



# Power Supply Procurement Plan 2025-2034

Prepared by:

**ENGR. SANDY T. MONTERO, REE**  
Engineering & Line Operation Maintenance Dept. Manager

Checked/Approved by:

**ATTY. EDSON G. PICZON**  
General Manager

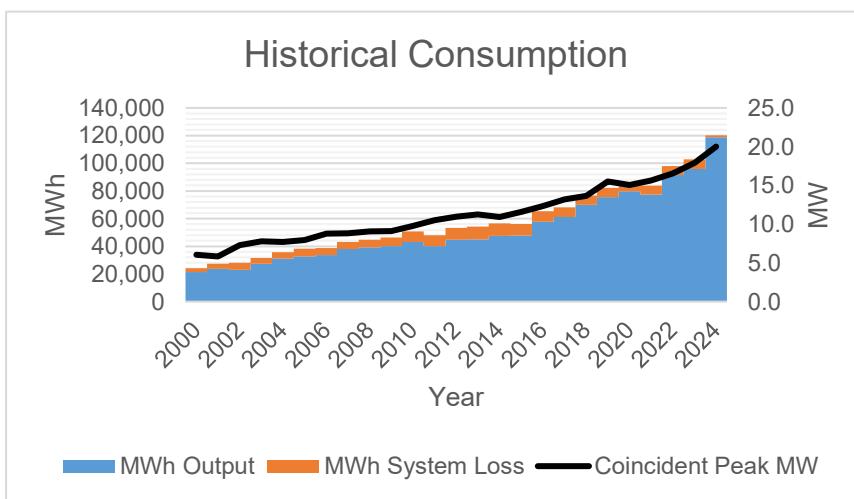
Endorsed by:

**LEONARDO B. PICZON**  
Board President

## Historical Consumption Data

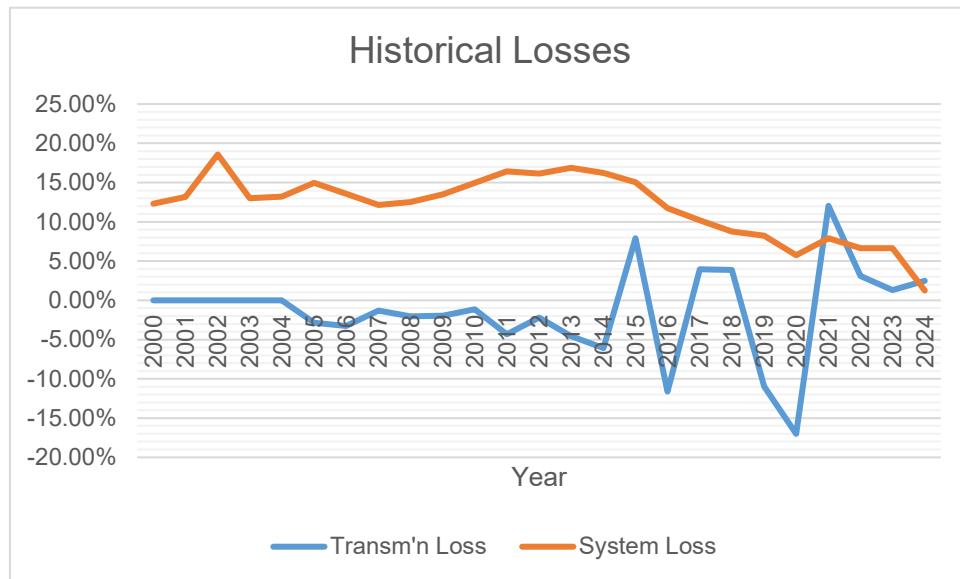
	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	6.04	0	0	24,261	21,278	2,983	46%	0.00%	#DIV/0!	12.30%
2001	5.83	0	0	27,349	23,747	3,602	54%	0.00%	#DIV/0!	13.17%
2002	7.28	0	0	28,151	22,923	5,229	44%	0.00%	#DIV/0!	18.57%
2003	7.78	0	0	31,592	27,483	4,108	46%	0.00%	#DIV/0!	13.00%
2004	7.70	0	0	35,735	31,009	4,727	53%	0.00%	#DIV/0!	13.23%
2005	7.95	37,294	0	38,363	32,621	5,742	55%	0.00%	-2.87%	14.97%
2006	8.77	37,623	0	38,847	33,566	5,281	51%	0.00%	-3.25%	13.59%
2007	8.84	42,646	0	43,203	37,961	5,242	56%	0.00%	-1.30%	12.13%
2008	9.06	43,839	0	44,729	39,125	5,604	56%	0.00%	-2.03%	12.53%
2009	9.10	45,530	0	46,422	40,165	6,257	58%	0.00%	-1.96%	13.48%
2010	9.79	50,135	0	50,707	43,113	7,593	59%	0.00%	-1.14%	14.98%
2011	10.52	46,049	0	48,038	40,155	7,883	52%	0.00%	-4.32%	16.41%
2012	10.97	52,188	0	53,348	44,735	8,613	55%	0.00%	-2.22%	16.15%
2013	11.24	51,770	0	54,140	44,994	9,146	55%	0.00%	-4.58%	16.89%
2014	10.92	53,398	0	56,646	47,454	9,191	59%	0.00%	-6.08%	16.23%
2015	11.60	60,962	1,775	56,130	47,683	8,447	55%	0.00%	7.93%	15.05%
2016	12.35	58,554	-1,236	65,354	57,687	7,667	60%	0.00%	-11.61%	11.73%
2017	13.18	70,820	-1,346	68,019	61,093	6,933	59%	0.01%	3.96%	10.19%
2018	13.64	79,846	-4,204	76,756	70,033	6,723	64%	0.00%	3.87%	8.76%
2019	15.53	74,025	10,488	82,149	75,451	6,762	60%	0.08%	-10.97%	8.23%
2020	15.04	72,280	10,623	84,570	79,696	4,873	64%	0.00%	-17.00%	5.76%
2021	15.63	95,422	-6,106	83,934	77,281	6,653	61%	0.00%	12.04%	7.93%
2022	16.56	101,197	5,118	98,053	91,539	6,513	68%	0.00%	3.11%	6.64%
2023	17.92	103,979	-9,029	102,605	95,945	6,810	65%	0.15%	1.32%	6.64%
2024	20.01	117,201	23,775	114,288	118,819	1,422	65%	5.21%	2.49%	1.24%

Peak Demand increased from 6.04 MW in the year 2000 to 20.01 MW in the year 2024 at an average rate of 4.72% due to the increase in the number of customers and its equivalent demand. In 2024 there was an obviously large discrepancy in MWh, this is due to SAMELCO I's Embedded 1MW Solar.



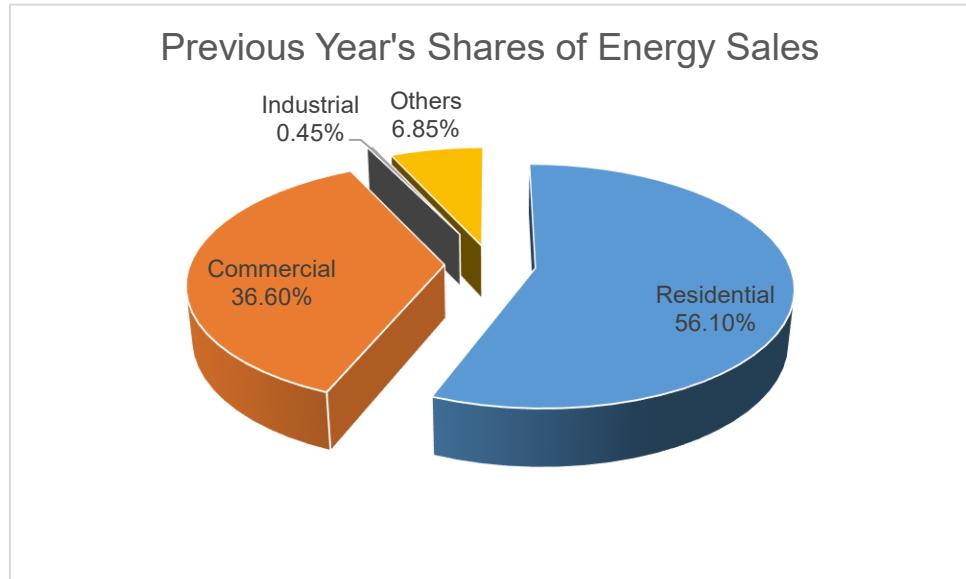
MWh Offtake increased from 37,294 MWh in 2005 to 117,201 MWh in 2024 at a rate of 6.65% due to the increase of our total demand. Within the same period, Load Factor ranged from 51% to 68%. There was an abrupt change in consumption on year 2024 due to the increasing demand and additional established being constructed within the franchise area of SAMELCO I.

MWh Output increased from year 2000 to year 2024 at an average rate of 7.71%, while MWh System Loss decreased at an average rate of 1.44% within the same period.



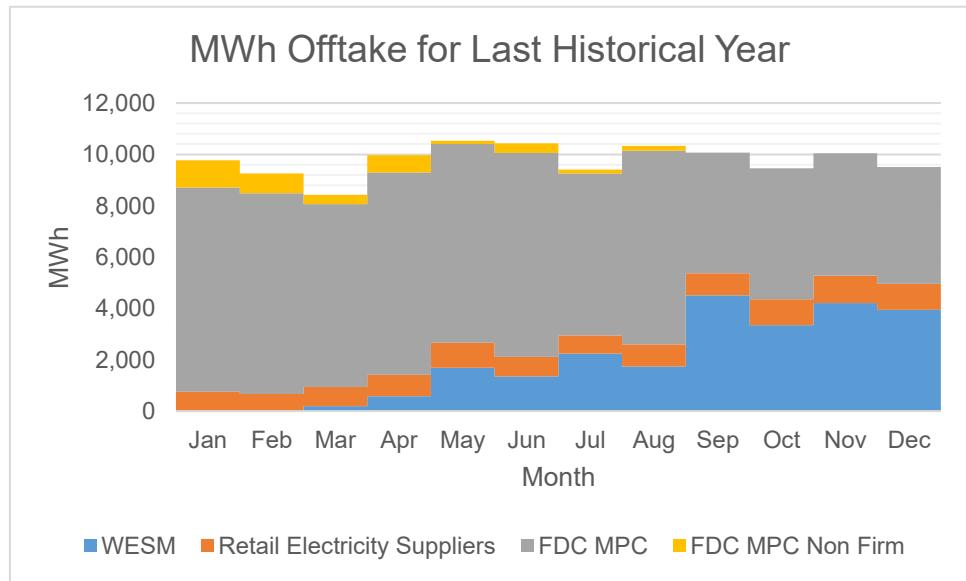
Historically, Transmission Loss fluctuated between -17.00% and 12.04%, while System Loss ranged from 12.30% in 2000 to 1.24% in 2024. The peak in Transmission Loss occurred in 2021, reaching 12.04%, attributed to the unavailability of WESM in July. Conversely, System Loss peaked at 18.57% in 2002, attributed to underrated wires, dilapidated meters, and the non-imposition of correct multipliers on large load consumers.

To bolster the system loss reduction program and enhance reliability, the cooperative obtained a loan from NEA under the Single Digit System Loss Program (SDSL) to fund the acquisition of kWh meters for replacement. In 2016, the Engineering and LOM Department formed a dedicated team to oversee a large-scale replacement initiative, transitioning from old and dilapidated kWh meters to electronic ones. Consequently, the cooperative achieved a significant reduction in average system loss, achieving single-digit figures for 2018 to 2024 respectively, with an average of 6.84%.

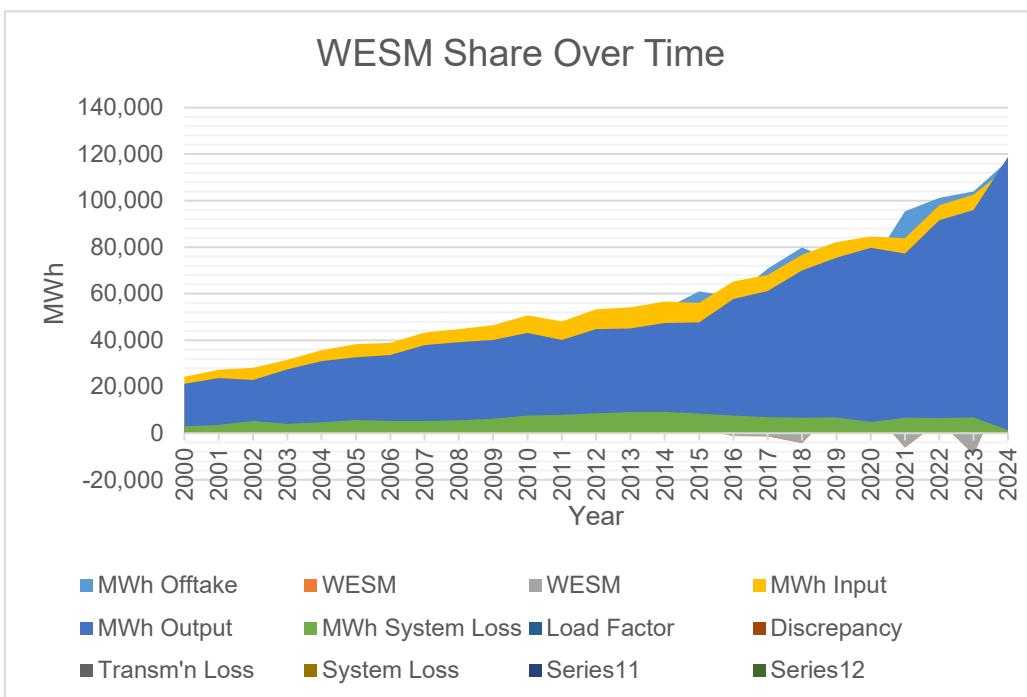


Residential customers dominate energy sales, constituting 56.10% of the total, driven by a high number of connections, while Commercial customers follow at 36.60% and Industrial at 0.45%. Conversely, energy sales to Others (Public Buildings and Street Lights) only contribute 6.85%, reflecting a lower number of connections in this segment.

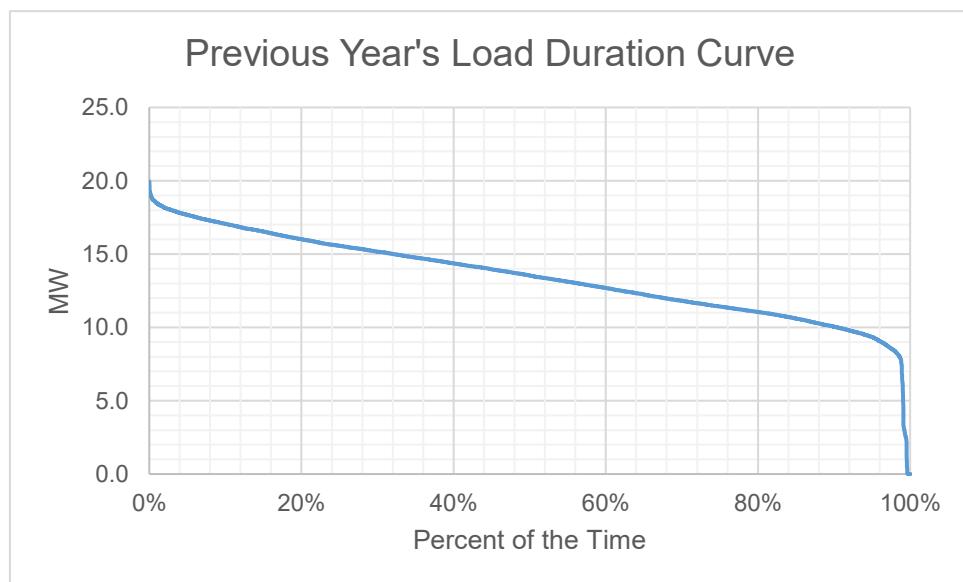
As illustrated in the chart, the bulk of the cooperative's revenue is derived from residential customers, a trend attributed to the cooperative's coverage areas being predominantly non-highly urbanized or industrialized locales.



For 2024, the total Offtake for the last historical year is higher than the quantity stipulated in the Emergency Power Supply Agreement (EPSA). The EPSA with a contracted capacity of 8 MW from FDCMPC accounts for the bulk of MWh Offtake.

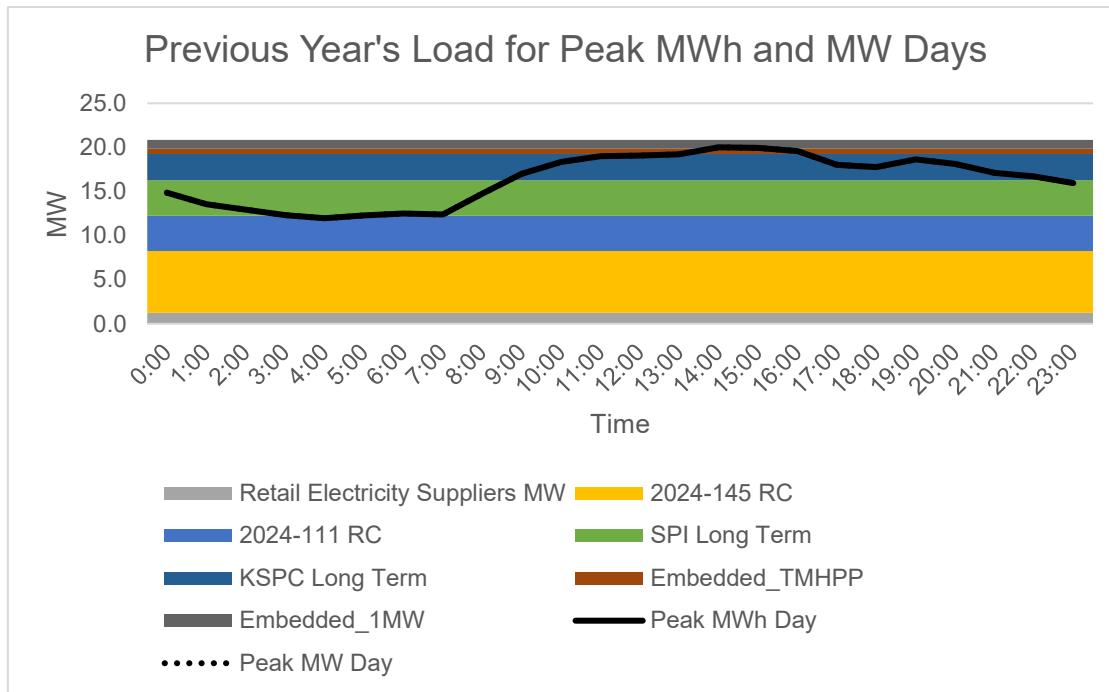


WESM offtake surged from 1,775 MWh in 2015 to 23,775 MWh in 2024, reflecting an average rate of 6.13%, attributed to the increased energy demand and the lack of Power Supplier Contract. The net WESM transaction ranged from -1,236 to -9,029 MWh, primarily due to the resale of unutilized power to WESM.

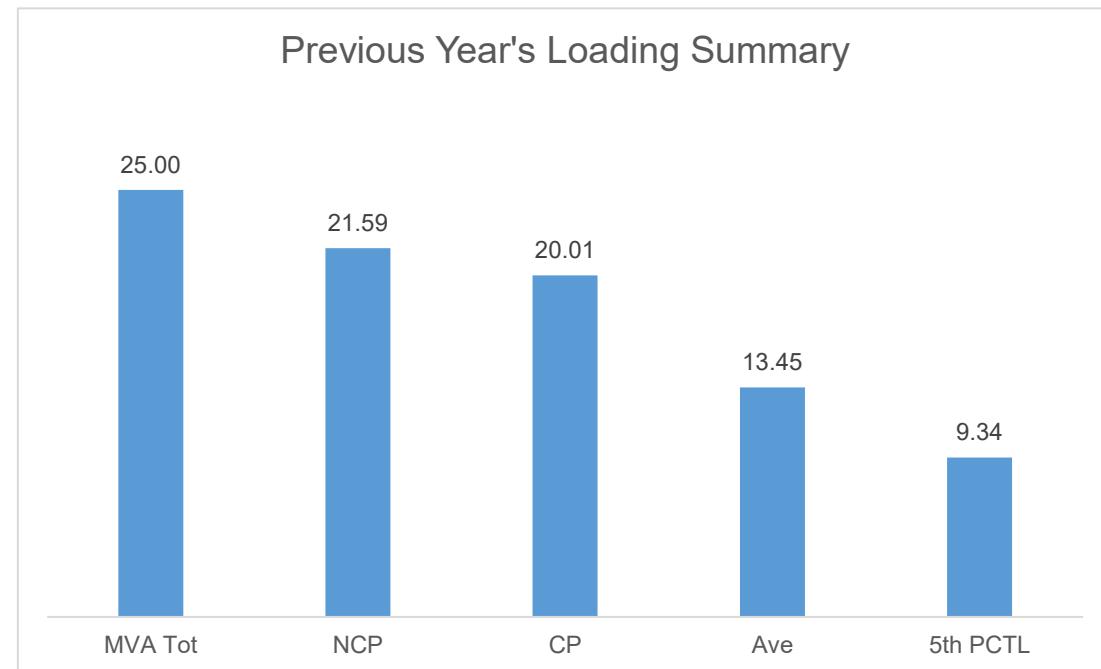


## Previous Year's Load Profile

Based on the Load Duration Curve, the minimum load is 11.97 MW and the maximum load is 20.01 MW for the last historical year.



Peak MW occurred on 2:00 PM due to start of business operation of the commercial and big load customer including public building/government in the City Proper. Peak daily MWh occurred on hour 1 due to hour 24. As shown in the Load Curves, the available supply is lower than the Peak Demand during peak hour.



The Non-coincident Peak Demand stands at 21.59 MW, representing approximately 86.36% of the total substation capacity of 25 MVA, assuming a power factor of 96%. The load factor, calculated as the ratio between the Average Load of 13.45 MW and the Non-coincident Peak Demand, amounts to 62.30%. A safe estimate of the true minimum load, known as the fifth percentile load, is 9.34 MW, constituting 43.26% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
SAN AGUSTINE	5	4.462
CAPOOCAN	10	10.125
PALANAS CARA	10	7.004

All substations are experiencing loads exceeding 70% capacity. To address this issue, a new 20MVA substation will be installed at SAMELCO 1 HQ, Brgy. Carayman, Calbayog City, and is scheduled to be commissioned in the first quarter of 2025.

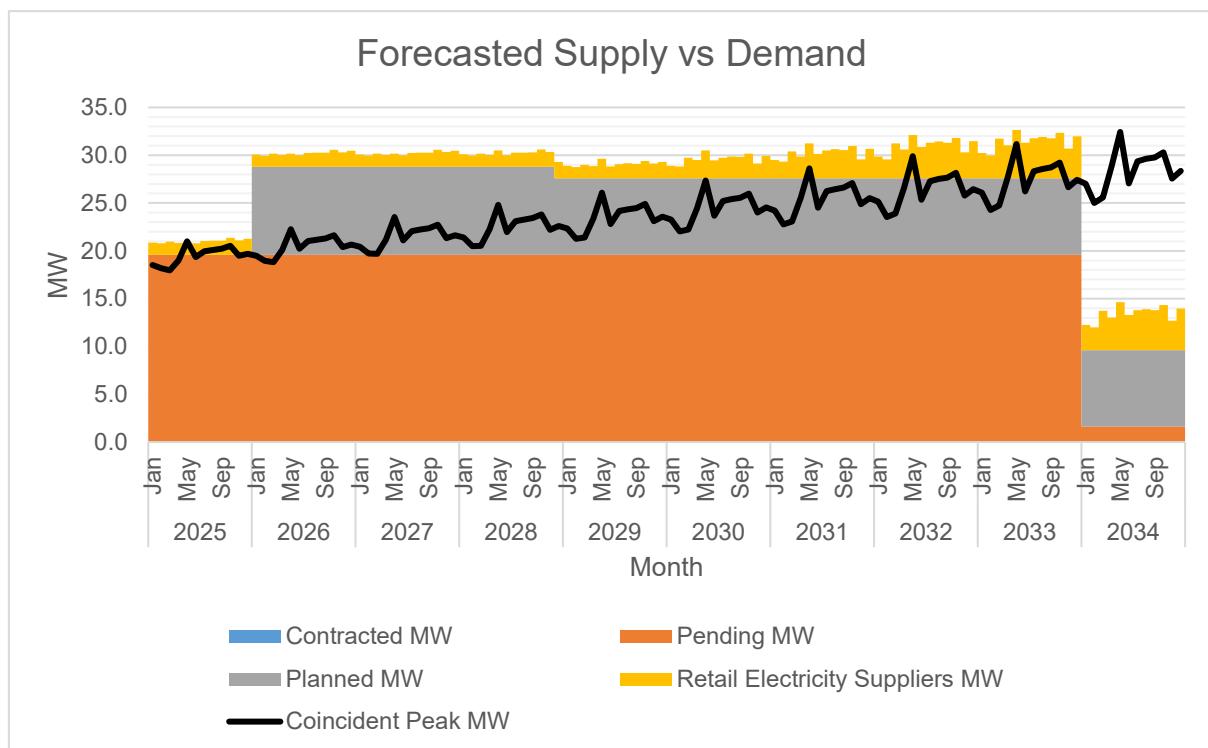
## Forecasted Consumption Data

Peak Demand forecasts were based on assumptions drawn from historical data covering the past seven years of operation, with the expectation that it would peak in May, coinciding with the summer season, and reach its lowest point in March due to the rainy season. On average, Peak Demand is projected to increase by 4.61% annually over a ten-year period, excluding the spot load that will come online in the upcoming years. However, the growth rate averaged 2% from 2022 to 2023, attributable to the transfer of two commercial customers to RES and the impact of the pandemic. Despite this, the energization of additional significant load customers, such as Pure Gold Calbayog (500kW), Calbayog City Hardware (500kW), J&F (750kW), Calbayog City Airport (500kW), West Prime Hotel, and Shakey's, has been considered. Furthermore, projections have accounted for upcoming operations from 2026 to 2028, including the Samar Medical Center (500kW) and Robinson (2MW).

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2025	Jan	18.53	0.00	19.60	0.000	1.27	0%	114%	2.34
	Feb	18.18	0.00	19.60	0.000	1.18	0%	115%	2.61
	Mar	17.96	0.00	19.60	0.000	1.36	0%	118%	3.00
	Apr	18.99	0.00	19.60	0.000	1.23	0%	110%	1.84
	May	21.00	0.00	19.60	0.000	1.34	0%	100%	-0.06
	Jun	19.36	0.00	19.60	0.000	1.19	0%	108%	1.43
	Jul	19.97	0.00	19.60	0.000	1.43	0%	106%	1.06
	Aug	20.08	0.00	19.60	0.000	1.46	0%	105%	0.98
	Sep	20.24	0.00	19.60	0.000	1.46	0%	104%	0.83
	Oct	20.54	0.00	19.60	0.000	1.77	0%	104%	0.83
	Nov	19.50	0.00	19.60	0.000	1.51	0%	109%	1.61
	Dec	19.68	0.00	19.60	0.000	1.67	0%	109%	1.59
2026	Jan	19.48	0.00	19.60	9.200	1.28	0%	158%	10.59
	Feb	18.96	0.00	19.60	9.200	1.15	0%	162%	10.99
	Mar	18.82	0.00	19.60	9.200	1.37	0%	165%	11.35
	Apr	20.08	0.00	19.60	9.200	1.24	0%	153%	9.95
	May	22.27	0.00	19.60	9.200	1.35	0%	138%	7.88
	Jun	20.23	0.00	19.60	9.200	1.20	0%	151%	9.76
	Jul	21.02	0.00	19.60	9.200	1.44	0%	147%	9.21
	Aug	21.15	0.00	19.60	9.200	1.47	0%	146%	9.12
	Sep	21.30	0.00	19.60	9.200	1.47	0%	145%	8.97
	Oct	21.63	0.00	19.60	9.200	1.77	0%	145%	8.94

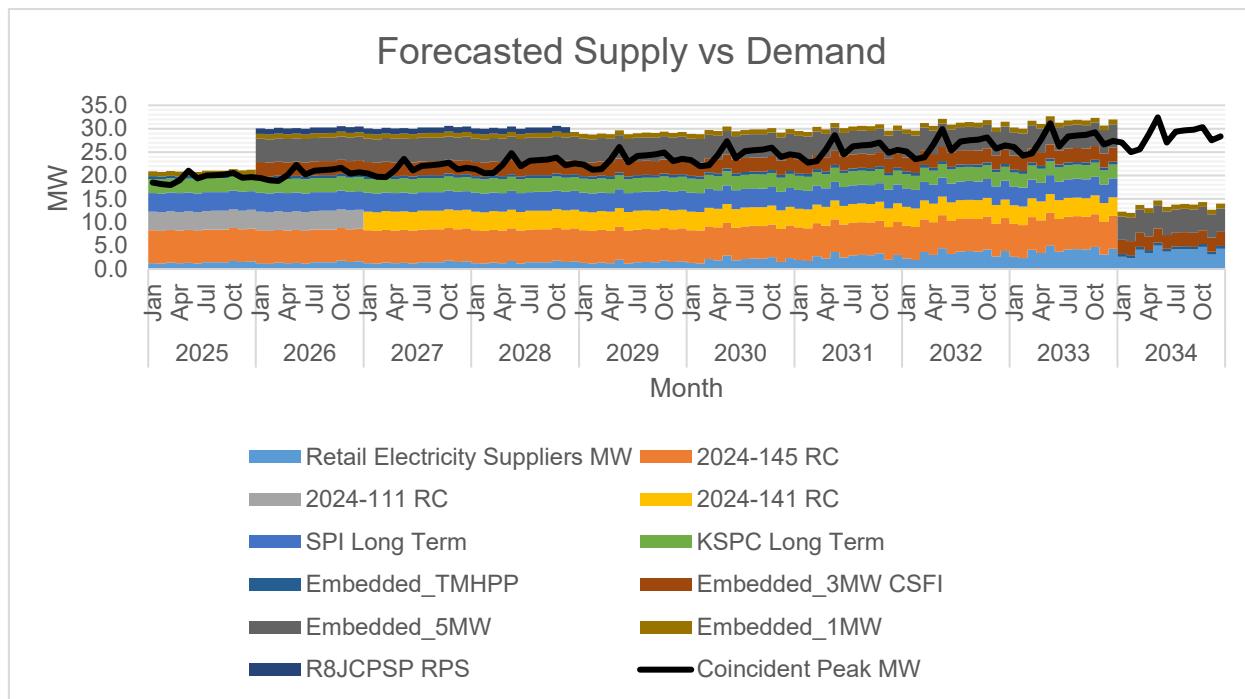
	Nov	20.41	0.00	19.60	9.200	1.52	0%	152%	9.91
	Dec	20.66	0.00	19.60	9.200	1.68	0%	152%	9.82
2027	Jan	20.43	0.00	19.60	9.200	1.28	0%	150%	9.65
	Feb	19.73	0.00	19.60	9.200	1.15	0%	155%	10.22
	Mar	19.68	0.00	19.60	9.200	1.38	0%	157%	10.50
	Apr	21.18	0.00	19.60	9.200	1.24	0%	144%	8.86
	May	23.54	0.00	19.60	9.200	1.36	0%	130%	6.62
	Jun	21.10	0.00	19.60	9.200	1.20	0%	145%	8.90
	Jul	22.07	0.00	19.60	9.200	1.45	0%	140%	8.17
	Aug	22.22	0.00	19.60	9.200	1.47	0%	139%	8.06
	Sep	22.37	0.00	19.60	9.200	1.48	0%	138%	7.91
	Oct	22.72	0.00	19.60	9.200	1.78	0%	138%	7.86
	Nov	21.31	0.00	19.60	9.200	1.52	0%	146%	9.01
	Dec	21.63	0.00	19.60	9.200	1.68	0%	144%	8.85
2028	Jan	21.38	0.00	19.60	9.200	1.29	0%	143%	8.71
	Feb	20.50	0.00	19.60	9.200	1.16	0%	149%	9.46
	Mar	20.53	0.00	19.60	9.200	1.38	0%	150%	9.65
	Apr	22.27	0.00	19.60	9.200	1.25	0%	137%	7.78
	May	24.81	0.00	19.60	9.200	1.71	0%	125%	5.69
	Jun	21.96	0.00	19.60	9.200	1.21	0%	139%	8.05
	Jul	23.12	0.00	19.60	9.200	1.45	0%	133%	7.13
	Aug	23.28	0.00	19.60	9.200	1.48	0%	132%	7.00
	Sep	23.43	0.00	19.60	9.200	1.49	0%	131%	6.85
	Oct	23.81	0.00	19.60	9.200	1.79	0%	131%	6.78
	Nov	22.21	0.00	19.60	9.200	1.53	0%	139%	8.12
	Dec	22.60	0.00	19.60	8.000	1.69	0%	132%	6.69
2029	Jan	22.33	0.00	19.60	8.000	1.30	0%	131%	6.57
	Feb	21.26	0.00	19.60	8.000	1.17	0%	137%	7.51
	Mar	21.38	0.00	19.60	8.000	1.39	0%	138%	7.61
	Apr	23.36	0.00	19.60	8.000	1.25	0%	125%	5.49
	May	26.08	0.00	19.60	8.000	2.04	0%	115%	3.56
	Jun	22.81	0.00	19.60	8.000	1.21	0%	128%	6.00
	Jul	24.16	0.00	19.60	8.000	1.46	0%	122%	4.90
	Aug	24.34	0.00	19.60	8.000	1.55	0%	121%	4.81
	Sep	24.49	0.00	19.60	8.000	1.49	0%	120%	4.60
	Oct	24.90	0.00	19.60	8.000	1.80	0%	119%	4.50
	Nov	23.11	0.00	19.60	8.000	1.54	0%	128%	6.03
	Dec	23.57	0.00	19.60	8.000	1.70	0%	126%	5.73
2030	Jan	23.27	0.00	19.60	8.000	1.30	0%	126%	5.63
	Feb	22.02	0.00	19.60	8.000	1.21	0%	133%	6.79
	Mar	22.22	0.00	19.60	8.000	2.12	0%	137%	7.49
	Apr	24.45	0.00	19.60	8.000	1.89	0%	122%	5.04
	May	27.35	0.00	19.60	8.000	2.89	0%	113%	3.14
	Jun	23.67	0.00	19.60	8.000	1.85	0%	127%	5.78
	Jul	25.20	0.00	19.60	8.000	2.14	0%	120%	4.53
	Aug	25.40	0.00	19.60	8.000	2.25	0%	119%	4.45
	Sep	25.55	0.00	19.60	8.000	2.23	0%	118%	4.28
	Oct	25.99	0.00	19.60	8.000	2.56	0%	118%	4.17
	Nov	24.00	0.00	19.60	8.000	1.55	0%	123%	5.14

	Dec	24.54	0.00	19.60	8.000	2.33	0%	124%	5.39
2031	Jan	24.22	0.00	19.60	8.000	1.91	0%	124%	5.29
	Feb	22.77	0.00	19.60	8.000	1.72	0%	131%	6.55
	Mar	23.07	0.00	19.60	8.000	2.79	0%	136%	7.32
	Apr	25.54	0.00	19.60	8.000	2.27	0%	119%	4.33
	May	28.62	0.00	19.60	8.000	3.64	0%	110%	2.61
	Jun	24.51	0.00	19.60	8.000	2.52	0%	126%	5.61
	Jul	26.24	0.00	19.60	8.000	2.89	0%	118%	4.25
	Aug	26.46	0.00	19.60	8.000	3.03	0%	118%	4.17
	Sep	26.61	0.00	19.60	8.000	2.95	0%	117%	3.94
	Oct	27.07	0.00	19.60	8.000	3.39	0%	117%	3.91
	Nov	24.89	0.00	19.60	8.000	1.98	0%	120%	4.68
	Dec	25.50	0.00	19.60	8.000	3.06	0%	123%	5.16
2032	Jan	25.16	0.00	19.60	8.000	2.27	0%	121%	4.71
	Feb	23.53	0.00	19.60	8.000	1.96	0%	128%	6.03
	Mar	23.91	0.00	19.60	8.000	3.65	0%	136%	7.34
	Apr	26.63	0.00	19.60	8.000	3.01	0%	117%	3.98
	May	29.89	0.00	19.60	8.000	4.50	0%	109%	2.20
	Jun	25.36	0.00	19.60	8.000	3.27	0%	125%	5.52
	Jul	27.28	0.00	19.60	8.000	3.71	0%	117%	4.02
	Aug	27.52	0.00	19.60	8.000	3.83	0%	117%	3.91
	Sep	27.66	0.00	19.60	8.000	3.72	0%	115%	3.66
	Oct	28.15	0.00	19.60	8.000	4.22	0%	115%	3.67
	Nov	25.78	0.00	19.60	8.000	2.70	0%	120%	4.52
	Dec	26.46	0.00	19.60	8.000	3.88	0%	122%	5.02
2033	Jan	26.09	0.00	19.60	8.000	2.65	0%	118%	4.15
	Feb	24.27	0.00	19.60	8.000	2.38	0%	126%	5.70
	Mar	24.75	0.00	19.60	8.000	4.14	0%	134%	6.99
	Apr	27.72	0.00	19.60	8.000	3.43	0%	114%	3.31
	May	31.17	0.00	19.60	8.000	5.04	0%	106%	1.47
	Jun	26.20	0.00	19.60	8.000	3.71	0%	123%	5.11
	Jul	28.32	0.00	19.60	8.000	4.18	0%	114%	3.46
	Aug	28.57	0.00	19.60	8.000	4.30	0%	114%	3.33
	Sep	28.71	0.00	19.60	8.000	4.18	0%	113%	3.07
	Oct	29.24	0.00	19.60	8.000	4.73	0%	113%	3.09
	Nov	26.66	0.00	19.60	8.000	3.10	0%	117%	4.03
	Dec	27.42	0.00	19.60	8.000	4.36	0%	120%	4.55
2034	Jan	27.03	0.00	1.60	8.000	2.65	0%	39%	-14.78
	Feb	25.02	0.00	1.60	8.000	2.38	0%	42%	-13.04
	Mar	25.58	0.00	1.60	8.000	4.14	0%	45%	-11.85
	Apr	28.81	0.00	1.60	8.000	3.43	0%	38%	-15.78
	May	32.44	0.00	1.60	8.000	5.04	0%	35%	-17.80
	Jun	27.04	0.00	1.60	8.000	3.71	0%	41%	-13.73
	Jul	29.35	0.00	1.60	8.000	4.18	0%	38%	-15.57
	Aug	29.62	0.00	1.60	8.000	4.30	0%	38%	-15.73
	Sep	29.76	0.00	1.60	8.000	4.18	0%	38%	-15.98
	Oct	30.32	0.00	1.60	8.000	4.73	0%	38%	-15.99
	Nov	27.55	0.00	1.60	8.000	3.10	0%	39%	-14.85
	Dec	28.37	0.00	1.60	8.000	4.36	0%	40%	-14.41



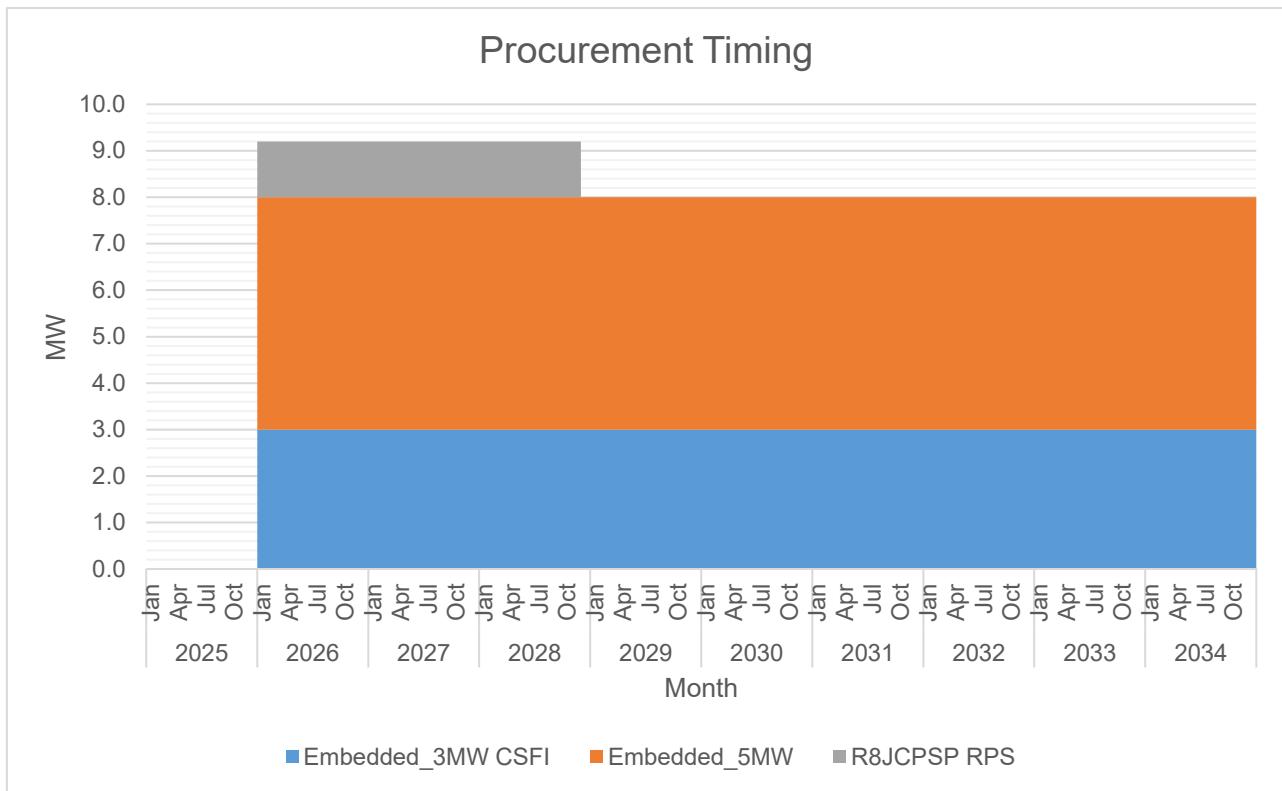
The available supply often falls short of meeting peak demand, primarily due to the termination of a 12 MW baseload contracted demand from GNPower following the Alyansa case. To address this shortfall, an Emergency Power Agreement (EPSA) was negotiated with FDC Misamis Power Corporation (FDCMPC), securing a contract capacity of 12 MW from October 7, 2023, to October 6, 2024. Additionally, a short-term supply of 4 MW, facilitated by FRECOR 8 Joint Competitive Power Supply of Region 8 EC's, is scheduled from December 26, 2023, to December 25, 2026. Looking ahead, a long-term supply of 14 MW, with an additional 4 MW allocated for the year 2032, is anticipated from October 7, 2024.

In line with renewable energy goals, a Renewable Portfolio Standard (RPS) has been set, starting at 1% increment of SAMELCO 1's Total Demand from year 2018 and was increase to 2.52% from year 2024 onwards. The decision to over-contract reflects proactive preparation for the expected arrival of major commercial establishments such as Robinson, Red Iron Hotel, and Samar Island Medical Center, ensuring adequate supply to meet future demands.

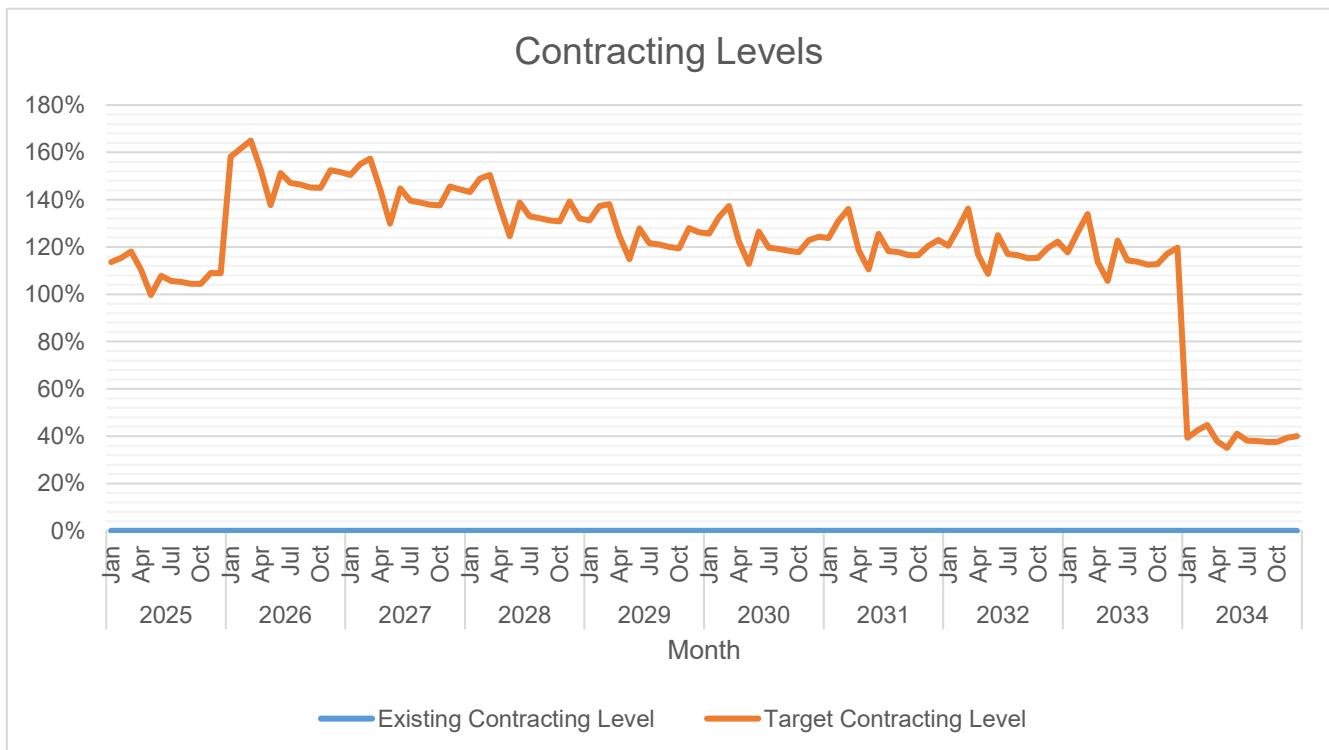


The primary contributor to the available supply is the GNPower Dinginin Coal Power Plant, providing 12 MW under ERC Case No. 2016-050RC from 2019 to 2038. Collaborating with 11 EC's in Region 8, FRECOR 8 has initiated a 5 MW Emergency Power Supply Agreement (EPSA) with Energy Development Corporation (EDC) & KEPCO SPC Power Corporation (KEPCO), effective from August 26, 2022, to August 25, 2023. However, SAMELCO I received a notice from the Energy Regulatory Commission (ERC) on September 13, 2023, terminating a contract due to the Alyansa Case, leading to a shortage of power supply. To address this, SAMELCO I engaged in an Emergency Power Supply Agreement (EPSA) with FDC Misamis Power Corporation, providing a Firm contract capacity of 12MW and Non-Firm of 4MW from October 7, 2023, to October 6, 2024. Additionally, FRECOR 8, in collaboration with R8JCPSP, has organized short-term base load aggregation for 4 MW, along with long-term agreements spanning from 2024 to 2026, incorporating Renewable Portfolio Standard (RPS) requirements from 2025 to 2034.

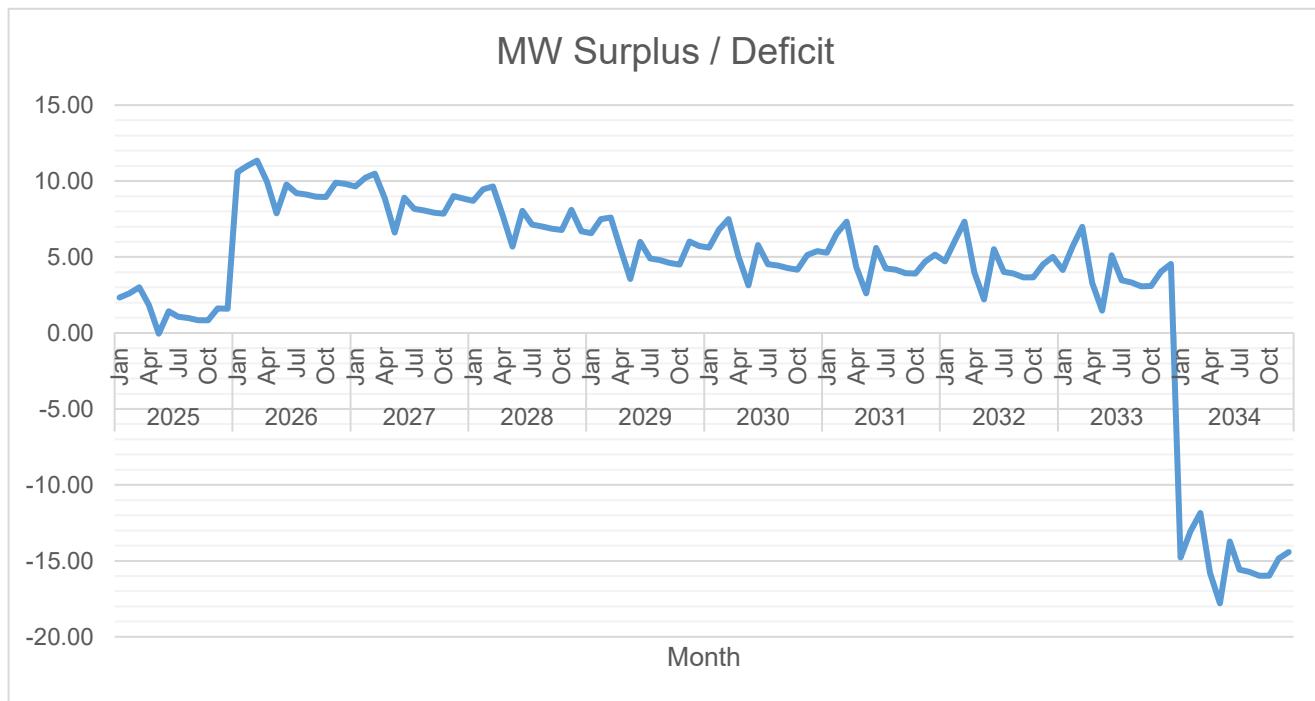
In partnership with the National Electrification Administration (NEA) and the Department of Energy (DOE), SAMELCO I has been selected as a beneficiary of the embedded Rural Network Solar Project, involving a 1 MW Solar Farm. Furthermore, SAMELCO I has entered into a Joint Venture Agreement (JVA) for the development of the 3 MW Calbayog Solar Farm (CFSI).



The first wave of supply procurement was a 12 MW-14 MW R8JCPSP\_Long Term 1 (LT1) from 2024-2033 and 4MW R8JCPSP\_Long Term 2 (LT2) from 2026-2033 including the replacement power with terminated contract with GNPD (ERC Case No. 2016-005 RC). Embedded Ton-ok Mini-hydro Power Plant is on-going rehabilitation with a total capacity of 600kW. SAMELCO I is recipient of embedded Rural Network Solar project of 1 MW. We are also planning for additional renewable solar energy of 3MW embedded with a Joint Venture with Bosung Power Tech.



Currently, there will be under-contracting, if planned contracted level will be realized and there is an additional spot load to be online from year 2027 to 2028. The highest target contracting level is 165% which is expected to occur on March 2026. In year 2034 the under contract will occur since all the Long Term Contract will Expire on this said year.



Currently, there is Over-contacting by 3 MW. The highest surplus is 11.35 MW which is expected to occur on the month of March 2026. The lowest deficit is -17.80 MW which is expected to occur on the month of May 2034.

		<b>MWh Offtake</b>	<b>MWh Output</b>	<b>MWh System Loss</b>	<b>Transm'n Loss</b>	<b>System Loss</b>
2025	Jan	14,886	9,913	660	28.98%	6.24%
	Feb	14,822	9,725	511	30.94%	4.99%
	Mar	13,509	9,550	462	25.88%	4.62%
	Apr	14,855	10,766	365	25.07%	3.28%
	May	14,460	11,556	323	17.84%	2.72%
	Jun	14,827	11,335	773	18.33%	6.38%
	Jul	14,522	10,945	806	19.08%	6.86%
	Aug	15,028	11,545	428	20.33%	3.57%
	Sep	15,030	11,498	296	21.53%	2.51%
	Oct	14,763	11,196	516	20.66%	4.41%
	Nov	15,063	11,333	381	22.23%	3.25%
	Dec	14,692	10,871	602	21.91%	5.24%
2026	Jan	17,048	10,970	696	31.57%	5.97%
	Feb	16,953	10,723	512	33.73%	4.55%
	Mar	15,602	10,605	470	29.02%	4.25%
	Apr	17,017	11,933	345	27.85%	2.81%
	May	16,599	12,809	161	21.86%	1.24%
	Jun	16,988	12,459	886	21.44%	6.64%
	Jul	16,661	12,068	891	22.22%	6.88%

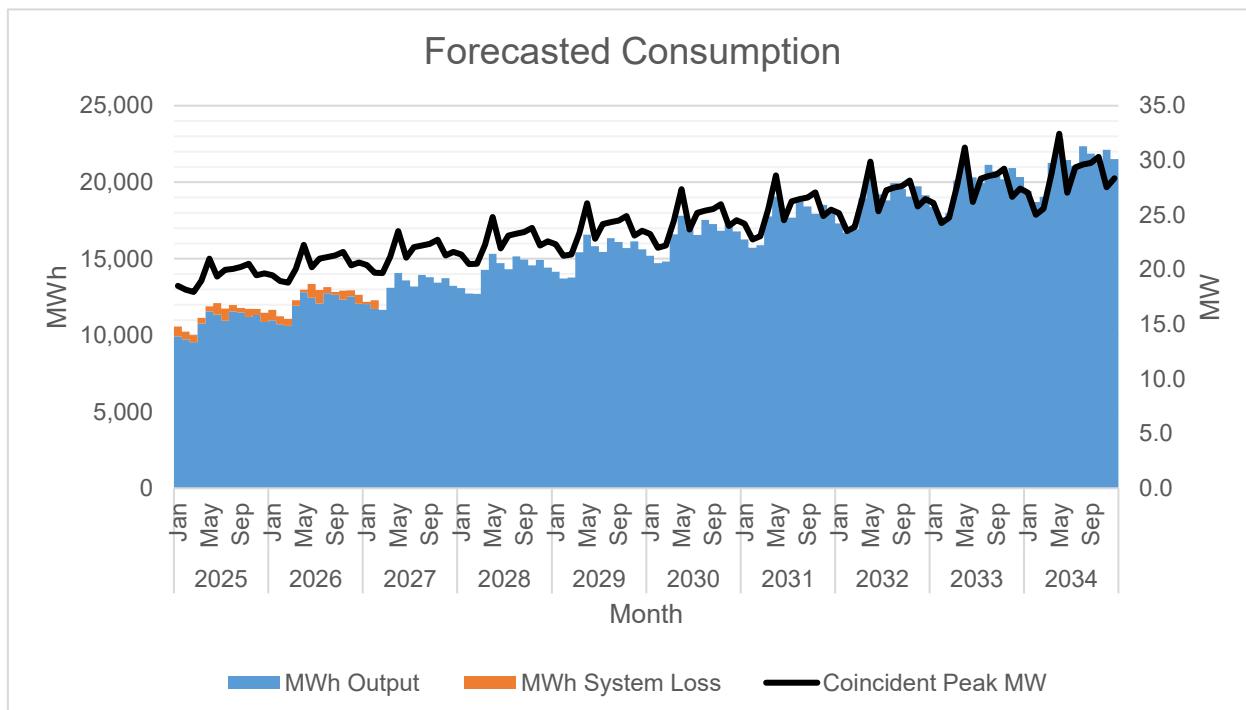
	Aug	17,190	12,745	395	23.56%	3.01%
	Sep	17,193	12,650	183	25.36%	1.43%
	Oct	16,903	12,320	596	23.59%	4.61%
	Nov	17,225	12,532	408	24.88%	3.15%
	Dec	16,847	12,054	588	24.95%	4.65%
2027	Jan	17,053	12,027	480	26.66%	3.84%
	Feb	16,958	11,720	476	28.08%	3.90%
	Mar	15,607	11,659	471	22.28%	3.88%
	Apr	17,022	13,100	466	20.30%	3.44%
	May	16,604	14,062	462	12.53%	3.18%
	Jun	16,993	13,584	457	17.37%	3.26%
	Jul	16,667	13,192	452	18.14%	3.32%
	Aug	17,196	13,945	448	16.31%	3.11%
	Sep	17,199	13,802	443	17.18%	3.11%
	Oct	16,911	13,445	438	17.90%	3.16%
	Nov	17,232	13,732	434	17.80%	3.06%
	Dec	16,854	13,238	429	18.91%	3.14%
2028	Jan	17,058	13,084	424	20.81%	3.14%
	Feb	16,963	12,717	420	22.55%	3.19%
	Mar	15,612	12,713	415	15.91%	3.16%
	Apr	17,028	14,268	410	13.80%	2.79%
	May	16,855	15,315	405	6.73%	2.58%
	Jun	16,998	14,708	401	11.12%	2.65%
	Jul	16,673	14,316	396	11.76%	2.69%
	Aug	17,203	15,144	391	9.69%	2.52%
	Sep	17,205	14,953	387	10.84%	2.52%
	Oct	16,918	14,569	382	11.63%	2.55%
	Nov	17,238	14,931	377	11.20%	2.46%
	Dec	16,860	14,421	373	12.26%	2.52%
2029	Jan	15,616	14,141	368	7.09%	2.54%
	Feb	15,520	13,715	363	9.29%	2.58%
	Mar	14,170	13,768	359	0.31%	2.54%
	Apr	15,585	15,435	354	-1.31%	2.24%
	May	15,649	16,568	349	-8.10%	2.06%
	Jun	15,556	15,832	344	-3.99%	2.13%
	Jul	15,231	15,440	340	-3.60%	2.15%
	Aug	15,806	16,344	335	-5.53%	2.01%
	Sep	15,764	16,105	330	-4.26%	2.01%
	Oct	15,477	15,693	326	-3.50%	2.03%
	Nov	15,797	16,130	321	-4.14%	1.95%
	Dec	15,419	15,604	316	-3.25%	1.99%
2030	Jan	15,622	15,197	312	0.72%	2.01%
	Feb	15,556	14,712	307	3.45%	2.04%
	Mar	14,659	14,822	302	-3.18%	2.00%
	Apr	16,059	16,602	298	-5.24%	1.76%
	May	16,264	17,821	293	-11.37%	1.62%
	Jun	16,029	16,956	288	-7.58%	1.67%
	Jul	15,721	16,564	283	-7.16%	1.68%
	Aug	16,327	17,544	279	-9.16%	1.56%

	Sep	16,309	17,256	274	-7.49%	1.56%
	Oct	16,023	16,817	269	-6.64%	1.58%
	Nov	15,803	17,329	265	-11.33%	1.50%
	Dec	15,873	16,787	260	-7.40%	1.53%
2031	Jan	16,074	16,254	255	-2.71%	1.55%
	Feb	15,934	15,710	251	-0.17%	1.57%
	Mar	15,112	15,877	246	-6.69%	1.53%
	Apr	16,345	17,769	241	-10.19%	1.34%
	May	16,802	19,073	237	-14.93%	1.23%
	Jun	16,530	18,080	232	-10.78%	1.27%
	Jul	16,264	17,687	227	-10.15%	1.27%
	Aug	16,905	18,744	223	-12.19%	1.17%
	Sep	16,846	18,408	218	-10.57%	1.17%
	Oct	16,619	17,942	213	-9.24%	1.17%
	Nov	16,124	18,528	208	-16.20%	1.11%
	Dec	16,398	17,970	204	-10.83%	1.12%
2032	Jan	16,343	17,311	199	-7.14%	1.14%
	Feb	16,110	16,707	194	-4.92%	1.15%
	Mar	15,688	16,931	190	-9.14%	1.11%
	Apr	16,897	18,936	185	-13.17%	0.97%
	May	17,421	20,326	180	-17.71%	0.88%
	Jun	17,091	19,204	176	-13.39%	0.91%
	Jul	16,850	18,811	171	-12.65%	0.90%
	Aug	17,501	19,944	166	-14.91%	0.83%
	Sep	17,422	19,559	162	-13.19%	0.82%
	Oct	17,224	19,066	157	-11.60%	0.82%
	Nov	16,664	19,728	152	-19.30%	0.77%
	Dec	16,990	19,153	147	-13.59%	0.76%
2033	Jan	16,626	18,368	143	-11.34%	0.77%
	Feb	16,423	17,705	138	-8.65%	0.77%
	Mar	16,017	17,986	133	-13.12%	0.74%
	Apr	17,208	20,103	129	-17.57%	0.64%
	May	17,811	21,579	124	-21.85%	0.57%
	Jun	17,414	20,328	119	-17.42%	0.58%
	Jul	17,193	19,935	115	-16.61%	0.57%
	Aug	17,854	21,143	110	-19.04%	0.52%
	Sep	17,765	20,711	105	-17.17%	0.51%
	Oct	17,589	20,190	101	-15.36%	0.50%
	Nov	16,960	20,927	96	-23.96%	0.46%
	Dec	17,340	20,336	91	-17.80%	0.45%
2034	Jan	3,235	19,425	86	-503.16%	0.44%
	Feb	3,031	18,702	82	-519.64%	0.44%
	Mar	3,922	19,040	77	-387.41%	0.40%
	Apr	3,817	21,271	72	-459.22%	0.34%
	May	4,852	22,832	68	-371.98%	0.30%
	Jun	4,023	21,452	63	-434.87%	0.29%
	Jul	4,234	21,059	58	-398.77%	0.28%
	Aug	4,463	22,343	54	-401.85%	0.24%
	Sep	4,374	21,862	49	-400.96%	0.22%

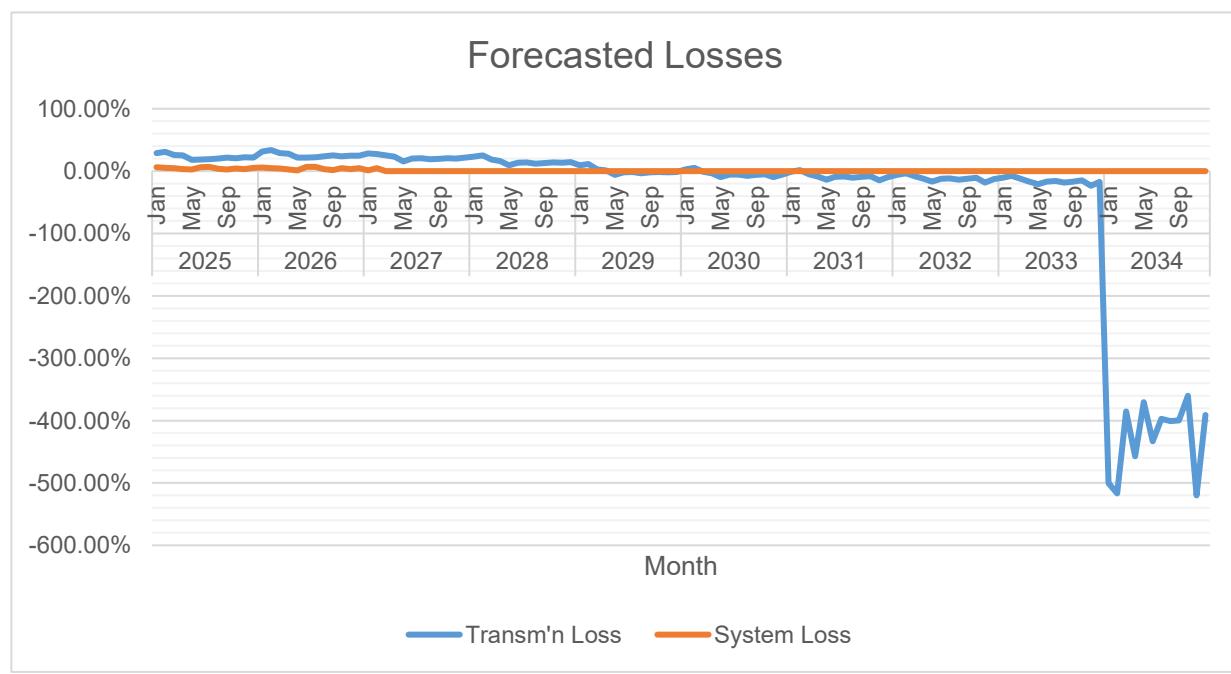
	Oct	4,629	21,314	44	-361.37%	0.21%
	Nov	3,569	22,126	40	-521.12%	0.18%
	Dec	4,381	21,519	35	-392.00%	0.16%

MWh Offtake was forecasted using assumptions based on historical data for the last seven (7) years of operation. The assumed load factor is 60%.

System Loss was calculated through a Load Flow Study conducted on 2019 using DSAS 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 7.87% annually.



Transmission Loss is expected to range from -521.12 % to 33.73% while System Loss is expected to range from 0.16% to 6.88%.

## Power Supply

The Power Purchase and Sale Agreement (PPSA) with GN Power Coal Plant Ltd. was secured through a competitive selection process and filed with the Energy Regulatory Commission (ERC) under Case No. 2016-050RC. It was intended to meet base/intermediate requirements in addition to uncontracted capacity. Historically, the PPSA's utilization rate has ranged from 65% to 100%. However, plant outages resulted in approximately 540 hours of unserved energy per contract year. The monthly charges under the PPSA varied between 4.124 P/kWh to 4.2812 P/kWh. Unfortunately, the agreement between GNPD and SAMELCO was terminated due to the Alyansa Case, with the PSA set to conclude on October 25, 2023.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
Embedded_1MW	Peaking	DU-owned	1.00	1,224	12/26/2024	12/25/2044
Embedded_TMHPP	Intermediate	DU-owned	0.60	2,880	12/26/2024	12/25/2044
2024-145 RC	Base	Therma Luzon, Inc.	7.00	39,858	12/26/2024	12/25/2033
2024-111 RC	Base	KEPCO SPC Power Corporation	4.00	22,776	12/26/2024	12/25/2026
2024-141 RC	Base	Therma Luzon, Inc.	4.00	22,776	12/26/2026	12/25/2033
SPI Long Term	Base	STEAG State Power, Inc.	4.00	22,776	12/26/2024	12/25/2033
KSPC Long Term	Base	KEPCO SPC Power Corporation	3.00	17,082	12/26/2024	12/25/2033

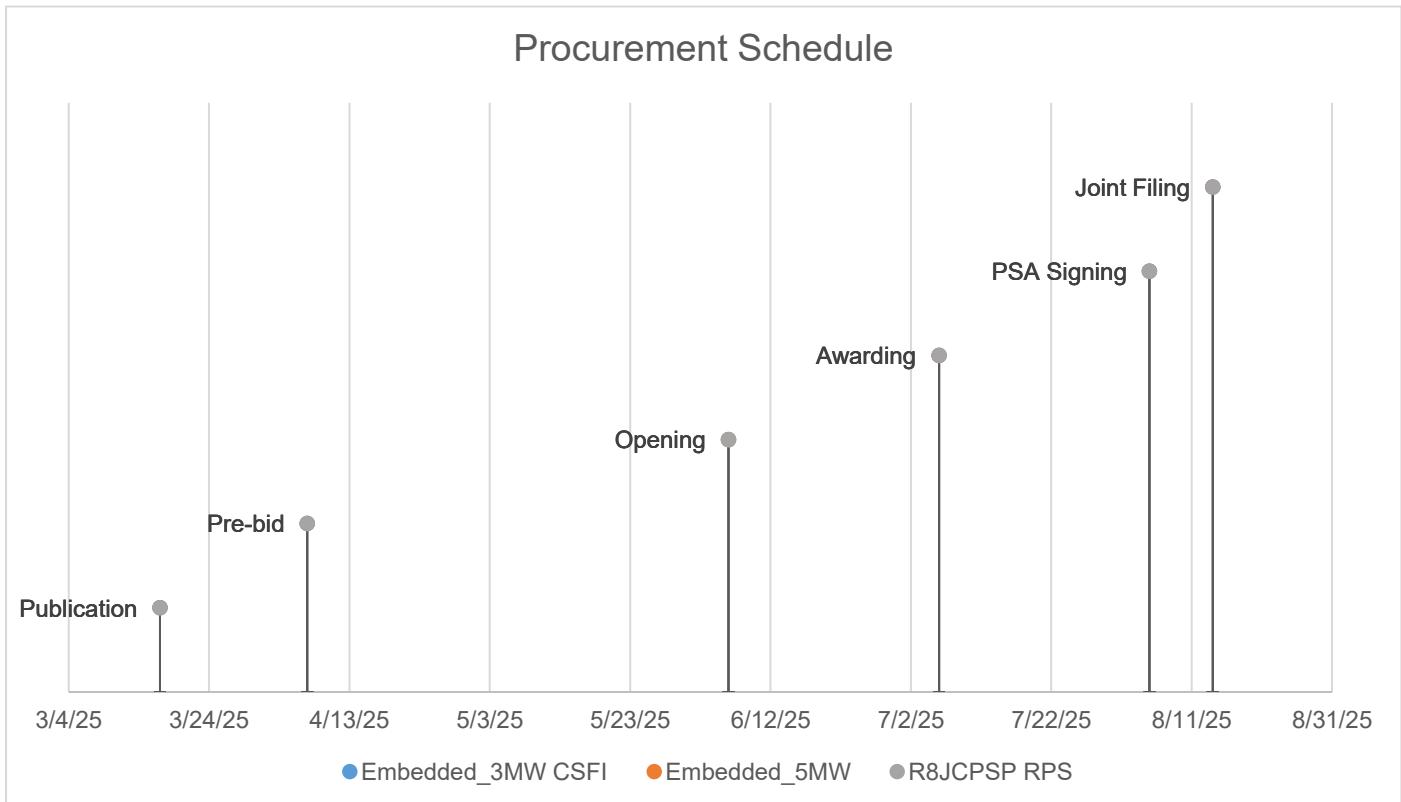
The PSA with 7MW filed with ERC under Case No. 2024-145 RC was procured through CSP. It was selected to provide for base requirements. Historically, the utilization of the PSA is 65% to 100%. The actual billed overall monthly charge under the PSA ranged from 4.8 P/kWh to 5.2 P/KWh in the same period.

The PSA with 4MW filed with ERC under Case No. 2024-111 RC was procured through CSP. It was selected to provide for base requirements. Historically, the utilization of the PSA is 65% to 100%. The actual billed overall monthly charge under the PSA ranged from 6.01 P/kWh to 6.7 P/KWh in the same period.

The PSA with 4MW filed with ERC under Case No. 2024-141 RC was procured through CSP. It was selected to provide for base requirements. Historically, the utilization of the PSA is 65% to 100%. The actual billed overall monthly charge under the PSA ranged from 4.8 P/kWh to 5.2 P/KWh in the same period.

	Embedded_3MW CSFI	Embedded_5MW	R8JCPSP RPS
Type	Intermediate	Intermediate	Peaking
Minimum MW	2.40	4.32	1.20
Minimum MWh/yr	2,938	5,288	1,448
PSA Start	12/26/2025	12/26/2025	12/26/2025
PSA End	12/25/2044	12/25/2044	12/25/2044
Publication	3/17/2025	3/17/2025	3/17/2025

Pre-bid	4/7/2025	4/7/2025	4/7/2025
Opening	6/6/2025	6/6/2025	6/6/2025
Awarding	7/6/2025	7/6/2025	7/6/2025
PSA Signing	8/5/2025	8/5/2025	8/5/2025
Joint Filing	8/14/2025	8/14/2025	8/14/2025

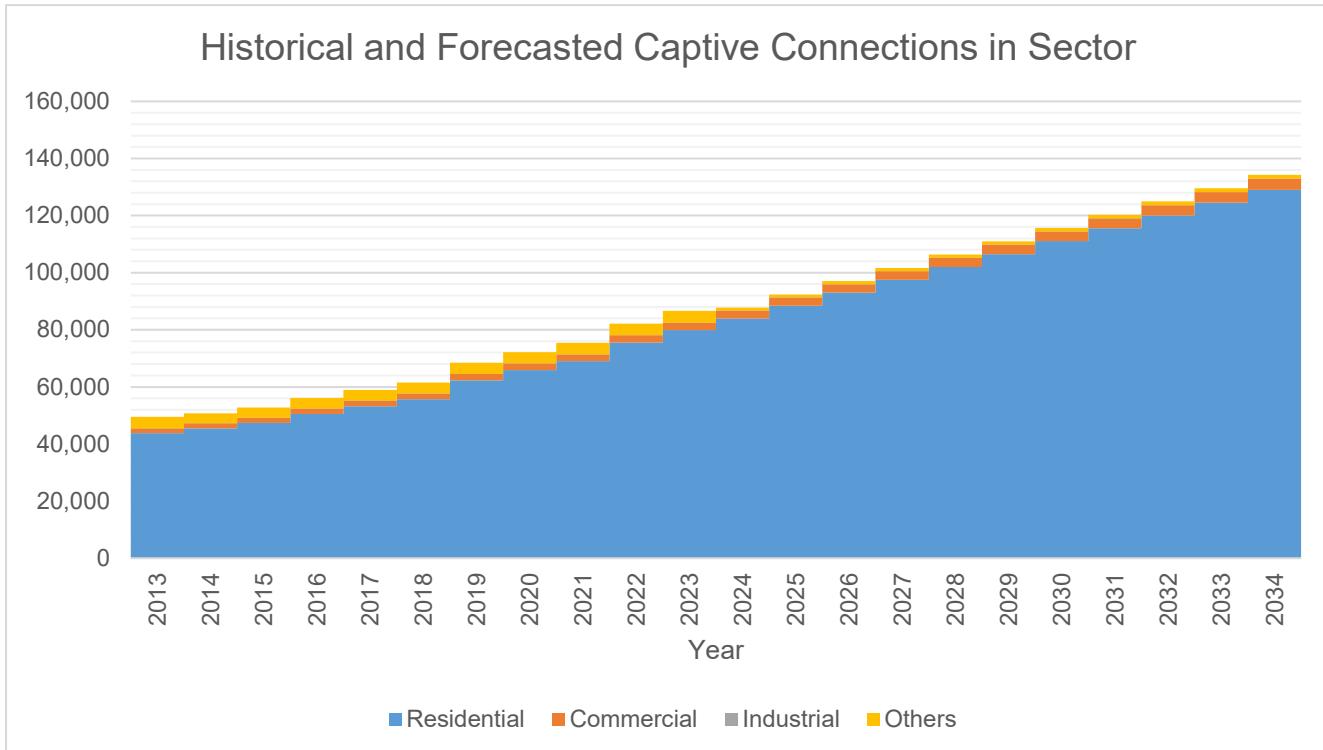


**R8JCPSP RPS 1.2MW** of supply which is planned to be available on December 26, 2025, the first publication or launch of CSP will be on March 17, 2027. Joint filing is planned on August 14, 2025, or 150 days later, in accordance with DOE's 2018 CSP Policy.

**Embedded RE \_5MW** Solar of supply which is planned to be available on December 26, 2025, the first publication or launch of CSP will be on March 17, 2027. Joint filing is planned on August 14, 2025, or 150 days later, in accordance with DOE's 2018 CSP Policy.

**Embedded RE \_3MW Solar** of supply, which is planned to be available on December 26, 2025, the first publication or launch of CSP will be on March 17, 2027. Joint filing is planned on August 14, 2025, or 150 days later, in accordance with DOE's 2018 CSP Policy.

## Captive Customer Connections



The number of Household connections is expected to grow at a rate of 4.27% annually. Said customer class is expected to account for 7% of the total consumption.