



LEYTE IV ELECTRIC COOPERATIVE, INC.
Brgy. Lamak, Hilongos, Leyte

POWER SUPPLY PROCUREMENT PLAN (2024~2033)





Prepared by:


ENGR. JANET L. NOTARTE
Manager, Corporate Planning Department

Approved by:


BRENDA FLORES-AMPOLITOD
General Manager



ATTY. JOSEPH CARNEL M. BANDALAN
BOD President



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Historical Consumption Data

Table 1: Historical Consumption Data

Year	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	0.00	24,631	Visayas WESM is not in Commercial Operation yet	24,631	21,175	3,456		0.00%	0.00%	14.03%
2001	0.00	25,384		25,384	21,616	3,768		0.00%	0.00%	14.84%
2002	0.00	28,193		28,193	23,669	4,524		0.00%	0.00%	16.05%
2003	0.00	31,005		31,005	26,984	4,021		0.00%	0.00%	12.97%
2004	0.00	34,471		34,471	29,843	4,628		0.00%	0.00%	13.42%
2005	0.00	36,334		36,334	32,218	4,116		0.00%	0.00%	11.33%
2006	8.36	37,335		37,335	32,203	5,131	51%	0.00%	0.00%	13.74%
2007	7.94	40,076		40,076	34,306	5,769	58%	0.00%	0.00%	14.40%
2008	8.90	41,006		41,006	35,652	5,354	53%	0.00%	0.00%	13.06%
2009	9.12	44,398		44,398	38,786	5,612	56%	0.00%	0.00%	12.64%
2010	9.49	48,027		48,027	42,717	5,310	58%	0.00%	0.00%	11.06%
2011	9.31	50,942	778	50,566	44,629	5,937	62%	0.00%	0.74%	11.74%
2012	10.44	55,407	-5,453	54,893	49,008	5,886	60%	0.00%	0.93%	10.72%
2013	10.53	53,251	-12,484	52,747	47,800	4,946	57%	0.00%	0.95%	9.38%
2014	10.68	56,779	9,191	56,282	49,938	6,344	60%	0.00%	0.87%	11.27%
2015	11.30	62,914	80	62,276	55,520	6,756	63%	0.00%	1.01%	10.85%
2016	12.23	69,373	-6,206	68,637	61,229	7,408	64%	0.00%	1.06%	10.79%
2017	12.51	69,103	-279	68,358	61,009	7,350	62%	0.00%	1.08%	10.75%
2018	13.11	77,488	-1,211	76,380	68,867	7,512	67%	0.00%	1.43%	9.84%
2019	15.41	88,405	10,667	86,896	78,607	8,289	64%	0.00%	1.71%	9.54%
2020	15.73	93,876	5,410	92,309	83,112	9,198	67%	0.00%	1.67%	9.96%
2021	16.13	95,230	-1,205	93,646	84,277	9,333	66%	-0.04%	1.66%	9.97%
2022	16.26	91,532	-8,189	89,844	81,195	8,649	63%	0.00%	1.84%	9.63%
2023	18.36	107,039	5,126	105,219	94,876	10,343	65%	0.00%	1.70%	9.83%



LEYECO IV Peak Demand increased from 8.36 MW in 2006 to 18.36 MW in 2023 at an average rate of 4.89%. The highest growth rate at 17.36% was recorded in 2023 due to entry of the Large Commercial and Industrial Loads in the area and the apparent recovery from the Super Typhoon Odette. The MWh Offtake increased from 24,631 MWh in 2000 to 107,039 MWh in 2023 at an average rate of 6.55%. Corresponding to the increase in demand in 2019, the MWh Offtake also increased by 14.1% due to the high energy utilization of the Large Commercial and Industrial loads. However, when pandemic hits the world, many commercial and industrial establishments slowed down their operations in 2020. Hence, decreasing the corresponding demand. The decreased in demand for the year 2022 is brought by the massive devastation to the LEYECO IV distribution system from December 2021 until the 100% restoration in May 2022. Within the same period, Load Factor ranged from 51% to 67%. There was an abrupt change in consumption in 2013, 2017 and 2022 due to the Forced Majeure event brought by the Super Typhoon Yolanda in November 2013, earthquake in July 2017 and Super Typhoon Odette in December 2021.

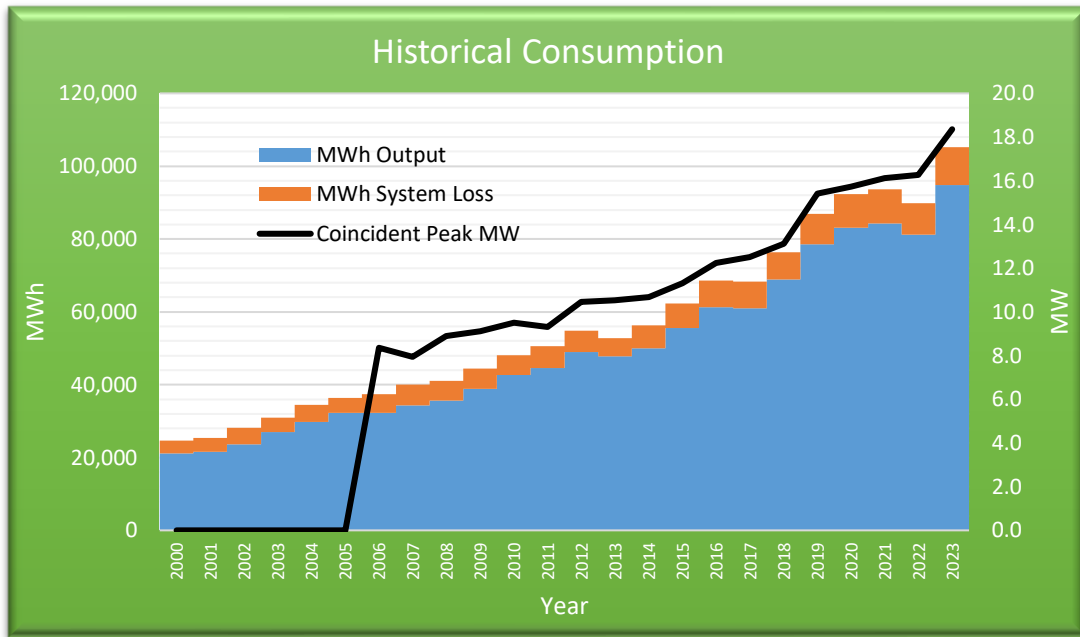


Figure 1: Historical Consumption

MWh Output showed a significant decrease in 2022 due to the on-going restoration and recovery of the distribution system that was damaged by the Super Typhoon Odette in December 2021 which was completed in the 2nd quarter of 2022. The seven (7) years historical data has at an average rate of 6.71%, while MWh System Loss increased at an average rate of 5.21% within the same period. The average increase in the MWh System Loss compared to the MWh Offtake and MWh Sold is way lower which means that the system is becoming more efficient up to the present.

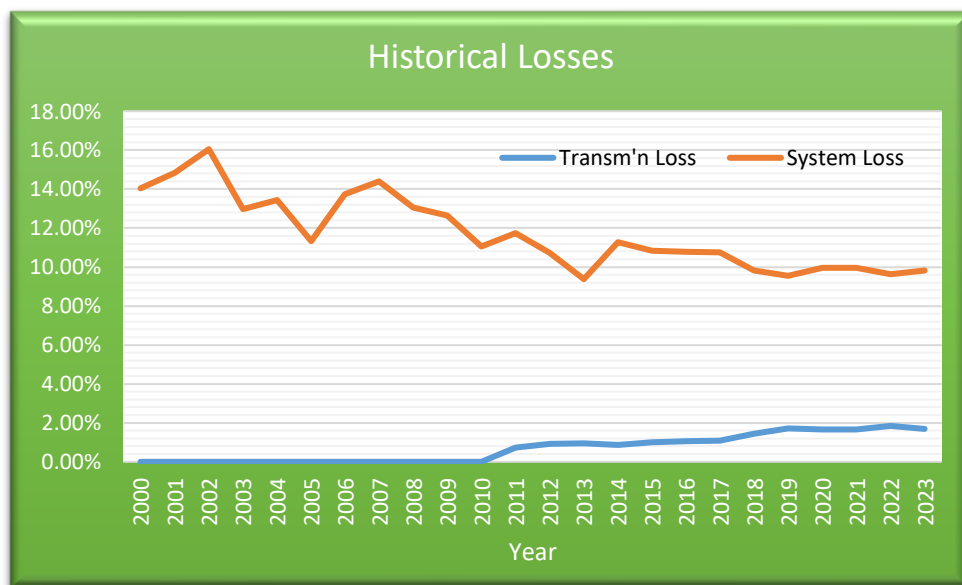


Figure 2: Historical Losses

Historically, Transmission Loss ranged from 0% to 1.84%. This Transmission Loss is attributed to the Site Specific Loss Adjustment (SSLA) starting from the commencement of the WESM Commercial Operation in the Visayas. Correspondingly, the System Loss ranged from 9.38% to 16.05%. Transmission Loss peaked at 1.84% on year 2022. System Loss peaked at 16.05% on year 2002.

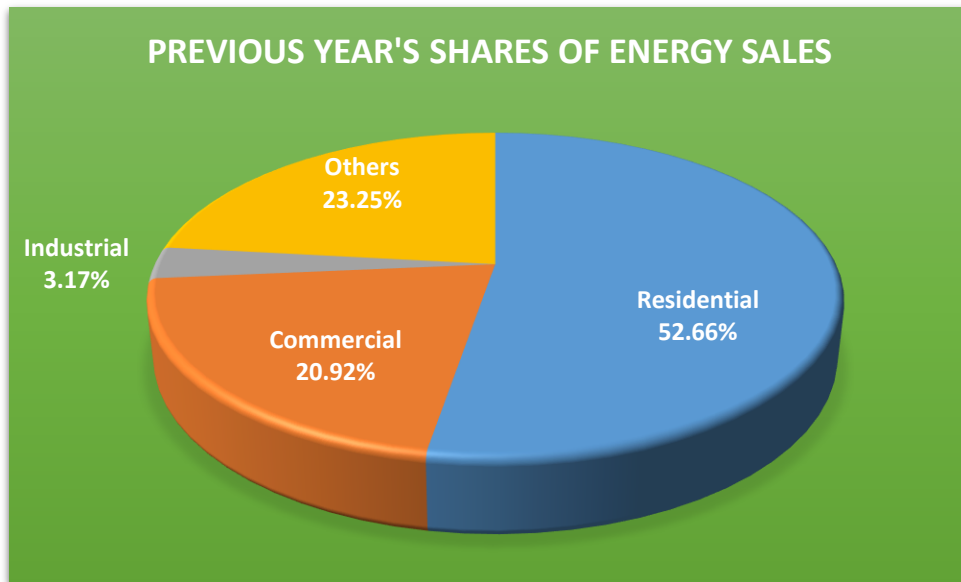


Figure 3: Previous Year's Shares of Energy Sales

Residential customers account for the bulk of energy sales at 52.66% due to the high number of connections. In contrast, Industrial customers accounted for only 3.17% of energy sales due to the low number of connections.

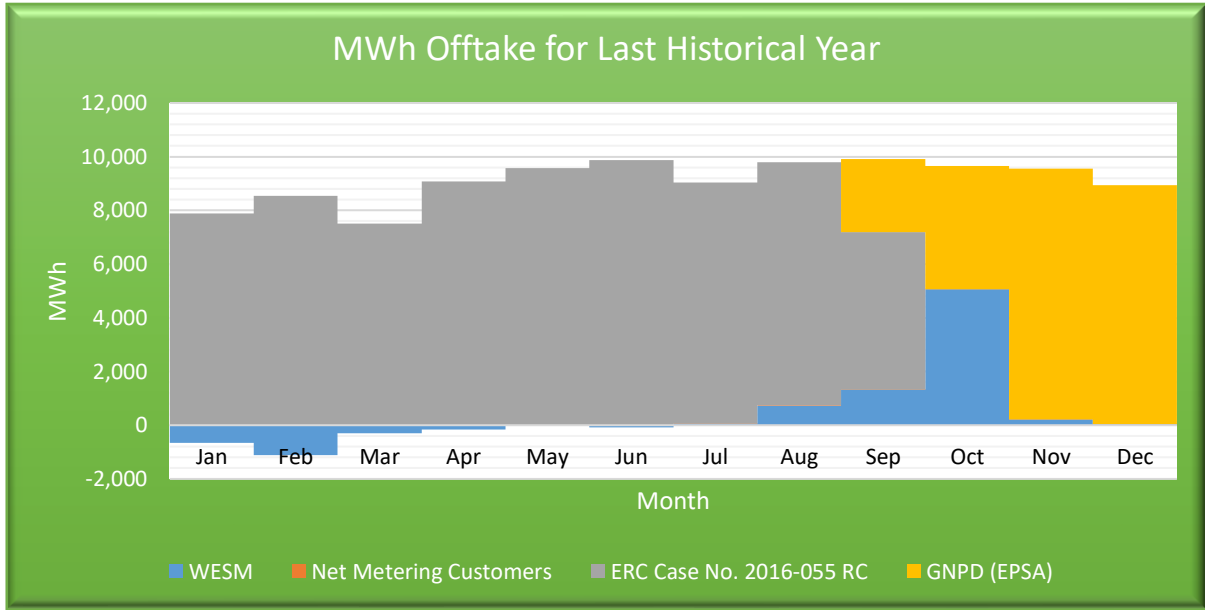


Figure 4: MWh Offtake for 2023

For 2022, the total Offtake for the last historical year is within the quantity stipulated in the PSA. The PSA with GNPD being the sole power supplier accounts for the bulk of MWh Offtake.

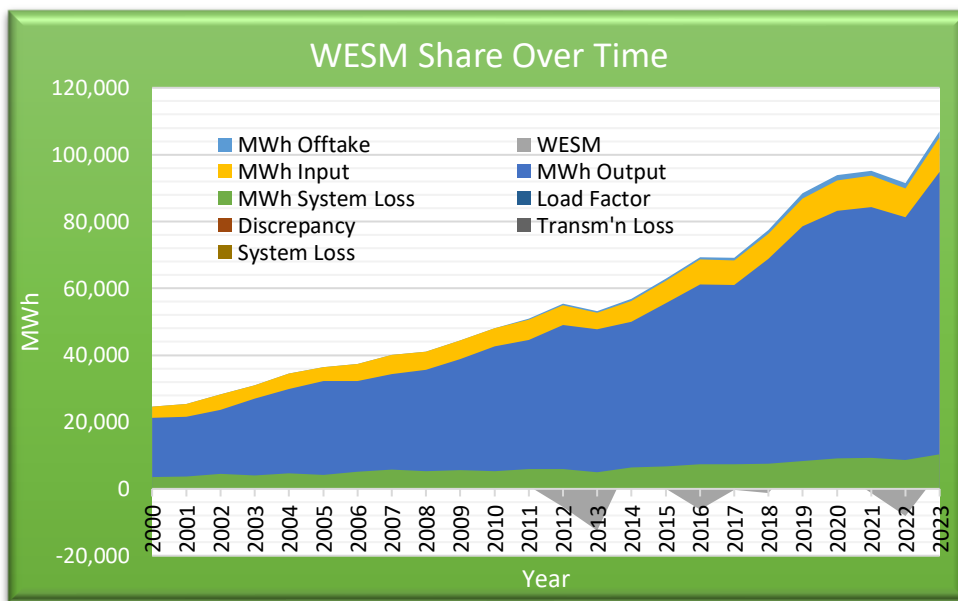


Figure 5: WESM Share Over Time

WESM Offtake is the net of WESM purchased and sales. Since 2011, LEYECO IV has a net sale from 279 MWh in 2017 to 12,484 MWh in 2013. The net purchased also ranged from 80 MWh in 2015 to 10,667 in 2019. The share of WESM in the total Offtake ranged from -23.4% to 16.2%.

Previous Year's Load Profile

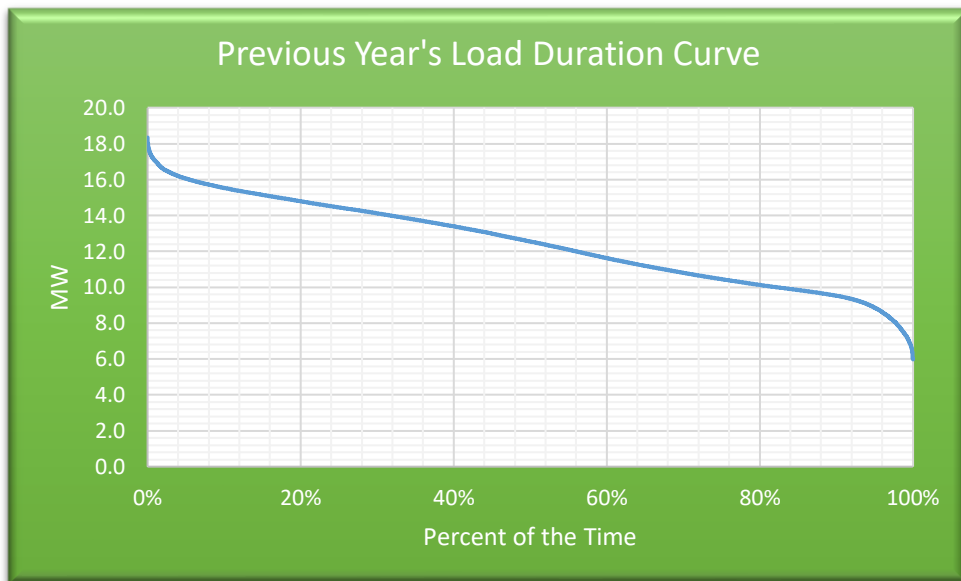


Figure 6: 2023 Load Duration Curve

Based on the Load Duration Curve, the minimum load is 5.98 MW and the maximum load is 18.36 MW in 2023.

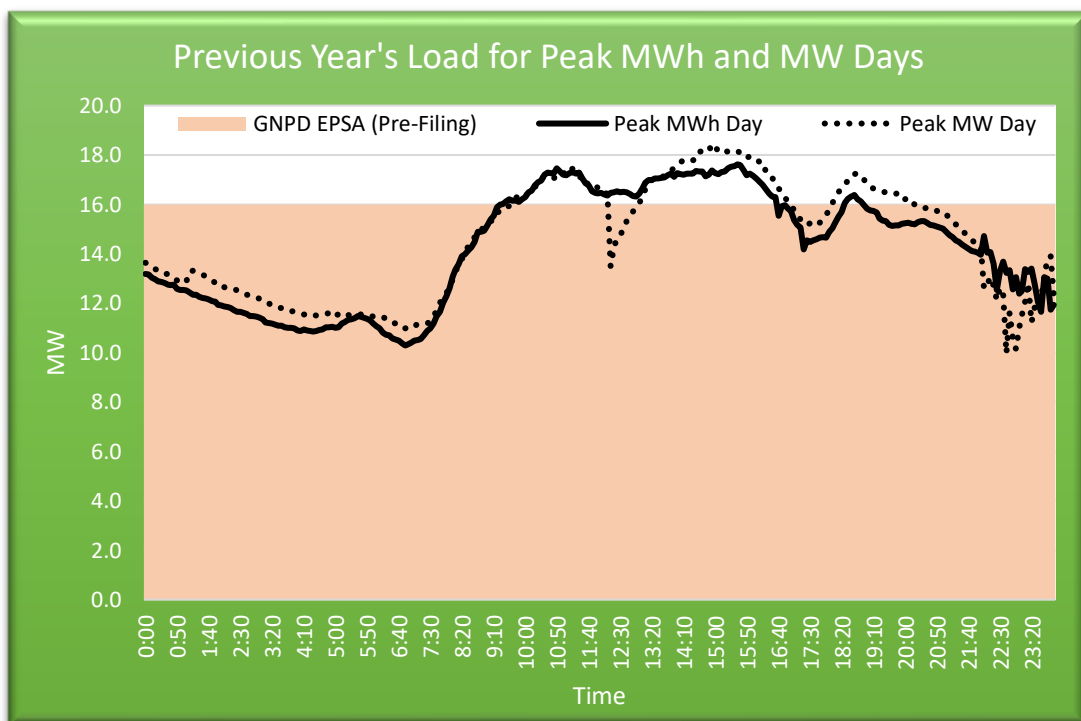


Figure 7: 2023 Load Peak MWh and MW Days

The Peak MW occurred on August 9, 2023 and Peak MWh day occurred on June 14, 2023. As shown in the Load Curves, the available supply is lower than the Peak Demand.

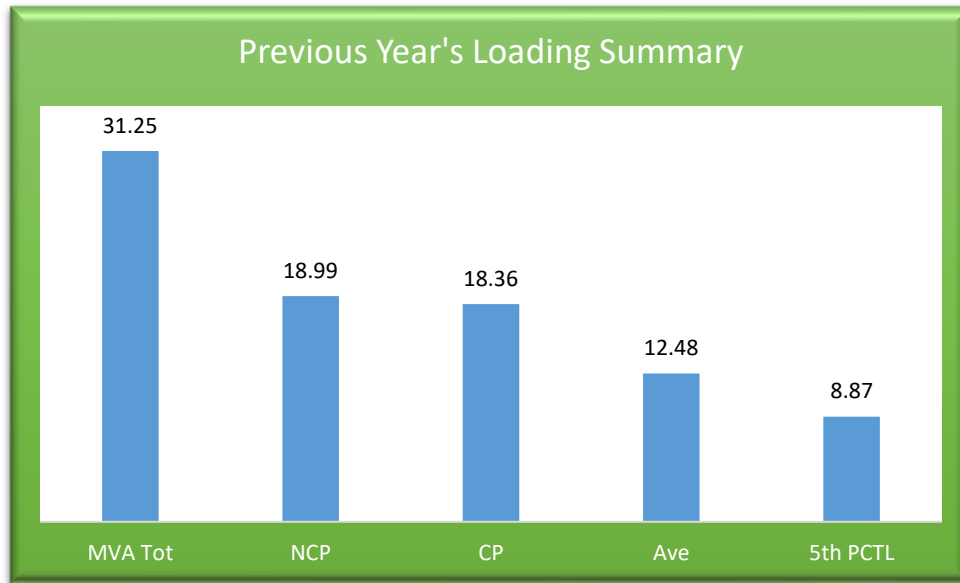


Figure 8: 2023 Loading Summary

The Non-coincident Peak Demand is 18.99 MW, which is around 60.78% of the total substation capacity of 31.25 MVA at a power factor of 98.03%. The load factor or the ratio between the Average Load of 12.48 MW and the Non-coincident Peak Demand is 65.69%. A safe estimate of the true minimum load is the fifth percentile load of 8.87 MW which is 46.68% of the Non-coincident Peak Demand.

Table 2: Substation Loading Condition

Metering Point	Substation MVA	Substation Peak MW
Baybay Substation	12.5	6.748
Hilongos Substation	12.5	9.492
San Agustin Substation	6.25	2.755

The substation loaded at above 70% is the Hilongos Substation. This loading problem will be solved by constructing another 10 MVA Substation in the municipality of Bato to unload the longest feeder of the Hilongos Substation.



Forecasted Consumption Data

Table 3: Forecasted Consumption Data

Year	Month	Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2024	Jan	14.93	0.00	16.00	0.000		0%	107%	1.07
	Feb	14.63	0.00	16.00	0.000		0%	109%	1.37
	Mar	15.62	0.00	16.00	0.000		0%	102%	0.38
	Apr	17.37	0.00	16.00	0.000		0%	92%	-1.37
	May	19.02	0.00	16.00	0.000		0%	84%	-3.02
	Jun	19.38	0.00	16.00	0.000		0%	83%	-3.38
	Jul	17.79	0.00	16.00	0.000		0%	90%	-1.79
	Aug	19.45	0.00	16.00	0.000		0%	82%	-3.45
	Sep	18.83	0.00	16.00	0.000		0%	85%	-2.83
	Oct	19.44	0.00	0.00	18.000		0%	93%	-1.44
	Nov	18.79	0.00	0.00	18.000		0%	96%	-0.79
	Dec	17.65	0.00	0.00	18.000		0%	102%	0.36
2025	Jan	15.91	0.00	0.00	18.000		0%	113%	2.09
	Feb	15.60	0.00	0.00	18.000		0%	115%	2.41
	Mar	16.65	0.00	0.00	18.000		0%	108%	1.35
	Apr	18.52	0.00	0.00	18.000		0%	97%	-0.52
	May	20.27	0.00	0.00	18.000		0%	89%	-2.27
	Jun	20.66	0.00	0.00	18.000		0%	87%	-2.66
	Jul	18.97	0.00	0.00	18.000		0%	95%	-0.97
	Aug	20.74	0.00	0.00	18.000		0%	87%	-2.74
	Sep	20.07	0.00	0.00	18.000		0%	90%	-2.07
	Oct	20.72	0.00	0.00	18.000		0%	87%	-2.72
	Nov	20.03	0.00	0.00	18.000		0%	90%	-2.03
	Dec	18.81	0.00	0.00	18.000		0%	96%	-0.81
2026	Jan	16.99	0.00	0.00	18.000		0%	106%	1.01
	Feb	16.65	0.00	0.00	18.000		0%	108%	1.35
	Mar	17.77	0.00	0.00	18.000		0%	101%	0.23
	Apr	19.77	0.00	0.00	18.000		0%	91%	-1.77
	May	21.64	0.00	0.00	18.000		0%	83%	-3.64
	Jun	22.05	0.00	0.00	18.000		0%	82%	-4.05
	Jul	20.24	0.00	0.00	18.000		0%	89%	-2.24
	Aug	22.13	0.00	0.00	18.000		0%	81%	-4.13
	Sep	21.43	0.00	0.00	18.000		0%	84%	-3.43
	Oct	22.12	0.00	0.00	18.000		0%	81%	-4.12
	Nov	21.38	0.00	0.00	18.000		0%	84%	-3.38
	Dec	20.08	0.00	0.00	18.000		0%	90%	-2.08
2027	Jan	18.14	0.00	0.00	18.000		0%	99%	-0.14
	Feb	17.77	0.00	0.00	18.000		0%	101%	0.23



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	Mar	18.97	0.00	0.00	18.000		0%	95%	-0.97
	Apr	21.11	0.00	0.00	18.000		0%	85%	-3.11
	May	23.10	0.00	0.00	18.000		0%	78%	-5.10
	Jun	23.54	0.00	0.00	18.000		0%	76%	-5.54
	Jul	21.62	0.00	0.00	18.000		0%	83%	-3.62
	Aug	23.63	0.00	0.00	18.000		0%	76%	-5.63
	Sep	22.88	0.00	0.00	18.000		0%	79%	-4.88
	Oct	23.61	0.00	0.00	18.000		0%	76%	-5.61
	Nov	22.82	0.00	0.00	18.000		0%	79%	-4.82
	Dec	21.44	0.00	0.00	18.000		0%	84%	-3.44
2028	Jan	19.36	0.00	0.00	18.000		0%	93%	-1.36
	Feb	18.97	0.00	0.00	18.000		0%	95%	-0.97
	Mar	20.25	0.00	0.00	18.000		0%	89%	-2.25
	Apr	22.52	0.00	0.00	18.000		0%	80%	-4.52
	May	24.66	0.00	0.00	18.000		0%	73%	-6.66
	Jun	25.12	0.00	0.00	18.000		0%	72%	-7.12
	Jul	23.07	0.00	0.00	18.000		0%	78%	-5.07
	Aug	25.22	0.00	0.00	18.000		0%	71%	-7.22
	Sep	24.42	0.00	0.00	18.000		0%	74%	-6.42
	Oct	25.20	0.00	0.00	18.000		0%	71%	-7.20
	Nov	24.36	0.00	0.00	18.000		0%	74%	-6.36
	Dec	22.88	0.00	0.00	18.000		0%	79%	-4.88
2029	Jan	20.63	0.00	0.00	18.000		0%	87%	-2.63
	Feb	20.22	0.00	0.00	18.000		0%	89%	-2.22
	Mar	21.58	0.00	0.00	18.000		0%	83%	-3.58
	Apr	24.01	0.00	0.00	18.000		0%	75%	-6.01
	May	26.28	0.00	0.00	18.000		0%	68%	-8.28
	Jun	26.78	0.00	0.00	18.000		0%	67%	-8.78
	Jul	24.59	0.00	0.00	18.000		0%	73%	-6.59
	Aug	26.89	0.00	0.00	18.000		0%	67%	-8.89
	Sep	26.03	0.00	0.00	18.000		0%	69%	-8.03
	Oct	26.86	0.00	0.00	18.000		0%	67%	-8.86
	Nov	25.96	0.00	0.00	18.000		0%	69%	-7.96
	Dec	24.39	0.00	0.00	18.000		0%	74%	-6.39
2030	Jan	21.96	0.00	0.00	18.000		0%	82%	-3.96
	Feb	21.52	0.00	0.00	18.000		0%	84%	-3.52
	Mar	22.97	0.00	0.00	18.000		0%	78%	-4.97
	Apr	25.56	0.00	0.00	18.000		0%	70%	-7.56
	May	27.98	0.00	0.00	18.000		0%	64%	-9.98
	Jun	28.51	0.00	0.00	18.000		0%	63%	-10.51
	Jul	26.17	0.00	0.00	18.000		0%	69%	-8.17
	Aug	28.62	0.00	0.00	18.000		0%	63%	-10.62
	Sep	27.70	0.00	0.00	18.000		0%	65%	-9.70
	Oct	28.59	0.00	0.00	18.000		0%	63%	-10.59
	Nov	27.64	0.00	0.00	18.000		0%	65%	-9.64



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	Dec	25.96	0.00	0.00	18.000		0%	69%	-7.96
2031	Jan	23.33	0.00	0.00	18.000		0%	77%	-5.33
	Feb	22.87	0.00	0.00	18.000		0%	79%	-4.87
	Mar	24.41	0.00	0.00	18.000		0%	74%	-6.41
	Apr	27.15	0.00	0.00	18.000		0%	66%	-9.15
	May	29.72	0.00	0.00	18.000		0%	61%	-11.72
	Jun	30.29	0.00	0.00	18.000		0%	59%	-12.29
	Jul	27.81	0.00	0.00	18.000		0%	65%	-9.81
	Aug	30.41	0.00	0.00	18.000		0%	59%	-12.41
	Sep	29.43	0.00	0.00	18.000		0%	61%	-11.43
	Oct	30.38	0.00	0.00	18.000		0%	59%	-12.38
	Nov	29.36	0.00	0.00	18.000		0%	61%	-11.36
	Dec	27.58	0.00	0.00	18.000		0%	65%	-9.58
2032	Jan	24.75	0.00	0.00	18.000		0%	73%	-6.75
	Feb	24.25	0.00	0.00	18.000		0%	74%	-6.25
	Mar	25.89	0.00	0.00	18.000		0%	70%	-7.89
	Apr	28.80	0.00	0.00	18.000		0%	63%	-10.80
	May	31.52	0.00	0.00	18.000		0%	57%	-13.52
	Jun	32.12	0.00	0.00	18.000		0%	56%	-14.12
	Jul	29.49	0.00	0.00	18.000		0%	61%	-11.49
	Aug	32.25	0.00	0.00	18.000		0%	56%	-14.25
	Sep	31.22	0.00	0.00	18.000		0%	58%	-13.22
	Oct	32.22	0.00	0.00	18.000		0%	56%	-14.22
	Nov	31.14	0.00	0.00	18.000		0%	58%	-13.14
	Dec	29.25	0.00	0.00	18.000		0%	62%	-11.25
2033	Jan	26.19	0.00	0.00	18.000		0%	69%	-8.19
	Feb	25.67	0.00	0.00	18.000		0%	70%	-7.67
	Mar	27.40	0.00	0.00	18.000		0%	66%	-9.40
	Apr	30.48	0.00	0.00	18.000		0%	59%	-12.48
	May	33.36	0.00	0.00	18.000		0%	54%	-15.36
	Jun	34.00	0.00	0.00	18.000		0%	53%	-16.00
	Jul	31.21	0.00	0.00	18.000		0%	58%	-13.21
	Aug	34.13	0.00	0.00	18.000		0%	53%	-16.13
	Sep	33.04	0.00	0.00	18.000		0%	54%	-15.04
	Oct	34.10	0.00	0.00	18.000		0%	53%	-16.10
	Nov	32.96	0.00	0.00	18.000		0%	55%	-14.96
	Dec	30.96	0.00	0.00	18.000		0%	58%	-12.96

The Peak Demand was forecasted using Regression Analysis and was assumed to occur on the month of August due to hot weather condition. Monthly Peak Demand is at its lowest on the month of February due to cold weather condition. In general, Peak Demand is expected to grow at a rate of 6.51% annually.

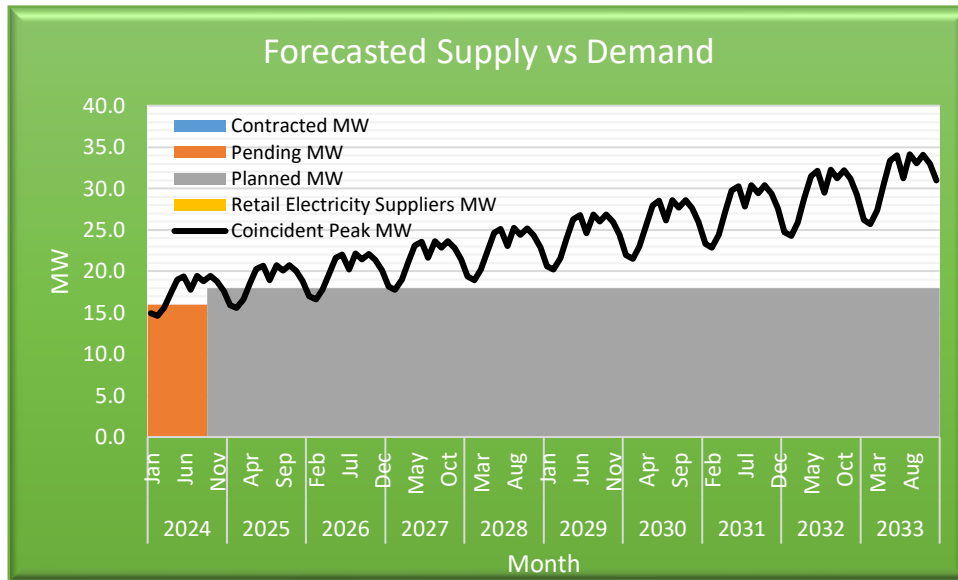


Figure 9: Forecasted Supply vs Demand

The 16MW EPSA of LEYECO IV will end on September 14, 2024 and the start of the 18MW R&JCPSP Long Term PSA on September 15, 2024. The available supply is generally above the Peak Demand. This is because of the entry of upcoming RPS supply which is a baseload. However, since the GNPD EPSA is based on 70%~100% Capacity Utilization Factor, the actual utilization can also be adjusted according to the demand.

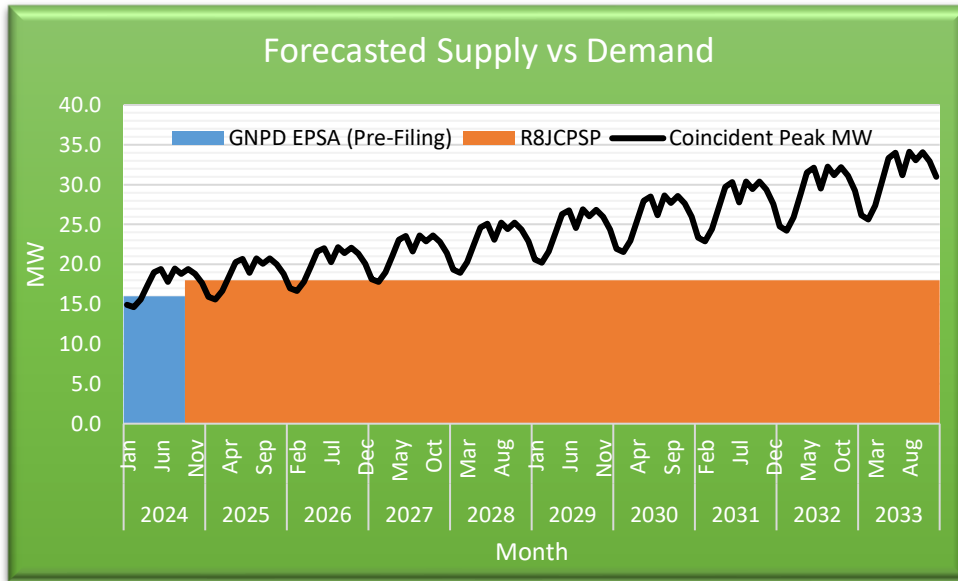


Figure 10: Forecasted Supply vs Demand (per Supplier)

All the available supply which is 16 MW is taken from GNPD.

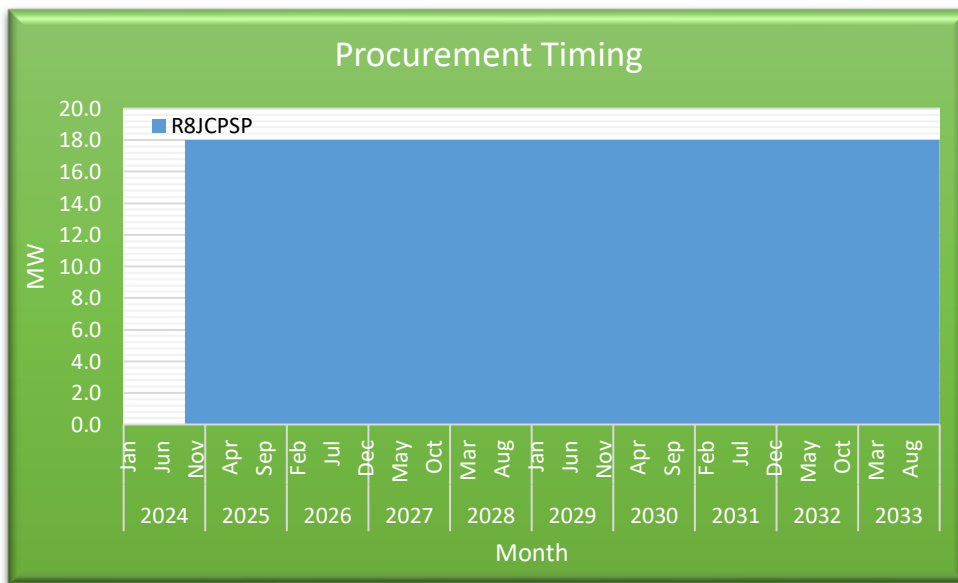


Figure 11: Procurement Timing

The supply procurement will be for 18MW Baseload Demand is also expected to start on September 15, 2024.

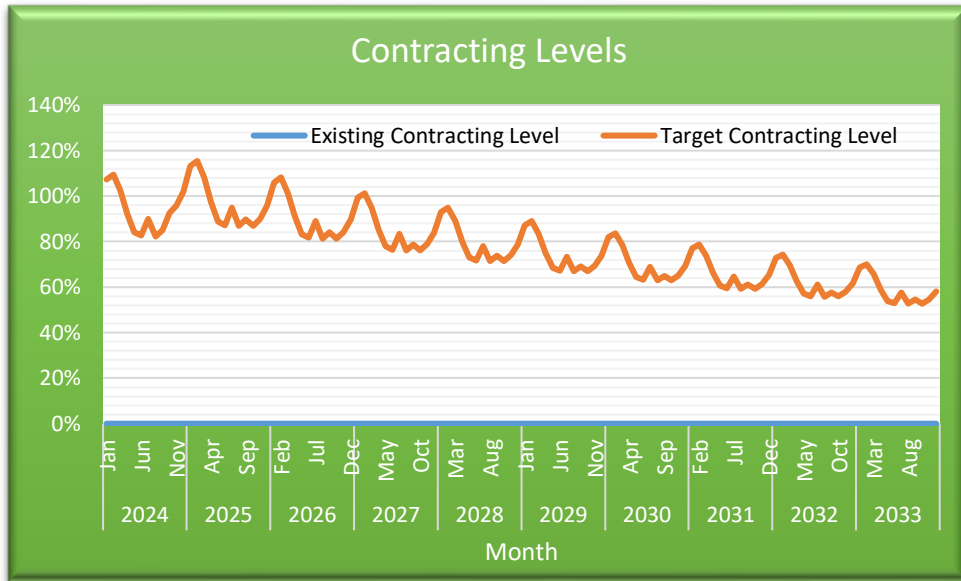


Figure 12: Contracting Levels

Currently, LEYECO IV has an Emergency Power Supply Agreement with GNPD of up to 16MW at 70%~100% Capacity Utilization Factor for its equivalent energy. This means that LEYECO IV is optimizing the contract level for the intermediate and peaking requirements while exposing to the WESM its baseload requirement during off-peak hours at a lower market price. For forecasted capacity requirement, LEYECO IV is planning to have an 18MW Baseload Demand is also to be subjected to CSP following the EPSA which will commence on September 15, 2024.

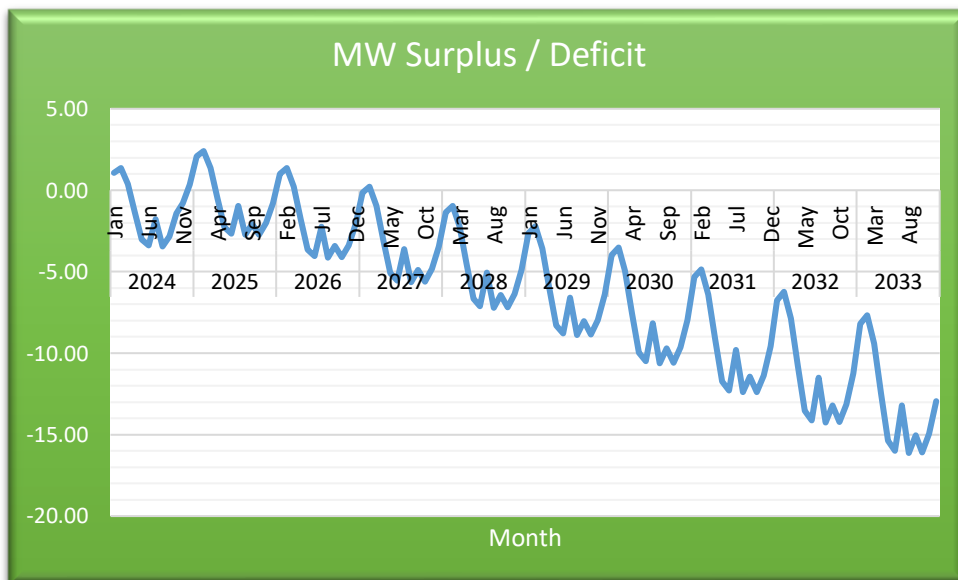


Figure 13: MW Surplus / Deficit



LEYECO IV POWER SUPPLY PROCUREMENT PLAN (2024~2033)

Currently, there seems an over-contracting by 2MW varying each month of the year because of the Capacity Utilization Factor (CUF) at 70% to 100%. The highest surplus is 4.526 MW which will occur in February 2030. The lowest surplus or the highest deficit is 16.13 MW which is expected to occur on the month of August 2033.

Table 4: MWh Offtake and Losses

Year	Month	MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	7,739	6,747	594	5.13%	8.10%
	Feb	7,739	6,937	611	2.46%	8.10%
	Mar	7,314	6,722	592	0.00%	8.10%
	Apr	9,023	8,293	730	0.00%	8.10%
	May	9,651	8,870	781	0.00%	8.10%
	Jun	9,897	9,096	801	0.00%	8.10%
	Jul	9,148	8,407	741	0.00%	8.10%
	Aug	9,894	9,093	801	0.00%	8.10%
	Sep	10,002	9,193	810	0.00%	8.10%
	Oct	9,744	8,956	789	0.00%	8.10%
	Nov	9,668	8,885	783	0.00%	8.10%
	Dec	9,075	8,312	732	0.34%	8.10%
2025	Jan	9,375	7,172	623	16.86%	7.99%
	Feb	9,376	7,375	640	14.52%	7.99%
	Mar	8,469	7,146	620	8.30%	7.99%
	Apr	9,581	8,816	765	0.00%	7.99%
	May	10,248	9,429	818	0.00%	7.99%
	Jun	10,509	9,670	839	0.00%	7.99%
	Jul	9,713	8,937	776	0.00%	7.99%
	Aug	10,505	9,666	839	0.00%	7.99%
	Sep	10,620	9,772	848	0.00%	7.99%
	Oct	10,347	9,520	826	0.00%	7.99%
	Nov	10,265	9,445	820	0.00%	7.99%
	Dec	9,603	8,836	767	0.00%	7.99%
2026	Jan	9,375	7,655	649	11.43%	7.81%
	Feb	9,376	7,871	667	8.94%	7.81%
	Mar	8,469	7,627	647	2.32%	7.81%
	Apr	10,207	9,409	798	0.00%	7.81%
	May	10,917	10,064	853	0.00%	7.81%
	Jun	11,195	10,320	875	0.00%	7.81%
	Jul	10,347	9,539	809	0.00%	7.81%
	Aug	11,191	10,317	875	0.00%	7.81%
	Sep	11,314	10,430	884	0.00%	7.81%



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	Oct	11,022	10,161	861	0.00%	7.81%
	Nov	10,936	10,081	855	0.00%	7.81%
	Dec	10,230	9,431	799	0.00%	7.81%
2027	Jan	9,376	8,190	673	5.47%	7.59%
	Feb	9,376	8,421	692	2.81%	7.59%
	Mar	8,830	8,159	671	0.00%	7.59%
	Apr	10,893	10,066	827	0.00%	7.59%
	May	11,651	10,766	885	0.00%	7.59%
	Jun	11,948	11,041	907	0.00%	7.59%
	Jul	11,043	10,205	839	0.00%	7.59%
	Aug	11,944	11,037	907	0.00%	7.59%
	Sep	12,075	11,158	917	0.00%	7.59%
	Oct	11,764	10,870	893	0.00%	7.59%
	Nov	11,671	10,785	886	0.00%	7.59%
	Dec	10,919	10,089	829	0.00%	7.59%
2028	Jan	9,465	8,770	695	0.00%	7.34%
	Feb	9,732	9,018	714	0.00%	7.34%
	Mar	9,430	8,738	692	0.00%	7.34%
	Apr	11,634	10,780	854	0.00%	7.34%
	May	12,443	11,530	913	0.00%	7.34%
	Jun	12,760	11,824	937	0.00%	7.34%
	Jul	11,794	10,928	866	0.00%	7.34%
	Aug	12,756	11,820	936	0.00%	7.34%
	Sep	12,896	11,949	947	0.00%	7.34%
	Oct	12,563	11,641	922	0.00%	7.34%
	Nov	12,465	11,550	915	0.00%	7.34%
	Dec	11,661	10,805	856	0.00%	7.34%
2029	Jan	10,106	9,392	714	0.00%	7.06%
	Feb	10,391	9,657	734	0.00%	7.06%
	Mar	10,068	9,357	711	0.00%	7.06%
	Apr	12,421	11,544	878	0.00%	7.06%
	May	13,285	12,347	939	0.00%	7.06%
	Jun	13,624	12,662	963	0.00%	7.06%
	Jul	12,593	11,703	890	0.00%	7.06%
	Aug	13,620	12,658	962	0.00%	7.06%
	Sep	13,769	12,796	973	0.00%	7.06%
	Oct	13,414	12,466	948	0.00%	7.06%
	Nov	13,308	12,368	940	0.00%	7.06%
	Dec	12,450	11,571	880	0.00%	7.06%
2030	Jan	10,780	10,050	730	0.00%	6.78%
	Feb	11,084	10,333	751	0.00%	6.78%
	Mar	10,740	10,012	728	0.00%	6.78%
	Apr	13,250	12,352	898	0.00%	6.78%
	May	14,172	13,211	960	0.00%	6.78%



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	Jun	14,533	13,548	985	0.00%	6.78%
	Jul	13,432	12,522	910	0.00%	6.78%
	Aug	14,528	13,544	984	0.00%	6.78%
	Sep	14,687	13,692	995	0.00%	6.78%
	Oct	14,308	13,339	969	0.00%	6.78%
	Nov	14,196	13,234	962	0.00%	6.78%
	Dec	13,280	12,381	900	0.00%	6.78%
2031	Jan	11,483	10,739	744	0.00%	6.48%
	Feb	11,807	11,042	765	0.00%	6.48%
	Mar	11,440	10,699	741	0.00%	6.48%
	Apr	14,114	13,199	914	0.00%	6.48%
	May	15,095	14,117	978	0.00%	6.48%
	Jun	15,480	14,477	1,003	0.00%	6.48%
	Jul	14,308	13,381	927	0.00%	6.48%
	Aug	15,475	14,473	1,003	0.00%	6.48%
	Sep	15,645	14,631	1,014	0.00%	6.48%
	Oct	15,241	14,254	988	0.00%	6.48%
	Nov	15,122	14,142	980	0.00%	6.48%
	Dec	14,146	13,230	917	0.00%	6.48%
2032	Jan	12,210	11,455	755	0.00%	6.18%
	Feb	12,555	11,779	776	0.00%	6.18%
	Mar	12,165	11,413	752	0.00%	6.18%
	Apr	15,008	14,080	928	0.00%	6.18%
	May	16,052	15,060	992	0.00%	6.18%
	Jun	16,461	15,444	1,018	0.00%	6.18%
	Jul	15,215	14,274	940	0.00%	6.18%
	Aug	16,456	15,439	1,017	0.00%	6.18%
	Sep	16,636	15,608	1,028	0.00%	6.18%
	Oct	16,207	15,205	1,002	0.00%	6.18%
	Nov	16,080	15,086	994	0.00%	6.18%
	Dec	15,043	14,113	930	0.00%	6.18%
2033	Jan	12,959	12,197	763	0.00%	5.88%
	Feb	13,325	12,541	784	0.00%	5.88%
	Mar	12,911	12,151	760	0.00%	5.88%
	Apr	15,928	14,991	937	0.00%	5.88%
	May	17,037	16,034	1,003	0.00%	5.88%
	Jun	17,471	16,443	1,028	0.00%	5.88%
	Jul	16,148	15,198	950	0.00%	5.88%
	Aug	17,465	16,438	1,028	0.00%	5.88%
	Sep	17,656	16,617	1,039	0.00%	5.88%
	Oct	17,201	16,189	1,012	0.00%	5.88%
	Nov	17,066	16,062	1,004	0.00%	5.88%
	Dec	15,965	15,026	940	0.00%	5.88%

MWh Offtake was forecasted using Regression Analysis. It is the net of the Bilateral Contract Quantity and the WESM Exposure for the imbalances.

System Loss was calculated based on the projected Metered Quantity and Energy Sales. The MQ and kWh Sales were forecasted using the Regression Data Analysis tool. The Technical Loss was determined through a Load Flow Study conducted monthly of the base year 2023 using the DSAS software. Based on the same study, the Distribution System can adequately convey electricity to customers.

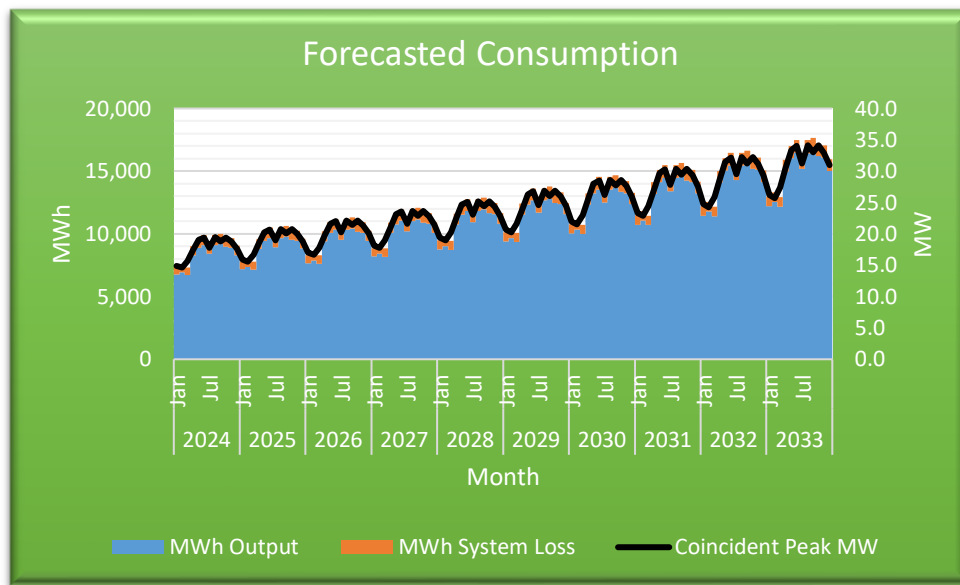


Figure 14: Forecasted Consumption

MWh Output was expected to grow at a rate of 7.9% annually.

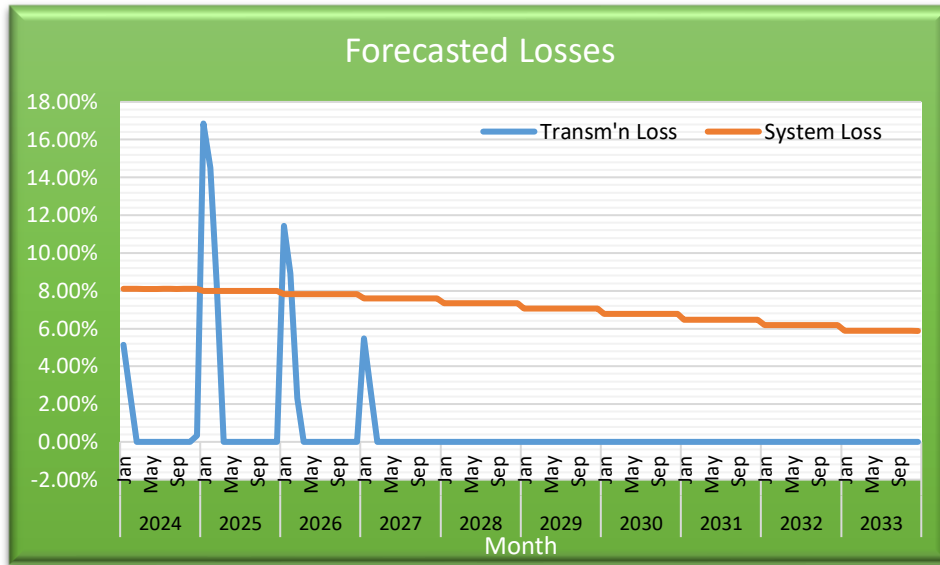


Figure 15: Forecasted Losses

Transmission Loss or the SSLA is already incorporated to the Total System Loss which is expected to range from 8.10% to 5.88%.



Power Supply

Table 5: Contracted Power Supply Application to ERC

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
GNPD EPSA (Pre-Filing)	Base	GN Power Dinginin	16.00	98,112	9/15/2023	9/14/2024

The EPSA with GNPD is currently at the pre-filing stage at ERC. This was procured through an Emergency Procurement Process conducted by LEYECO IV following the ERC Order terminating the PPSA with GNPD. It was selected to provide for base requirements effective September 15, 2023 until September 15, 2024.

Table 6: For CSP Schedule

Particulars	R8JCPSP
Type	Base
Minimum MW	18.00
Minimum MWh/yr	110,376
PSA Start	9/15/2024
PSA End	12/25/2033
Publication	2/21/2024
Pre-bid	3/13/2024
Opening	5/12/2024
Awarding	6/11/2024
PSA Signing	7/11/2024
Joint Filing	7/20/2024

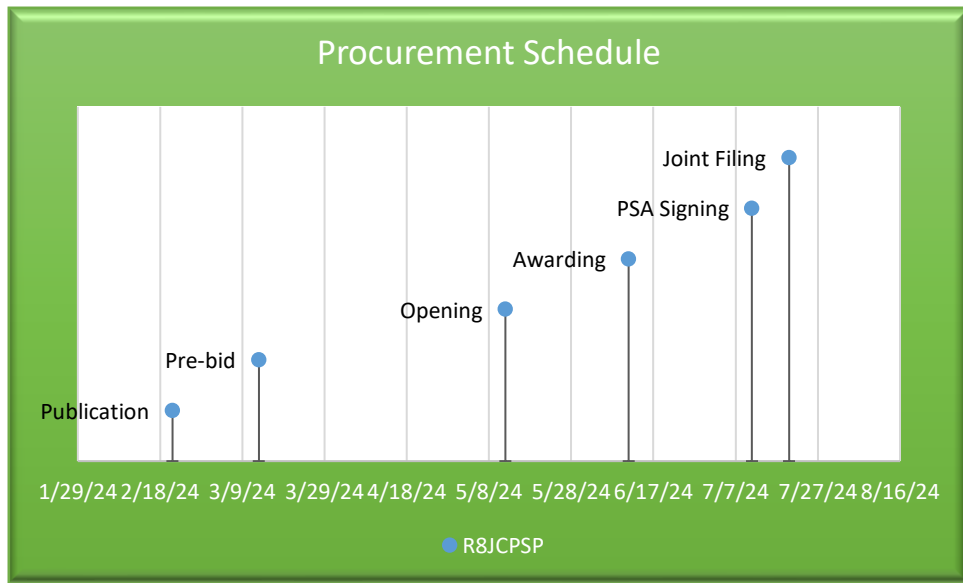


Figure 16: For CSP Schedule Timeline

For the procurement of 18MW of supply is planned to be available on September 15, 2024. Joint filing is planned on or before July 20, 2024, or 180 days later, in accordance with Department of Energy (DOE) Department Circular No. DC2023-06-0021, Energy Regulatory Commission (ERC) Resolution No. 16, Series of 2023, and National Electrification Administration (NEA) Memorandum No. 2023-57.

Captive Customer Connections

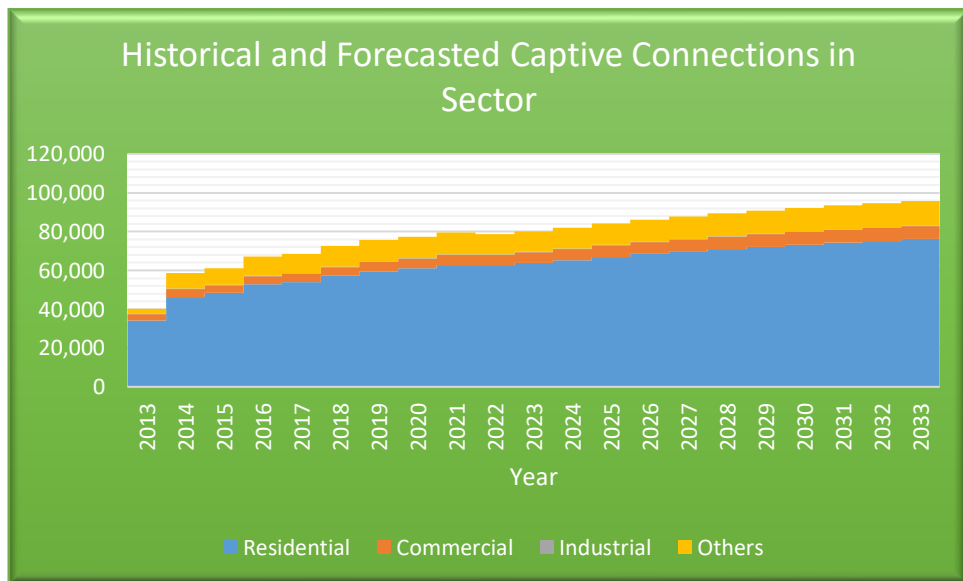


Figure 17: Historical and Forecasted Captive Connections



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The number of captive customer connections is expected to grow at a rate of 2.28% annually for years 2024 to 2033. Residential customers account for the bulk of energy sales at 52.66% due to the high number of connections at 79.53% for 2023.