Power Supply Procurement Plan 2024

Tarlac Electric 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	30.78	161,089	0	161,089	142,084	19,005	60%	0.00%	0.00%	11.80%
2001	33.18	174,600	0	174,600	153,609	20,991	60%	0.00%	0.00%	12.02%
2002	35.77	186,783	0	186,783	166,793	19,990	60%	0.00%	0.00%	10.70%
2003	38.57	200,006	0	200,006	179,004	21,001	59%	0.00%	0.00%	10.50%
2004	41.57	212,440	0	212,440	190,656	21,784	58%	0.00%	0.00%	10.25%
2005	44.58	217,157	0	217,157	195,727	21,430	56%	0.00%	0.00%	9.87%
2006	38.72	218,009	0	218,009	196,957	21,052	64%	0.00%	0.00%	9.66%
2007	40.39	225,645	0	225,645	204,123	21,522	64%	0.00%	0.00%	9.54%
2008	39.34	224,808	0	224,808	207,004	17,804	65%	0.00%	0.00%	7.92%
2009	41.16	226,874	0	226,874	206,312	20,562	63%	0.00%	0.00%	9.06%
2010	48.83	266,802	0	266,802	244,970	21,832	62%	0.00%	0.00%	8.18%
2011	46.27	266,374	0	266,374	245,194	21,180	66%	0.00%	0.00%	7.95%
2012	48.76	281,749	0	281,749	256,565	25,184	66%	0.00%	0.00%	8.94%
2013	52.25	294,521	133,498	294,521	273,649	20,872	64%	0.00%	0.00%	7.09%
2014	54.60	306,715	76,752	306,715	285,860	20,855	64%	0.00%	0.00%	6.80%
2015	56.40	345,399	72,458	345,399	323,288	22,111	70%	0.00%	0.00%	6.40%
2016	67.09	385,268	66,927	385,268	362,863	22,406	66%	0.00%	0.00%	5.82%
2017	70.39	417,275	121,465	417,275	394,367	22,909	68%	0.00%	0.00%	5.49%
2018	79.92	441,928	110,415	441,928	419,571	22,357	63%	0.00%	0.00%	5.06%
2019	81.66	461,897	130,266	461,897	438,802	23,095	65%	0.00%	0.00%	5.00%
2020	86.91	457,857	77,721	457,857	432,378	25,479	60%	0.00%	0.00%	5.56%
2021	91.38	489,419	86,804	489,419	463,440	25,979	61%	0.00%	0.00%	5.31%
2022	89.91	505,074	111,349	505,074	480,839	24,235	64%	0.00%	0.00%	4.80%
2023	95.96	521,036	131,863	521,036	494,263	26,773	62%	0.00%	0.00%	5.14%

In 2023, TEI experienced a notable increase in peak demand of 6.73% from 89.91 MW to 95.96 MW. During the year, the average recorded temperature during the summer season within the franchise area was 30 degrees Celsius, higher by a Celsius degree as compared to 2022. The higher temperature contributed to the increase in power demand.

In 2022, the decline in peak demand was primarily due to the early onset of the rainy season declared in May, whereas in 2021, rainy season was declared in June.

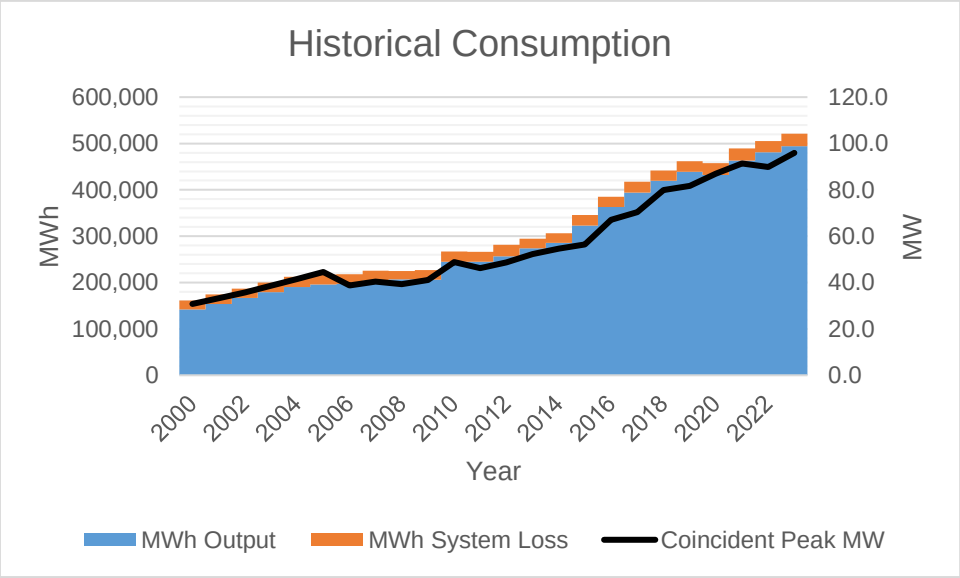
In 2021, the energy sales increased by 7.18% as businesses started to operate after the Enhanced Community Quarantine (ECQ) declared by the government in 2020 was lifted.

In 2020, Tarlac Province was placed under ECQ from 16 March 2020 to 15 May 2020 which resulted in a decline in energy sales of ten and 09/100 percent (10.09%) during the second quarter. This was primarily due to the shutdown of businesses. It is to be noted that during summer months, distribution utilities usually register higher energy sales compared to the rest of the year, but with the ECQ in place, most of the industrial and commercial establishments had ceased their operations, thus resulting to lower energy sales from non-residential customers. The Company also experienced a decline of one and 46/100 percent (1.46%) in energy sales compared to 2019.

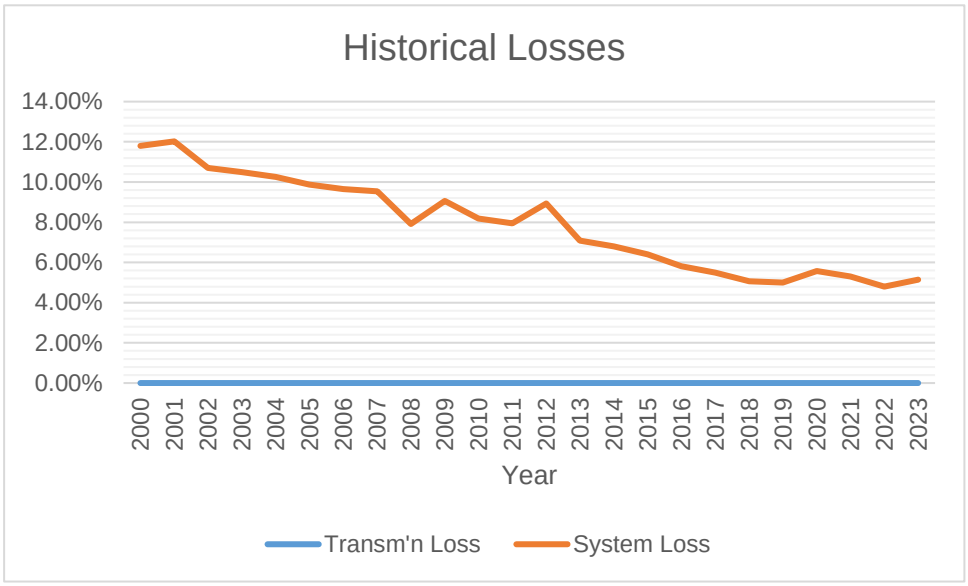
For 2022, the Company's energy sales (MWh Offtake) increased from 489,419 MWh to 505,074 MWh with a growth of 3.20%. As the country and its economy adapted to the new normal, businesses and schools started to operate onsite, and the industrial energy demand increased leading to an overall growth in energy sales.

For 2023, the Company's energy sales (MWh Offtake) increased to 521,036 MWh or by 3.16%. The increase in energy sales can be attributed to the increase in residential and commercial customer connections. These have all contributed to the heightened demand for power and energy.

For 2023, the Load Factor decreased from 64% to 62%.



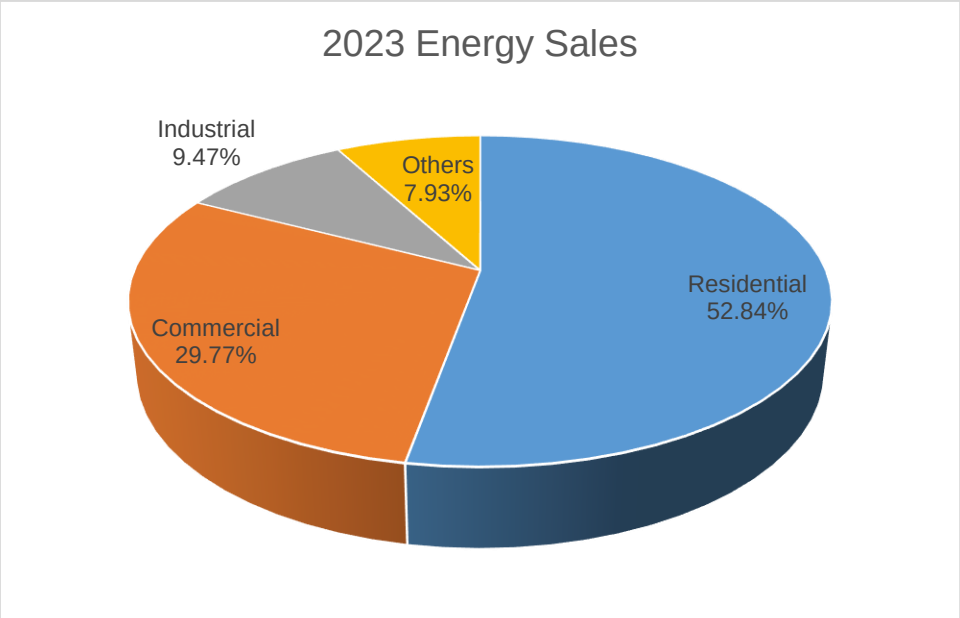
In 2023, consumption increased by 2.79% compared to 2022, while System Loss increased by 10.47%.



TEI's system loss increased from 4.80% in 2022 to 5.14% in 2023. System loss is computed as the difference of *total energy input* and *total energy sales* during the year, whereas non-technical loss is the residual of system loss and technical loss.

The negative non-technical loss noted in March 2020 resulted from the estimated consumption billed to the Company's customers during ECQ (Enhanced Community Quarantine). The lockdown constrained TEI to estimate the consumption of its customers from March 18 to May 15, 2020, based on the provisions of DSOAR (Distribution Service and Open Access Rules). This was normalized in June when the Company resumed reading its customers' meters. Additionally, the difference in the meter reading schedule of the Company's suppliers, which occurs from the 26th to the 25th of the following month, compared to the meter reading schedule of the Company's customers, which is scheduled throughout the billing month, contributes to significant changes in the resulting non-technical loss.

Over the past two decades, the highest recorded system loss of TEI was 12.02% in 2001 while the lowest was at 4.80% in 2022. The Company was able to lower its system loss due to extensive implementation of capital expenditure projects to enhance its distribution network system.



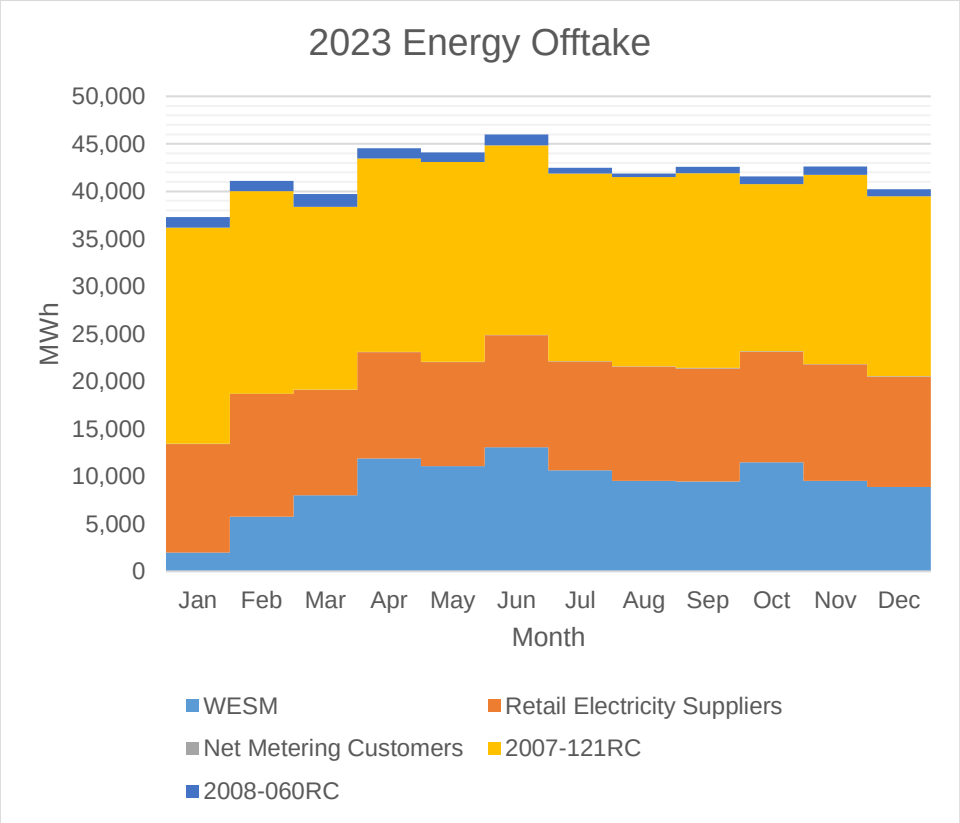
In 2023, energy sales from Residential customers were the highest, accounting for 52.84% of the company's energy sales, followed by Commercial Sector which accounts for 29.77%. The remaining percentage was consumed by the Industrial Sector at 9.47%, the Other Sector at 7.58%, and the Company's own use which accounts for 0.34%.

Consumption from Other Sectors pertains to customers classified as Public Buildings, Streetlights, and Water Systems. The Company started the identification and classification of these customers only in 2021, thus data from 2000 up to 2020 were not yet available.

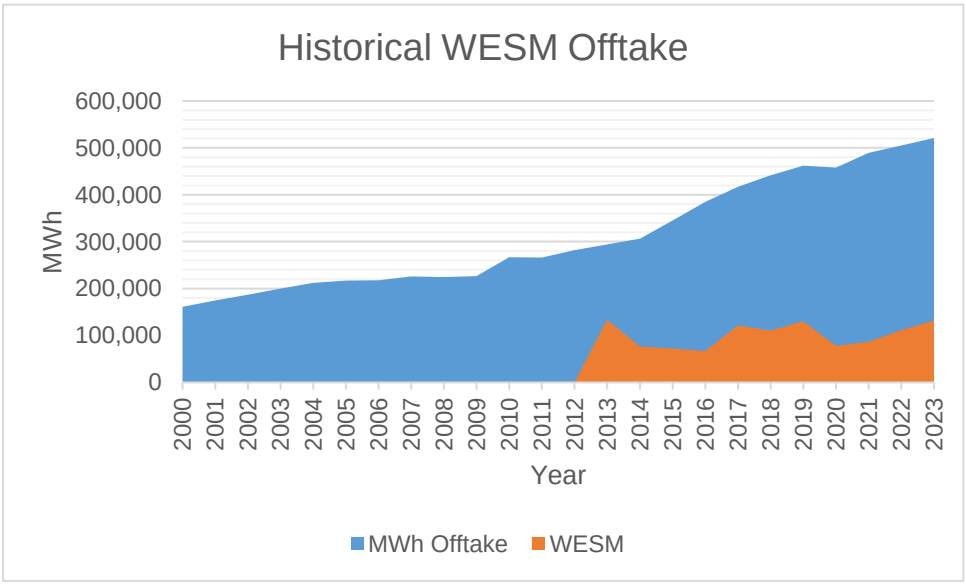
Energy sales in 2023 have increased by 3.16% as compared with 2022 sales. This can be attributed to the increase in residential and commercial customer connections. Nonetheless, the forecasted growth of energy sales in the Commercial and Industrial sectors under the captive market was expected to be minimal due to the expected switching of customers to RCOA and GEOP, the increasing number of net-metering connections and the implementation of the Retail Aggregation Program, among other programs available to qualified customers.

In 2022, energy sales increased by 3.20% compared to 2021 sales, driven by the increase in commercial and industrial consumption as the economy adjusted to the new normal. Energy sales in 2021 increased by 6.89% compared to 2020, attributed to the increase in residential and industrial consumption resulting from the adoption of flexible alternative learning and resumption of industrial operations.

During the pandemic and implementation of the Enhanced Community Quarantine last 2020, Health and Safety Protocols were released thereafter adopting a skeleton workforce with alternative work and learning arrangements. A shift in consumption from Commercial and Industrial to Residential Sectors was observed. The energy sales to Commercial and Industrial Sectors increased beginning the second half of 2020.

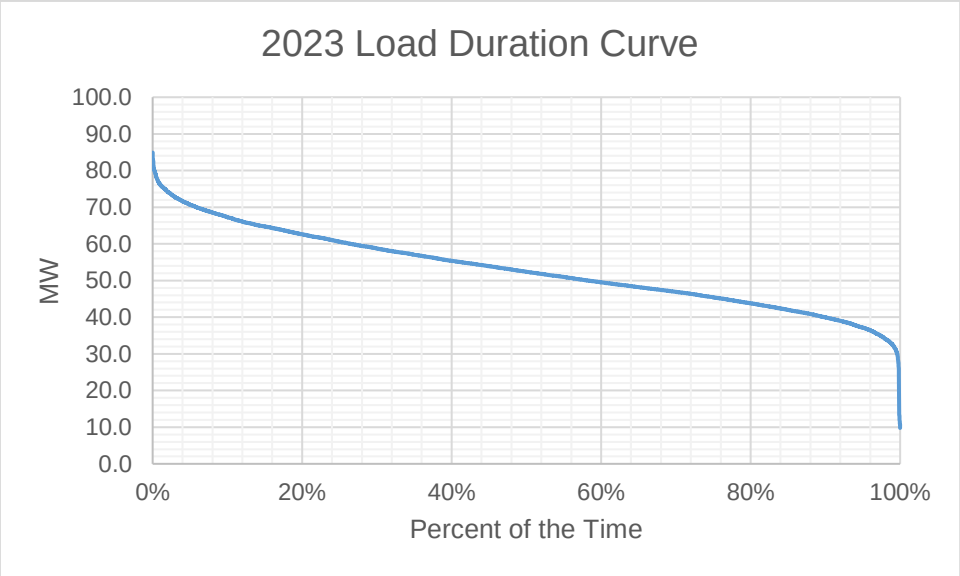


The total Offtake for the last historical year was higher than the quantity stipulated in the PSA. The bulk of the Energy Offtake was provided by GNPower Mariveles Coal Plant Ltd. (ERC Case No. 2007-121RC). The data for “S4R as buyer MWh” is not applicable as TEI has no Sale for Resale Agreement.

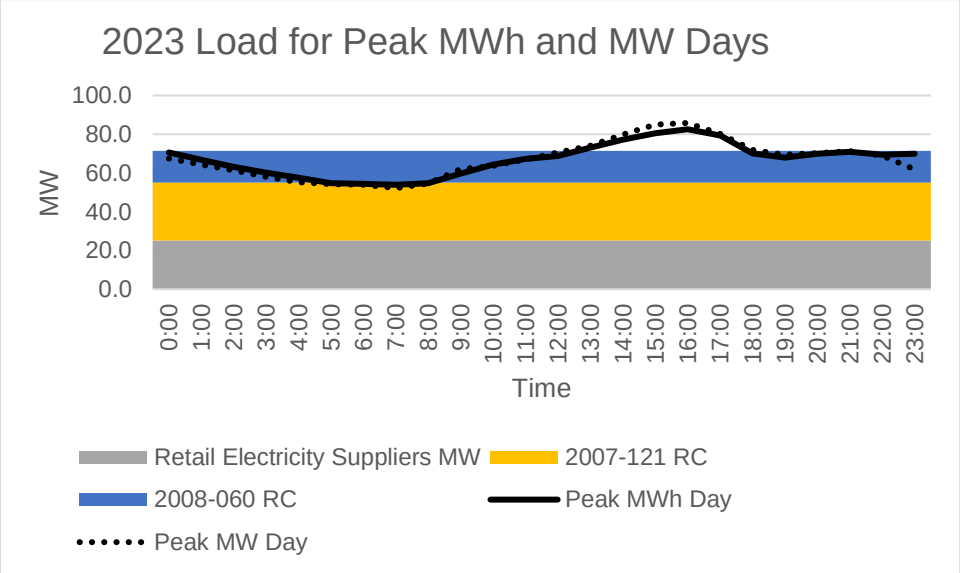


WESM offtake increased from 111,349 MWh in 2022 to 131,863 MWh in 2023. The share of WESM in the total offtake has an average of 24.20%

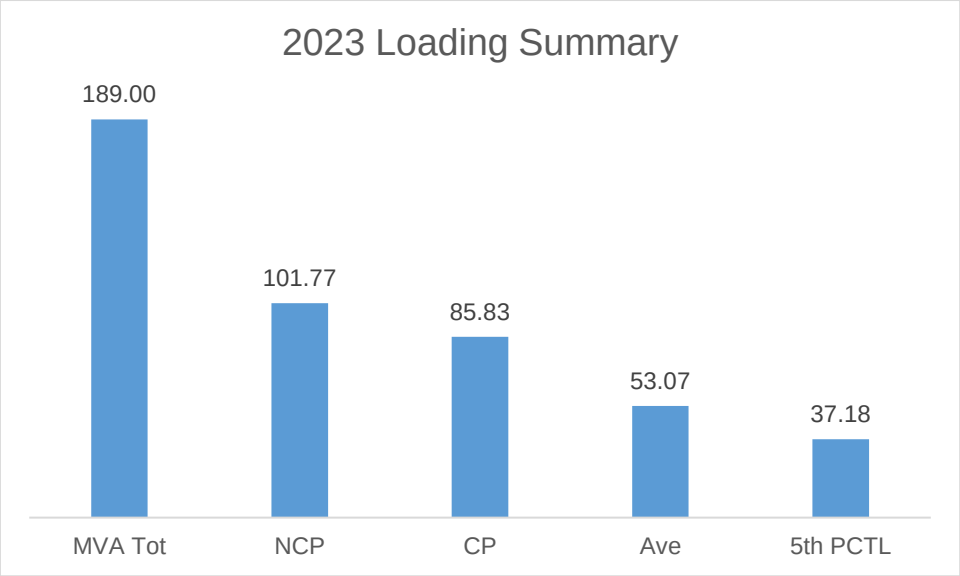
Previous Year's Load Profile



As shown in the above graph, the maximum load of the Company's power transformers in 2023 was 85.83 MW. Said maximum load did not include the requirement of the Company's 69 KV customers and the supply from embedded generators.



In 2023, transformer peak demand occurred at 15:00 while the daily peak demand occurred between 14:00 to 16:00.



The Non-coincident Peak Demand is 101.77 MW, which is around 53.85% of the total substation capacity of 189 MVA. The ratio between the Average Load of 53.07 MW and the Non-coincident Peak Demand is 52.15%. A safe estimate of the true minimum load is the fifth percentile load of 37.18 MW which is 36.53% of the Non-coincident Peak Demand.

The Company's new San Vicente Substation with 33MVA power transformer was energized in September 2023. Said substation has been temporarily serving the loads of TPC Substation which has been undergoing meter rehabilitation since September 2023.

The rehabilitation of TPC Substation metering is expected to be finished by April 2024. Consequently, around 57% of loads shall be transferred back to TPC Substation whereas the remaining 43% percent shall be permanently served by San Vicente Substation to address the projected growth in the area that is currently served by TPCFDR1 feeder.

Metering Point	Substation MVA	Substation Peak MW
LIP SS	63	22.98
Maliwalo SS	10	9.91
Panganiban SS	35	31.87
San Rafael	28	22.42
TPC	20	12.43
San Vicente	33	12.18

In 2023, the 10MVA power transformer at Maliwalo Substation was operating at 80% loading capacity. Said power transformer is scheduled to be upgraded to 33MVA this year.

The 28MVA power transformer at San Rafael Substation is expected to reach 70% of its loading capacity by the end of the year. To address this, portion of its current load shall be transferred to the 33MVA San Vicente Substation within the year. Nonetheless, the said power transformer is still expected to breach the 70% loading capacity by 2028, as such, the Company plans to upgrade the 28MVA power transformer to 33MVA before 2028.

The 25MVA power transformer at Panganiban Substation is expected to breach the 70% capacity margin by the end of the year. To address this, portion of its current load shall also be transferred to the 33MVA San Vicente Substation within the year. Despite the planned transfer of load, said power transformer is still expected to reach 70% of its loading capacity by 2028. As such, the Company plans to transfer the 28MVA power transformer from San Rafael Substation to Panganiban, whereas the replaced 25MVA power transformer shall be used to upgrade the 10MVA power transformer at Panganiban Substation which is likewise expected to breach the 70% capacity margin by 2028.

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	79.68	50.88	0.00	0.00	23.76	91%	91%	-5.04
	Feb	81.72	68.88	0.00	0.00	22.93	117%	117%	10.08
	Mar	85.15	72.88	0.00	0.00	22.14	116%	116%	9.86
	Apr	104.10	72.88	0.00	0.00	22.00	89%	89%	-9.22
	May	106.87	72.88	0.00	0.00	23.53	87%	87%	-10.46
	Jun	102.55	67.08	0.00	0.00	22.71	84%	84%	-12.76
	Jul	96.80	61.28	0.00	0.00	23.52	84%	84%	-12.00
	Aug	92.01	61.28	0.00	0.00	22.88	89%	89%	-7.85
	Sep	91.72	61.28	0.00	0.00	22.24	88%	88%	-8.21
	Oct	94.55	61.28	0.00	0.00	23.20	86%	86%	-10.07
	Nov	97.74	61.28	0.00	0.00	26.11	86%	86%	-10.35
	Dec	96.37	61.28	0.00	0.00	26.49	88%	88%	-8.59
2025	Jan	88.53	61.28	0.00	0.00	26.99	100%	100%	-0.26
	Feb	89.20	61.28	0.00	0.00	25.43	96%	96%	-2.49
	Mar	99.68	61.28	0.00	0.00	28.53	86%	86%	-9.87
	Apr	103.11	61.28	0.00	0.00	26.59	80%	80%	-15.25
	May	119.78	61.28	0.00	0.00	26.52	66%	66%	-31.98
	Jun	114.03	61.28	0.00	0.00	25.90	70%	70%	-26.85
	Jul	114.80	61.28	0.00	0.00	25.78	69%	69%	-27.74
	Aug	107.91	61.28	0.00	0.00	24.99	74%	74%	-21.64
	Sep	111.22	61.28	0.00	0.00	24.92	71%	71%	-25.02
	Oct	112.08	61.28	0.00	10.00	24.93	70%	82%	-15.87
	Nov	109.14	61.28	0.00	10.00	28.05	76%	88%	-9.81
	Dec	107.61	61.28	0.00	10.00	28.39	77%	90%	-7.93
2026	Jan	109.45	61.28	0.00	20.00	28.91	76%	101%	0.75
	Feb	110.28	61.28	0.00	20.00	27.21	74%	98%	-1.79
	Mar	123.23	61.28	0.00	20.00	30.54	66%	88%	-11.42
	Apr	127.48	61.28	0.00	20.00	28.50	62%	82%	-17.70

	May	134.75	46.40	0.00	20.00	28.50	44%	62%	-39.85
	Jun	128.28	46.40	0.00	20.00	27.86	46%	66%	-34.02
	Jul	129.15	46.40	0.00	20.00	27.73	46%	65%	-35.02
	Aug	121.40	46.40	0.00	20.00	26.87	49%	70%	-28.13
	Sep	125.12	46.40	0.00	20.00	26.78	47%	68%	-31.95
	Oct	126.09	46.40	0.00	20.00	26.80	47%	67%	-32.89
	Nov	122.78	46.40	0.00	20.00	30.15	50%	72%	-26.23
	Dec	121.06	46.40	0.00	20.00	30.45	51%	73%	-24.21
2027	Jan	122.76	46.40	0.00	20.00	31.21	51%	73%	-25.15
	Feb	123.69	46.40	0.00	20.00	29.34	49%	70%	-27.96
	Mar	138.22	46.40	0.00	20.00	32.93	44%	63%	-38.89
	Apr	142.98	46.40	0.00	20.00	30.78	41%	59%	-45.80
	May	151.14	46.40	0.00	20.00	30.87	39%	55%	-53.87
	Jun	143.89	46.40	0.00	20.00	30.20	41%	58%	-47.28
	Jul	144.85	46.40	0.00	20.00	30.06	40%	58%	-48.40
	Aug	136.16	46.40	0.00	20.00	29.11	43%	62%	-40.66
	Sep	140.34	46.40	0.00	20.00	28.99	42%	60%	-44.95
	Oct	141.42	46.40	0.00	20.00	29.02	41%	59%	-46.00
	Nov	137.71	46.40	0.00	20.00	32.66	44%	63%	-38.66
	Dec	135.78	46.40	0.00	20.00	32.89	45%	65%	-36.49
2028	Jan	139.17	46.40	0.00	20.00	33.52	44%	63%	-39.25
	Feb	140.23	46.40	0.00	20.00	31.48	43%	61%	-42.35
	Mar	156.70	46.40	0.00	20.00	35.34	38%	55%	-54.96
	Apr	162.09	46.40	0.00	20.00	33.07	36%	51%	-62.62
	May	171.34	46.40	0.00	20.00	33.23	34%	48%	-71.71
	Jun	163.12	46.40	0.00	20.00	32.53	36%	51%	-64.19
	Jul	164.22	46.40	0.00	20.00	32.38	35%	50%	-65.44
	Aug	154.37	46.40	0.00	20.00	31.34	38%	54%	-56.62
	Sep	159.10	46.40	0.00	20.00	31.21	36%	52%	-61.49
	Oct	160.32	46.40	0.00	20.00	31.25	36%	51%	-62.67
	Nov	156.12	46.40	0.00	20.00	35.16	38%	55%	-54.56
	Dec	153.93	46.40	0.00	20.00	35.35	39%	56%	-52.18
2029	Jan	152.46	46.40	0.00	20.00	35.83	40%	57%	-50.24

	Feb	153.63	46.40	0.00	20.00	33.62	39%	55%	-53.61
	Mar	171.67	0.00	0.00	70.00	37.75	0%	52%	-63.92
	Apr	177.58	0.00	0.00	70.00	35.37	0%	49%	-72.21
	May	187.71	0.00	0.00	70.00	35.61	0%	46%	-82.10
	Jun	178.71	0.00	0.00	70.00	34.89	0%	49%	-73.82
	Jul	179.91	0.00	0.00	70.00	34.73	0%	48%	-75.18
	Aug	169.12	0.00	0.00	70.00	33.60	0%	52%	-65.52
	Sep	174.30	0.00	0.00	70.00	33.44	0%	50%	-70.86
	Oct	175.64	0.00	0.00	70.00	33.50	0%	49%	-72.15
	Nov	171.04	0.00	0.00	70.00	37.69	0%	52%	-63.35
	Dec	168.64	0.00	0.00	70.00	37.82	0%	54%	-60.83
2030	Jan	170.43	0.00	0.00	70.00	38.21	0%	53%	-62.23
	Feb	171.73	0.00	0.00	70.00	36.78	0%	52%	-64.96
	Mar	191.90	0.00	0.00	75.00	39.66	0%	49%	-77.24
	Apr	198.51	0.00	0.00	75.00	37.82	0%	47%	-85.70
	May	209.84	0.00	0.00	75.00	37.69	0%	44%	-97.14
	Jun	199.77	0.00	0.00	75.00	37.10	0%	46%	-87.67
	Jul	201.11	0.00	0.00	75.00	36.98	0%	46%	-89.13
	Aug	189.05	0.00	0.00	75.00	36.27	0%	49%	-77.78
	Sep	194.84	0.00	0.00	75.00	36.20	0%	47%	-83.64
	Oct	196.35	0.00	0.00	75.00	36.20	0%	47%	-85.14
	Nov	191.20	0.00	0.00	75.00	39.11	0%	49%	-77.09
	Dec	188.52	0.00	0.00	75.00	39.49	0%	50%	-74.02
2031	Jan	177.41	0.00	0.00	75.00	41.07	0%	55%	-61.34
	Feb	178.76	0.00	0.00	75.00	38.48	0%	53%	-65.28
	Mar	199.76	0.00	0.00	75.00	43.23	0%	48%	-81.53
	Apr	206.64	0.00	0.00	75.00	40.57	0%	45%	-91.06
	May	218.43	0.00	0.00	75.00	40.97	0%	42%	-102.45
	Jun	207.95	0.00	0.00	75.00	40.18	0%	45%	-92.76
	Jul	209.35	0.00	0.00	75.00	39.99	0%	44%	-94.35
	Aug	196.79	0.00	0.00	75.00	38.67	0%	47%	-83.12
	Sep	202.82	0.00	0.00	75.00	38.47	0%	46%	-89.35
	Oct	204.38	0.00	0.00	75.00	38.55	0%	45%	-90.83

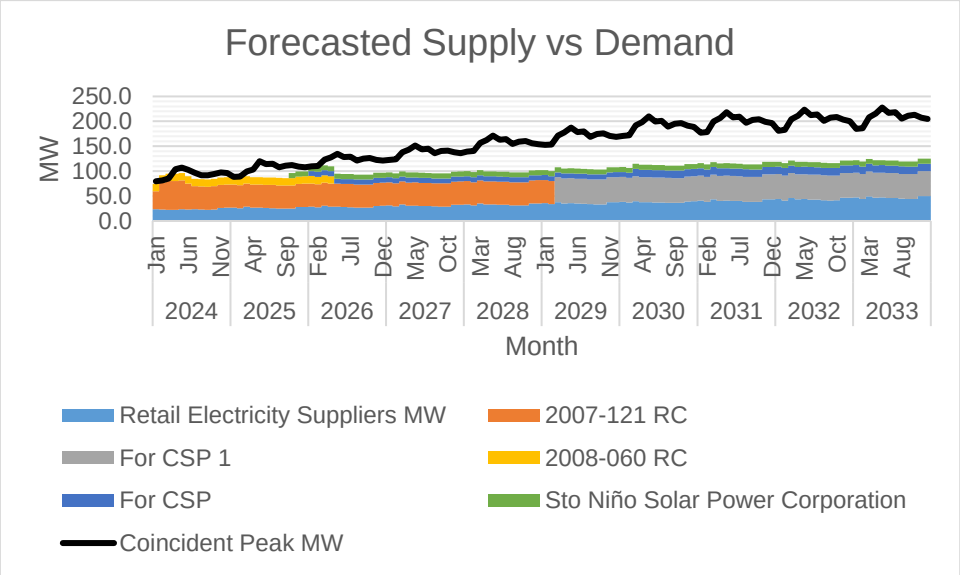
	Nov	199.03	0.00	0.00	75.00	43.37	0%	48%	-80.66
	Dec	196.24	0.00	0.00	75.00	43.39	0%	49%	-77.84
2032	Jan	181.31	0.00	0.00	75.00	43.98	0%	55%	-62.33
	Feb	182.69	0.00	0.00	75.00	41.19	0%	53%	-66.51
	Mar	204.15	0.00	0.00	75.00	46.27	0%	48%	-82.88
	Apr	211.19	0.00	0.00	75.00	43.47	0%	45%	-92.72
	May	223.23	0.00	0.00	75.00	43.95	0%	42%	-104.29
	Jun	212.52	0.00	0.00	75.00	43.12	0%	44%	-94.41
	Jul	213.95	0.00	0.00	75.00	42.91	0%	44%	-96.04
	Aug	201.12	0.00	0.00	75.00	41.48	0%	47%	-84.64
	Sep	207.28	0.00	0.00	75.00	41.26	0%	45%	-91.02
	Oct	208.88	0.00	0.00	75.00	41.35	0%	45%	-92.53
	Nov	203.41	0.00	0.00	75.00	46.52	0%	48%	-81.89
	Dec	200.55	0.00	0.00	75.00	46.49	0%	49%	-79.06
2033	Jan	184.95	0.00	0.00	75.00	47.13	0%	54%	-62.83
	Feb	186.36	0.00	0.00	75.00	44.12	0%	53%	-67.24
	Mar	208.25	0.00	0.00	75.00	49.57	0%	47%	-83.68
	Apr	215.43	0.00	0.00	75.00	46.59	0%	44%	-93.84
	May	227.71	0.00	0.00	75.00	47.15	0%	42%	-105.57
	Jun	216.79	0.00	0.00	75.00	46.27	0%	44%	-95.52
	Jul	218.25	0.00	0.00	75.00	46.05	0%	44%	-97.20
	Aug	205.16	0.00	0.00	75.00	44.51	0%	47%	-85.65
	Sep	211.45	0.00	0.00	75.00	44.27	0%	45%	-92.18
	Oct	213.07	0.00	0.00	75.00	44.36	0%	44%	-93.71
	Nov	207.49	0.00	0.00	75.00	49.91	0%	48%	-82.58
	Dec	204.58	0.00	0.00	75.00	49.84	0%	48%	-79.74

The forecasted peak demand results from a combination of historical trends and expected spot load/s. The system peak demand is expected to occur in May due to hot weather, whereas the lowest monthly peak demand is expected to occur in January due to cold weather. In general, Peak Demand is expected to grow at an average annual rate of 8.82%.

The graph below shows that the available supply, which includes the Company's contracted demand, planned contracted demand, and the demand from contestable customers, seemed insufficient to meet the peak demand. However, it is important to note that peak demand typically occurs during the summer months, from May to June, with demand being considerably lower for the rest of the year. As a result, the Company's annual average system demand remains consistently lower than the available supply.

As illustrated in the graph, the Company's current power supply agreements (PSAs) are set to expire in 2026 and 2029. The Company is committed to conducting a competitive selection process (CSP) to secure the necessary power supply arrangements to replace the expiring contracts.

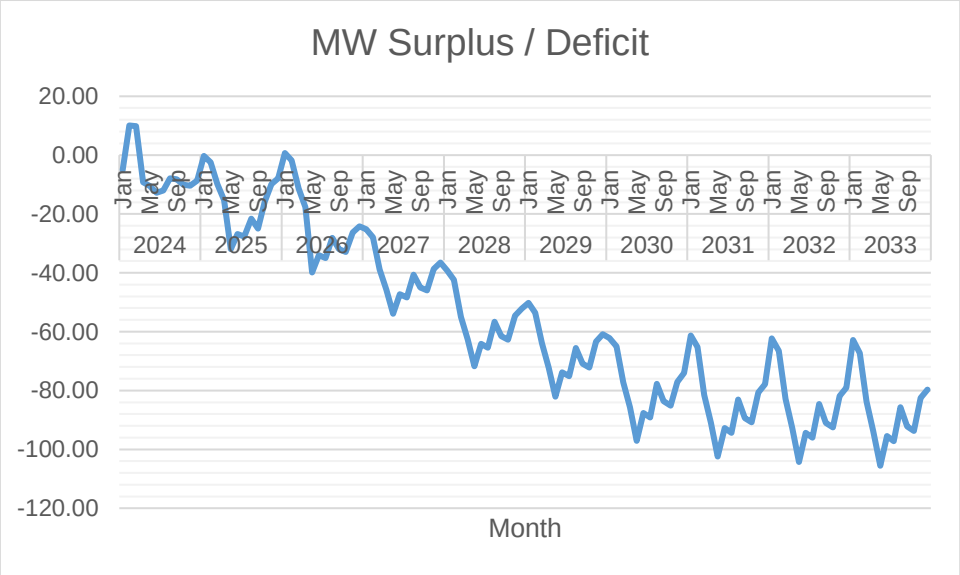
In addition to the expiring contracts, the Company is experiencing a shortfall in its renewable energy certificates (RECs), a situation that is expected to continue unless the Company secures power from an eligible renewable energy supplier. To address this, TEI has initiated negotiations with Sto. Nino Solar Power Corporation, an embedded renewable energy supplier, for a power supply agreement for 10 MW, with planned availability from 26 September 2025 to 25 September 2045. Moreover, the Company is preparing the necessary documentation to initiate a Competitive Selection Process (CSP) for an additional 10 MW from an eligible renewable energy supplier for 10 years, with sourcing planned from 26 December 2025 to 25 December 2035. Furthermore, the Company plans to conduct CSPs to replace its contract expiring in 2029. The contracts for 50 MW are expected to deliver over a period of 15 years, from 26 February 2029 to 25 February 2044.



GNPower Mariveles Energy Center Ltd. Co. (GMEC), formerly known as GNPower Mariveles Coal Plant, accounts for the largest share of the Company's power supply for 2024. On 10 August 2023, the Company requested a renegotiation of its contracted capacity with GMEC to address the impact of displaced capacities due to contestable customers switching to Retail Electric Suppliers (RES) under the Retail Competition and Open Access (RCOA), qualified end-users choosing the Green Energy Option Program (GEOP), the potential effects of customers participating in the Retail Aggregation Program, the growing number of Net-Metering End-Users (NMEs), and the potential integration of Distributed Energy Resources (DER). The renegotiation also aims to ensure the Company's compliance with the Renewable Portfolio Standards (RPS). As a result, the Company's contracted capacity with GMEC was reduced to 46.4 MW, effective 01 June 2024.

The table above outlines the Company's existing contracts, which are set to expire in 2026 and 2029. To address this, the Company is committed to conducting a Competitive Selection Process (CSP) to secure the necessary power supply agreements to replace the expiring contracts.

Currently, TEI is in negotiations with Sto. Nino Solar Power Corporation, an embedded renewable energy supplier, for a power supply agreement of 10 MW, with planned availability starting from 26 September 2025. Additionally, the Company is preparing the required documentation to initiate a CSP for an additional 10 MW from an eligible renewable energy supplier for 10 years, with sourcing anticipated from 26 December 2025 to 25 December 2035. Furthermore, the Company also plans to conduct CSPs for 50 MW to replace its contract expiring in 2029.



The graph above illustrates a supply deficit during certain periods. This deficit is primarily due to insufficient contracted capacity during peak hours. However, the overall supply has been sufficient to meet the Company's average demand in previous years.

Based on the Company's forecasted peak demand, the graph shows a supply deficit of 105.57 MW by 2033. This deficit is still apparent even after securing contracts for 50 MW to replace the expiring contract in 2029. To address this, the Company is in the process of determining the optimal level of baseload and peaking contracts needed to meet the forecasted average demand. Moreover, TEI is committed to conducting CSPs to secure the additional contracts once the optimal contracted capacity level has been determined.

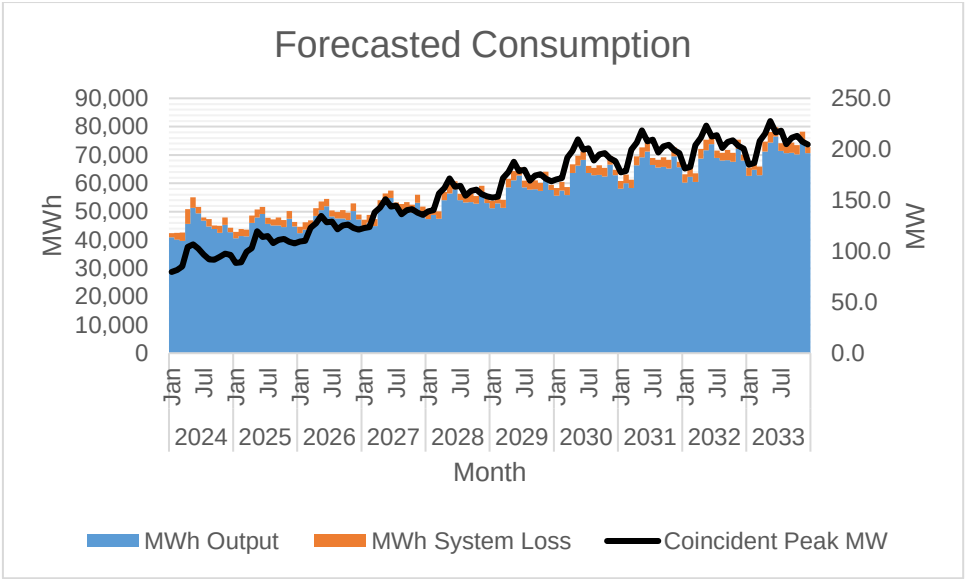
As mentioned above, TEI is currently in negotiations with Sto. Nino Solar Power Corporation, an embedded renewable energy supplier, for a power supply agreement of 10 MW, with planned availability starting from 26 September 2025. Also, the Company is in the process of preparing for a CSP for an additional 10 MW from an eligible renewable energy supplier for 10 years, with sourcing anticipated from 26 December 2025 to 25 December 2035. Furthermore, the Company is committed to conducting CSPs to secure the necessary power supply agreements to replace the expiring contracts.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	42,372	40,879	1,493	0.00%	3.52%
	Feb	42,516	40,069	2,447	0.00%	5.75%
	Mar	42,620	39,688	2,932	0.00%	6.88%
	Apr	50,820	45,681	5,139	0.00%	10.11%
	May	54,996	51,368	3,628	0.00%	6.60%
	Jun	51,656	49,421	2,235	0.00%	4.33%
	Jul	47,902	46,826	1,075	0.00%	2.24%
	Aug	47,396	44,774	2,621	0.00%	5.53%
	Sep	45,154	43,851	1,302	0.00%	2.88%
	Oct	44,954	42,521	2,433	0.00%	5.41%
	Nov	47,874	45,375	2,499	0.00%	5.22%
	Dec	44,267	42,728	1,539	0.00%	3.48%
2025	Jan	42,841	40,567	2,274	0.00%	5.31%
	Feb	43,861	41,354	2,507	0.00%	5.72%
	Mar	43,620	41,221	2,399	0.00%	5.50%
	Apr	48,631	46,006	2,626	0.00%	5.40%
	May	50,793	47,879	2,914	0.00%	5.74%
	Jun	51,666	49,136	2,531	0.00%	4.90%
	Jul	47,791	45,717	2,073	0.00%	4.34%
	Aug	47,243	45,059	2,184	0.00%	4.62%
	Sep	47,954	45,143	2,811	0.00%	5.86%
	Oct	47,065	44,531	2,534	0.00%	5.38%
	Nov	50,131	47,529	2,603	0.00%	5.19%
	Dec	46,336	44,734	1,602	0.00%	3.46%
2026	Jan	44,698	42,331	2,367	0.00%	5.29%
	Feb	46,216	43,606	2,610	0.00%	5.65%
	Mar	46,902	44,405	2,497	0.00%	5.32%
	Apr	51,234	48,501	2,733	0.00%	5.33%
	May	53,532	50,499	3,033	0.00%	5.67%
	Jun	54,477	51,842	2,634	0.00%	4.84%
	Jul	50,408	48,250	2,158	0.00%	4.28%
	Aug	49,832	47,559	2,273	0.00%	4.56%
	Sep	50,566	47,640	2,926	0.00%	5.79%
	Oct	49,669	47,031	2,638	0.00%	5.31%
	Nov	52,900	50,190	2,709	0.00%	5.12%
	Dec	48,912	47,244	1,668	0.00%	3.41%
2027	Jan	47,157	44,738	2,420	0.00%	5.13%
	Feb	48,786	46,117	2,669	0.00%	5.47%
	Mar	47,381	44,828	2,553	0.00%	5.39%

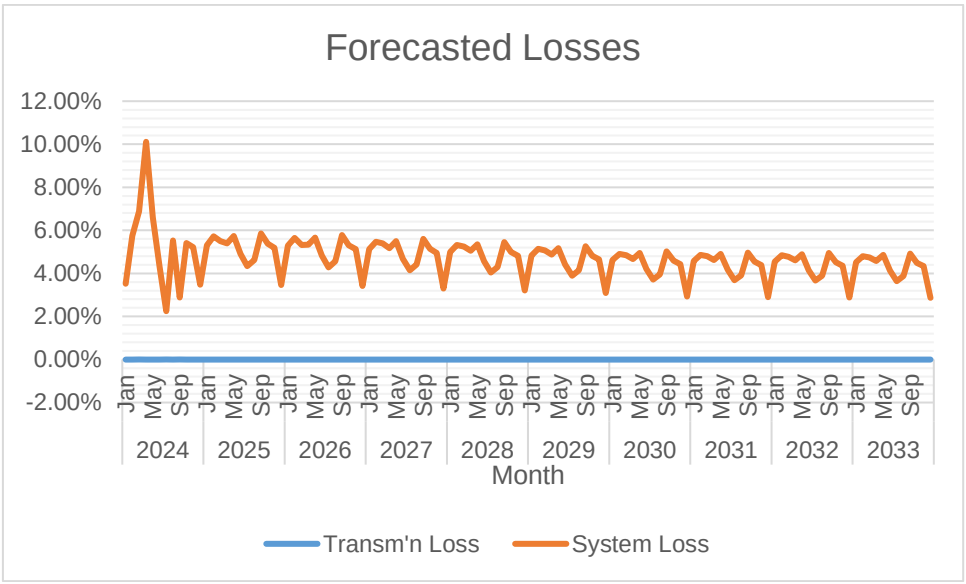
	Apr	53,979	51,185	2,794	0.00%	5.18%
	May	56,420	53,320	3,101	0.00%	5.50%
	Jun	57,463	54,769	2,693	0.00%	4.69%
	Jul	53,218	51,012	2,206	0.00%	4.15%
	Aug	52,625	50,301	2,324	0.00%	4.42%
	Sep	53,383	50,391	2,992	0.00%	5.60%
	Oct	52,483	49,786	2,697	0.00%	5.14%
	Nov	55,903	53,133	2,770	0.00%	4.96%
	Dec	51,742	50,036	1,705	0.00%	3.30%
2028	Jan	49,817	47,328	2,489	0.00%	5.00%
	Feb	51,560	48,815	2,745	0.00%	5.32%
	Mar	50,060	47,433	2,627	0.00%	5.25%
	Apr	56,961	54,086	2,875	0.00%	5.05%
	May	59,548	56,358	3,190	0.00%	5.36%
	Jun	60,688	57,918	2,771	0.00%	4.57%
	Jul	56,245	53,975	2,270	0.00%	4.04%
	Aug	55,631	53,240	2,391	0.00%	4.30%
	Sep	56,417	53,339	3,078	0.00%	5.46%
	Oct	55,509	52,735	2,774	0.00%	5.00%
	Nov	59,131	56,282	2,850	0.00%	4.82%
	Dec	54,782	53,027	1,754	0.00%	3.20%
2029	Jan	53,809	51,208	2,601	0.00%	4.83%
	Feb	55,734	52,866	2,868	0.00%	5.15%
	Mar	54,094	51,350	2,744	0.00%	5.07%
	Apr	61,559	58,556	3,003	0.00%	4.88%
	May	64,355	61,022	3,332	0.00%	5.18%
	Jun	65,654	62,759	2,894	0.00%	4.41%
	Jul	60,882	58,510	2,371	0.00%	3.89%
	Aug	60,231	57,734	2,498	0.00%	4.15%
	Sep	61,082	57,867	3,215	0.00%	5.26%
	Oct	60,179	57,281	2,898	0.00%	4.82%
	Nov	64,087	61,110	2,977	0.00%	4.65%
	Dec	59,470	57,637	1,833	0.00%	3.08%
2030	Jan	58,294	55,603	2,691	0.00%	4.62%
	Feb	60,440	57,472	2,968	0.00%	4.91%
	Mar	58,638	55,798	2,840	0.00%	4.84%
	Apr	66,715	63,608	3,108	0.00%	4.66%
	May	69,732	66,283	3,448	0.00%	4.95%
	Jun	71,217	68,222	2,995	0.00%	4.21%
	Jul	66,089	63,635	2,454	0.00%	3.71%
	Aug	65,401	62,817	2,585	0.00%	3.95%
	Sep	66,322	62,995	3,327	0.00%	5.02%
	Oct	65,433	62,433	2,999	0.00%	4.58%
	Nov	69,661	66,581	3,081	0.00%	4.42%
	Dec	64,776	62,880	1,897	0.00%	2.93%
2031	Jan	60,866	58,084	2,782	0.00%	4.57%
	Feb	63,102	60,034	3,068	0.00%	4.86%
	Mar	61,212	58,277	2,935	0.00%	4.80%
	Apr	69,564	66,352	3,213	0.00%	4.62%

	May	72,732	69,167	3,565	0.00%	4.90%
	Jun	74,298	71,202	3,096	0.00%	4.17%
	Jul	68,976	66,439	2,537	0.00%	3.68%
	Aug	68,266	65,594	2,672	0.00%	3.91%
	Sep	69,205	65,765	3,439	0.00%	4.97%
	Oct	68,292	65,192	3,100	0.00%	4.54%
	Nov	72,721	69,537	3,185	0.00%	4.38%
	Dec	67,623	65,662	1,960	0.00%	2.90%
2032	Jan	63,167	60,295	2,872	0.00%	4.55%
	Feb	65,479	62,311	3,167	0.00%	4.84%
	Mar	63,510	60,479	3,031	0.00%	4.77%
	Apr	72,069	68,752	3,317	0.00%	4.60%
	May	75,378	71,697	3,680	0.00%	4.88%
	Jun	77,010	73,813	3,197	0.00%	4.15%
	Jul	71,523	68,904	2,619	0.00%	3.66%
	Aug	70,796	68,038	2,759	0.00%	3.90%
	Sep	71,745	68,194	3,551	0.00%	4.95%
	Oct	70,808	67,607	3,201	0.00%	4.52%
	Nov	75,422	72,134	3,288	0.00%	4.36%
	Dec	70,123	68,099	2,024	0.00%	2.89%
2033	Jan	65,587	62,626	2,962	0.00%	4.52%
	Feb	67,987	64,721	3,266	0.00%	4.80%
	Mar	65,930	62,806	3,125	0.00%	4.74%
	Apr	74,689	71,269	3,420	0.00%	4.58%
	May	78,140	74,346	3,795	0.00%	4.86%
	Jun	79,843	76,547	3,296	0.00%	4.13%
	Jul	74,189	71,489	2,700	0.00%	3.64%
	Aug	73,448	70,604	2,844	0.00%	3.87%
	Sep	74,408	70,747	3,661	0.00%	4.92%
	Oct	73,444	70,144	3,300	0.00%	4.49%
	Nov	78,255	74,865	3,390	0.00%	4.33%
	Dec	72,755	70,668	2,087	0.00%	2.87%

System Loss was calculated through a Load Flow Study using Synergi Electric software. The same study shows that the Company’s distribution system adequately conveys electricity to customers.



MWh Sales is expected to grow at an average rate of 5.89% annually.

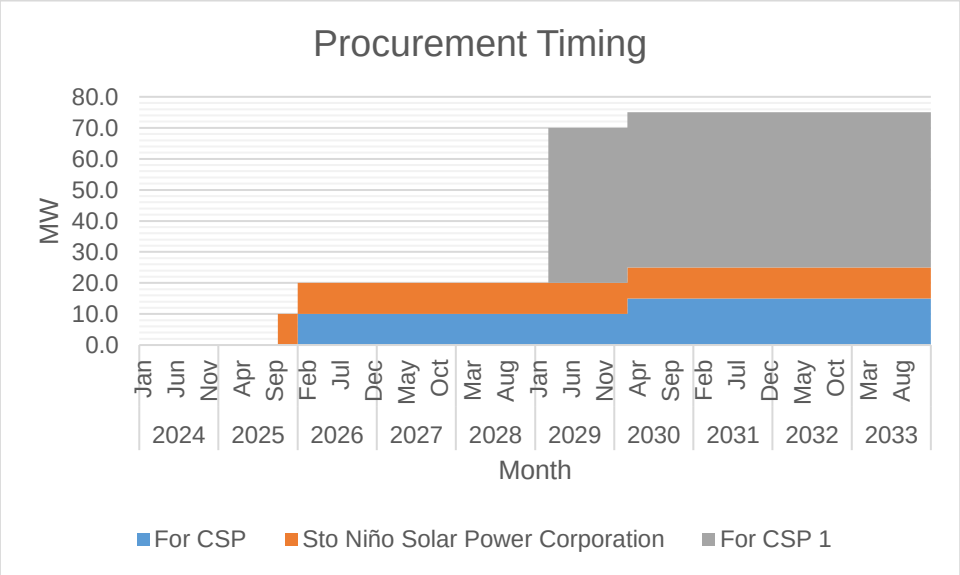


In 2024, monthly system loss is expected to range from 2.24% to 10.11%.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2007-121 RC	Base	GN Power Mariveles Coal Plant Ltd.	46.4	231,713	2/26/2014	2/25/2029
2008-060 RC	Peaking	Tarlac Power Corporation	14.88	36,000	4/11/2011	4/10/2026

The PSA with GN Power Mariveles Coal Plant Ltd. under ERC Case No. 2007-121RC covers the Company's base requirements, while the PSA with Tarlac Power Corporation under ERC Case No. 2008-060RC2 addresses its peaking requirements.

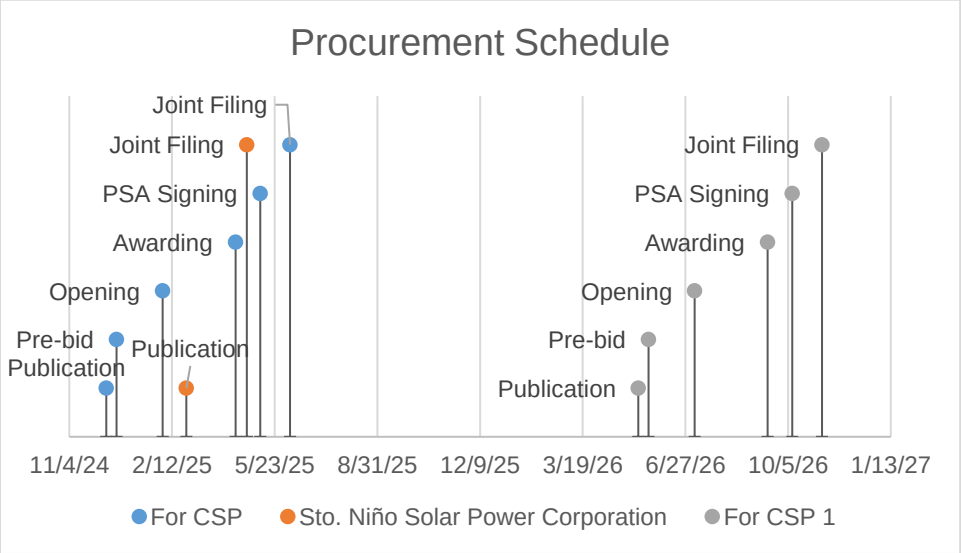


To address the expiring contracts and ensure compliance with Renewable Portfolio Standards (RPS), TEI has initiated negotiations with Sto. Nino Solar Power Corporation, an embedded renewable energy supplier, for a power supply agreement of 10 MW, with planned availability from 26 September 2025 to 25 September 2045.

Moreover, the Company is preparing to conduct a Competitive Selection Process (CSP) for an additional 10 MW from an eligible renewable energy supplier, covering 10 years, with sourcing planned from 26 December 2025 to 25 December 2035.

Furthermore, the Company is committed to conducting a Competitive Selection Process (CSP) to secure the necessary power supply agreements to replace its contract with GMEC upon its expiration in 2029.

	For CSP	Sto. Niño Solar Power Corporation	For CSP 1
Type	Peaking	Peaking	Base
Minimum MW	10.00	10.00	50.00
Minimum MWh/yr	13,140	17,792	240,900
Maximum MW	10.00	10.00	50.00
Maximum MWh	26,280	26,352	297,840
PSA Start	12/26/2025	9/26/2025	2/26/2029
PSA End	12/25/2035	9/25/2045	2/25/2044
Publication	12/10/2024	02/26/2025	05/12/2026
Pre-bid	12/20/2024		05/22/2026
Opening	02/03/2025		07/06/2026
Awarding	04/15/2025		09/15/2026
PSA Signing	05/09/2025		10/09/2026
Joint Filing	06/07/2025	04/26/2025	11/07/2026

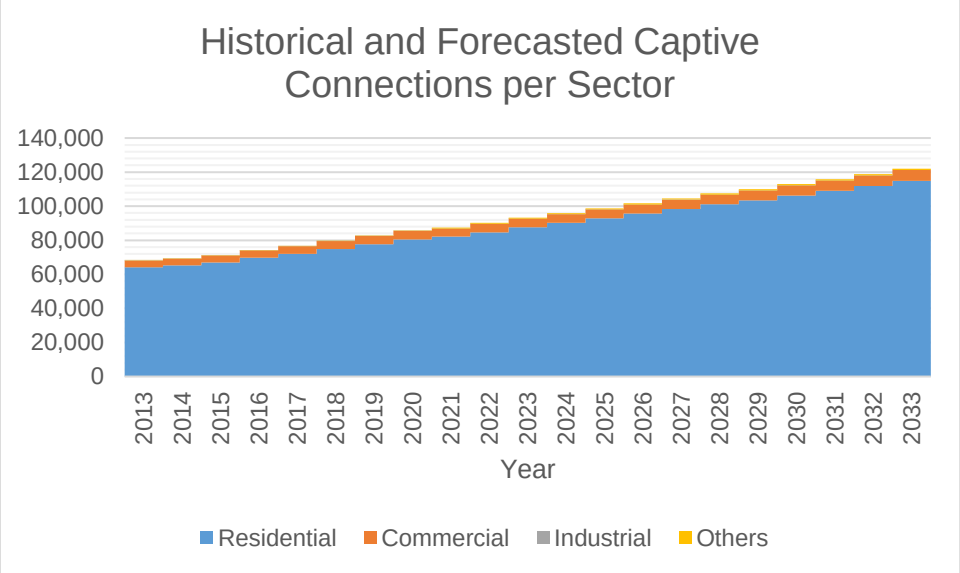


The planned procurement of 10 MW from Sto. Nino Solar Power Corporation, scheduled to commence on 26 September 2025, will not require a Competitive Selection Process in accordance with Section 2.3.4 of the DOE Department Circular DC2023-06-0021.

On the other hand, the first publication to initiate the CSP for the procurement of an additional 10 MW is scheduled for 10 December 2024, while the joint filing for approval by the Energy Regulatory Commission is set to occur on or before 07 June 2025, or within 180 days thereafter, in accordance with the DOE's 2021 CSP Policy, as amended.

Furthermore, the initial publication to initiate the planned CSPs for the initial 50 MW to replace the existing supply from GMEC expiring in 2029, is scheduled for 12 May 2026. The joint filing for approval by the Energy Regulatory Commission is expected to occur on or before 07 November 2026, or within 180 days thereafter, in accordance with the DOE's 2021 CSP Policy, as amended.

Captive Customer Connections



The number of residential customers is expected to grow at an annual rate of 2.72%, while the number of commercial customers is projected to increase by 2.31% each year.

The data on Public Building and Water System connections from 2000 to 2020 are unavailable, as the Company began identifying and classifying these customers only in 2021.