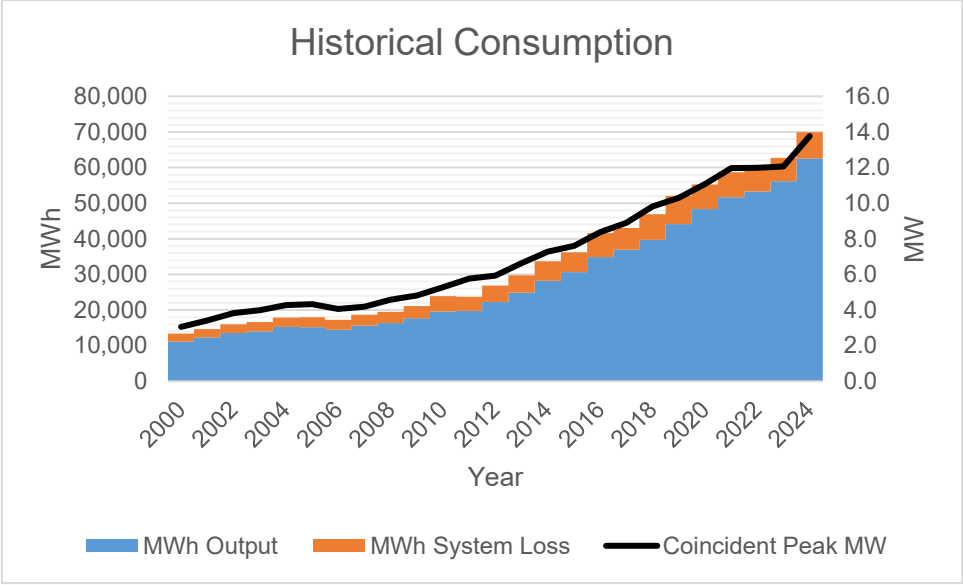
Power Supply Procurement Plan 2025

Quirino Electric Cooperative
(Quirelco)

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	3.05	13,382	0	13,382	11,096	2,286	50%	0.00%	0.00%	17.08%
2001	3.41	14,663	0	14,663	12,311	2,352	49%	0.00%	0.00%	16.04%
2002	3.82	15,982	0	15,982	13,585	2,396	48%	0.00%	0.00%	14.99%
2003	3.99	16,592	0	16,592	14,049	2,543	47%	0.00%	0.00%	15.33%
2004	4.28	17,908	0	17,908	15,282	2,626	48%	0.00%	0.00%	14.66%
2005	4.33	17,985	0	17,985	15,203	2,781	47%	0.00%	0.00%	15.46%
2006	4.05	17,271	0	17,271	14,444	2,828	49%	0.00%	0.00%	16.37%
2007	4.19	18,728	0	18,728	15,620	3,109	51%	0.00%	0.00%	16.60%
2008	4.59	19,450	0	19,450	16,390	3,061	48%	0.00%	0.00%	15.74%
2009	4.82	21,131	0	21,131	17,738	3,392	50%	0.00%	0.00%	16.05%
2010	5.28	23,941	0	23,941	19,575	4,367	52%	0.00%	0.00%	18.24%
2011	5.77	23,682	0	23,682	19,759	3,923	47%	0.00%	0.00%	16.56%
2012	5.93	26,835	0	26,835	22,304	4,531	52%	0.00%	0.00%	16.88%
2013	6.64	29,730	0	29,730	24,858	4,872	51%	0.00%	0.00%	16.39%
2014	7.27	33,699	0	33,699	28,258	5,441	53%	0.00%	0.00%	16.15%
2015	7.61	36,201	0	36,201	30,632	5,570	54%	0.00%	0.00%	15.39%
2016	8.38	41,565	0	41,565	34,897	6,668	57%	0.00%	0.00%	16.04%
2017	8.89	43,018	0	43,018	36,924	6,094	55%	0.00%	0.00%	14.17%
2018	9.81	46,880	0	46,880	39,689	7,191	55%	0.00%	0.00%	15.34%
2019	10.30	52,037	0	52,037	44,135	7,903	58%	0.00%	0.00%	15.19%
2020	11.07	55,296	55,296	55,296	48,378	6,918	57%	0.00%	0.00%	12.51%
2021	11.98	58,647	58,647	58,647	51,680	6,967	56%	0.00%	0.00%	11.88%
2022	11.99	59,641	59,641	59,641	53,280	6,361	57%	0.00%	0.00%	10.67%
2023	12.07	62,772	62,772	62,772	56,175	6,598	59%	0.00%	0.00%	10.51%
2024	13.77	69,959	61,737	69,959	62,531	7,428	58%	0.00%	0.00%	10.62%

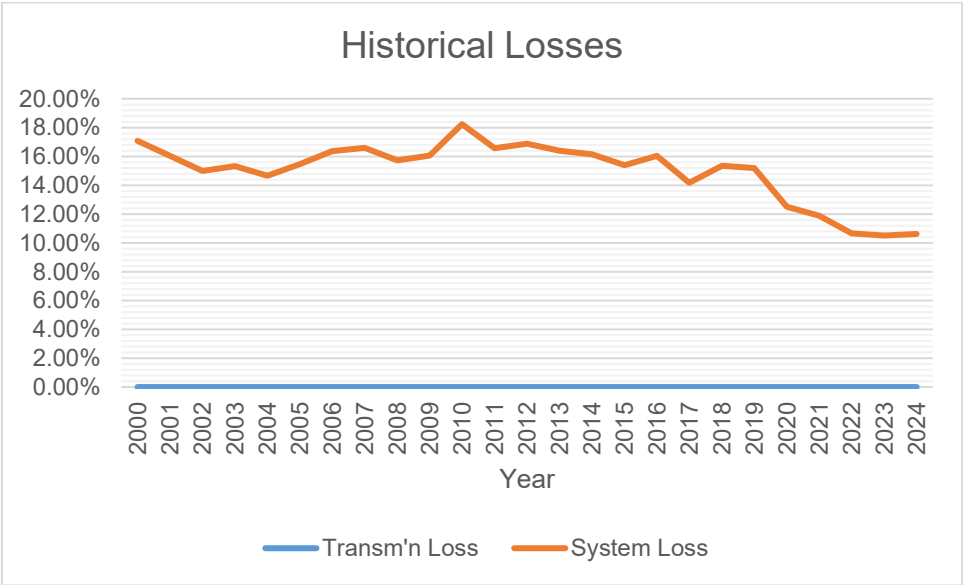
Peak Demand increased from 3.05 MW in year 2000 to 13.77 MW in year 2024 at an average rate of 6.58% per year due to increased load capacity mainly thru the entries of residential and other commercial establishments. MWh Offtake increased from 13,382 MWh in year 2000 to 69,959 MWh in 2024 at an average rate of 7.24% per year due to increase in residential connections. Within the same period, Load Factor ranged from 47% to 59%. There was an abrupt change in consumption on year 2015 to 2016 due to operation of numerous industrial facilities. There are no historical transmission losses since Quirelco does not own a high voltage transmission line.



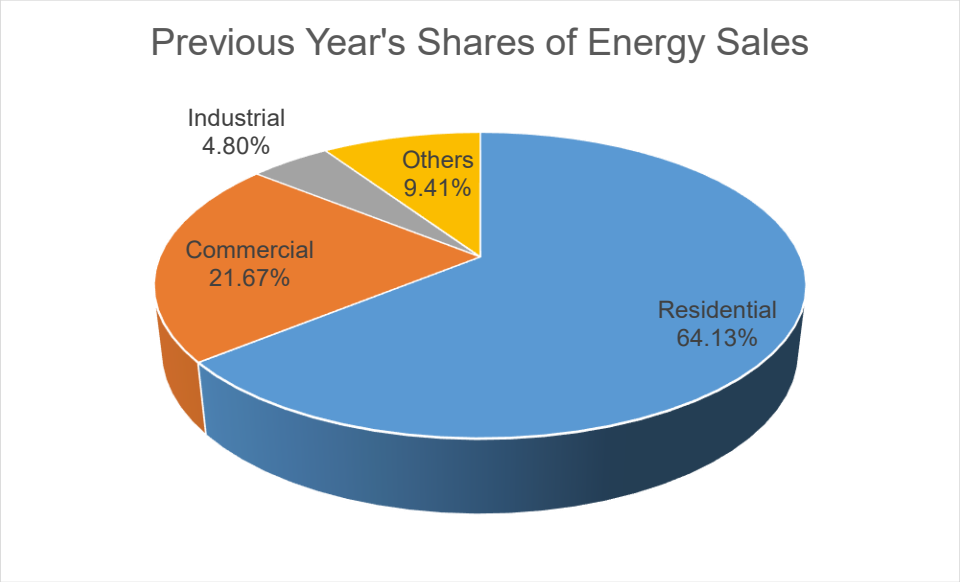
MWh Output increased from year 2000 to year 2024 at an average rate of 7.57%, while MWh System Loss increased at a rate of 5.48% within the same period.

There is a noticeable inconsistency with the MWh system loss for the 2025 PSPP submission as compared with the earlier PSPP submissions. For this year's PSPP submission, the historical MWh losses were broken down into Feeder Technical Loss, SubTx & SS Technical Loss and Non-technical Loss. Unlike the earlier submissions, all MWh losses were accounted for into the Feeder Technical Loss category. This is because of the recently implemented system loss segregation structure of Quirelco using the JAED software, from a private service provider, to address the energy loss segregation problem. Feeder Technical Loss, SubTx & SS Technical Loss and Non-technical Loss values in the historical years were allocated from the result of the simulations using the abovementioned software.

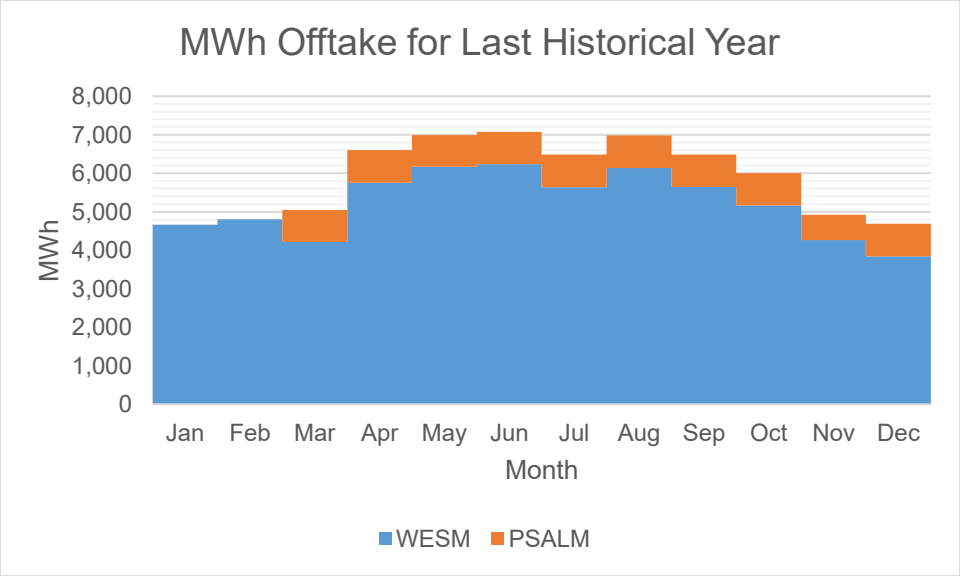
Moreover, the formula for the "MWh Discrepancy" in the PSPP Excel/Hist Sheet has been corrected to include S4R as Seller, Own Use and Switched Contestable Customers. With the revision of the formula, historical data on "MWh Output/MWh Sales (Old)/Commercial" and "MWh Output/MWh Sales (New)/Low Voltage" and other data relevant to them have been modified to reflect actual data.



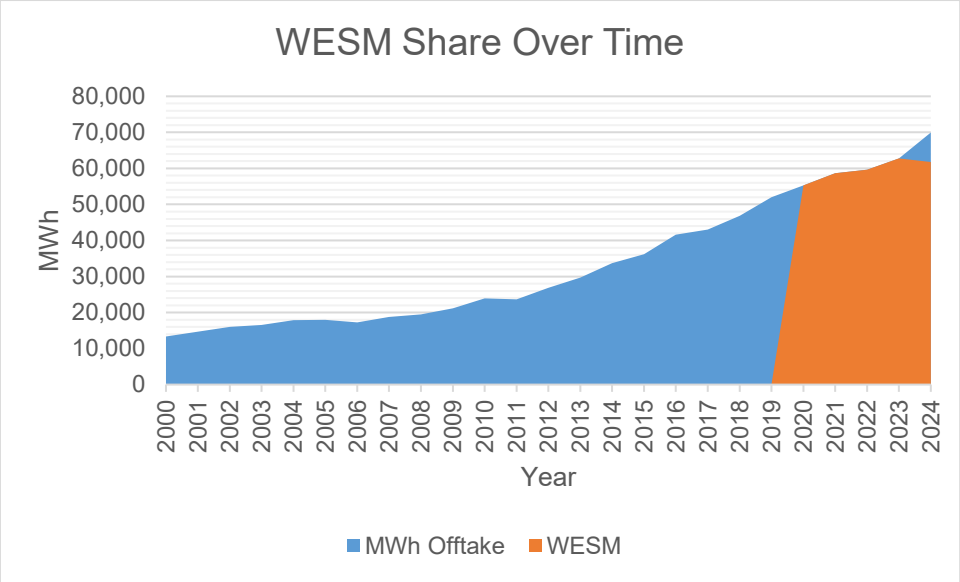
Historically, System Loss ranged from 10.51% to 18.24%. System Loss peaked at 18.24% on year 2010 because of overloaded capacity of power transformer and recorded increased reactive power loss on the last quarter of the same year. There are no historical transmission losses since Quirelco does not own a high voltage transmission line.



Residential customers account for the bulk of energy sales at 64.13% due to the high number of connections. In contrast, industrial customers accounted for only 4.80% of energy sales due to the low number of connections.

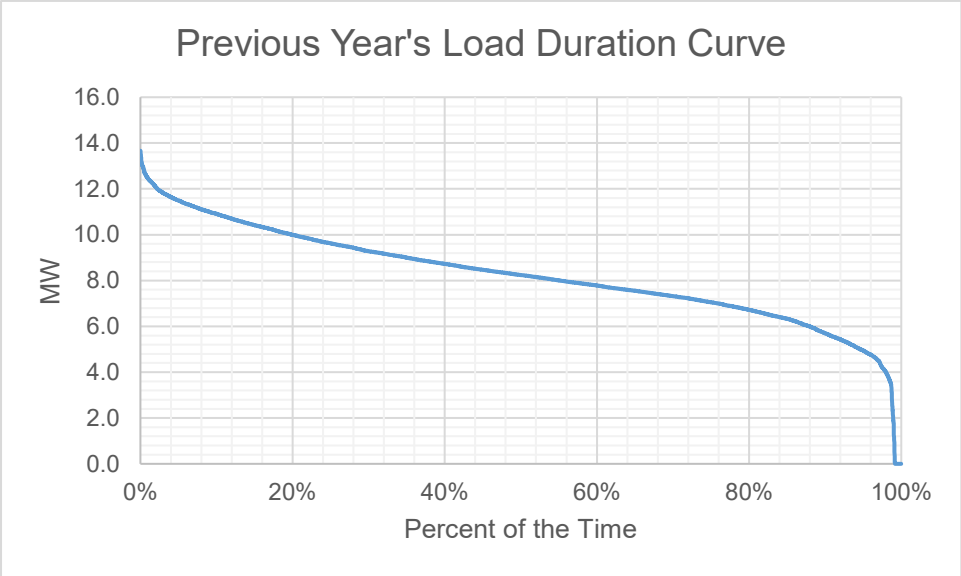


For 2024, the total Offtake for the last historical year is equal to the total quantity consumption of Quirelco. Around 88.38% of the total energy offtake were supplied by the Wholesale Electricity Spot Market (WESM) and the remaining 11.62% came from the Contract for the Supply of Electric Energy (CSEE) with the Power Sector Assets and Liabilities Management Corporation (PSALM).

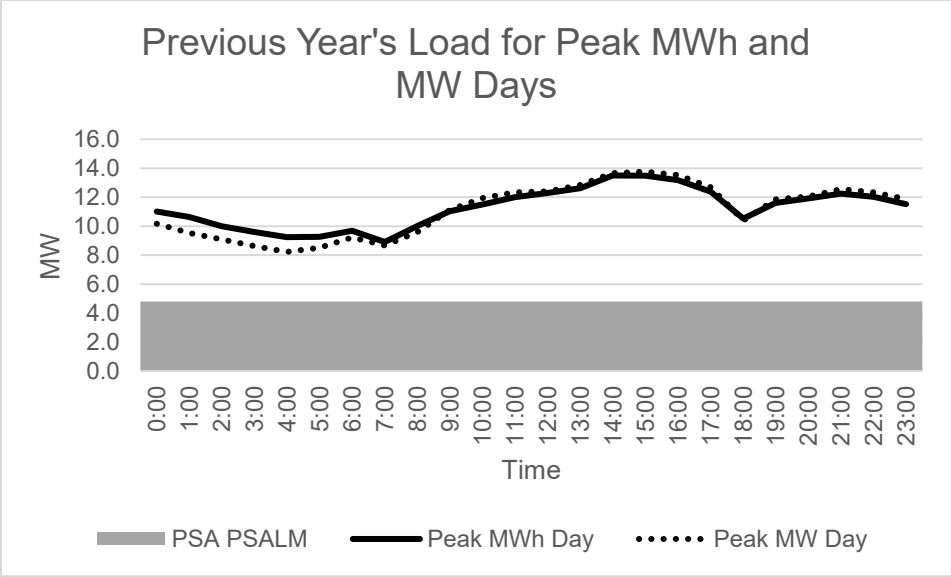


WESM Offtake increased from 55,296 MWh in 2020 to 61,737 MWh in 2024 at a rate of 2.84% per year due to the expired power supply agreement with SN Aboitiz Power, Inc. since 2019. The net WESM transaction is zero from 2000 to 2019 because Quirelco had had firm power supply agreements previously.

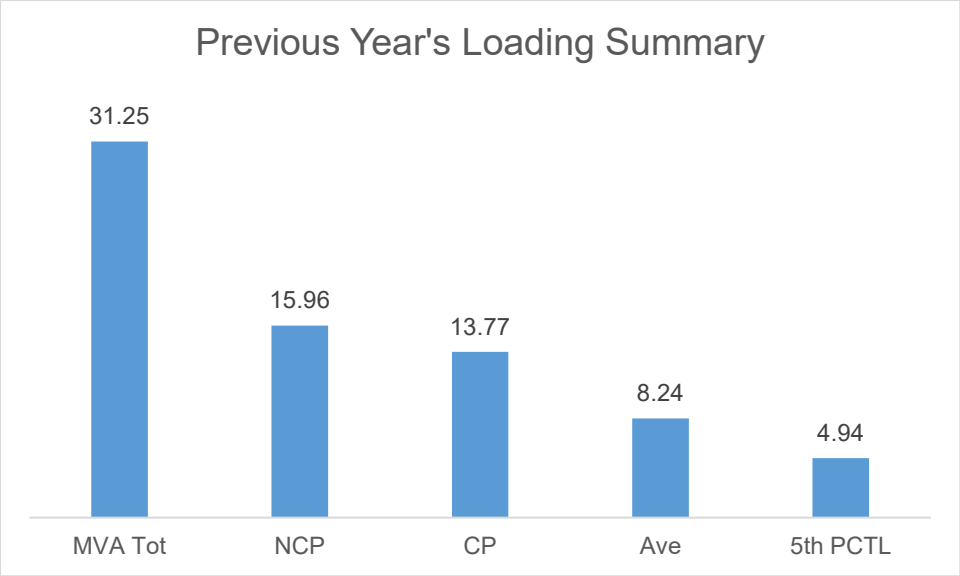
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 0 MW. However, disregarding supply and distribution system abnormalities or outliers, the approximate minimum load at normal operations is 4.94 MW which occurred on 22 February 2024 and the maximum load is 13.77 MW which occurred on 6 May 2024 for the last historical year.



Peak MW occurred on May 6, 2024 and peak daily MWh occurred on May 7, 2024 mainly due to the high demand on low voltage customers, particularly industrial plants like MJBJ Egg Hatchery and several concrete batching plants. As shown in the Load Curves, the available supply is lower than the Peak Demand.



Compared with previous DDP submissions, this year's submission has considered the 25% additional emergency capacity of Quirelco's power transformers hence the discrepancy.

The Non-coincident Peak Demand is 15.96 MW, which is around 51.07% of the total substation capacity of 31.25 MVA at a power factor of 99.56%. The load factor or the ratio between the Average Load of 8.24 MW and the Non-coincident Peak Demand is 51.63%. A safe estimate of the true minimum load is the fifth percentile load of 4.94 MW which is 30.95% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
Cajel SS	12.5	8.693
Aglipay SS	6.25	2.730
Maddela SS	12.5	4.536

Cajel Substation is loaded a 69.55% of its emergency capacity. This impending loading problem will be solved by the commissioning of an additional substation to cater the impending overloading problem.

Forecasted Consumption Data

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2025	Jan	10.17	0.00	4.80	0.000	0%	47%	-5.37
	Feb	10.01	0.00	4.80	0.000	0%	48%	-5.21
	Mar	11.28	0.00	4.80	0.000	0%	43%	-6.48
	Apr	11.68	0.00	4.80	0.000	0%	41%	-6.88
	May	12.59	0.00	4.80	0.000	0%	38%	-7.79
	Jun	13.02	0.00	4.80	0.000	0%	37%	-8.22
	Jul	12.71	0.00	4.80	0.000	0%	38%	-7.91
	Aug	12.73	0.00	4.80	0.000	0%	38%	-7.93
	Sep	12.58	0.00	4.80	0.000	0%	38%	-7.78
	Oct	12.32	0.00	4.80	0.000	0%	39%	-7.52
	Nov	11.50	0.00	4.80	0.000	0%	42%	-6.70
	Dec	11.10	0.00	4.80	0.000	0%	43%	-6.30
2026	Jan	10.51	0.00	0.00	3.000	0%	29%	-7.51
	Feb	10.34	0.00	0.00	3.000	0%	29%	-7.34
	Mar	11.65	0.00	0.00	3.000	0%	26%	-8.65
	Apr	12.07	0.00	0.00	3.000	0%	25%	-9.07
	May	13.01	0.00	0.00	3.000	0%	23%	-10.01
	Jun	13.46	0.00	0.00	3.000	0%	22%	-10.46
	Jul	13.13	0.00	0.00	3.000	0%	23%	-10.13
	Aug	13.15	0.00	0.00	3.000	0%	23%	-10.15
	Sep	13.00	0.00	0.00	3.000	0%	23%	-10.00
	Oct	12.74	0.00	0.00	3.000	0%	24%	-9.74
	Nov	11.88	0.00	0.00	3.000	0%	25%	-8.88
	Dec	11.47	0.00	0.00	3.000	0%	26%	-8.47
2027	Jan	10.84	0.00	0.00	10.000	0%	92%	-0.84
	Feb	10.66	0.00	0.00	10.000	0%	94%	-0.66
	Mar	12.02	0.00	0.00	10.000	0%	83%	-2.02
	Apr	12.44	0.00	0.00	10.000	0%	80%	-2.44
	May	13.42	0.00	0.00	10.000	0%	75%	-3.42

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Jun	13.88	0.00	0.00	10.000	0%	72%	-3.88
	Jul	13.54	0.00	0.00	10.000	0%	74%	-3.54
	Aug	13.56	0.00	0.00	10.000	0%	74%	-3.56
	Sep	13.41	0.00	0.00	10.000	0%	75%	-3.41
	Oct	13.13	0.00	0.00	10.000	0%	76%	-3.13
	Nov	12.25	0.00	0.00	10.000	0%	82%	-2.25
	Dec	11.82	0.00	0.00	10.000	0%	85%	-1.82
2028	Jan	11.15	0.00	0.00	10.000	0%	90%	-1.15
	Feb	10.97	0.00	0.00	10.000	0%	91%	-0.97
	Mar	12.36	0.00	0.00	10.000	0%	81%	-2.36
	Apr	12.80	0.00	0.00	10.000	0%	78%	-2.80
	May	13.81	0.00	0.00	10.000	0%	72%	-3.81
	Jun	14.28	0.00	0.00	10.000	0%	70%	-4.28
	Jul	13.93	0.00	0.00	10.000	0%	72%	-3.93
	Aug	13.96	0.00	0.00	10.000	0%	72%	-3.96
	Sep	13.80	0.00	0.00	10.000	0%	72%	-3.80
	Oct	13.51	0.00	0.00	10.000	0%	74%	-3.51
	Nov	12.60	0.00	0.00	10.000	0%	79%	-2.60
	Dec	12.17	0.00	0.00	10.000	0%	82%	-2.17
2029	Jan	11.45	0.00	0.00	13.600	0%	119%	2.15
	Feb	11.27	0.00	0.00	13.600	0%	121%	2.33
	Mar	12.70	0.00	0.00	13.600	0%	107%	0.90
	Apr	13.15	0.00	0.00	13.600	0%	103%	0.45
	May	14.18	0.00	0.00	13.600	0%	96%	-0.58
	Jun	14.67	0.00	0.00	13.600	0%	93%	-1.07
	Jul	14.31	0.00	0.00	13.600	0%	95%	-0.71
	Aug	14.33	0.00	0.00	13.600	0%	95%	-0.73
	Sep	14.17	0.00	0.00	13.600	0%	96%	-0.57
	Oct	13.88	0.00	0.00	13.600	0%	98%	-0.28
	Nov	12.95	0.00	0.00	13.600	0%	105%	0.65
	Dec	12.50	0.00	0.00	13.600	0%	109%	1.10

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2030	Jan	11.75	0.00	0.00	14.600	0%	124%	2.85
	Feb	11.56	0.00	0.00	14.600	0%	126%	3.04
	Mar	13.02	0.00	0.00	14.600	0%	112%	1.58
	Apr	13.49	0.00	0.00	14.600	0%	108%	1.11
	May	14.54	0.00	0.00	14.600	0%	100%	0.06
	Jun	15.04	0.00	0.00	14.600	0%	97%	-0.44
	Jul	14.68	0.00	0.00	14.600	0%	99%	-0.08
	Aug	14.70	0.00	0.00	14.600	0%	99%	-0.10
	Sep	14.53	0.00	0.00	14.600	0%	100%	0.07
	Oct	14.23	0.00	0.00	14.600	0%	103%	0.37
	Nov	13.28	0.00	0.00	14.600	0%	110%	1.32
	Dec	12.82	0.00	0.00	14.600	0%	114%	1.78
2031	Jan	12.03	0.00	0.00	14.600	0%	121%	2.57
	Feb	11.84	0.00	0.00	14.600	0%	123%	2.76
	Mar	13.34	0.00	0.00	14.600	0%	109%	1.26
	Apr	13.81	0.00	0.00	14.600	0%	106%	0.79
	May	14.89	0.00	0.00	14.600	0%	98%	-0.29
	Jun	15.41	0.00	0.00	14.600	0%	95%	-0.81
	Jul	15.03	0.00	0.00	14.600	0%	97%	-0.43
	Aug	15.06	0.00	0.00	14.600	0%	97%	-0.46
	Sep	14.88	0.00	0.00	14.600	0%	98%	-0.28
	Oct	14.58	0.00	0.00	14.600	0%	100%	0.02
	Nov	13.60	0.00	0.00	14.600	0%	107%	1.00
	Dec	13.12	0.00	0.00	14.600	0%	111%	1.48
2032	Jan	12.31	0.00	0.00	14.600	0%	119%	2.29
	Feb	12.11	0.00	0.00	14.600	0%	121%	2.49
	Mar	13.64	0.00	0.00	14.600	0%	107%	0.96
	Apr	14.13	0.00	0.00	14.600	0%	103%	0.47
	May	15.24	0.00	0.00	14.600	0%	96%	-0.64
	Jun	15.76	0.00	0.00	14.600	0%	93%	-1.16
	Jul	15.38	0.00	0.00	14.600	0%	95%	-0.78

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Aug	15.40	0.00	0.00	14.600	0%	95%	-0.80
	Sep	15.22	0.00	0.00	14.600	0%	96%	-0.62
	Oct	14.91	0.00	0.00	14.600	0%	98%	-0.31
	Nov	13.91	0.00	0.00	14.600	0%	105%	0.69
	Dec	13.43	0.00	0.00	14.600	0%	109%	1.17
2033	Jan	12.57	0.00	0.00	15.600	0%	124%	3.03
	Feb	12.37	0.00	0.00	15.600	0%	126%	3.23
	Mar	13.94	0.00	0.00	15.600	0%	112%	1.66
	Apr	14.44	0.00	0.00	15.600	0%	108%	1.16
	May	15.57	0.00	0.00	15.600	0%	100%	0.03
	Jun	16.10	0.00	0.00	15.600	0%	97%	-0.50
	Jul	15.71	0.00	0.00	15.600	0%	99%	-0.11
	Aug	15.73	0.00	0.00	15.600	0%	99%	-0.13
	Sep	15.56	0.00	0.00	15.600	0%	100%	0.04
	Oct	15.24	0.00	0.00	15.600	0%	102%	0.36
	Nov	14.21	0.00	0.00	15.600	0%	110%	1.39
	Dec	13.72	0.00	0.00	15.600	0%	114%	1.88
2034	Jan	13.09	0.00	0.00	15.600	0%	119%	2.51
	Feb	12.87	0.00	0.00	15.600	0%	121%	2.73
	Mar	14.51	0.00	0.00	15.600	0%	108%	1.09
	Apr	15.03	0.00	0.00	15.600	0%	104%	0.57
	May	16.20	0.00	0.00	15.600	0%	96%	-0.60
	Jun	16.76	0.00	0.00	15.600	0%	93%	-1.16
	Jul	16.35	0.00	0.00	15.600	0%	95%	-0.75
	Aug	16.38	0.00	0.00	15.600	0%	95%	-0.78
	Sep	16.19	0.00	0.00	15.600	0%	96%	-0.59
	Oct	15.92	0.00	0.00	15.600	0%	98%	-0.32
	Nov	14.79	0.00	0.00	15.600	0%	105%	0.81
	Dec	14.28	0.00	0.00	15.600	0%	109%	1.32

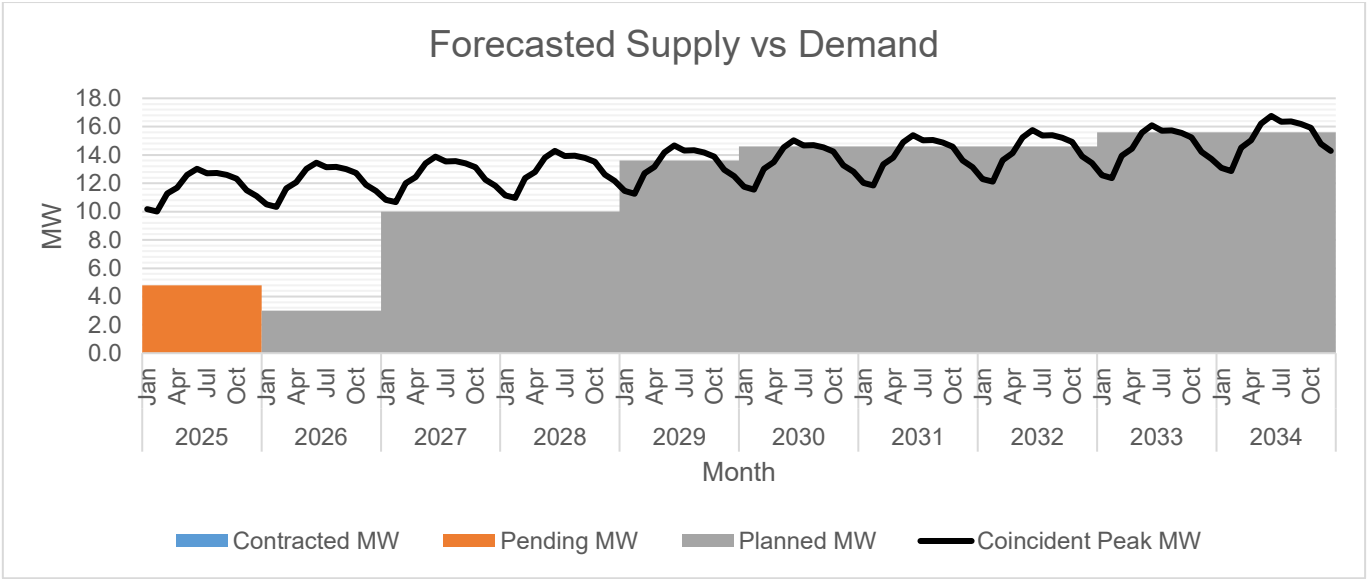
Quirelco used trend analysis methodology in conducting the forecast in purchase, sales, peak demand and customers.

The forecasting models formulated were tested for validity. The R^2 and Adjusted R^2 statistics are good measure of fit of the model to the historical data. These statistics must be used to assess whether the addition of independent variable is valid or not. Predictors or independent variables must also be tested for their validity using at least the p-value and t-statistic.

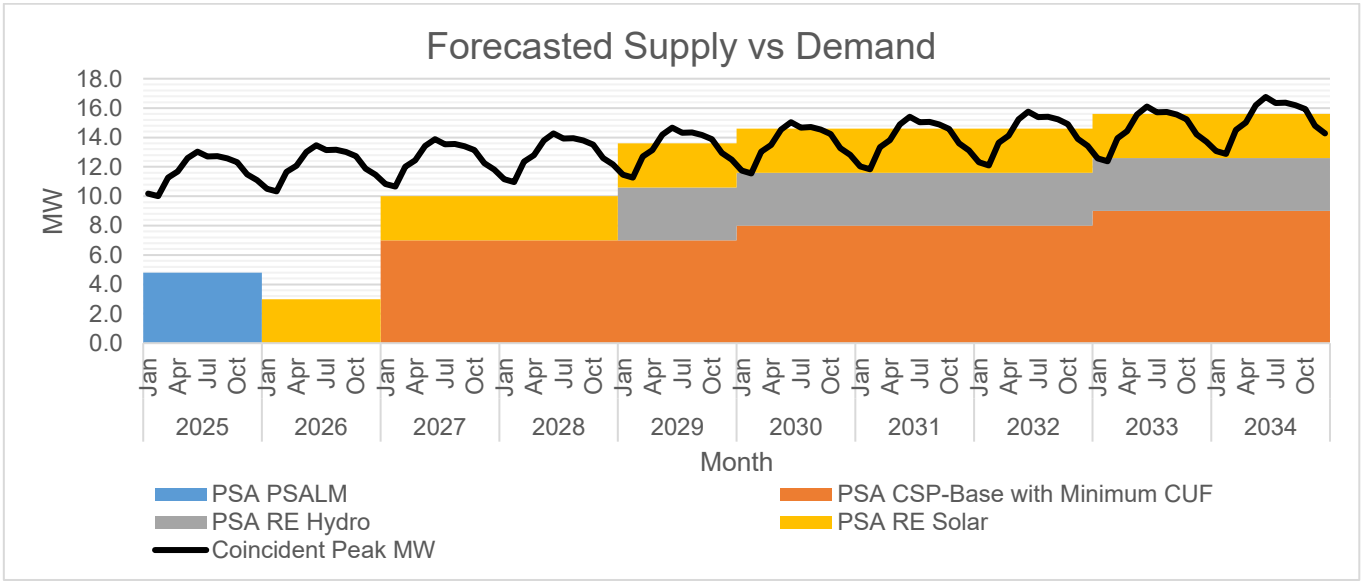
The chosen model must pass the following criteria:

- For econometric models, the Adjusted R^2 statistic should be at least 80%,
- For trend models, it should be at least 99%. In case no forecasting model passed the minimum 99% Adjusted R2, select the model that the best characterizes the expected forecast with Adjusted R2 not less than 95%
- p-value should be lower than 0.1,
- t-statistic should be greater than 2 or less than -2,
- Mean Absolute Percentage Error (MAPE) should not exceed 5%.

The Peak Demand was assumed to occur on the month of June. Monthly Peak Demand is at its lowest on the month of February. In general, Peak Demand is expected to grow at an average rate of 2.85% annually.



The forecasted available supply is generally significantly lower than the Peak Demand for the first four forecast years. This is because Quirelco's planned energy supply from the "PSA CSP-Base with Minimum CUF" is based on its average demand or capacity utilization which is lower than the peak demand. For the succeeding years where solar and hydro embedded generation facilities are planned, the planned MW goes up closer to the peak demand because these technologies have low availability factors to produce the energy required.

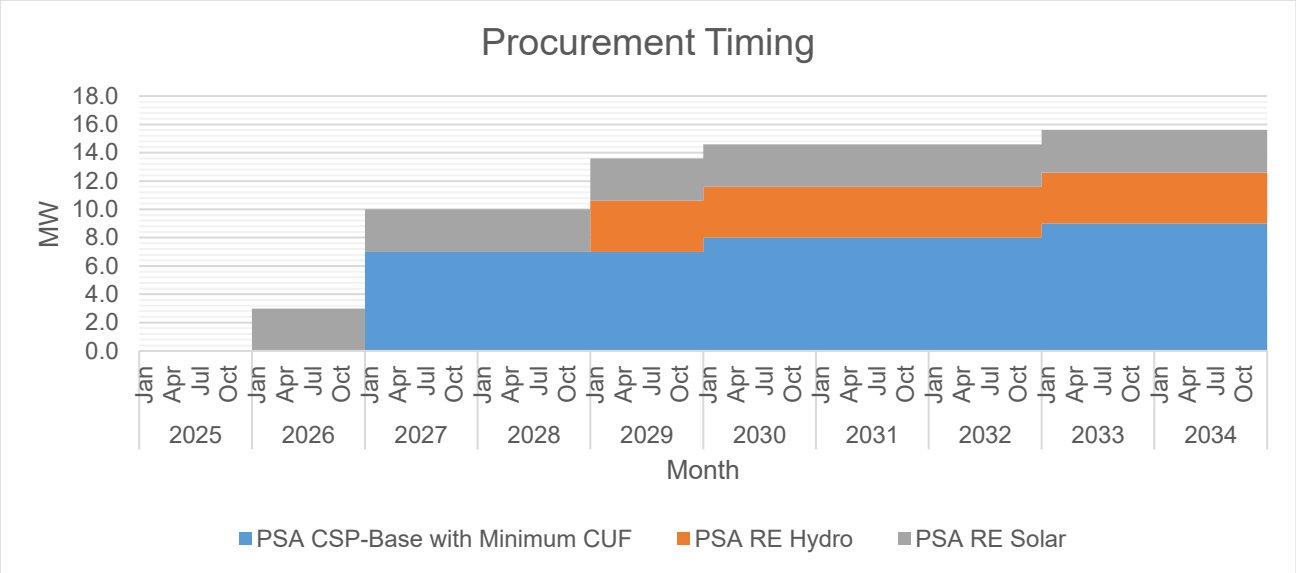


Currently, majority of Quirelco's power supply comes from the WESM. The 4.8 MW Contract for the Supply of Electric Energy (CSEE) with the Power Sector Assets and Liabilities Corporation (PSALM) starting 26 December 2024 to 25 December 2025 is exempted from the conduct of Competitive Selection Process. This CSEE with PSALM is still for filing with the ERC.

Of the forecasted supply, the largest is the upcoming CSP for the procurement of capacity based "PSA CSP-Base with Minimum CUF". For this CSP, the contracted capacity is increasing towards the end of the PSA and Minimum Capacity Utilization Factor (CUF) per billing month is set at sixty-five (65) percent:

Year	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CSP Contracted MW (100% CUF)	7	7	7	8	8	8	9	9	10	10	12	12	14	14	16
CSP Min MW (65% Min CUF per billing month)	4.6	4.6	4.6	5.2	5.2	5.2	5.9	5.9	6.5	6.5	7.8	7.8	9.1	9.1	10.4

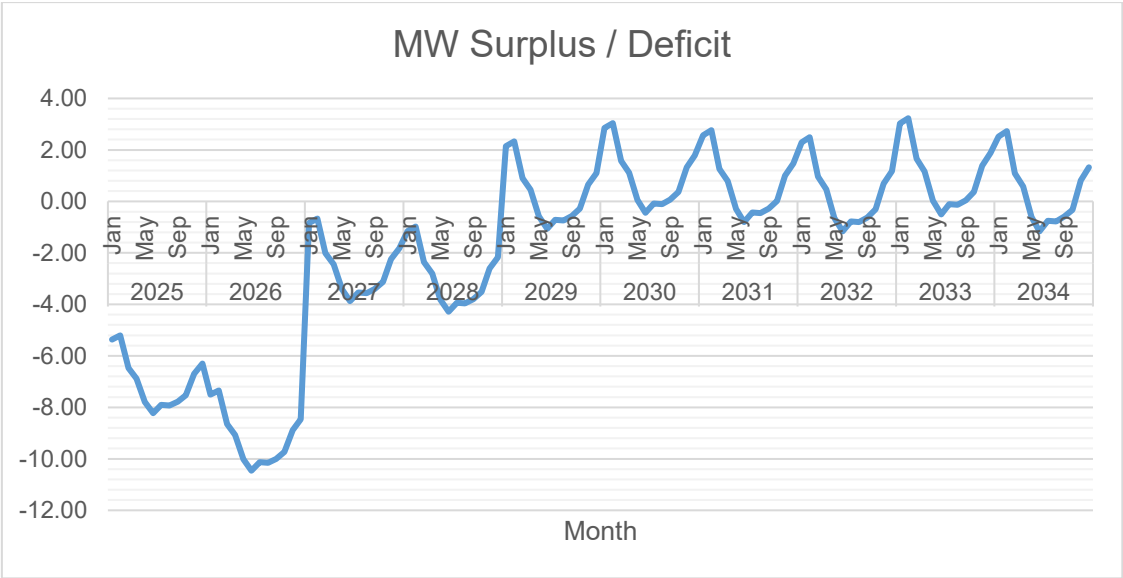
Additional peaking demand supply would come from a planned 3 MW solar Embedded Generation Facility (EGF) in 2026 and baseload demand supply would come from a planned 3.6 MW hydro EGF in 2029. Quirelco is currently in pre-development negotiations with potential joint venture partners for this planned RE embedded generation facility.



For the procurement of capacity based “PSA CSP-Base with Minimum CUF” which is planned to be available on December 26, 2026, the first publication or launch of CSP will be on April 1, 2026. Joint filing is planned on August 29, 2026, or 180 days later, in accordance with DOE’s 2023 CSP Policy (DOE DC No. DC2023-06-0021). For this CSP, the contracted capacity is increasing towards the end of the PSA and Minimum Capacity Utilization Factor (CUF) per billing month is set at sixty-five (65) percent.

This will be followed by PSA RE Solar for a 3.0 MW embedded solar power supply planned to be available on January 2026 and PSA RE Hydro for a 3.6 MW embedded hydro power supply planned to be available on January 2029 which are both under CSP exemption.

After the expiration of the CSEE with PSALM and starting January 2027 where “PSA CSP-Base with Minimum CUF” is expected to deliver, power supply contracting levels are seen to significantly stabilize. Also within this period, contracting levels are also observed to range from 70% to 126% because of the planned power supply procurement activities.



Demand deficit scenarios are clearly observed from the chart above for the first four years. These deficits will be provided for by the WESM. For the succeeding years, MW surplus is observed due to the injection of solar and hydro embedded generation facilities which have low availability factors to produce the required energy by Quirelco. There are, however, still some instances where deficits are observed. These deficits will be provided for by the WESM.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2025	Jan	4,657	4,224	433	0.00%	9.29%
	Feb	4,646	4,152	494	0.00%	10.63%
	Mar	4,792	4,220	573	0.00%	11.95%
	Apr	5,934	5,296	639	0.00%	10.76%
	May	6,537	5,828	709	0.00%	10.85%
	Jun	7,018	6,254	764	0.00%	10.88%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Jul	6,443	5,882	561	0.00%	8.71%
	Aug	6,683	6,095	588	0.00%	8.80%
	Sep	6,550	5,924	626	0.00%	9.56%
	Oct	6,070	5,648	422	0.00%	6.95%
	Nov	5,624	5,203	421	0.00%	7.48%
	Dec	5,065	4,670	395	0.00%	7.81%
2026	Jan	4,932	4,485	447	0.00%	9.06%
	Feb	4,920	4,409	511	0.00%	10.39%
	Mar	5,075	4,481	595	0.00%	11.72%
	Apr	6,285	5,623	662	0.00%	10.53%
	May	6,923	6,188	735	0.00%	10.61%
	Jun	7,432	6,641	791	0.00%	10.65%
	Jul	6,824	6,246	578	0.00%	8.47%
	Aug	7,078	6,472	606	0.00%	8.56%
	Sep	6,936	6,290	646	0.00%	9.32%
	Oct	6,428	5,997	431	0.00%	6.71%
	Nov	5,956	5,525	431	0.00%	7.24%
	Dec	5,364	4,959	406	0.00%	7.57%
2027	Jan	5,233	4,766	466	0.00%	8.91%
	Feb	5,220	4,685	535	0.00%	10.25%
	Mar	5,385	4,761	623	0.00%	11.58%
	Apr	6,668	5,975	693	0.00%	10.39%
	May	7,345	6,576	769	0.00%	10.47%
	Jun	7,885	7,057	828	0.00%	10.51%
	Jul	7,239	6,637	603	0.00%	8.32%
	Aug	7,509	6,877	632	0.00%	8.41%
	Sep	7,359	6,684	675	0.00%	9.18%
	Oct	6,820	6,373	447	0.00%	6.56%
	Nov	6,319	5,870	448	0.00%	7.09%
	Dec	5,691	5,269	422	0.00%	7.42%
2028	Jan	5,556	5,065	491	0.00%	8.84%
	Feb	5,543	4,979	564	0.00%	10.18%
	Mar	5,717	5,059	658	0.00%	11.51%
	Apr	7,080	6,349	730	0.00%	10.32%
	May	7,799	6,988	811	0.00%	10.40%
	Jun	8,373	7,499	874	0.00%	10.44%
	Jul	7,687	7,053	634	0.00%	8.25%
	Aug	7,973	7,308	665	0.00%	8.34%
	Sep	7,814	7,102	711	0.00%	9.11%
	Oct	7,242	6,772	470	0.00%	6.49%
	Nov	6,709	6,238	471	0.00%	7.02%
	Dec	6,043	5,599	444	0.00%	7.35%
2029	Jan	5,900	5,379	521	0.00%	8.82%
	Feb	5,886	5,288	598	0.00%	10.16%
	Mar	6,071	5,373	698	0.00%	11.49%
	Apr	7,518	6,743	774	0.00%	10.30%
	May	8,281	7,421	860	0.00%	10.38%
	Jun	8,890	7,964	926	0.00%	10.42%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Jul	8,162	7,490	672	0.00%	8.24%
	Aug	8,466	7,762	705	0.00%	8.33%
	Sep	8,297	7,543	754	0.00%	9.09%
	Oct	7,690	7,192	498	0.00%	6.47%
	Nov	7,124	6,625	499	0.00%	7.00%
	Dec	6,417	5,947	470	0.00%	7.33%
2030	Jan	6,261	5,707	554	0.00%	8.85%
	Feb	6,246	5,610	636	0.00%	10.19%
	Mar	6,443	5,701	742	0.00%	11.51%
	Apr	7,978	7,155	824	0.00%	10.32%
	May	8,789	7,874	915	0.00%	10.41%
	Jun	9,435	8,450	985	0.00%	10.44%
	Jul	8,662	7,947	715	0.00%	8.26%
	Aug	8,985	8,235	750	0.00%	8.35%
	Sep	8,805	8,003	802	0.00%	9.11%
	Oct	8,161	7,631	530	0.00%	6.49%
	Nov	7,561	7,029	531	0.00%	7.03%
	Dec	6,810	6,309	501	0.00%	7.35%
2031	Jan	6,638	6,047	591	0.00%	8.90%
	Feb	6,623	5,944	678	0.00%	10.24%
	Mar	6,831	6,041	790	0.00%	11.56%
	Apr	8,459	7,581	878	0.00%	10.37%
	May	9,318	8,344	975	0.00%	10.46%
	Jun	10,003	8,954	1,050	0.00%	10.49%
	Jul	9,184	8,421	763	0.00%	8.31%
	Aug	9,526	8,726	800	0.00%	8.40%
	Sep	9,336	8,480	856	0.00%	9.16%
	Oct	8,652	8,086	566	0.00%	6.55%
	Nov	8,016	7,448	568	0.00%	7.08%
	Dec	7,220	6,685	535	0.00%	7.41%
2032	Jan	7,029	6,398	631	0.00%	8.97%
	Feb	7,012	6,289	723	0.00%	10.31%
	Mar	7,233	6,391	841	0.00%	11.63%
	Apr	8,956	8,021	936	0.00%	10.45%
	May	9,866	8,828	1,039	0.00%	10.53%
	Jun	10,592	9,473	1,119	0.00%	10.56%
	Jul	9,724	8,909	815	0.00%	8.38%
	Aug	10,087	9,232	855	0.00%	8.47%
	Sep	9,885	8,972	913	0.00%	9.24%
	Oct	9,161	8,555	607	0.00%	6.62%
	Nov	8,488	7,880	607	0.00%	7.16%
	Dec	7,645	7,073	572	0.00%	7.48%
2033	Jan	7,432	6,758	673	0.00%	9.06%
	Feb	7,414	6,643	771	0.00%	10.39%
	Mar	7,647	6,751	896	0.00%	11.72%
	Apr	9,470	8,472	997	0.00%	10.53%
	May	10,432	9,324	1,107	0.00%	10.61%
	Jun	11,199	10,006	1,192	0.00%	10.65%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Jul	10,282	9,411	871	0.00%	8.47%
	Aug	10,665	9,752	913	0.00%	8.56%
	Sep	10,451	9,477	974	0.00%	9.32%
	Oct	9,686	9,036	650	0.00%	6.71%
	Nov	8,974	8,324	650	0.00%	7.24%
	Dec	8,083	7,471	612	0.00%	7.57%
2034	Jan	7,845	7,141	703	0.00%	8.97%
	Feb	7,826	7,020	806	0.00%	10.31%
	Mar	8,072	7,134	939	0.00%	11.63%
	Apr	9,996	8,952	1,044	0.00%	10.44%
	May	11,012	9,853	1,159	0.00%	10.52%
	Jun	11,821	10,573	1,248	0.00%	10.56%
	Jul	10,853	9,944	909	0.00%	8.38%
	Aug	11,257	10,304	953	0.00%	8.47%
	Sep	11,032	10,014	1,018	0.00%	9.23%
	Oct	10,225	9,548	677	0.00%	6.62%
	Nov	9,473	8,795	677	0.00%	7.15%
	Dec	8,532	7,894	638	0.00%	7.47%

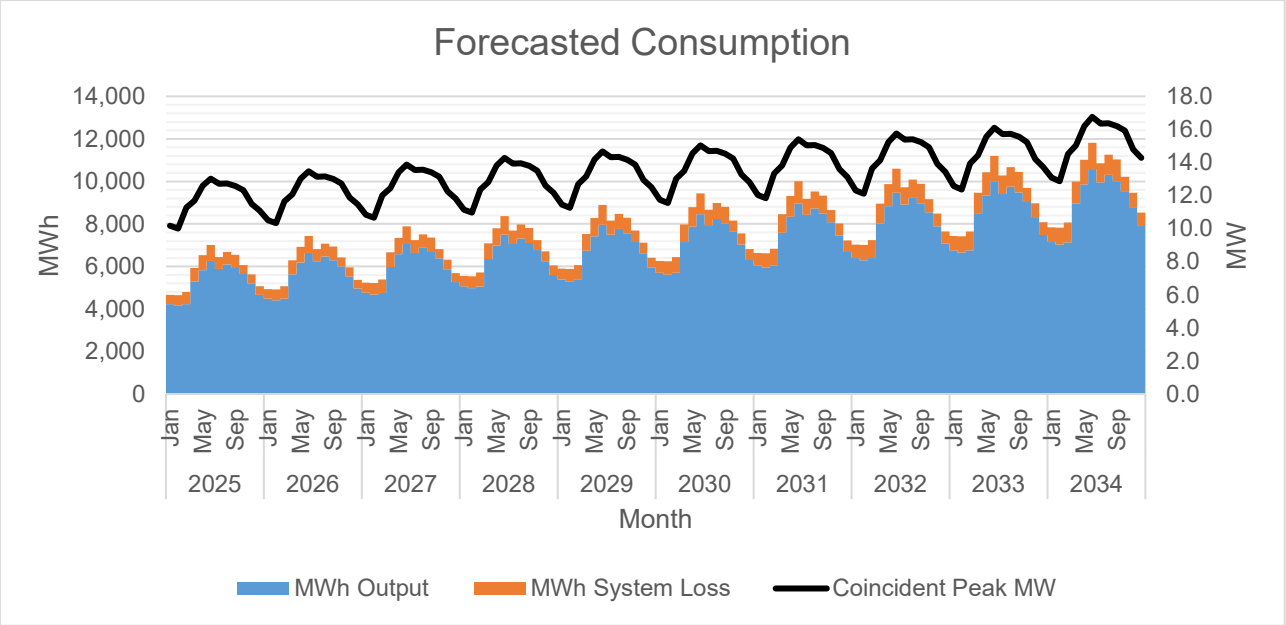
Quirelco used trend analysis methodology in conducting the forecast in purchase, sales, peak demand and customers.

The forecasting models formulated were tested for validity. The R^2 and Adjusted R^2 statistics are good measure of fit of the model to the historical data. These statistics must be used to assess whether the addition of independent variable is valid or not. Predictors or independent variables must also be tested for their validity using at least the p-value and t-statistic.

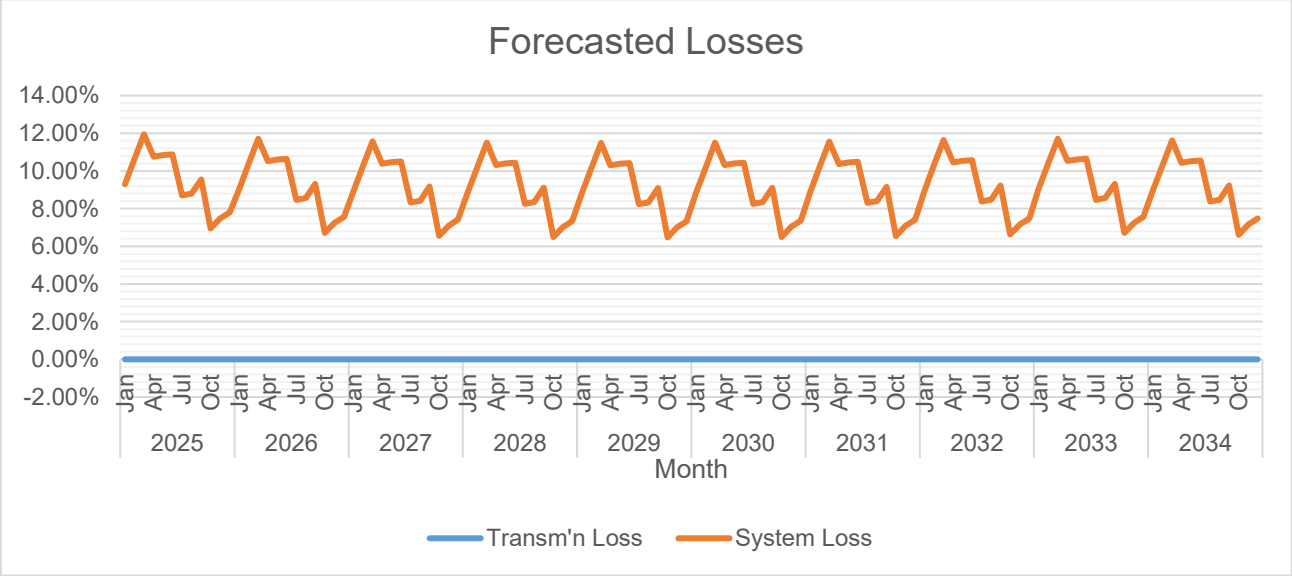
The chosen model must pass the following criteria:

- For econometric models, the Adjusted R^2 statistic should be at least 80%,
- For trend models, it should be at least 99%. In case no forecasting model passed the minimum 99% Adjusted R2, select the model that the best characterizes the expected forecast with Adjusted R2 not less than 95%
- p-value should be lower than 0.1,
- t-statistic should be greater than 2 or less than -2,
- Mean Absolute Percentage Error (MAPE) should not exceed 5%.

System Loss breakdown and analysis were calculated through a Load Flow Study using a credible engineering software of JAED (a private company) whom was awarded the contract for the simulation of Quirelco's distribution system loss data.



MWh Output is expected to grow at a rate of 6.01% annually.



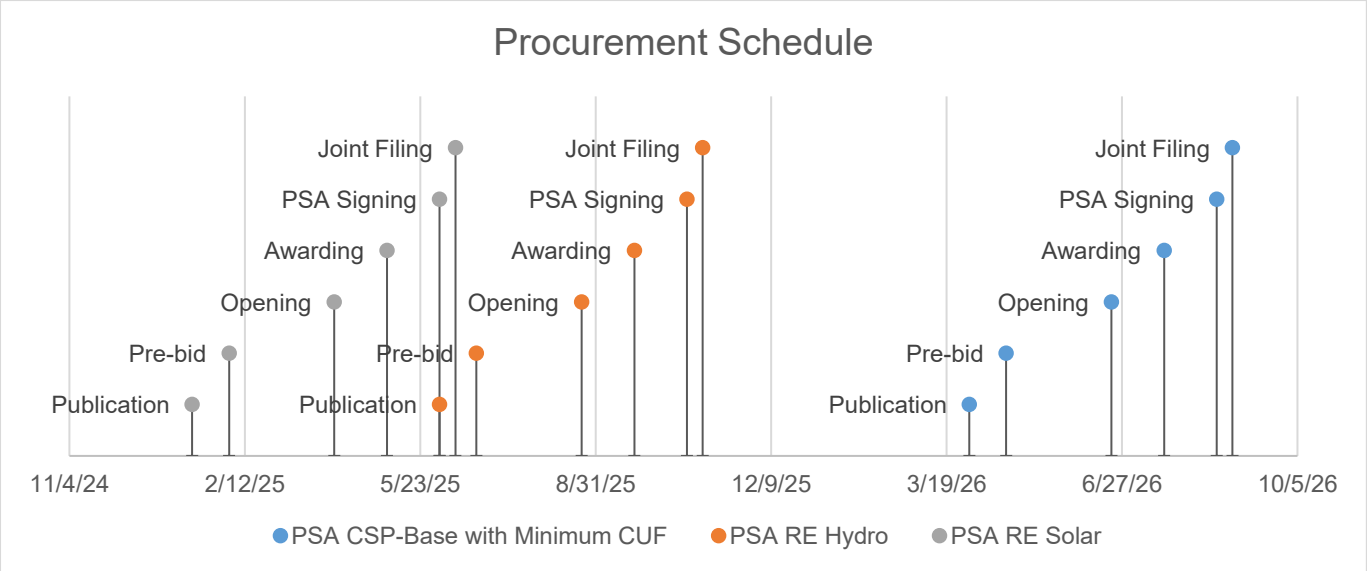
System Loss is expected to range from 6.47% to 11.95% from the period 2025 to 2034. There are no forecasted transmission losses since Quirelco does not own a high voltage transmission line. To mitigate the impact of high energy losses, Quirelco has implemented several system loss reduction projects. To reduce technical losses, Quirelco has implemented massive kilowatt-hour meters replacement. Old kilowatt-hour meters contributing high internal meter losses were replaced with new meters having minimal internal meter losses. Quirelo also has shifted to using amorphous core from the previous silicon core distribution transformers. CapEx projects were also applied to the ERC relevant to system loss reduction like additional power transformer capacity, upgrading, reconductoring and conversion of distribution lines. As for the non-technical losses, Quirelco is actively engaged in anti-pilferage activities to prevent further energy losses and to recover lost energy.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
PSA PSALM	Base	Power Sector Assets and Liabilities Management Corporation	4.80	10,140	12/26/2024	12/25/2025

The one-year extension of the Contract for the Supply of Electric Energy (CSEE) with Power Sector Assets and Liabilities Management Corporation (PSALM) is to be filed with the ERC. It was procured through direct negotiation as it is exempted from the conduct of CSP in accordance with DOE's 2023 CSP Policy (DOE DC No. DC2023-06-0021). It was selected to provide for baseload requirements with a contracted quantity of 845,000 kWh/month. The actual billed overall monthly charge under the PSA during the previous year ranged from 5.9872 P/kWh to 6.5283 P/KWh.

	PSA CSP-Base with Minimum CUF	PSA RE Hydro	PSA RE Solar
Type	Base	Base	Peaking
Minimum MW	4.55	3.60	3.00
Minimum MWh/yr	39,858	18,626	5,500
Maximum MW	16.00	3.00	3.60
Maximum MWh/yr	140,160	5,500	18,626
PSA Start	12/26/2026	12/26/2028	12/26/2025
PSA End	12/25/2041	12/26/2049	12/26/2040
Publication	4/1/2026	6/3/2025	1/13/2025
Pre-bid	4/22/2026	6/24/2025	2/3/2025
Opening	6/21/2026	8/23/2025	4/4/2025
Awarding	7/21/2026	9/22/2025	5/4/2025
PSA Signing	8/20/2026	10/22/2025	6/3/2025
Joint Filing	8/29/2026	10/31/2025	6/12/2025



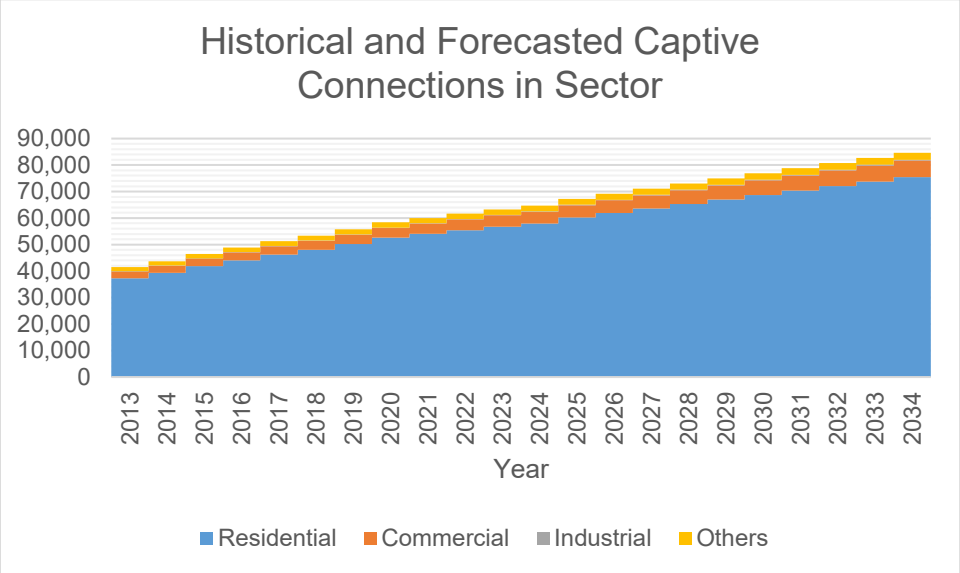
For the procurement of capacity based “PSA CSP-Base with Minimum CUF” which is planned to be available on December 26, 2026, the first publication or launch of CSP will be on April 1, 2026. Joint filing is planned on August 29, 2026, within 180 days, in accordance with DOE’s 2023 CSP Policy (DOE DC No. DC2023-06-0021). For this CSP, the contracted capacity is increasing towards the end of the PSA and Minimum Capacity Utilization Factor (CUF) per billing month is set at sixty-five (65) percent:

Year	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
CSP Contracted MW (100% CUF)	7	7	7	8	8	8	9	9	10	10	12	12	14	14	16
CSP Min MW (65% Min CUF per billing month)	4.6	4.6	4.6	5.2	5.2	5.2	5.9	5.9	6.5	6.5	7.8	7.8	9.1	9.1	10.4

The procurement of 3.0 MW supply from a solar embedded generation facility which is planned to be available on December 26, 2025 is exempted from the conduct of CSP in accordance with DOE's 2023 CSP Policy (DOE DC No. DC2023-06-0021). Quirelco is currently in pre-development negotiations with potential joint venture partners for this planned RE embedded generation facility.

For the procurement of 3.6 MW supply from a hydro embedded generation facility which is planned to be available on December 26, 2028 is exempted from the conduct of CSP in accordance with DOE's 2023 CSP Policy (DOE DC No. DC2023-06-0021). Quirelco is currently in pre-development negotiations with potential joint venture partners for this planned RE embedded generation facility.

Captive Customer Connections



The number of captive customers is expected to increase by 2.74% annually from 2025 to 2034. Majority of these customers belong to residential category.