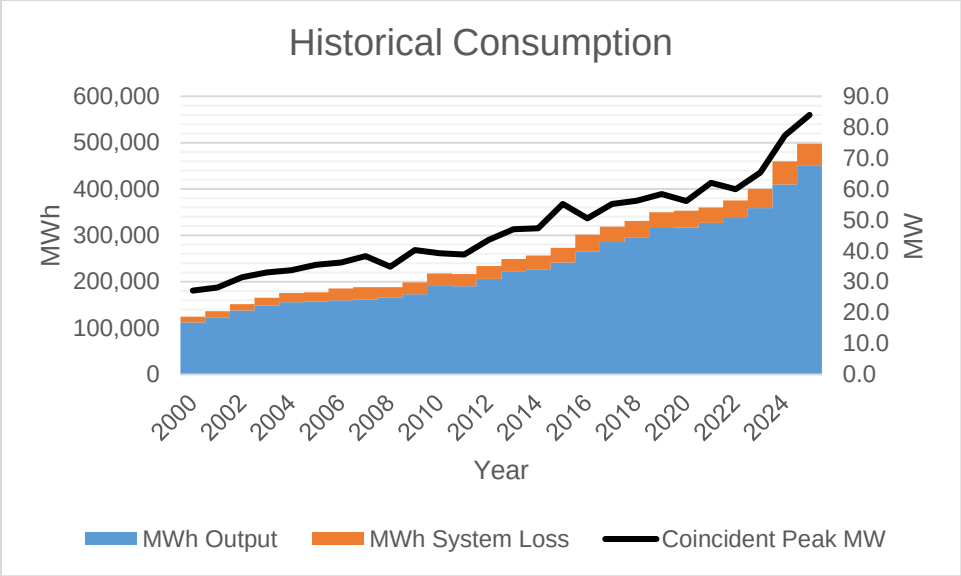
Power Supply Procurement Plan 2026

ILOCOS NORTE ELECTRIC COOPERATIVE, INC.

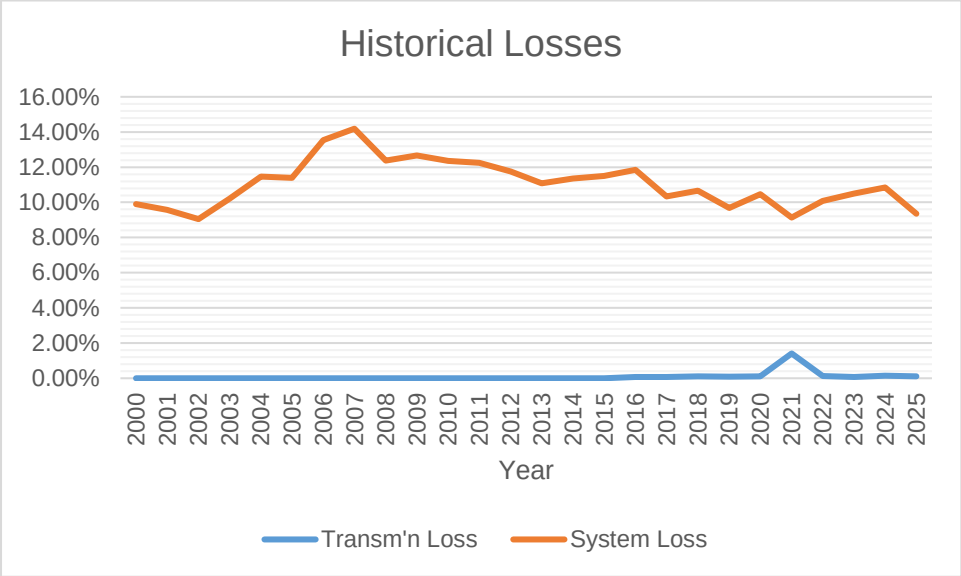
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	27.14	125,012	0	125,012	112,636	12,375	53%	0.00%	0.00%	9.90%
2001	28.14	136,387	0	136,387	123,345	13,043	55%	0.00%	0.00%	9.56%
2002	31.44	151,644	0	151,644	137,924	13,720	55%	0.00%	0.00%	9.05%
2003	32.97	165,706	0	165,706	148,791	16,915	57%	0.00%	0.00%	10.21%
2004	33.69	176,093	0	176,093	155,917	20,175	60%	0.00%	0.00%	11.46%
2005	35.49	177,307	0	177,307	157,092	20,214	57%	0.00%	0.00%	11.40%
2006	36.24	185,292	0	185,292	160,208	25,084	58%	0.00%	0.00%	13.54%
2007	38.32	188,039	0	188,039	161,363	26,677	56%	0.00%	0.00%	14.19%
2008	34.91	188,489	0	188,489	165,173	23,316	62%	0.00%	0.00%	12.37%
2009	40.28	198,520	0	198,520	173,390	25,130	56%	0.00%	0.00%	12.66%
2010	39.21	217,710	0	217,710	190,815	26,894	63%	0.00%	0.00%	12.35%
2011	38.85	216,563	0	216,563	190,023	26,540	64%	0.00%	0.00%	12.26%
2012	43.61	233,708	0	233,708	206,234	27,475	61%	0.00%	0.00%	11.76%
2013	47.04	249,135	0	249,135	221,524	27,611	60%	0.00%	0.00%	11.08%
2014	47.28	256,416	0	256,416	227,304	29,112	62%	0.00%	0.00%	11.35%
2015	55.15	272,908	0	272,908	241,537	31,371	56%	0.00%	0.00%	11.50%
2016	50.50	301,666	0	301,463	265,758	35,705	68%	0.00%	0.07%	11.84%
2017	55.19	318,720	0	318,471	285,555	32,917	66%	0.00%	0.08%	10.34%
2018	56.22	331,682	-35,139	331,326	295,972	35,354	67%	0.00%	0.11%	10.67%
2019	58.34	350,455	-63,474	350,132	316,225	33,907	69%	0.00%	0.09%	9.68%
2020	56.09	353,921	-50,930	353,514	316,521	36,993	72%	0.00%	0.12%	10.46%
2021	62.06	365,302	-26,555	360,150	327,225	32,926	66%	0.00%	1.41%	9.14%
2022	59.99	376,044	56,541	375,584	337,733	37,851	71%	0.00%	0.12%	10.08%
2023	65.28	400,927	54,554	400,636	358,546	42,090	70%	0.00%	0.07%	10.51%
2024	77.32	460,363	148,261	459,702	409,803	49,899	68%	0.00%	0.14%	10.85%
2025	83.99	498,415	28,384	497,910	451,345	46,564	68%	0.00%	0.10%	9.35%

Peak Demand increased from 77.32MW in 2024 to 83.99MW in 2025 at a rate of 8.63% due to very high heat index experienced in the province during the summer season which led to the increase in usage of cooling equipment such as air-conditioning units, electric fan, refrigerator and etc. MWh Offtake increased from 460,363MWh in 2024 to 498,415MWh in 2025 at a rate of 8.27% due to increase in demand and sudden increase in number of new customer connection. Within the same period, Load Factor ranged at 68%. A significant increase in energy consumption was observed in 2025, primarily attributed to increase in demand from educational institutions, hospital facilities, commercial establishments, and the tourism sector. This increase was further amplified by the opening of SM Laoag and Ilocos Norte's hosting of the Palarong Pambansa 2025, both of which significantly contributed to the increase in electricity demand and overall energy utilization.

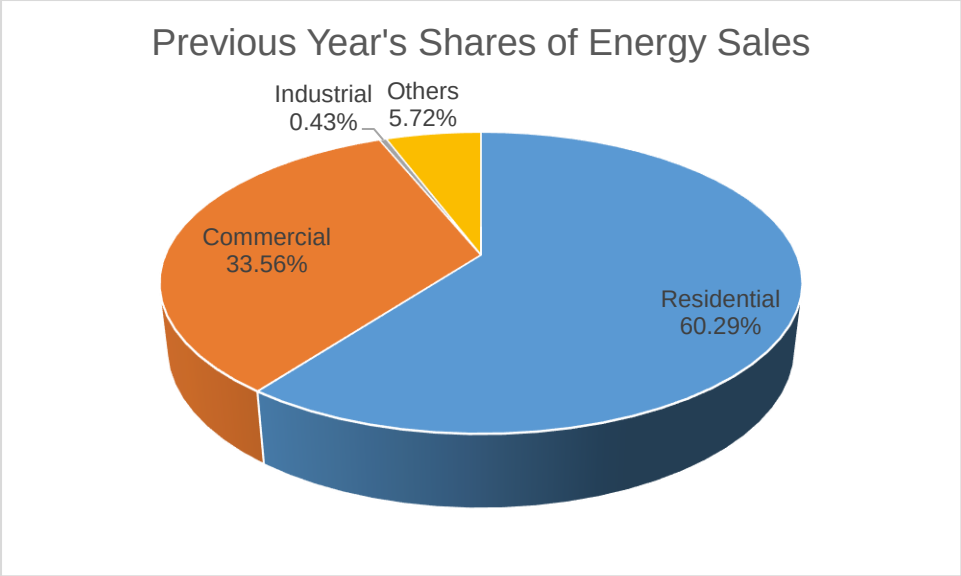


MWh Output increased from year 2024 to year 2025 at a rate of 10.14%, while MWh System Loss decreased at a rate of 6.68% within the same period.

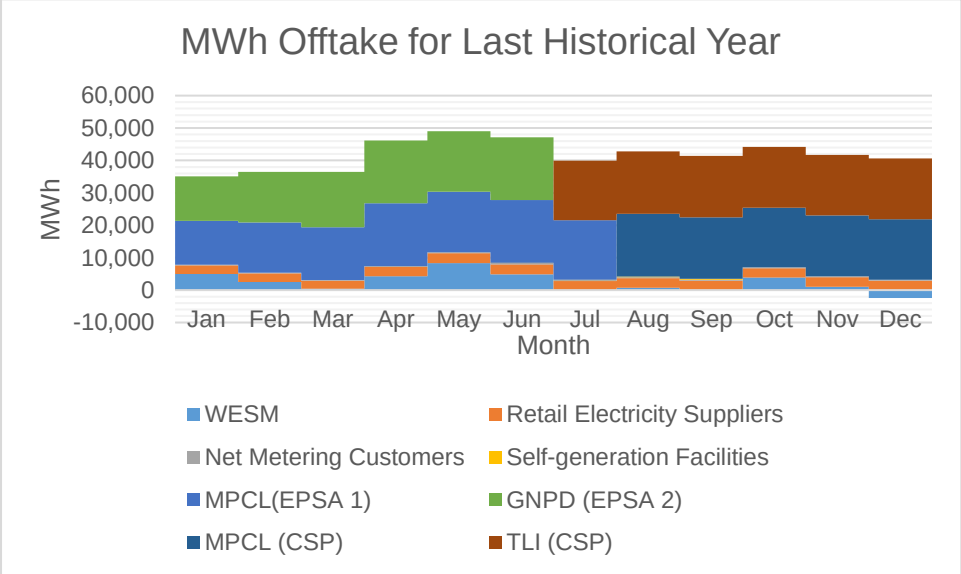


Historically, Transmission Loss ranged from 0.07% to 1.41% while System Loss ranged from 9.05% to 14.19%. Transmission Loss peaked at 1.41% on year 2021. System Loss peaked at 14.19% on year 2007 because of high technical and non-technical losses.

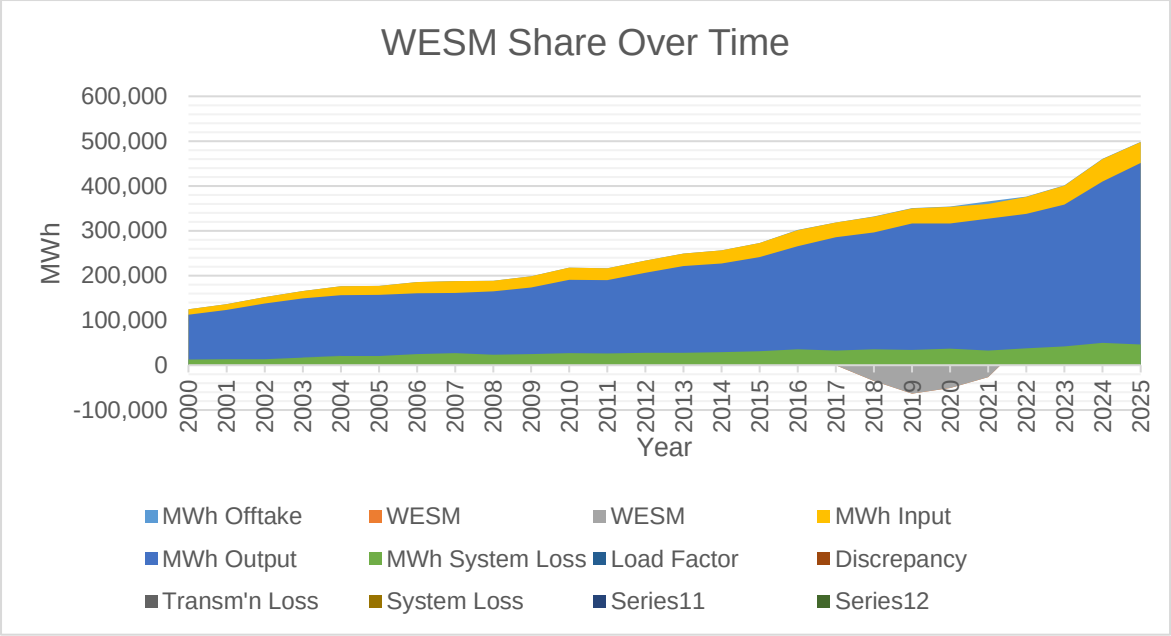
Non-Technical Loss is zero in value because computed technical loss is greater than the system loss based on the output of Distribution System Distribution System Application Software (DSAS) and Distribution System Loss (DSL) Segregator Software.



Residential customers account for the bulk of energy sales at 60.29% due to the high number of connections. In contrast, industrial customers accounted for only 0.43% of energy sales due to the low number of connections and energy utilization.

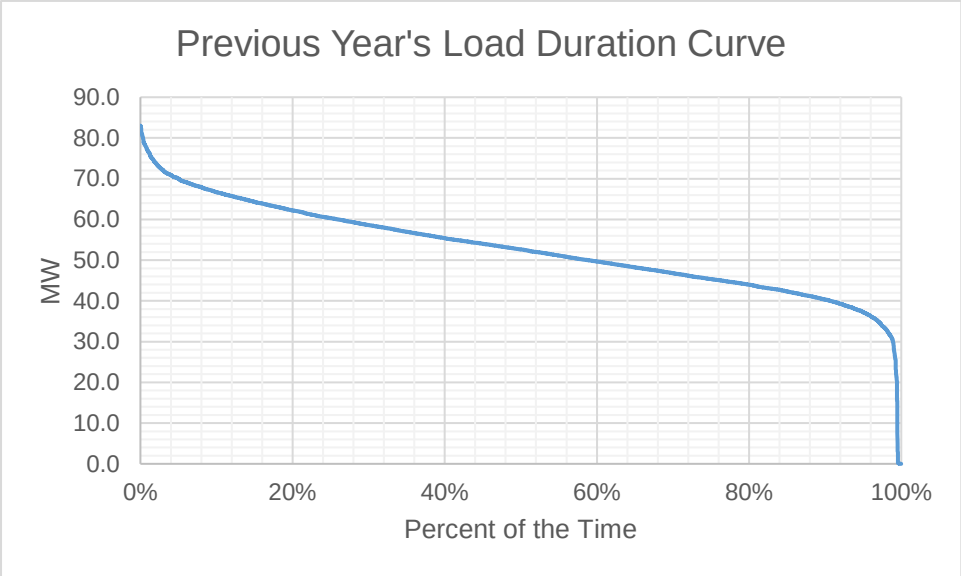


For 2025, the total Offtake for the last historical year is within the quantity stipulated in the EPSA. The EPSA with 65% to 100% Capacity Utilization Factor (CUF) accounts for the bulk of MWh Offtake

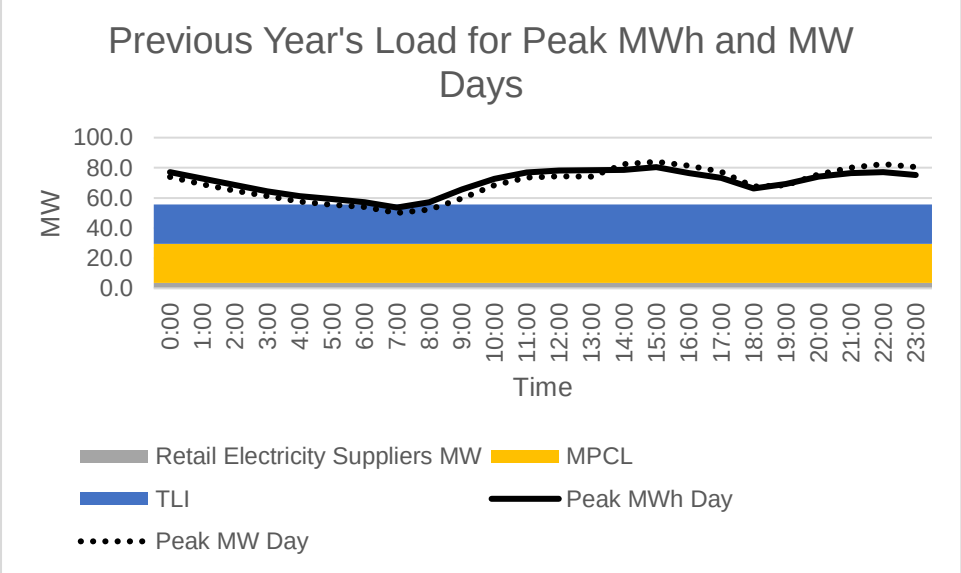


WESM Offtake decreased from 148,261MWh in 2024 to 28,384MWh in 2025 at a rate of 80.86% due to the commencement of the Power Supply Agreement from MPCL and TLI. The share of WESM in the total Offtake ranged from -18.11% to 32.21%. The net WESM transaction is negative from 2018 to 2021 due to surplus energy during off-peak months, resulting in lower market purchases and increased energy injections into the Wholesale Electricity Spot Market.

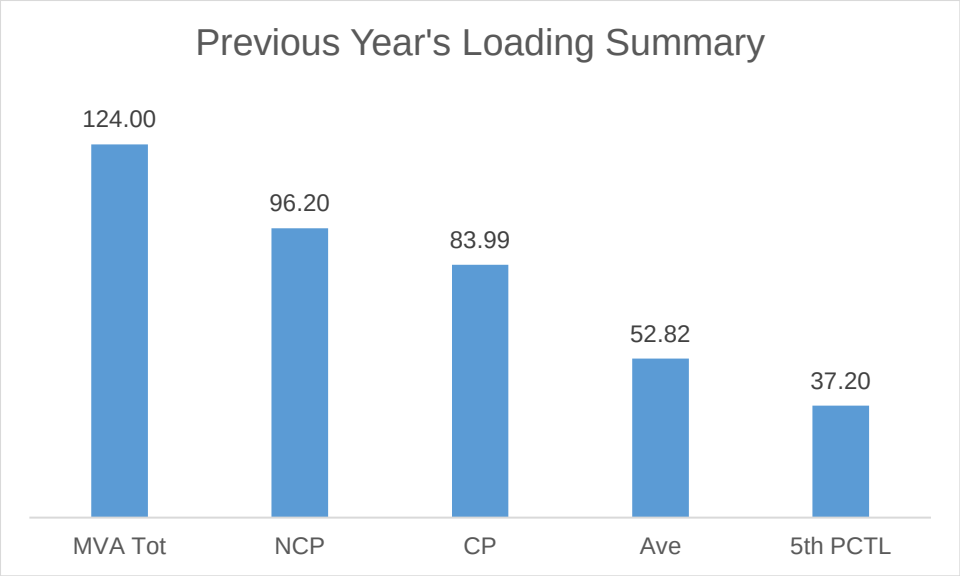
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 0.134 MW and the maximum load is 83.992 MW for the last historical year.



Peak MW and Peak daily MWh both occurred on hour 15 where the load consumption and temperature are high. Electricity demand reaches its peak during this period as lighting loads in offices, schools, and commercial establishments are at their highest, while the majority of air-cooling and air-conditioning systems operate continuously in response to elevated ambient temperatures and high heat index conditions from noon until afternoon. As shown in the Load Curve, the available supply is lower than the Peak Demand. There are some parts of the day that demand is lower than the supply especially in the morning where the off-peak is experienced.



The Non-coincident Peak Demand is 96.20 MW, which is around 77.58% of the total substation capacity of 124 MVA at a power factor of 99.39%. The load factor or the ratio between the Average Load of 52.82MW and the Non-coincident Peak Demand is 54.91% of. A safe estimate of the true minimum load is the fifth percentile load of 37.20 MW which is 38.67% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
MARTAN (MF3MLAOINEC01)	35	31.773
CURRIMAO (MF3MCURINEC03)	10	8.822
SAN NICOLAS. LAOAG 3, & VVH TOTALIZER (MF3MLAOINEC10)	40	29.194
BATAC AND BADOC TOTALIZER (MF3MCURINEC11)	25	16.096
BURGOS (MF3MLAOINEC06)	12	10.309
MHPP	2	0.001

The substations connected to the MarTan Totalizer with loading levels above 70% are Marcos, Tangaoan, Laoag 1, Laoag 2, and Dingras. This loading concern will be addressed by upgrading the power transformers to 10 MVA capacity at Tangaoan, Marcos, and Dingras Substations, and installing an additional power transformer in the Municipality of Bacarra. Meanwhile, Laoag 3 Substation, which is connected to the San Nicolas Totalizer, also has a loading level above 70%. This will be addressed by installing an additional 10 MVA power transformer at Laoag 3 Substation. On the other hand, Currimao Substation is already below the 70% loading level following the energization of Badoc Substation.

The labeling of metering points is based on the NGCP metering tags, as NGCP has already implemented its Metering Totalizer Scheme, such as the Martan Line, which comprises of Laoag 1, Laoag 2, Tangaoan, Dingras, and Marcos substations.

Forecasted Consumption Data

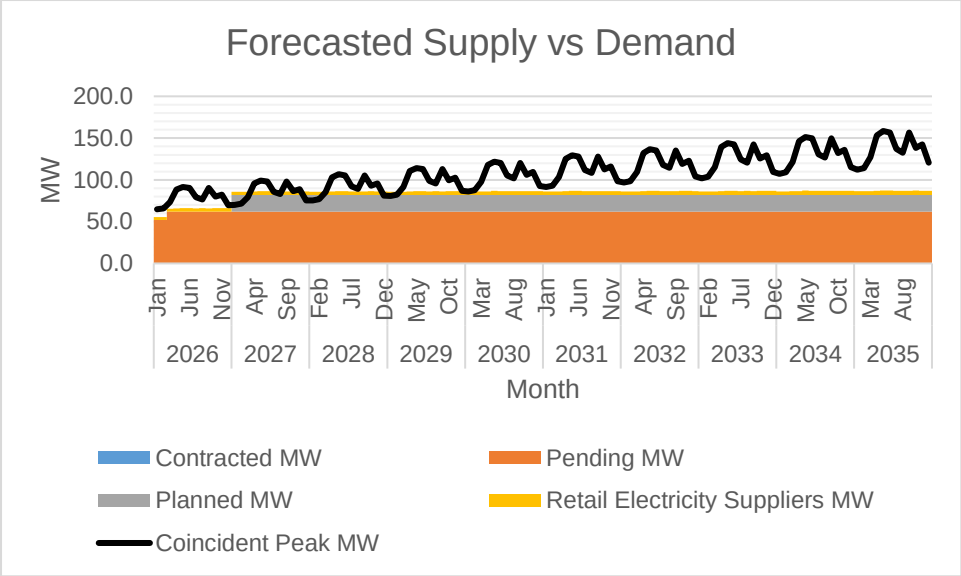
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2026	Jan	64.85	0.00	52.00	0.000	3.60	0%	85%	-9.25
	Feb	66.02	0.00	52.00	0.000	3.58	0%	83%	-10.44
	Mar	73.37	0.00	62.00	0.000	3.64	0%	89%	-7.73
	Apr	88.60	0.00	62.00	0.000	3.91	0%	73%	-22.69
	May	91.58	0.00	62.00	0.000	4.32	0%	71%	-25.26
	Jun	90.51	0.00	62.00	0.000	4.25	0%	72%	-24.26
	Jul	79.14	0.00	62.00	0.000	4.02	0%	83%	-13.12
	Aug	76.64	0.00	62.00	0.000	4.10	0%	85%	-10.54
	Sep	90.51	0.00	62.00	0.000	3.97	0%	72%	-24.55
	Oct	79.85	0.00	62.00	0.000	4.17	0%	82%	-13.68
	Nov	82.25	0.00	62.00	0.000	4.13	0%	79%	-16.13
	Dec	69.74	0.00	62.00	0.000	4.07	0%	94%	-3.68
2027	Jan	70.17	0.00	62.00	20.000	3.69	0%	123%	15.52
	Feb	71.43	0.00	62.00	20.000	3.67	0%	121%	14.23
	Mar	79.39	0.00	62.00	20.000	3.74	0%	108%	6.34
	Apr	95.87	0.00	62.00	20.000	4.01	0%	89%	-9.86
	May	99.09	0.00	62.00	20.000	4.43	0%	87%	-12.66
	Jun	97.94	0.00	62.00	20.000	4.36	0%	88%	-11.58
	Jul	85.63	0.00	62.00	20.000	4.12	0%	101%	0.49
	Aug	82.93	0.00	62.00	20.000	4.20	0%	104%	3.27
	Sep	97.94	0.00	62.00	20.000	4.07	0%	87%	-11.87
	Oct	86.40	0.00	62.00	20.000	4.28	0%	100%	-0.12
	Nov	89.00	0.00	62.00	20.000	4.23	0%	97%	-2.77
	Dec	75.46	0.00	62.00	20.000	4.17	0%	115%	10.71
2028	Jan	75.53	0.00	62.00	20.000	3.78	0%	114%	10.25
	Feb	76.89	0.00	62.00	20.000	3.76	0%	112%	8.87
	Mar	85.45	0.00	62.00	20.000	3.83	0%	100%	0.37
	Apr	103.19	0.00	62.00	20.000	4.10	0%	83%	-17.08

	May	106.66	0.00	62.00	20.000	4.54	0%	80%	-20.12
	Jun	105.41	0.00	62.00	20.000	4.47	0%	81%	-18.95
	Jul	92.17	0.00	62.00	20.000	4.22	0%	93%	-5.95
	Aug	89.26	0.00	62.00	20.000	4.31	0%	97%	-2.96
	Sep	105.41	0.00	62.00	20.000	4.16	0%	81%	-19.25
	Oct	92.99	0.00	62.00	20.000	4.38	0%	93%	-6.61
	Nov	95.79	0.00	62.00	20.000	4.33	0%	90%	-9.46
	Dec	81.23	0.00	62.00	20.000	4.27	0%	107%	5.04
2029	Jan	80.89	0.00	62.00	20.000	3.87	0%	106%	4.98
	Feb	82.35	0.00	62.00	20.000	3.84	0%	104%	3.50
	Mar	91.52	0.00	62.00	20.000	3.92	0%	94%	-5.60
	Apr	110.51	0.00	62.00	20.000	4.20	0%	77%	-24.31
	May	114.23	0.00	62.00	20.000	4.64	0%	75%	-27.59
	Jun	112.90	0.00	62.00	20.000	4.57	0%	76%	-26.33
	Jul	98.71	0.00	62.00	20.000	4.32	0%	87%	-12.39
	Aug	95.60	0.00	62.00	20.000	4.41	0%	90%	-9.19
	Sep	112.90	0.00	62.00	20.000	4.26	0%	75%	-26.63
	Oct	99.60	0.00	62.00	20.000	4.48	0%	86%	-13.11
	Nov	102.59	0.00	62.00	20.000	4.43	0%	84%	-16.16
	Dec	86.99	0.00	62.00	20.000	4.37	0%	99%	-0.62
2030	Jan	86.23	0.00	62.00	20.000	3.96	0%	100%	-0.27
	Feb	87.78	0.00	62.00	20.000	3.93	0%	98%	-1.85
	Mar	97.56	0.00	62.00	20.000	4.01	0%	88%	-11.56
	Apr	117.81	0.00	62.00	20.000	4.30	0%	72%	-31.51
	May	121.77	0.00	62.00	20.000	4.75	0%	70%	-35.02
	Jun	120.35	0.00	62.00	20.000	4.68	0%	71%	-33.67
	Jul	105.23	0.00	62.00	20.000	4.42	0%	81%	-18.81
	Aug	101.91	0.00	62.00	20.000	4.51	0%	84%	-15.40
	Sep	120.35	0.00	62.00	20.000	4.36	0%	71%	-33.99
	Oct	106.17	0.00	62.00	20.000	4.59	0%	81%	-19.59
	Nov	109.37	0.00	62.00	20.000	4.54	0%	78%	-22.83
	Dec	92.74	0.00	62.00	20.000	4.47	0%	93%	-6.26
2031	Jan	91.53	0.00	62.00	20.000	4.05	0%	94%	-5.49

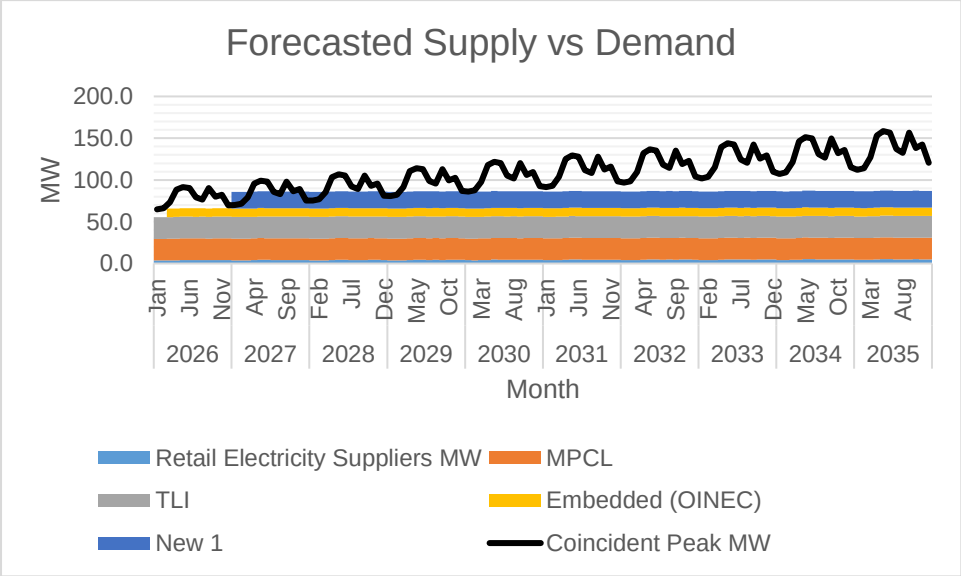
	Feb	93.19	0.00	62.00	20.000	4.02	0%	92%	-7.16
	Mar	103.57	0.00	62.00	20.000	4.10	0%	82%	-17.47
	Apr	125.06	0.00	62.00	20.000	4.40	0%	68%	-38.66
	May	129.27	0.00	62.00	20.000	4.86	0%	66%	-42.41
	Jun	127.76	0.00	62.00	20.000	4.78	0%	67%	-40.98
	Jul	111.70	0.00	62.00	20.000	4.52	0%	77%	-25.19
	Aug	108.18	0.00	62.00	20.000	4.61	0%	79%	-21.57
	Sep	127.76	0.00	62.00	20.000	4.46	0%	67%	-41.30
	Oct	112.71	0.00	62.00	20.000	4.69	0%	76%	-26.01
	Nov	116.10	0.00	62.00	20.000	4.64	0%	74%	-29.46
	Dec	98.44	0.00	62.00	20.000	4.58	0%	87%	-11.87
2032	Jan	96.80	0.00	62.00	20.000	4.14	0%	88%	-10.66
	Feb	98.54	0.00	62.00	20.000	4.11	0%	87%	-12.43
	Mar	109.52	0.00	62.00	20.000	4.19	0%	78%	-23.33
	Apr	132.25	0.00	62.00	20.000	4.49	0%	64%	-45.75
	May	136.69	0.00	62.00	20.000	4.97	0%	62%	-49.73
	Jun	135.10	0.00	62.00	20.000	4.89	0%	63%	-48.21
	Jul	118.12	0.00	62.00	20.000	4.62	0%	72%	-31.50
	Aug	114.40	0.00	62.00	20.000	4.72	0%	75%	-27.68
	Sep	135.10	0.00	62.00	20.000	4.56	0%	63%	-48.54
	Oct	119.18	0.00	62.00	20.000	4.80	0%	72%	-32.39
	Nov	122.77	0.00	62.00	20.000	4.74	0%	69%	-36.03
	Dec	104.10	0.00	62.00	20.000	4.68	0%	82%	-17.42
2033	Jan	102.00	0.00	62.00	20.000	4.23	0%	84%	-15.78
	Feb	103.84	0.00	62.00	20.000	4.20	0%	82%	-17.64
	Mar	115.41	0.00	62.00	20.000	4.28	0%	74%	-29.13
	Apr	139.36	0.00	62.00	20.000	4.59	0%	61%	-52.77
	May	144.05	0.00	62.00	20.000	5.07	0%	59%	-56.97
	Jun	142.37	0.00	62.00	20.000	5.00	0%	60%	-55.37
	Jul	124.48	0.00	62.00	20.000	4.72	0%	68%	-37.76
	Aug	120.55	0.00	62.00	20.000	4.82	0%	71%	-33.74
	Sep	142.37	0.00	62.00	20.000	4.66	0%	60%	-55.71
	Oct	125.60	0.00	62.00	20.000	4.90	0%	68%	-38.70

	Nov	129.38	0.00	62.00	20.000	4.85	0%	66%	-42.53
	Dec	109.70	0.00	62.00	20.000	4.78	0%	78%	-22.92
2034	Jan	107.15	0.00	62.00	20.000	4.32	0%	80%	-20.84
	Feb	109.09	0.00	62.00	20.000	4.29	0%	78%	-22.80
	Mar	121.24	0.00	62.00	20.000	4.37	0%	70%	-34.87
	Apr	146.40	0.00	62.00	20.000	4.69	0%	58%	-59.71
	May	151.32	0.00	62.00	20.000	5.18	0%	56%	-64.14
	Jun	149.56	0.00	62.00	20.000	5.10	0%	57%	-62.46
	Jul	130.76	0.00	62.00	20.000	4.82	0%	65%	-43.94
	Aug	126.64	0.00	62.00	20.000	4.92	0%	67%	-39.72
	Sep	149.56	0.00	62.00	20.000	4.76	0%	57%	-62.80
	Oct	131.94	0.00	62.00	20.000	5.00	0%	65%	-44.93
	Nov	135.91	0.00	62.00	20.000	4.95	0%	63%	-48.96
	Dec	115.24	0.00	62.00	20.000	4.88	0%	74%	-28.36
2035	Jan	112.24	0.00	62.00	20.000	4.41	0%	76%	-25.84
	Feb	114.27	0.00	62.00	20.000	4.38	0%	75%	-27.89
	Mar	127.00	0.00	62.00	20.000	4.46	0%	67%	-40.54
	Apr	153.35	0.00	62.00	20.000	4.79	0%	55%	-66.56
	May	158.51	0.00	62.00	20.000	5.29	0%	54%	-71.22
	Jun	156.66	0.00	62.00	20.000	5.21	0%	54%	-69.45
	Jul	136.97	0.00	62.00	20.000	4.92	0%	62%	-50.06
	Aug	132.66	0.00	62.00	20.000	5.02	0%	64%	-45.63
	Sep	156.66	0.00	62.00	20.000	4.86	0%	54%	-69.81
	Oct	138.21	0.00	62.00	20.000	5.11	0%	62%	-51.10
	Nov	142.37	0.00	62.00	20.000	5.05	0%	60%	-55.31
	Dec	120.72	0.00	62.00	20.000	4.98	0%	71%	-33.73

The Peak Demand was forecasted using the historical energy, and from there, demand is obtained by utilizing the latest load factor at normal operation and was assumed to occur on the month of May where the load is expected to be highest because temperature is very high during this month due to summer season and El Nino phenomenon that give rise to extreme heat index experienced in the whole province. Monthly Peak Demand is at its lowest on the month of January due to low temperature brought by Amihan. In general, Peak Demand is expected to grow at a rate of 6.29% annually.

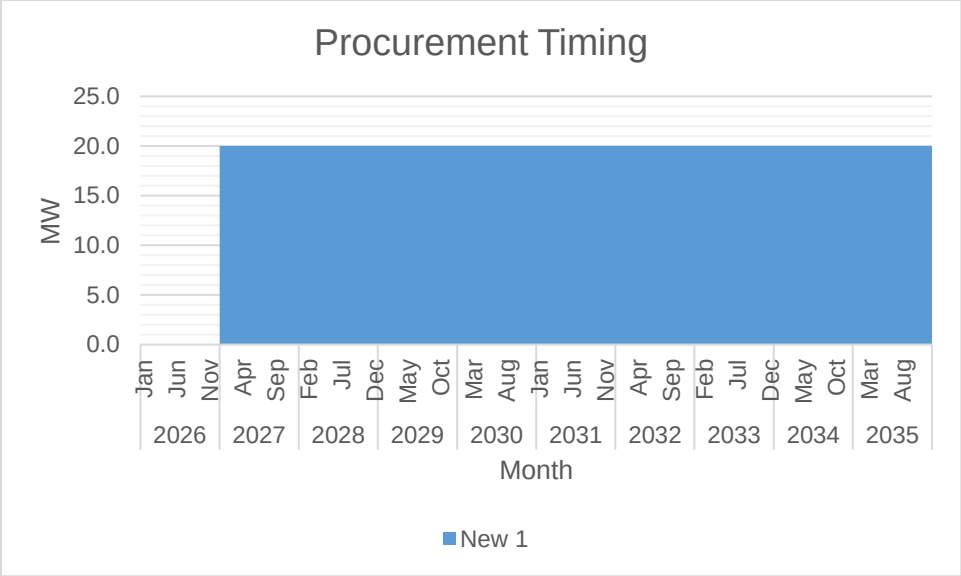


The available supply is generally below the Peak Demand. This is because the contracted capacity is lower than the peak, of which was obtained from the coop's economic consideration using the so-called "optimal power supply mix".

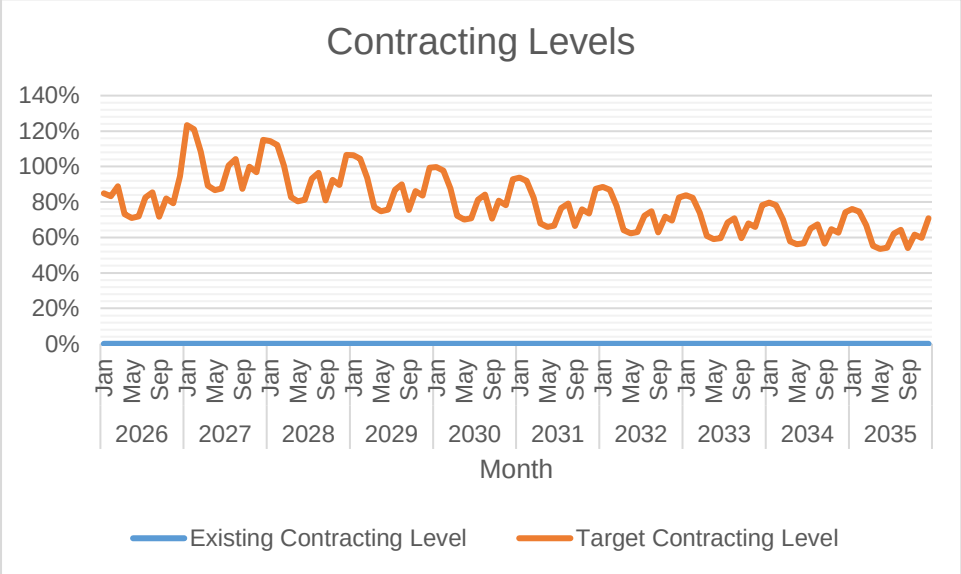


Of the available supply, the maximum is 52 MW PSA which is shared equally by Therma Luzon Inc. (TLI) with ERC Case No. 2025-075RC and Masinloc Power Company, Ltd. (MPCL) with ERC Case No. 2025-104RC. This is followed by 1.5 MW from MHPP. There is no PSA between INEC and MHPP because INEC owned the mini hydro power plant. However, MHPP is currently non-operational due to damage sustained during the onslaught of the typhoon. A 10-MW solar power plant operated by OINEC (ERC Case No. 2025-160RC) is scheduled to commence operations within the year and will be connected to INEC as an embedded generation facility.

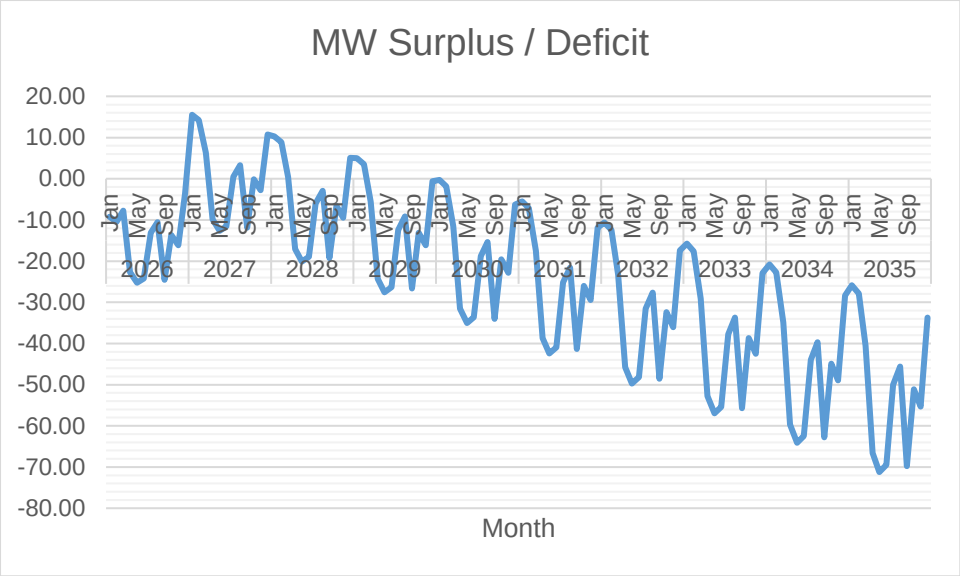
New 1 was designed to satisfy only the peaking of demand. Based on the forecast, January and February are considered as off peak months. However, Competitive Selection process for New 1 with 20MW Renewable Energy power will start this year.



The supply procurement for 52 MW base load was already available last June 26, 2025 and July 26, 2025 for TLI and MPCL respectively. For New 1, it is a 20MW peaking planned to be available by 2027.



Currently, there is a power contracting capacity of 52MW shared equally by Masinloc Power Co. Ltd. (MPCL) and Therma Luzon Inc. (TLI) for 15years and has been granted by Energy Regulatory Commission (ERC) with Provisional Authority for long-term power supply agreement. Based on the graph above, the highest target contracting level is 123% which is expected to occur around January 2027. The lowest target contracting level is 54% which is expected to occur around May 2035.



Currently, there is a Provisional Authority for contracting capacity of 52 MW. The highest deficit is 71.22 MW which is expected to occur on the month of May 2035. The lowest deficit is 0.12 MW which is expected to occur on the month of October 2027.The shortage or deficit in the contracted capacity will be sourced from WESM.

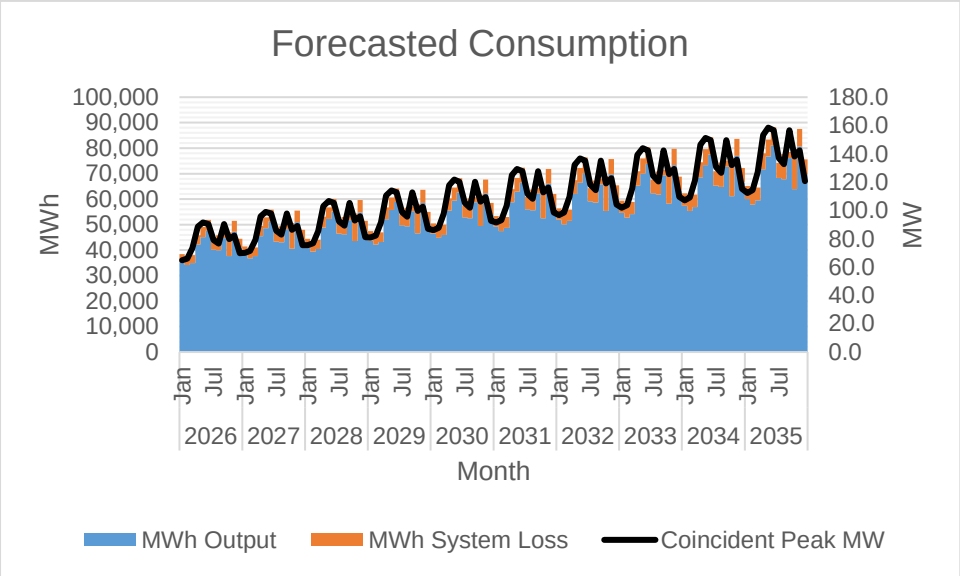
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2026	Jan	38,432	35,314	3,069	0.13%	8.00%
	Feb	37,141	34,118	2,996	0.08%	8.07%
	Mar	38,068	34,966	3,078	0.06%	8.09%
	Apr	45,902	42,134	3,741	0.06%	8.15%
	May	49,098	45,077	3,985	0.07%	8.12%
	Jun	51,890	47,620	4,230	0.08%	8.16%
	Jul	43,765	40,185	3,545	0.08%	8.11%
	Aug	45,848	39,917	5,897	0.07%	12.87%
	Sep	46,263	44,650	1,586	0.06%	3.43%
	Oct	46,976	37,673	9,273	0.06%	19.75%
	Nov	51,507	47,263	4,197	0.09%	8.16%
	Dec	44,561	40,905	3,599	0.13%	8.09%
2027	Jan	41,431	38,078	3,304	0.12%	7.98%
	Feb	40,036	36,785	3,223	0.07%	8.05%
	Mar	41,046	37,710	3,311	0.06%	8.07%
	Apr	49,501	45,450	4,024	0.05%	8.13%
	May	52,948	48,624	4,288	0.07%	8.10%
	Jun	55,965	51,375	4,551	0.07%	8.14%
	Jul	47,189	43,340	3,814	0.07%	8.09%
	Aug	49,434	43,041	6,359	0.07%	12.87%
	Sep	49,889	48,171	1,690	0.05%	3.39%
	Oct	50,658	40,614	10,014	0.06%	19.78%
	Nov	55,556	50,994	4,515	0.08%	8.13%
	Dec	48,048	44,118	3,873	0.12%	8.07%
2028	Jan	44,452	40,863	3,540	0.11%	7.97%
	Feb	42,951	39,473	3,450	0.06%	8.04%
	Mar	44,044	40,474	3,545	0.06%	8.05%

	Apr	53,125	48,791	4,307	0.05%	8.11%
	May	56,825	52,198	4,591	0.06%	8.08%
	Jun	60,069	55,158	4,872	0.07%	8.12%
	Jul	50,638	46,520	4,084	0.07%	8.07%
	Aug	53,046	46,189	6,823	0.06%	12.87%
	Sep	53,540	51,719	1,794	0.05%	3.35%
	Oct	54,365	43,577	10,758	0.06%	19.80%
	Nov	59,634	54,752	4,835	0.08%	8.11%
	Dec	51,561	47,356	4,148	0.11%	8.05%
2029	Jan	47,475	43,652	3,774	0.10%	7.96%
	Feb	45,867	42,163	3,676	0.06%	8.02%
	Mar	47,045	43,242	3,779	0.05%	8.04%
	Apr	56,752	52,136	4,590	0.05%	8.09%
	May	60,704	55,776	4,893	0.06%	8.06%
	Jun	64,177	58,945	5,192	0.06%	8.10%
	Jul	54,090	49,702	4,352	0.06%	8.05%
	Aug	56,660	49,340	7,286	0.06%	12.87%
	Sep	57,195	55,271	1,896	0.05%	3.32%
	Oct	58,076	46,543	11,502	0.05%	19.82%
	Nov	63,715	58,515	5,153	0.07%	8.09%
	Dec	55,076	50,597	4,421	0.10%	8.04%
2030	Jan	50,487	46,431	4,007	0.10%	7.94%
	Feb	48,774	44,845	3,901	0.06%	8.00%
	Mar	50,035	46,001	4,010	0.05%	8.02%
	Apr	60,366	55,470	4,870	0.04%	8.07%
	May	64,570	59,342	5,192	0.05%	8.05%
	Jun	68,269	62,720	5,509	0.06%	8.07%
	Jul	57,528	52,875	4,618	0.06%	8.03%
	Aug	60,262	52,482	7,746	0.06%	12.86%
	Sep	60,836	58,812	1,997	0.04%	3.28%
	Oct	61,773	49,500	12,242	0.05%	19.83%
	Nov	67,782	62,267	5,468	0.07%	8.07%
	Dec	58,578	53,829	4,692	0.10%	8.02%
2031	Jan	53,479	49,194	4,236	0.09%	7.93%
	Feb	51,662	47,511	4,123	0.05%	7.98%
	Mar	53,006	48,744	4,238	0.05%	8.00%
	Apr	63,957	58,784	5,146	0.04%	8.05%
	May	68,410	62,887	5,487	0.05%	8.03%
	Jun	72,335	66,473	5,822	0.05%	8.05%
	Jul	60,945	56,029	4,881	0.06%	8.01%
	Aug	63,840	55,604	8,202	0.05%	12.85%
	Sep	64,454	62,332	2,095	0.04%	3.25%
	Oct	65,446	52,440	12,976	0.05%	19.84%
	Nov	71,822	65,995	5,779	0.07%	8.05%
	Dec	62,058	57,041	4,960	0.09%	8.00%
2032	Jan	56,447	51,935	4,462	0.09%	7.91%
	Feb	54,525	50,156	4,341	0.05%	7.97%
	Mar	55,952	51,464	4,463	0.04%	7.98%
	Apr	67,517	62,072	5,419	0.04%	8.03%

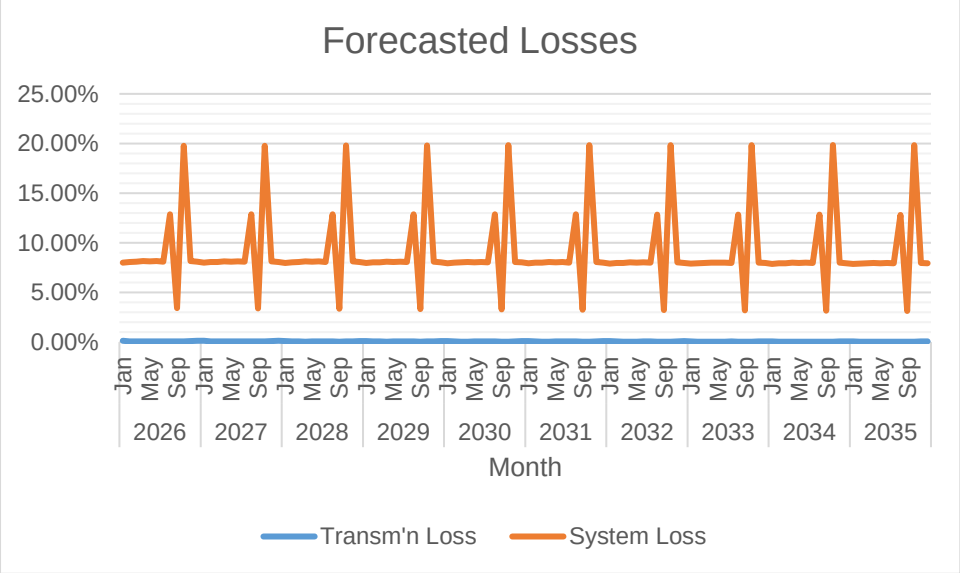
	May	72,219	66,404	5,779	0.05%	8.01%
	Jun	76,367	70,196	6,131	0.05%	8.03%
	Jul	64,333	59,158	5,140	0.05%	7.99%
	Aug	67,388	58,702	8,652	0.05%	12.85%
	Sep	68,041	65,823	2,190	0.04%	3.22%
	Oct	69,088	55,356	13,702	0.04%	19.84%
	Nov	75,828	69,694	6,086	0.06%	8.03%
	Dec	65,508	60,227	5,224	0.09%	7.98%
2033	Jan	59,385	54,650	4,685	0.08%	7.90%
	Feb	57,361	52,776	4,556	0.05%	7.95%
	Mar	58,868	54,159	4,684	0.04%	7.96%
	Apr	71,042	65,329	5,687	0.04%	8.01%
	May	75,989	69,888	6,066	0.05%	7.99%
	Jun	80,358	73,883	6,435	0.05%	8.01%
	Jul	67,687	62,257	5,395	0.05%	7.97%
	Aug	70,900	61,770	9,097	0.05%	12.84%
	Sep	71,593	69,282	2,283	0.04%	3.19%
	Oct	72,694	58,244	14,419	0.04%	19.84%
	Nov	79,794	73,358	6,389	0.06%	8.01%
	Dec	68,924	63,383	5,484	0.08%	7.96%
2034	Jan	62,291	57,338	4,904	0.08%	7.88%
	Feb	60,165	55,369	4,768	0.05%	7.93%
	Mar	61,753	56,827	4,902	0.04%	7.94%
	Apr	74,529	68,552	5,951	0.04%	7.99%
	May	79,719	73,336	6,348	0.04%	7.97%
	Jun	84,307	77,533	6,734	0.05%	7.99%
	Jul	71,005	65,325	5,646	0.05%	7.95%
	Aug	74,375	64,807	9,534	0.05%	12.83%
	Sep	75,106	72,705	2,374	0.04%	3.16%
	Oct	76,261	61,103	15,127	0.04%	19.84%
	Nov	83,717	76,984	6,686	0.06%	7.99%
	Dec	72,303	66,507	5,740	0.08%	7.94%
2035	Jan	65,164	59,995	5,120	0.08%	7.86%
	Feb	62,938	57,934	4,976	0.04%	7.91%
	Mar	64,605	59,464	5,116	0.04%	7.92%
	Apr	77,976	71,739	6,210	0.03%	7.97%
	May	83,406	76,746	6,625	0.04%	7.95%
	Jun	88,210	81,142	7,028	0.05%	7.97%
	Jul	74,285	68,358	5,892	0.05%	7.94%
	Aug	77,810	67,811	9,966	0.04%	12.81%
	Sep	78,579	76,090	2,462	0.03%	3.13%
	Oct	79,787	63,931	15,826	0.04%	19.84%
	Nov	87,595	80,570	6,978	0.05%	7.97%
	Dec	75,644	69,596	5,991	0.08%	7.93%

MWh Offtake was forecasted using seven years of historical data using Trend Analysis with the mean percentage error (MAPE) of 0.93% and adjusted R^2 of 99.33%. The assumed load factor is 62.89% at normal operation.

System Loss was calculated through a Load Flow Study conducted on 2025 by Distribution System Loss Template output using Distribution System Application software (DSAS)/ Distribution System Loss Segregator. System loss is expected to decrease, assuming that the planned projects is implemented during each year.
Based on the same study, the Distribution System can adequately convey electricity to customers



MWh Output was expected to grow at average rate of 6.09% annually.



Transmission Loss is expected to range from 0.03% to 0.13% while System Loss is expected to range from 3.13% to 19.84%.

Power Supply

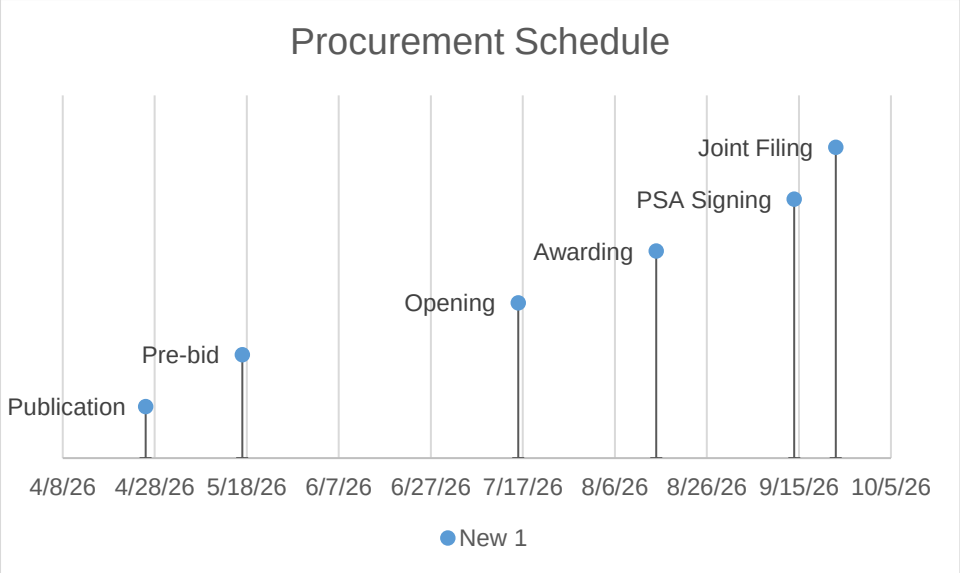
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End

Mini-hydro power plant is DU-owned generator. The output is very minimal compared to the demand of the DU. Currently, MHPP is non-operational due to some of its parts were damaged during onslaught of typhoon in the province.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	Maximum MW	Maximum MWh/yr	PSA Start	PSA End
ERC Case No. 2025-104RC (MPCL)	Base	Masinloc Power Company, Ltd.	16.90	148,044	26	227,760	7/26/2025	7/25/2040
ERC Case No. 2025-075RC (TLI)	Base	Therma Luzon, Inc.	16.90	148,044	26	227,760	7/26/2025	7/25/2040
ERC Case No. 2025-160RC (OINEC)	Intermediate	Other	10.00	15,099	10	87,600	2/26/2026	12/25/2046

The Power Supply Agreement with TLI and MPCL was done through Competitive Selection Process in 2024. It was selected to provide for base load supply requirements of the DU. The Embedded generator is a solar power plant (One Ilocos Norte Energy Corporation (OINEC)) is expected to deliver on the first or second quarter of year 2026. As of to date, the construction of the solar farm and the associated 69-kV subtransmission line is nearing completion, with testing and commissioning activities scheduled to commence shortly. With respect to regulatory status, the project has already secured a Provisional Authority from the Energy Regulatory Commission (ERC).

	New 1
Type	Peaking
Minimum MW	13.00
Minimum MWh/yr	12,673
Maximum MW	20.00
Maximum MWh/yr	175,200
PSA Start	12/26/2026
PSA End	12/25/2041
Publication	4/26/2026
Pre-bid	5/17/2026
Opening	7/16/2026
Awarding	8/15/2026
PSA Signing	9/14/2026
Joint Filing	9/23/2026

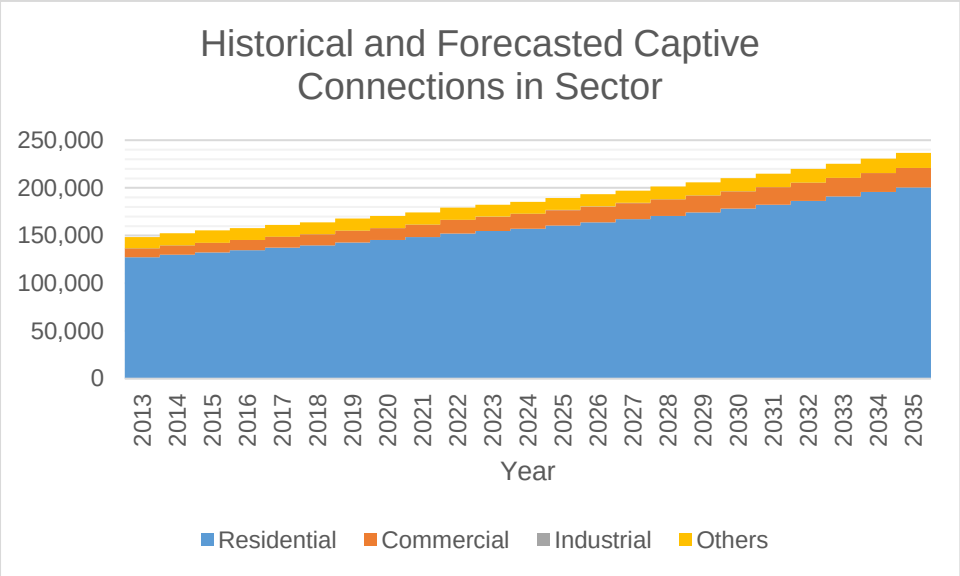


For the procurement of 20 MW of supply which is planned to be available on December 26, 2026 or the next immediate 26th day of the month following the ERC's issuance of a Provisional Authority or Interim Relief (as applicable) or Final Authority (if neither Provisional Authority nor Interim Relief was issued by the ERC) for the implementation of this agreement. The first publication or launch of CSP will be on April 26, 2026. Joint filing is planned on September 14, 2026, or 180 days later, in accordance with the 2023 DOE CSP Policy as amended and supplemented by the 2025 DOE Policy.

Any shortfall in the contracted capacity will be met through purchases from the Wholesale Electricity Spot Market (WESM).

The New 1 is planned to be sourced from renewable energy resources and will be served for INEC's peaking demand requirement.

Captive Customer Connections



The number of Residential connections is expected to grow at an average rate of 2.25% annually. Residential customer class is expected to account for 84.77% of the total customer connections. A correction was made to address inconsistencies in the historical data for commercial and industrial consumers. The 2023 data had accidentally included four contestable consumers. This error has been corrected in the 2024 PSPP file, which resulted in an adjustment to the previously reported figures.