



Power Supply Procurement Plan 2024

SOUTH COTABATO II ELECTRIC COOPERATIVE

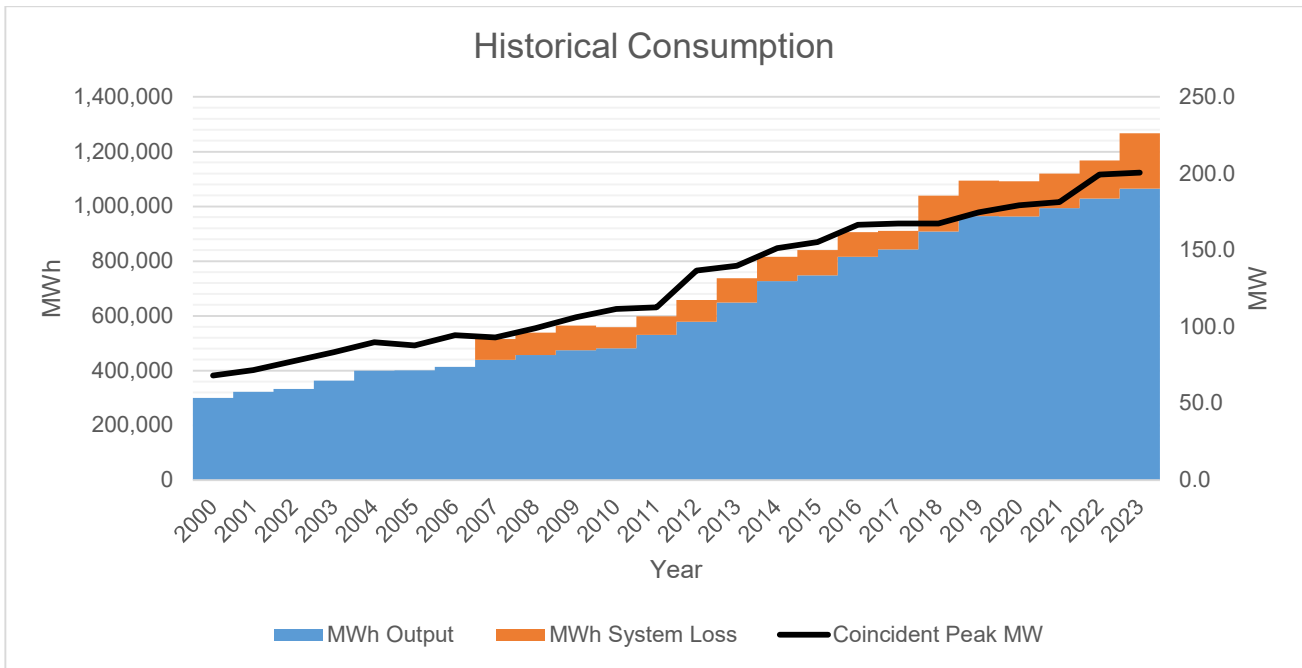
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	68.30	377,844	0	377,844	299,343	0	63%	-20.78%	0.00%	0.00%
2001	71.73	407,239	0	407,239	322,695	0	65%	-20.76%	0.00%	0.00%
2002	77.72	425,412	0	425,412	332,188	0	62%	-21.91%	0.00%	0.00%
2003	83.62	453,362	0	453,362	363,646	0	62%	-19.79%	0.00%	0.00%
2004	89.94	488,425	0	488,425	399,165	0	62%	-18.28%	0.00%	0.00%
2005	87.95	497,716	0	497,716	401,277	0	65%	-19.38%	0.00%	0.00%
2006	94.48	510,856	0	510,856	414,368	0	62%	-18.89%	0.00%	0.00%
2007	92.91	540,193	0	540,193	439,406	76,065	66%	-4.58%	0.00%	14.08%
2008	99.08	562,341	0	562,341	456,451	81,156	65%	-4.40%	0.00%	14.43%
2009	106.24	593,326	0	593,326	474,433	89,926	64%	-4.88%	0.00%	15.16%
2010	111.56	597,581	0	597,581	480,701	78,333	61%	-6.45%	0.00%	13.11%
2011	112.74	629,280	0	629,280	530,179	68,002	64%	-4.94%	0.00%	10.81%
2012	136.64	688,430	0	688,430	579,102	78,597	58%	-4.46%	0.00%	11.42%
2013	139.79	767,752	0	767,752	647,686	89,422	63%	-3.99%	0.00%	11.65%
2014	151.32	816,330	0	816,330	727,105	89,467	62%	0.03%	0.00%	10.96%
2015	155.25	839,799	0	839,799	747,992	91,902	62%	0.01%	0.00%	10.94%
2016	166.64	905,234	0	905,234	816,102	89,131	62%	0.00%	0.00%	9.85%
2017	167.29	910,836	0	910,836	842,089	68,747	62%	0.00%	0.00%	7.55%
2018	167.38	1,039,193	0	1,039,193	908,165	131,028	71%	0.00%	0.00%	12.61%
2019	174.65	1,094,395	0	1,094,395	964,878	129,517	72%	0.00%	0.00%	11.83%
2020	179.39	1,095,933	0	1,095,933	963,661	128,410	70%	-0.35%	0.00%	11.72%
2021	181.31	1,119,224	0	1,119,224	993,258	125,966	70%	0.00%	0.00%	11.25%
2022	199.35	1,167,374	0	1,167,374	1,028,662	138,712	67%	0.00%	0.00%	11.88%
2023	200.63	1,266,690	127,495	1,266,690	1,064,919	201,771	72%	0.00%	0.00%	15.93%

Peak Demand increased from 199.35 MW in 2022 to 210.72 MW in 2023 at a rate of 5.70%. However, the highest recorded demand happens in May 2023 wherein the summer season is on. The higher consumption on cooling systems like airconditioning units were utilized. MWh Offtake slightly increased from 1,167,374 in 2022 to 1,266,690 MWhrs in 2023 at a rate of 8.51% due to the opening of businesses and industries where General Santos City is considered an investment-grade city in the Southern Philippines. Within the same period, the average Load Factor ranged is 69%. There was a slight increase in the consumption of energy due to the fast development in the franchise of SOCOTECO II.

No data is inputted on the Transmission loss since we are metered on the totalized meter in the take-off bus of NGCP. Transmission loss is already included in the total System loss as computed above.

System Loss of SOCOTECO II was accounted as non-technical loss, many reported meters were tampered with or damaged. To lower the System loss of SOCOTECO II, regular conduct of Apprehension activities is included and prioritized in the work plan. Change meters and monitoring of damaged meters will be intensified. CAPEX Projects will be implemented according to the timeline so that the configuration of lines to lower technical system loss.



MWh Output increased from year 2022 to year 2023 at a rate of 3.52%.

System Loss peaked last year 15.93 % due to damaged Fishport Substation.



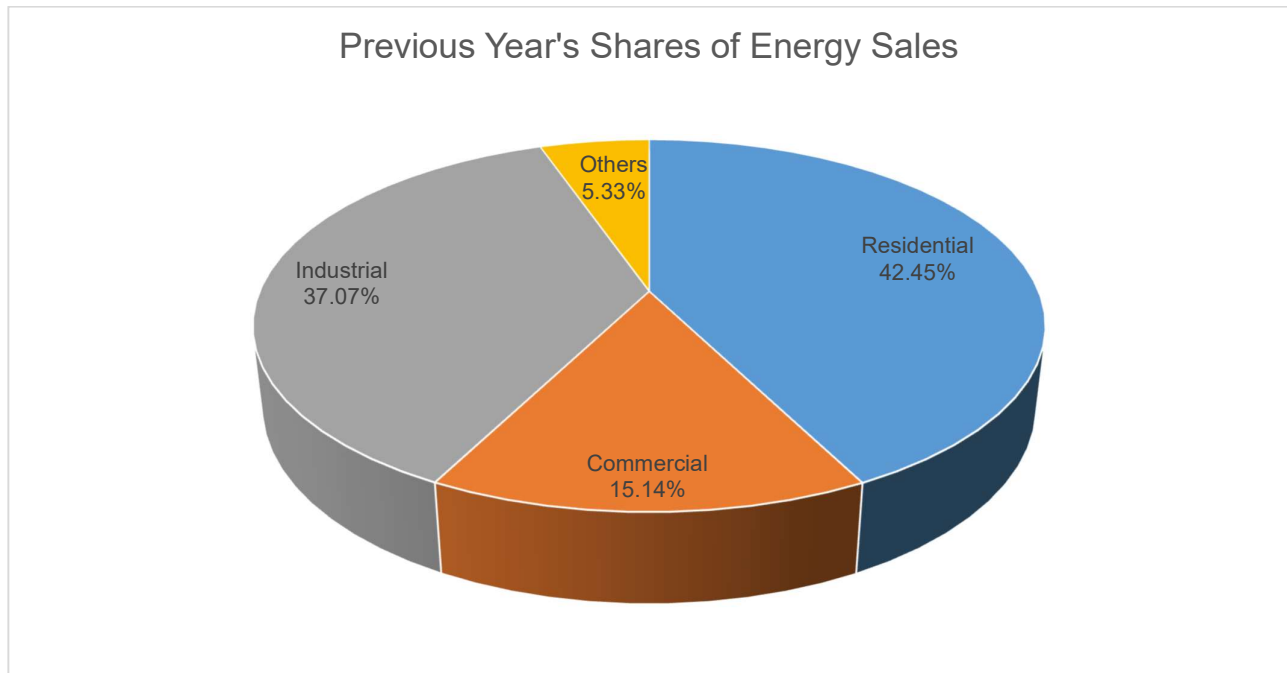
Historically, Transmission Loss is based on NGCP simulation of losses in the Mindanao Grid that remained to be 4.35 percent.

Historical losses of SOCOTECO II is relatively high from 2006 to 2010. It significantly dropped in the year 2011 when a significant number of mechanical meters were changed into digital meters. It continually went down from 2011 to 2017 when almost all meters were changed. Historically, Transmission Loss is based on the NGCP simulation of losses in the Mindanao Grid that remained to be 4.35 percent. However, a review of this loss is requested to determine the actual loss to date.

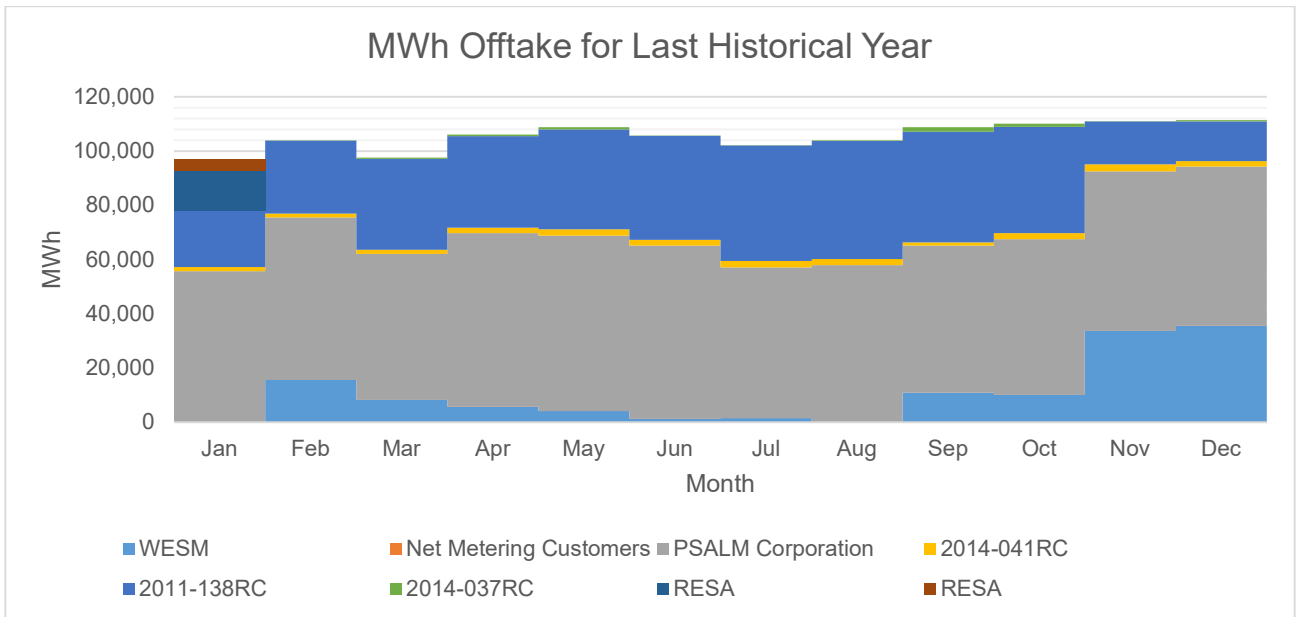
It increased in the years 2018, 2019, and 2020 due to an increase of pilferers that increased the non-technical losses of the cooperative.

To lessen the non-technical loss caused by pilferers, a team specifically for the apprehension of pilferers will be formed.

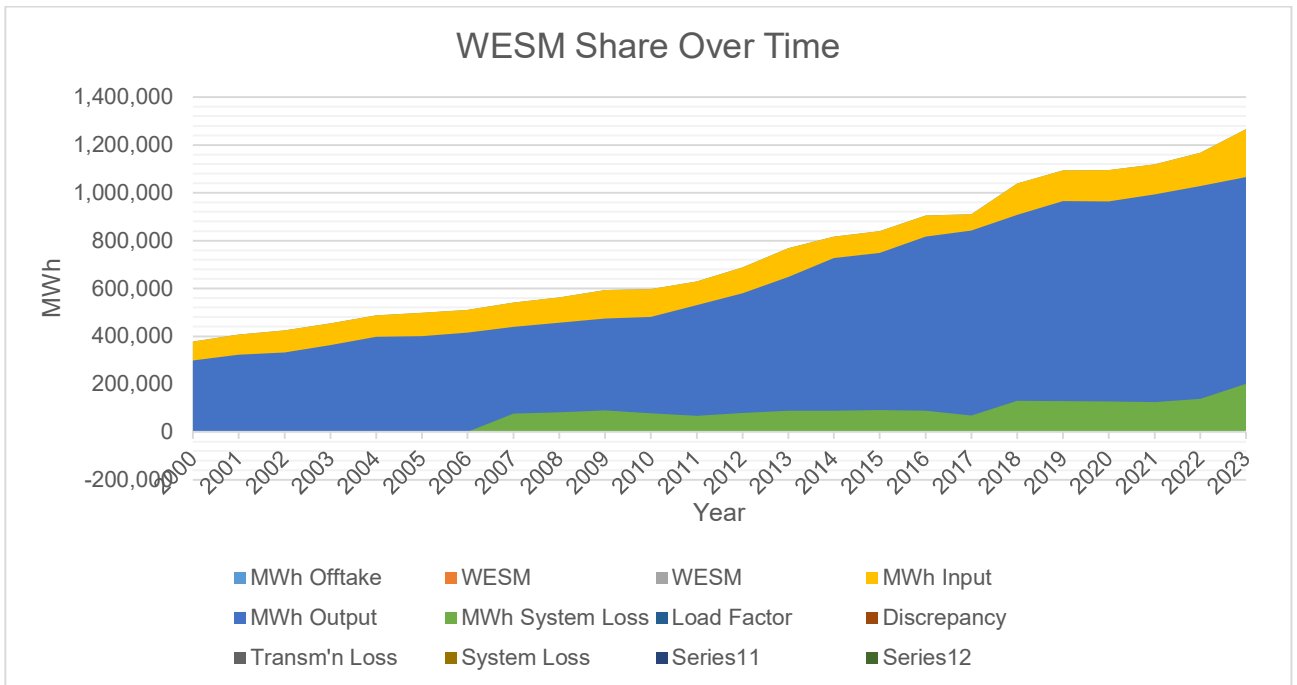
Moreover, CAPEX projects to install and rehabilitate meters of all 69kV sub-transmission, substation, and feeders with higher accuracy class are included in the 2015-2023 CAPEX Application which will commence in the first quarter of 2024. However, a team for system loss reduction has been formed to lessen the impact of system loss which is relatively increasing as of the end of 2023.



Residential customers account for the bulk of energy sales at 42.45% reduced compared to 2022 since most consumers are now sent back to their offices. In addition, commercial customers accounted for 15.14% of energy sales. Further, industrial consumers are 37.07% of the total energy consumption for the year 2023, and other consumer group with 5.33%.



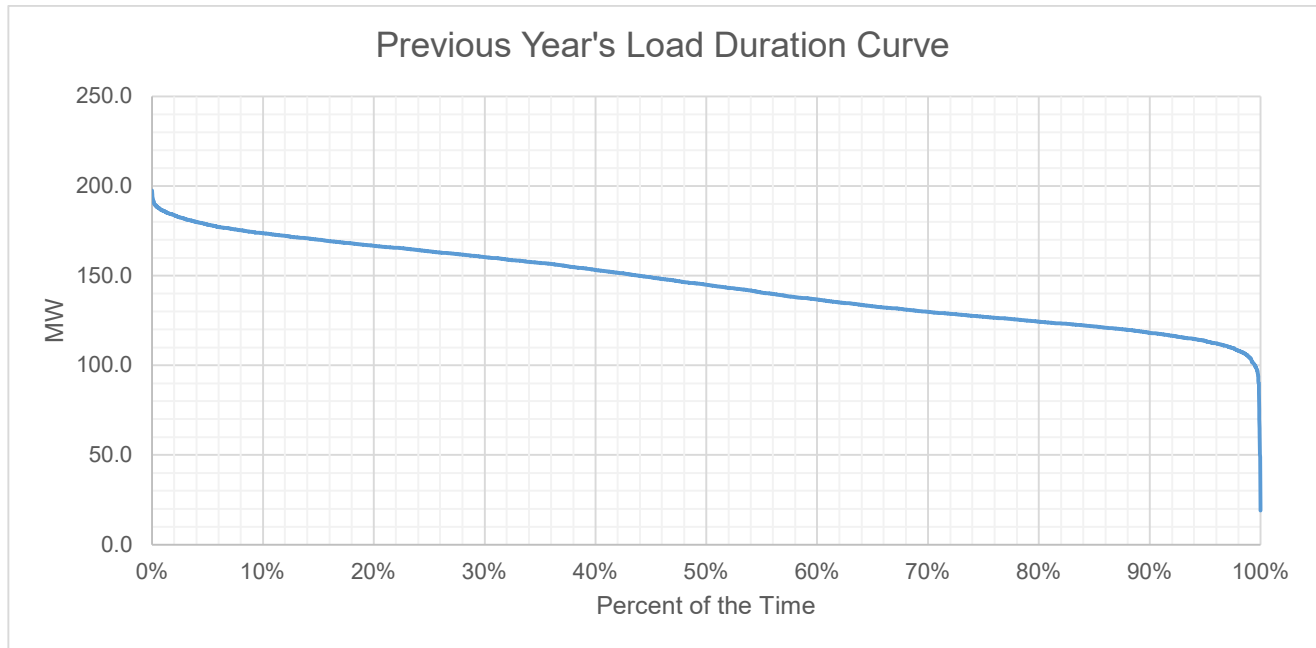
For SOCOTECO II, the total Offtake for the last historical year 2023 is higher compared to the Power Supply Agreement of the cooperative. During the commercial operation of the Wholesale Electricity Sport Market, two of the Renewable Energy Service Agreements had been terminated. Energy deficit was sourced to WESM.



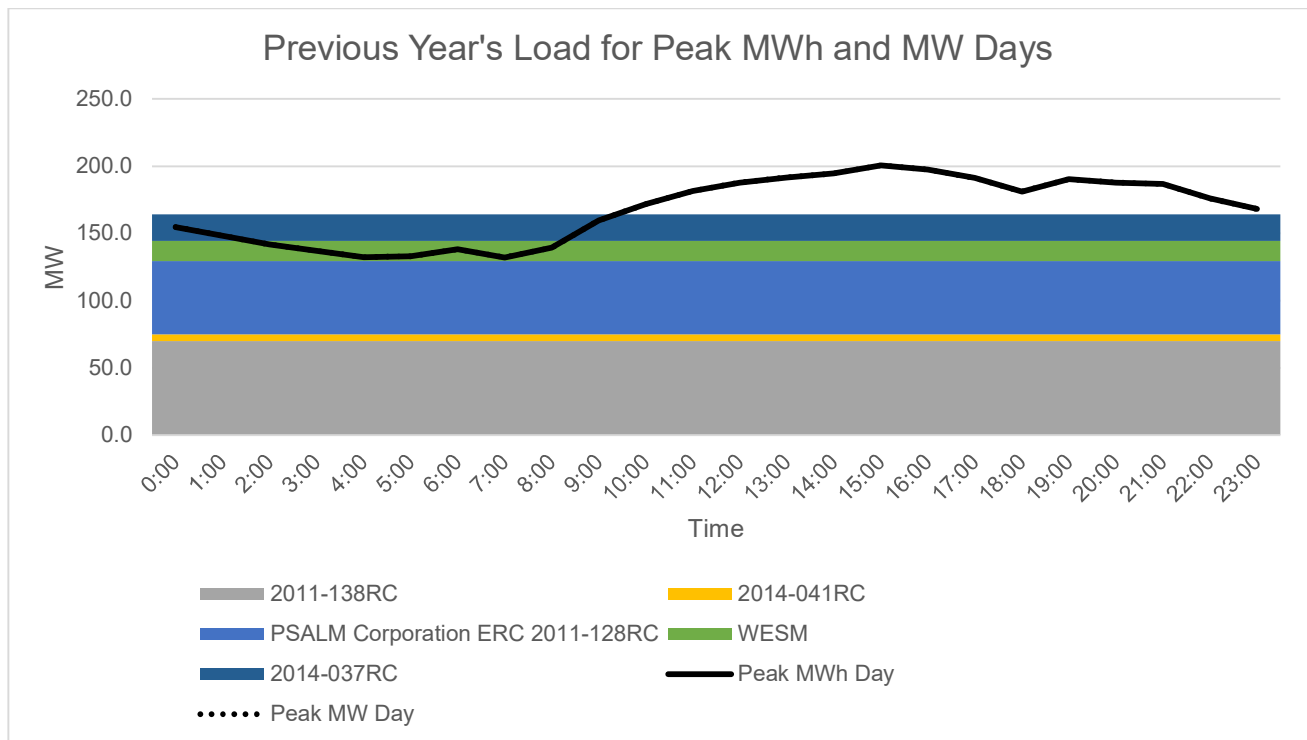
WESM has 10.07% share in the MWhr Offtake of SOCOTECO II in 2023.

SOCOTECO II Status of application for WESM Mindanao is compliant with the rules set by the Department of Energy.

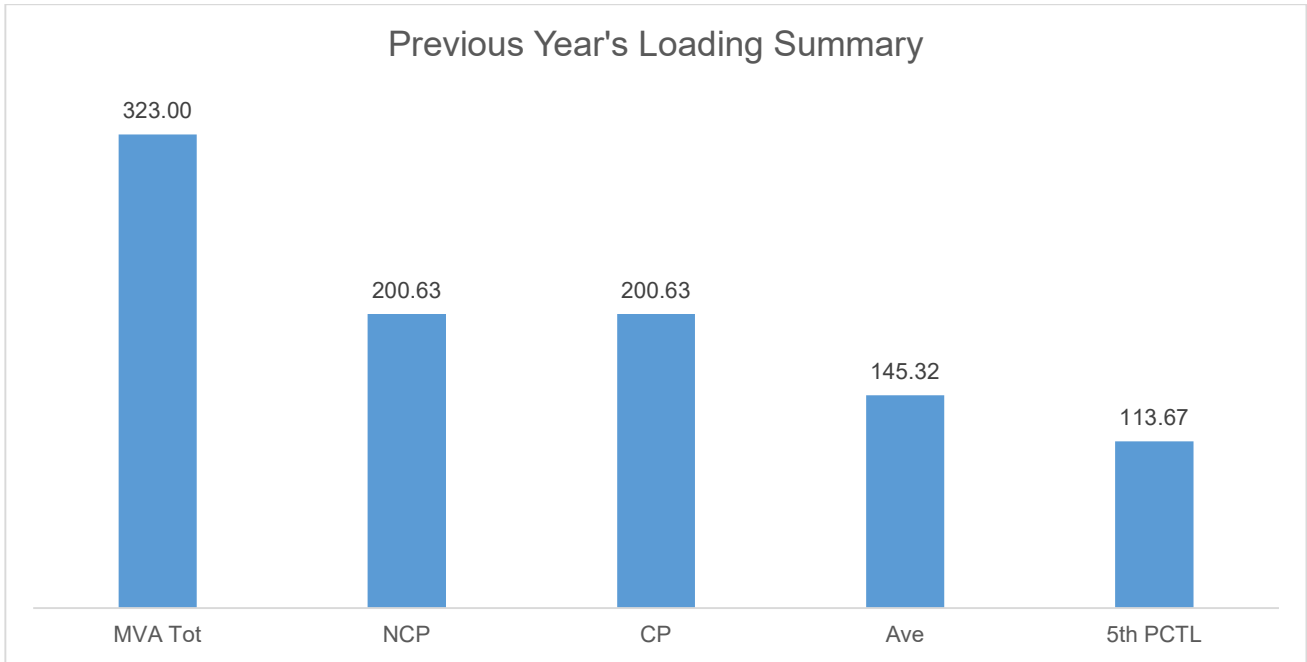
Previous Year's Load Profile



Based on the Load Duration Curve, the maximum load is 200.63 MW for the last historical year.



Peak Demand occurred at 3:00 pm due to the simultaneous demand for power from residential, commercial, and most industrial consumers. As shown in the Load Curves, the available supply is lower than the Peak Demand which means that supply is not sufficient. However, the supply deficit will be sourced to WESM and another Renewable Energy Supply of 85,000Mwhrs will be added on the supply portfolio in the first quarter of 2024.



The coincident Peak Demand is 200.63 MW, which is around 62.11% of the total substation capacity of 323 MVA at a power factor of 95.64%. A safe estimate of the true minimum load is the fifth percentile load of 113.09MW which is 56.36% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
SARI	20	12.423
MALANDAG	10	6.211
LIGAYA	10	6.211
GLAN	10	6.211
TUPI TOTALIZER	50	31.057
SEGUIL LINE 2	53.00	32.920
KCC	10	6.211
MAIN	35	21.740
SEGUIL LINE 1	125.00	77.642

The substations loaded below 70% of their total capacity. However, other substations near its 100% loading were filed for upgrade in the 2015-2024 CAPEX application namely the Main Office 20MVA substation, Glamang Substation and Glan Substation.

2024-2026 CAPEX application will be filed to the Energy Regulatory Commission this 2024.

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	179.03	164.03	0.00	15.000		92%	100%	0.00
	Feb	180.83	165.83	0.00	15.000		92%	100%	0.00
	Mar	192.47	177.47	0.00	15.000		92%	100%	0.00
	Apr	191.56	176.56	0.00	15.000		92%	100%	0.00
	May	204.31	189.31	0.00	15.000		93%	100%	0.00
	Jun	185.19	170.19	0.00	15.000		92%	100%	0.00
	Jul	185.38	170.38	0.00	15.000		92%	100%	0.00
	Aug	191.61	176.61	0.00	15.000		92%	100%	0.00
	Sep	187.88	172.88	0.00	15.000		92%	100%	0.00
	Oct	196.03	181.03	0.00	15.000		92%	100%	0.00
	Nov	194.81	179.81	0.00	15.000		92%	100%	0.00
	Dec	204.50	189.50	0.00	15.000		93%	100%	0.00
2025	Jan	245.18	230.18	0.00	15.000		94%	100%	0.00
	Feb	247.02	232.02	0.00	15.000		94%	100%	0.00
	Mar	258.96	243.96	0.00	15.000		94%	100%	0.00
	Apr	258.04	243.04	0.00	15.000		94%	100%	0.00
	May	271.11	256.11	0.00	15.000		94%	100%	0.00
	Jun	251.50	236.50	0.00	15.000		94%	100%	0.00
	Jul	251.69	236.69	0.00	15.000		94%	100%	0.00
	Aug	258.08	243.08	0.00	15.000		94%	100%	0.00
	Sep	254.26	239.26	0.00	15.000		94%	100%	0.00
	Oct	262.62	247.62	0.00	15.000		94%	100%	0.00
	Nov	261.37	246.37	0.00	15.000		94%	100%	0.00
	Dec	271.31	256.31	0.00	15.000		94%	100%	0.00
2026	Jan	249.82	94.50	0.00	253.530		38%	139%	98.21
	Feb	251.71	94.50	0.00	253.530		38%	138%	96.32
	Mar	263.96	94.50	0.00	253.530		36%	132%	84.07
	Apr	263.01	94.50	0.00	253.530		36%	132%	85.02

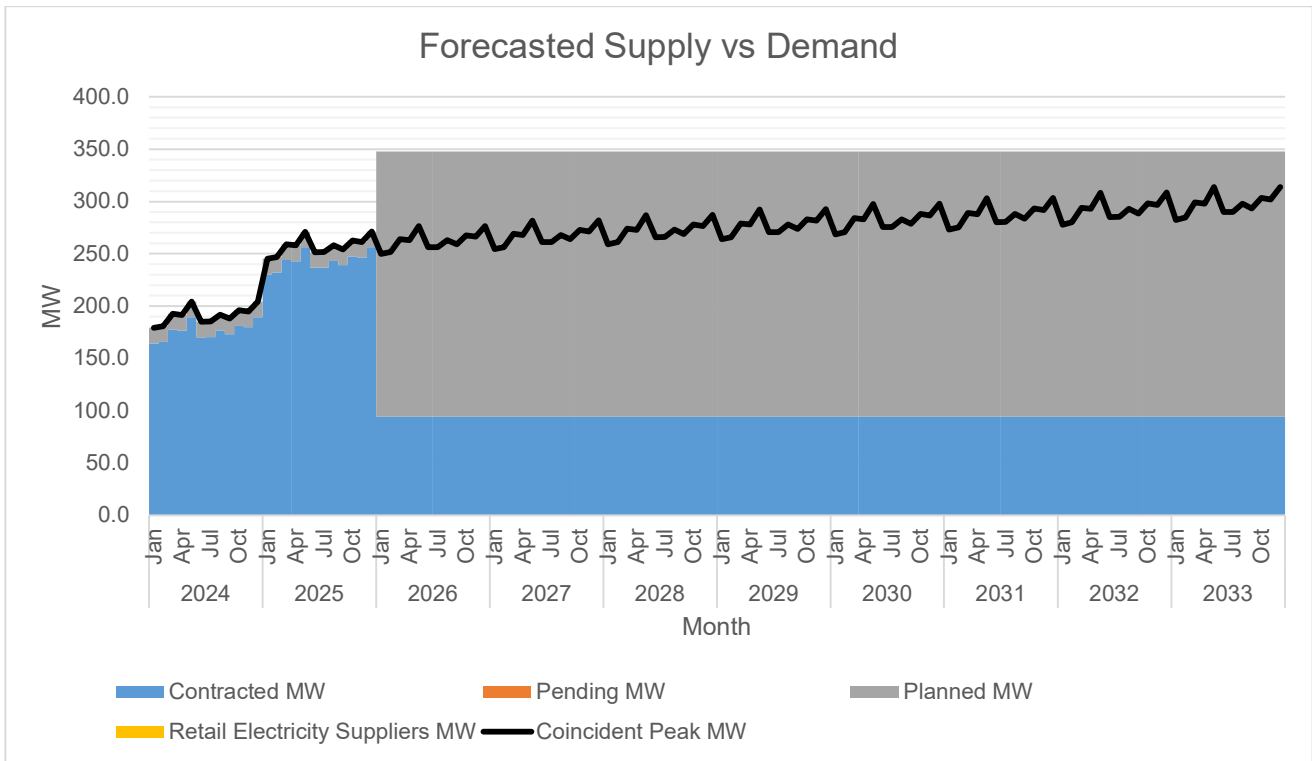
	May	276.42	94.50	0.00	253.530		34%	126%	71.62
	Jun	256.30	94.50	0.00	253.530		37%	136%	91.73
	Jul	256.50	94.50	0.00	253.530		37%	136%	91.53
	Aug	263.06	94.50	0.00	253.530		36%	132%	84.98
	Sep	259.14	94.50	0.00	253.530		36%	134%	88.89
	Oct	267.71	94.50	0.00	253.530		35%	130%	80.32
	Nov	266.43	94.50	0.00	253.530		35%	131%	81.60
	Dec	276.62	94.50	0.00	253.530		34%	126%	71.41
2027	Jan	254.47	94.50	0.00	253.530		37%	137%	93.56
	Feb	256.40	94.50	0.00	253.530		37%	136%	91.63
	Mar	268.96	94.50	0.00	253.530		35%	129%	79.07
	Apr	267.99	94.50	0.00	253.530		35%	130%	80.04
	May	281.72	94.50	0.00	253.530		34%	124%	66.31
	Jun	261.11	94.50	0.00	253.530		36%	133%	86.92
	Jul	261.31	94.50	0.00	253.530		36%	133%	86.72
	Aug	268.03	94.50	0.00	253.530		35%	130%	80.00
	Sep	264.02	94.50	0.00	253.530		36%	132%	84.01
	Oct	272.80	94.50	0.00	253.530		35%	128%	75.23
	Nov	271.49	94.50	0.00	253.530		35%	128%	76.54
	Dec	281.93	94.50	0.00	253.530		34%	123%	66.10
2028	Jan	259.12	94.50	0.00	253.530		36%	134%	88.91
	Feb	261.10	94.50	0.00	253.530		36%	133%	86.93
	Mar	273.96	94.50	0.00	253.530		34%	127%	74.07
	Apr	272.96	94.50	0.00	253.530		35%	128%	75.07
	May	287.03	94.50	0.00	253.530		33%	121%	61.00
	Jun	265.92	94.50	0.00	253.530		36%	131%	82.12
	Jul	266.13	94.50	0.00	253.530		36%	131%	81.90
	Aug	273.01	94.50	0.00	253.530		35%	127%	75.02
	Sep	268.89	94.50	0.00	253.530		35%	129%	79.14
	Oct	277.89	94.50	0.00	253.530		34%	125%	70.14
	Nov	276.55	94.50	0.00	253.530		34%	126%	71.48
	Dec	287.25	94.50	0.00	253.530		33%	121%	60.79
2029	Jan	263.76	94.50	0.00	253.530		36%	132%	84.27
	Feb	265.79	94.50	0.00	253.530		36%	131%	82.24

	Mar	278.95	94.50	0.00	253.530		34%	125%	69.08
	Apr	277.93	94.50	0.00	253.530		34%	125%	70.10
	May	292.33	94.50	0.00	253.530		32%	119%	55.70
	Jun	270.72	94.50	0.00	253.530		35%	129%	77.31
	Jul	270.94	94.50	0.00	253.530		35%	128%	77.09
	Aug	277.98	94.50	0.00	253.530		34%	125%	70.05
	Sep	273.77	94.50	0.00	253.530		35%	127%	74.26
	Oct	282.98	94.50	0.00	253.530		33%	123%	65.05
	Nov	281.60	94.50	0.00	253.530		34%	124%	66.43
	Dec	292.56	94.50	0.00	253.530		32%	119%	55.47
2030	Jan	268.41	94.50	0.00	253.530		35%	130%	79.62
	Feb	270.49	94.50	0.00	253.530		35%	129%	77.54
	Mar	283.95	94.50	0.00	253.530		33%	123%	64.08
	Apr	282.91	94.50	0.00	253.530		33%	123%	65.12
	May	297.64	94.50	0.00	253.530		32%	117%	50.39
	Jun	275.53	94.50	0.00	253.530		34%	126%	72.50
	Jul	275.75	94.50	0.00	253.530		34%	126%	72.28
	Aug	282.95	94.50	0.00	253.530		33%	123%	65.08
	Sep	278.65	94.50	0.00	253.530		34%	125%	69.39
	Oct	288.07	94.50	0.00	253.530		33%	121%	59.96
	Nov	286.66	94.50	0.00	253.530		33%	121%	61.37
	Dec	297.87	94.50	0.00	253.530		32%	117%	50.16
2031	Jan	273.06	94.50	0.00	253.530		35%	127%	74.98
	Feb	275.18	94.50	0.00	253.530		34%	126%	72.85
	Mar	288.94	94.50	0.00	253.530		33%	120%	59.09
	Apr	287.88	94.50	0.00	253.530		33%	121%	60.15
	May	302.94	94.50	0.00	253.530		31%	115%	45.09
	Jun	280.34	94.50	0.00	253.530		34%	124%	67.69
	Jul	280.56	94.50	0.00	253.530		34%	124%	67.47
	Aug	287.93	94.50	0.00	253.530		33%	121%	60.10
	Sep	283.52	94.50	0.00	253.530		33%	123%	64.51
	Oct	293.16	94.50	0.00	253.530		32%	119%	54.87
	Nov	291.72	94.50	0.00	253.530		32%	119%	56.31
	Dec	303.18	94.50	0.00	253.530		31%	115%	44.85

2032	Jan	277.70	94.50	0.00	253.530		34%	125%	70.33
	Feb	279.87	94.50	0.00	253.530		34%	124%	68.16
	Mar	293.94	94.50	0.00	253.530		32%	118%	54.09
	Apr	292.85	94.50	0.00	253.530		32%	119%	55.18
	May	308.25	94.50	0.00	253.530		31%	113%	39.78
	Jun	285.14	94.50	0.00	253.530		33%	122%	62.89
	Jul	285.37	94.50	0.00	253.530		33%	122%	62.66
	Aug	292.90	94.50	0.00	253.530		32%	119%	55.13
	Sep	288.40	94.50	0.00	253.530		33%	121%	59.63
	Oct	298.25	94.50	0.00	253.530		32%	117%	49.78
	Nov	296.78	94.50	0.00	253.530		32%	117%	51.25
	Dec	308.49	94.50	0.00	253.530		31%	113%	39.54
2033	Jan	282.35	94.50	0.00	253.530		33%	123%	65.68
	Feb	284.57	94.50	0.00	253.530		33%	122%	63.47
	Mar	298.94	94.50	0.00	253.530		32%	116%	49.09
	Apr	297.82	94.50	0.00	253.530		32%	117%	50.21
	May	313.56	94.50	0.00	253.530		30%	111%	34.47
	Jun	289.95	94.50	0.00	253.530		33%	120%	58.08
	Jul	290.18	94.50	0.00	253.530		33%	120%	57.85
	Aug	297.87	94.50	0.00	253.530		32%	117%	50.16
	Sep	293.28	94.50	0.00	253.530		32%	119%	54.75
	Oct	303.34	94.50	0.00	253.530		31%	115%	44.69
	Nov	301.83	94.50	0.00	253.530		31%	115%	46.20
	Dec	313.80	94.50	0.00	253.530		30%	111%	34.23

The Peak Demand was forecasted using trend time series analysis and was assumed to occur in the month of December due to high power demand. Monthly Peak Demand is at its lowest in the month of January. In general, Peak Demand is expected to grow at a rate of 5.70% annually. However, on the year 2024 a spot load of 60MW steel mill and a 5 MW cement factory will be entering the SOCOTECO II franchise which will boost energy sales and demand abruptly.

The Electric Cooperative's own use is slightly increasing all throughout the 10-year forecast. This is due to the development of new buildings included in the CAPEX plan of SOCOTECO II as reflected in the site development plan.



The available supply is generally above the Peak Demand as seen in the January power supply contracts. However, during WESM, all RESA contracts will be terminated. In the case of SOCOTECO II, Hedcor and Lamsan were terminated accounting for 33.5 MW of power supply last January 26, 2023 which means that other supply deficit will be sourced to WESM.

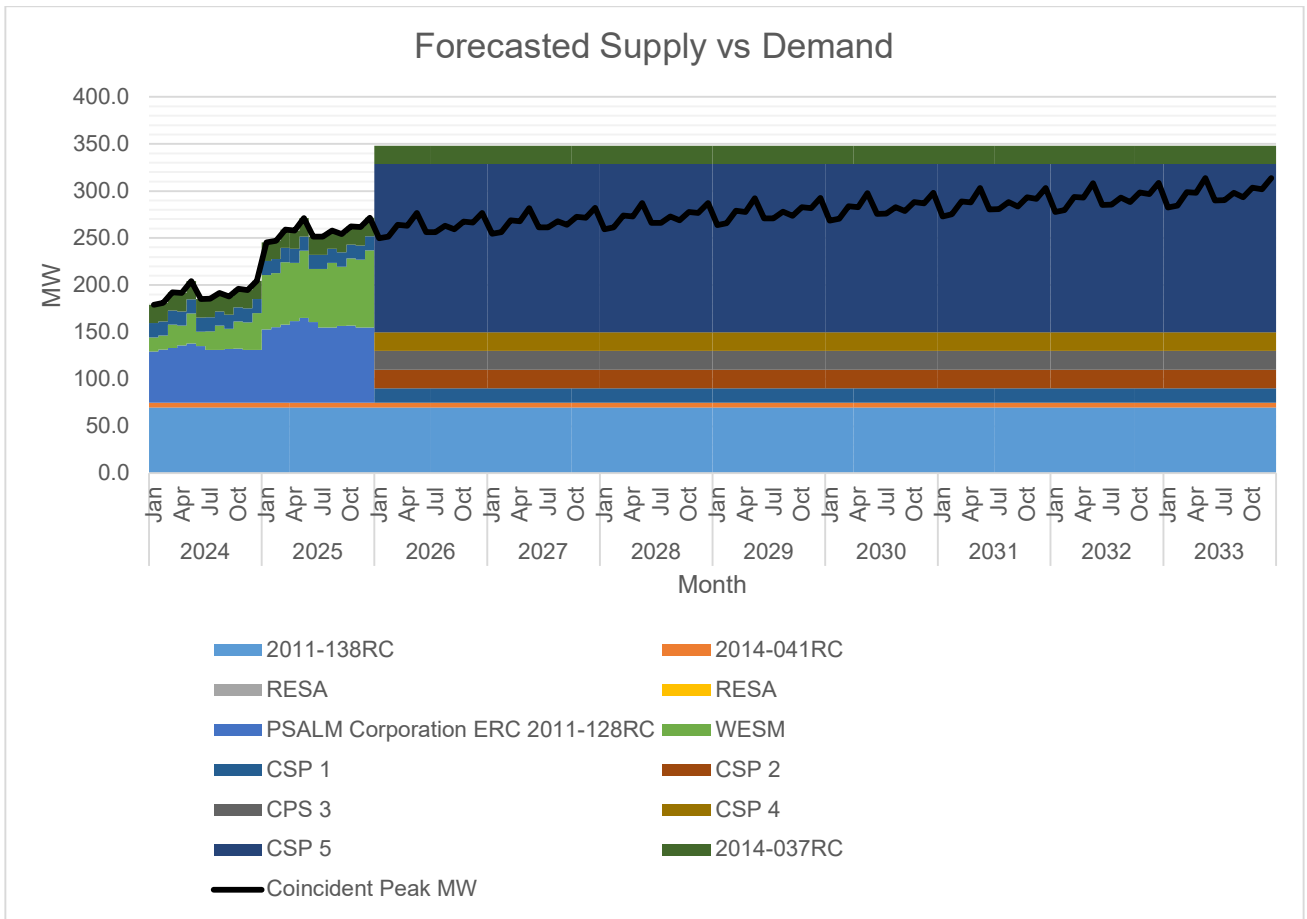
We can notice that by the end of 2024, a large steel mill will enter causing abrupt demand requirements. Planned Additional Power Suppliers will also be considered by SOCOTECO II for 2024 to supply the spot loads that will enter its franchise. A Steel Mill having a peak demand of 60 MW and a 5 MW cement factory will enter SOCOTECO II in 2024. The Cooperative is closely monitoring its start of construction for the materialization of procurement of additional supplies.

We can also notice that the demand will be equal to the supply, this happens when WESM has its commercial operation. All other demand requirements will be sourced to WESM to ensure adequate supply.

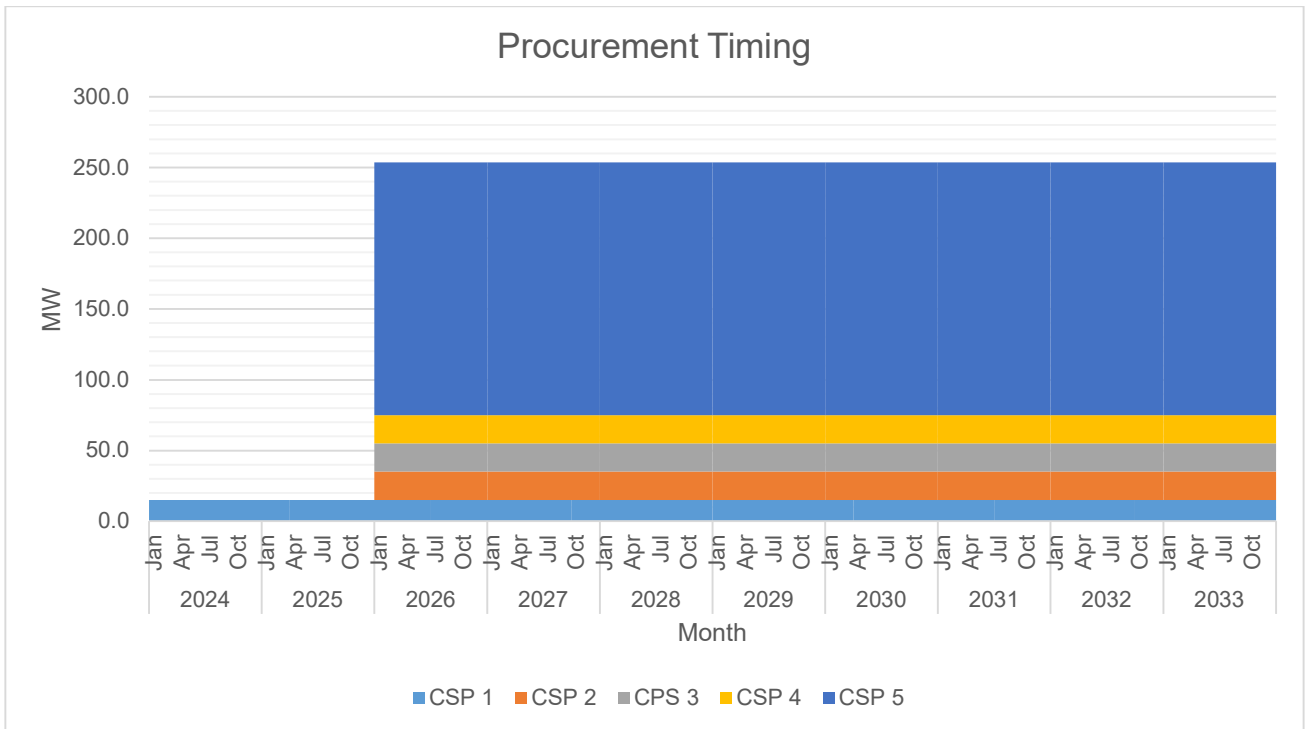
The cooperative got a renewal of contract to PSALM for two years of supply above 80MW. Which started Last December 26, 2023, to December 25, 2025. CSP 5 which will replace PSALM supply will also be done since the CSEE will end.

Three more supplies were planned to supply Panhua Steel Mill with a peak demand requirement of 60MW divided into three contracts to ensure power reliability. Three CSP's will be done for Panhua's emergency supply requirement.

Other supply requirements will be sourced to WESM.



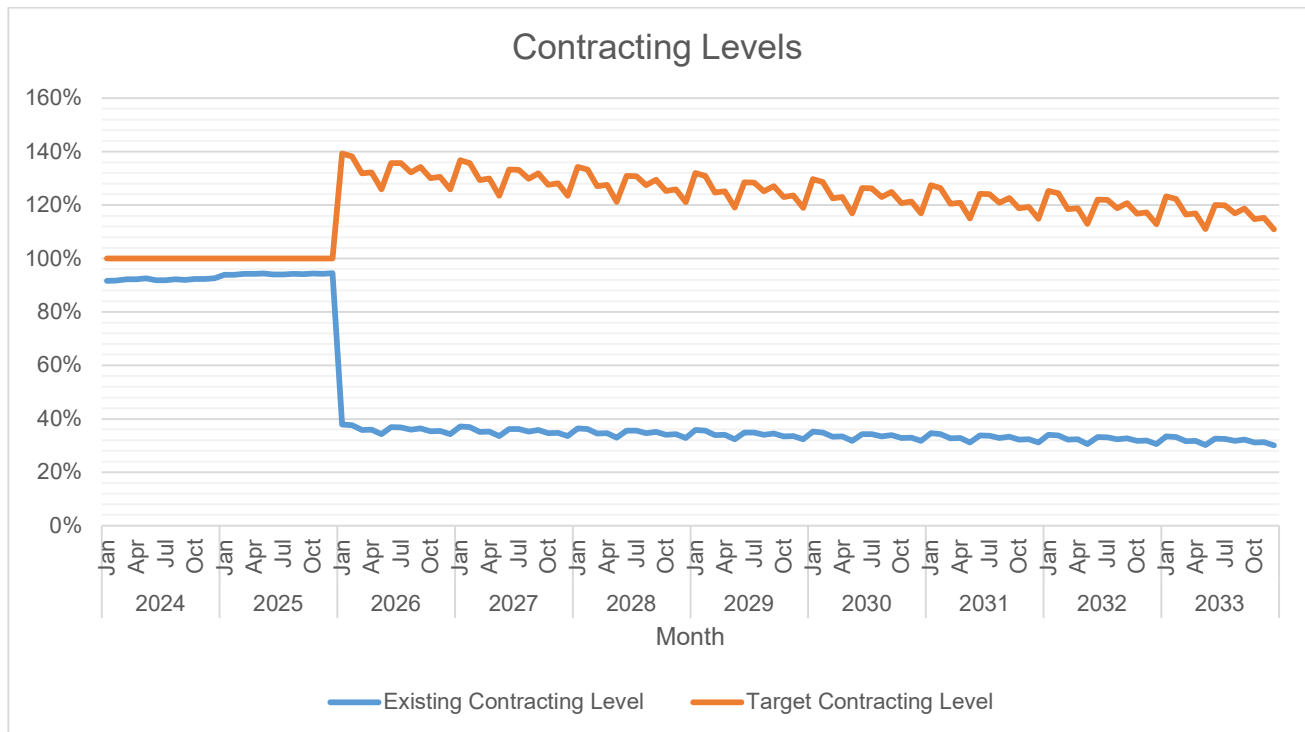
Of the available supply, the largest is 70 MW from Sarangani Energy Corporation (2011-138RC). This is followed by 62.87 MW from PSALM Corporation.



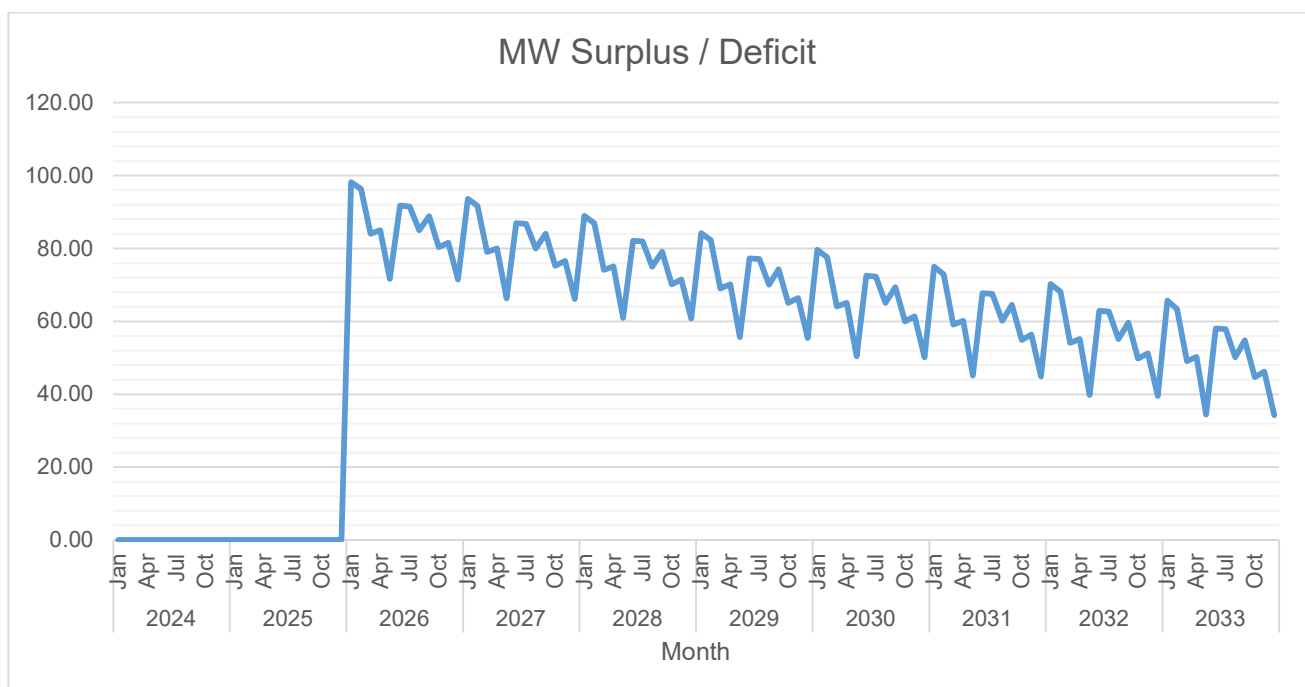
The first wave of supply is contracted to PSALM Corporation last December 26, 2023. The second wave of supply procurement will be for 15 MW planned to be available by the month of January 2024 for Renewable Portfolio Standard compliance. Three other power plants were planned to

supply SOCOTECO II demand intended for the entry of Panhua Steel Mill that will enter SOCOTECO II's portfolio in the first month of the year 2026.

These three supplies have a maximum demand requirement of 20 MW each to increase reliability of supply, having a total demand of 60MW. CSP 5 will also be conducted in replacement of PSALM supply that will eventually end by the last month of 2025. Other supply deficits will be sourced to WESM.



Currently, there is no over contracting since 10% of SOCOTECO II energy supply came from WESM. The cooperative generally planned to have a minimum WESM exposure.



Currently, there is no over-contracting since WESM is operational in Mindanao.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	99,949	88,300	11,291	0.36%	11.34%
	Feb	107,276	90,826	16,089	0.34%	15.05%
	Mar	100,731	85,113	15,232	0.38%	15.18%
	Apr	109,415	91,818	17,213	0.35%	15.79%
	May	112,277	93,653	18,216	0.36%	16.28%
	Jun	109,034	91,563	17,101	0.34%	15.74%
	Jul	105,508	88,563	16,575	0.35%	15.76%
	Aug	107,327	93,522	13,422	0.36%	12.55%
	Sep	112,237	93,749	18,113	0.33%	16.19%
	Oct	113,698	96,346	16,960	0.34%	14.97%
	Nov	114,708	95,036	19,282	0.34%	16.87%
	Dec	115,158	96,044	18,705	0.36%	16.30%
2025	Jan	137,981	126,468	11,023	0.36%	8.02%
	Feb	145,544	129,075	15,975	0.34%	11.01%
	Mar	138,837	123,158	15,162	0.37%	10.96%
	Apr	147,818	130,087	17,215	0.35%	11.69%
	May	150,743	132,004	18,196	0.36%	12.11%
	Jun	147,418	129,848	17,068	0.34%	11.62%
	Jul	143,711	126,744	16,464	0.35%	11.50%
	Aug	145,562	131,879	13,167	0.35%	9.08%
	Sep	150,628	132,100	18,020	0.34%	12.00%
	Oct	152,071	134,799	16,746	0.35%	11.05%
	Nov	153,132	133,427	19,183	0.34%	12.57%
	Dec	153,551	134,481	18,527	0.35%	12.11%
2026	Jan	141,658	130,737	10,443	0.34%	7.40%
	Feb	149,489	133,475	15,537	0.32%	10.43%
	Mar	142,516	127,284	14,755	0.34%	10.39%
	Apr	151,822	134,551	16,794	0.31%	11.10%
	May	154,825	136,539	17,809	0.31%	11.54%
	Jun	151,422	134,274	16,670	0.32%	11.04%
	Jul	147,580	131,022	16,081	0.32%	10.93%
	Aug	149,485	136,397	12,610	0.32%	8.46%
	Sep	154,742	136,643	17,621	0.31%	11.42%
	Oct	156,219	139,458	16,283	0.31%	10.46%
	Nov	157,321	138,038	18,806	0.30%	11.99%
	Dec	157,734	139,130	18,126	0.30%	11.53%
2027	Jan	145,347	134,999	9,871	0.33%	6.81%
	Feb	153,451	137,858	15,115	0.31%	9.88%
	Mar	146,236	131,392	14,367	0.33%	9.86%
	Apr	155,865	138,982	16,405	0.31%	10.56%
	May	158,972	141,059	17,436	0.30%	11.00%
	Jun	155,450	138,693	16,280	0.31%	10.50%
	Jul	151,476	135,296	15,702	0.32%	10.40%
	Aug	153,446	140,911	12,058	0.31%	7.88%
	Sep	158,886	141,167	17,241	0.30%	10.88%

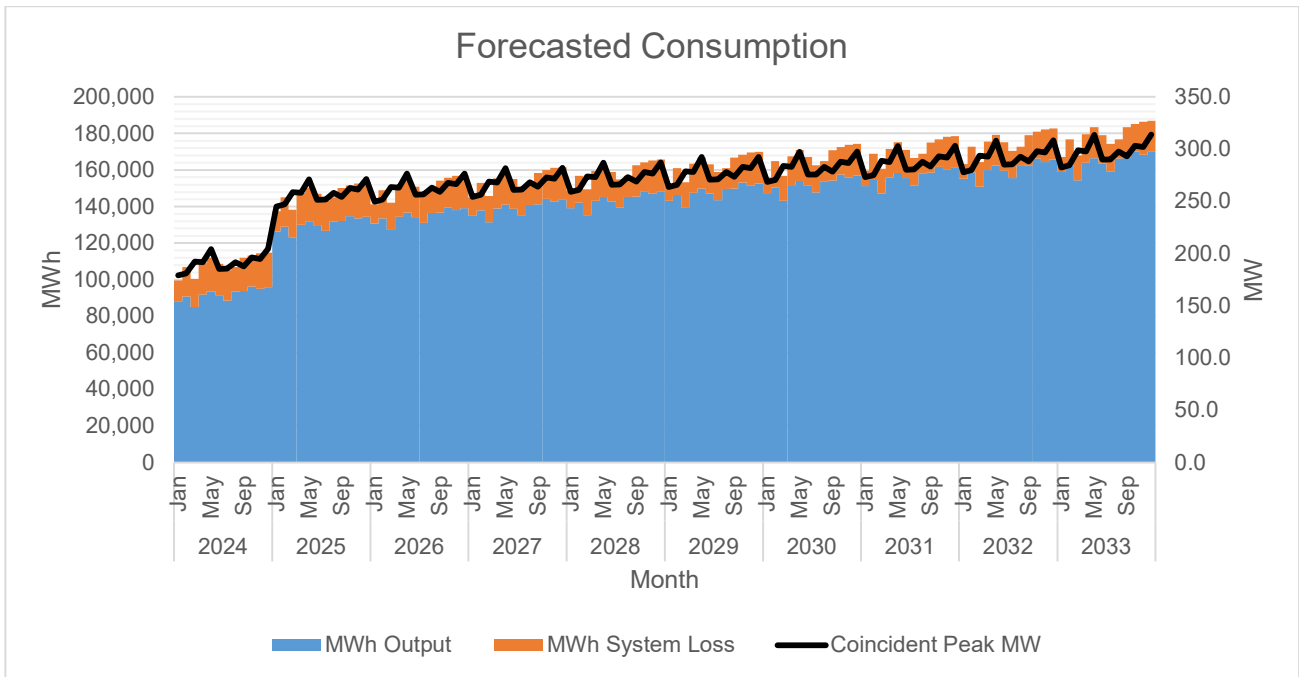
	Oct	160,414	144,108	15,829	0.30%	9.90%
	Nov	161,555	142,624	18,453	0.30%	11.46%
	Dec	161,982	143,765	17,739	0.29%	10.98%
2028	Jan	149,037	139,046	9,513	0.32%	6.40%
	Feb	157,413	142,022	14,913	0.30%	9.50%
	Mar	149,955	135,293	14,184	0.32%	9.49%
	Apr	159,908	143,191	16,239	0.30%	10.19%
	May	163,120	145,352	17,290	0.29%	10.63%
	Jun	159,479	142,890	16,111	0.30%	10.13%
	Jul	155,371	139,356	15,537	0.31%	10.03%
	Aug	157,408	145,198	11,733	0.30%	7.48%
	Sep	163,030	145,465	17,088	0.29%	10.51%
	Oct	164,610	148,525	15,608	0.29%	9.51%
	Nov	165,789	146,981	18,330	0.29%	11.09%
	Dec	166,230	148,168	17,585	0.29%	10.61%
2029	Jan	152,726	143,160	9,089	0.31%	5.97%
	Feb	161,374	146,253	14,644	0.30%	9.10%
	Mar	153,674	139,258	13,938	0.31%	9.10%
	Apr	163,951	147,469	16,004	0.29%	9.79%
	May	167,267	149,715	17,074	0.29%	10.24%
	Jun	163,508	147,156	15,874	0.29%	9.74%
	Jul	159,266	143,482	15,307	0.30%	9.64%
	Aug	161,369	149,555	11,337	0.30%	7.05%
	Sep	167,174	149,833	16,864	0.29%	10.12%
	Oct	168,805	153,013	15,315	0.28%	9.10%
	Nov	170,023	151,409	18,136	0.28%	10.70%
	Dec	170,479	152,643	17,358	0.28%	10.21%
2030	Jan	156,416	147,236	8,703	0.31%	5.58%
	Feb	165,336	150,445	14,413	0.29%	8.74%
	Mar	157,394	143,187	13,729	0.30%	8.75%
	Apr	167,993	151,707	15,809	0.28%	9.44%
	May	171,414	154,038	16,899	0.28%	9.89%
	Jun	167,537	151,382	15,677	0.29%	9.38%
	Jul	163,162	147,570	15,115	0.29%	9.29%
	Aug	165,331	153,871	10,982	0.29%	6.66%
	Sep	171,319	154,160	16,682	0.28%	9.76%
	Oct	173,001	157,460	15,063	0.28%	8.73%
	Nov	174,256	155,795	17,984	0.27%	10.35%
	Dec	174,727	157,076	17,174	0.27%	9.86%
2031	Jan	160,105	151,264	8,363	0.30%	5.24%
	Feb	169,298	154,589	14,231	0.28%	8.43%
	Mar	161,113	147,070	13,565	0.30%	8.44%
	Apr	172,036	155,896	15,663	0.28%	9.13%
	May	175,561	158,311	16,773	0.27%	9.58%
	Jun	171,566	155,560	15,528	0.28%	9.08%
	Jul	167,057	151,610	14,969	0.29%	8.99%
	Aug	169,292	158,138	10,677	0.28%	6.32%
	Sep	175,463	158,437	16,548	0.27%	9.46%
	Oct	177,197	161,856	14,863	0.27%	8.41%
	Nov	178,490	160,131	17,882	0.27%	10.05%

	Dec	178,975	161,458	17,040	0.27%	9.55%
2032	Jan	163,795	155,239	8,079	0.29%	4.95%
	Feb	173,259	158,677	14,105	0.28%	8.16%
	Mar	164,832	150,901	13,454	0.29%	8.19%
	Apr	176,079	160,029	15,573	0.27%	8.87%
	May	179,708	162,526	16,705	0.27%	9.32%
	Jun	175,595	159,681	15,436	0.27%	8.81%
	Jul	170,952	155,596	14,878	0.28%	8.73%
	Aug	173,254	162,348	10,429	0.28%	6.04%
	Sep	179,607	162,656	16,473	0.27%	9.20%
	Oct	181,392	166,193	14,722	0.26%	8.14%
	Nov	182,724	164,409	17,838	0.26%	9.79%
	Dec	183,223	165,780	16,965	0.26%	9.28%
2033	Jan	167,484	158,924	8,082	0.29%	4.84%
	Feb	177,221	162,469	14,275	0.27%	8.08%
	Mar	168,552	154,454	13,620	0.28%	8.10%
	Apr	180,122	163,861	15,783	0.27%	8.79%
	May	183,855	166,435	16,943	0.26%	9.24%
	Jun	179,623	163,503	15,643	0.27%	8.73%
	Jul	174,848	159,293	15,077	0.27%	8.65%
	Aug	177,216	166,252	10,486	0.27%	5.93%
	Sep	183,751	166,570	16,704	0.26%	9.11%
	Oct	185,588	170,214	14,896	0.26%	8.05%
	Nov	186,958	168,376	18,105	0.26%	9.71%
	Dec	187,472	169,790	17,204	0.25%	9.20%

MWh Offtake was forecasted using Trend time series analysis. The assumed load factor is 70%.

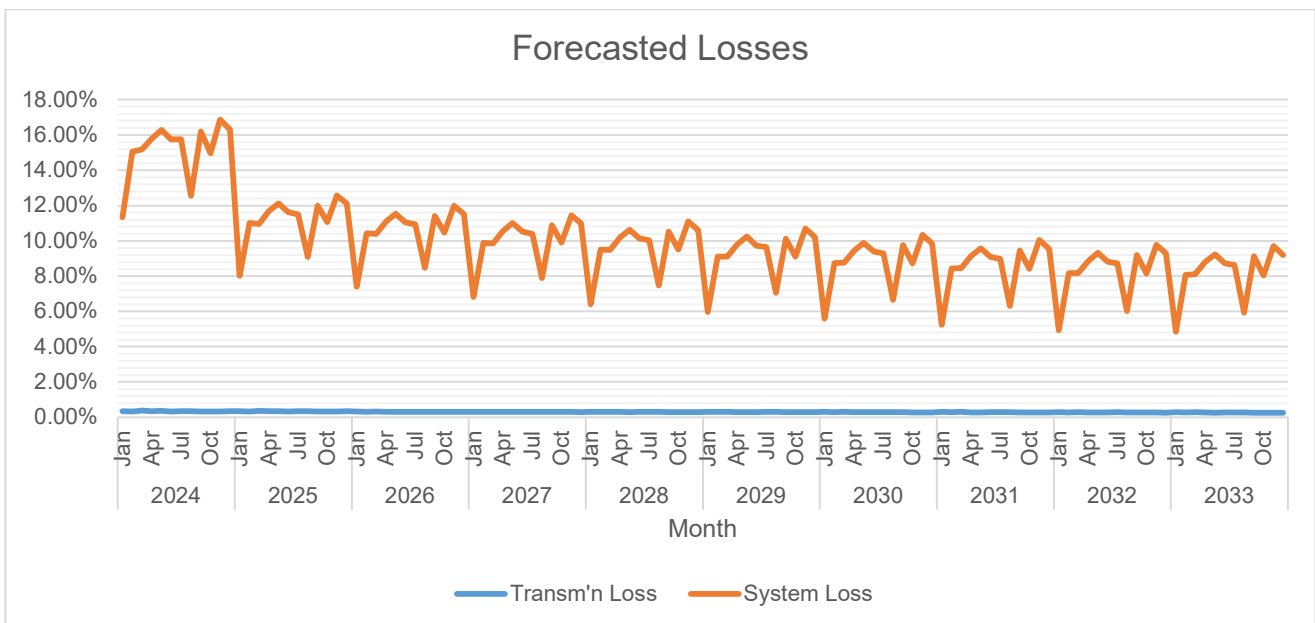
System Loss was calculated through a Load Flow Study conducted using ETAP software. Based on the same study, the Distribution System can adequately convey electricity to customers. The system loss will significantly drop due to the entry of Panhua Steel Mill and several loads plus the effort of the cooperative to continuously lower the system loss.

The new software for the Power System Analysis will be used. Synergi will be online once Geographical Information System will take place that is currently on going.



MWh Output was expected to grow at a rate of 3.57% annually. However, there is an abrupt increase in energy consumption due to the entry of a large steel mill having 60 MW peak demand and a 5 MW cement factory.

System Loss is expected to drop below 12.57% due to entry of Panhua Steel Mill which will abruptly increase sales by 2025.



System Loss is expected to range below 12.57% due to the entry of Panua Steel Mill and the efforts of SOCOTECO II team to maintain its losses under the required limits of 8.25% feeder loss and will continue to go down on the future.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2011-138RC	Base	Sarangani Energy Corporation	70.00	544,320	6/3/2011	6/11/2036
2014-041RC	Base	Therma South, Inc.	5.00	38,400	9/27/2013	9/28/2038
RESA	Base	Hedcor, Inc.	20.00	113,880	7/2/2018	1/26/2023
RESA	Base	Lamsan Power Corporation	13.50	110,000	5/1/2018	1/26/2023
2014-037RC	Peaking	Peakpower Soccsargen, Inc.	19.50	145,197	3/20/2013	3/20/2028
PSALM Corporation ERC 2011-128RC	Base	Power Sector Assets and Liabilities Management Corporation	54.37	430,100	12/26/2023	12/25/2025

The PSA with Sarangani Energy Corporation filed with ERC under Case No. 2011-138RC was procured through Swiss challenge. It was selected to provide for base requirements due to lack of power in the Mindanao grid resulting to manual load dropping in 2010. Historically, the utilization of the PSA is 40-100%. The actual billed overall monthly charge under the PSA ranged from 5.00 P/kWh to 13.00 P/KWh in the same period.

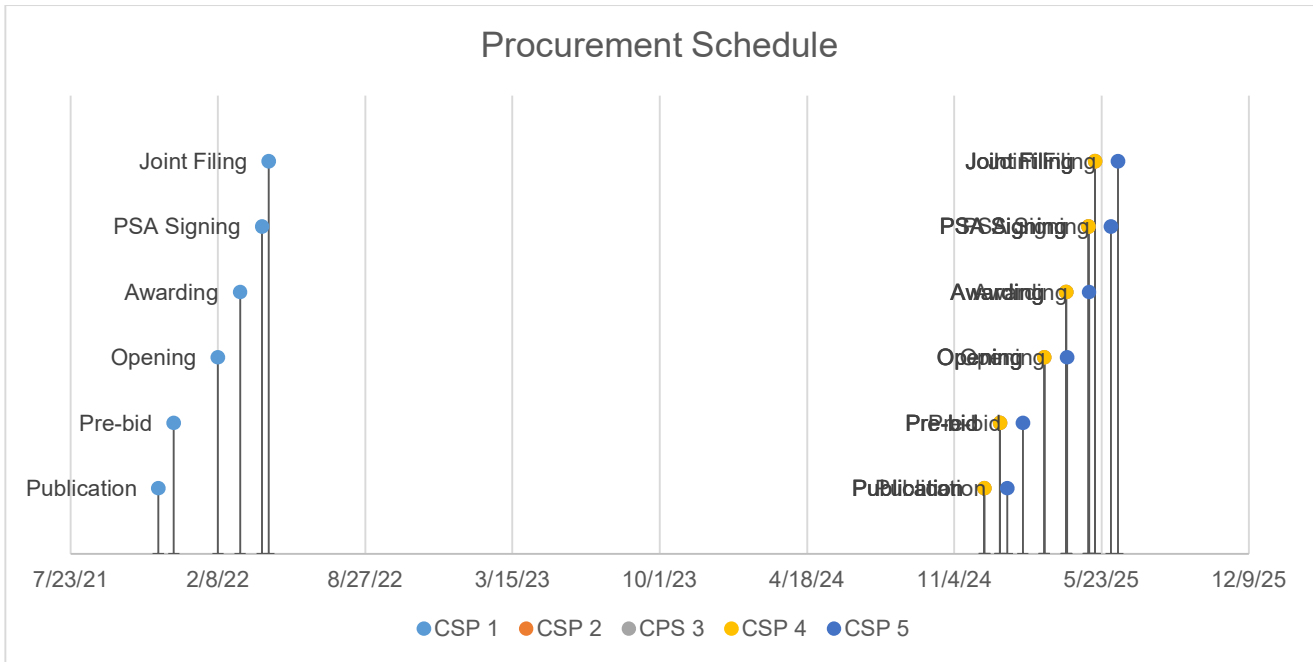
The PSA with Therma South, Inc. filed with ERC under Case No. 2014-041RC was procured through Swiss challenge. It was selected to provide for base requirements due to immediate need of power to adequately supply the growing need in power in the SOCOTECO II franchise area. Historically, the utilization of the PSA is 40-100%. The actual billed overall monthly charge under the PSA ranged from 7.00 P/kWh to 15.00 P/KWh in the same period.

The PSA with Hedcor and Lamsan filed with ERC RESA was procured. It was selected to provide for base requirements due to immediate need of power to adequately supply the growing need in power in the SOCOTECO II franchise area as priority dispatch because it is a Renewable Energy Source. The actual billed overall monthly charge under the PSA is based on previous month's blended rate of SOCOTECO II. The contract ended last January 26, 2023 upon the commercial operation of WESM Mindanao.

The PSA with Peak Power was procured ERC under Case No. 2014-037RC. It was selected to provide for peak requirements to cater the peak demand of SOCOTECO II without interruption and for voltage support in case of plant shutdown due to maintenance. The Power Supply Contract with Peak Power will end on March 20, 2028, however, this will continue to operate since this is a Build-Operate-Transfer contract. In the year 2028, it will now be operated by the cooperative.

The PSA with PSALM Corporation 2018-054RC was selected to provide for base requirements to maintain enough supply and minimize the generation cost. Historically, the utilization of the PSA is 40-100%. The actual billed overall monthly charge under the PSA ranged from 2.00 P/kWh to 3.00 P/KWh in the same period. The PSA is already renewed last Decemeber 26, 2023 and will end on December 25, 2025.

	CSP 1	CSP 2	CPS 3	CSP 4	CSP 5
Type	Base	Base	Base	Base	Base
Minimum MW	15.00	20.00	20.00	20.00	178.53
Minimum MWh/yr	85,000	122,640	122,640	122,640	938,354
PSA Start	1/26/2024	12/26/2025	12/26/2025	12/26/2025	12/26/2025
PSA End	1/25/2039	7/25/2040	7/25/2040	7/25/2040	12/25/2033
Publication	11/19/2021	12/15/2024	12/15/2024	12/15/2024	1/15/2025
Pre-bid	12/10/2021	1/5/2025	1/5/2025	1/5/2025	2/5/2025
Opening	2/8/2022	3/6/2025	3/6/2025	3/6/2025	4/6/2025
Awarding	3/10/2022	4/5/2025	4/5/2025	4/5/2025	5/6/2025
PSA Signing	4/9/2022	5/5/2025	5/5/2025	5/5/2025	6/5/2025
Joint Filing	4/18/2022	5/14/2025	5/14/2025	5/14/2025	6/14/2025

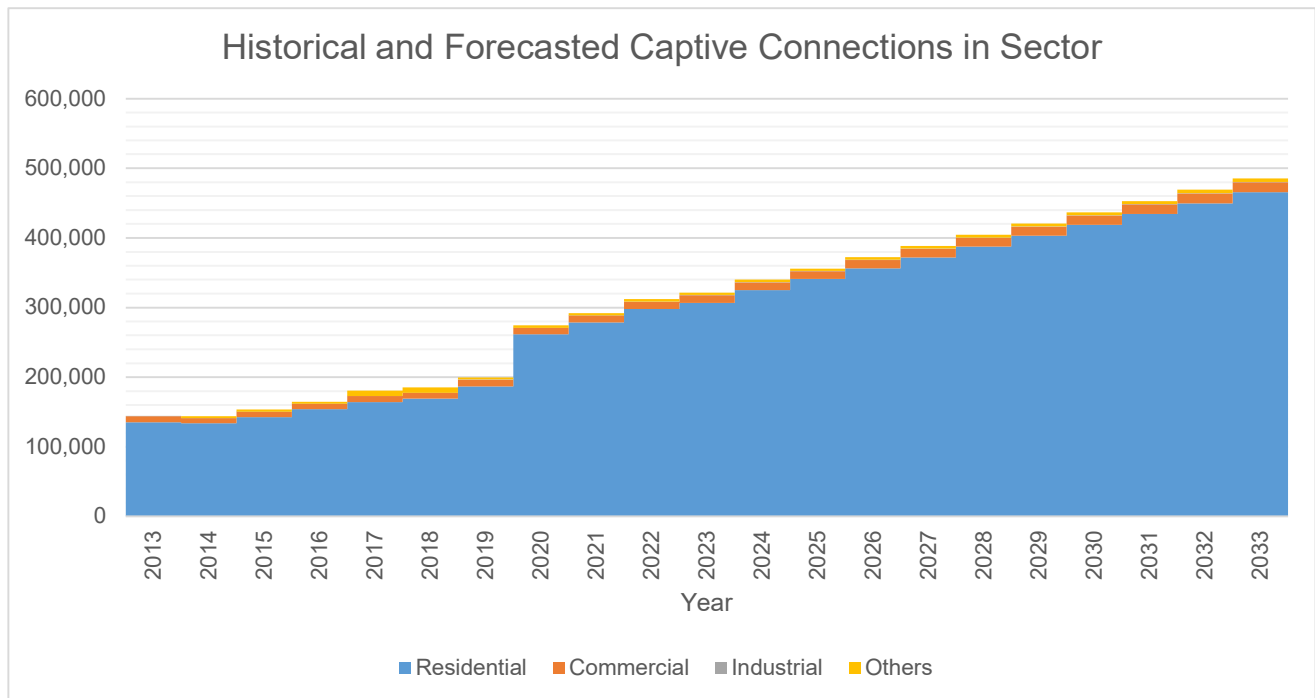


PSALM Corporation officially renewed and started its PSA last December 26, 2023. The PSA is considered by SOCOTECO II since it has the lowest rate in the market which will maintain the effective rate of the cooperative below Php 10.00 / kwhr.

For the procurement of 15 MW of supply which is planned to be available in the first quarter of 2024 for RPS compliance. The bidding commenced last 2022 wherein 2 failed biddings were recorded. Winning Bidder is Siguil Hydro Power Corporation. Currently, the PSA between SOCOTECO II is on process. Test and Commissioning will be done on January 2024 and the energization will be on the first quarter of 2024. The power supply contract is still under negotiation with the winning bidder.

Then a 60 MW supply for Panhua Steel Mill was divided into three different PSAs of 20MW each. The steel mill is currently under construction and is expected to be operational in the last Quarter of 2025 having a peak demand of 60 MW.

Captive Customer Connections



The number of residential connections is expected to grow at a rate of 3.025% annually. However, a survey is made from SOCOTECO II actual connection to determine the true level of energization. The survey determined series connections, these series connections consists of household that are not qualified to get permits from the government that causes surge in energization level in the year 2020.