Power Supply Procurement Plan 2024

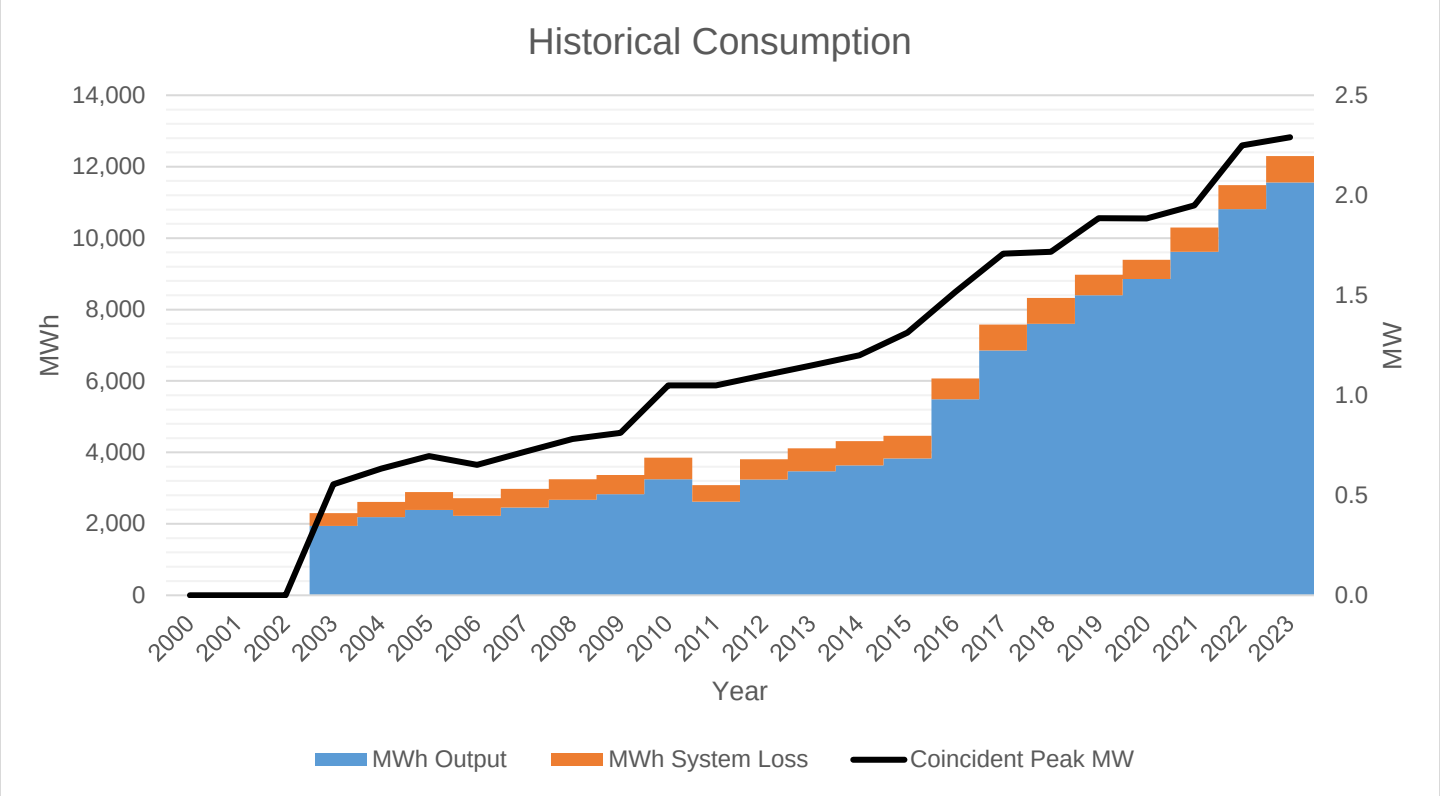
POLILLO, BURDEOS and PANUKULAN,

QUEZON

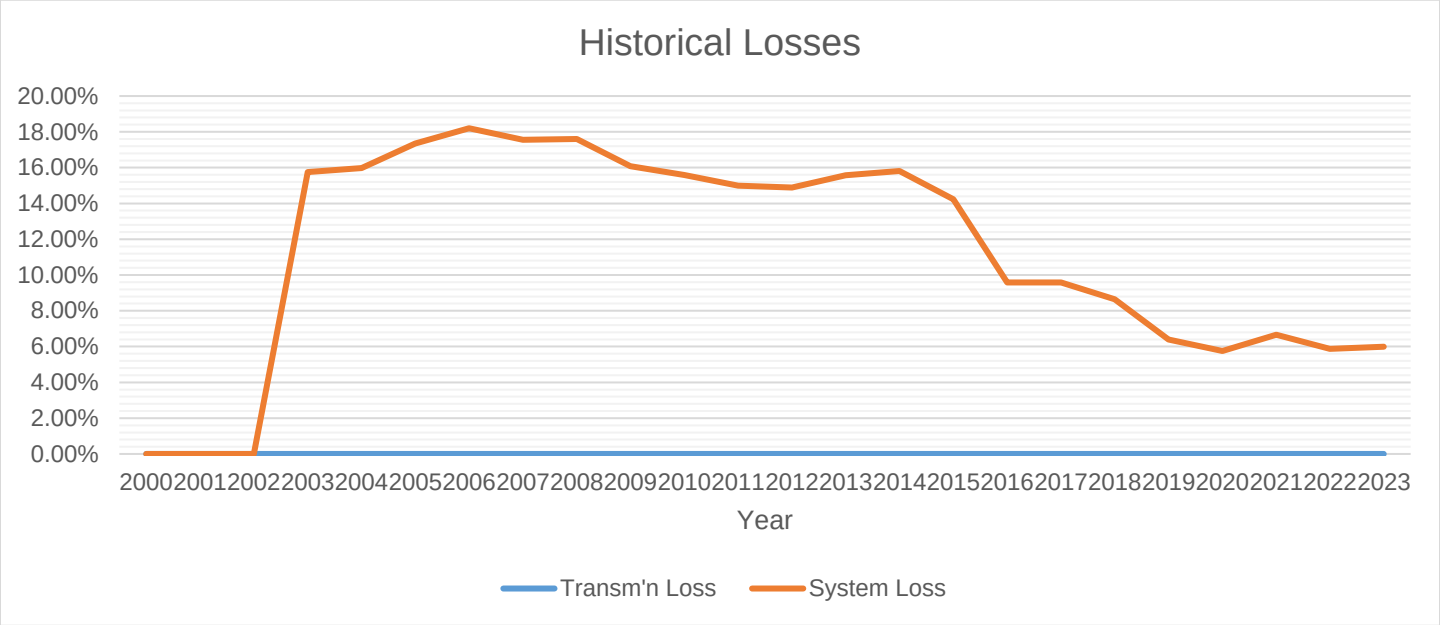
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2001	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2002	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2003	0.55	2,302	0	2,302	1,941	363	47%	0.08%	0.00%	15.75%
2004	0.63	2,631	0	2,631	2,192	420	47%	-0.72%	0.00%	15.97%
2005	0.70	2,888	0	2,888	2,387	501	47%	0.00%	0.00%	17.35%
2006	0.65	2,709	0	2,709	2,223	493	47%	0.25%	0.00%	18.20%
2007	0.72	2,979	0	2,979	2,456	523	47%	0.00%	0.00%	17.55%
2008	0.78	3,245	0	3,245	2,674	571	47%	0.00%	0.00%	17.60%
2009	0.81	3,370	0	3,370	2,828	542	47%	0.00%	0.00%	16.09%
2010	1.05	3,850	0	3,850	3,250	600	42%	0.00%	0.00%	15.59%
2011	1.05	3,084	0	3,084	2,622	463	34%	0.00%	0.00%	15.00%
2012	1.10	3,806	0	3,806	3,239	567	39%	0.00%	0.00%	14.89%
2013	1.15	4,114	0	4,114	3,474	641	41%	0.00%	0.00%	15.58%
2014	1.20	4,319	0	4,319	3,637	683	41%	0.00%	0.00%	15.81%
2015	1.31	4,469	0	4,469	3,833	636	39%	0.00%	0.00%	14.24%
2016	1.52	6,073	0	6,073	5,491	582	46%	0.00%	0.00%	9.58%
2017	1.71	7,511	0	7,511	6,857	720	50%	0.87%	0.00%	9.58%
2018	1.72	8,325	0	8,325	7,605	720	55%	0.00%	0.00%	8.65%
2019	1.89	8,971	0	8,971	8,398	574	54%	0.00%	0.00%	6.40%
2020	1.88	9,395	0	9,395	8,855	540	57%	0.00%	0.00%	5.75%
2021	1.95	10,300	0	10,300	9,614	686	60%	0.00%	0.00%	6.66%
2022	2.25	11,482	0	11,482	10,808	674	58%	0.00%	0.00%	5.87%
2023	2.29	12,297	0	12,297	11,561	736	61%	0.00%	0.00%	5.99%

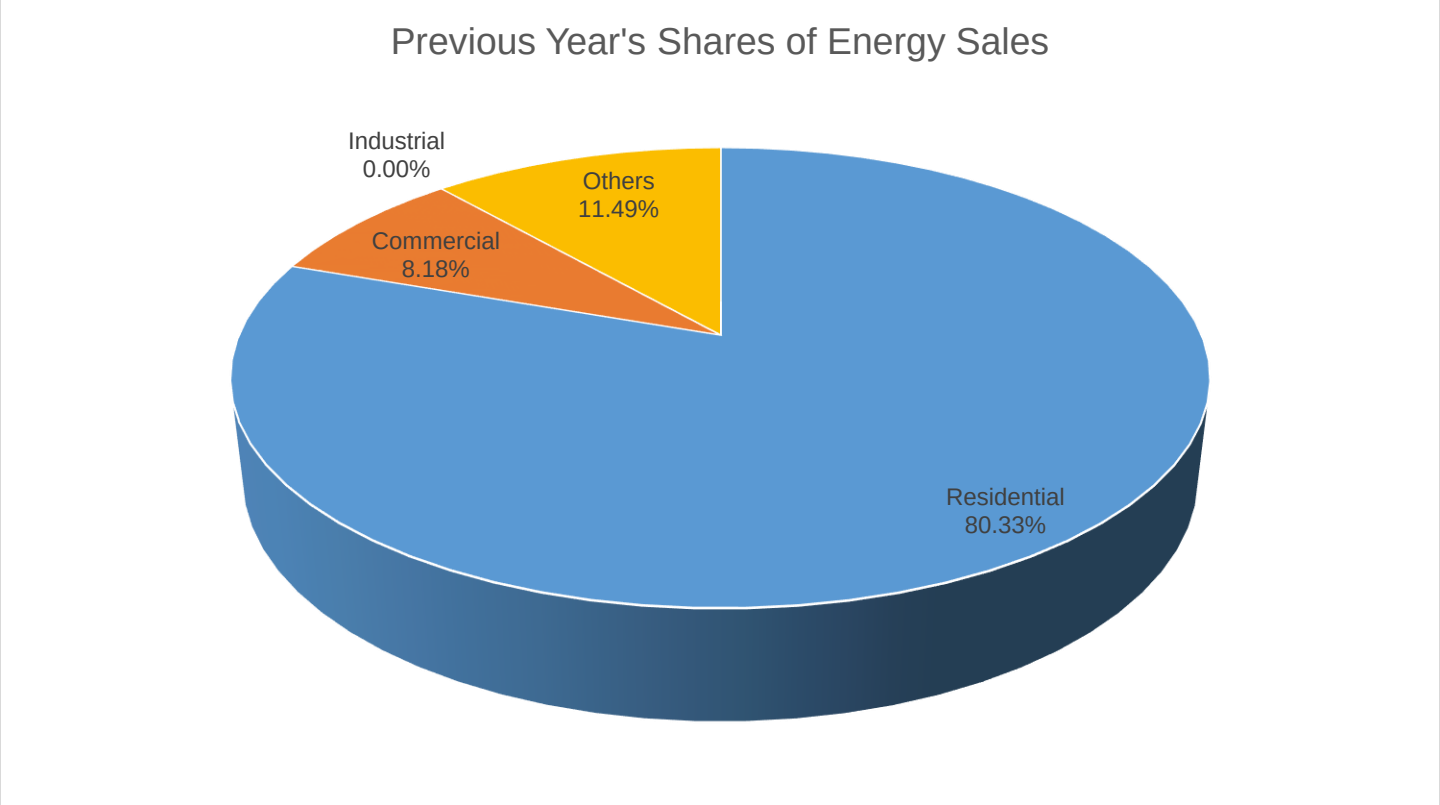
Peak Demand increased from 2.25 MW in 2022 to 2.29 MW in 2023 at a rate of 1.78% while MWh Offtake (Purchased) also increased from 11,482 MWh in 2022 to 12,297 MWh in 2023 at a rate of 7.10%. Within the same period 2022-2023, Load Factor ranged from 58% to 61%. MWh Input and Output also increased from year 2022 to year 2023. Continuous effort of the government to electrify far-flung areas contributed to such increase in MWh Input and Output.



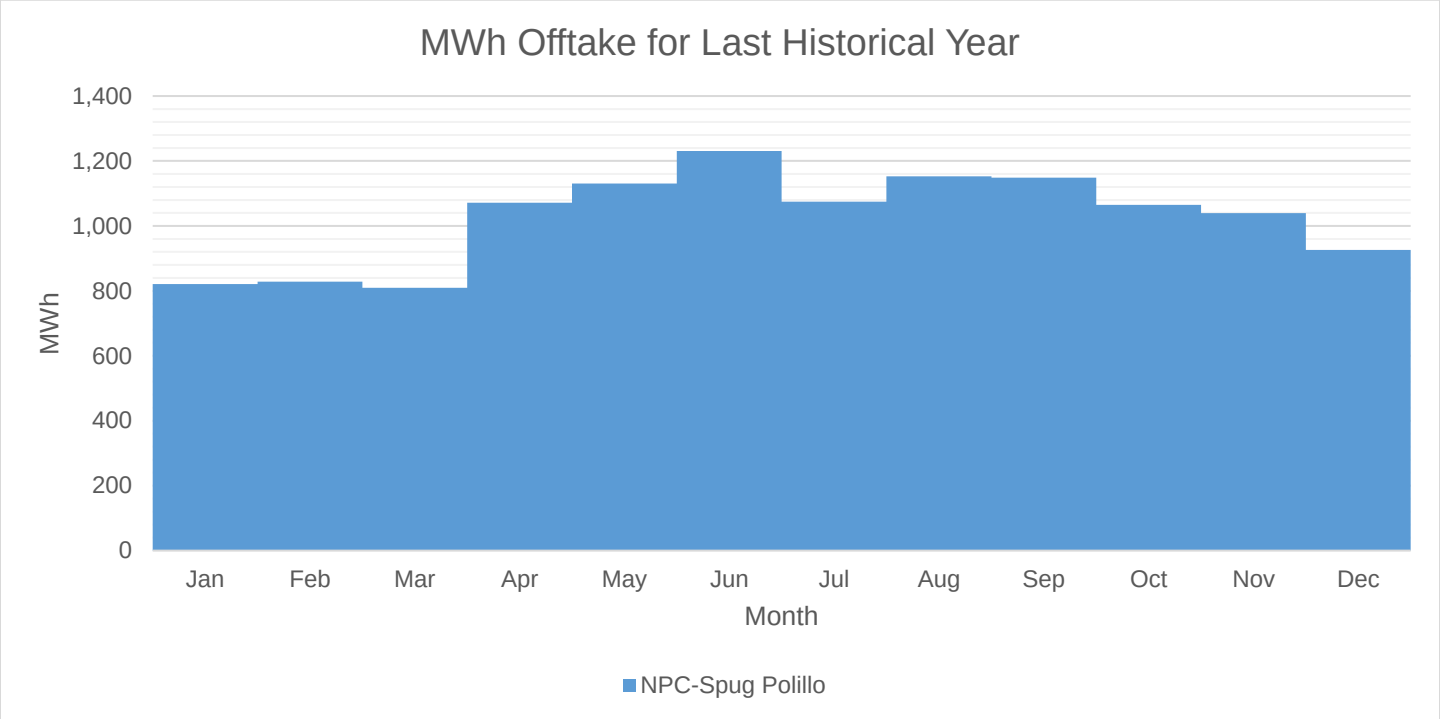
MWh Output (Sales) increased from year 2022 to year 2023 at a rate of 6.96%, while MWh System Loss also increased from 5.87% to 5.99%. All Energy (kWh) consumption (Own Use) by QUEZELCO II is already included in the Commercial Sales of the Cooperative.



Historically, System Loss ranged from 5.75% to 18.20%. System Loss registered high at 18.20% on year 2006 because at that time, electric distribution system going to Panukulan, Quezon is only single phase with undersized conductors resulting to low voltage and unbalanced system. Also, there was ongoing electrification to different barangays of Polillo, Panukulan, and Burdeos resulted to additional line losses for Polillo Island Electric Distribution System.

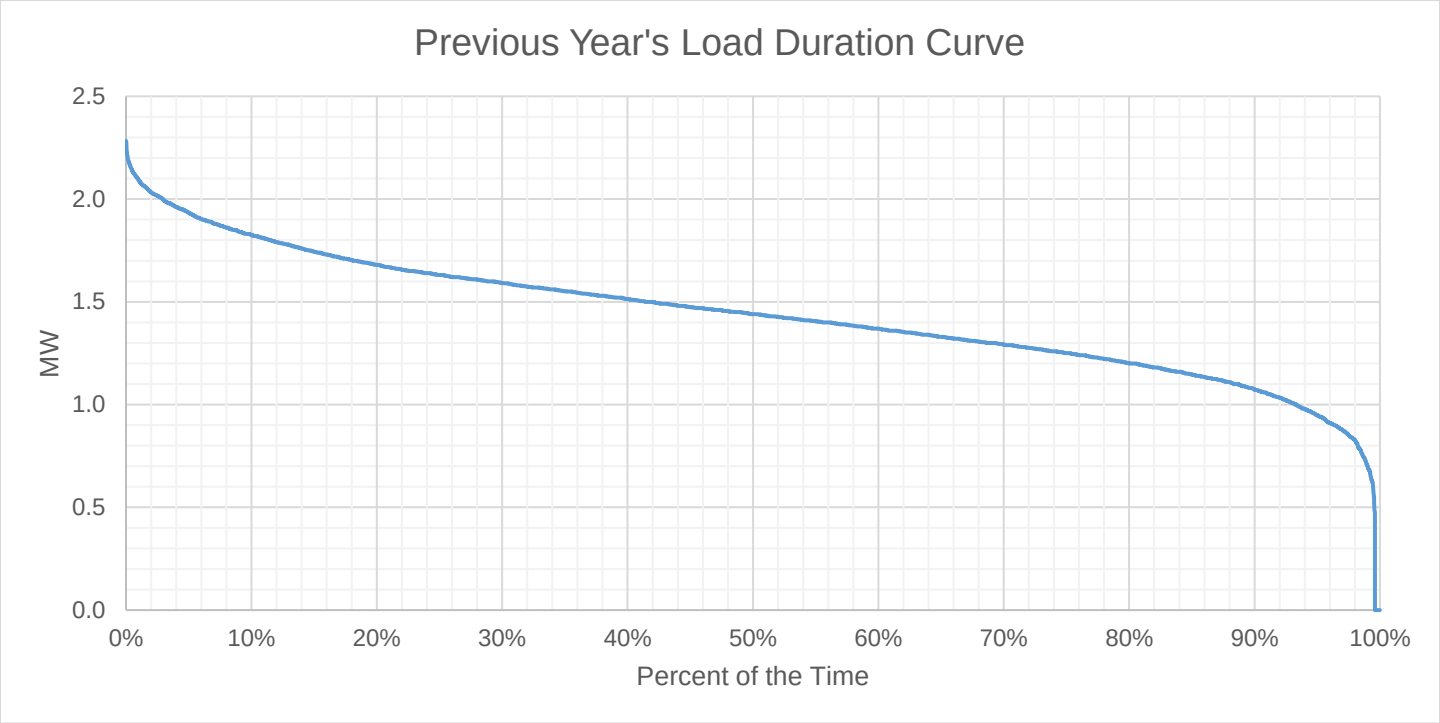


Residential customers account for the bulk of energy sales at 80.33% due to the high number of connections. In addition, Commercial customers accounted for only 8.18% of energy sales due to few numbers of connections. There are no Industrial customers in Polillo Group of Islands.

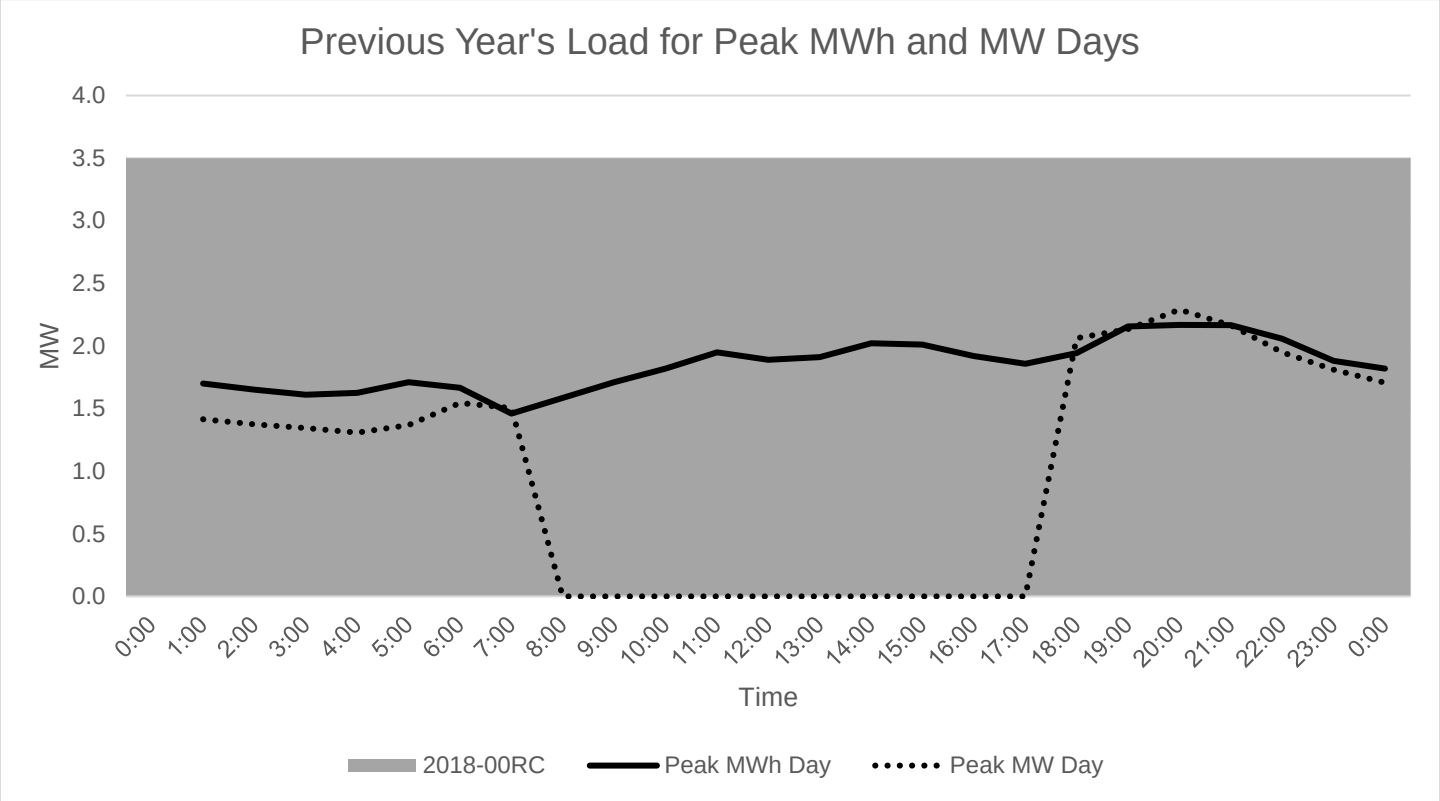


NPC operated its remaining months from January to May for the year 2019, then Renesons Energy Polillo started their operation as the new Power Plant Provider of Quezelco II. MWh Offtake is at its peak in the month of June because of the dry season.

Previous Year's Load Profile

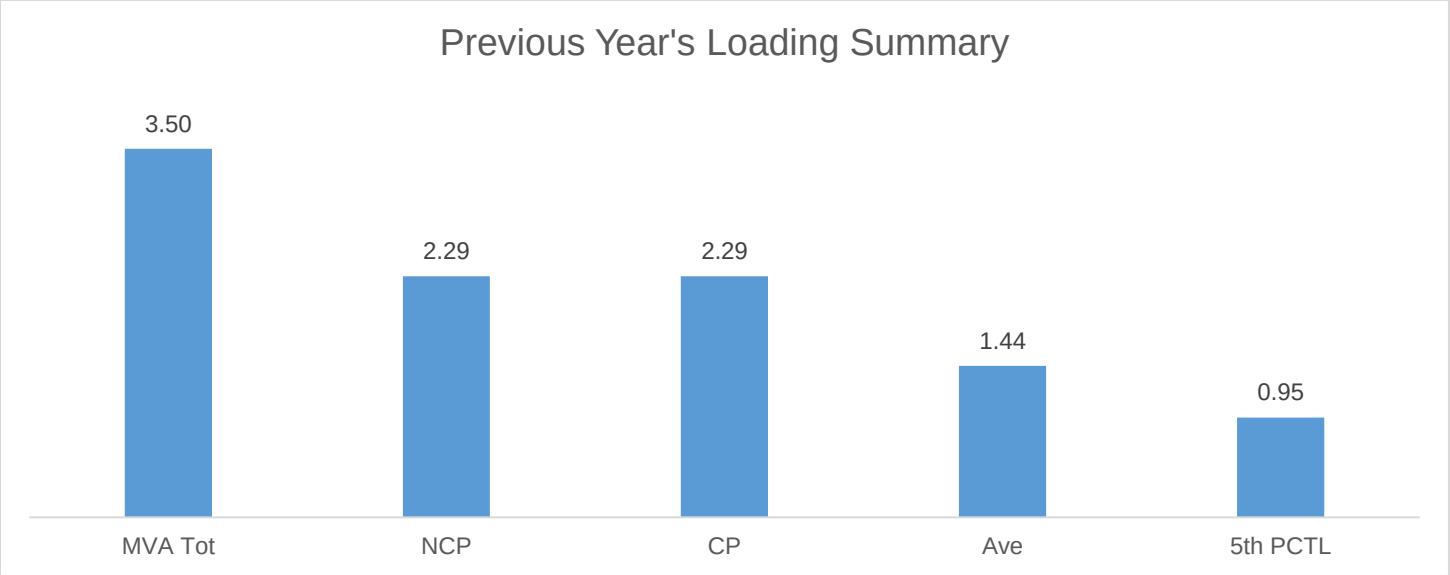


Based on the Load Duration Curve, the minimum load is 0 MW and the maximum load is 2.29 MW for the last historical year.



Peak MW occurred on July 17, 2023 with 2.290 MW. During this date, there was a scheduled power plant maintenance shutdown from 8:00 AM to 5:00 PM. Peak daily MWh occurred on June 15, 2023 with 44.29 MWh. High temperature weather condition has a major impact for increase in MW and MWh during these periods. As shown in the Load Curves, the available supply is higher than the Peak Demand. As of to date, Renesons Energy Polillo has an installed capacity of 3.5 MVA Diesel

Power. The Biomass Power Plant is scheduled to operate by year 2025 for an additional capacity of 1.5 MVA.



The Non-coincident Peak Demand is 2.29 MW, which is around 65.43% of the total plant capacity of 3.5 MVA. The load factor or the ratio between the Average Load of 1.44 MW and the Non-coincident Peak Demand is 62.80%. A safe estimate of the true minimum load is the fifth percentile load of 0.95 MW which is 41.40% of the Non-coincident Peak Demand.

Forecasted Consumption Data

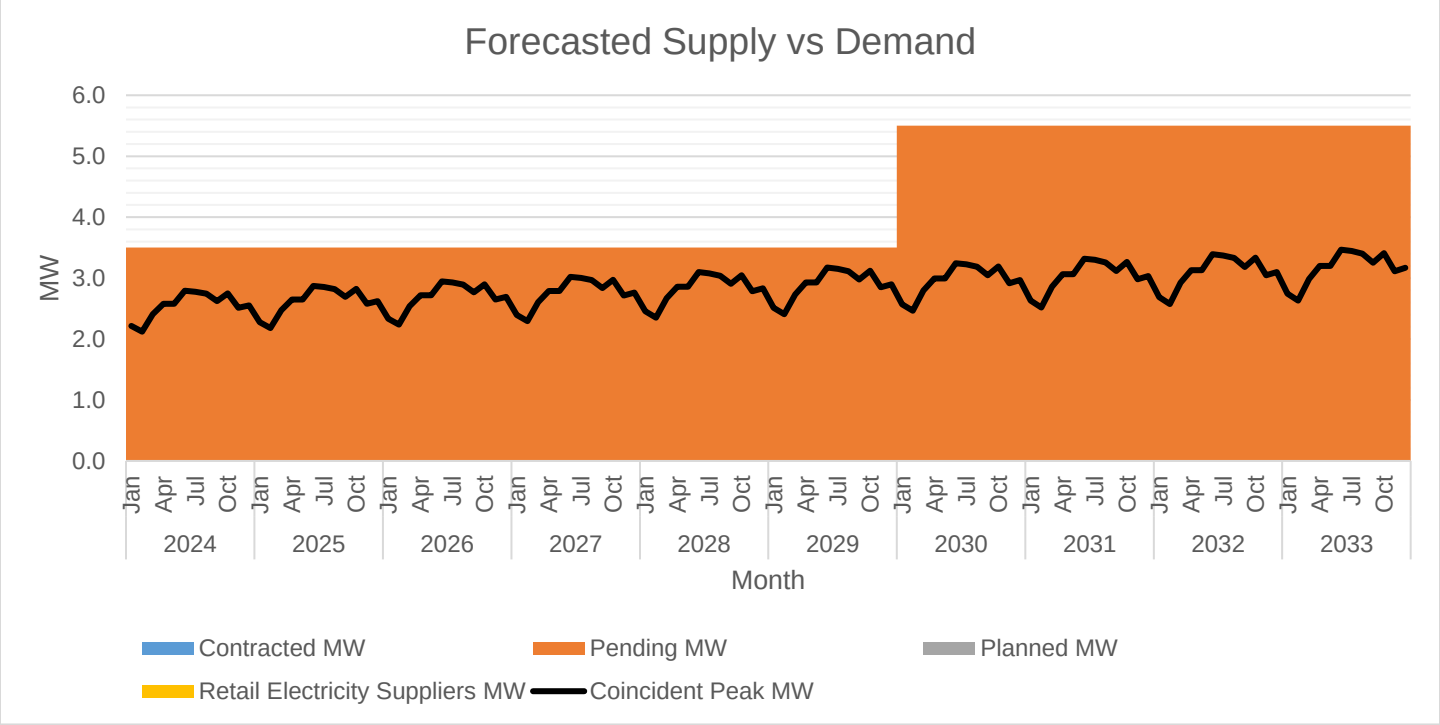
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2024	Jan	2.21	0.00	3.50	0.000		0%	158%	1.29
	Feb	2.12	0.00	3.50	0.000		0%	165%	1.38
	Mar	2.41	0.00	3.50	0.000		0%	145%	1.09
	Apr	2.58	0.00	3.50	0.000		0%	136%	0.92
	May	2.58	0.00	3.50	0.000		0%	136%	0.92
	Jun	2.79	0.00	3.50	0.000		0%	125%	0.71
	Jul	2.78	0.00	3.50	0.000		0%	126%	0.72
	Aug	2.74	0.00	3.50	0.000		0%	128%	0.76
	Sep	2.62	0.00	3.50	0.000		0%	133%	0.88
	Oct	2.75	0.00	3.50	0.000		0%	127%	0.75
	Nov	2.51	0.00	3.50	0.000		0%	139%	0.99
	Dec	2.55	0.00	3.50	0.000		0%	137%	0.95
2025	Jan	2.27	0.00	3.50	0.000		0%	154%	1.23
	Feb	2.18	0.00	3.50	0.000		0%	161%	1.32
	Mar	2.47	0.00	3.50	0.000		0%	142%	1.03
	Apr	2.65	0.00	3.50	0.000		0%	132%	0.85
	May	2.65	0.00	3.50	0.000		0%	132%	0.85
	Jun	2.87	0.00	3.50	0.000		0%	122%	0.63
	Jul	2.85	0.00	3.50	0.000		0%	123%	0.65
	Aug	2.82	0.00	3.50	0.000		0%	124%	0.68
	Sep	2.69	0.00	3.50	0.000		0%	130%	0.81
	Oct	2.82	0.00	3.50	0.000		0%	124%	0.68
	Nov	2.58	0.00	3.50	0.000		0%	136%	0.92
	Dec	2.62	0.00	3.50	0.000		0%	133%	0.88
2026	Jan	2.33	0.00	3.50	0.000		0%	150%	1.17
	Feb	2.24	0.00	3.50	0.000		0%	157%	1.26
	Mar	2.54	0.00	3.50	0.000		0%	138%	0.96
	Apr	2.72	0.00	3.50	0.000		0%	129%	0.78
	May	2.72	0.00	3.50	0.000		0%	129%	0.78

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Jun	2.95	0.00	3.50	0.000		0%	119%	0.55
	Jul	2.93	0.00	3.50	0.000		0%	120%	0.57
	Aug	2.89	0.00	3.50	0.000		0%	121%	0.61
	Sep	2.77	0.00	3.50	0.000		0%	127%	0.73
	Oct	2.90	0.00	3.50	0.000		0%	121%	0.60
	Nov	2.65	0.00	3.50	0.000		0%	132%	0.85
	Dec	2.69	0.00	3.50	0.000		0%	130%	0.81
2027	Jan	2.39	0.00	3.50	0.000		0%	146%	1.11
	Feb	2.29	0.00	3.50	0.000		0%	153%	1.21
	Mar	2.60	0.00	3.50	0.000		0%	134%	0.90
	Apr	2.79	0.00	3.50	0.000		0%	125%	0.71
	May	2.79	0.00	3.50	0.000		0%	125%	0.71
	Jun	3.02	0.00	3.50	0.000		0%	116%	0.48
	Jul	3.00	0.00	3.50	0.000		0%	117%	0.50
	Aug	2.97	0.00	3.50	0.000		0%	118%	0.53
	Sep	2.84	0.00	3.50	0.000		0%	123%	0.66
	Oct	2.97	0.00	3.50	0.000		0%	118%	0.53
	Nov	2.72	0.00	3.50	0.000		0%	129%	0.78
	Dec	2.76	0.00	3.50	0.000		0%	127%	0.74
2028	Jan	2.45	0.00	3.50	0.000		0%	143%	1.05
	Feb	2.35	0.00	3.50	0.000		0%	149%	1.15
	Mar	2.67	0.00	3.50	0.000		0%	131%	0.83
	Apr	2.86	0.00	3.50	0.000		0%	122%	0.64
	May	2.86	0.00	3.50	0.000		0%	122%	0.64
	Jun	3.10	0.00	3.50	0.000		0%	113%	0.40
	Jul	3.08	0.00	3.50	0.000		0%	114%	0.42
	Aug	3.04	0.00	3.50	0.000		0%	115%	0.46
	Sep	2.91	0.00	3.50	0.000		0%	120%	0.59
	Oct	3.05	0.00	3.50	0.000		0%	115%	0.45
	Nov	2.78	0.00	3.50	0.000		0%	126%	0.72
	Dec	2.83	0.00	3.50	0.000		0%	124%	0.67

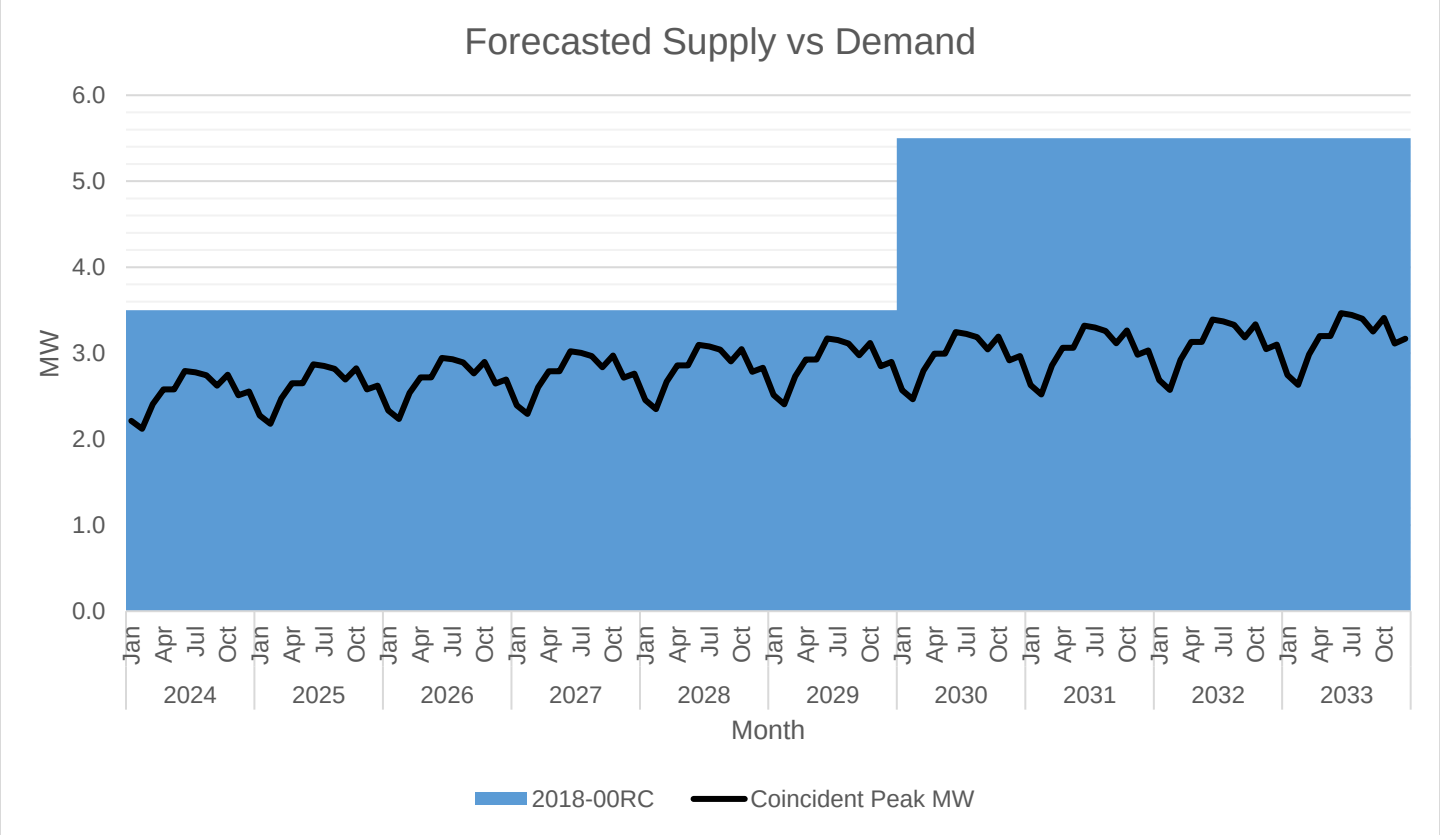
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2029	Jan	2.51	0.00	3.50	0.000		0%	139%	0.99
	Feb	2.41	0.00	3.50	0.000		0%	145%	1.09
	Mar	2.73	0.00	3.50	0.000		0%	128%	0.77
	Apr	2.93	0.00	3.50	0.000		0%	120%	0.57
	May	2.93	0.00	3.50	0.000		0%	120%	0.57
	Jun	3.17	0.00	3.50	0.000		0%	110%	0.33
	Jul	3.15	0.00	3.50	0.000		0%	111%	0.35
	Aug	3.11	0.00	3.50	0.000		0%	112%	0.39
	Sep	2.98	0.00	3.50	0.000		0%	118%	0.52
	Oct	3.12	0.00	3.50	0.000		0%	112%	0.38
	Nov	2.85	0.00	3.50	0.000		0%	123%	0.65
	Dec	2.90	0.00	3.50	0.000		0%	121%	0.60
2030	Jan	2.57	0.00	5.50	0.000		0%	214%	2.93
	Feb	2.46	0.00	5.50	0.000		0%	223%	3.04
	Mar	2.80	0.00	5.50	0.000		0%	197%	2.70
	Apr	3.00	0.00	5.50	0.000		0%	184%	2.50
	May	3.00	0.00	5.50	0.000		0%	184%	2.50
	Jun	3.25	0.00	5.50	0.000		0%	169%	2.25
	Jul	3.23	0.00	5.50	0.000		0%	171%	2.27
	Aug	3.19	0.00	5.50	0.000		0%	173%	2.31
	Sep	3.05	0.00	5.50	0.000		0%	181%	2.45
	Oct	3.19	0.00	5.50	0.000		0%	172%	2.31
	Nov	2.92	0.00	5.50	0.000		0%	189%	2.58
	Dec	2.97	0.00	5.50	0.000		0%	185%	2.53
2031	Jan	2.63	0.00	5.50	0.000		0%	209%	2.87
	Feb	2.52	0.00	5.50	0.000		0%	218%	2.98
	Mar	2.86	0.00	5.50	0.000		0%	192%	2.64
	Apr	3.06	0.00	5.50	0.000		0%	180%	2.44
	May	3.06	0.00	5.50	0.000		0%	180%	2.44
	Jun	3.32	0.00	5.50	0.000		0%	166%	2.18
	Jul	3.30	0.00	5.50	0.000		0%	167%	2.20

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Aug	3.26	0.00	5.50	0.000		0%	169%	2.24
	Sep	3.11	0.00	5.50	0.000		0%	177%	2.39
	Oct	3.26	0.00	5.50	0.000		0%	168%	2.24
	Nov	2.98	0.00	5.50	0.000		0%	184%	2.52
	Dec	3.03	0.00	5.50	0.000		0%	181%	2.47
2032	Jan	2.69	0.00	5.50	0.000		0%	205%	2.81
	Feb	2.57	0.00	5.50	0.000		0%	214%	2.93
	Mar	2.92	0.00	5.50	0.000		0%	188%	2.58
	Apr	3.13	0.00	5.50	0.000		0%	176%	2.37
	May	3.13	0.00	5.50	0.000		0%	176%	2.37
	Jun	3.39	0.00	5.50	0.000		0%	162%	2.11
	Jul	3.37	0.00	5.50	0.000		0%	163%	2.13
	Aug	3.33	0.00	5.50	0.000		0%	165%	2.17
	Sep	3.18	0.00	5.50	0.000		0%	173%	2.32
	Oct	3.34	0.00	5.50	0.000		0%	165%	2.16
	Nov	3.05	0.00	5.50	0.000		0%	180%	2.45
	Dec	3.10	0.00	5.50	0.000		0%	177%	2.40
2033	Jan	2.75	0.00	5.50	0.000		0%	200%	2.75
	Feb	2.63	0.00	5.50	0.000		0%	209%	2.87
	Mar	2.99	0.00	5.50	0.000		0%	184%	2.51
	Apr	3.20	0.00	5.50	0.000		0%	172%	2.30
	May	3.20	0.00	5.50	0.000		0%	172%	2.30
	Jun	3.47	0.00	5.50	0.000		0%	159%	2.03
	Jul	3.44	0.00	5.50	0.000		0%	160%	2.06
	Aug	3.40	0.00	5.50	0.000		0%	162%	2.10
	Sep	3.25	0.00	5.50	0.000		0%	169%	2.25
	Oct	3.41	0.00	5.50	0.000		0%	161%	2.09
	Nov	3.11	0.00	5.50	0.000		0%	177%	2.39
	Dec	3.17	0.00	5.50	0.000		0%	174%	2.33

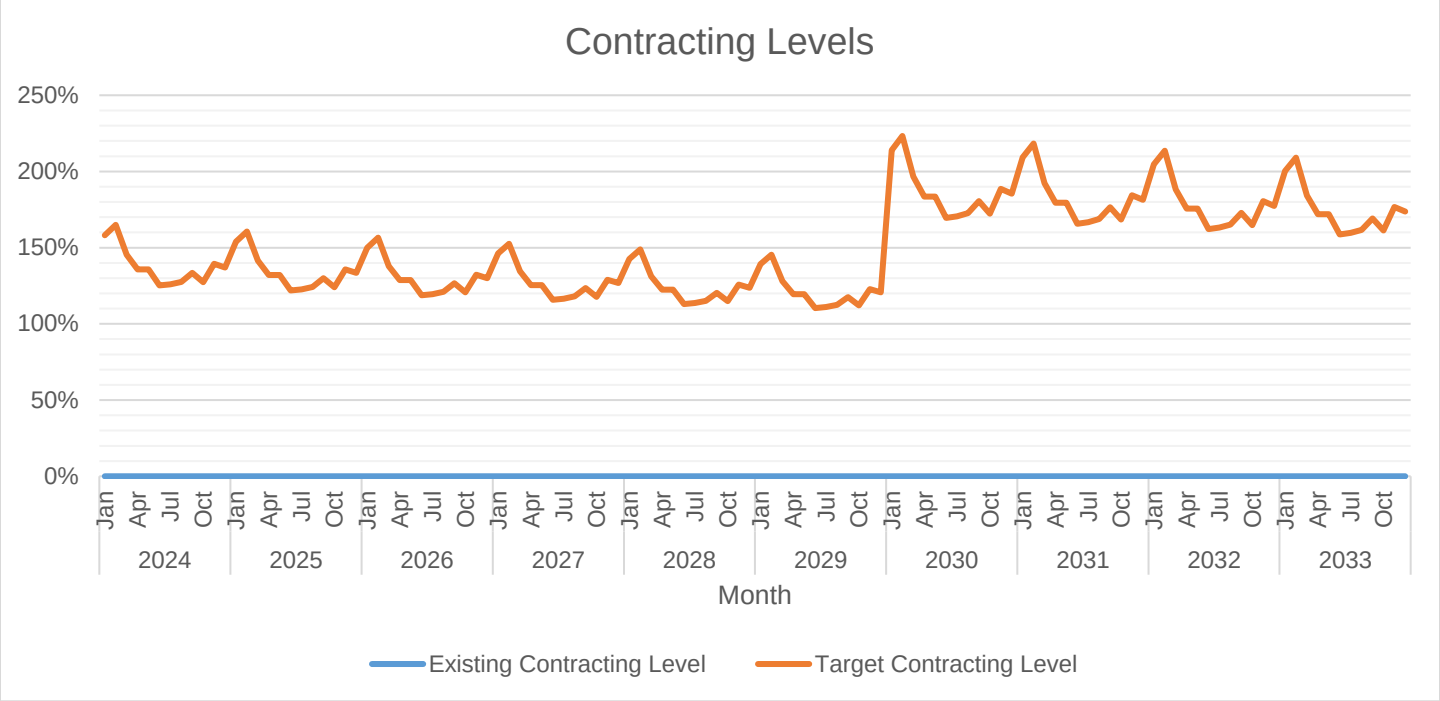
The Peak Demand was forecasted using Linear Trend Method of Forecasting. Quezelco II uses Historical Data on this process. Peak Demand was forecasted to occur on the month of June due to summer season. Monthly Peak Demand is at its lowest on the month of February due to rainy season. In general, Peak Demand is expected to grow at an average rate of 2.42% annually.



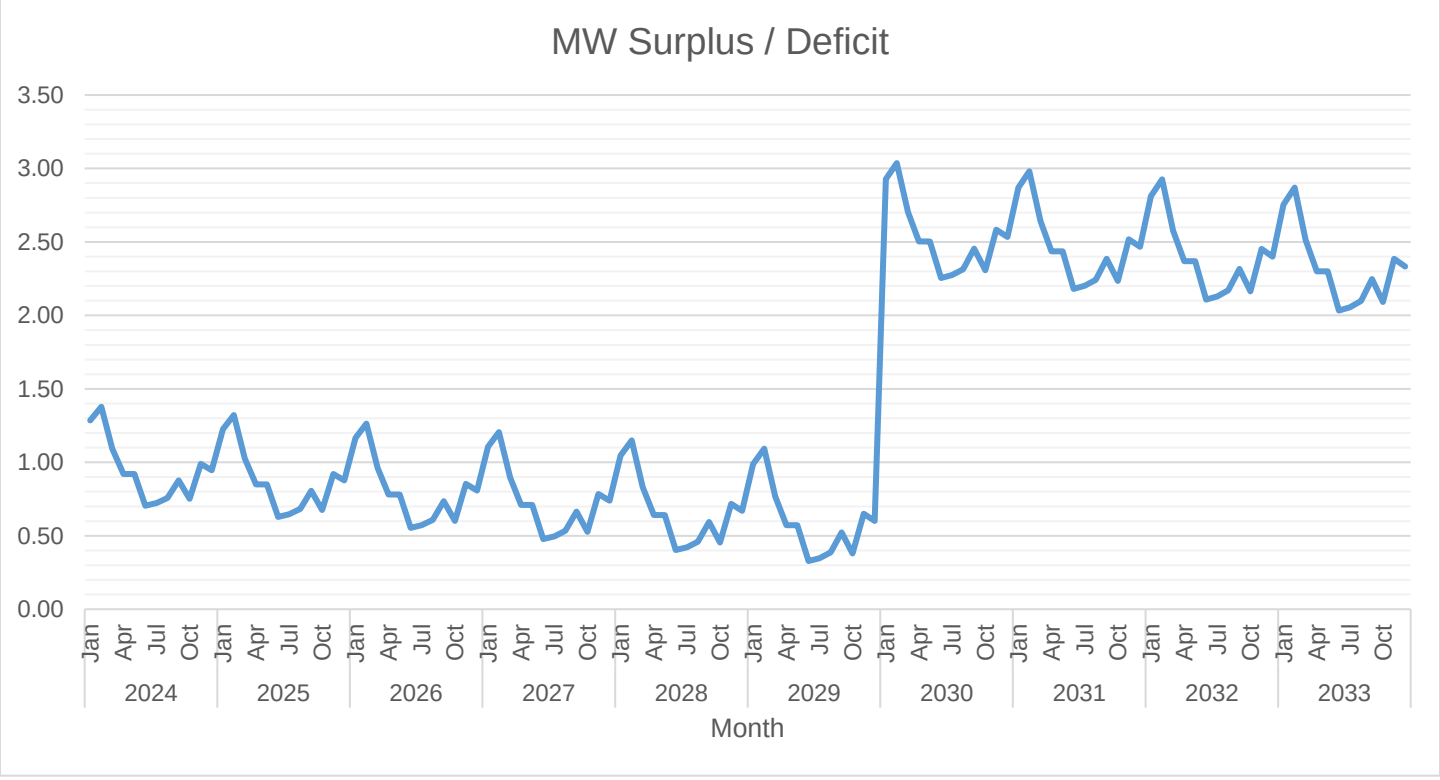
The installed plant capacity is sufficient enough to serve the peak demand of the Island. The available supply is generally above the Peak Demand. This is because of the new Power Plant's installed standby generators.



The available supply is 3.5MW from year 2024 up to year 2029. If the load of the Island reaches to 80% of the installed capacity, additional 2 MW will be added. This is included in Quezelco II PSA with Renesons Energy Polillo.



The highest target contracting level is 223% from the peak demand which is expected to occur in February 2030. The lowest target contracting level is 110% which is expected to occur in June 2029. However, on these figures the Renesons Energy Polillo were using modular generator sets to address the efficiency issues due to demand related operations.



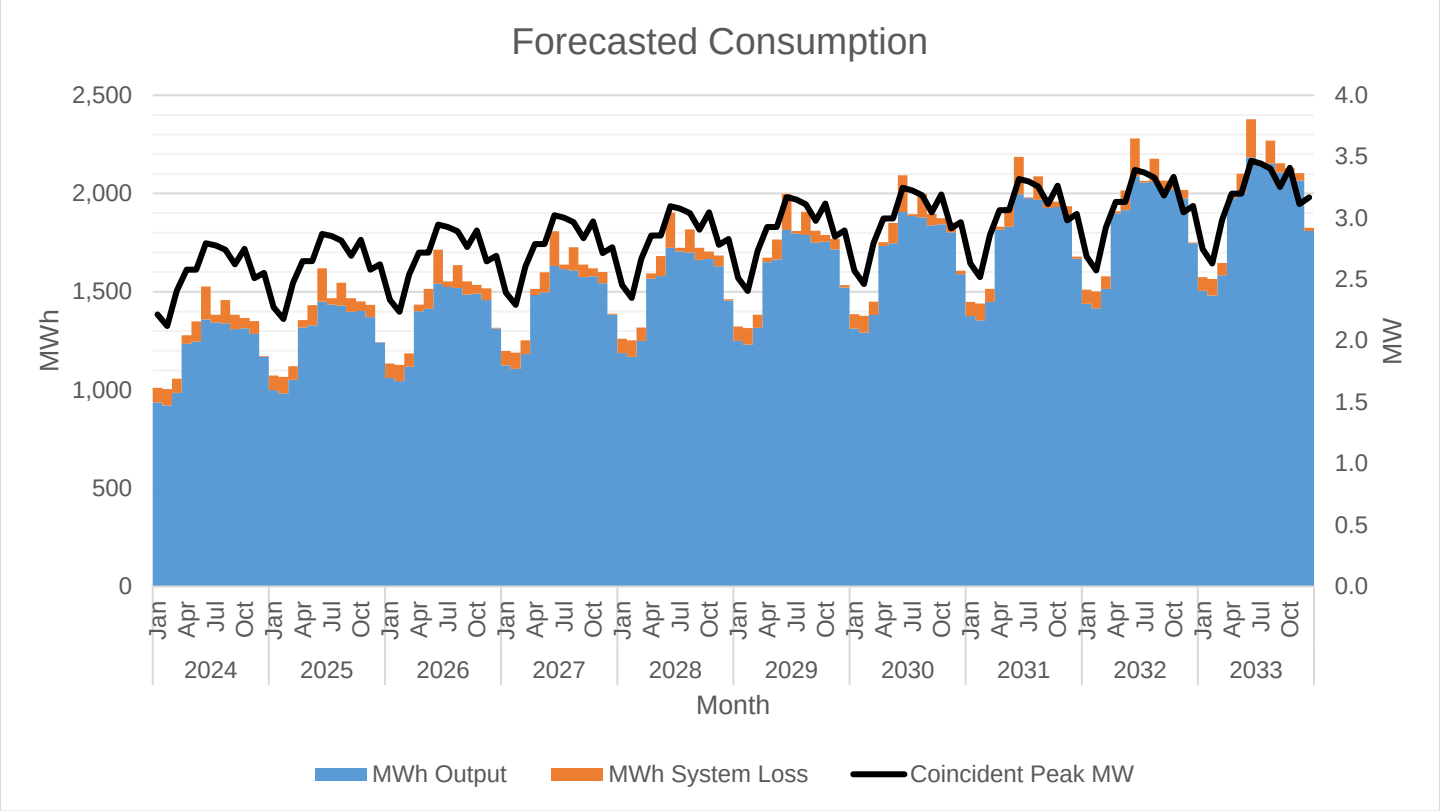
The highest surplus is 3.04 MW which is expected to occur in the month of February 2030. The lowest surplus is 0.33 MW which is expected to occur in the month of June 2029. However, on these figures the Renesons Energy Polillo were using modular generator sets to address the efficiency issues due to demand related operations.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	1,011.35	936	75	0.00%	7.42%
	Feb	1,005.09	922	83	0.00%	8.30%
	Mar	1,057.22	986	72	0.00%	6.77%
	Apr	1,278.26	1,235	43	0.00%	3.36%
	May	1,349.16	1,246	103	0.00%	7.66%
	Jun	1,526.40	1,359	168	0.00%	10.99%
	Jul	1,382.52	1,344	38	0.00%	2.77%
	Aug	1,457.17	1,339	118	0.00%	8.08%
	Sep	1,382.94	1,310	72	0.00%	5.24%
	Oct	1,367.09	1,314	53	0.00%	3.86%
	Nov	1,351.24	1,285	66	0.00%	4.91%
	Dec	1,172.33	1,169	3	0.00%	0.26%
2025	Jan	1,073.13	999	74	0.00%	6.90%
	Feb	1,066.49	983	83	0.00%	7.78%
	Mar	1,121.81	1,052	70	0.00%	6.24%
	Apr	1,356.35	1,318	38	0.00%	2.81%
	May	1,431.58	1,329	102	0.00%	7.13%
	Jun	1,619.66	1,450	170	0.00%	10.49%
	Jul	1,466.98	1,434	32	0.00%	2.22%
	Aug	1,546.20	1,429	117	0.00%	7.56%
	Sep	1,467.43	1,398	69	0.00%	4.70%
	Oct	1,450.61	1,402	48	0.00%	3.32%
	Nov	1,433.79	1,371	63	0.00%	4.37%
	Dec	1,243.95	1,242	2	0.00%	0.18%
2026	Jan	1,135.52	1,062	74	0.00%	6.48%
	Feb	1,128.50	1,045	83	0.00%	7.37%
	Mar	1,187.03	1,118	69	0.00%	5.82%
	Apr	1,435.21	1,401	34	0.00%	2.37%
	May	1,514.81	1,413	102	0.00%	6.72%
	Jun	1,713.82	1,541	173	0.00%	10.09%
	Jul	1,552.27	1,525	28	0.00%	1.78%
	Aug	1,636.09	1,519	117	0.00%	7.15%
	Sep	1,552.74	1,486	66	0.00%	4.28%
	Oct	1,534.95	1,491	44	0.00%	2.89%
	Nov	1,517.15	1,457	60	0.00%	3.94%
	Dec	1,316.27	1,313	3	0.00%	0.24%
2027	Jan	1,198.23	1,125	73	0.00%	6.13%
	Feb	1,190.82	1,107	84	0.00%	7.02%
	Mar	1,252.58	1,184	69	0.00%	5.47%
	Apr	1,514.47	1,484	30	0.00%	2.01%
	May	1,598.47	1,497	102	0.00%	6.37%
	Jun	1,808.46	1,632	176	0.00%	9.75%
	Jul	1,637.99	1,615	23	0.00%	1.41%

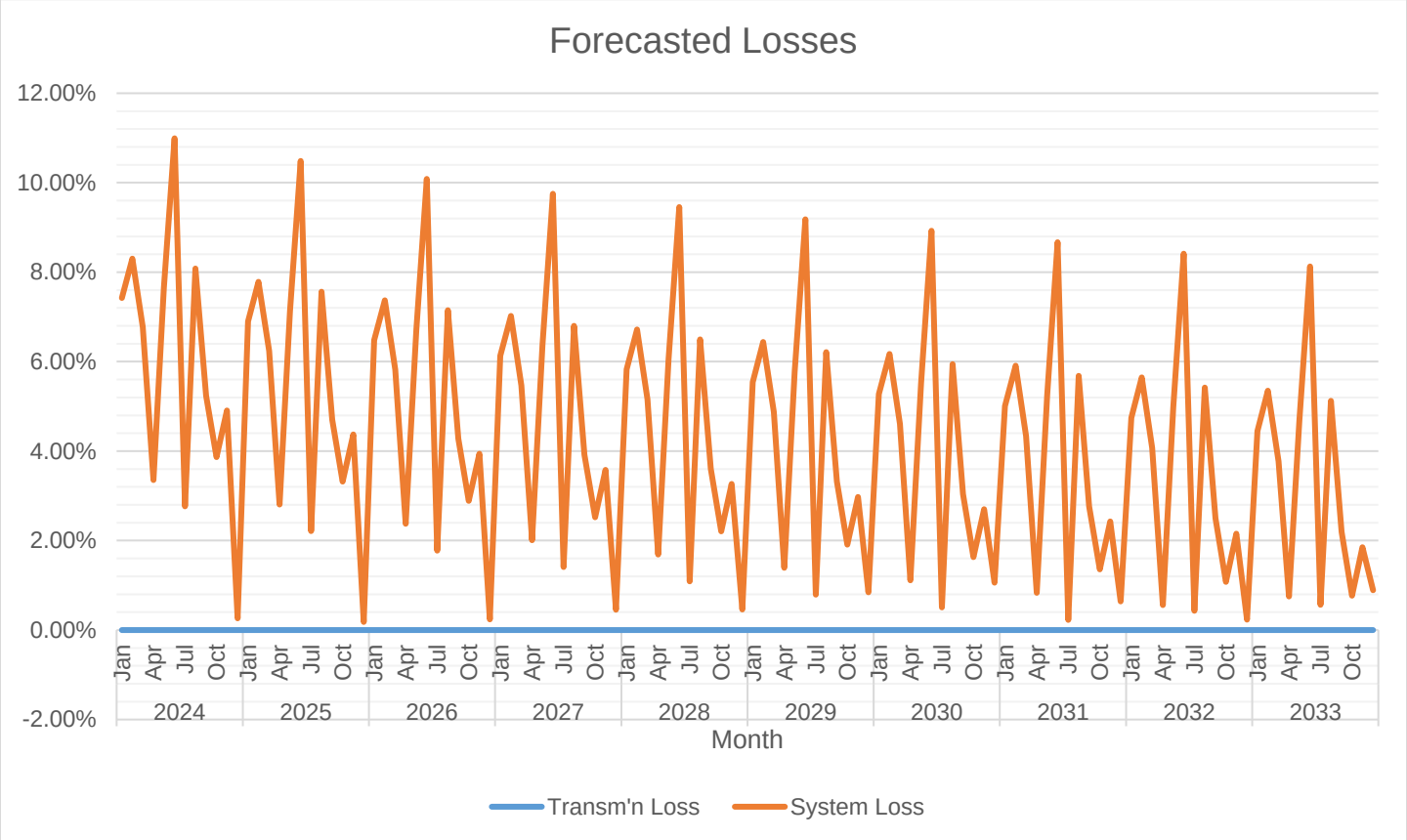
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Aug	1,726.44	1,609	117	0.00%	6.80%
	Sep	1,638.49	1,574	64	0.00%	3.92%
	Oct	1,619.71	1,579	41	0.00%	2.52%
	Nov	1,600.94	1,544	57	0.00%	3.58%
	Dec	1,388.96	1,383	6	0.00%	0.46%
2028	Jan	1,261.04	1,188	73	0.00%	5.83%
	Feb	1,253.24	1,169	84	0.00%	6.72%
	Mar	1,318.24	1,250	68	0.00%	5.16%
	Apr	1,593.85	1,567	27	0.00%	1.69%
	May	1,682.25	1,580	102	0.00%	6.06%
	Jun	1,903.26	1,723	180	0.00%	9.46%
	Jul	1,723.85	1,705	19	0.00%	1.09%
	Aug	1,816.93	1,699	118	0.00%	6.50%
	Sep	1,724.37	1,662	62	0.00%	3.61%
	Oct	1,704.61	1,667	38	0.00%	2.20%
	Nov	1,684.85	1,630	55	0.00%	3.27%
	Dec	1,461.76	1,455	7	0.00%	0.46%
2029	Jan	1,323.78	1,250	73	0.00%	5.54%
	Feb	1,315.59	1,231	85	0.00%	6.44%
	Mar	1,383.83	1,316	67	0.00%	4.88%
	Apr	1,673.15	1,650	23	0.00%	1.39%
	May	1,765.95	1,664	102	0.00%	5.78%
	Jun	1,997.95	1,814	183	0.00%	9.18%
	Jul	1,809.62	1,795	14	0.00%	0.79%
	Aug	1,907.33	1,789	119	0.00%	6.21%
	Sep	1,810.16	1,750	60	0.00%	3.32%
	Oct	1,789.42	1,755	34	0.00%	1.91%
	Nov	1,768.68	1,716	53	0.00%	2.98%
	Dec	1,534.49	1,522	13	0.00%	0.84%
2030	Jan	1,386.33	1,313	73	0.00%	5.27%
	Feb	1,377.75	1,293	85	0.00%	6.17%
	Mar	1,449.21	1,382	67	0.00%	4.60%
	Apr	1,752.21	1,733	19	0.00%	1.11%
	May	1,849.39	1,747	102	0.00%	5.51%
	Jun	2,092.36	1,906	187	0.00%	8.92%
	Jul	1,895.13	1,886	10	0.00%	0.51%
	Aug	1,997.46	1,879	119	0.00%	5.95%
	Sep	1,895.70	1,838	58	0.00%	3.04%
	Oct	1,873.97	1,843	31	0.00%	1.63%
	Nov	1,852.25	1,802	50	0.00%	2.70%
	Dec	1,607.00	1,590	17	0.00%	1.06%
2031	Jan	1,448.60	1,376	73	0.00%	5.01%
	Feb	1,439.64	1,355	85	0.00%	5.91%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Mar	1,514.31	1,449	66	0.00%	4.34%
	Apr	1,830.91	1,816	15	0.00%	0.83%
	May	1,932.46	1,831	101	0.00%	5.25%
	Jun	2,186.34	1,997	190	0.00%	8.67%
	Jul	1,980.25	1,976	5	0.00%	0.23%
	Aug	2,087.18	1,969	119	0.00%	5.68%
	Sep	1,980.85	1,926	55	0.00%	2.77%
	Oct	1,958.15	1,932	27	0.00%	1.36%
	Nov	1,935.45	1,888	47	0.00%	2.43%
	Dec	1,679.18	1,668	11	0.00%	0.64%
2032	Jan	1,510.51	1,439	72	0.00%	4.74%
	Feb	1,501.17	1,416	85	0.00%	5.65%
	Mar	1,579.03	1,515	64	0.00%	4.07%
	Apr	1,909.16	1,899	11	0.00%	0.56%
	May	2,015.05	1,915	100	0.00%	4.98%
	Jun	2,279.78	2,088	192	0.00%	8.41%
	Jul	2,064.89	2,056	9	0.00%	0.43%
	Aug	2,176.38	2,058	118	0.00%	5.42%
	Sep	2,065.51	2,014	52	0.00%	2.50%
	Oct	2,041.84	2,020	22	0.00%	1.08%
	Nov	2,018.17	1,975	43	0.00%	2.15%
	Dec	1,750.95	1,747	4	0.00%	0.23%
2033	Jan	1,575.07	1,505	70	0.00%	4.45%
	Feb	1,565.33	1,482	84	0.00%	5.35%
	Mar	1,646.52	1,584	62	0.00%	3.77%
	Apr	1,990.76	1,976	15	0.00%	0.75%
	May	2,101.18	2,003	98	0.00%	4.69%
	Jun	2,377.22	2,184	193	0.00%	8.13%
	Jul	2,153.14	2,141	12	0.00%	0.57%
	Aug	2,269.40	2,153	116	0.00%	5.12%
	Sep	2,153.79	2,107	47	0.00%	2.19%
	Oct	2,129.11	2,113	16	0.00%	0.77%
	Nov	2,104.43	2,066	39	0.00%	1.85%
	Dec	1,825.79	1,810	16	0.00%	0.89%

MWh Offtake was forecasted using Linear Trend Method of Forecasting based on Historical Data.
The assumed load factor is around 60.99% to 95.26%.



MWh Output (Sales) based on Quezelco II forecast was expected to grow at an average rate of 5.37% annually.



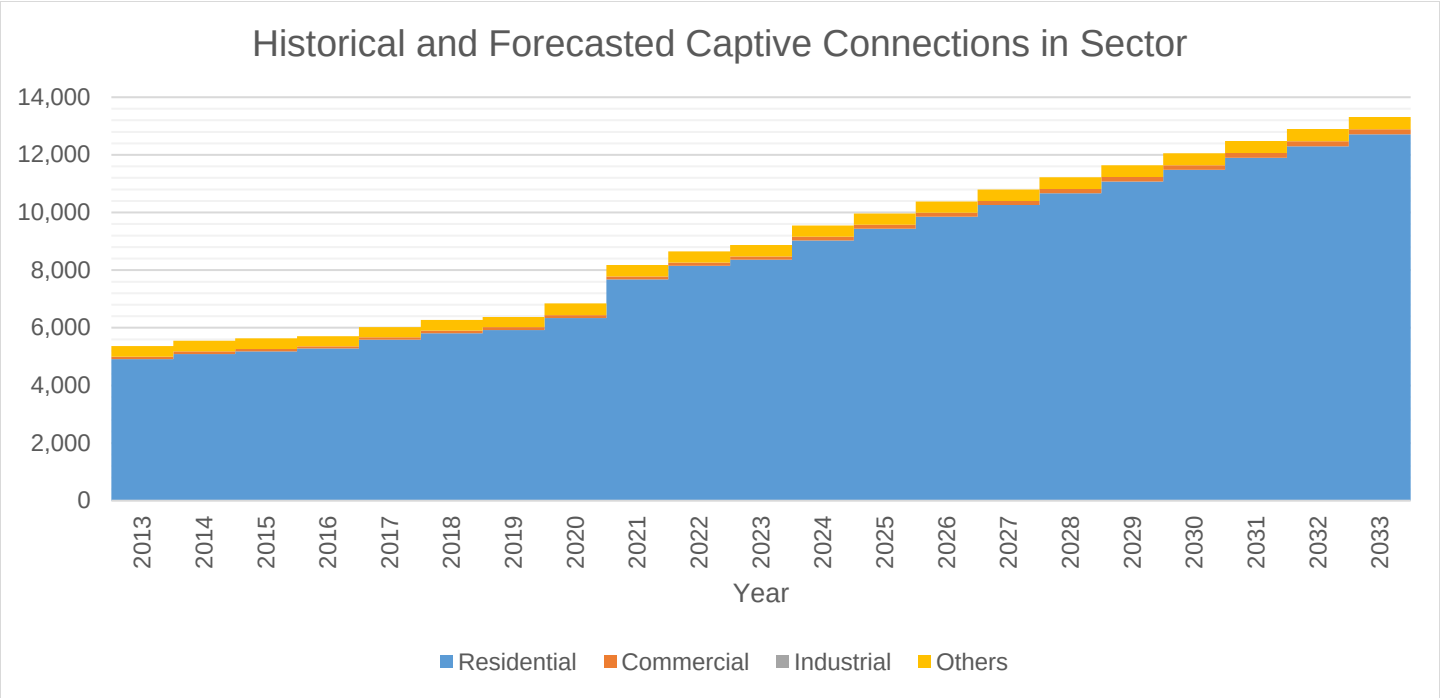
Annual System Loss is expected to range from 5.83% to 3.22%.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2018-00RC	Full Load	Other	2.00	15,341	5/24/2018	5/24/2041

The PSA with Renesons Energy Polillo filed with ERC under Case No. 2018-00RC was conducted through competitive bidding. It was selected to provide for base load requirements due to load characteristics of Quezelco II which is residential in nature.

Captive Customer Connections



For Polillo, Panukulan, and Burdeos, Quezon, the number of Residential connections is expected to grow at an average rate of 4.29% annually. Said customer class is expected to account for 68.73% of the total consumption.

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