# Power Supply Procurement Plan [2024]

[COTABATO ELECTRIC COOPERATIVE, INC]

## **Historical Consumption Data**

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	15.90	67,199	0	67,199	56,282	10,917	48%	0.00%	0.00%	16.25%
2001	16.4233	72,408	0	72,408	60,467	11,941	50%	0.00%	0.00%	16.49%
2002	17.65	80,037	0	80,037	67,072	12,965	52%	0.00%	0.00%	16.20%
2003	18.88	87,666	0	87,666	73,677	13,989	53%	0.00%	0.00%	15.96%
2004	20.11	95,295	0	95,295	80,282	15,013	54%	0.00%	0.00%	15.75%
2005	21.34	102,924	0	102,924	86,887	16,037	55%	0.00%	0.00%	15.58%
2006	22.57	110,553	0	110,553	93,492	17,060	56%	0.00%	0.00%	15.43%
2007	23.80	118,182	0	118,182	100,097	18,084	57%	0.00%	0.00%	15.30%
2008	25.03	125,811	0	125,811	106,702	19,108	57%	0.00%	0.00%	15.19%
2009	26.26	133,440	0	133,440	113,307	20,132	58%	0.00%	0.00%	15.09%
2010	27.49	141,395	0	141,395	120,386	21,010	59%	0.00%	0.00%	14.86%
2011	28.72	149,041	0	149,041	127,008	22,033	59%	0.00%	0.00%	14.78%
2012	30.16	159,694	0	159,694	137,403	22,291	60%	0.00%	0.00%	13.96%
2013	33.80	173,594	0	173,594	151,197	22,397	59%	0.00%	0.00%	12.90%
2014	34.85	175,267	0	175,267	152,913	22,354	57%	0.00%	0.00%	12.75%
2015	35.02	188,008	0	188,008	164,740	23,267	61%	0.00%	0.00%	12.38%
2016	39.37	205,476	0	205,476	185,545	19,931	60%	0.00%	0.00%	9.70%
2017	39.97	213,855	0	213,855	188,299	25,556	61%	0.00%	0.00%	11.95%
2018	44.82	232,911	0	232,911	206,412	26,500	59%	0.00%	0.00%	11.38%
2019	42.59	244,574	0	244,574	219,221	25,354	66%	0.00%	0.00%	10.37%
2020	41.88	242,530	0	242,530	222,287	20,243	66%	0.00%	0.00%	8.35%
2021	43.97	266,405	0	266,405	239,569	26,836	69%	0.00%	0.00%	10.07%
2022	45.37	274,892	0	274,979	248,833	26,146	69%	0.00%	-0.03%	9.51%
2023	50.48	284,212	0	284,212	257,150	27,062	64%	0.00%	0.00%	9.52%

Peak Demand increase from 45.37 MW in 2022 to 50.48 MW in 2023 at a rate of 11.26 % due to increase in customers with big loads. MWh Offtake increase from 274,979 MWh in 2022 to 284,212 MWh in 2023 at a rate of 3.39 % due to increase in customers. Within the same period, Load Factor 64 %. There was no abrupt change in consumption.



MWh Output increase from 2000 to 2023 at an average rate of 6.51%, while MWh System Loss decrease at a rate of 7.09 % within the same period.



Historically, System Loss ranged from 16.49 % to 8.35 %. System Loss peaked at 16.49 % on year 2001 because of over-extended feeder line and substation location is not at load center.



Residential customers account for the bulk of energy sales at 55.68 % due to the high number of connections. In contrast, other customers accounted for only 7.65 % of energy sales due to the low number of connections.



For 2023, the total Offtake for the last historical year is higher than the quantity stipulated in the PSA. The PSA with 2014-121 RC accounts for the bulk of MWh Offtake.



WESM operations in Mindanao commenced in February 2023. From February to December 2023, COTELCO observed an increase in market exposure from 84.97MWh to 5,191.99Mwh, attributed to the optimization strategy implemented by the Distribution Utility (DU) to ensure cost-effective electricity procurement. COTELCO strategically purchases electricity during off-peak periods when prices are low and sells during peak periods or when prices exceed its contracted rate with independent power producers. Additionally, occasional exposure to the market occurs due to emergency outages or scheduled maintenance of contracted power suppliers.

#### **Previous Year's Load Profile**



Based on the Load Duration Curve, the minimum load is 4.60 MW and the maximum load is 50.48 MW for the last historical year.



Peak MW occurred on 14:00 due to high demand. Peak daily MWh occurred on 14:00 due to high demand. As shown in the Load Curves, the available supply is lower than the Peak Demand.



The Non-coincident Peak Demand is 58.26 MW, which is around 64.73 % of the total substation capacity of 90 MVA at a power factor of 98.54. The load factor or the ratio between the Average Load of 34.06 MW and the Non-coincident Peak Demand is 58.46 %. A safe estimate of the true minimum load is the fifth percentile load of 24.34 MW which is 41.78 % of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
M1	10.000	4.208
M2	10.000	5.355
M3	10.000	6.809
M4	10.000	7.248
M5	10.000	7.386
M6	10.000	8.128
M7	5.000	4.816
M8	5.000	4.497
M9	20.000	9.811

The substations loaded at above 70% M4, M5, M6, M7 & M8. This loading problem will be solved by 2024. The new 10 MVA Substation in Tulunan will augment the capacity problem of M5 Substation. About half of its load will be transferred to the new Tulunan Substation once it will be commissioned.

For M4 substation, capacity problem will be address by transferring some of its load to M9 Buragay substation.

For M6 substation, capacity problem will be address by transferring some of its load to M1 Manubuan substation. Loads of M1 substation particularly in Mlang area will be transferred to M5 substation after the commissioning of M10 substation.

For M7 substation, capacity problem will be address by transferring some of its load to M2 Paco substation which will be scheduled to be replace in 2024. Cotelco is also looking for a possible contract of a Solar Power Plant to be put up in Arakan.

For M8 substation, capacity problem will be address by installing a new 5 MVA substation in Banisilan which will be included on the CAPEX 2025-2027. Cotelco is also looking for a possible contract of a Solar Power Plant to be put up in Banisilan.

## **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	47.50	47.50	0.00	0.000		100%	100%	0.00
	Feb	47.65	47.65	0.00	0.000		100%	100%	0.00
	Mar	47.81	47.81	0.00	0.000		100%	100%	0.00
	Apr	47.96	47.96	0.00	0.000		100%	100%	0.00
	May	48.12	48.12	0.00	0.000		100%	100%	0.00
	Jun	48.27	48.27	0.00	0.000		100%	100%	0.00
	Jul	48.43	48.43	0.00	0.000		100%	100%	0.00
	Aug	48.58	48.58	0.00	0.000		100%	100%	0.00
	Sep	48.73	48.73	0.00	0.000		100%	100%	0.00
	Oct	48.89	48.89	0.00	0.000		100%	100%	0.00
	Nov	49.04	49.04	0.00	0.000		100%	100%	0.00
	Dec	49.20	49.20	0.00	0.000		100%	100%	0.00
2025	Jan	49.35	49.35	0.00	0.000		100%	100%	0.00
	Feb	49.51	49.51	0.00	0.000		100%	100%	0.00
	Mar	49.66	46.66	0.00	3.000		94%	100%	0.00
	Apr	49.82	46.82	0.00	3.000		94%	100%	0.00
	May	49.97	46.97	0.00	3.000		94%	100%	0.00
	Jun	50.13	47.13	0.00	3.000		94%	100%	0.00
	Jul	50.28	45.28	0.00	5.000		90%	100%	0.00
	Aug	50.44	45.44	0.00	5.000		90%	100%	0.00
	Sep	50.59	45.59	0.00	5.000		90%	100%	0.00
	Oct	50.74	40.74	0.00	10.000		80%	100%	0.00
	Nov	50.90	40.90	0.00	10.000		80%	100%	0.00
	Dec	51.05	39.05	0.00	12.000		76%	100%	0.00
2026	Jan	51.21	34.21	0.00	17.000		67%	100%	0.00
	Feb	51.36	34.36	0.00	17.000		67%	100%	0.00
	Mar	51.52	34.52	0.00	17.000		67%	100%	0.00
	Apr	51.67	34.67	0.00	17.000		67%	100%	0.00
	May	51.83	34.83	0.00	17.000		67%	100%	0.00

	Jun	51.98	34.98	0.00	17.000	67%	100%	0.00
	Jul	52.14	35.14	0.00	17.000	67%	100%	0.00
	Aug	52.29	35.29	0.00	17.000	67%	100%	0.00
	Sep	52.45	35.45	0.00	17.000	68%	100%	0.00
	Oct	52.60	35.60	0.00	17.000	68%	100%	0.00
	Nov	52.75	35.75	0.00	17.000	68%	100%	0.00
	Dec	52.91	35.91	0.00	17.000	68%	100%	0.00
2027	Jan	53.06	36.06	0.00	17.000	68%	100%	0.00
	Feb	53.22	36.22	0.00	17.000	68%	100%	0.00
	Mar	53.37	36.37	0.00	17.000	68%	100%	0.00
	Apr	53.53	36.53	0.00	17.000	68%	100%	0.00
	May	53.68	36.68	0.00	17.000	68%	100%	0.00
	Jun	53.84	36.84	0.00	17.000	68%	100%	0.00
	Jul	53.99	31.99	0.00	22.000	59%	100%	0.00
	Aug	54.15	32.15	0.00	22.000	59%	100%	0.00
	Sep	54.30	32.30	0.00	22.000	59%	100%	0.00
	Oct	54.46	32.46	0.00	22.000	60%	100%	0.00
	Nov	54.61	32.61	0.00	22.000	60%	100%	0.00
	Dec	54.76	32.76	0.00	22.000	60%	100%	0.00
2028	Jan	54.92	32.92	0.00	22.000	60%	100%	0.00
	Feb	55.07	33.07	0.00	22.000	60%	100%	0.00
	Mar	55.23	33.23	0.00	22.000	60%	100%	0.00
	Apr	55.38	33.38	0.00	22.000	60%	100%	0.00
	May	55.54	33.54	0.00	22.000	60%	100%	0.00
	Jun	55.69	33.69	0.00	22.000	60%	100%	0.00
	Jul	55.85	33.85	0.00	22.000	61%	100%	0.00
	Aug	56.00	34.00	0.00	22.000	61%	100%	0.00
	Sep	56.16	34.16	0.00	22.000	61%	100%	0.00
	Oct	56.31	34.31	0.00	22.000	61%	100%	0.00
	Nov	56.47	34.47	0.00	22.000	61%	100%	0.00
	Dec	56.62	34.62	0.00	22.000	61%	100%	0.00
2029	Jan	56.77	34.77	0.00	22.000	61%	100%	0.00
	Feb	56.93	34.93	0.00	22.000	61%	100%	0.00
	Mar	57.08	35.08	0.00	22.000	61%	100%	0.00
	Apr	57.24	35.24	0.00	22.000	62%	100%	0.00

	May	57.39	35.39	0.00	22.000	62%	100%	0.00
	Jun	57.55	35.55	0.00	22.000	62%	100%	0.00
	Jul	57.70	35.70	0.00	22.000	62%	100%	0.00
	Aug	57.86	35.86	0.00	22.000	62%	100%	0.00
	Sep	58.01	36.01	0.00	22.000	62%	100%	0.00
	Oct	58.17	36.17	0.00	22.000	62%	100%	0.00
	Nov	58.32	36.32	0.00	22.000	62%	100%	0.00
	Dec	58.48	36.48	0.00	22.000	62%	100%	0.00
2030	Jan	58.63	36.63	0.00	22.000	62%	100%	0.00
	Feb	58.78	36.78	0.00	22.000	63%	100%	0.00
	Mar	58.94	36.94	0.00	22.000	63%	100%	0.00
	Apr	59.09	37.09	0.00	22.000	63%	100%	0.00
	May	59.25	37.25	0.00	22.000	63%	100%	0.00
	Jun	59.40	37.40	0.00	22.000	63%	100%	0.00
	Jul	59.56	37.56	0.00	22.000	63%	100%	0.00
	Aug	59.71	37.71	0.00	22.000	63%	100%	0.00
	Sep	59.87	37.87	0.00	22.000	63%	100%	0.00
	Oct	60.02	38.02	0.00	22.000	63%	100%	0.00
	Nov	60.18	38.18	0.00	22.000	63%	100%	0.00
	Dec	60.33	38.33	0.00	22.000	64%	100%	0.00
2031	Jan	60.49	38.49	0.00	22.000	64%	100%	0.00
	Feb	60.64	38.64	0.00	22.000	64%	100%	0.00
	Mar	60.80	38.80	0.00	22.000	64%	100%	0.00
	Apr	60.95	38.95	0.00	22.000	64%	100%	0.00
	May	61.10	39.10	0.00	22.000	64%	100%	0.00
	Jun	61.26	39.26	0.00	22.000	64%	100%	0.00
	Jul	61.41	39.41	0.00	22.000	64%	100%	0.00
	Aug	61.57	39.57	0.00	22.000	64%	100%	0.00
	Sep	61.72	34.72	0.00	27.000	56%	100%	0.00
	Oct	61.88	34.88	0.00	27.000	56%	100%	0.00
	Nov	62.03	35.03	0.00	27.000	56%	100%	0.00
	Dec	62.19	35.19	0.00	27.000	57%	100%	0.00
2032	Jan	62.34	35.34	0.00	27.000	57%	100%	0.00
	Feb	62.50	35.50	0.00	27.000	57%	100%	0.00
	Mar	62.65	35.65	0.00	27.000	57%	100%	0.00

	Apr	62.81	35.81	0.00	27.000	57%	100%	0.00
	May	62.96	35.96	0.00	27.000	57%	100%	0.00
	Jun	63.11	36.11	0.00	27.000	57%	100%	0.00
	Jul	63.27	36.27	0.00	27.000	57%	100%	0.00
	Aug	63.42	36.42	0.00	27.000	57%	100%	0.00
	Sep	63.58	36.58	0.00	27.000	58%	100%	0.00
	Oct	63.73	36.73	0.00	27.000	58%	100%	0.00
	Nov	63.89	36.89	0.00	27.000	58%	100%	0.00
	Dec	64.04	37.04	0.00	27.000	58%	100%	0.00
2033	Jan	64.20	37.20	0.00	27.000	58%	100%	0.00
	Feb	64.35	37.35	0.00	27.000	58%	100%	0.00
	Mar	64.51	37.51	0.00	27.000	58%	100%	0.00
	Apr	64.66	37.66	0.00	27.000	58%	100%	0.00
	May	64.82	37.82	0.00	27.000	58%	100%	0.00
	Jun	64.97	37.97	0.00	27.000	58%	100%	0.00
	Jul	65.12	38.12	0.00	27.000	59%	100%	0.00
	Aug	65.28	38.28	0.00	27.000	59%	100%	0.00
	Sep	65.43	38.43	0.00	27.000	59%	100%	0.00
	Oct	65.59	38.59	0.00	27.000	59%	100%	0.00
	Nov	65.74	38.74	0.00	27.000	59%	100%	0.00
	Dec	65.90	38.90	0.00	27.000	59%	100%	0.00

The Peak Demand was forecasted using trending method and was assumed to occur on the month of September to December. Monthly Peak Demand is at its lowest on the month of June due to August. In general, Peak Demand is expected to grow at a rate of 2.23% annually.



The available supply is generally below the Peak Demand. This is to avoid cost due to over contracting of capacity.



Of the available supply, the largest is 10 MW from 2014-121 RC, 2016-065 RC and 2013-036 RC. This is followed by 5 MW from 2015-045 RC and 2014-011 RC.

The first wave of supply procurement will be for 7 MW planned to be available by the month of January 2026. This will be followed by 5 MW in July 2027.





Currently, there is enough contracted capacity. There is no highest or lowest target contracting level as deficit will be drawn from WESM.



Currently, there is no under-contacting/over-contracting. The highest deficit is 3 MW which is expected to occur on the month of January 2024. The lowest deficit is 3 MW which is expected to occur on the month of March 2024.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	21,126	18,822	2,304	0.00%	10.91%
	Feb	20,946	18,742	2,204	0.00%	10.52%
	Mar	20,525	18,407	2,119	0.00%	10.32%
	Apr	22,783	20,433	2,350	0.00%	10.32%
	May	22,769	20,364	2,405	0.00%	10.56%
	Jun	22,131	19,842	2,289	0.00%	10.34%
	Jul	20,545	18,423	2,123	0.00%	10.33%
	Aug	21,818	19,618	2,200	0.00%	10.08%
	Sep	22,667	20,327	2,339	0.00%	10.32%
	Oct	22,457	20,150	2,307	0.00%	10.27%
	Nov	22,309	20,349	1,960	0.00%	8.79%
	Dec	22,607	20,543	2,063	0.00%	9.13%
2025	Jan	22,730	20,365	2,364	0.00%	10.40%
	Feb	22,819	20,558	2,261	0.00%	9.91%
	Mar	22,467	20,293	2,174	0.00%	9.67%
	Apr	23,661	21,250	2,411	0.00%	10.19%
	May	22,491	20,024	2,467	0.00%	10.97%
	Jun	22,794	20,446	2,348	0.00%	10.30%
	Jul	22,279	20,101	2,178	0.00%	9.78%
	Aug	22,812	20,555	2,257	0.00%	9.90%
	Sep	24,657	22,257	2,400	0.00%	9.73%
	Oct	23,890	21,523	2,367	0.00%	9.91%
	Nov	23,716	21,705	2,011	0.00%	8.48%

	Dec	23,998	21,881	2,117	0.00%	8.82%
2026	Jan	24,040	21,614	2,426	0.00%	10.09%
	Feb	24,130	21,810	2,320	0.00%	9.61%
	Mar	23,766	21,536	2,230	0.00%	9.38%
	Apr	24.989	22,515	2,474	0.00%	9.90%
	May	23,483	21,255	2,228	0.00%	9.49%
	Jun	23.726	21.686	2.039	0.00%	8.60%
	Jul	23.255	21.330	1.925	0.00%	8.28%
	Aua	23.877	21.794	2.084	0.00%	8.73%
	Sep	25.704	23.538	2.166	0.00%	8.43%
	Oct	24.896	22.782	2.114	0.00%	8.49%
	Nov	24.794	22.967	1.828	0.00%	7.37%
	Dec	25.317	23.145	2.172	0.00%	8.58%
2027	Jan	25.359	22,870	2,489	0.00%	9.81%
	Feb	25.449	23.069	2.380	0.00%	9.35%
	Mar	25.073	22,785	2.288	0.00%	9.13%
	Apr	26.326	23.788	2.538	0.00%	9.64%
	May	25.090	22.493	2.597	0.00%	10.35%
	Jun	25.405	22.933	2.472	0.00%	9.73%
	Jul	24.858	22,565	2.293	0.00%	9.22%
	Aug	25.415	23.039	2,376	0.00%	9.35%
	Sep	27,353	24,826	2,527	0.00%	9.24%
	Oct	26,540	24 049	2 492	0.00%	9.39%
	Nov	26,353	24,236	2,117	0.00%	8.03%
	Dec	26,645	24,417	2,228	0.00%	8.36%
2028	Jan	26.686	24.132	2,554	0.00%	9.57%
	Feb	26,776	24,334	2,442	0.00%	9.12%
	Mar	26,388	24.041	2,348	0.00%	8.90%
	Apr	27.672	25.067	2,604	0.00%	9.41%
	Mav	26.401	23.737	2.665	0.00%	10.09%
	Jun	26.722	24.186	2.536	0.00%	9.49%
	Jul	26.159	23.807	2.352	0.00%	8.99%
	Aug	26.729	24.290	2.438	0.00%	9.12%
	Sep	28.714	26.122	2.592	0.00%	9.03%
	Oct	27.879	25.322	2.556	0.00%	9.17%
	Nov	27.684	25.512	2.172	0.00%	7.85%
	Dec	27.982	25.696	2.286	0.00%	8.17%
2029	Jan	28.021	25.401	2.620	0.00%	9.35%
	Feb	28.112	25.606	2.505	0.00%	8.91%
	Mar	27,712	25,303	2,409	0.00%	8.69%
	Apr	29.027	26.355	2.672	0.00%	9.21%
	May	27,721	24,987	2,734	0.00%	9.86%
	Jun	28.048	25.446	2.602	0.00%	9.28%
	Jul	27.468	25.055	2.413	0.00%	8.79%
	Aug	28,050	25,549	2,502	0.00%	8.92%
	Sep	30,085	27,426	2,660	0.00%	8.84%
	Oct	29,226	26.603	2.623	0.00%	8.97%
	Nov	29.024	26.796	2,229	0.00%	7.68%
	Dec	29,328	26,982	2,346	0.00%	8.00%
2030	Jan	29,366	26,678	2,688	0.00%	9.15%
	Feb	29,456	26,886	2,571	0.00%	8.73%

	Mar	29,044	26,573	2,471	0.00%	8.51%
	Apr	30,391	27,649	2,742	0.00%	9.02%
	May	29,049	26,244	2,805	0.00%	9.66%
	Jun	29,382	26,712	2,670	0.00%	9.09%
	Jul	28,785	26,309	2,476	0.00%	8.60%
	Aug	29,380	26,814	2,567	0.00%	8.74%
	Sep	31,466	28,737	2,729	0.00%	8.67%
	Oct	30,582	27,891	2,691	0.00%	8.80%
	Nov	30,373	28,087	2,287	0.00%	7.53%
	Dec	30,682	28,275	2,407	0.00%	7.84%
2031	Jan	30,719	27,961	2,758	0.00%	8.98%
	Feb	30,810	28,172	2,637	0.00%	8.56%
	Mar	30,385	27,849	2,536	0.00%	8.34%
	Apr	31,764	28,951	2,813	0.00%	8.86%
	May	30,385	27,507	2,878	0.00%	9.47%
	Jun	30,725	27,986	2,739	0.00%	8.92%
	Jul	30,110	27,570	2,540	0.00%	8.44%
	Aug	30,719	28,086	2,633	0.00%	8.57%
	Sep	32,857	30,057	2,800	0.00%	8.52%
	Oct	31,948	29,187	2,761	0.00%	8.64%
	Nov	31,731	29,385	2,346	0.00%	7.39%
	Dec	32,046	29,577	2,469	0.00%	7.71%
2032	Jan	32,082	29,252	2,830	0.00%	8.82%
	Feb	32,173	29,467	2,706	0.00%	8.41%
	Mar	31,734	29,133	2,601	0.00%	8.20%
	Apr	33,148	30,262	2,886	0.00%	8.71%
	May	31,731	28,778	2,953	0.00%	9.31%
	Jun	32,078	29,267	2,811	0.00%	8.76%
	Jul	31,444	28,838	2,606	0.00%	8.29%
	Aug	32,067	29,365	2,702	0.00%	8.43%
	Sep	34,258	31,385	2,873	0.00%	8.39%
	Oct	33,323	30,490	2,833	0.00%	8.50%
	Nov	33,099	30,692	2,407	0.00%	7.27%
	Dec	33,420	30,886	2,534	0.00%	7.58%
2033	Jan	33,458	30,851	2,607	0.00%	7.79%
	Feb	33,598	31,010	2,588	0.00%	7.70%
	Mar	33,738	31,169	2,569	0.00%	7.62%
	Apr	33,878	31,327	2,551	0.00%	7.53%
	May	34,018	31,486	2,532	0.00%	7.44%
	Jun	34,158	31,645	2,513	0.00%	7.36%
	Jul	34,299	31,804	2,494	0.00%	7.27%
	Aug	34,439	31,963	2,476	0.00%	7.19%
	Sep	34,579	32,122	2,457	0.00%	7.11%
	Oct	34,719	32,281	2,438	0.00%	7.02%
	Nov	34,859	32,440	2,420	0.00%	6.94%
	Dec	35,000	32,599	2,401	0.00%	6.86%

MWh Offtake was forecasted using trending method. The assumed load factor is 65%.

System Loss was calculated through a Load Flow Study conducted on monthly basis by the System Engineer 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 3.87 annually.



System Loss is expected to range from 6.86% to 10.97%.

### **Power Supply**

Case No.	Туре	GenCo	Maximum MW	Minimum MW	Maximum MWh/yr	Minimum MWh/yr	PSA Start	PSA End
2014-121-RC	Base	Sarangani Energy Corporation	10	4.00	87,591.6	35,040	10/10/2019	10/9/2044
2013-036-RC	Base	Therma South, Inc.	10	4.00	76,800	35,040	9/18/2015	9/17/2040
2015-048-RC	Base	FDC Misamis Power Corporation	5	2.00	39,420	17,520	8/26/2016	8/25/2031
2014-011-RC	Base	GN Power Kauswagan Ltd.	5	2.00	37,680	28,251	6/26/2019	6/25/2039
2017-067-RC	Intermediate	Power Sector Assets and Liabilities Management Corporation	10	10.00	47,440.80	47,440.80	12/26/2022	12/25/2025

The PSA with Sarangani Energy Corporation filed with ERC under Case No. 2014-121 RC was procured through Bilateral Power Supply Agreement (PSA). It was selected to provide for base requirements due to its economic viability to provide continuous power supply. Historically, the utilization of the PSA is 71%. Outages of the plant led to unserved energy of around 0 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 5.85 P/kWh to 13.28 P/KWh in the same period.

The PSA with Therma South, Inc. filed with ERC under Case No. 2013-036 RC was procured through Bilateral Power Supply Agreement (PSA). It was selected to provide for base requirements due to its economic viability to provide continuous power supply. Historically, the utilization of the PSA is 66%. Outages of the plant led to unserved energy of around 0 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 6.87 P/kWh to 11.87 P/KWh in the same period.

The PSA with FDC Misamis Power Corporation filed with ERC under Case No. 2013-048 RC was procured through Bilateral Power Supply Agreement (PSA). It was selected to provide for base requirements due to its economic viability to provide continuous power supply. Historically, the utilization of the PSA is 88%. Outages of the plant led to unserved energy of around 0 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 5.66 P/kWh to 9.44 P/KWh in the same period.

The PSA with GN Power Kauswagan, Ltd filed with ERC under Case No. 2013-011 RC was procured through Bilateral Power Supply Agreement (PSA). It was selected to provide for base requirements due to its economic viability to provide continuous power supply. Historically, the utilization of the PSA is 79%. Outages of the plant led to unserved energy of around 0 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 4.15 P/kWh to 6.28 P/KWh in the same period.

The PSA with SMCPC filed with ERC under Case No. 2016-065 RC was procured through Bilateral Power Supply Agreement. It was selected to provide for base requirements same with other IPPs. However, COTELCO has been instructed by the Energy Regulatory Commission (ERC) to immediately terminate the power supply contract that was previously established between COTELCO and SMCPC thru its Order dated March 1, 2023, which we received last April 5, 2023. With ERC's order, COTELCO is compelled to cease nominating its power requirement with SMCPC as well as its payment of the monthly billing starting April 12, 2023.

The PSA with PSALM, filed under Case No. 2017-067 RC, was procured through the Contract for the Supply of Electric Energy (CSEE), which was renewed in 2022 for a contract duration of 2022-2025. The renewal also included an increase in contract capacity and energy to compensate for the increasing demand of the cooperative. This allocation from PSALM is typically used for the intermediate and peaking requirements of the distribution utility.

Under the CSEE, the minimum allocation from PSALM is still based on the contracted demand and maximum energy. However, this allocation remains dependent on the plants' capacity to generate power. The allocation will match the contract energy and demand if the plants have sufficient power supply but will be reduced if the plants are derated due to the summer season or plant outages.

The data for annual maximum energy for other IPPs are based on contract demand incorporating the annual plant outages.

Case No.	Туре	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2021-107 RC	Intermediate	Power Sector Assets and Liabilities Management Corporation	15.00	60,634	12/26/2025	12/25/2030

The PSA with PSALM, filed under Case No. 2021-107 RC, was procured through the Contract for the Supply of Electric Energy (CSEE), which was renewed in 2022 for a contract duration of 2022-2025. The renewal also includes an increase in contract capacity and energy to compensate for the cooperative's increasing demand. This allocation from PSALM is typically used for the intermediate and peaking requirements of the distribution utility. Moreover, COTELCO has already processed its CSEE renewal with PSALM for up to 2030 and can still be extended depending on PSALM's administration of the Agus-Pulangi complex, to ensure a competitive electricity rate, given its low price and CSP exemption.

	CSP 1	CSP 2	CSP 3	CSP 4	CSP 5	CSP 6	CSP 7
Туре	Base	Peaking	Base	Peaking	Peaking	Base	Base
Minimum MW	3.00	2.00	5.00	2.00	5.00	5.00	5.00
Minimum MWh/yr	23,040	8,040	13,824	8,040	5,360	10,752	10,752
PSA Start	03/26/2025	07/26/2025	10/26/2025	12/26/2025	01/26/2026	07/26/2028	09/26/2031
PSA End	03/25/2040	07/25/2040	10/25/2040	12/25/2040	01/25/2036	07/25/2043	09/25/2046
Publication	10/01/2024	01/01/2025	04/01/2025	06/01/2025	07/01/2025	01/01/2028	03/01/2031
Pre-bid	31/01/2024	22/01/2025	25/01/2025	27/01/2025	28/01/2025	22/01/2028	24/01/2031
Opening	31/03/2024	23/03/2025	26/03/2025	28/03/2025	29/03/2025	22/03/2028	25/03/2031
Awarding	30/04/2024	22/04/2025	25/04/2025	27/04/2025	28/04/2025	21/04/2028	24/04/2031
PSA Signing	30/05/2024	22/05/2025	25/05/2025	27/05/2025	28/05/2025	21/05/2028	24/05/2031
Joint Filing	08/06/2024	31/05/2025	03/06/2025	05/06/2025	06/06/2025	30/05/2028	02/06/2031



For the procurement of 3 MW CSP 1 of supply which is planned to be available on March 26, 2025, the first publication or launch of CSP will be on October 1, 2024. Joint filing is planned on February 28, 2025, or 150 days later, in accordance with DOE's 2023 CSP Policy.

For the procurement of 2 MW CSP 2 of supply which is planned to be available on July 26, 2025, the first publication or launch of CSP will be on January 1, 2025. Joint filing is planned on May 31, 2025, or 150 days later, in accordance with DOE's 2023 CSP Policy.

For the procurement of 5.0 MW CSP 3 of supply which is planned to be available on October 26, 2025, the first publication or launch of CSP will be on April 1, 2024. Joint filing is planned on June 3, 2025, or 150 days later, in accordance with DOE's 2023 CSP Policy.

For the procurement of 2 MW CSP 4 of supply which is planned to be available on December 26, 2025, the first publication or launch of CSP will be on June 1, 2025. Joint filing is planned on June 5, 2025, or 150 days later, in accordance with DOE's 2023 CSP Policy.

For the procurement of 5 MW CSP 5 of supply which is planned to be available on January 26, 2026, the first publication or launch of CSP will be on July 1, 2025. Joint filing is planned on June 6, 2025, or 150 days later, in accordance with DOE's 2023 CSP Policy.

For the procurement of 5 MW CSP 6 of supply which is planned to be available on July 26, 2028, the first publication or launch of CSP will be on January 1, 2028. Joint filing is planned on May 30, 2028, or 150 days later, in accordance with DOE's 2023 CSP Policy.

For the procurement of 5.0 MW CSP 7 of supply which is planned to be available on September 26, 2031, the first publication or launch of CSP will be on March 1, 2031. Joint filing is planned on June 2, 2031, or 150 days later, in accordance with DOE's 2023 CSP Policy.



### **Captive Customer Connections**

The number of Residential connections is expected to grow at a rate of 5.52% annually. Said customer class is expected to account for 48.87% of the total consumption.

The number of Commercial connections is expected to grow at a rate of 5.52% annually. Said customer class is expected to account for 19.67% of the total consumption.

The number of Industrial connections is expected to grow at a rate of 5.52% annually. Said customer class is expected to account for 21.65% of the total consumption.

The number of other connections is expected to grow at a rate of 5.10% annually. Said customer class is expected to account for 9.80% of the total consumption