Power Supply Procurement Plan
2025-2034

ZAMSURECO-1

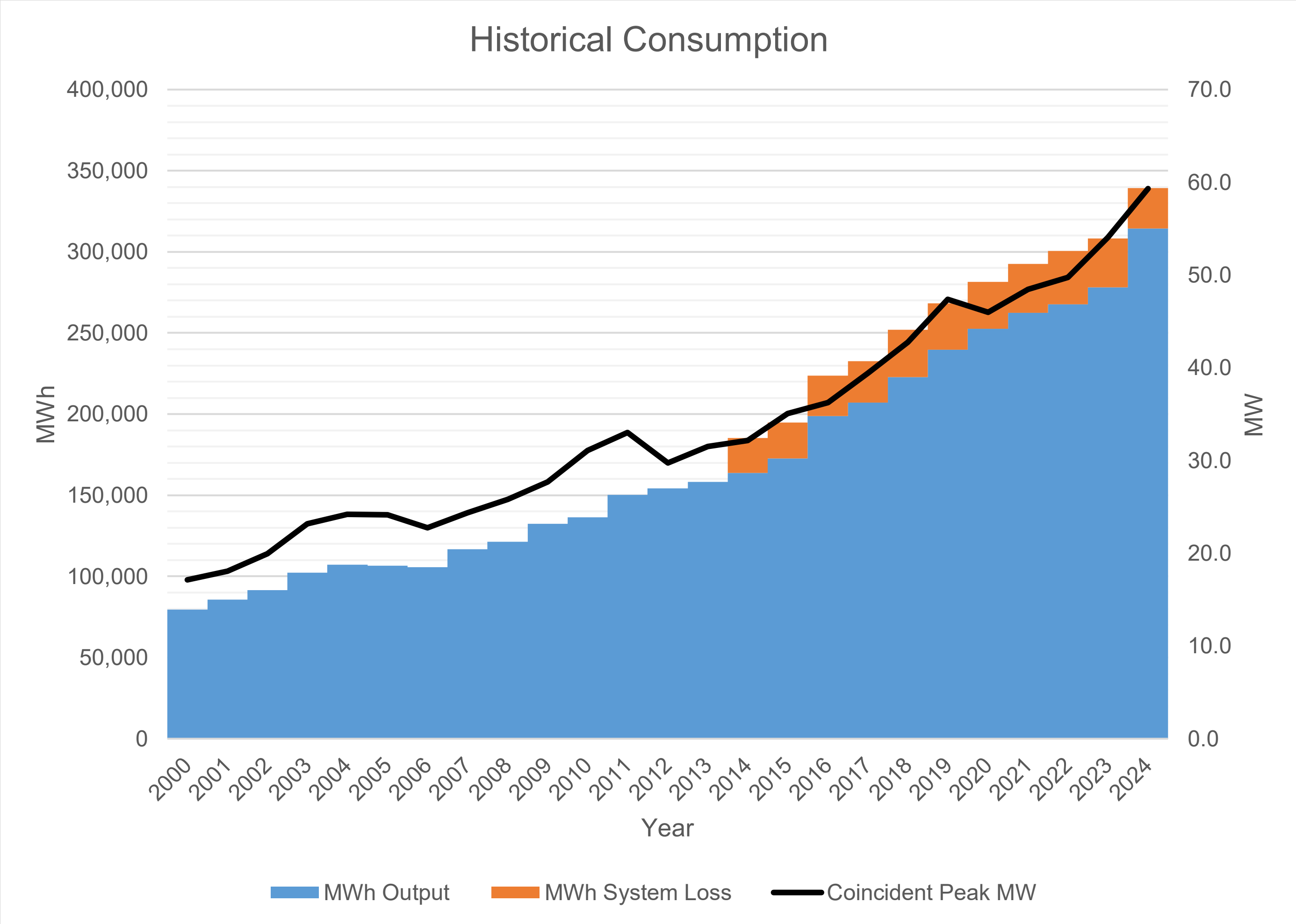
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	17.13	91,923	0	91,923	79,470	0	61%	-13.55%	0.00%	0.00%
2001	18.06	98,507	0	98,507	85,753	0	62%	-12.95%	0.00%	0.00%
2002	19.92	106,838	0	106,838	91,480	0	61%	-14.38%	0.00%	0.00%
2003	23.15	116,711	0	116,711	102,151	0	58%	-12.48%	0.00%	0.00%
2004	24.19	122,837	0	122,837	107,221	0	58%	-12.71%	0.00%	0.00%
2005	24.12	126,260	0	126,260	106,562	0	60%	-15.60%	0.00%	0.00%
2006	22.74	126,736	0	126,736	105,532	0	64%	-16.73%	0.00%	0.00%
2007	24.38	132,728	0	132,728	116,825	0	62%	-11.98%	0.00%	0.00%
2008	25.80	137,218	0	137,218	121,479	0	61%	-11.47%	0.00%	0.00%
2009	27.68	148,325	0	148,325	132,475	0	61%	-10.69%	0.00%	0.00%
2010	31.08	154,160	0	154,160	136,308	0	57%	-11.58%	0.00%	0.00%
2011	33.00	167,227	0	167,227	150,253	0	58%	-10.15%	0.00%	0.00%
2012	29.73	173,818	0	173,818	154,148	0	67%	-11.32%	0.00%	0.00%
2013	31.53	179,356	0	179,356	158,291	0	65%	-11.74%	0.00%	0.00%
2014	32.15	185,551	0	185,551	163,825	21,616	66%	-0.06%	0.00%	11.65%
2015	35.07	194,702	0	194,702	172,656	22,046	63%	0.00%	0.00%	11.32%
2016	36.22	223,836	0	223,836	198,855	24,981	71%	0.00%	0.00%	11.16%
2017	39.44	231,647	0	231,647	207,106	25,442	67%	0.39%	0.00%	10.98%
2018	42.76	253,011	0	253,011	222,766	29,377	68%	-0.34%	0.00%	11.61%
2019	47.39	273,581	0	273,581	239,737	28,654	66%	-1.90%	0.00%	10.47%
2020	45.96	288,361	0	281,458	252,624	28,834	70%	0.00%	2.39%	10.24%
2021	48.44	300,951	0	292,710	262,520	30,190	69%	0.00%	2.74%	10.31%
2022	49.73	310,632	0	300,481	267,748	32,733	69%	0.00%	3.27%	10.89%
2023	54.06	333,182	6,896	308,379	278,123	30,255	65%	0.00%	7.44%	9.81%
2024	59.32	389,084	9,723	339,325	314,435	24,890	65%	0.00%	12.79%	7.34%

Peak Demand increased from 54.06 MW in 2023 to 59.32 MW in 2024 at a rate of 9.73% due to influx of number of investments coming in and considering that Pagadian City is the Regional Government Center of Region-IX. We expected that by year 2025 spot loads would come in such as commercial building like Robinsons, Gaisano Pagadian Phase 2 and Princeton Hotel among others. MWh Offtake increased from 333,182 MWh in 2023 to 389,084 MWh in 2024 at a rate of 16.78% due to influx of consumers and climate conditions. Within the same period, Load Factor is at 65%. There was an abrupt change in consumption on April 2024 due to high heat index experience during summer season.

2024	MWh (Input - Offtake)	Transmission Loss
Jan	-4,566	**14.19%**
Feb	-4,427	**14.51%**
Mar	-3,281	11.09%
Apr	-3,629	10.57%
May	-4,119	12.05%
Jun	-3,435	10.22%
Jul	-2,673	8.92%
Aug	-3,716	11.81%
Sep	-6,293	**19.18%**
Oct	-4,876	**15.00%**
Nov	-3,510	10.38%
Dec	-5,234	**15.35%**

High transmission loss in some of the billing month attributed to ZAMSURECO-I's transactions in the WESM. During said months, the Cooperative's energy sold to WESM were significantly higher than the other months. This resulted in higher energy offtake, hence, higher transmission loss. On the other hand, low transmission loss attributed less energy sold to WESM considering that ZAMSURECO-I maximizes its Bilateral Contracted Quantity (BCQ) particularly for the month of April as the peaking season.



MWh Output increased from year 2023 to year 2024 at a rate of 13.06%, while MWh System Loss decreased at a rate of 17.73% within the same period.

Historically, Transmission Loss ranged from 7.44% to 12.79% while System Loss ranged from 9.81% to 7.34%. Transmission Loss peaked at 12.79% on year 2024 because of exposure to WESM. System Loss peaked at 7.34% on year 2024 because of embedded power supply and uprating of conductors from 1/0 to 4/0.

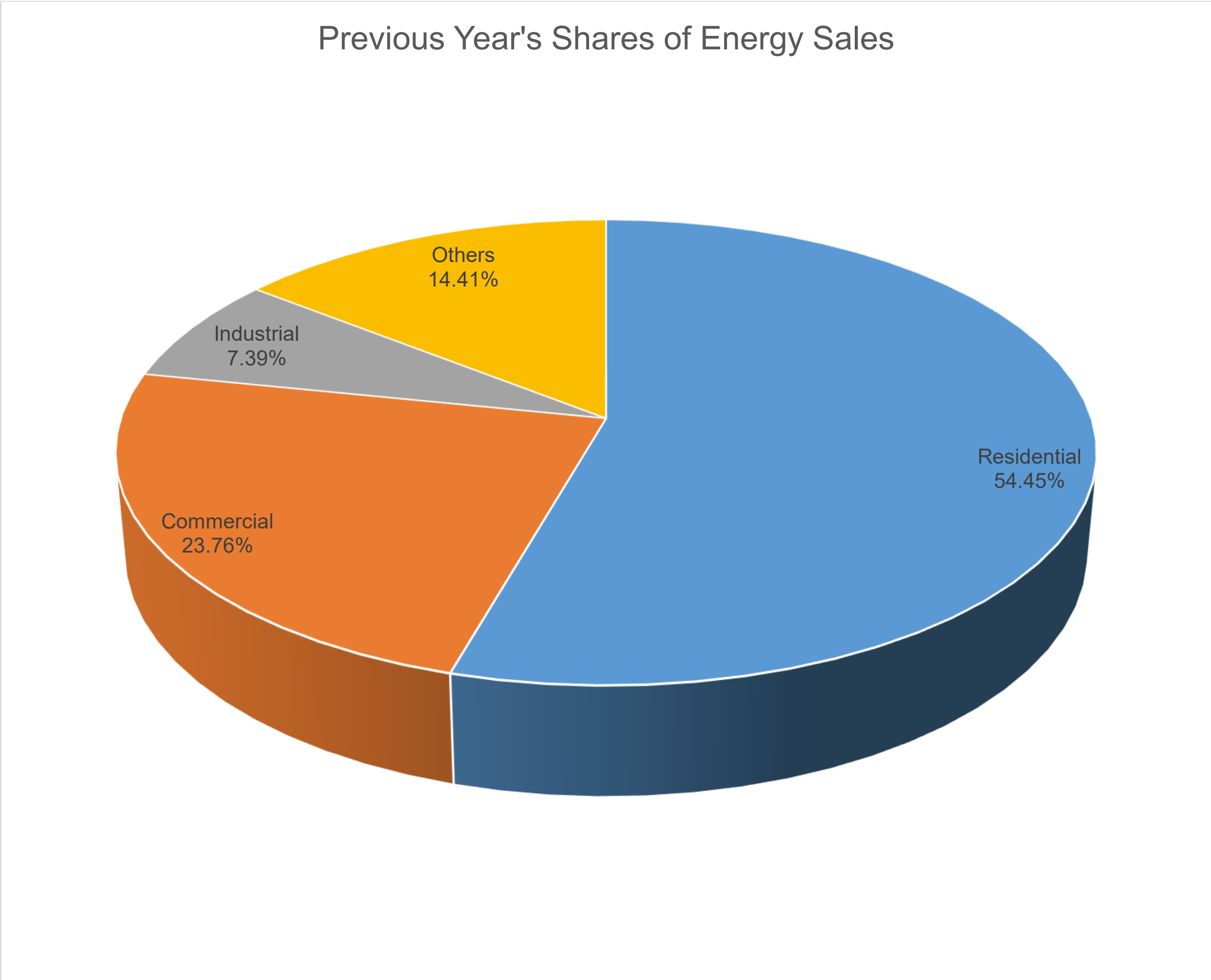
Please note that transmission loss from year 2000 to 2019 was at 0% considering that the MWh Output and MWh Input are of same value. Currently, the NGCP Billing Determinant Energy (BDE) is used as the MWh Input, enabling the planners to compute the transmission loss.

Notes:

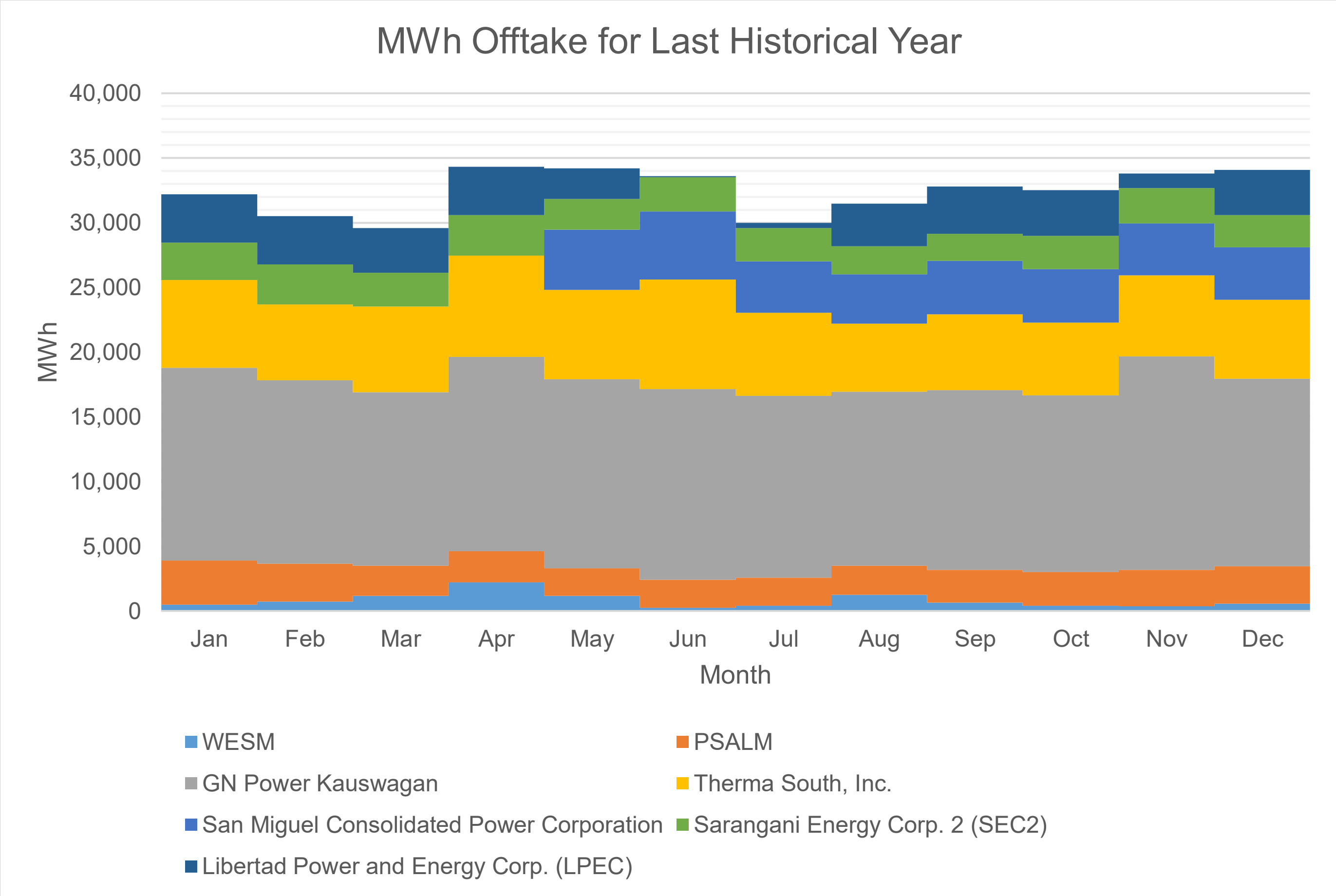
1. In 2017, there is a minor deficit in power supply. The reason is that during that time, the power crisis in Mindanao Grid has not been fully solved yet. The crisis was effectively solved when the major power plant projects went into commercial operation in 2018 and onwards.

In 2000 to 2014, there is a seeming oversupply. However, there is no oversupply since during this period, ZAMSURECO-I has only one power supplier, which is the NPC. The excess energy is a result of subsequent revisions in the presentation/inputting of data.

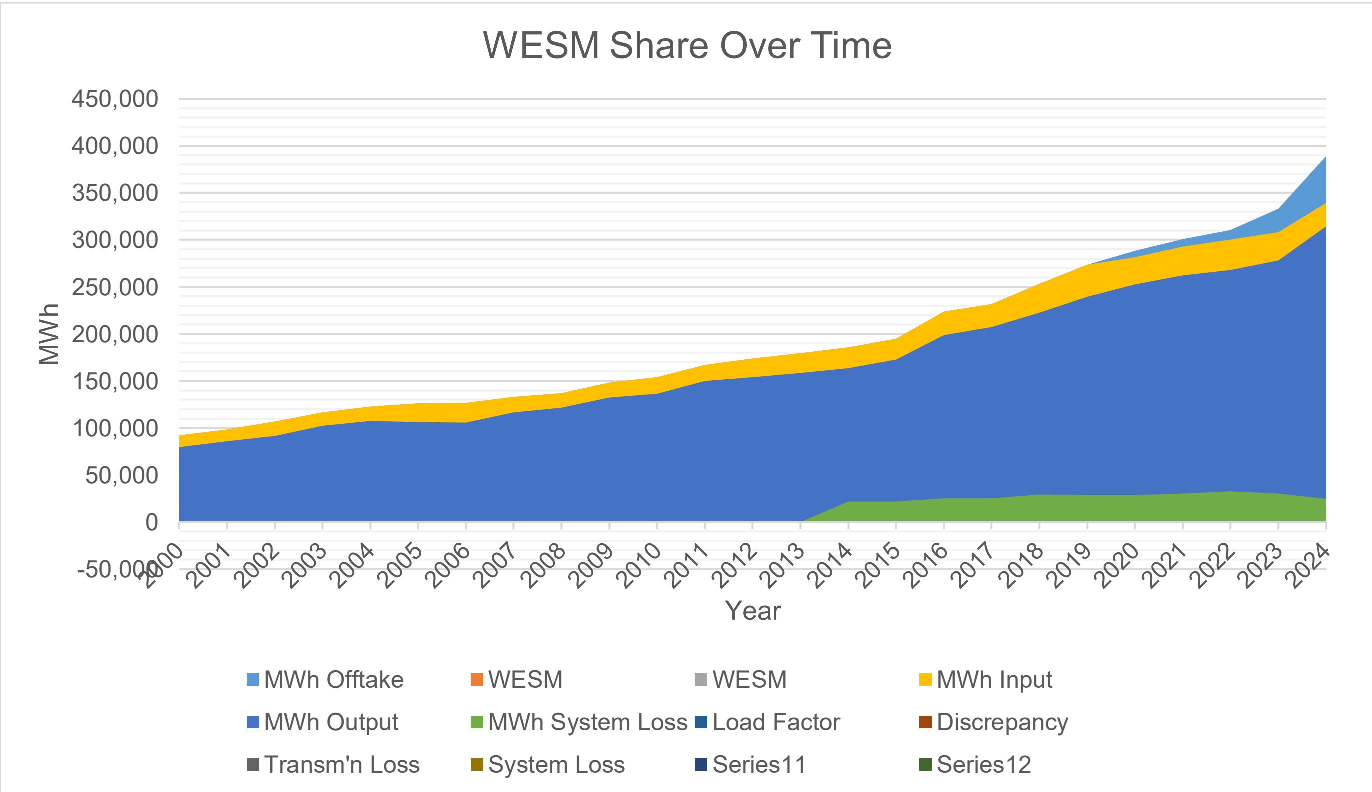
During the months of June, July and November of the non-technical loss was the reason why system loss increased, which includes among others, pilferage and other technical factors. To address this, ZAMSURECO-1 had intensified its anti-pilferage programs. The coop also strengthens the replacement of stuck-up or inaccurate KWh meters.



Residential customers account for the bulk of energy sales at 54.45% due to the high number of connections. In contrast, Industrial customers accounted for only 7.39% of energy sales due to the low number of connections.

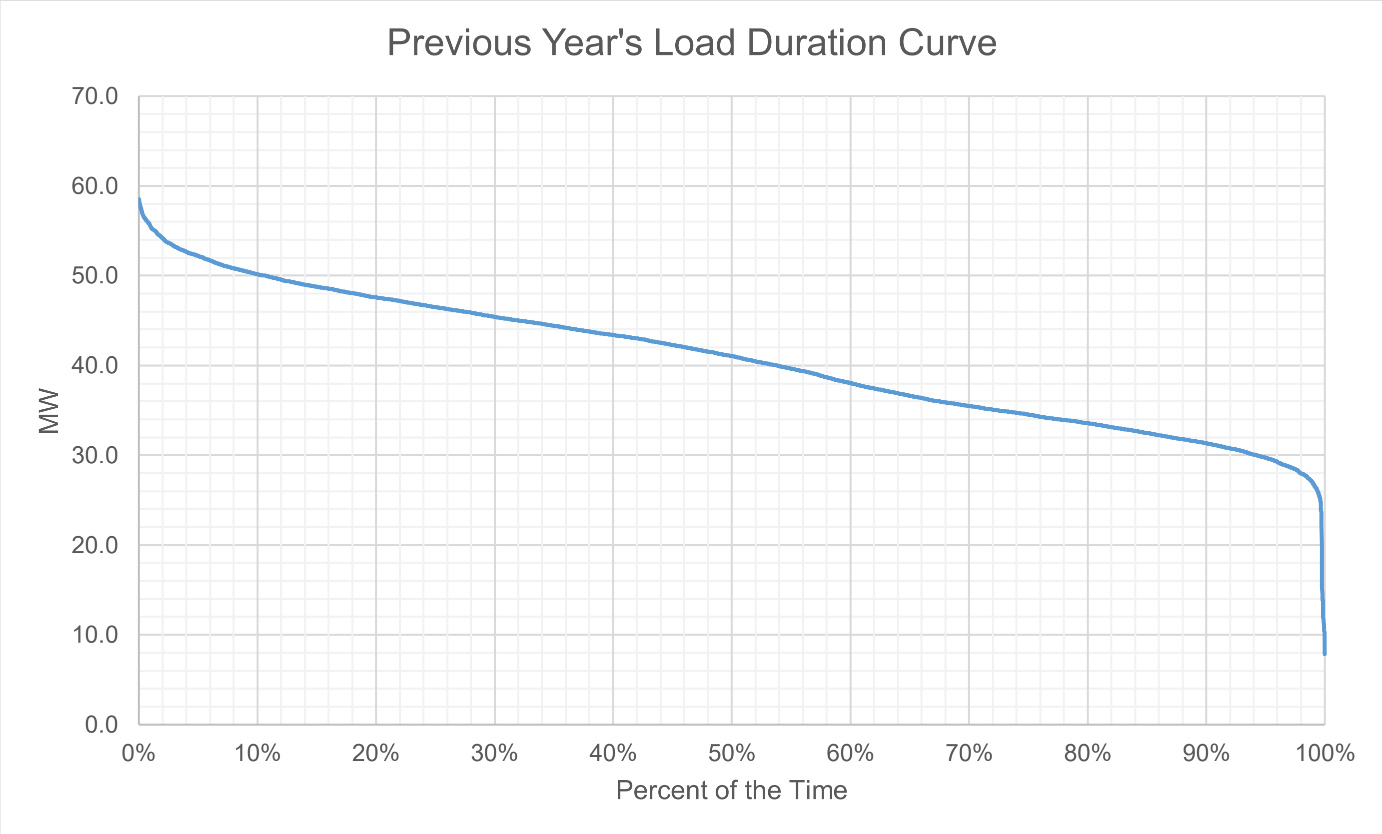


For 2024, the total Offtake for the last historical year is lower than the quantity stipulated in the PSA. The PSA with GN Power Kauswagan accounts for the bulk of MWh Offtake.

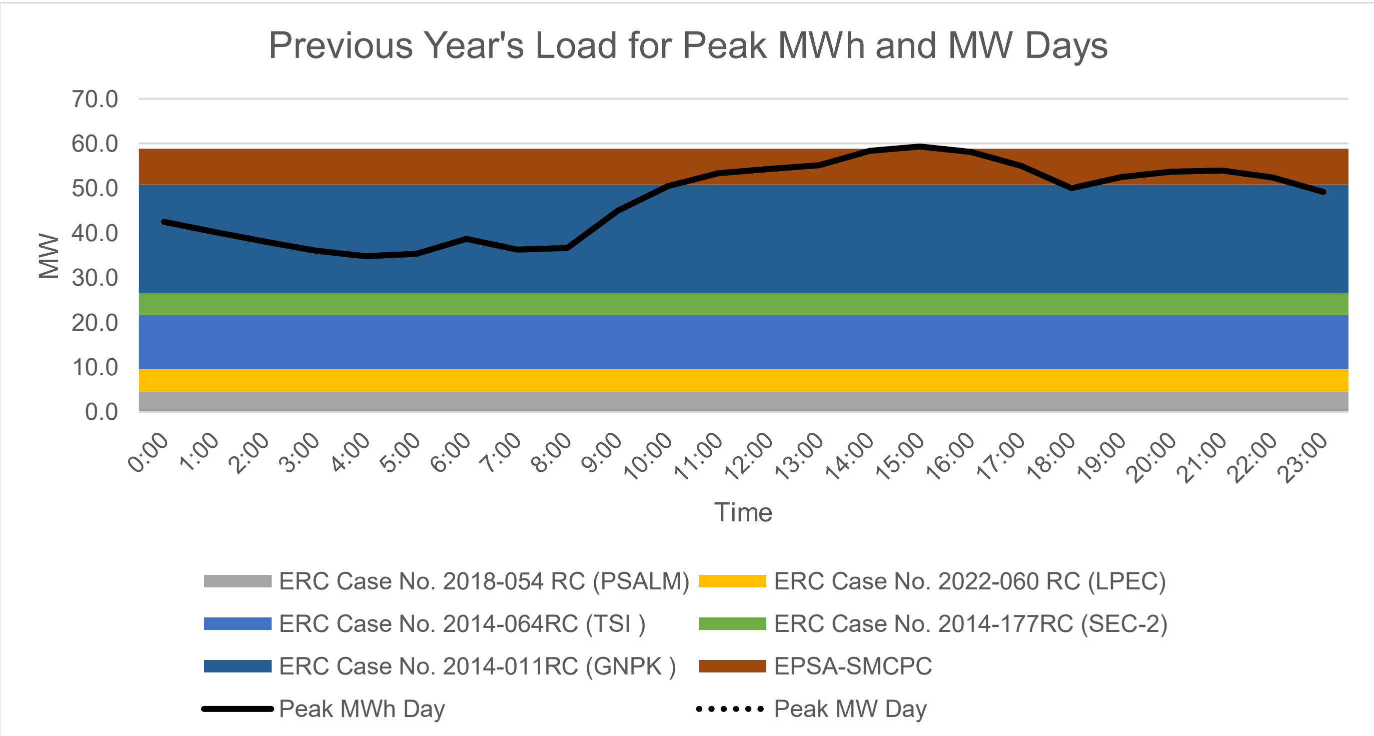


WESM Offtake increased from 1,168 MWh in the month of March 2024 to 2,226 MWh in the month of April 2024 at a rate of 90.60% due to abrupt increase of system demand as compared to the previous month and an unplanned outage of one of our existing contracted IPPs (GNPK). The share of WESM in the total Offtake ranged from 0.69% to 6.94%.

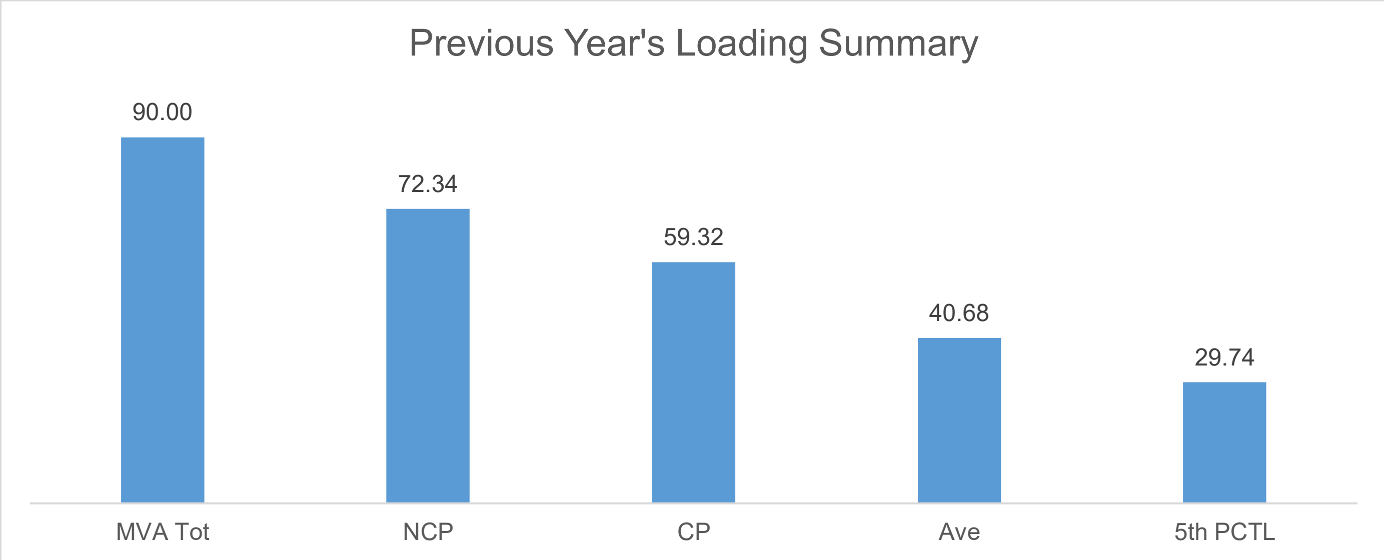
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 7.84MW and the maximum load is 59.32 MW for the last historical year. The zero (0) MW is due to Scheduled Power Interruption carried out by NGCP.



Peak MW occurred in the month of April 2024, summer season and high heat index. Peak daily MWh occurred on 3pm of April 22, 2024 due to hot/humid climate throughout the entire franchise area. As shown in the Load Curves, the available supply is lower than the Peak Demand that results to WESM purchases exposure during those periods.



The Non-coincident Peak Demand is 72.34 MW, which is around 80.38% of the total substation capacity of 90MVA at a power factor of 0.9. The load factor or the ratio between the Average Load of 40.68 MW and the Non-coincident Peak Demand is 56% of. A safe estimate of the true minimum load is the fifth percentile load of 29.74 MW which is 40% of the Non-coincident Peak Demand.

The total installed capacity of ZAMSURECO-I as of December 2024 is 100MW.
These are 10MVA Culo Substation, 5MVA Switch Substation, 10MVA San Jose Substation, 5MVA Upper Bayao Substation, 2 x 10MVA Tiguma Substation, 2 x 10MVA Sta. Maria Substation, 10MVA Balangasan Substation, 10 MVA Tikwas Substation and 10MVA San Miguel Substation.

Please take note that the total actual installed capacity substation that currently operational of ZAMSURECO-I as of December 2024 is 90MW because the one (1) unit of 10MVA Tiguma Substation is temporary decommissioned.

Metering Point	Substation MVA	Substation Peak MW	% Loading	Remarks
Switch (M01)	5	4.412	88%	Above 70% loading
Balangasan (M04)	10	8.995	90%	Above 70% loading
San Miguel (M05)	10	7.442	74%	Above 70% loading
Unit-1 Sta. Maria (M06)	10	7.877	87%	Above 70% loading
Culo (M07)	10	8.492	85%	Above 70% loading
San Jose (M08)	10	5.108	58%	Within allowable
Upper Bayao (M09)	5	4.034	82%	Above 70% loading
Unit-2 Tiguma (M10)	10	8.882	89%	Above 70% loading
Tikwas (M11)	10	6.218	62%	Within allowable
Unit-2 Sta. Maria (M12)	10	10.882	109%	Above 70% loading

The substations loaded at above 70% are Switch (M01), Balangasan (M04), San Miguel (M05), Unit-1 Sta. Maria (M06), Culo (M07), Upper Bayao (M09), Unit-2 Tiguma (M10) and Unit-2 Sta. Maria (M12). While San Jose (M08) and Tikwas (M11) are within allowable percentage loading capacity.

As shown on the table above, it shows that the highest percent (%) loading for the year 2024 is the Unit-2 Sta. Maria (M12). The cause of this was due to continuous increase of demand considering that its load covers the city of Pagadian (the capital city of Zamboanga del Sur).

Procurement of Projects initiated by ZAMSURECO-I, which also includes in ZAMSURECO-I's CAPEX Program, for the solution of overloading problem of the substations are as follows;

- The overloading problem of Switch (M01) and Culo (M07) Substation will be addressed by the establishment of 10MVA Power Substation at Barangay Panagaan, Mahayag, Zamboanga del Sur.

- The overloading problem of Balangasan (M04) Substation will be solved by uprating the existing 10MVA Power Transformer into 20MVA Power Transformer which is currently ongoing.

- The overloading problem of Unit-1 Sta. Maria (M06) and Unit-2 Sta. Maria (M12) Substation, both located at Brgy. Sta. Maria, Pagadian City, will be addressed upon the energization of the 20MVA Balangasan Substation which is currently ongoing.

- The overloading problem of Upper Bayao (M09) and Unit-2 Tiguma (M10) Substation located at Brgy. Tiguma, Pagadian City, will be solved once the Unit-1 Tiguma (M02) Power Transformer will be placed back to service.

Forecasted Consumption Data

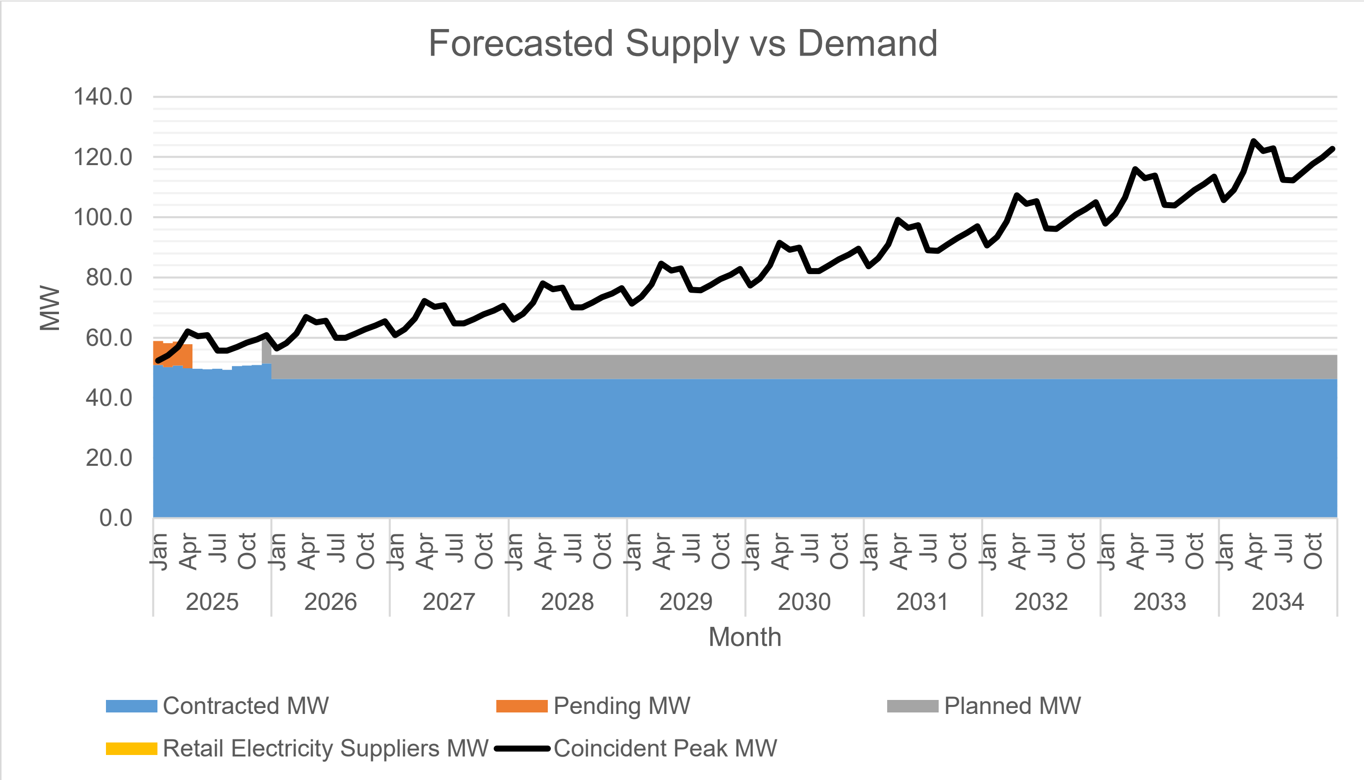
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2025	Jan	52.35	50.82	8.00	0.000		97%	112%	6.47
	Feb	54.00	50.20	8.00	0.000		93%	108%	4.20
	Mar	56.95	50.62	8.00	0.000		89%	103%	1.67
	Apr	62.02	49.87	8.00	0.000		80%	93%	-4.15
	May	60.38	49.72	0.00	0.000		82%	82%	-10.67
	Jun	60.86	49.47	0.00	0.000		81%	81%	-11.39
	Jul	55.68	49.67	0.00	0.000		89%	89%	-6.02
	Aug	55.59	49.24	0.00	0.000		89%	89%	-6.35
	Sep	56.90	50.50	0.00	0.000		89%	89%	-6.41
	Oct	58.28	50.74	0.00	0.000		87%	87%	-7.54
	Nov	59.35	50.92	0.00	0.000		86%	86%	-8.43
	Dec	60.73	51.34	0.00	8.000		85%	98%	-1.39
2026	Jan	56.38	46.24	0.00	8.000		82%	96%	-2.14
	Feb	58.16	46.24	0.00	8.000		80%	93%	-3.92
	Mar	61.34	46.24	0.00	8.000		75%	88%	-7.10
	Apr	66.80	46.24	0.00	8.000		69%	81%	-12.56
	May	65.04	46.24	0.00	8.000		71%	83%	-10.80
	Jun	65.55	46.24	0.00	8.000		71%	83%	-11.31
	Jul	59.97	46.24	0.00	8.000		77%	90%	-5.73
	Aug	59.87	46.24	0.00	8.000		77%	91%	-5.63
	Sep	61.29	46.24	0.00	8.000		75%	88%	-7.05
	Oct	62.78	46.24	0.00	8.000		74%	86%	-8.54
	Nov	63.92	46.24	0.00	8.000		72%	85%	-9.68
	Dec	65.41	46.24	0.00	8.000		71%	83%	-11.17
2027	Jan	60.89	46.24	0.00	8.000		76%	89%	-6.65
	Feb	62.81	46.24	0.00	8.000		74%	86%	-8.57
	Mar	66.24	46.24	0.00	8.000		70%	82%	-12.00
	Apr	72.14	46.24	0.00	8.000		64%	75%	-17.90
	May	70.24	46.24	0.00	8.000		66%	77%	-16.00

	Jun	70.79	46.24	0.00	8.000		65%	77%	-16.55
	Jul	64.77	46.24	0.00	8.000		71%	84%	-10.53
	Aug	64.66	46.24	0.00	8.000		72%	84%	-10.42
	Sep	66.19	46.24	0.00	8.000		70%	82%	-11.95
	Oct	67.79	46.24	0.00	8.000		68%	80%	-13.55
	Nov	69.03	46.24	0.00	8.000		67%	79%	-14.79
	Dec	70.63	46.24	0.00	8.000		65%	77%	-16.39
2028	Jan	65.87	46.24	0.00	8.000		70%	82%	-11.63
	Feb	67.95	46.24	0.00	8.000		68%	80%	-13.71
	Mar	71.66	46.24	0.00	8.000		65%	76%	-17.42
	Apr	78.04	46.24	0.00	8.000		59%	69%	-23.80
	May	75.98	46.24	0.00	8.000		61%	71%	-21.74
	Jun	76.58	46.24	0.00	8.000		60%	71%	-22.34
	Jul	70.07	46.24	0.00	8.000		66%	77%	-15.83
	Aug	69.95	46.24	0.00	8.000		66%	78%	-15.71
	Sep	71.60	46.24	0.00	8.000		65%	76%	-17.36
	Oct	73.34	46.24	0.00	8.000		63%	74%	-19.10
	Nov	74.68	46.24	0.00	8.000		62%	73%	-20.44
	Dec	76.41	46.24	0.00	8.000		61%	71%	-22.17
2029	Jan	71.33	46.24	0.00	8.000		65%	76%	-17.09
	Feb	73.58	46.24	0.00	8.000		63%	74%	-19.34
	Mar	77.60	46.24	0.00	8.000		60%	70%	-23.36
	Apr	84.51	46.24	0.00	8.000		55%	64%	-30.27
	May	82.28	46.24	0.00	8.000		56%	66%	-28.04
	Jun	82.93	46.24	0.00	8.000		56%	65%	-28.69
	Jul	75.87	46.24	0.00	8.000		61%	71%	-21.63
	Aug	75.75	46.24	0.00	8.000		61%	72%	-21.51
	Sep	77.54	46.24	0.00	8.000		60%	70%	-23.30
	Oct	79.42	46.24	0.00	8.000		58%	68%	-25.18
	Nov	80.86	46.24	0.00	8.000		57%	67%	-26.62
	Dec	82.74	46.24	0.00	8.000		56%	66%	-28.50
2030	Jan	77.26	46.24	0.00	8.000		60%	70%	-23.02
	Feb	79.70	46.24	0.00	8.000		58%	68%	-25.46
	Mar	84.05	46.24	0.00	8.000		55%	65%	-29.81
	Apr	91.54	46.24	0.00	8.000		51%	59%	-37.30

	May	89.12	46.24	0.00	8.000		52%	61%	-34.88
	Jun	89.82	46.24	0.00	8.000		51%	60%	-35.58
	Jul	82.18	46.24	0.00	8.000		56%	66%	-27.94
	Aug	82.04	46.24	0.00	8.000		56%	66%	-27.80
	Sep	83.98	46.24	0.00	8.000		55%	65%	-29.74
	Oct	86.02	46.24	0.00	8.000		54%	63%	-31.78
	Nov	87.59	46.24	0.00	8.000		53%	62%	-33.35
	Dec	89.62	46.24	0.00	8.000		52%	61%	-35.38
2031	Jan	83.66	46.24	0.00	8.000		55%	65%	-29.42
	Feb	86.30	46.24	0.00	8.000		54%	63%	-32.06
	Mar	91.02	46.24	0.00	8.000		51%	60%	-36.78
	Apr	99.13	46.24	0.00	8.000		47%	55%	-44.89
	May	96.51	46.24	0.00	8.000		48%	56%	-42.27
	Jun	97.27	46.24	0.00	8.000		48%	56%	-43.03
	Jul	89.00	46.24	0.00	8.000		52%	61%	-34.76
	Aug	88.85	46.24	0.00	8.000		52%	61%	-34.61
	Sep	90.95	46.24	0.00	8.000		51%	60%	-36.71
	Oct	93.15	46.24	0.00	8.000		50%	58%	-38.91
	Nov	94.85	46.24	0.00	8.000		49%	57%	-40.61
	Dec	97.05	46.24	0.00	8.000		48%	56%	-42.81
2032	Jan	90.54	46.24	0.00	8.000		51%	60%	-36.30
	Feb	93.40	46.24	0.00	8.000		50%	58%	-39.16
	Mar	98.50	46.24	0.00	8.000		47%	55%	-44.26
	Apr	107.28	46.24	0.00	8.000		43%	51%	-53.04
	May	104.44	46.24	0.00	8.000		44%	52%	-50.20
	Jun	105.27	46.24	0.00	8.000		44%	52%	-51.03
	Jul	96.31	46.24	0.00	8.000		48%	56%	-42.07
	Aug	96.15	46.24	0.00	8.000		48%	56%	-41.91
	Sep	98.43	46.24	0.00	8.000		47%	55%	-44.19
	Oct	100.81	46.24	0.00	8.000		46%	54%	-46.57
	Nov	102.65	46.24	0.00	8.000		45%	53%	-48.41
	Dec	105.04	46.24	0.00	8.000		44%	52%	-50.80
2033	Jan	97.90	46.24	0.00	8.000		47%	55%	-43.66
	Feb	100.99	46.24	0.00	8.000		46%	54%	-46.75
	Mar	106.51	46.24	0.00	8.000		43%	51%	-52.27

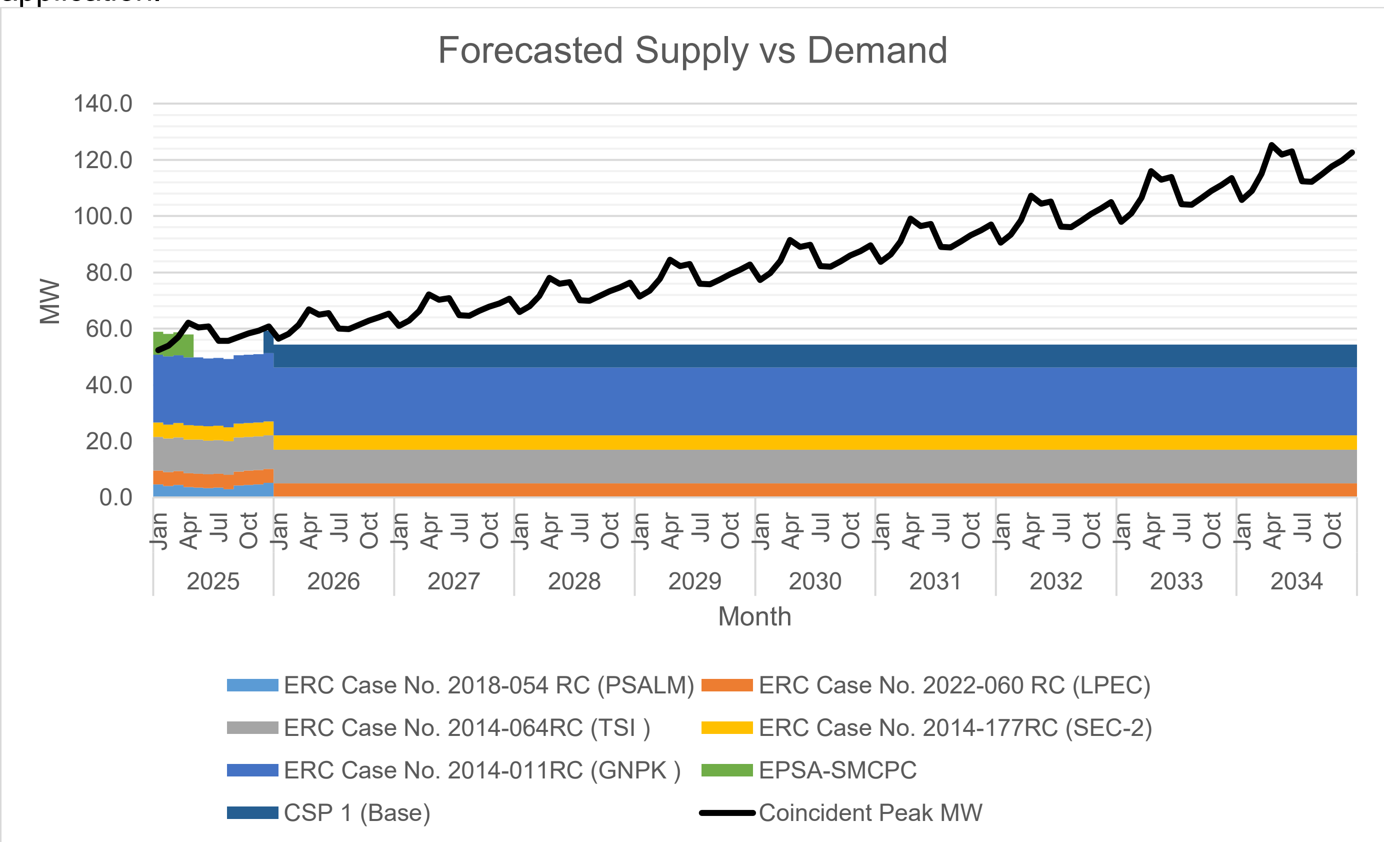
	Apr	115.99	46.24	0.00	8.000		40%	47%	-61.75
	May	112.93	46.24	0.00	8.000		41%	48%	-58.69
	Jun	113.82	46.24	0.00	8.000		41%	48%	-59.58
	Jul	104.14	46.24	0.00	8.000		44%	52%	-49.90
	Aug	103.96	46.24	0.00	8.000		44%	52%	-49.72
	Sep	106.42	46.24	0.00	8.000		43%	51%	-52.18
	Oct	109.00	46.24	0.00	8.000		42%	50%	-54.76
	Nov	110.98	46.24	0.00	8.000		42%	49%	-56.74
	Dec	113.57	46.24	0.00	8.000		41%	48%	-59.33
2034	Jan	105.73	46.24	0.00	8.000		44%	51%	-51.49
	Feb	109.06	46.24	0.00	8.000		42%	50%	-54.82
	Mar	115.02	46.24	0.00	8.000		40%	47%	-60.78
	Apr	125.27	46.24	0.00	8.000		37%	43%	-71.03
	May	121.96	46.24	0.00	8.000		38%	44%	-67.72
	Jun	122.92	46.24	0.00	8.000		38%	44%	-68.68
	Jul	112.47	46.24	0.00	8.000		41%	48%	-58.23
	Aug	112.28	46.24	0.00	8.000		41%	48%	-58.04
	Sep	114.93	46.24	0.00	8.000		40%	47%	-60.69
	Oct	117.72	46.24	0.00	8.000		39%	46%	-63.48
	Nov	119.86	46.24	0.00	8.000		39%	45%	-65.62
	Dec	122.65	46.24	0.00	8.000		38%	44%	-68.41

The Peak Demand was forecasted by the peak demand itself using trend model. Monthly Peak Demand is at its lowest on the month of January due to rainy and cold season. In general, Peak Demand is expected to grow at a rate of 7.77% annually.

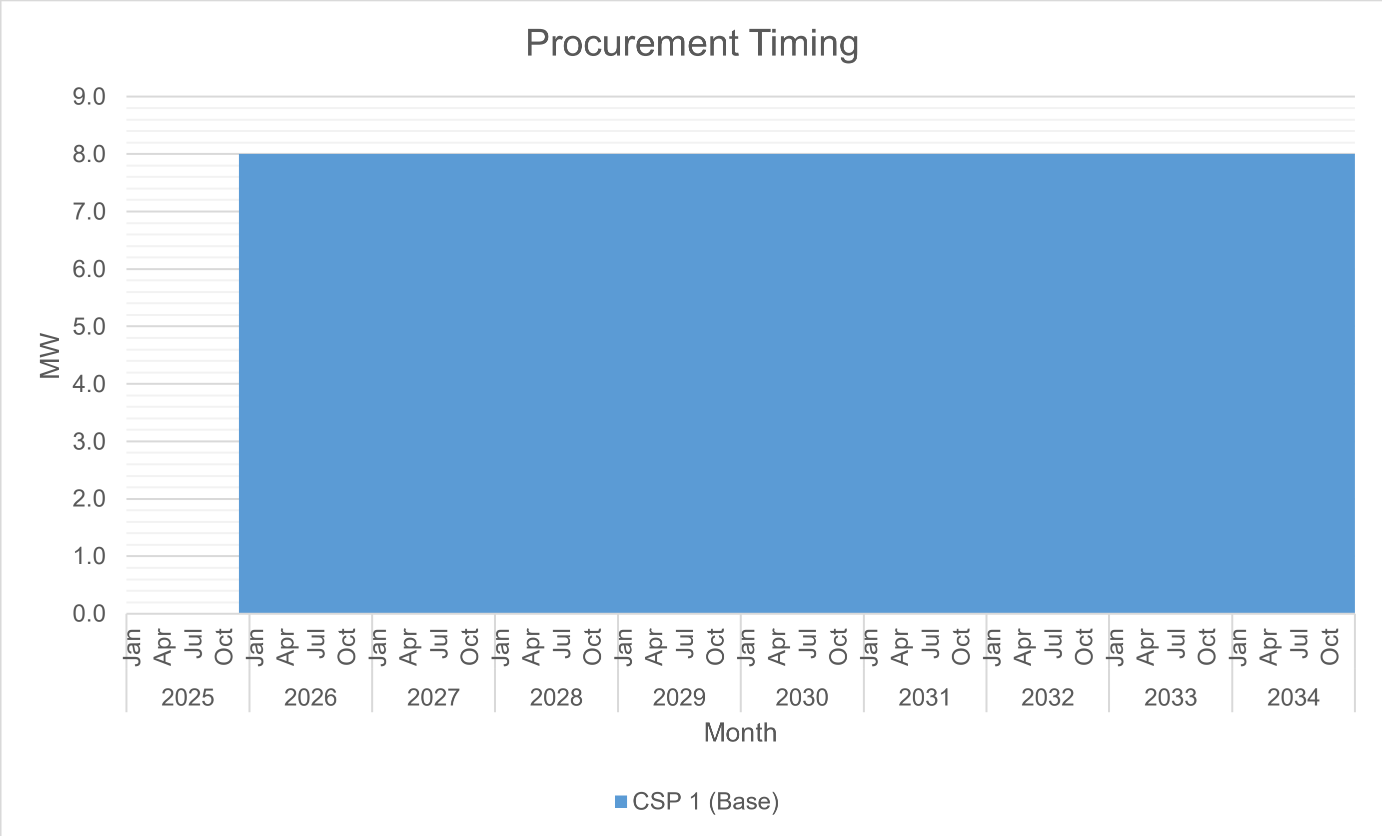


The available supply is generally below the Peak Demand. This is because one of our existing contracted IPP, which is the San Miguel Consolidated Power Corporation (SMCPC), was affected by the ERC decision on the Alyansa Para sa Bagong Pilipinas, inc. (ABP) petition.

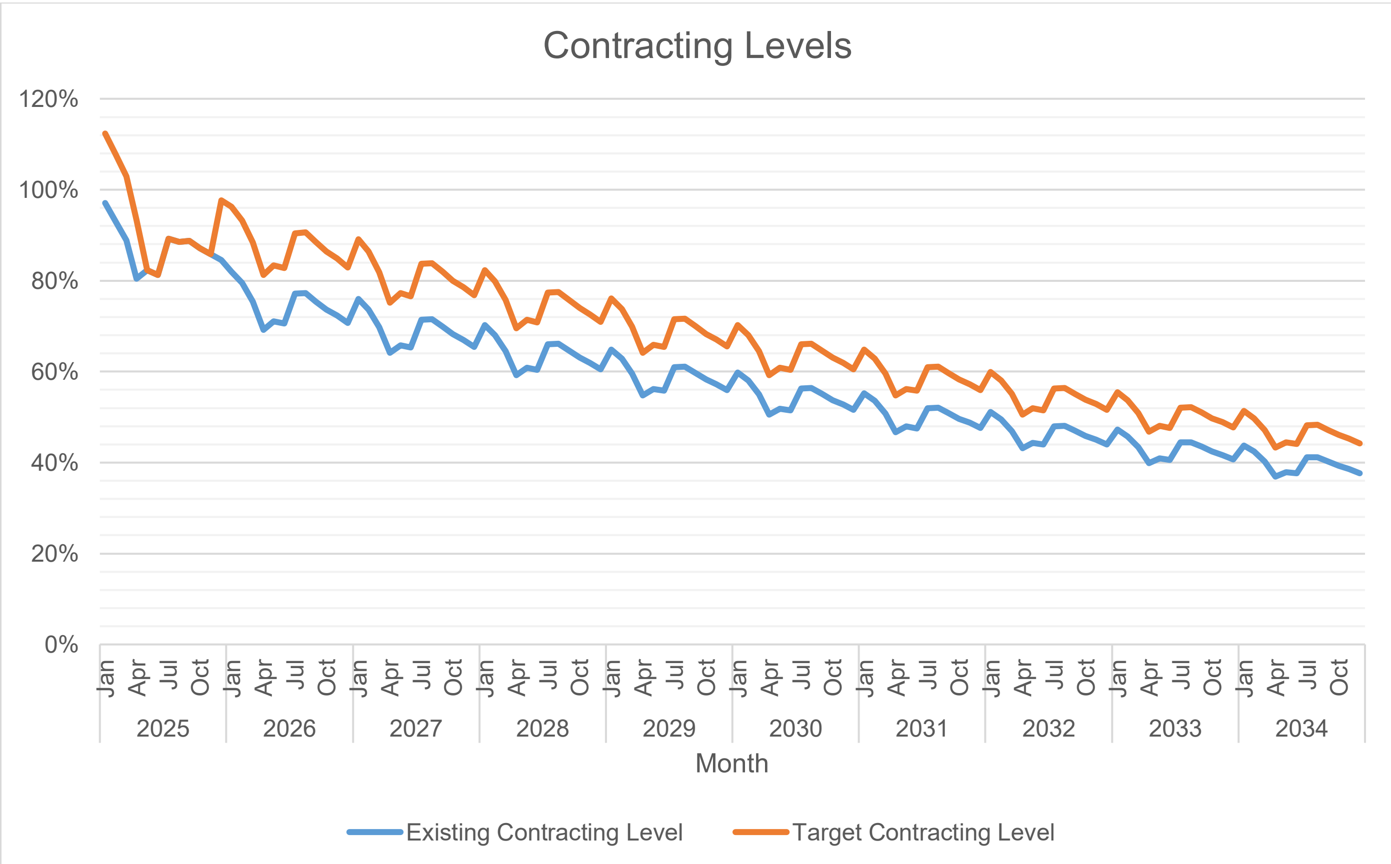
In order to resolve our deficit of supply for the year 2025, ZAMSURECO-I filed for and Emergency Power Supply Agreement (EPSA) to the ERC of an 8MW contract from San Miguel Consolidated Power Corporation (SMCPC). Currently, we are still waiting for the ERC approval on the said application.



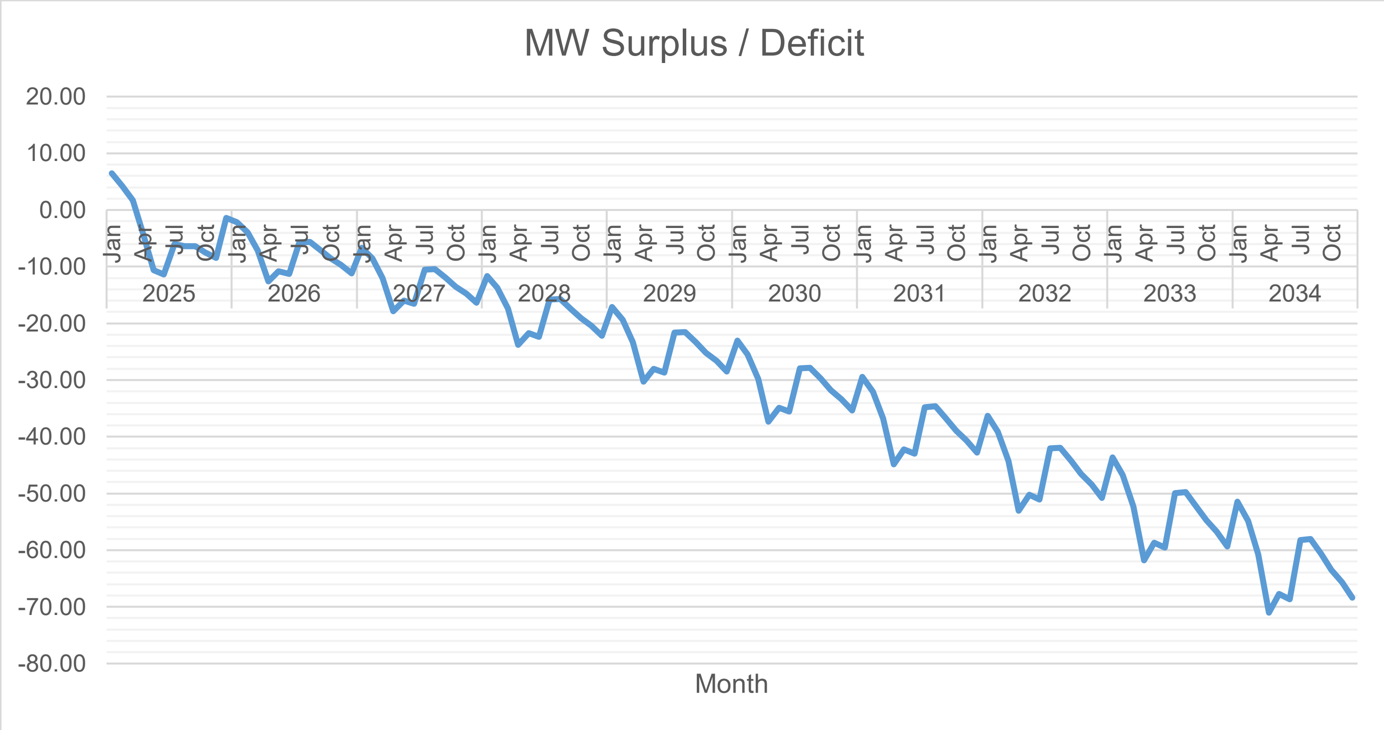
Of the available supply, the largest is 24.24 MW from GNPK. This is followed by 12 MW from TSI.



The first wave of supply procurement will be for 8 MW planned to be available by the month of September 2026.



ZAMSURECO-I filed for and Emergency Power Supply Agreement (EPSA) to the ERC of an 8MW contract from San Miguel Consolidated Power Corporation (SMCPC). Currently, we are still waiting for the ERC approval on the said application.



Currently, the highest deficit for the year 2025 is 11.39 MW that will occur on the month of June 2025. That is why, the approval of our EPSA application to the ERC is timely relevant in order to resolve our deficit problem that would probably occur within the said date. The lowest deficit is 1.39 MW that is expect to occur on the month of December 2025.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2025	Jan	34,268	27,296	2,160	14.04%	7.33%
	Feb	32,240	26,456	2,093	11.45%	7.33%
	Mar	30,759	25,913	2,051	9.09%	7.33%
	Apr	34,731	30,942	2,453	3.85%	7.35%
	May	35,728	29,877	2,366	9.76%	7.34%
	Jun	36,112	28,237	2,235	15.62%	7.33%
	Jul	32,010	26,171	2,069	11.78%	7.33%
	Aug	32,667	27,707	2,190	8.48%	7.33%
	Sep	34,786	27,078	2,142	16.00%	7.33%
	Oct	34,717	27,908	2,209	13.25%	7.33%
	Nov	36,162	29,340	2,321	12.44%	7.33%
	Dec	36,881	28,871	2,282	15.53%	7.33%
2026	Jan	37,522	29,531	2,123	15.64%	6.71%
	Feb	35,302	28,632	2,057	13.07%	6.70%
	Mar	33,680	28,031	2,016	10.79%	6.71%
	Apr	38,029	33,456	2,411	5.69%	6.72%
	May	39,121	32,334	2,325	11.40%	6.71%
	Jun	39,542	30,553	2,197	17.18%	6.71%
	Jul	35,050	28,329	2,034	13.37%	6.70%
	Aug	35,769	30,004	2,153	10.10%	6.69%
	Sep	38,089	29,303	2,106	17.54%	6.70%
	Oct	38,014	30,194	2,171	14.86%	6.71%
	Nov	39,595	31,737	2,282	14.08%	6.71%
	Dec	40,383	31,259	2,243	17.04%	6.70%

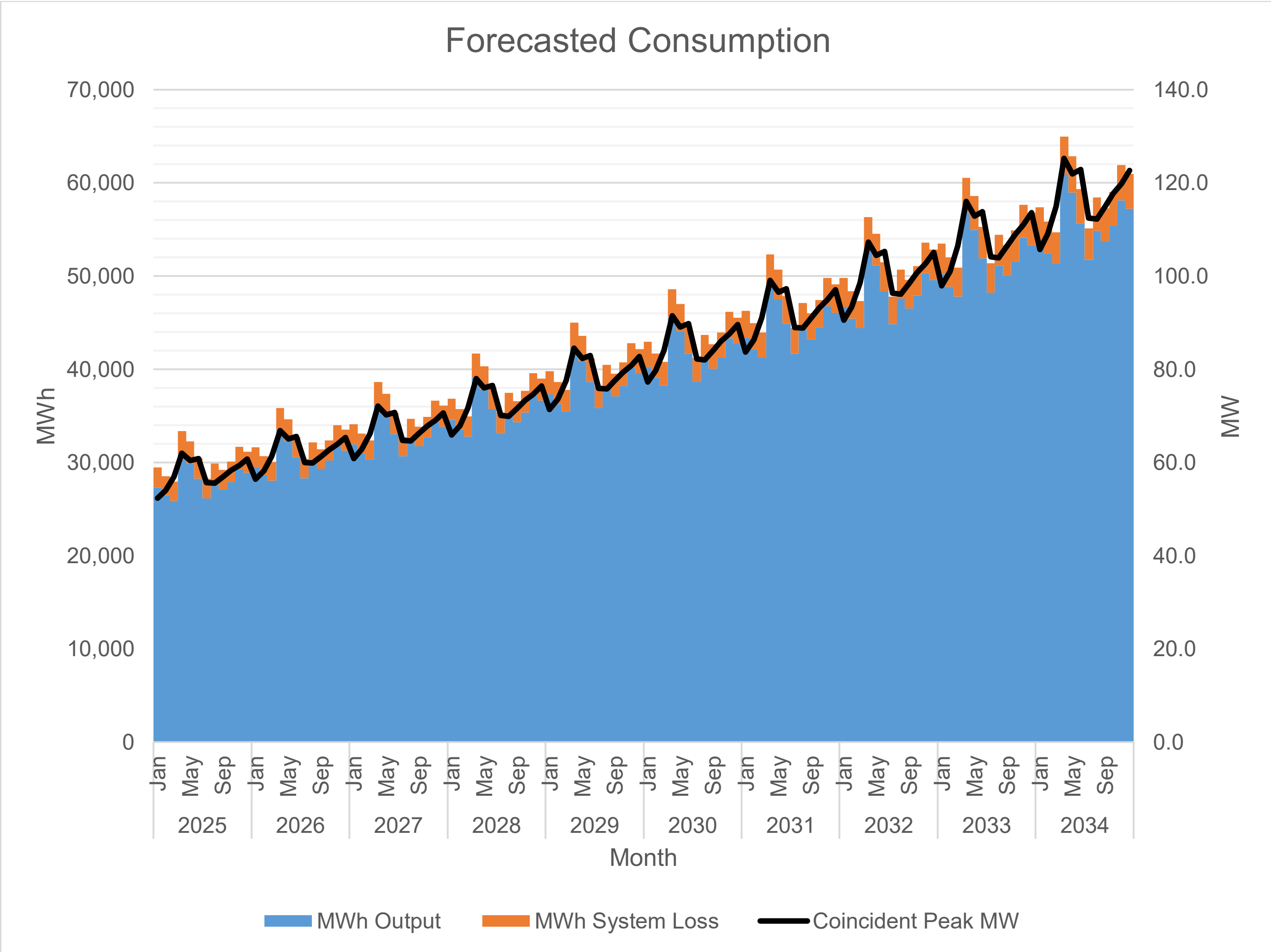
2027	Jan	40,932	31,954	2,155	16.67%	6.32%
	Feb	38,510	30,993	2,088	14.10%	6.31%
	Mar	36,741	30,331	2,047	11.88%	6.32%
	Apr	41,486	36,183	2,448	6.88%	6.34%
	May	42,676	34,997	2,360	12.46%	6.32%
	Jun	43,136	33,063	2,230	18.18%	6.32%
	Jul	38,236	30,668	2,065	14.39%	6.31%
	Aug	39,021	32,493	2,185	11.13%	6.30%
	Sep	41,551	31,720	2,137	18.52%	6.31%
	Oct	41,470	32,679	2,204	15.88%	6.32%
	Nov	43,195	34,341	2,316	15.13%	6.32%
	Dec	44,054	33,849	2,277	18.00%	6.30%
2028	Jan	44,455	34,558	2,265	17.17%	6.15%
	Feb	41,824	33,533	2,195	14.58%	6.14%
	Mar	39,903	32,807	2,151	12.39%	6.15%
	Apr	45,056	39,115	2,572	7.48%	6.17%
	May	46,349	37,855	2,480	12.97%	6.15%
	Jun	46,848	35,757	2,343	18.67%	6.15%
	Jul	41,527	33,179	2,170	14.88%	6.14%
	Aug	42,379	35,163	2,296	11.61%	6.13%
	Sep	45,127	34,321	2,246	18.97%	6.14%
	Oct	45,038	35,354	2,316	16.36%	6.15%
	Nov	46,912	37,144	2,434	15.63%	6.15%
	Dec	47,845	36,630	2,393	18.44%	6.13%
2029	Jan	48,056	37,337	2,448	17.21%	6.15%
	Feb	45,213	36,246	2,372	14.59%	6.14%
	Mar	43,135	35,456	2,324	12.42%	6.15%
	Apr	48,706	42,246	2,780	7.56%	6.17%
	May	50,104	40,903	2,680	13.01%	6.15%
	Jun	50,643	38,630	2,532	18.72%	6.15%
	Jul	44,891	35,856	2,345	14.90%	6.14%
	Aug	45,812	38,008	2,482	11.62%	6.13%
	Sep	48,783	37,102	2,427	18.97%	6.14%
	Oct	48,687	38,216	2,503	16.37%	6.15%
	Nov	50,712	40,144	2,631	15.65%	6.15%
	Dec	51,721	39,598	2,586	18.44%	6.13%
2030	Jan	51,712	40,289	2,642	16.98%	6.15%
	Feb	48,652	39,132	2,560	14.31%	6.14%
	Mar	46,417	38,275	2,509	12.14%	6.15%
	Apr	52,411	45,577	3,000	7.32%	6.18%
	May	53,915	44,139	2,893	12.77%	6.15%
	Jun	54,496	41,678	2,733	18.50%	6.15%
	Jul	48,306	38,697	2,531	14.65%	6.14%
	Aug	49,297	41,026	2,679	11.34%	6.13%
	Sep	52,494	40,063	2,620	18.69%	6.14%
	Oct	52,391	41,264	2,702	16.08%	6.14%
	Nov	54,570	43,339	2,839	15.38%	6.15%
	Dec	55,655	42,750	2,791	18.17%	6.13%
2031	Jan	55,403	43,416	2,848	16.50%	6.16%
	Feb	52,125	42,191	2,759	13.76%	6.14%
	Mar	49,730	41,268	2,704	11.58%	6.15%

	Apr	56,153	49,108	3,234	6.79%	6.18%
	May	57,764	47,561	3,119	12.26%	6.15%
	Jun	58,386	44,904	2,946	18.05%	6.16%
	Jul	51,754	41,704	2,728	14.15%	6.14%
	Aug	52,816	44,216	2,887	10.82%	6.13%
	Sep	56,241	43,205	2,824	18.16%	6.14%
	Oct	56,131	44,502	2,912	15.53%	6.14%
	Nov	58,465	46,731	3,061	14.84%	6.15%
	Dec	59,628	46,087	3,009	17.66%	6.13%
2032	Jan	59,116	46,720	3,066	15.78%	6.16%
	Feb	55,618	45,426	2,970	12.98%	6.14%
	Mar	53,063	44,437	2,911	10.77%	6.15%
	Apr	59,915	52,842	3,481	6.00%	6.18%
	May	61,635	51,173	3,357	11.53%	6.16%
	Jun	62,298	48,307	3,171	17.37%	6.16%
	Jul	55,222	44,876	2,937	13.42%	6.14%
	Aug	56,355	47,580	3,108	10.06%	6.13%
	Sep	60,010	46,532	3,040	17.40%	6.13%
	Oct	59,892	47,931	3,135	14.74%	6.14%
	Nov	62,383	50,324	3,294	14.05%	6.14%
	Dec	63,624	49,611	3,239	16.93%	6.13%
2033	Jan	62,839	50,204	3,295	14.86%	6.16%
	Feb	59,121	48,840	3,193	11.99%	6.14%
	Mar	56,404	47,785	3,129	9.73%	6.14%
	Apr	63,689	56,784	3,742	4.97%	6.18%
	May	65,516	54,977	3,608	10.58%	6.16%
	Jun	66,222	51,893	3,409	16.49%	6.16%
	Jul	58,700	48,218	3,156	12.48%	6.14%
	Aug	59,904	51,120	3,341	9.09%	6.13%
	Sep	63,789	50,046	3,267	16.42%	6.13%
	Oct	63,664	51,557	3,369	13.72%	6.13%
	Nov	66,312	54,124	3,541	13.04%	6.14%
	Dec	67,631	53,326	3,481	16.00%	6.13%
2034	Jan	66,563	53,872	3,537	13.75%	6.16%
	Feb	62,625	52,439	3,427	10.79%	6.13%
	Mar	59,748	51,320	3,358	8.49%	6.14%
	Apr	67,464	60,939	4,016	3.72%	6.18%
	May	69,400	58,977	3,873	9.44%	6.16%
	Jun	70,147	55,663	3,659	15.43%	6.17%
	Jul	62,179	51,733	3,388	11.35%	6.15%
	Aug	63,455	54,839	3,586	7.93%	6.14%
	Sep	67,570	53,755	3,507	15.26%	6.12%
	Oct	67,437	55,385	3,617	12.51%	6.13%
	Nov	70,242	58,136	3,801	11.82%	6.14%
	Dec	71,639	57,235	3,737	14.89%	6.13%

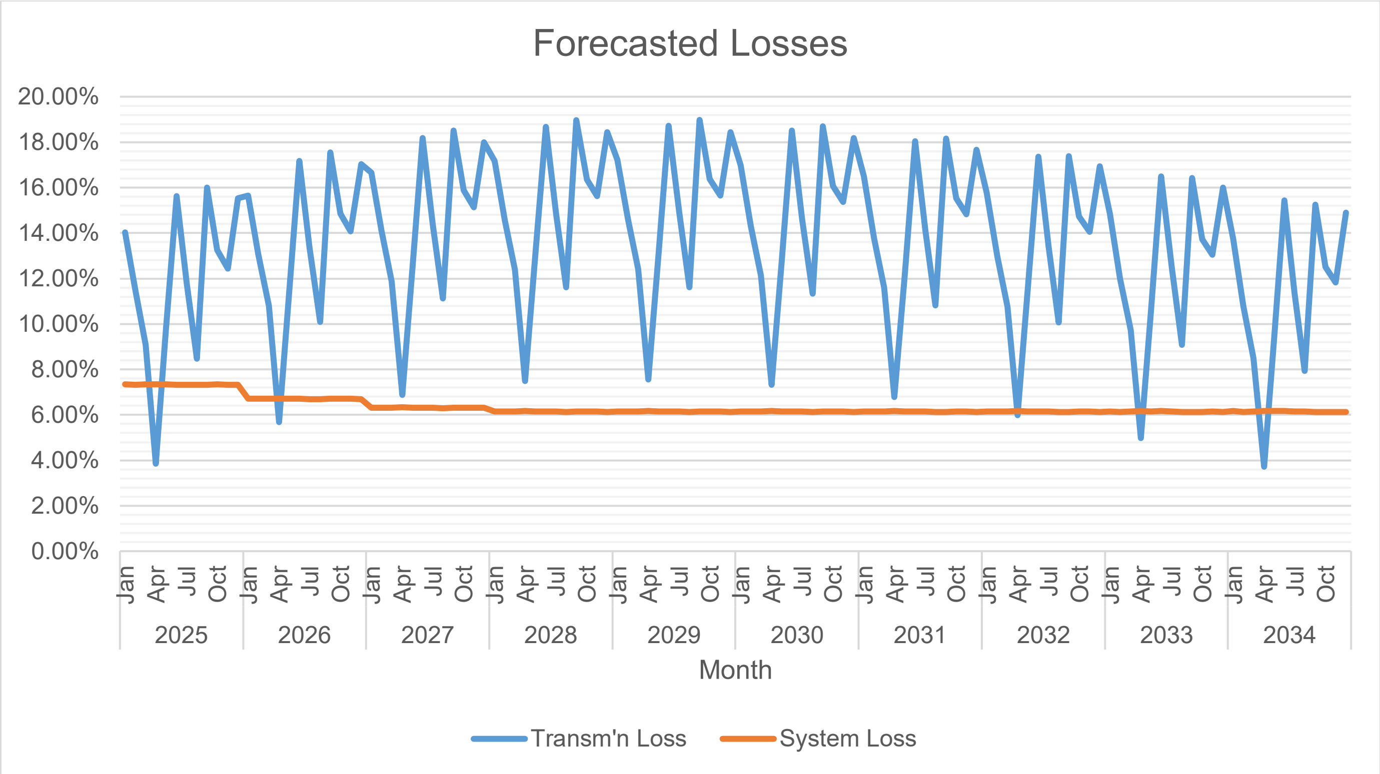
MWh Offtake forecasted data was computed by adding the MWh transmission loss and the MWh Input. The assumed percent (%) annual average transmission loss is 7.40%, which is the percent (%) annual average transmission loss of the previous year.

While for the System Loss, ZAMSURECO –I is doing its best effort to achieve a single digit percentage average annually. Therefore, the system loss forecasted data was calculated based on a single digit value which is 9%.

Hence, The Cooperative sees to it that system loss percentage average annually is kept below the NEA prescribed system loss cap. Currently, System Losses of ECs are based on the Feeder Loss Cap. The percent (%) annual feeder loss for the year 2023 is 9.07%, whereas the Substation loss is 0.74%, total of 9.81% systems loss.



MWh Output was expected to grow at a rate of 8% annually.



Transmission Loss is expected to rate at the average of 14% annually while System Loss is expected to hit our target of 6.12% average annually.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
ERC Case No. 2018-054 RC (PSALM)	Base	Power Sector Assets and Liabilities Management Corporation	0.00	30,835	12/26/2023	12/25/2025
ERC Case No. 2022-060 RC (LPEC)	Base	Other	0.00	43,800	12/26/2023	12/25/2048
ERC Case No. 2014-064RC (TSI)	Base	Therma South, Inc.	4.80	42,048	3/16/2018	3/16/2043
ERC Case No. 2014-177RC (SEC-2)	Base	Sarangani Energy Corporation	2.00	17,520	10/10/2019	10/10/2044
ERC Case No. 2014-011RC (GNPK)	Base	GN Power Kauswagan Ltd.	12.12	106,171	8/8/2019	8/8/2039

The **PSA with PSALM/NPC** was renewed for another two (2) years starting from December 26, 2023 to December 25, 2025. PSALM/NPC is the cheapest source of baseload power supply.

PSA with LPEC Biomass Power Plant was the first embedded renewable generating power plant with a 5MW contracting capacity to ZAMSURECO-I. The said embedded generating power plant is located at Brgy. Poblacion, Aurora, Zamboanga del Sur. Libertad Power and Energy Corporation (LPEC) will start its billing to ZAMSURECO-I on the billing month of January 2024.

PSA with TSI was the first baseload power supply agreement that ZAMSURECO-I entered into. TSI was the first IPP to offer baseload power supply in Mindanao. During that time, ECs are in dire need of baseload power due to power supply crisis that hit the entire Mindanao Grid, resulting in power curtailment of 6-8 hours per day.

The **contract with SEC** was intended to ensure sufficient power supply and to diversify the Cooperative’s sources of power. SEC is owned by Alsons Power which owns several peaking plants in Mindanao. One of its peaking plants is located in Zamboanga Peninsula (Zampen) and was previously utilized by the transmission system operator for voltage regulation, keeping the supply voltage in Zampen within acceptable level especially during peaking periods.

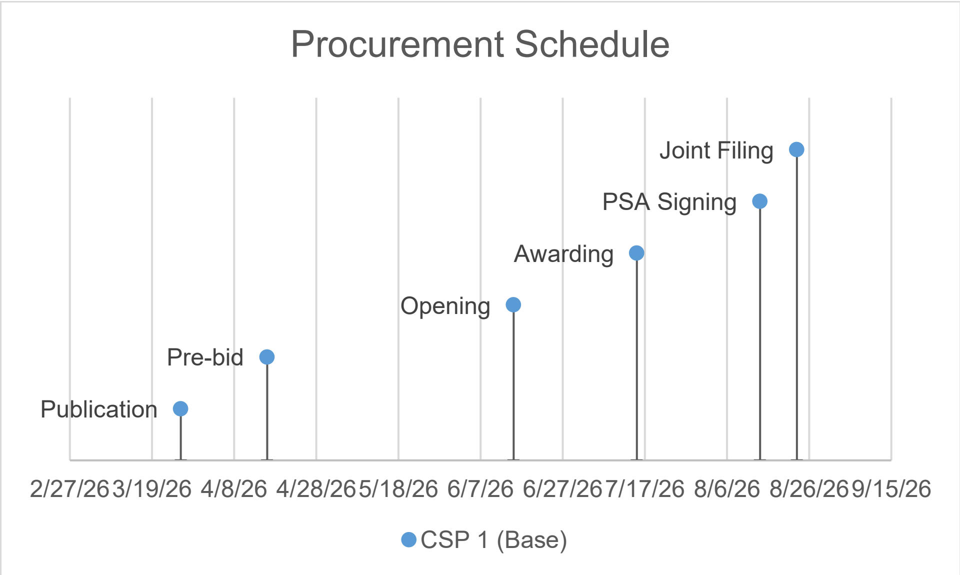
GNPK Contract was signed in 2012. It was a result of power supply aggregation initiative of AMRECO Member-ECs. With aggregation, the ECs were able to increase its bargaining power in supply contracting, thereby resulting in reduced generation costs.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
EPSA-SMCPC	Base	San Miguel Consolidated Power Corporation	3.20	28,032	4/26/2024	4/25/2025

ZAMSURECO-I needs to undertake EPSA due to insufficient power supply for its power supply requirements from 2025 and beyond. ZAMSURECO-I intends to jointly file with San Miguel Consolidated Power Corporation (SMCPC) for an 8MW Emergency Power Supply Agreement (EPSA) before the ERC in order to address the power supply deficiency problem starting the year 2025 onwards.

In addition, ZAMSURECO-I intends to venture into power generation by converting its existing 5-hectare pole farm into a 5MW solar farm. Baseline studies had already been conducted and the project is expected to be completed in the year 2025

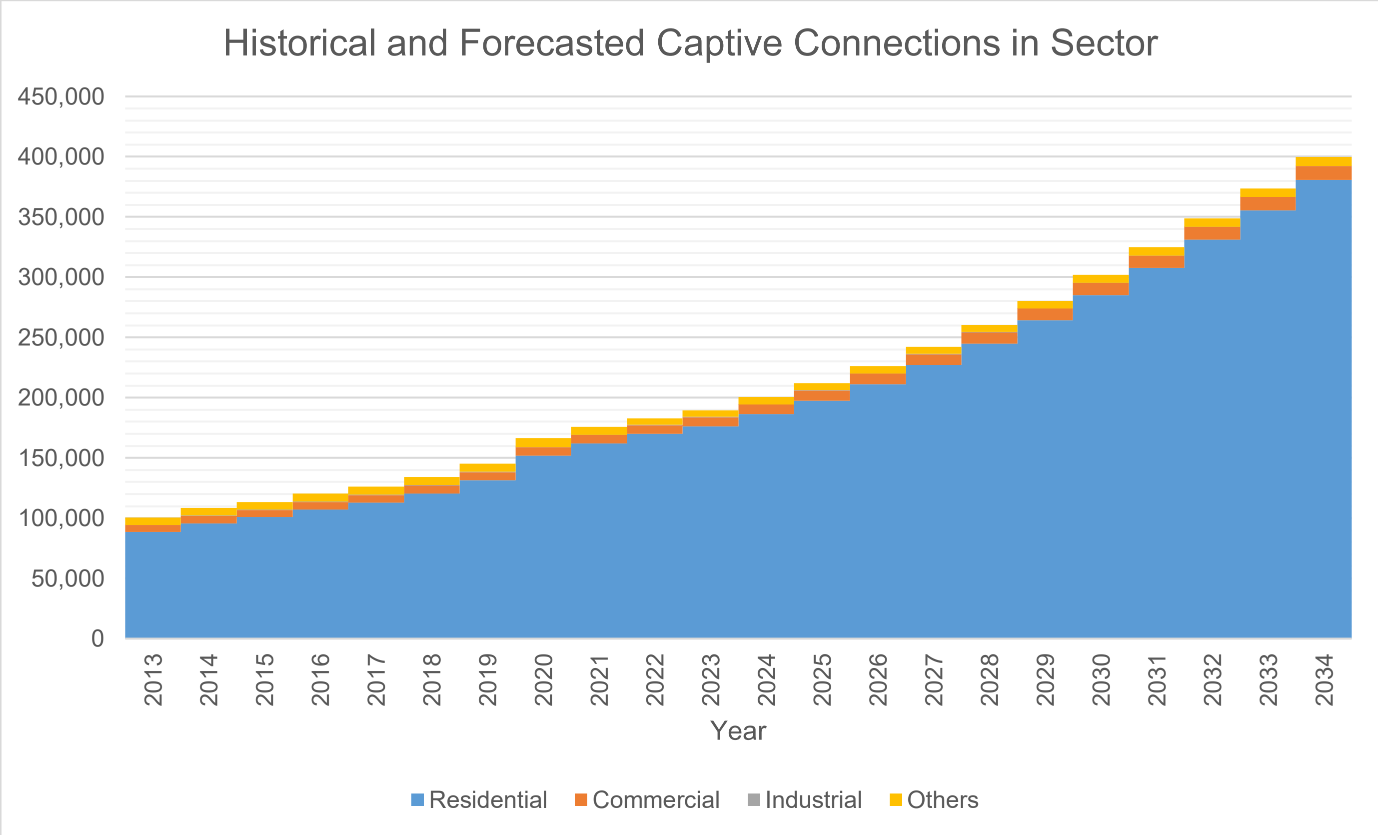
	CSP 1 (Base)
Type	Base
Minimum MW	3.20
Minimum MWh/yr	28,032
PSA Start	9/26/2026
PSA End	9/25/2036
Publication	3/26/2026
Pre-bid	4/16/2026
Opening	6/15/2026
Awarding	7/15/2026
PSA Signing	8/14/2026
Joint Filing	8/23/2026



For the procurement of 8 MW, maximum with a total of 70,080 MWh/yr; of supply which is planned to be available on September 2026, the first publication or launch of CSP will be on March 2026. Joint filing is planned on August 2026, or 150 days later, in accordance with DOE's 2018 CSP Policy.

Last October 2024, the TOR of the said CSP was already submitted to NEA and currently ongoing for evaluation and compliance.

Captive Customer Connections



The number of Residential connections is expected to grow at an average rate of 7.41% annually. Said customer class is expected to account for 54% of the total consumption.

Prepared by:

ENGR. RODNEY L. DAYADAY
CORPLAN Staff

Checked & Reviewed by:

ENGR. CLIFFORD M. FEROLIN
CORPLAN Manager

Noted and Approved by:

JOSE RAUL A. SANIEL
General Manager and CEO
.