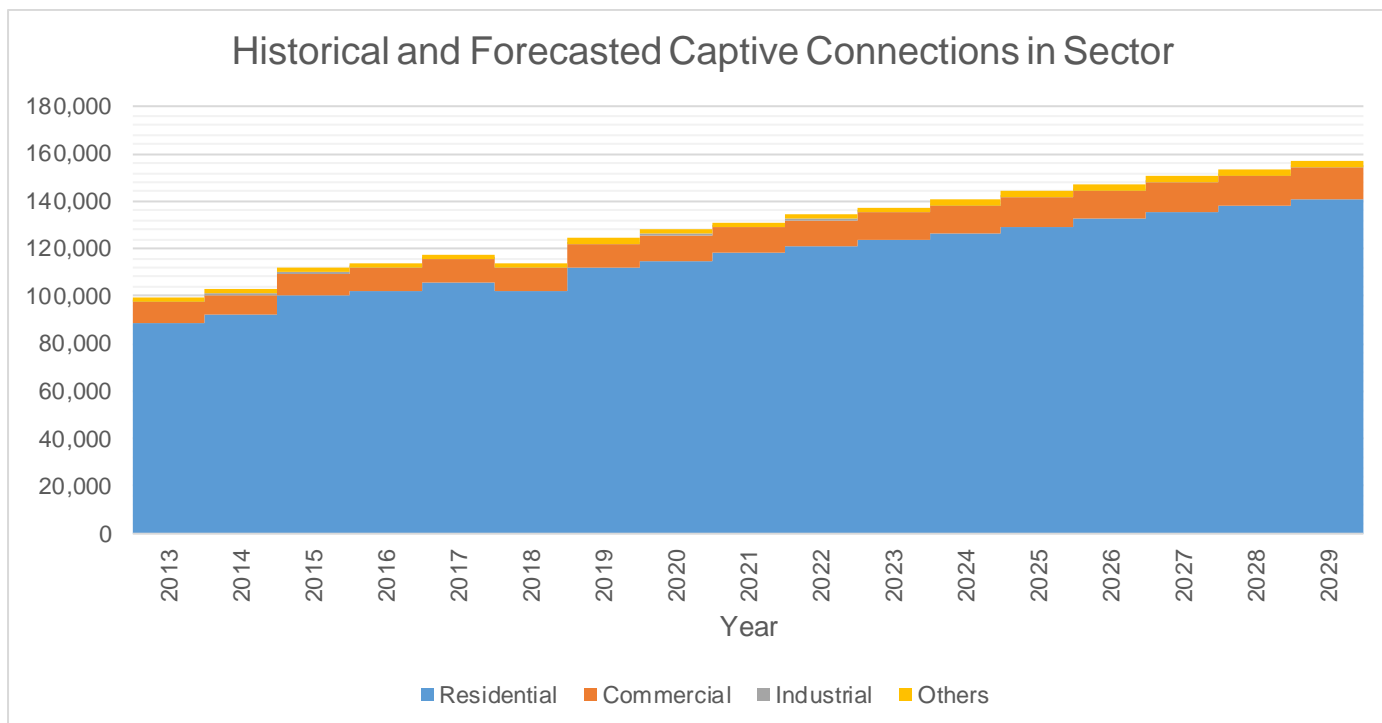
	40 MW INTERMEDIATE	40 MW BASELOAD
Type	Intermediate	Base
Minimum MW		
Minimum MWh/yr		
PSA Start	5/30/2021	6/5/2021
PSA End	5/30/2036	6/5/2031
Publication	1/12/2021	1/18/2021
Pre-bid	2/2/2021	2/8/2021
Opening	4/3/2021	4/9/2021
Awarding	5/3/2021	5/9/2021
PSA Signing	6/2/2021	6/8/2021
Joint Filing	6/11/2021	6/17/2021



For the procurement of 40 MW Intermediate of supply which is planned to be available on 2021, the first publication or launch of CSP will be on January 2021. Joint filing is planned on June 11 2021, or 150 days later, in accordance with DOE's 2018 CSP Policy.

For the procurement of 40 MW Baseload of supply which is planned to be available on 2023, the first publication or launch of CSP will be on January 2021. Joint filing is planned on June 17 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 2.97% annually. Said customer class is expected to account for 90.06% of the total consumption.

The number of Commercial connections is expected to grow at a rate of 2.69% annually. Said customer class is expected to account for 8.25% of the total consumption.

The number of Industrial connections is expected to grow at a rate of 1.34% annually. Said customer class is expected to account for 0.13% of the total consumption.

The number of Others connections is expected to grow at a rate of 2.41% annually. Said customer class is expected to account for 1.56% of the total consumption.