Power Supply Procurement Plan 2025

Quezon I 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	20.28	89,709	0	89,709	78,666	11,044	50%	0.00%	0.00%	12.31%
2001	21.54	95,740	0	95,740	83,094	12,646	51%	0.00%	0.00%	13.21%
2002	22.87	97,805	0	97,805	85,787	12,018	49%	0.00%	0.00%	12.29%
2003	23.19	109,648	0	109,648	94,017	15,631	54%	0.00%	0.00%	14.26%
2004	25.21	114,716	0	114,716	98,300	16,416	52%	0.00%	0.00%	14.31%
2005	21.30	113,047	0	113,047	94,547	18,500	61%	0.00%	0.00%	16.36%
2006	21.93	101,478	0	101,478	82,759	18,719	53%	0.00%	0.00%	18.45%
2007	22.20	106,900	0	106,900	86,208	20,693	55%	0.00%	0.00%	19.36%
2008	21.95	111,848	0	111,848	89,919	21,929	58%	0.00%	0.00%	19.61%
2009	23.57	118,791	0	118,791	98,027	20,764	58%	0.00%	0.00%	17.48%
2010	26.94	134,875	0	134,875	112,261	22,614	57%	0.00%	0.00%	16.77%
2011	26.21	133,063	0	133,063	109,416	23,647	58%	0.00%	0.00%	17.77%
2012	26.80	144,479	26,802	144,479	119,574	24,905	62%	0.00%	0.00%	17.24%
2013	31.83	154,795	34,145	154,795	127,098	27,697	56%	0.00%	0.00%	17.89%
2014	30.11	142,575	26,562	142,575	117,806	24,769	54%	0.00%	0.00%	17.37%
2015	29.12	160,710	33,086	160,710	132,498	28,212	63%	0.00%	0.00%	17.55%
2016	32.99	183,377	51,748	183,377	149,340	34,037	63%	0.00%	0.00%	18.56%
2017	35.27	193,308	28,628	193,308	159,225	34,084	63%	0.00%	0.00%	17.63%
2018	36.10	207,093	35,934	207,093	170,383	36,710	65%	0.00%	0.00%	17.73%
2019	38.49	216,119	49,882	216,119	179,293	36,825	64%	0.00%	0.00%	17.04%
2020	39.89	222,022	65,679	222,022	186,307	35,715	64%	0.00%	0.00%	16.09%
2021	41.32	238,271	77,353	238,271	205,430	32,841	66%	0.00%	0.00%	13.78%
2022	41.02	246,137	87,030	246,137	214,297	31,840	68%	0.00%	0.00%	12.94%
2023	43.45	258,206	73,596	255,213	227,759	27,454	67%	0.00%	1.16%	10.76%
2024	46.88	291,487	90,655	288,667	253,164	35,504	70%	0.00%	0.97%	12.30%

Peak Demand **increased** from **43.45 MW** in **2023** to **46.88 MW** in **2024** at a rate of **7.87%** due to the **growing number of customers**, either Residential, Commercial, Industrial and Others. MWh Offtake **increased** from **258,206 MWh** in **2023** to **291,487 MWh** in **2024** at a rate of **12.84%** due to **continuous usage of electricity**. Within the same period, Load Factor ranged from **67%** to **70%**. There was an abrupt change in consumption on **2014** due to the effect of **typhoon Glenda** that hit the coop on July 2014

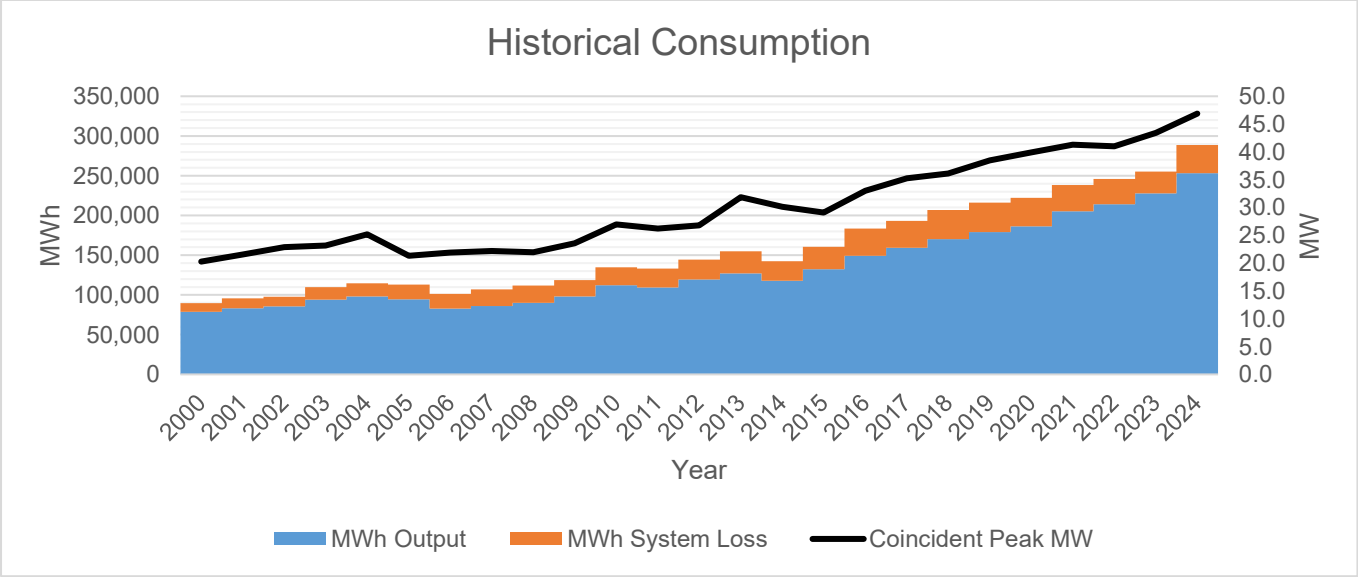
Primary Reasons for Negative Non-technical losses (NTL):

1. **Retroactive Meter Reading Corrections and Adjustments**
    - In rural ECs like QUEZELCO I, meter reading cycles in remote barangays often experience delays due to **weather, accessibility,** or **manpower constraints**. When delayed readings are eventually captured (sometimes spanning multiple billing cycles), the cooperative applies **retroactive billings** or **kWh adjustments**.
    - If under-readings or estimated consumptions from prior months are corrected upward, this results in additional billed energy being recognized in the current month. This **increases reported sales/output** relative to the fixed energy input/purchased for that month, mathematically manifesting as a **negative NTL** (i.e., apparent "recovery" exceeding the baseline unaccounted energy).
    - This is a common reconciliation practice in Philippine ECs and does **not** reflect actual negative loss but rather correction of prior under-accounting.

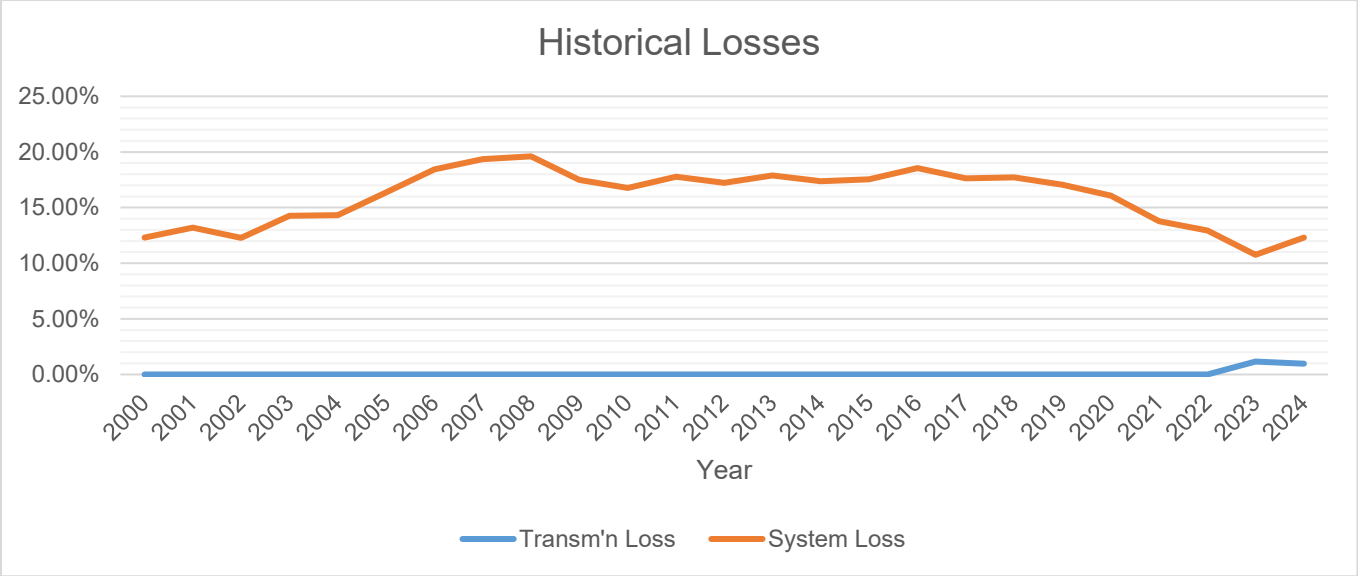
QUEZELCO I commit to continued transparency and will:

- Enhance documentation of all adjustments (with supporting meter audit reports, pilferage recovery logs, and adjustment memos) for future NEA submissions.
- Accelerate deployment of AMI/prepaid metering in high-risk areas to minimize estimation errors and retroactive adjustments.
- Maintain strict adherence to NEA's system loss categorization and cap guidelines.

We appreciate NEA's oversight in ensuring accurate performance reporting and stand ready to provide detailed backup documentation, audit trails, or clarifications for the specific months flagged.

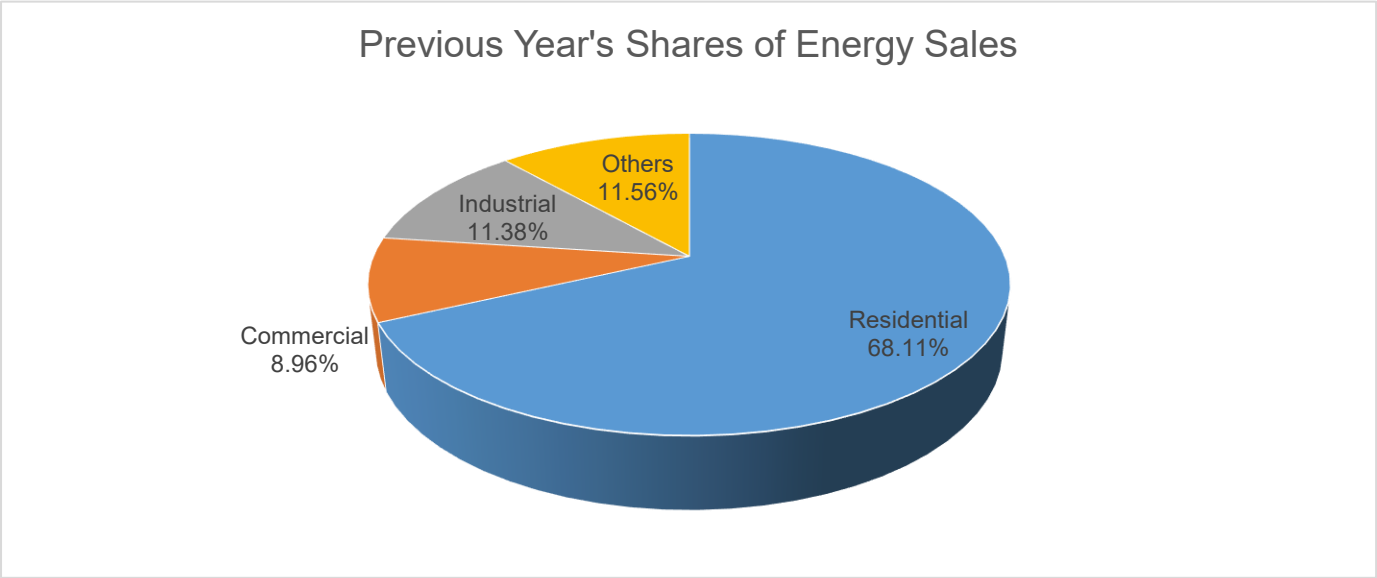


MWh Output **increased** from year **2023** to year **2024** at a rate of **11.154%**, while MWh System Loss **increased** at a rate of **29.321%** within the same period.

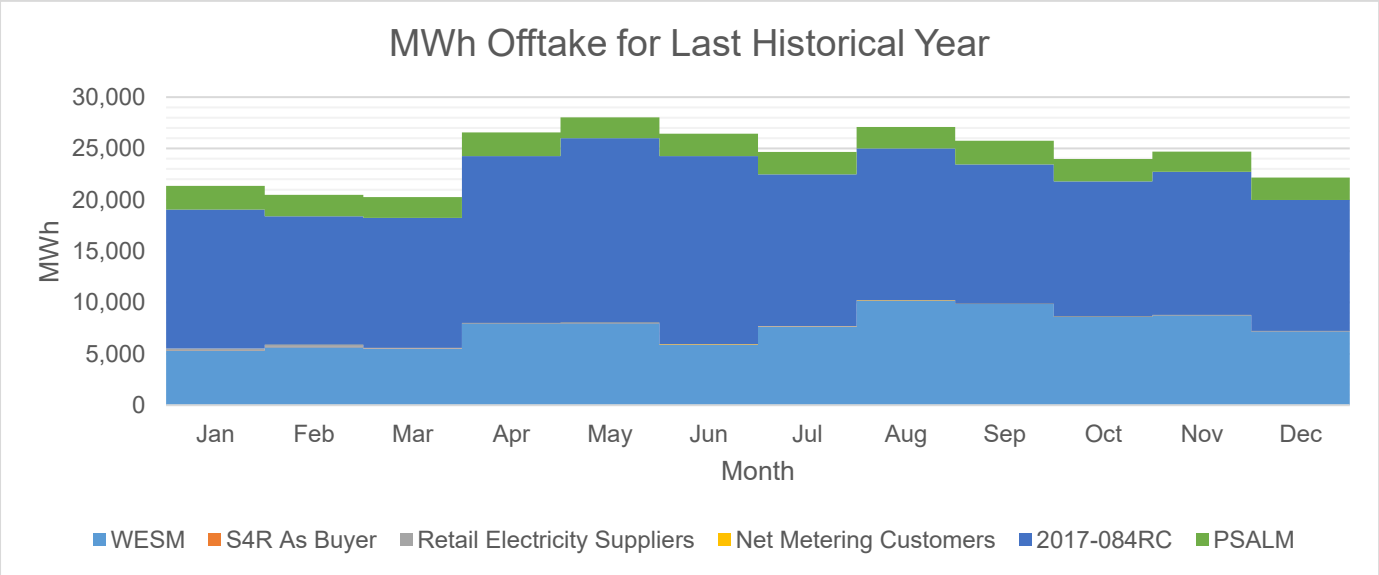


Historically, Transmission Loss is **0.97% in 2024**, while System Loss ranged from **10.76%** to **19.61%.** System Loss peaked at **19.61%** on year **2008** because of overextended lines and insufficient programs implemented to reduce system losses.

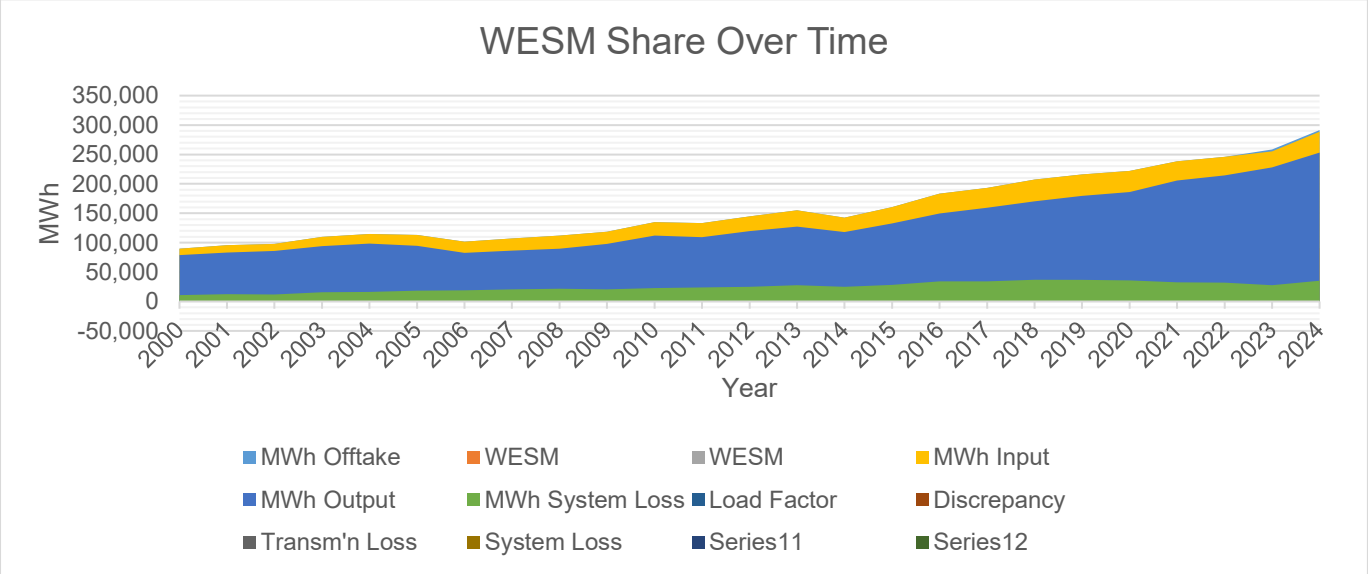
In 2022 and the years prior, transmission loss remains at 0% which the DOE observed that QUEZELCO I misinterpreted this data. QUEZELCO I acknowledged the DOE's comments and made the necessary corrections to the data exclusively for 2023 since correcting the entire historical data will require so much time. Since the submission of QUEZELCO I DDP PSPP 2024-2033 is a requirement for the conduct of Competitive Selection Process (CSP), which is being expedited by QUEZELCO I, the DOE takes it into consideration.



Residential customers account for the bulk of energy sales at **68.11%** due to the **high number of connections**. In contrast, **Commercial** customers accounted for only **8.96%** of energy sales despite of the high number of connections.

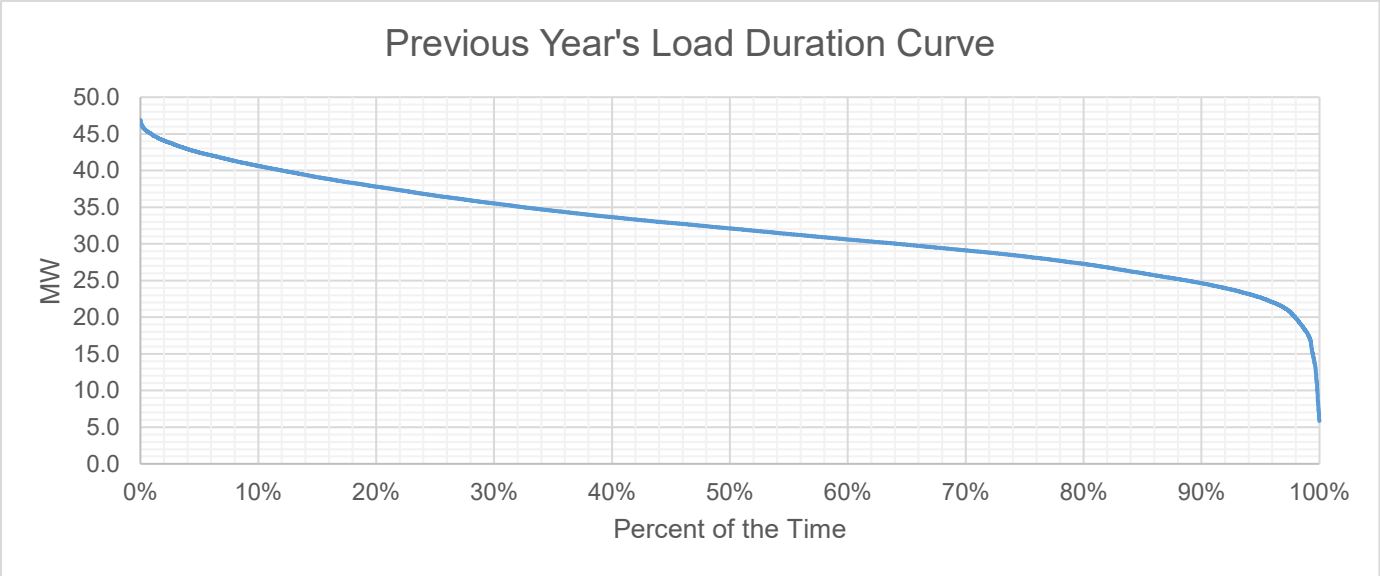


The total Offtake for the last historical year is **higher** than the quantity stipulated in the PSA. The PSA with **GN Power Dinginin (2017-084RC)** accounts for the bulk of MWh Offtake.

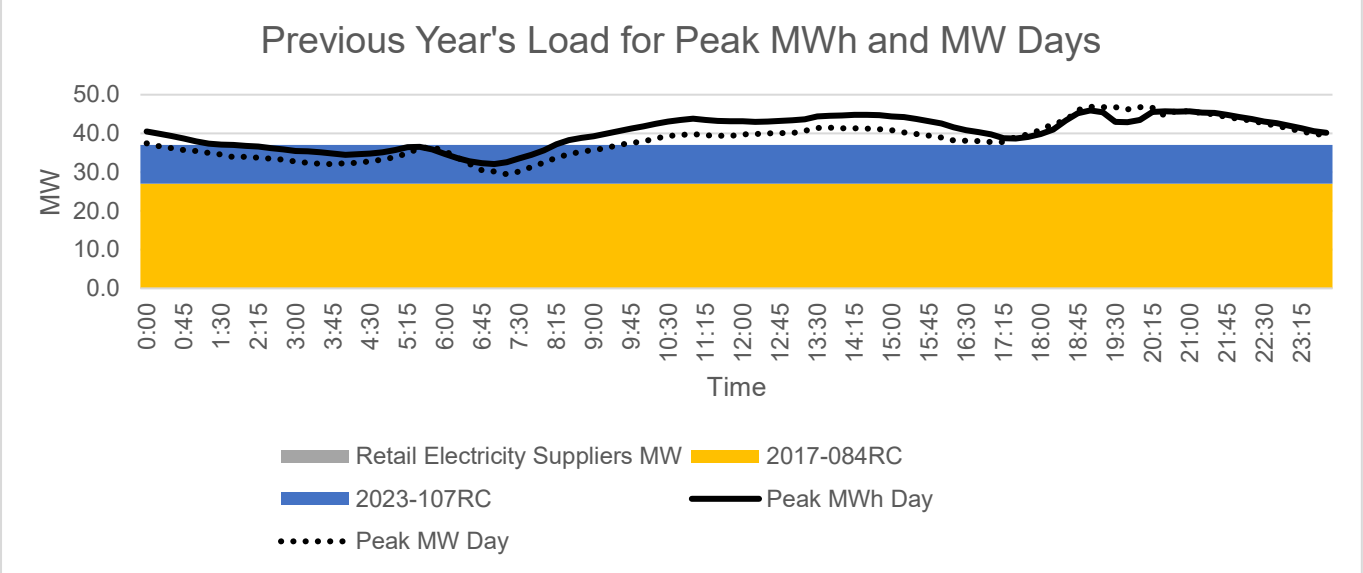


ESM Offtake **increased** from **73,596 MWh** in **2023** to **90,655 MWh** in **2024** at a rate of **23.17%** due to an abrupt increase in demand, which the current **two (2) power supply contracts** are **insufficient** to cover during peak hours. With this, QUEZELCO I is expediting the process of competitive selection process for additional power supply contracts.

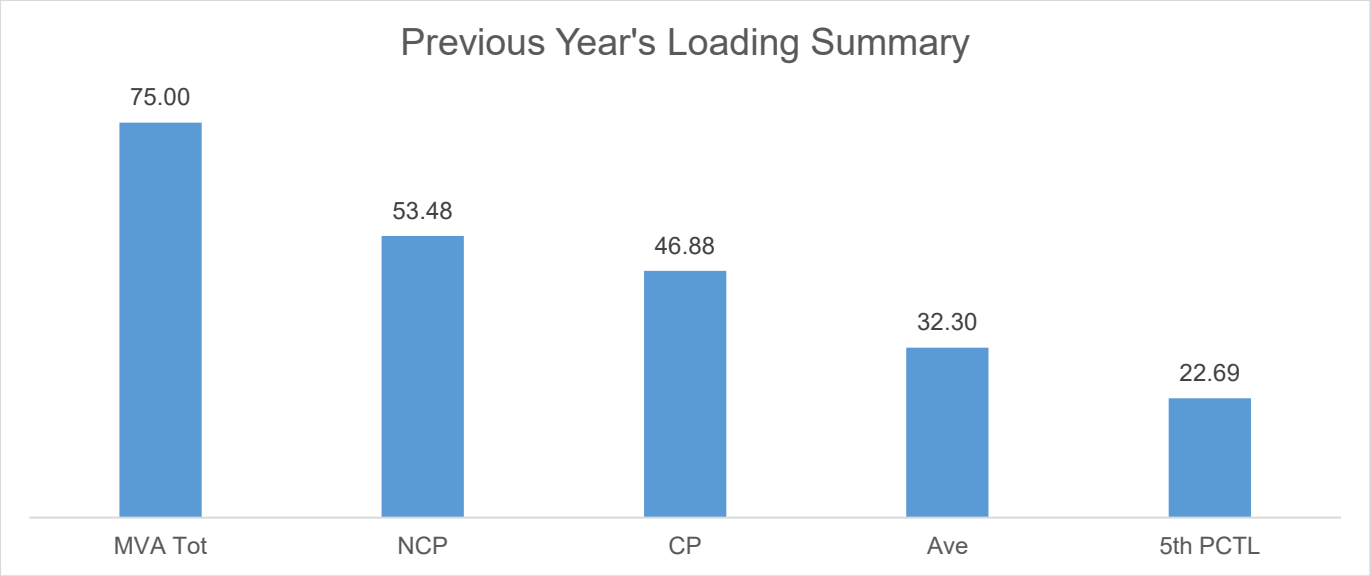
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is **5.86 MW** and the maximum load is **46.88 MW** for the last historical year.



Peak MW occurred on **August 13, 2024 7:00 PM** due to **high usage of Residential customers**. As shown in the Load Curves, the available supply is **sufficient** to accommodate the Peak Demand.



The Non-coincident Peak Demand is **53.48 MW**, which is around **71.30%** of the total substation capacity of **75 MVA** at a power factor of **96%.** The load factor or the ratio between the Average Load of **32.30 MW** and the Non-coincident Peak Demand is **60.40%**. A safe estimate of the true minimum load is the fifth percentile load of **22.69 MW** which is **42.43%** of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
GUMQUE101 ATIMONAN	5	4.438
LOPQUE103 HONDAGUA F1	2.5	2.990
GUMQUE104 TAGKAWAYAN	10	5.281
GUMQUE105 GUMACA	10	8.166
LOPQUE106 HONDAGUA F2	2.5	1.436
GUMQUE107 LOPEZ	10	8.896
GUMQUE108 CATANAUAN	5	4.460
PTGQUE110 PITOGO F2	5	4.571
MULQUE111 MULANAY	10	5.680
GUMQUE112 BALINARIN	5	4.032
MULQUE113 SAN NARCISO	10	3.528

The substations loaded at above 70% are Atimonan (101), Hondagua (103&106), Gumaca (105), Lopez (107), Catanauan (108), Balinarin (112) and Pitogo (110). This loading problem will be solved by the following projects;

1. Uprating the capacity of Atimonan from 5MVA to 10MVA.
2. Installation of Alabat 10MVA substation to relieve the 5MVA of Hondagua.
3. Installation of Calauag 15MVA substation to reduce the loading of Lopez (107) and Balinarin (112) substations.
4. Installation of Macalelon 10MVA substation to relieve the 5MVA Pitogo and 5MVA Catanauan.
5. Installation of Agdangan 15MVA substation to transfer most of the load of Pitogo and some of the load of Gumaca will be transferred to Pitogo.

Forecasted Consumption Data

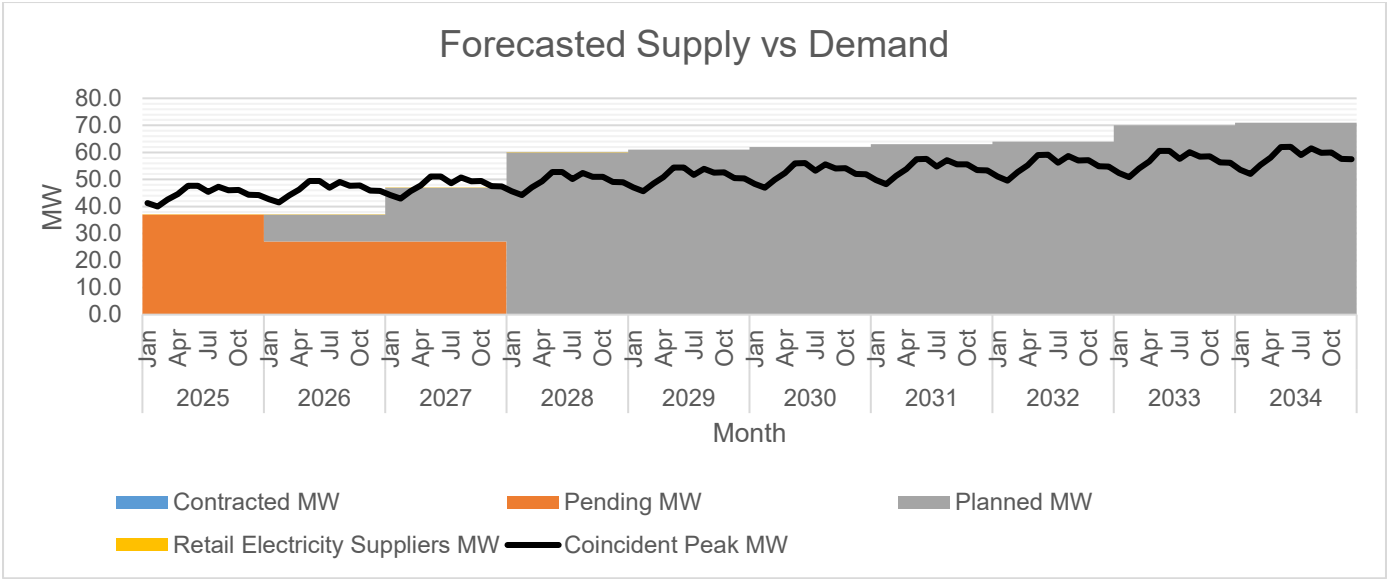
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2025	Jan	41.22	0.00	37.00	0.000	0.05	0%	90%	-4.17
	Feb	39.99	0.00	37.00	0.000	0.05	0%	93%	-2.94
	Mar	42.55	0.00	37.00	0.000	0.05	0%	87%	-5.50
	Apr	44.60	0.00	37.00	0.000	0.05	0%	83%	-7.55
	May	47.66	0.00	37.00	0.000	0.05	0%	78%	-10.61
	Jun	47.71	0.00	37.00	0.000	0.05	0%	78%	-10.65
	Jul	45.35	0.00	37.00	0.000	0.05	0%	82%	-8.30
	Aug	47.32	0.00	37.00	0.000	0.05	0%	78%	-10.27
	Sep	46.04	0.00	37.00	0.000	0.05	0%	80%	-8.99
	Oct	46.11	0.00	37.00	0.000	0.05	0%	80%	-9.06
	Nov	44.32	0.00	37.00	0.000	0.05	0%	84%	-7.27
	Dec	44.21	0.00	37.00	0.000	0.05	0%	84%	-7.16
2026	Jan	42.72	0.00	27.00	10.000	0.05	0%	87%	-5.67
	Feb	41.44	0.00	27.00	10.000	0.05	0%	89%	-4.39
	Mar	44.09	0.00	27.00	10.000	0.05	0%	84%	-7.04
	Apr	46.22	0.00	27.00	10.000	0.05	0%	80%	-9.17
	May	49.38	0.00	27.00	10.000	0.05	0%	75%	-12.33
	Jun	49.43	0.00	27.00	10.000	0.05	0%	75%	-12.38
	Jul	46.99	0.00	27.00	10.000	0.05	0%	79%	-9.94
	Aug	49.04	0.00	27.00	10.000	0.05	0%	76%	-11.99
	Sep	47.71	0.00	27.00	10.000	0.05	0%	78%	-10.66
	Oct	47.78	0.00	27.00	10.000	0.05	0%	78%	-10.73
	Nov	45.93	0.00	27.00	10.000	0.05	0%	81%	-8.87
	Dec	45.82	0.00	27.00	10.000	0.05	0%	81%	-8.76
2027	Jan	44.18	0.00	27.00	20.000	0.05	0%	106%	2.87
	Feb	42.86	0.00	27.00	20.000	0.05	0%	110%	4.19
	Mar	45.60	0.00	27.00	20.000	0.05	0%	103%	1.45
	Apr	47.80	0.00	27.00	20.000	0.05	0%	98%	-0.75

	May	51.08	0.00	27.00	20.000	0.05	0%	92%	-4.03
	Jun	51.13	0.00	27.00	20.000	0.05	0%	92%	-4.08
	Jul	48.60	0.00	27.00	20.000	0.05	0%	97%	-1.55
	Aug	50.72	0.00	27.00	20.000	0.05	0%	93%	-3.67
	Sep	49.35	0.00	27.00	20.000	0.05	0%	95%	-2.30
	Oct	49.42	0.00	27.00	20.000	0.05	0%	95%	-2.37
	Nov	47.50	0.00	27.00	20.000	0.05	0%	99%	-0.45
	Dec	47.39	0.00	27.00	20.000	0.05	0%	99%	-0.34
2028	Jan	45.62	0.00	0.00	60.000	0.05	0%	132%	14.43
	Feb	44.26	0.00	0.00	60.000	0.05	0%	136%	15.79
	Mar	47.08	0.00	0.00	60.000	0.05	0%	128%	12.97
	Apr	49.35	0.00	0.00	60.000	0.05	0%	122%	10.70
	May	52.74	0.00	0.00	60.000	0.05	0%	114%	7.31
	Jun	52.79	0.00	0.00	60.000	0.05	0%	114%	7.26
	Jul	50.18	0.00	0.00	60.000	0.05	0%	120%	9.87
	Aug	52.37	0.00	0.00	60.000	0.05	0%	115%	7.68
	Sep	50.95	0.00	0.00	60.000	0.05	0%	118%	9.10
	Oct	51.03	0.00	0.00	60.000	0.05	0%	118%	9.02
	Nov	49.04	0.00	0.00	60.000	0.05	0%	122%	11.01
	Dec	48.93	0.00	0.00	60.000	0.05	0%	123%	11.12
2029	Jan	47.03	0.00	0.00	61.000		0%	130%	13.97
	Feb	45.62	0.00	0.00	61.000		0%	134%	15.38
	Mar	48.53	0.00	0.00	61.000		0%	126%	12.47
	Apr	50.88	0.00	0.00	61.000		0%	120%	10.12
	May	54.36	0.00	0.00	61.000		0%	112%	6.64
	Jun	54.42	0.00	0.00	61.000		0%	112%	6.58
	Jul	51.73	0.00	0.00	61.000		0%	118%	9.27
	Aug	53.98	0.00	0.00	61.000		0%	113%	7.02
	Sep	52.52	0.00	0.00	61.000		0%	116%	8.48
	Oct	52.60	0.00	0.00	61.000		0%	116%	8.40
	Nov	50.56	0.00	0.00	61.000		0%	121%	10.44
	Dec	50.43	0.00	0.00	61.000		0%	121%	10.57
2030	Jan	48.40	0.00	0.00	62.000		0%	128%	13.60

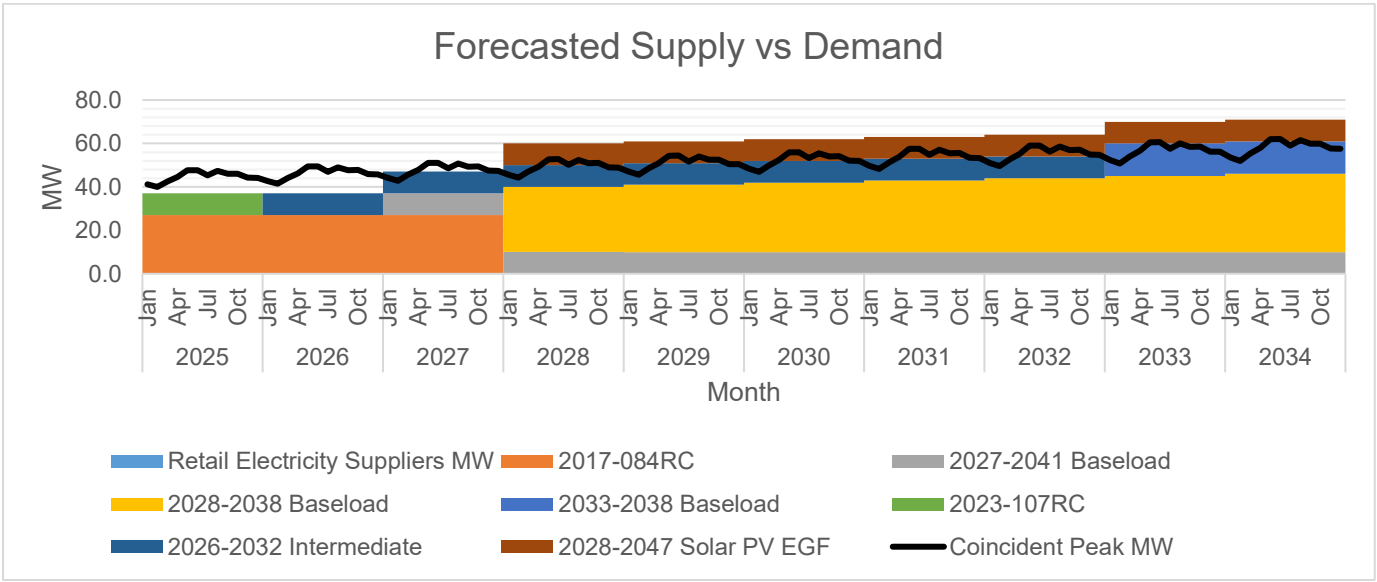
	Feb	46.96	0.00	0.00	62.000		0%	132%	15.04
	Mar	49.96	0.00	0.00	62.000		0%	124%	12.04
	Apr	52.37	0.00	0.00	62.000		0%	118%	9.63
	May	55.95	0.00	0.00	62.000		0%	111%	6.05
	Jun	56.01	0.00	0.00	62.000		0%	111%	5.99
	Jul	53.24	0.00	0.00	62.000		0%	116%	8.76
	Aug	55.56	0.00	0.00	62.000		0%	112%	6.44
	Sep	54.06	0.00	0.00	62.000		0%	115%	7.94
	Oct	54.14	0.00	0.00	62.000		0%	115%	7.86
	Nov	52.04	0.00	0.00	62.000		0%	119%	9.96
	Dec	51.91	0.00	0.00	62.000		0%	119%	10.09
2031	Jan	49.75	0.00	0.00	63.000		0%	127%	13.25
	Feb	48.26	0.00	0.00	63.000		0%	131%	14.74
	Mar	51.35	0.00	0.00	63.000		0%	123%	11.65
	Apr	53.82	0.00	0.00	63.000		0%	117%	9.18
	May	57.51	0.00	0.00	63.000		0%	110%	5.49
	Jun	57.57	0.00	0.00	63.000		0%	109%	5.43
	Jul	54.73	0.00	0.00	63.000		0%	115%	8.27
	Aug	57.11	0.00	0.00	63.000		0%	110%	5.89
	Sep	55.57	0.00	0.00	63.000		0%	113%	7.43
	Oct	55.65	0.00	0.00	63.000		0%	113%	7.35
	Nov	53.49	0.00	0.00	63.000		0%	118%	9.51
	Dec	53.36	0.00	0.00	63.000		0%	118%	9.64
2032	Jan	51.07	0.00	0.00	64.000		0%	125%	12.93
	Feb	49.55	0.00	0.00	64.000		0%	129%	14.45
	Mar	52.71	0.00	0.00	64.000		0%	121%	11.29
	Apr	55.25	0.00	0.00	64.000		0%	116%	8.75
	May	59.04	0.00	0.00	64.000		0%	108%	4.96
	Jun	59.10	0.00	0.00	64.000		0%	108%	4.90
	Jul	56.18	0.00	0.00	64.000		0%	114%	7.82
	Aug	58.63	0.00	0.00	64.000		0%	109%	5.37
	Sep	57.04	0.00	0.00	64.000		0%	112%	6.96
	Oct	57.13	0.00	0.00	64.000		0%	112%	6.87

	Nov	54.91	0.00	0.00	64.000		0%	117%	9.09
	Dec	54.77	0.00	0.00	64.000		0%	117%	9.23
2033	Jan	52.37	0.00	0.00	70.000		0%	134%	17.63
	Feb	50.80	0.00	0.00	70.000		0%	138%	19.20
	Mar	54.05	0.00	0.00	70.000		0%	130%	15.95
	Apr	56.65	0.00	0.00	70.000		0%	124%	13.35
	May	60.54	0.00	0.00	70.000		0%	116%	9.46
	Jun	60.60	0.00	0.00	70.000		0%	116%	9.40
	Jul	57.60	0.00	0.00	70.000		0%	122%	12.40
	Aug	60.11	0.00	0.00	70.000		0%	116%	9.89
	Sep	58.49	0.00	0.00	70.000		0%	120%	11.51
	Oct	58.57	0.00	0.00	70.000		0%	120%	11.43
	Nov	56.30	0.00	0.00	70.000		0%	124%	13.70
	Dec	56.16	0.00	0.00	70.000		0%	125%	13.84
2034	Jan	53.63	0.00	0.00	71.000		0%	132%	17.37
	Feb	52.03	0.00	0.00	71.000		0%	136%	18.97
	Mar	55.36	0.00	0.00	71.000		0%	128%	15.64
	Apr	58.03	0.00	0.00	71.000		0%	122%	12.97
	May	62.00	0.00	0.00	71.000		0%	115%	9.00
	Jun	62.07	0.00	0.00	71.000		0%	114%	8.93
	Jul	59.00	0.00	0.00	71.000		0%	120%	12.00
	Aug	61.57	0.00	0.00	71.000		0%	115%	9.43
	Sep	59.90	0.00	0.00	71.000		0%	119%	11.10
	Oct	59.99	0.00	0.00	71.000		0%	118%	11.01
	Nov	57.66	0.00	0.00	71.000		0%	123%	13.34
	Dec	57.52	0.00	0.00	71.000		0%	123%	13.48

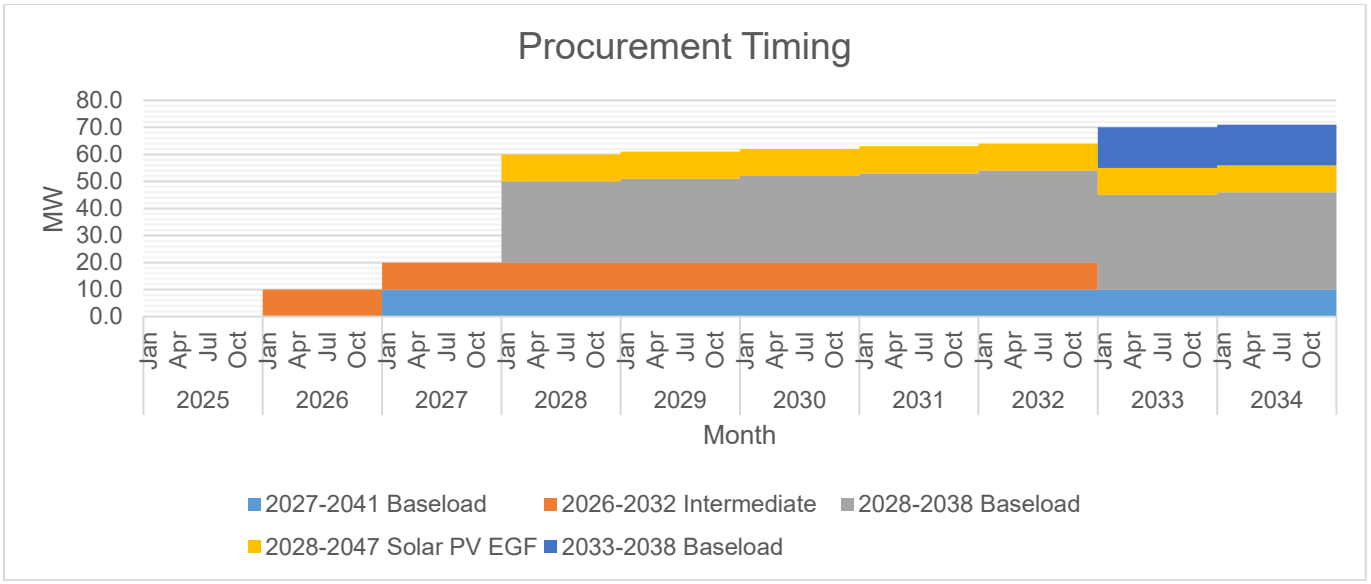
The Peak Demand was forecasted using **Regression Analysis** and was assumed to occur on the month of **June** due to the reason that the Peak Demand of the coop is occurring on that month. Monthly Peak Demand is at its lowest on the month of **February** due to **cold weather** on that month. In general, Peak Demand is expected to grow at a rate of **2.9674%** annually.



The available supply is generally **below** the Peak Demand. This is because of the reason that **QUEZELCO I's contracted capacity is 27 MW** and a **10 MW from PSALM for 9:01AM-7:00PM** only. For the **2023-2024 power supply contract** with the **Power Sector Assets and Liabilities Management (PSALM) Corporation** will be **extended** until **December 2025**. The coop will conduct its Competitive Selection Process this year **2025** to augment its contracted capacity and serve its growing number of customers.

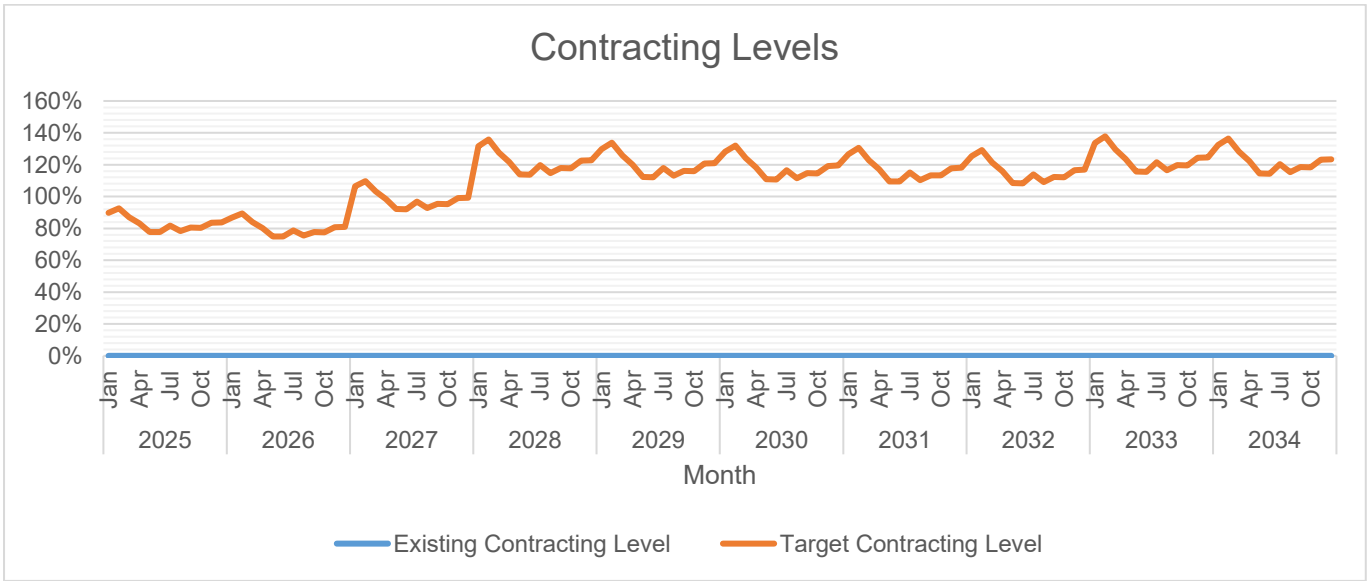


Of the available supply, the largest is **27 MW** from GNPower. This is followed by **10 MW from PSALM**. The coop will conduct its Competitive Selection Process for a new power supplier to start supplying in **2026**. And, planning to have a **Solar PV Embedded Generation Facility** in **December 2027.**

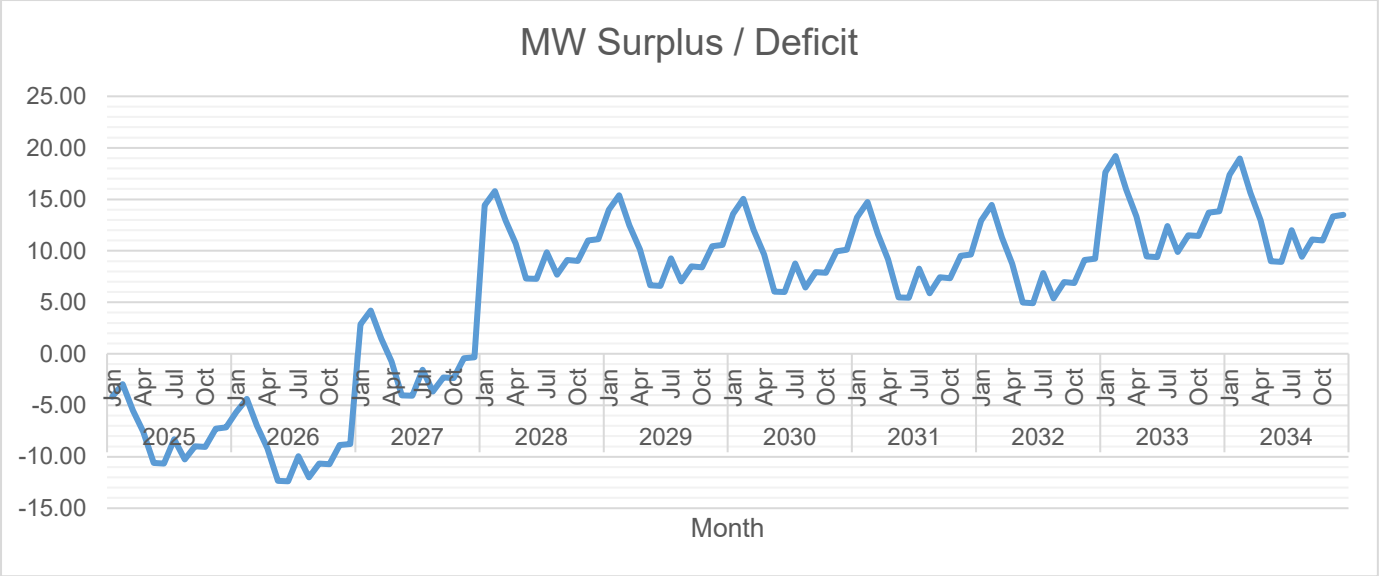


The first wave of supply procurement will be a **10 MW baseload (open-technology)** and **10 MW intermediate (renewable technology) (from 0901H to 1700H)** planned to be available by the month of **January 2027 until December 2041 and January 2026 until December 2032**. For the year 2028, the supply procurement will be a **30 MW baseload** with **1 MW incremental every year** starting **January 2028 until December 2038.** Additionally, the coop is planning to enter in a **joint venture** in a **10 MW Solar PV EGF (from 8:00AM to 4:00PM)** which shall be inter-connected and synchronized to Feeder 2 Gumaca Substation of NGCP. The target operation of the said EGF is **December 2027**. Lastly, the contract for the Supply of Electric Energy (CSEE) with **PSALM** under **ERC Case No. 2023-107 RC** supplying a **10 MW (9:01AM – 7:00PM)** will be extended until **December 2025** under a **Letter of Agreement (LOA) dated January 22, 2025**.

QUEZELCO I will not be over-contracted with the above planned contracts since there are contracts with specific time dispatch. For 2028 the peak demand for January to February is 45.62MW with possible maximum nomination of 60MW and possible minimum nominations of: 20MW from intervals 1 to 8, 30MW from intervals 9 to 10, 40MW from intervals 11 to 16, 30MW from intervals 17 to 21 and, 20MW from intervals 22 to 24. Also, the coop energy trading section will have a very flexible trading scheme to trade in WESM for a much competitive rate.



Currently, QUEZELCO I's two contracts are **pending** ERC's approval – a **27 MW** contract capacity with **GNPower Dinginin** with Provisional Authority and a **10 MW** contract capacity with **PSALM.**



Currently, there is **under-contracting** by **9.86 MW**. The highest **deficit** is **12.38 MW** which is expected to occur on the month of **June 2026**. The lowest deficit is **0.34 MW** which is expected to occur on the month of **December 2027**. The highest surplus is **19.20 MW** which is expected to occur on the month of **February 2033**. But, if the basis is per interval nomination, the coop will not be over-contracted as explained in the procurement timing.

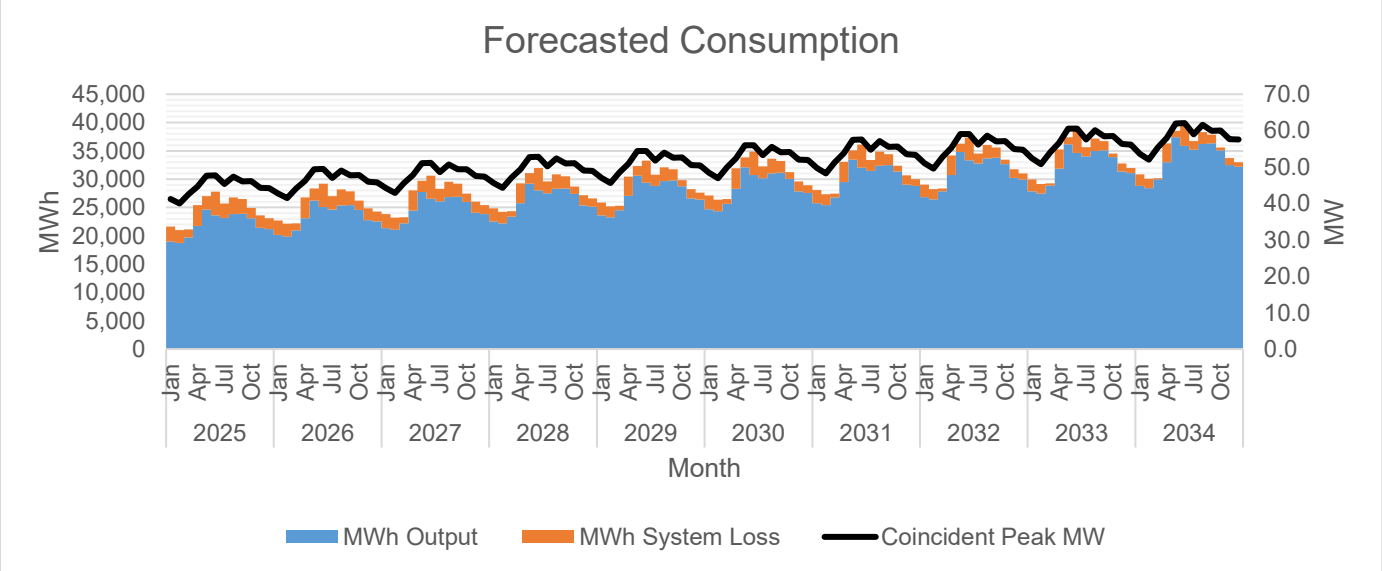
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2025	Jan	21,865	18,977	2,627	1.19%	12.16%
	Feb	21,305	18,722	2,316	1.26%	11.01%
	Mar	21,395	19,701	1,425	1.26%	6.75%
	Apr	25,748	21,733	3,700	1.22%	14.55%
	May	27,296	24,624	2,349	1.18%	8.71%
	Jun	28,133	23,597	4,187	1.24%	15.07%
	Jul	26,103	23,172	2,524	1.56%	9.82%
	Aug	27,239	23,835	2,966	1.61%	11.07%
	Sep	26,850	23,914	2,576	1.34%	9.73%
	Oct	25,270	23,097	1,807	1.45%	7.25%
	Nov	24,076	21,381	2,229	1.93%	9.44%
	Dec	23,425	21,200	1,884	1.45%	8.16%
2026	Jan	22,897	20,179	2,544	0.76%	11.19%
	Feb	22,308	19,907	2,219	0.81%	10.03%
	Mar	22,402	20,948	1,271	0.82%	5.72%
	Apr	26,921	23,109	3,640	0.64%	13.61%
	May	28,618	26,183	2,186	0.87%	7.71%
	Jun	29,329	25,092	4,131	0.36%	14.14%
	Jul	27,194	24,640	2,387	0.62%	8.83%
	Aug	28,410	25,345	2,845	0.78%	10.09%
	Sep	28,140	25,428	2,433	0.99%	8.73%
	Oct	26,479	24,560	1,633	1.08%	6.24%
	Nov	25,223	22,735	2,098	1.55%	8.45%
	Dec	24,537	22,542	1,737	1.05%	7.15%
2027	Jan	24,115	21,359	2,454	1.25%	10.31%
	Feb	23,351	21,071	2,117	0.70%	9.13%
	Mar	23,550	22,173	1,113	1.12%	4.78%
	Apr	28,316	24,459	3,574	1.00%	12.75%
	May	29,867	27,714	2,017	0.45%	6.78%
	Jun	30,945	26,559	4,066	1.03%	13.28%
	Jul	28,552	26,081	2,243	0.80%	7.92%
	Aug	29,960	26,827	2,716	1.40%	9.19%
	Sep	29,331	26,915	2,284	0.45%	7.82%
	Oct	27,734	25,996	1,454	1.02%	5.30%
	Nov	26,304	24,065	1,960	1.06%	7.53%

	Dec	25,578	23,860	1,584	0.52%	6.22%
2028	Jan	25,071	22,514	2,361	0.78%	9.49%
	Feb	24,474	22,210	2,012	1.03%	8.31%
	Mar	24,622	23,371	952	1.21%	3.92%
	Apr	29,390	25,781	3,501	0.37%	11.96%
	May	31,349	29,212	1,844	0.93%	5.94%
	Jun	32,146	27,994	3,996	0.49%	12.49%
	Jul	29,849	27,490	2,095	0.88%	7.08%
	Aug	30,954	28,277	2,582	0.31%	8.37%
	Sep	30,653	28,370	2,130	0.50%	6.98%
	Oct	28,951	27,401	1,273	0.96%	4.44%
	Nov	27,500	25,366	1,819	1.15%	6.69%
	Dec	26,865	25,150	1,428	1.07%	5.37%
2029	Jan	26,119	23,605	2,265	0.95%	8.76%
	Feb	25,539	23,279	1,904	1.40%	7.56%
	Mar	25,579	24,497	791	1.14%	3.13%
	Apr	30,569	27,030	3,425	0.37%	11.25%
	May	32,474	30,637	1,669	0.51%	5.17%
	Jun	33,531	29,356	3,921	0.76%	11.78%
	Jul	31,042	28,828	1,946	0.86%	6.32%
	Aug	32,358	29,651	2,446	0.81%	7.62%
	Sep	31,992	29,751	1,975	0.83%	6.22%
	Oct	29,941	28,732	1,090	0.40%	3.65%
	Nov	28,566	26,595	1,676	1.03%	5.93%
	Dec	27,823	26,364	1,271	0.68%	4.60%
2030	Jan	27,232	24,704	2,391	0.50%	8.83%
	Feb	26,636	24,362	2,013	0.98%	7.63%
	Mar	26,770	25,637	849	1.06%	3.20%
	Apr	32,162	28,288	3,610	0.82%	11.32%
	May	34,039	32,063	1,774	0.59%	5.24%
	Jun	35,235	30,723	4,130	1.08%	11.85%
	Jul	32,453	30,170	2,061	0.68%	6.39%
	Aug	34,021	31,031	2,585	1.19%	7.69%
	Sep	33,538	31,135	2,092	0.92%	6.30%
	Oct	31,412	30,069	1,164	0.57%	3.73%
	Nov	30,082	27,833	1,776	1.57%	6.00%
	Dec	29,109	27,591	1,352	0.57%	4.67%
2031	Jan	28,418	25,776	2,301	1.20%	8.20%
	Feb	27,687	25,419	1,912	1.29%	7.00%
	Mar	27,645	26,749	696	0.72%	2.54%
	Apr	33,323	29,515	3,539	0.81%	10.71%
	May	35,269	33,454	1,609	0.58%	4.59%
	Jun	36,503	32,055	4,061	1.06%	11.24%
	Jul	33,629	31,479	1,920	0.69%	5.75%
	Aug	35,248	32,377	2,457	1.17%	7.05%
	Sep	34,748	32,486	1,946	0.91%	5.65%
	Oct	32,551	31,373	992	0.57%	3.06%
	Nov	31,167	29,041	1,641	1.56%	5.35%
	Dec	30,164	28,788	1,204	0.57%	4.01%
2032	Jan	29,476	26,821	2,211	1.51%	7.62%
	Feb	28,520	26,449	1,811	0.91%	6.41%
	Mar	28,724	27,834	545	1.20%	1.92%
	Apr	34,452	30,711	3,466	0.80%	10.14%
	May	36,465	34,810	1,445	0.58%	3.99%
	Jun	37,637	33,354	3,989	0.78%	10.68%
	Jul	34,773	32,755	1,779	0.69%	5.15%
	Aug	36,242	33,690	2,329	0.62%	6.47%
	Sep	35,824	33,803	1,800	0.62%	5.05%
	Oct	33,658	32,645	820	0.57%	2.45%
	Nov	32,022	30,218	1,507	0.93%	4.75%
	Dec	31,190	29,955	1,056	0.57%	3.41%
2033	Jan	30,208	27,840	2,120	0.82%	7.08%
	Feb	29,408	27,454	1,710	0.83%	5.86%
	Mar	29,483	28,891	395	0.67%	1.35%

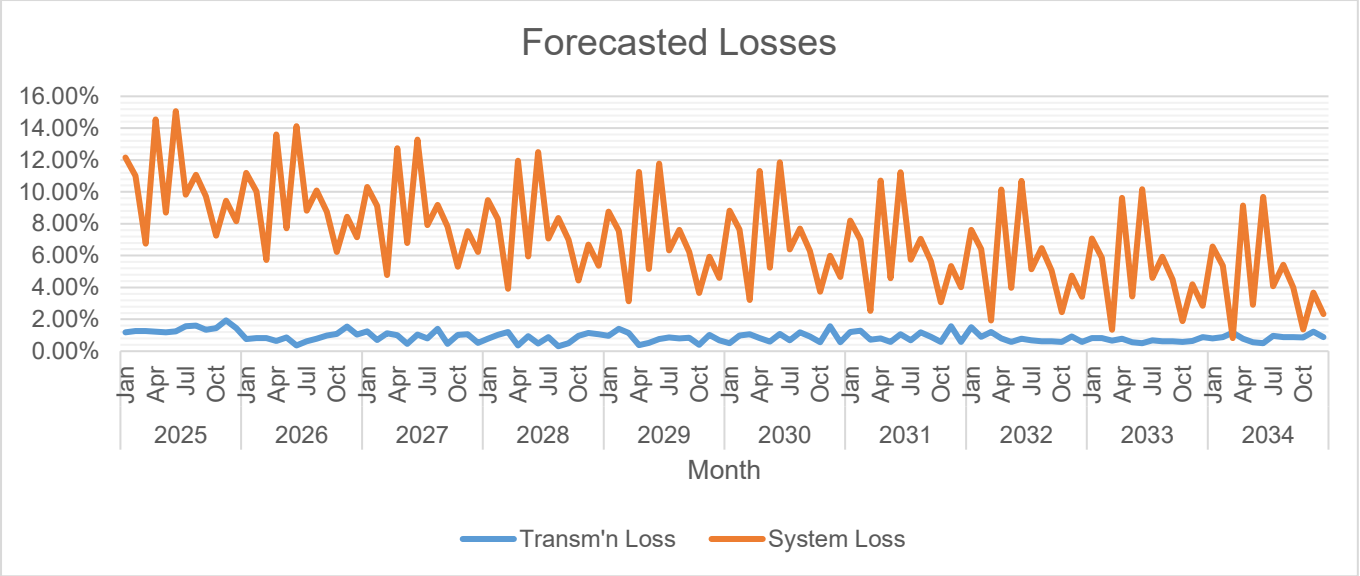
	Apr	35,549	31,877	3,393	0.78%	9.62%
	May	37,629	36,132	1,282	0.57%	3.43%
	Jun	38,736	34,622	3,916	0.51%	10.16%
	Jul	35,886	34,000	1,639	0.69%	4.60%
	Aug	37,403	34,969	2,201	0.62%	5.92%
	Sep	36,969	35,087	1,654	0.62%	4.50%
	Oct	34,736	33,885	650	0.58%	1.88%
	Nov	32,949	31,366	1,373	0.64%	4.19%
	Dec	32,289	31,093	910	0.88%	2.84%
2034	Jan	31,115	28,834	2,030	0.81%	6.58%
	Feb	30,311	28,435	1,609	0.88%	5.36%
	Mar	30,526	29,923	248	1.17%	0.82%
	Apr	36,617	33,016	3,319	0.77%	9.13%
	May	38,762	37,423	1,121	0.56%	2.91%
	Jun	39,903	35,858	3,843	0.51%	9.68%
	Jul	37,069	35,214	1,500	0.96%	4.09%
	Aug	38,634	36,218	2,074	0.88%	5.42%
	Sep	38,184	36,340	1,510	0.87%	3.99%
	Oct	35,884	35,095	482	0.85%	1.36%
	Nov	34,148	32,486	1,241	1.23%	3.68%
	Dec	33,260	32,204	765	0.88%	2.32%

MWh Offtake was forecasted using the **regression analysis**.

System Loss was calculated through a **Load Flow Study** conducted using **Synergi software**. Based on the same study, the Distribution System cannot adequately convey electricity to customers. Therefore, QUEZELCO I is implementing its **CAPEX projects** to satisfy its consumers.



MWh Output was expected to grow at a rate of **4.7613%** annually.



Transmission Loss is expected to range from **0.31% to 1.94%** while System Loss is expected to range from **0.82%** to **15.07%.**

Power Supply

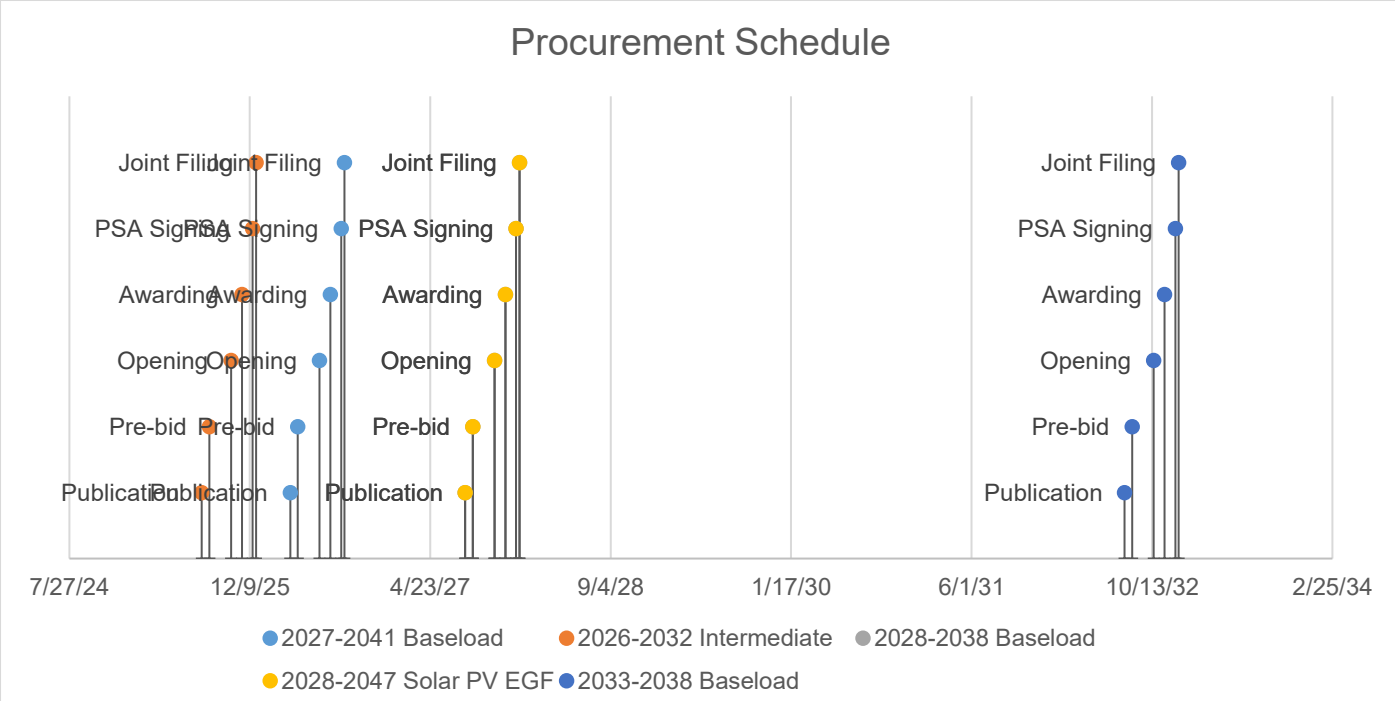
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2017-084RC	Base	GN Power Dinginin	13.50	161,980	12/26/2019	12/25/2027
2023-107RC	Intermediate	Power Sector Assets and Liabilities Management Corporation	10.00	4,300	2/26/2023	12/25/2025

The PSA with **GNPower Dinginin** filed with ERC under ERC Case No. **2017-084RC** was procured through Competitive Selection Process. It was selected to provide for base requirements due to the nature of customers of QUEZELCO I. Historically, the utilization of the PSA is **62.24%**. Outages of the plant led to **unserved energy** of around **200 MWh** in the past year. The actual billed overall monthly charge under the PSA ranged from **5.44 P/kWh** to **6.34 P/KWh** in the same period.

The same ERC case was granted a **Provisional Authority** last **August 9, 2017**. Then on **December 20, 2019**, **GNPower Dinginin** sent a proposal with the subject "**Supplement to the Power Purchase and Sale Agreement and Bridge Power Supply Contract**" and was accordingly granted and accepted. This resulted to a bridge contract with **Therma Luzon Inc. (TLI)**.

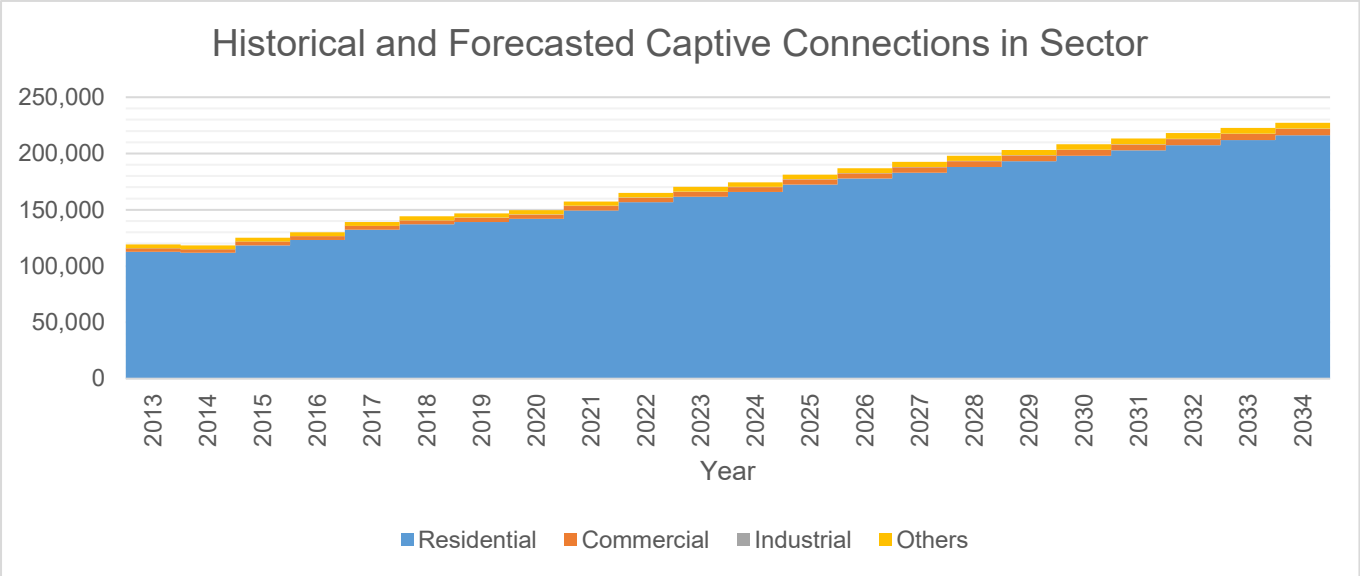
The CSEE with **PSALM,** filed with ERC under ERC Case No. **2023-107RC** was procured through a **Certificate of Exemption** under **COE-CSP-2023-02-002** issued by the Department of Energy. It was selected to provide for **mid-merit requirements** due to the nature of customers of QUEZELCO I. Historically, the utilization of the PSA is **8.89%**. Outages of the plant led to **unserved energy** of around **50 MWh** in the past year. The actual billed overall monthly charge under the PSA ranged from **5.39 P/kWh** to **6.18 P/KWh** in the same period.

	2027-2041 Baseload	2026-2032 Intermediate	2028-2038 Baseload	2028-2047 Solar PV EGF	2033-2038 Baseload
Type	Base	Intermediate	Base	Peaking	Base
Minimum MW	5.00	10.00	15.00	10.00	7.50
Minimum MWh/yr	56,940	26,880	170,820	33,048	81,000
PSA Start	12/26/2026	12/26/2025	12/26/2027	12/26/2027	12/26/2032
PSA End	12/25/2041	12/25/2032	12/25/2038	12/25/2047	12/25/2038
Publication	3/31/2026	7/29/2025	7/29/2027	7/29/2027	7/29/2032
Pre-bid	4/21/2026	8/19/2025	8/19/2027	8/19/2027	8/19/2032
Opening	6/20/2026	10/18/2025	10/18/2027	10/18/2027	10/18/2032
Awarding	7/20/2026	11/17/2025	11/17/2027	11/17/2027	11/17/2032
PSA Signing	8/19/2026	12/17/2025	12/17/2027	12/17/2027	12/17/2032
Joint Filing	8/28/2026	12/26/2025	12/26/2027	12/26/2027	12/26/2032



For the procurement of **10 MW baseload (open-technology with a minimum nomination of 5 MW and a maximum nomination of 10 MW)** is for CSP Aggregation administered by NEA. The **10 MW intermediate (renewable technology from 0901H to 1700H)** planned to be available by **January 2026**, the first publication or launch of CSP will be on **July 29, 2025**. Joint filing is planned on **December 26, 2025** or **150 days later**, in accordance with **DOE's CSP Policy DC 2023-06-0021**. The **Contract for the Supply Electric Energy (CSEE)** with the **Power Sector Assets and Liabilities Management (PSALM) Corporation** will be extended until **December 2025**. Additionally, Quezelco1 is **planning** to have an **embedded generation (Solar PV)**. Documentary requirements for the NEA and DOE review are currently being prepared. Also, our team is currently working on the preparation for the two (2) planned CSP for the whole power requirement of QUEZELCO I for 2028 and 2033, respectively

Captive Customer Connections



The number of **174,416 connections** is expected to grow at a rate of **2.97%** annually. Residential customer class is expected to account for **68.12%** of the total consumption.