Power Supply Procurement Plan 2024

Zamboanga City Electric Cooperative, Inc. (ZAMCELCO)

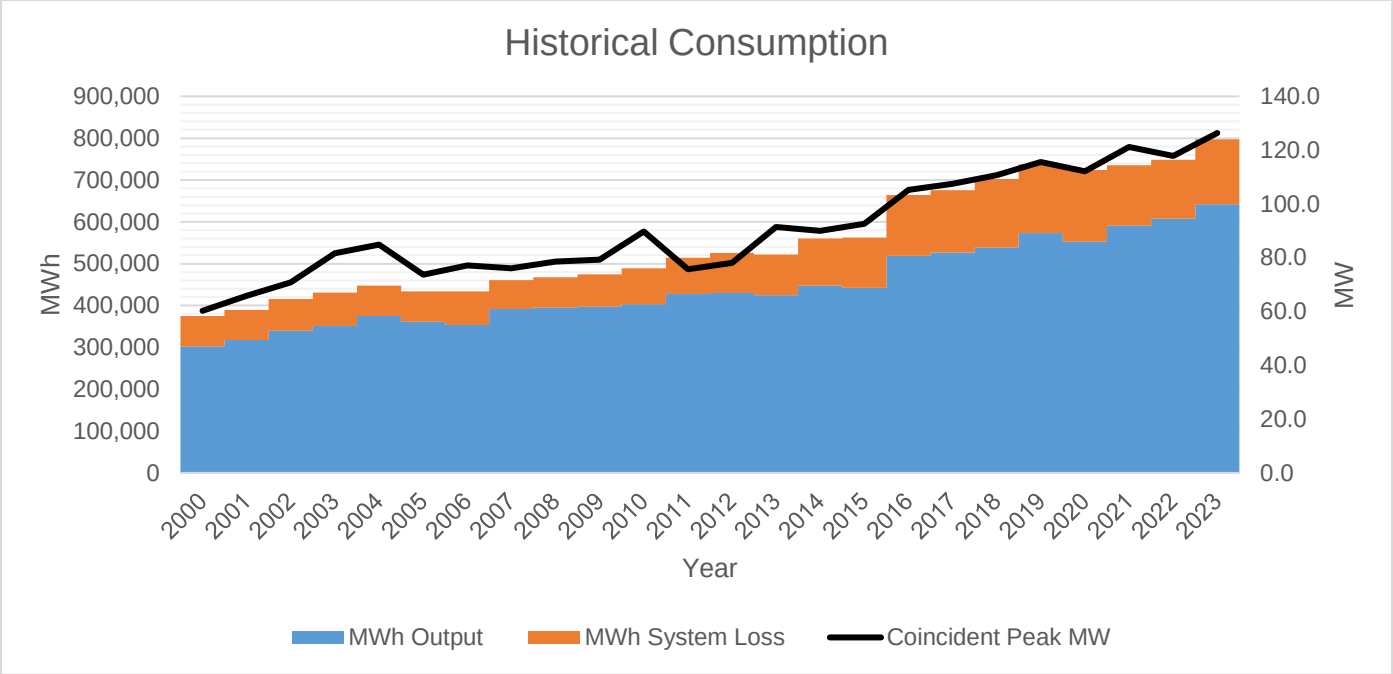
On Grid

Historical Consumption Data

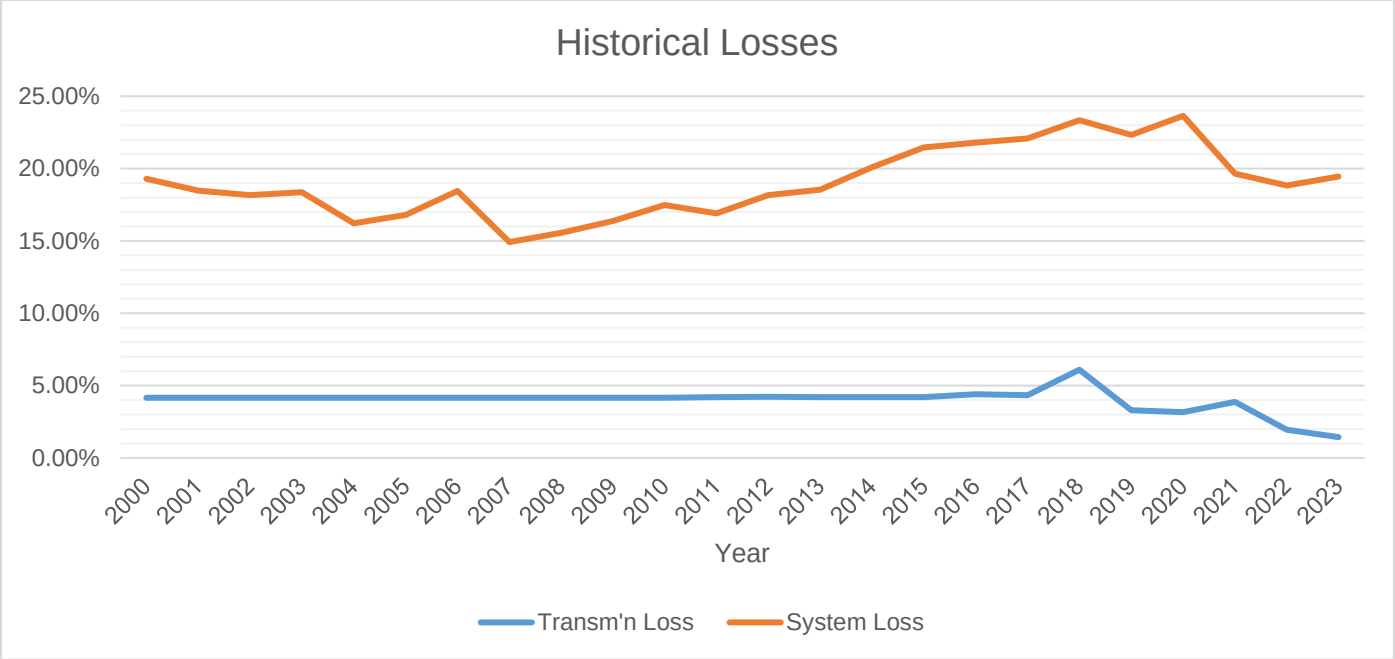
	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	60.27	391,329	0	375,016	302,638	72,378	71%	0.00%	4.17%	19.30%
2001	65.82	406,640	0	389,689	317,691	71,998	68%	0.00%	4.17%	18.48%
2002	70.88	433,499	0	415,428	339,977	75,450	67%	0.00%	4.17%	18.16%
2003	81.62	449,396	0	430,662	351,543	79,119	60%	0.00%	4.17%	18.37%
2004	84.92	467,042	0	447,573	374,986	72,587	60%	0.00%	4.17%	16.22%
2005	73.64	452,670	0	433,800	360,941	72,859	67%	0.00%	4.17%	16.80%
2006	77.13	452,829	0	433,952	353,822	80,130	64%	0.00%	4.17%	18.47%
2007	76.05	480,766	0	460,724	391,973	68,751	69%	0.00%	4.17%	14.92%
2008	78.53	488,127	0	467,779	395,022	72,757	68%	0.00%	4.17%	15.55%
2009	79.31	495,337	0	474,688	396,970	77,718	68%	0.00%	4.17%	16.37%
2010	89.79	510,152	0	488,885	403,442	85,444	62%	0.00%	4.17%	17.48%
2011	75.67	536,940	0	514,413	427,500	86,913	78%	0.00%	4.20%	16.90%
2012	78.08	548,921	0	525,680	430,201	95,479	77%	0.00%	4.23%	18.16%
2013	91.39	544,697	0	521,836	425,101	96,735	65%	0.00%	4.20%	18.54%
2014	89.99	584,646	0	560,109	447,625	112,484	71%	0.00%	4.20%	20.08%
2015	92.60	587,510	0	562,840	441,968	120,872	69%	0.00%	4.20%	21.48%
2016	105.25	694,556	0	663,918	519,202	144,716	72%	0.00%	4.41%	21.80%
2017	107.53	706,103	0	675,535	526,293	149,242	72%	0.00%	4.33%	22.09%
2018	110.66	748,179	0	702,575	538,483	164,092	72%	0.00%	6.10%	23.36%
2019	115.64	762,711	0	737,554	572,891	164,662	73%	0.00%	3.30%	22.33%
2020	112.15	747,656	0	724,060	552,825	171,234	74%	0.00%	3.16%	23.65%
2021	121.13	765,226	0	735,619	591,027	144,592	69%	0.00%	3.87%	19.66%
2022	117.89	763,176	0	748,247	607,284	140,963	72%	0.00%	1.96%	18.84%
2023	126.36	809,100	86,299	797,474	642,279	155,195	72%	0.00%	1.44%	19.46%

Peak Demand increased from 60.27 MW in 2000 to 126.36 MW in 2023 at an average rate of 7.05% annually. MWh Offtake increased from 391,329 MWh in 2000 to 809,100 MWh in 2023 at a rate of 3.66% due to high energy consumption. Within the same period, Load Factor ranged from 60% to 78%. There was an abrupt change in consumption in 2016 due to high energy demand as well as the continues increase in the level of electrification within the franchise area.

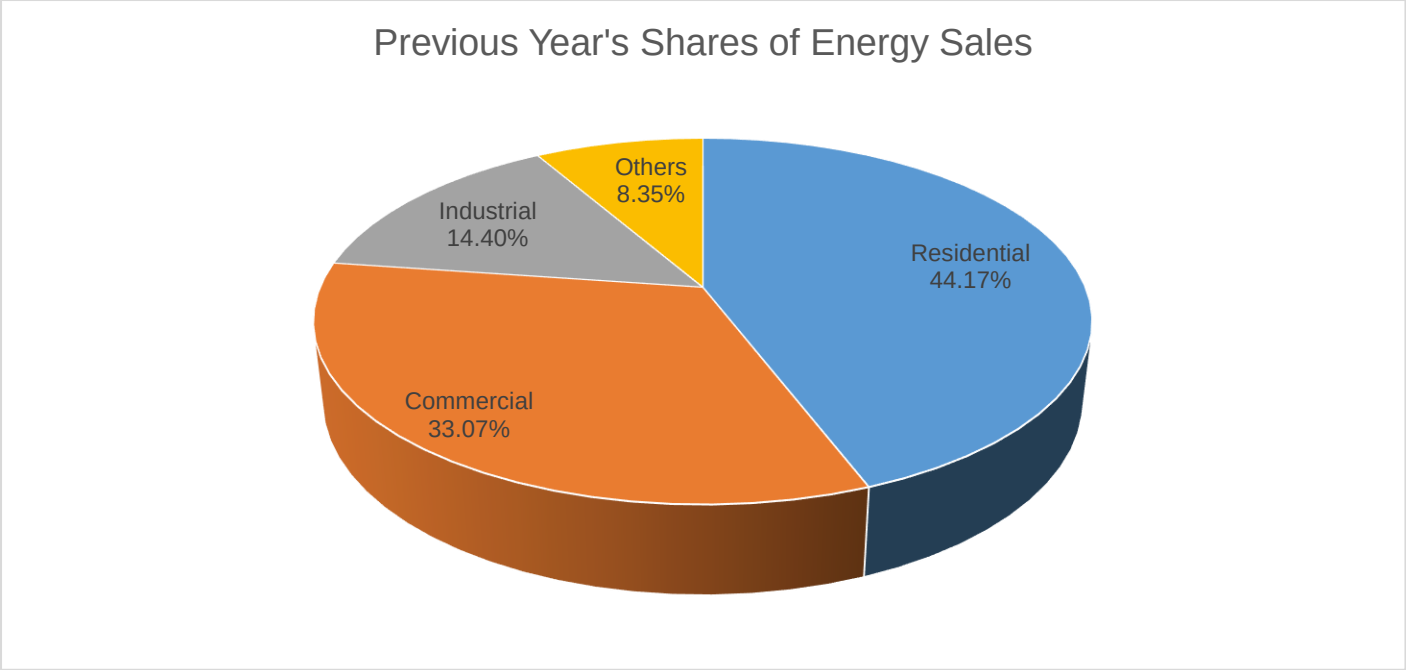
Focusing on last year's performance, Peak Demand had increased by 7.18% and as well as the Energy Sales increased by 6.02% in Energy Sales from the previous year.



MWh output increased from 2000 to 2023 at an average rate of 3.61%, while MWh system loss from the previous year has increased at a rate of 10.10% due to both technical and non-technical losses. The EC still continues to plan and provide solutions to reduce its system loss by implementing system loss reduction programs and projects to rehabilitate and expand its distribution network.

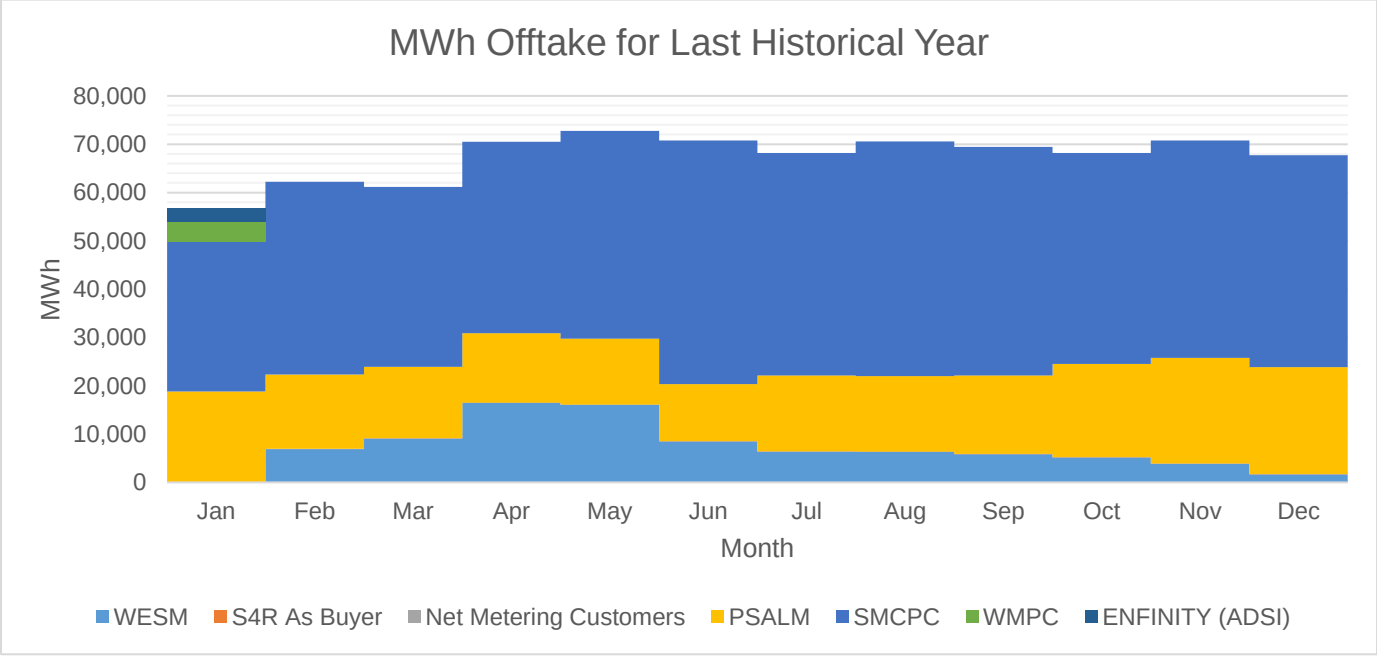


Historically, transmission loss ranged from 1.44% to 6.10%, while system loss ranged from 14.92% to 23.65%. Transmission losses peaked at 6.10% in 2018 because of high technical losses. System losses peaked at 23.65% in 2020 due to both high technical and non-technical losses as well as the adverse effect of the implementation of the community quarantine during the pandemic period. However, the technical and non-technical system losses will be addressed in the next application of the Capital Expenditure (CAPEX) for the regulatory period and other programs to reduce the system loss.



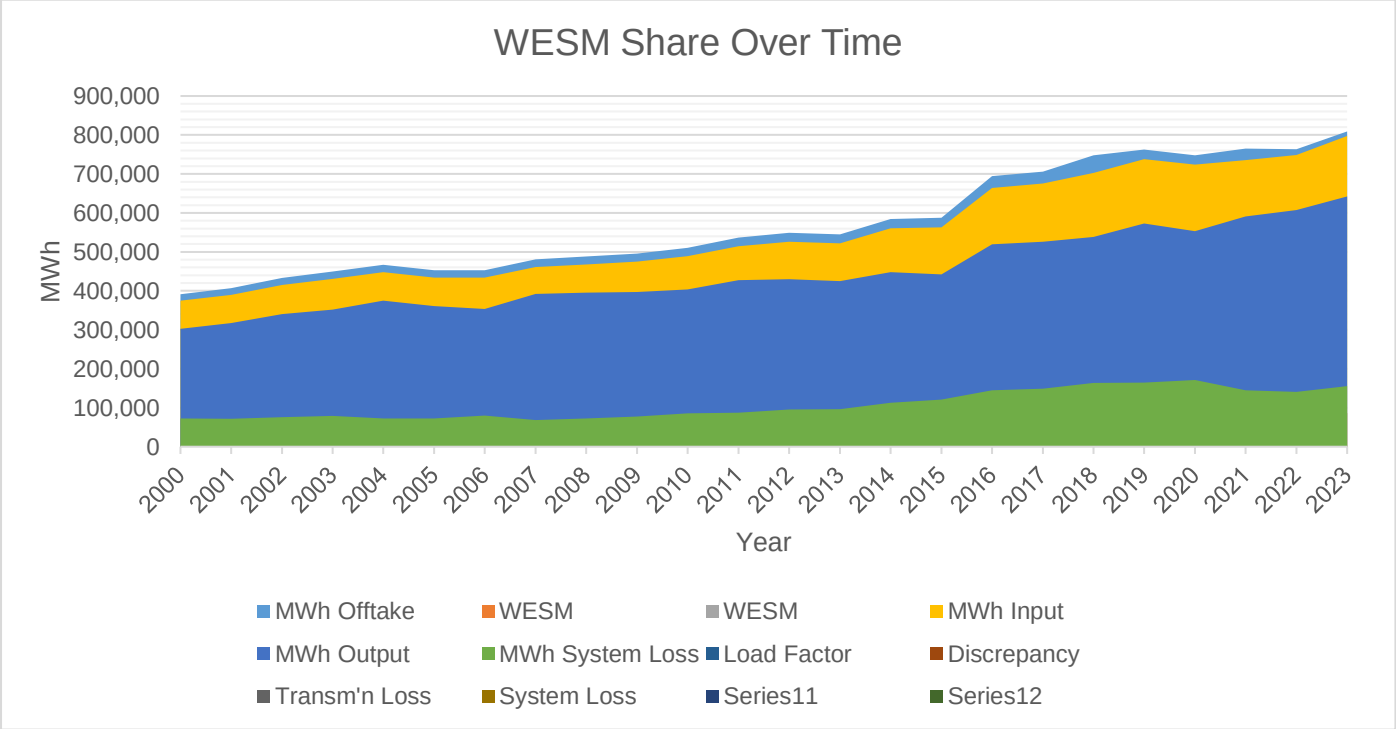
Residential customers account for the bulk of energy sales at 44.17% due to the high number of connections within the franchise area. In contrast, Others (Public building and Street lights) customers accounted for only 8.35% of energy sales due to the low number of connections.

Compared to last year, the energy share percentage of commercial had increased by 16.57% while that of industrial had decreased by 5.89%.



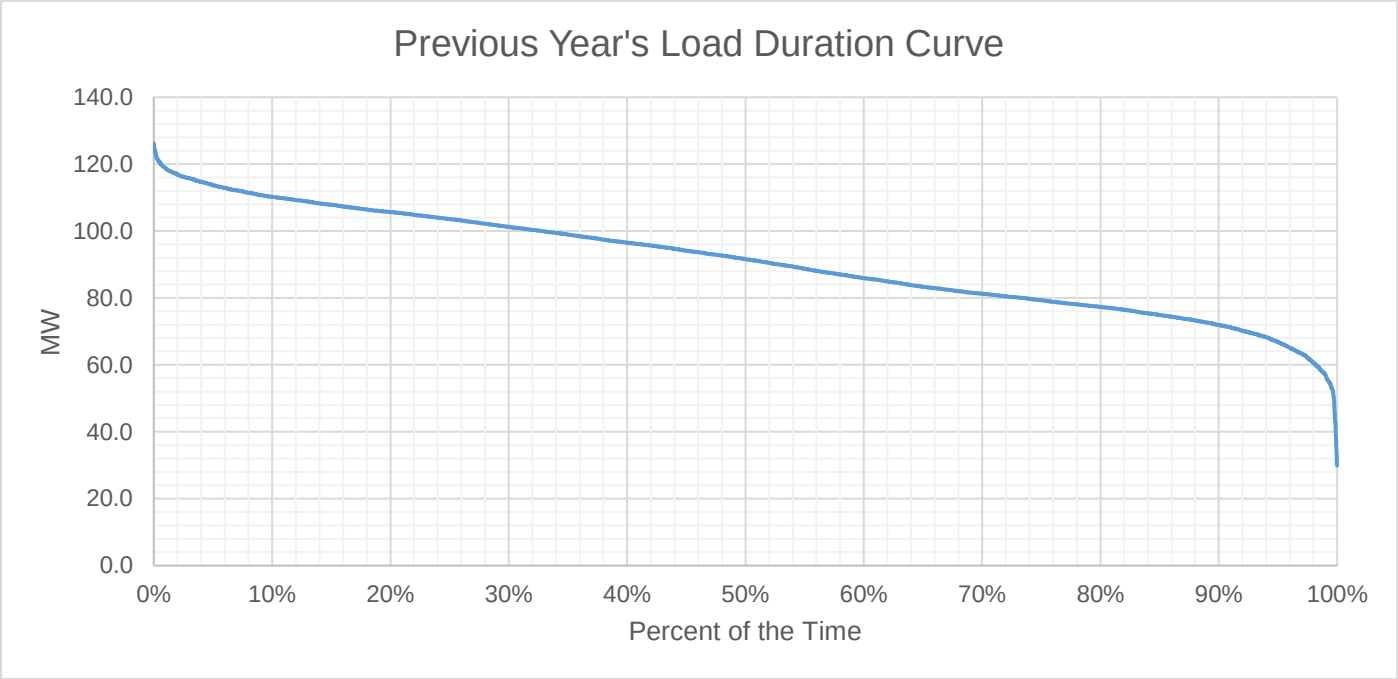
The total offtake for the last historical year is higher than the bilateral contract quantities. The deficit in total offtake was sourced from the wholesale electricity spot market (WESM). The PSA with San Miguel Consolidated Power Corporation accounts for the bulk of MWh Offtake, with an existing agreement of 35 MW contract and followed by an average of 22 MW with PSALM CSEE. However, on October 6, 2023, ZAMCELCO received a copy of Order dated March 1, 2023, in ERC Case No. 2016-094 RC, denying the Motion for Reconsideration (of the 11 September 2019 Order) dated October 11, 2019, filed by Applicants ZAMCELCO and San Miguel Power Consolidated Power Corporation (SMCPC). Hence, ZAMCELCO entered into an Emergence Power Supply Agreement (EPSA) with Malita Power, Inc. (MPI) for a contracted capacity of 85 MW for the duration of 1 year

or 12 billing periods, which started on October 26, 2023. The filed application for EPSA is in accordance with the Energy Regulatory Commission (ERC) Resolution No. 16, Series of 2023 (ERC CSP Rules) with an ECR Case No. 2023-146 RC. In addition, ZAMCELCO and PSALM is currently complying the requirements for the extension of the CSEE from 2024-2025.

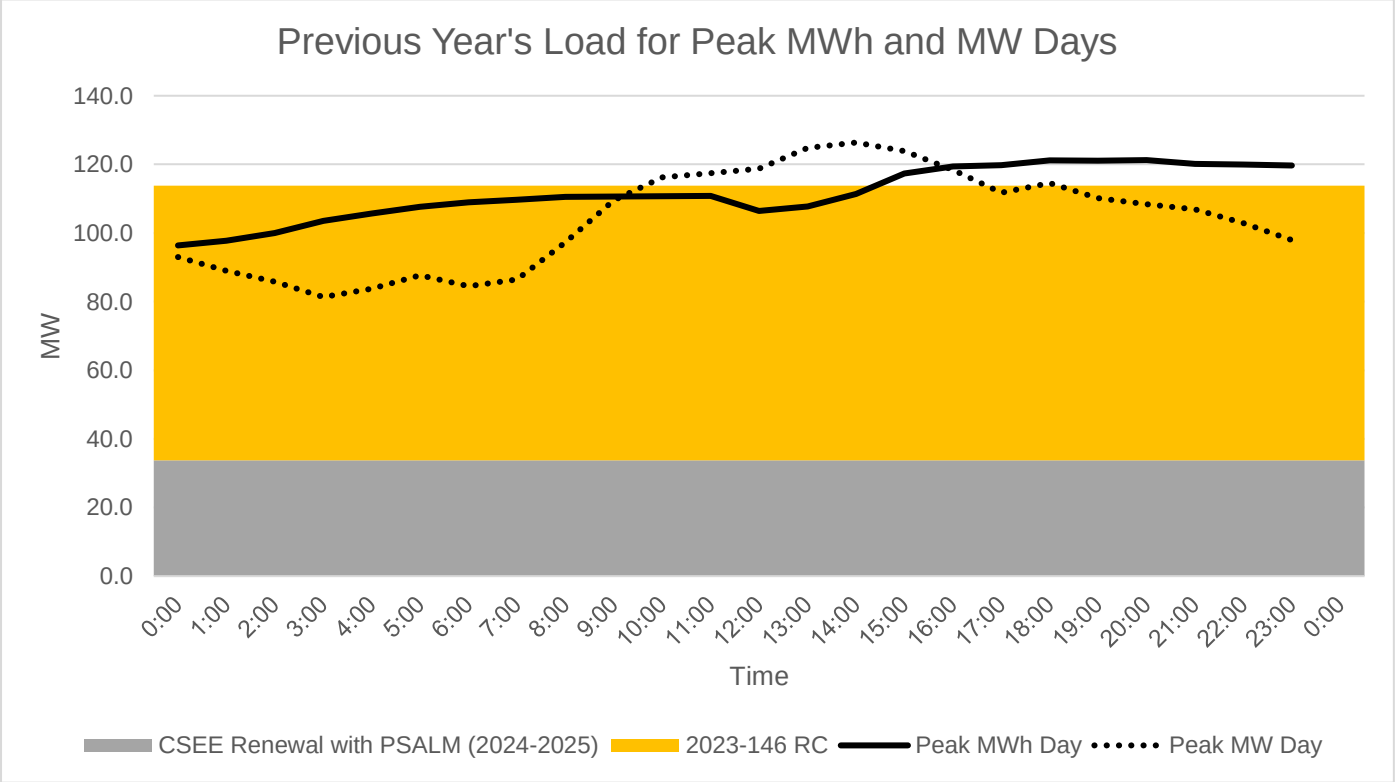


ZAMCELCO is now a direct member of WESM, having joined on August 16, 2022, prior to the start of commercial operations in Mindanao. Last January 26, 2023, the commercial operations of the WESM in Mindanao has already commenced. The deficit in the energy requirement that cannot be met with ZAMCELCO's existing bilateral contract quantities is being fulfilled by WESM. Around 10.67% of the EC's total offtake comes from WESM.

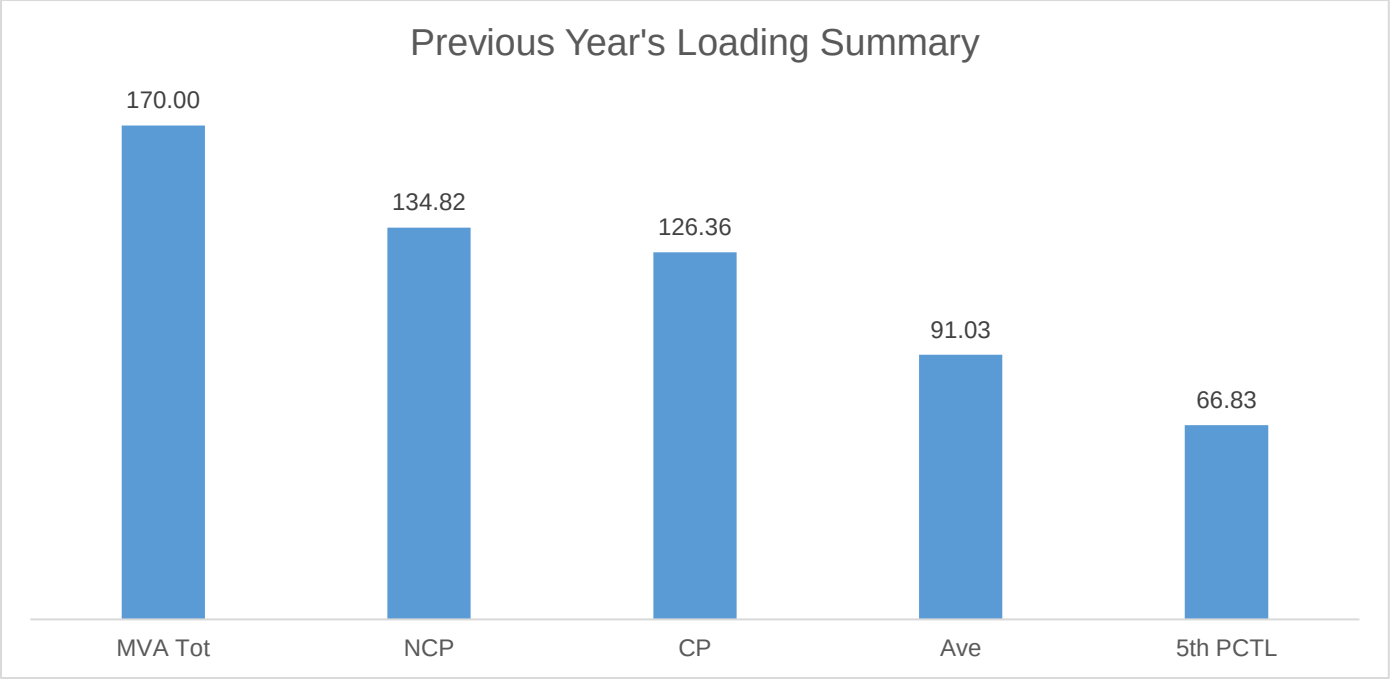
Previous Year's Load Profile



Based on the load duration curve, the demand most of the time is around 30 MW, and the maximum load is 126.36 MW from the last historical year.



Peak MW occurred on May 12, 2023, at 2:00 p.m. due to high demand consumption during that time, and it was during the summer season. Peak daily MWh occurred on June 17, 2023, due to high energy consumption. As shown in the load curves, the available supply is lower than the peak demand, specifically during peak hours.



The Non-coincident Peak Demand is 134.82 MW, which is around 77.72% of the total substation capacity of 170 MVA at a power factor of 0.98. The load factor or the ratio between the Average Load of 91.03 MW and the Non-coincident Peak Demand is 67.52%. A safe estimate of the true minimum load is the fifth percentile load of 66.83 MW which is 49.57% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
Putik	40	35.805
San Jose Gusu	20	18.090
Sangali	10	9.881
Ayala & Recodo	35	23.472
Cabatangan	20	13.601
Camanchile	45	33.976

The substations loaded at above 70% are Putik, San Jose Gusu, Sangali, and Camanchile, this loading problem will be determined by the uprating and additional MVA for the said substations as part of the 2019–2021 Capital Expenditures Application of the electric cooperative, as well as the next CAPEX application. The Ayala & Recodo, and Camanchile are both in tolerable condition. There was an additional power transformer rated at 15 MVA in Recodo Substation that was energized last year (2023), replacing the 10 MVA-rated power transformer.

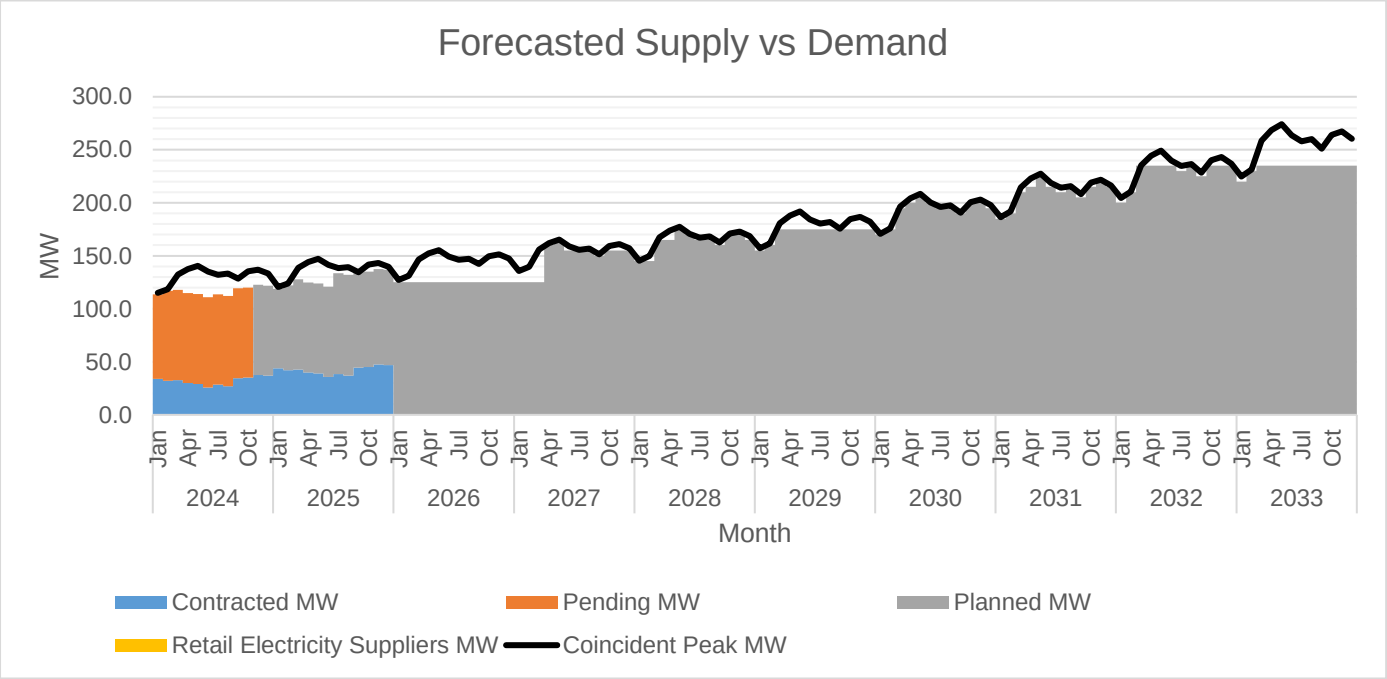
Forecasted Consumption Data

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2024	Jan	115.07	33.80	80.00	0.000		29%	99%	-1.28
	Feb	118.45	32.04	85.00	0.000		27%	99%	-1.41
	Mar	132.39	32.81	85.00	0.000		25%	89%	-14.58
	Apr	137.54	29.92	85.00	0.000		22%	84%	-22.62
	May	140.37	28.96	85.00	0.000		21%	81%	-26.41
	Jun	134.98	25.85	85.00	0.000		19%	82%	-24.14
	Jul	132.15	28.57	85.00	0.000		22%	86%	-18.59
	Aug	133.14	27.09	85.00	0.000		20%	84%	-21.05
	Sep	128.54	34.49	85.00	0.000		27%	93%	-9.04
	Oct	135.25	35.03	85.00	0.000		26%	89%	-15.21
	Nov	136.81	37.59	0.00	85.000		27%	90%	-14.22
	Dec	133.39	36.88	0.00	85.000		28%	91%	-11.51
2025	Jan	120.52	43.80	0.00	75.000		36%	99%	-1.73
	Feb	124.06	42.04	0.00	80.000		34%	98%	-2.02
	Mar	138.66	42.81	0.00	85.000		31%	92%	-10.85
	Apr	144.05	39.92	0.00	85.000		28%	87%	-19.13
	May	147.02	38.96	0.00	85.000		27%	84%	-23.06
	Jun	141.37	35.85	0.00	85.000		25%	85%	-20.53
	Jul	138.41	38.57	0.00	95.000		28%	97%	-4.84
	Aug	139.44	37.09	0.00	95.000		27%	95%	-7.35
	Sep	134.62	44.49	0.00	90.000		33%	100%	-0.13
	Oct	141.65	45.03	0.00	90.000		32%	95%	-6.62
	Nov	143.28	47.59	0.00	90.000		33%	96%	-5.69
	Dec	139.71	46.88	0.00	90.000		34%	98%	-2.83
2026	Jan	127.30	0.00	0.00	125.000		0%	98%	-2.30
	Feb	131.04	0.00	0.00	125.000		0%	95%	-6.04
	Mar	146.46	0.00	0.00	125.000		0%	85%	-21.46
	Apr	152.15	0.00	0.00	125.000		0%	82%	-27.15
	May	155.29	0.00	0.00	125.000		0%	80%	-30.29
	Jun	149.33	0.00	0.00	125.000		0%	84%	-24.33
	Jul	146.20	0.00	0.00	125.000		0%	86%	-21.20
	Aug	147.29	0.00	0.00	125.000		0%	85%	-22.29
	Sep	142.19	0.00	0.00	125.000		0%	88%	-17.19
	Oct	149.62	0.00	0.00	125.000		0%	84%	-24.62
	Nov	151.34	0.00	0.00	125.000		0%	83%	-26.34
	Dec	147.56	0.00	0.00	125.000		0%	85%	-22.56
2027	Jan	135.57	0.00	0.00	125.000		0%	92%	-10.57
	Feb	139.55	0.00	0.00	125.000		0%	90%	-14.55
	Mar	155.97	0.00	0.00	125.000		0%	80%	-30.97
	Apr	162.03	0.00	0.00	160.000		0%	99%	-2.03
	May	165.37	0.00	0.00	165.000		0%	100%	-0.37
	Jun	159.02	0.00	0.00	155.000		0%	97%	-4.02
	Jul	155.69	0.00	0.00	155.000		0%	100%	-0.69

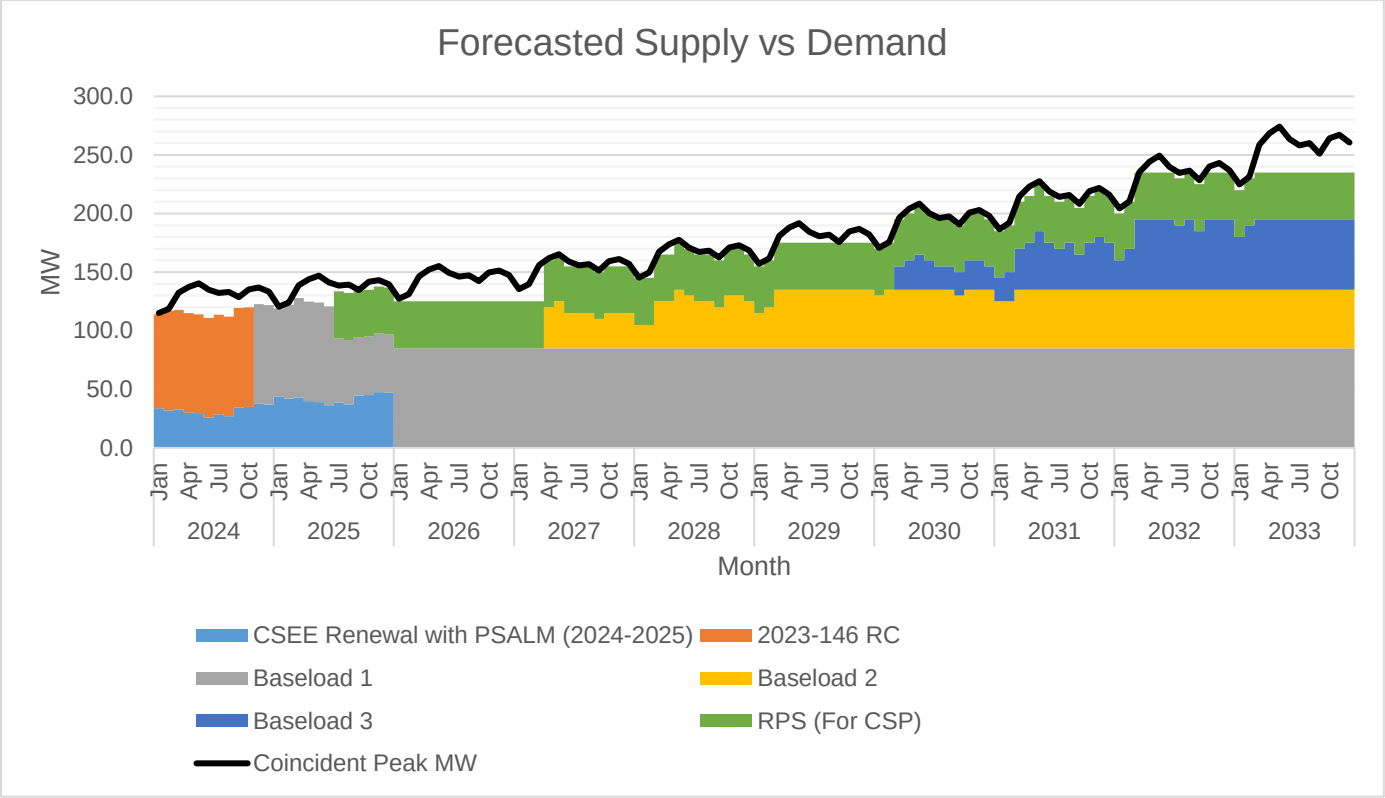
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Aug	156.85	0.00	0.00	155.000		0%	99%	-1.85
	Sep	151.43	0.00	0.00	150.000		0%	99%	-1.43
	Oct	159.33	0.00	0.00	155.000		0%	97%	-4.33
	Nov	161.17	0.00	0.00	155.000		0%	96%	-6.17
	Dec	157.15	0.00	0.00	155.000		0%	99%	-2.15
2028	Jan	145.47	0.00	0.00	145.000		0%	100%	-0.47
	Feb	149.74	0.00	0.00	145.000		0%	97%	-4.74
	Mar	167.36	0.00	0.00	165.000		0%	99%	-2.36
	Apr	173.86	0.00	0.00	165.000		0%	95%	-8.86
	May	177.45	0.00	0.00	175.000		0%	99%	-2.45
	Jun	170.64	0.00	0.00	170.000		0%	100%	-0.64
	Jul	167.06	0.00	0.00	165.000		0%	99%	-2.06
	Aug	168.30	0.00	0.00	165.000		0%	98%	-3.30
	Sep	162.48	0.00	0.00	160.000		0%	98%	-2.48
	Oct	170.97	0.00	0.00	170.000		0%	99%	-0.97
	Nov	172.94	0.00	0.00	170.000		0%	98%	-2.94
	Dec	168.62	0.00	0.00	165.000		0%	98%	-3.62
2029	Jan	157.15	0.00	0.00	155.000		0%	99%	-2.15
	Feb	161.77	0.00	0.00	160.000		0%	99%	-1.77
	Mar	180.81	0.00	0.00	175.000		0%	97%	-5.81
	Apr	187.83	0.00	0.00	175.000		0%	93%	-12.83
	May	191.70	0.00	0.00	175.000		0%	91%	-16.70
	Jun	184.34	0.00	0.00	175.000		0%	95%	-9.34
	Jul	180.48	0.00	0.00	175.000		0%	97%	-5.48
	Aug	181.82	0.00	0.00	175.000		0%	96%	-6.82
	Sep	175.54	0.00	0.00	175.000		0%	100%	-0.54
	Oct	184.70	0.00	0.00	175.000		0%	95%	-9.70
	Nov	186.83	0.00	0.00	175.000		0%	94%	-11.83
	Dec	182.17	0.00	0.00	175.000		0%	96%	-7.17
2030	Jan	170.78	0.00	0.00	170.000		0%	100%	-0.78
	Feb	175.79	0.00	0.00	175.000		0%	100%	-0.79
	Mar	196.48	0.00	0.00	195.000		0%	99%	-1.48
	Apr	204.11	0.00	0.00	200.000		0%	98%	-4.11
	May	208.32	0.00	0.00	205.000		0%	98%	-3.32
	Jun	200.32	0.00	0.00	200.000		0%	100%	-0.32
	Jul	196.12	0.00	0.00	195.000		0%	99%	-1.12
	Aug	197.58	0.00	0.00	195.000		0%	99%	-2.58
	Sep	190.75	0.00	0.00	190.000		0%	100%	-0.75
	Oct	200.71	0.00	0.00	200.000		0%	100%	-0.71
	Nov	203.03	0.00	0.00	200.000		0%	99%	-3.03
	Dec	197.96	0.00	0.00	195.000		0%	99%	-2.96
2031	Jan	186.48	0.00	0.00	185.000		0%	99%	-1.48
	Feb	191.95	0.00	0.00	190.000		0%	99%	-1.95
	Mar	214.55	0.00	0.00	210.000		0%	98%	-4.55
	Apr	222.88	0.00	0.00	215.000		0%	96%	-7.88
	May	227.48	0.00	0.00	225.000		0%	99%	-2.48

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Jun	218.75	0.00	0.00	215.000		0%	98%	-3.75
	Jul	214.16	0.00	0.00	210.000		0%	98%	-4.16
	Aug	215.75	0.00	0.00	215.000		0%	100%	-0.75
	Sep	208.30	0.00	0.00	205.000		0%	98%	-3.30
	Oct	219.17	0.00	0.00	215.000		0%	98%	-4.17
	Nov	221.70	0.00	0.00	220.000		0%	99%	-1.70
	Dec	216.16	0.00	0.00	215.000		0%	99%	-1.16
2032	Jan	204.43	0.00	0.00	200.000		0%	98%	-4.43
	Feb	210.42	0.00	0.00	210.000		0%	100%	-0.42
	Mar	235.19	0.00	0.00	235.000		0%	100%	-0.19
	Apr	244.33	0.00	0.00	235.000		0%	96%	-9.33
	May	249.37	0.00	0.00	235.000		0%	94%	-14.37
	Jun	239.79	0.00	0.00	235.000		0%	98%	-4.79
	Jul	234.76	0.00	0.00	230.000		0%	98%	-4.76
	Aug	236.51	0.00	0.00	235.000		0%	99%	-1.51
	Sep	228.34	0.00	0.00	225.000		0%	99%	-3.34
	Oct	240.26	0.00	0.00	235.000		0%	98%	-5.26
	Nov	243.03	0.00	0.00	235.000		0%	97%	-8.03
	Dec	236.96	0.00	0.00	235.000		0%	99%	-1.96
2033	Jan	224.75	0.00	0.00	220.000		0%	98%	-4.75
	Feb	231.35	0.00	0.00	230.000		0%	99%	-1.35
	Mar	258.58	0.00	0.00	235.000		0%	91%	-23.58
	Apr	268.62	0.00	0.00	235.000		0%	87%	-33.62
	May	274.16	0.00	0.00	235.000		0%	86%	-39.16
	Jun	263.64	0.00	0.00	235.000		0%	89%	-28.64
	Jul	258.11	0.00	0.00	235.000		0%	91%	-23.11
	Aug	260.03	0.00	0.00	235.000		0%	90%	-25.03
	Sep	251.04	0.00	0.00	235.000		0%	94%	-16.04
	Oct	264.15	0.00	0.00	235.000		0%	89%	-29.15
	Nov	267.20	0.00	0.00	235.000		0%	88%	-32.20
	Dec	260.52	0.00	0.00	235.000		0%	90%	-25.52

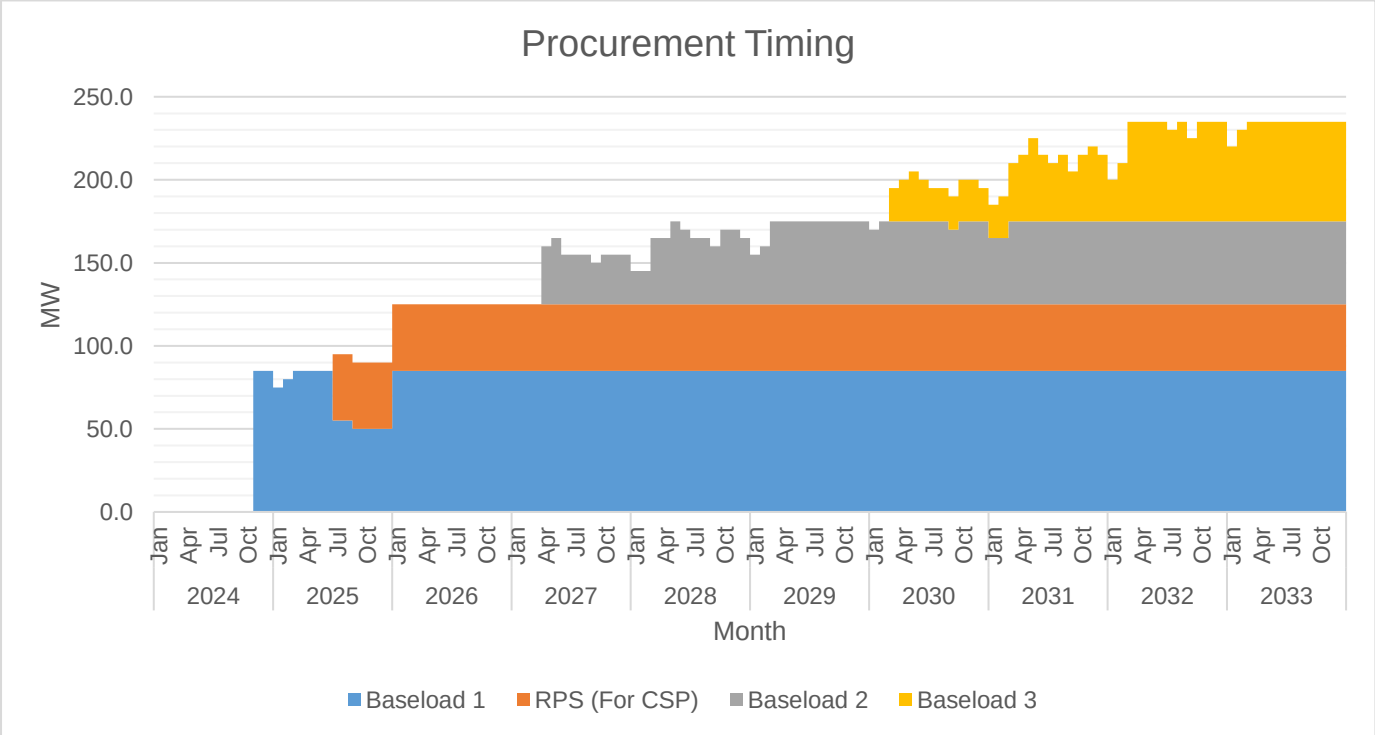
The Peak Demand was forecasted using “Quadratic (1 variable): Y = c(t)2 + a” and was assumed to occur on the month of May of every year due to high demand consumption. Monthly Peak Demand is at its lowest from months of December to February due to the annual 3-month implementation of the fishing ban. The fishing ban starts at Dec. 1 to March 1, fishing personnel, mostly from big sardine and canning factories, are prohibited from catching "tamban," or sardines, to enhance propagation of the species. The closed fishing season is implemented in accordance with BFAR Administrative Circular 255, Series of 2014, where some 11 sardine canning factories are operating in Zamboanga City, making the city the ‘’Sardine Capital of the Philippines". However, in 2023, the fishing ban starts from November 15 to February 15, 2024. In general, peak demand is expected to grow at an average annual rate of 7.74%, considering the projected additional substantial demand requirements from commercial and industrial customers and the fast development within the franchise area that ZAMCELCO will be serving in the future.



The available supply is generally below the peak demand. This is because the energy provided by the existing power supply contract is insufficient to meet the energy requirements of ZAMCELCO, especially with the commencement of the WESM in Mindanao. The termination of the contract with ADSI is tied to the Department of Energy's Department Circular No. DC 2022-12-0039, which initiates WESM's commercial run in Mindanao. According to Section 9, FIT beneficiaries will lose their RESA with their Utility when WESM Mindanao goes live, following ERC's FIT Allowance collection guidelines including the PSAs with ZAMCELCO that are affected due to failure to comply with the DOE 2018 CSP Circular, as mandated by the Supreme Court in the Alyansa case, making them ineligible to supply as per WESM rules. However, ZAMCELCO, with the help of its investment management team, plans to conduct a competitive selection process (CSP) to meet the cooperative's power requirements and provide its member-consumer-owners with an affordable and reliable energy supply. Currently, the deficiency in ZAMCELCO's supply is being covered by trading it as a spot quantity in the Wholesale Electricity Spot Market (WESM).

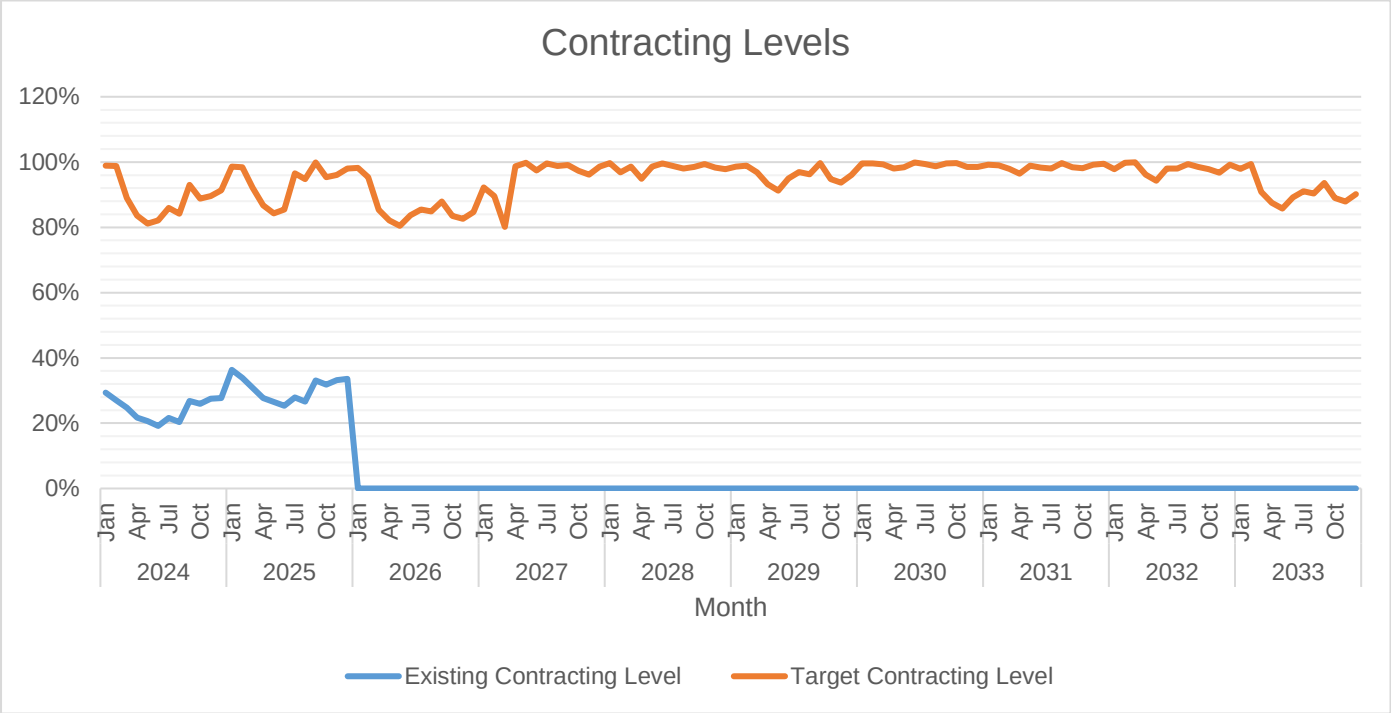


Of the available supply, the largest is 85 MW through an Emergency Power Supply Agreement (EPSA) which was already filed by ZAMCELCO and Malita Power Inc. to the Energy Regulatory Commission to be able to continuously deliver the supply of electricity to its captive market. This is followed by 31.92 MW based on the average contracted demand from Power Sector Assets and Liabilities Management Corporation. The deficiency in power supply requirements will be addressed through the procurement of power supplies that will undergo a competitive selection process as proposed by the ZAMCELCO BAC CSP, of which the first wave for the procurement of power supplies will commence this year, 2024.

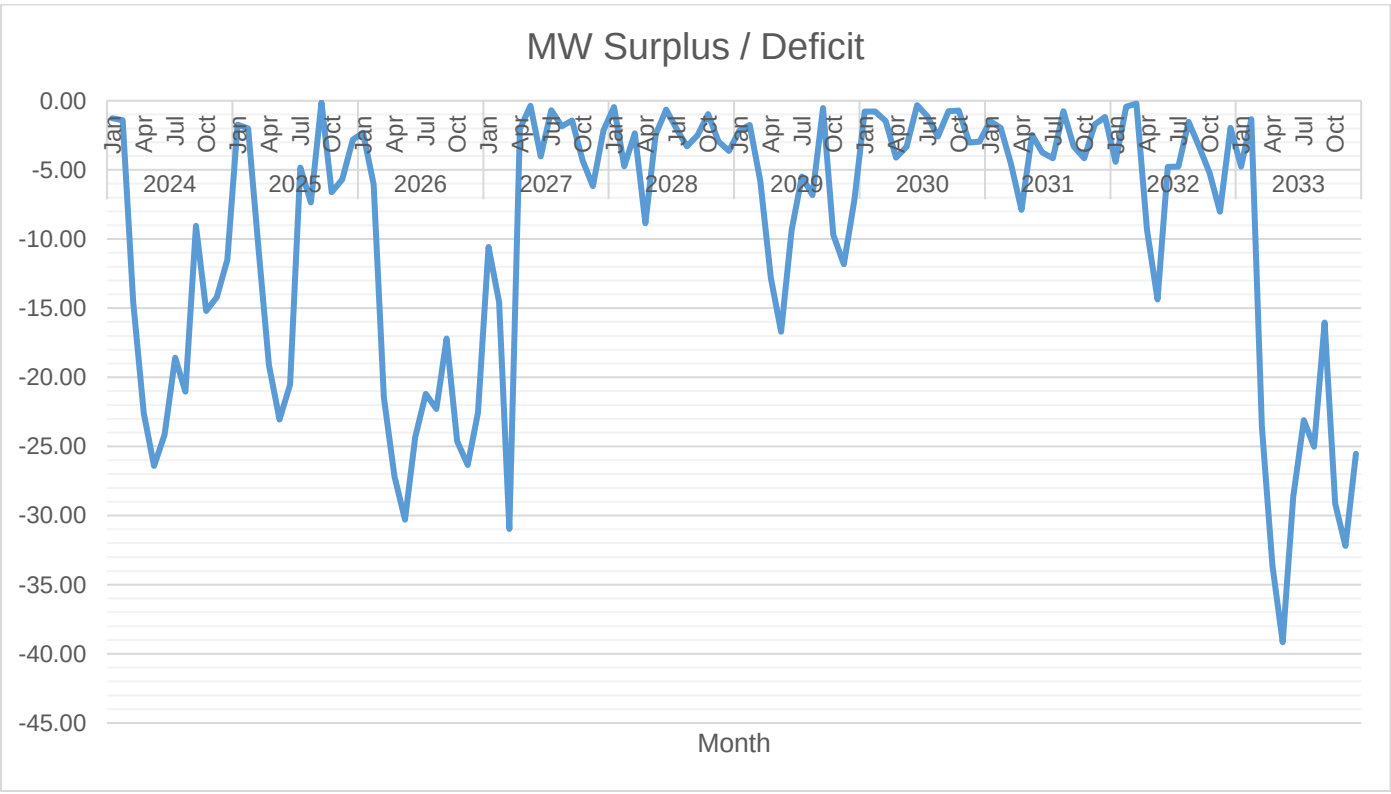


The first wave of supply procurement will be for a firm maximum capacity of 85 MW, with baseload planned to be available by the month of November 2024, before the expiration of the EPSA. This

will be followed by a maximum capacity of 40 MW of renewable energy for compliance with the Renewable Portfolio Standards (RPS).



Currently, there is under-contacting by an average deficit of -11.33%. The highest target contracting level is 100% meanwhile the lowest target contracting level is 80%. This will be addressed by the completion of the competitive selection process to secure a contracted supply to sustain the growing demand of the electric cooperative in its franchise area.



Currently, there is under-contacting by an average of -9.45 MW. The highest deficit is 39.16 MW, which is expected to occur in May 2033. However, such under contracting supplies will be purchased

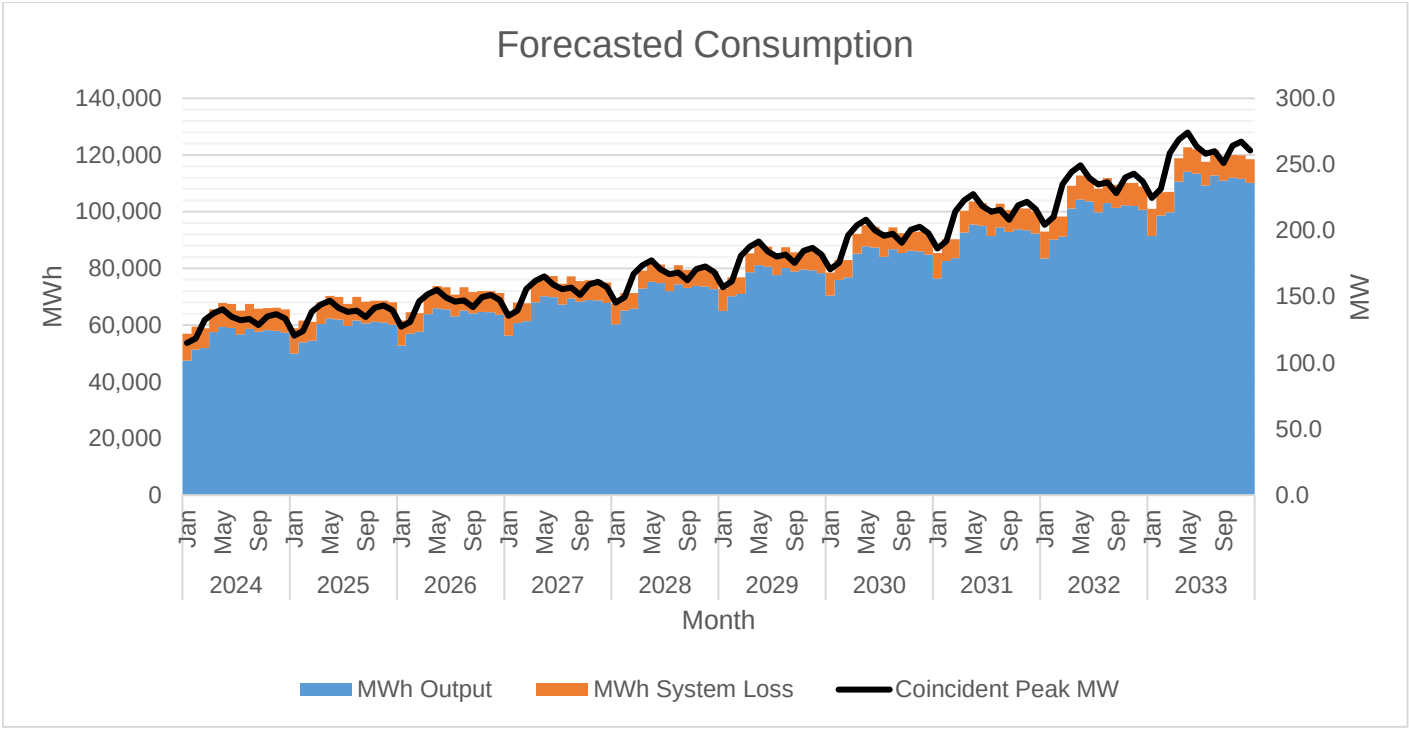
from the spot market while working on the preparation of the Competitive Selection Process (CSP) is ongoing.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	58,309	47,523	9,419	2.35%	16.54%
	Feb	60,830	51,307	8,087	2.36%	13.62%
	Mar	60,347	51,891	7,037	2.35%	11.94%
	Apr	67,175	57,501	8,098	2.35%	12.34%
	May	69,401	59,301	8,476	2.34%	12.51%
	Jun	69,063	58,962	8,480	2.35%	12.57%
	Jul	66,634	56,772	8,302	2.34%	12.76%
	Aug	69,065	58,607	8,841	2.34%	13.11%
	Sep	67,372	57,648	8,140	2.35%	12.37%
	Oct	67,638	58,188	7,860	2.35%	11.90%
	Nov	67,719	58,029	8,105	2.34%	12.26%
	Dec	67,087	57,291	8,220	2.35%	12.55%
2025	Jan	61,733	49,918	8,939	4.66%	15.19%
	Feb	64,402	53,894	7,675	4.40%	12.47%
	Mar	63,891	54,507	6,679	4.23%	10.92%
	Apr	71,119	60,399	7,686	4.27%	11.29%
	May	73,476	62,291	8,045	4.27%	11.44%
	Jun	73,118	61,936	8,048	4.29%	11.50%
	Jul	70,547	59,634	7,879	4.30%	11.67%
	Aug	73,120	61,562	8,391	4.33%	12.00%
	Sep	71,328	60,555	7,726	4.27%	11.31%
	Oct	71,609	61,123	7,460	4.23%	10.88%
	Nov	71,695	60,955	7,692	4.25%	11.21%
	Dec	71,026	60,179	7,802	4.29%	11.48%
2026	Jan	66,106	52,806	8,737	6.90%	14.20%
	Feb	68,964	57,012	7,502	6.45%	11.63%
	Mar	68,417	57,661	6,528	6.18%	10.17%
	Apr	76,158	63,894	7,512	6.24%	10.52%
	May	78,682	65,896	7,863	6.26%	10.66%
	Jun	78,298	65,520	7,866	6.27%	10.72%
	Jul	75,545	63,085	7,701	6.30%	10.88%
	Aug	78,301	65,125	8,202	6.35%	11.19%
	Sep	76,381	64,060	7,551	6.25%	10.54%
	Oct	76,683	64,660	7,292	6.17%	10.13%
	Nov	76,774	64,482	7,519	6.22%	10.44%
	Dec	76,058	63,661	7,625	6.27%	10.70%
2027	Jan	69,393	56,241	8,351	6.92%	12.93%
	Feb	72,394	60,720	7,170	6.22%	10.56%
	Mar	71,819	61,412	6,239	5.80%	9.22%
	Apr	79,945	68,050	7,180	5.90%	9.54%
	May	82,594	70,185	7,516	5.93%	9.67%
	Jun	82,192	69,784	7,519	5.95%	9.73%
	Jul	79,301	67,190	7,361	5.99%	9.87%
	Aug	82,194	69,362	7,839	6.07%	10.15%
	Sep	80,179	68,228	7,217	5.90%	9.57%

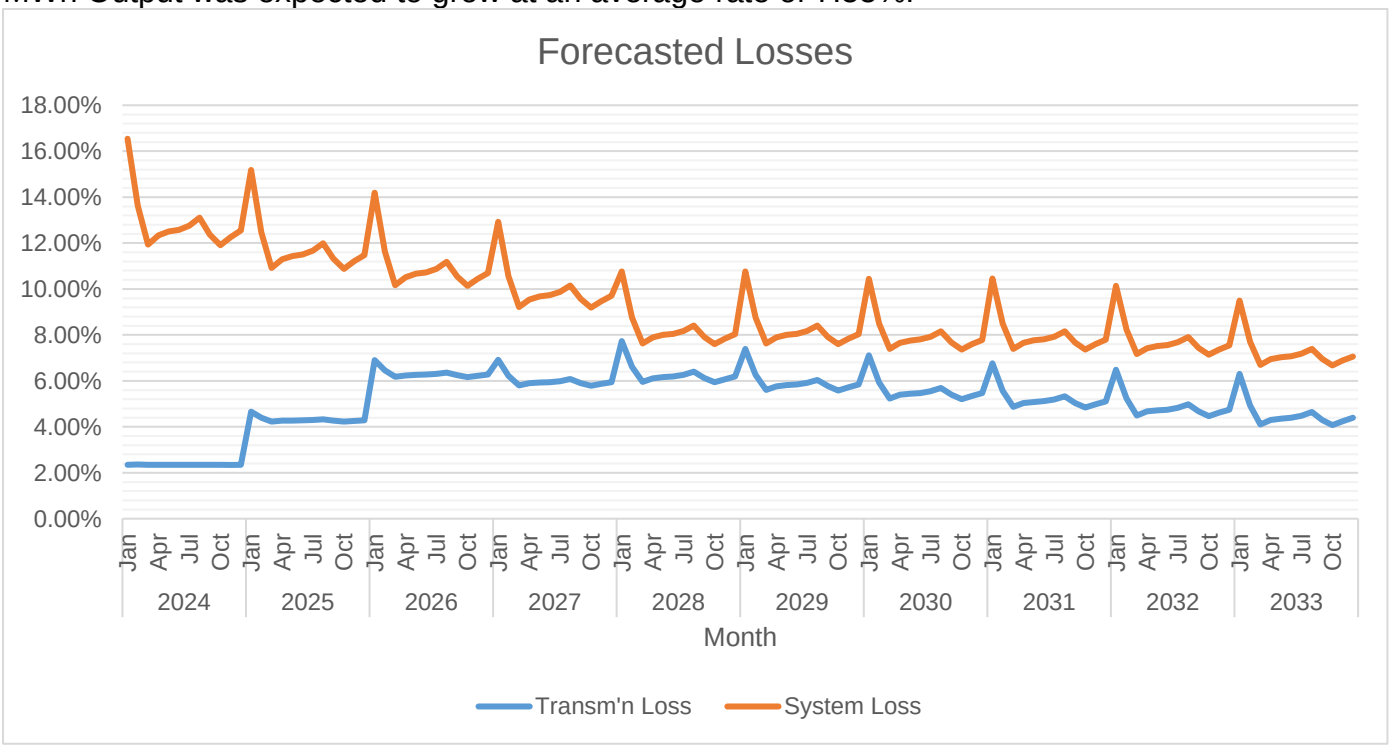
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Oct	80,496	68,868	6,969	5.79%	9.19%
	Nov	80,592	68,678	7,186	5.87%	9.47%
	Dec	79,840	67,803	7,288	5.95%	9.71%
2028	Jan	73,209	60,278	7,270	7.73%	10.76%
	Feb	76,374	65,079	6,242	6.62%	8.75%
	Mar	75,768	65,821	5,432	5.96%	7.62%
	Apr	84,340	72,934	6,250	6.11%	7.89%
	May	87,135	75,224	6,542	6.16%	8.00%
	Jun	86,710	74,795	6,545	6.19%	8.05%
	Jul	83,661	72,014	6,408	6.26%	8.17%
	Aug	86,713	74,343	6,824	6.40%	8.41%
	Sep	84,587	73,128	6,283	6.12%	7.91%
	Oct	84,921	73,813	6,067	5.94%	7.60%
	Nov	85,023	73,609	6,256	6.07%	7.83%
	Dec	84,229	72,671	6,345	6.19%	8.03%
2029	Jan	78,618	64,971	7,837	7.39%	10.76%
	Feb	82,016	70,146	6,729	6.27%	8.75%
	Mar	81,366	70,946	5,855	5.61%	7.62%
	Apr	90,572	78,613	6,738	5.76%	7.89%
	May	93,573	81,084	7,053	5.81%	8.00%
	Jun	93,117	80,621	7,056	5.84%	8.05%
	Jul	89,842	77,623	6,908	5.91%	8.17%
	Aug	93,120	80,133	7,357	6.05%	8.41%
	Sep	90,837	78,824	6,773	5.77%	7.91%
	Oct	91,196	79,563	6,541	5.58%	7.60%
	Nov	91,305	79,341	6,744	5.72%	7.83%
	Dec	90,452	78,331	6,840	5.84%	8.03%
2030	Jan	84,604	70,375	8,211	7.11%	10.45%
	Feb	88,261	75,980	7,050	5.93%	8.49%
	Mar	87,561	76,849	6,135	5.23%	7.39%
	Apr	97,468	85,152	7,060	5.39%	7.66%
	May	100,698	87,831	7,390	5.44%	7.76%
	Jun	100,207	87,330	7,393	5.47%	7.80%
	Jul	96,683	84,081	7,238	5.55%	7.93%
	Aug	100,210	86,801	7,708	5.69%	8.16%
	Sep	97,753	85,383	7,096	5.40%	7.67%
	Oct	98,139	86,183	6,853	5.20%	7.37%
	Nov	98,257	85,943	7,066	5.34%	7.60%
	Dec	97,339	84,848	7,166	5.47%	7.79%
2031	Jan	91,676	76,545	8,933	6.76%	10.45%
	Feb	95,639	82,642	7,670	5.57%	8.49%
	Mar	94,881	83,587	6,674	4.87%	7.39%
	Apr	105,615	92,617	7,680	5.04%	7.66%
	May	109,116	95,535	8,039	5.08%	7.76%
	Jun	108,584	94,990	8,042	5.11%	7.81%
	Jul	104,765	91,455	7,874	5.19%	7.93%
	Aug	108,587	94,413	8,385	5.33%	8.16%
	Sep	105,925	92,872	7,720	5.03%	7.67%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Oct	106,343	93,742	7,455	4.84%	7.37%
	Nov	106,471	93,479	7,687	4.98%	7.60%
	Dec	105,477	92,288	7,796	5.11%	7.79%
2032	Jan	99,407	83,536	9,420	6.49%	10.13%
	Feb	103,705	90,189	8,088	5.23%	8.23%
	Mar	102,882	91,222	7,038	4.49%	7.16%
	Apr	114,522	101,075	8,099	4.67%	7.42%
	May	118,318	104,263	8,478	4.71%	7.52%
	Jun	117,741	103,668	8,481	4.75%	7.56%
	Jul	113,600	99,809	8,303	4.83%	7.68%
	Aug	117,745	103,038	8,843	4.98%	7.90%
	Sep	114,858	101,356	8,141	4.67%	7.44%
	Oct	115,311	102,306	7,861	4.46%	7.14%
	Nov	115,450	102,018	8,106	4.61%	7.36%
	Dec	114,372	100,718	8,221	4.75%	7.55%
2033	Jan	107,791	91,401	9,592	6.31%	9.50%
	Feb	112,451	98,681	8,235	4.92%	7.70%
	Mar	111,559	99,812	7,166	4.11%	6.70%
	Apr	124,180	110,592	8,247	4.30%	6.94%
	May	128,296	114,084	8,632	4.35%	7.03%
	Jun	127,670	113,432	8,636	4.39%	7.07%
	Jul	123,180	109,209	8,455	4.48%	7.19%
	Aug	127,675	112,743	9,004	4.64%	7.40%
	Sep	124,544	110,903	8,290	4.30%	6.95%
	Oct	125,036	111,943	8,005	4.07%	6.67%
	Nov	125,186	111,626	8,254	4.24%	6.89%
	Dec	124,017	110,203	8,371	4.39%	7.06%

MWh Offtake was forecast based on the result of forecasted energy sales using different forecasting methods, which results in an average growth rate of 7.07%, and the target average system loss of 8.25% will be achieved by the year 2028 onwards, which is equal to the system loss cap set by the ERC for every electric cooperative and will continue to decrease in the following years. The assumed load factor is 71.90 percent.



MWh Output was expected to grow at an average rate of 7.55%.



System Loss is expected to decrease from an average of 12.87% to 7.25% by the year 2024 to 2033 as ZAMCELCO prepares its plans and programs through capital expenditures and other cooperative activities such as the anti-pilferage campaign and apprehension, line row clearing operation, replacements of defective electric meters and digitalization, and advancements of the facilities and equipment to reduce technical and non-technical losses, with the goal of reducing system losses by at least 2% annually to meet the required level as mandated in the ERC System Loss Caps prescribed in RA 7832.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	Maximum MW	Maximum MWh/yr	PSA Start	PSA End
CSEE Renewal with PSALM (2024-2025)	Base	Power Sector Assets and Liabilities Management Corporation	25.85	280,292	47.59	367,105	12/26/2023	12/25/2025

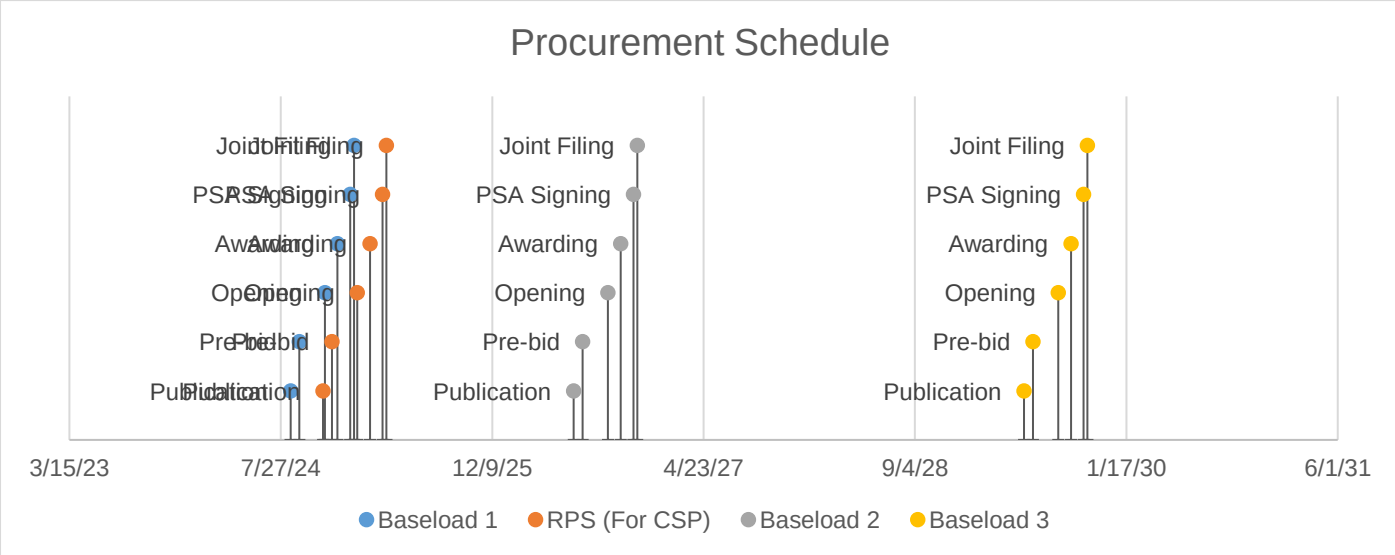
ZAMCELCO is currently preparing the requirements set in the **ERC Resolution No. 16 Series of 2023 for the renewal of the Contract of Service for Electric Energy for the covering period of 2024–2025**, on which the delivery of supply has already started on December 26, 2023. ZAMCELCO has already transmitted the board resolution to PSALM, authorizing them to file a joint application on the extension and increase of the contract supply electric energy (CSEE) for FY. 2024-2025. As for the TOU rate schedule indicated in the CSEE, the average TOU rate during Monday–Saturday is 2.94169 Ph/kWh, while Sunday/Holiday is 2.88703 Ph/kWh.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	Maximum MW	Maximum MWh/yr	PSA Start	PSA End
2023-146 RC	Base	SMC Consolidated Power Corporation	85.00	746,640	85.00	746,640	10/26/2023	10/25/2024

On October 6, 2023, ZAMCELCO received a copy of the Order dated March 1, 2023, in ERC Case No. 2016-094 RC, denying the Motion for Reconsideration (of the September 11, 2019 Order), which dismissed the Joint Application for the Approval of the Power Supply Agreement (PSA) file by Applicants ZAMCELCO and San Miguel Consolidated Power Corporation (SMCPC).

The order resulted in ZAMCELCO having an open power supply requirement of a total of 85,000 kW, necessitating the procurement of the said requirement through an **Emergency Power Supply Agreement (EPSA)** in accordance with the Energy Regulatory Commission (ERC) Resolution No. 16, Series of 2023 (ERC CSP Rules). Accordingly, ZAMCELCO and Malita Power Inc. have filed a joint application for approval of an Emergency Power Supply Agreement (EPSA) with the Energy Regulatory Commission with ERC Case No. 2023-146 RC dated December 27, 2023. The actual average billed monthly charge under the EPSA is 7.4787 Ph/kWh for the billing months of November to December 2023, when the EPSA started on October 26, 2023.

	Baseload 1	RPS (For CSP)	Baseload 2	Baseload 3
Type	Base	Intermediate	Base	Base
Minimum MW	50.00	40.00	20.00	20.00
Minimum MWh/yr	409,314	175,825	171,651	55,731
Maximum MW	85.00	40.00	50.00	60.00
Maximum MWh/yr	744,600	175,825	438,000	525,600
PSA Start	10/26/2024	6/26/2025	3/26/2027	2/26/2030
PSA End	10/25/2034	6/25/2045	3/25/2037	2/25/2040
Publication	8/19/2024	11/4/2024	6/22/2026	5/21/2029
Pre-bid	9/10/2024	11/18/2024	7/14/2026	6/12/2029
Opening	10/10/2024	12/27/2024	8/13/2026	7/12/2029
Awarding	10/29/2024	3/26/2025	9/1/2026	9/1/2029
PSA Signing	12/10/2025	4/10/2025	10/13/2026	9/11/2029
Joint Filing	2/8/2025	4/21/2025	12/12/2026	11/10/2029



For the procurement of 85 MW of Firm, Baseload supply, which is planned to be available on October 26, 2024 after the termination of EPSA, the first publication or launch of CSP will be on August 19, 2024. Joint filing is planned on February 8, 2025, or within 180 days later.

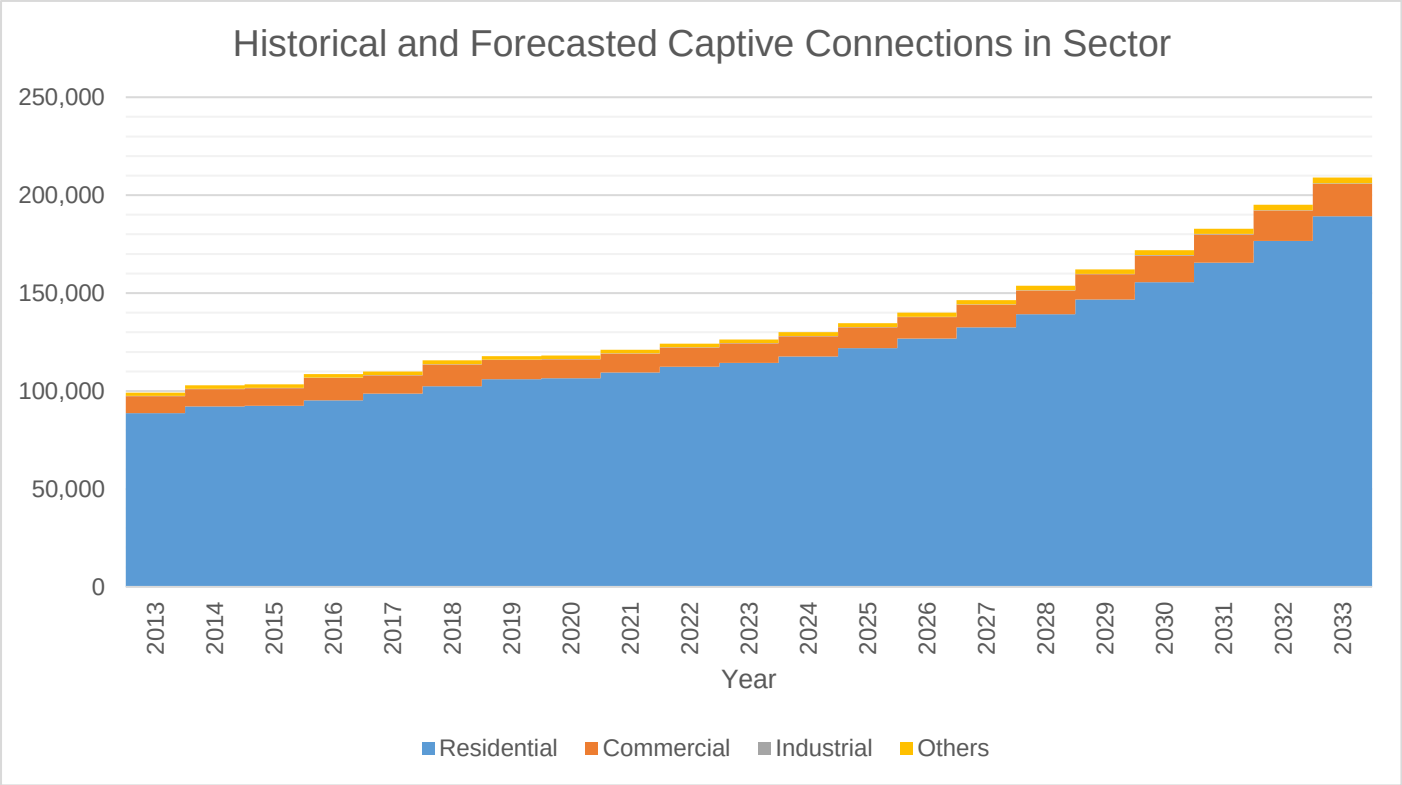
For the procurement of 40 MW of Renewable Source supply, which is planned to be available on June 26, 2025, the first publication or launch of CSP will be on November 4, 2024. Joint filing is planned on April 21, 2025, or within 180 days later.

For the procurement of 50 MW of Firm, Baseload supply, which is planned to be available on March 26, 2027, the first publication or launch of CSP will be on June 22, 2026. Joint filing is planned on December 12, 2026, or within 180 days later.

For the procurement of 60 MW of Firm, Baseload supply, which is planned to be available on February 26, 2030, the first publication or launch of CSP will be on May 21, 2029. Joint filing is planned on November 10, 2029, or within 180 days later.

The aforementioned power supply procurements shall be undertaken in compliance with DOE Department Circular (DC) No. DC 2023-06-0021. The procurement of power supply shall be in accordance with the implementing guidelines for the conduct of CSP and evaluation of PSAs in ERC Resolution No. 16, Series of 2023, and NEA Memorandum No. 2023-05.

Captive Customer Connections



The number of residential connections is expected to grow at an average rate of 3.87%. The aforementioned customer class is expected to account for 44.17% of total consumption. The number of commercial connections is expected to grow at an average rate of 6.38%. Said customer class is expected to account for 33.07% of the total consumption. The number of industrial connections is expected to grow at an average rate of 3.94%. This customer class is expected to account for 14.40% of the total consumption. The number of Other (Public building and Street Light) connections is expected to grow at a rate of 3.99% annually. The aforementioned customer class is expected to account for 8.35% of total consumption.

Zamboanga City being classified as a highly urbanized city in the country as the industrial and commercial center in the Zamboanga Peninsula region and its geographical location being suitable for trading with the Basilan-Sulu-Tawi Tawi region and its neighboring provinces such as Zamboanga Sibugay, Zamboanga del Norte, and Zamboanga del Sur and other regions, makes it a center of economic hub and soon to be a metropolitan city in the country that is why a rapid increase in the number of new connections is expected.