

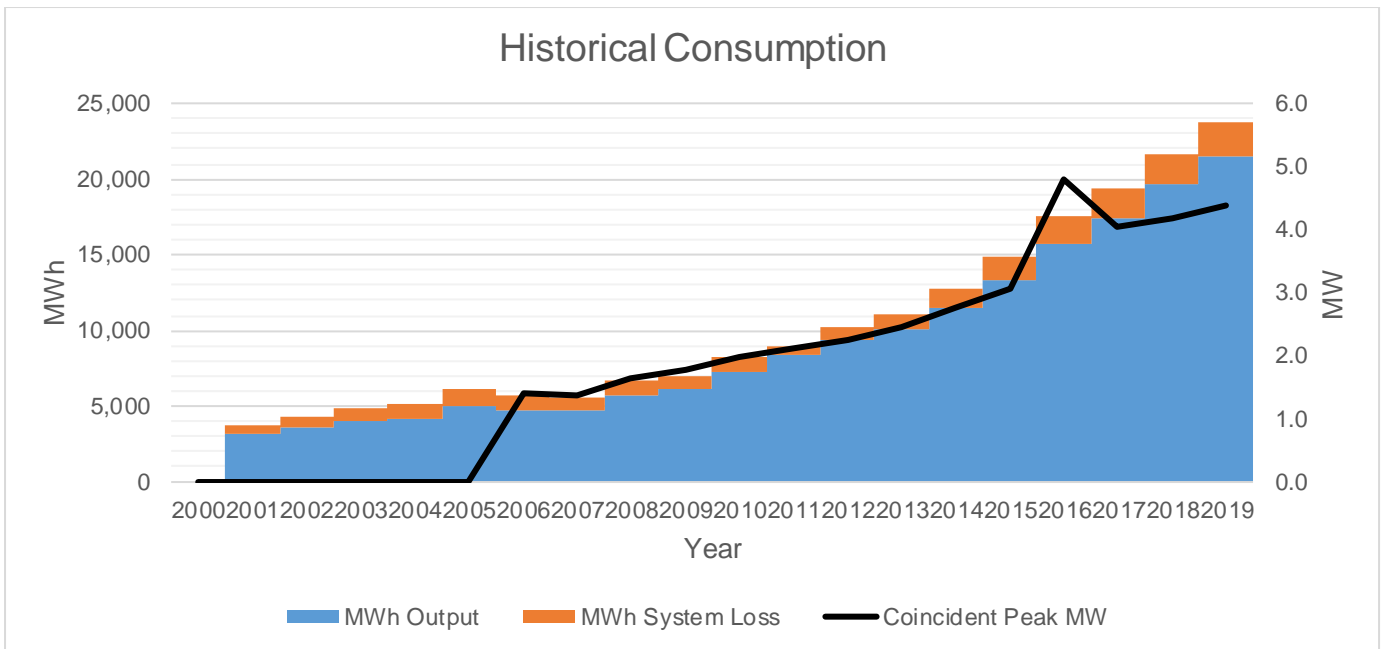
Power Supply Procurement Plan 2020

**Sultan Kudarat Electric Cooperative, Inc. (SUKELCO)
SIIG (Lebak & Kalamansig)**

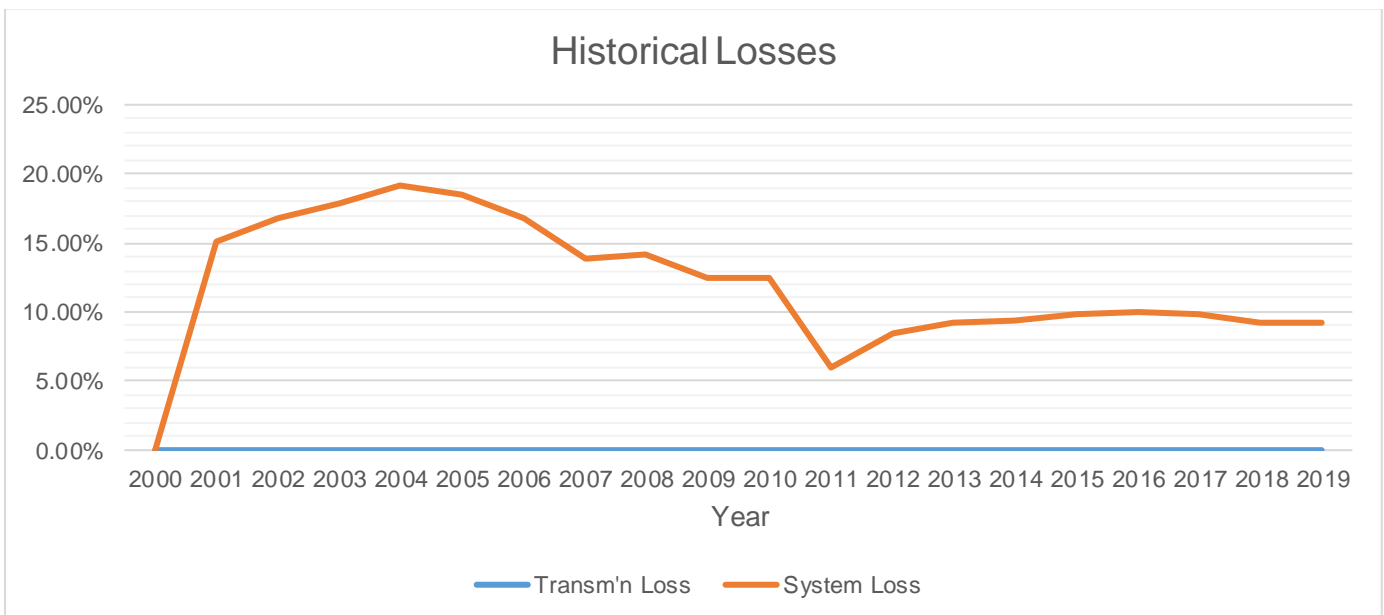
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2001	0.00	3,745	0	3,745	3,182	564	#DIV/0!	0.00%	0.00%	15.05%
2002	0.00	4,274	0	4,274	3,556	718	#DIV/0!	0.00%	0.00%	16.81%
2003	0.00	4,905	0	4,905	4,028	877	#DIV/0!	0.00%	0.00%	17.87%
2004	0.00	5,224	0	5,224	4,223	1,001	#DIV/0!	0.00%	0.00%	19.16%
2005	0.00	6,166	0	6,166	5,023	1,143	#DIV/0!	0.00%	0.00%	18.54%
2006	1.42	5,727	0	5,727	4,769	958	46%	0.00%	0.00%	16.73%
2007	1.37	5,558	0	5,558	4,787	770	46%	0.00%	0.00%	13.86%
2008	1.66	6,704	0	6,704	5,751	953	46%	0.00%	0.00%	14.21%
2009	1.78	7,044	0	7,044	6,164	881	45%	0.00%	0.00%	12.50%
2010	1.98	8,276	0	8,276	7,240	1,036	48%	0.00%	0.00%	12.52%
2011	2.11	8,908	0	8,908	8,372	537	48%	0.00%	0.00%	6.02%
2012	2.26	10,291	0	10,291	9,417	874	52%	0.00%	0.00%	8.49%
2013	2.44	11,087	0	11,087	10,059	1,028	52%	0.00%	0.00%	9.27%
2014	2.76	12,727	0	12,727	11,527	1,199	53%	0.00%	0.00%	9.42%
2015	3.05	14,806	0	14,806	13,352	1,453	55%	0.00%	0.00%	9.82%
2016	4.80	17,515	0	17,515	15,760	1,755	42%	0.00%	0.00%	10.02%
2017	4.03	19,333	0	19,333	17,433	1,900	55%	0.00%	0.00%	9.83%
2018	4.17	21,623	0	21,623	19,627	1,996	59%	0.00%	0.00%	9.23%
2019	4.37	23,702	0	23,702	21,533	2,169	62%	0.00%	0.00%	9.15%

Peak Demand increased from 1.42 MW in 2006 to 4.37 MW in 2019 at a rate of 10.08% due to increase in the number of connections. MWh Offtake increased from 3,745 MWh in 2001 to 23,702 MWh in 2019 at a rate of 11.04% due to the same reason. Within the same period, Load Factor ranged from 42% to 62%.

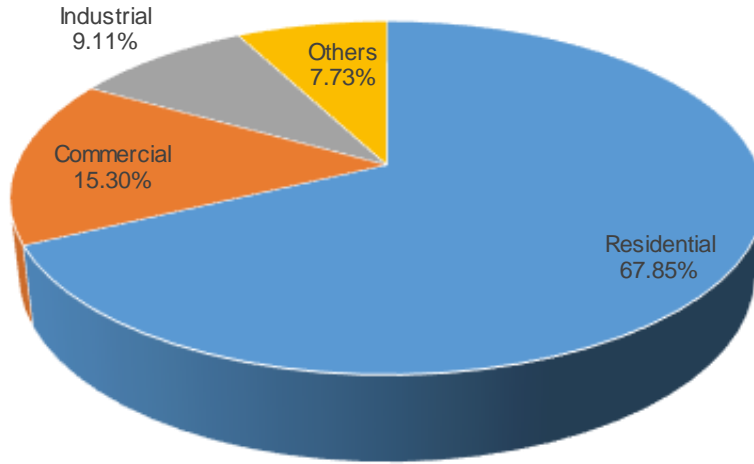


MWh Output increased from year 2001 to year 2019 at a rate of 11.40%, while MWh System Loss increased at a rate of 10.48% within the same period.



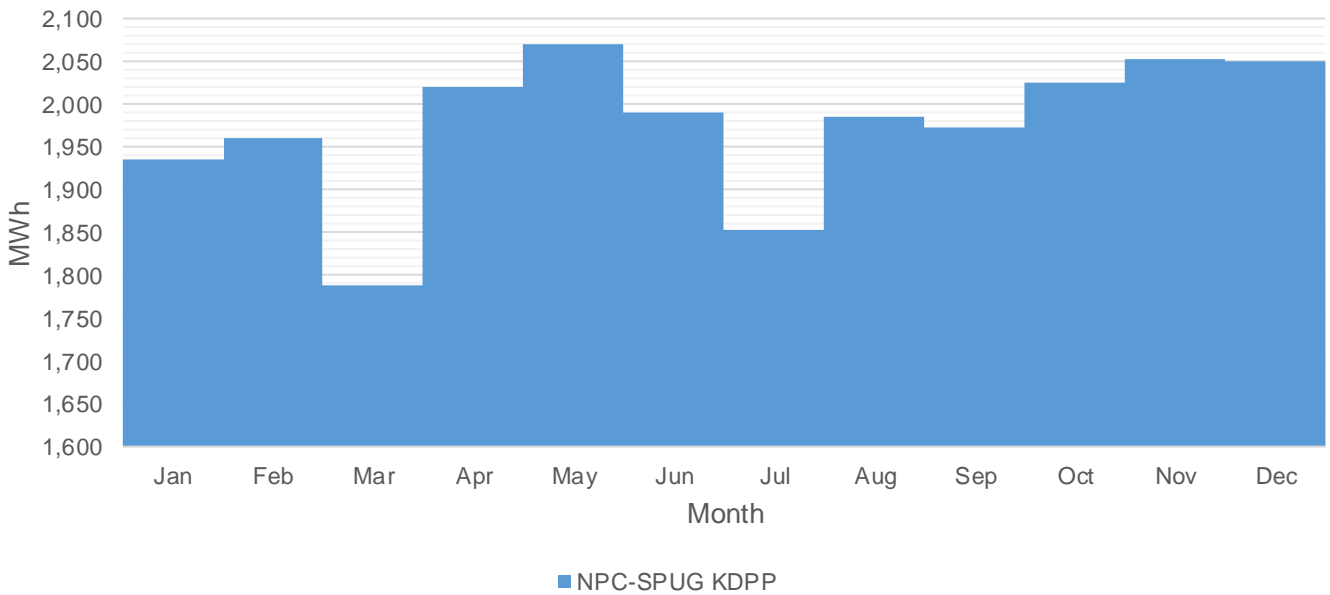
Historically, System Loss ranged from 6.02% to 19.16%. System Loss peaked at 19.16% on year 2004 because of high non-technical losses.

Previous Year's Shares of Energy Sales



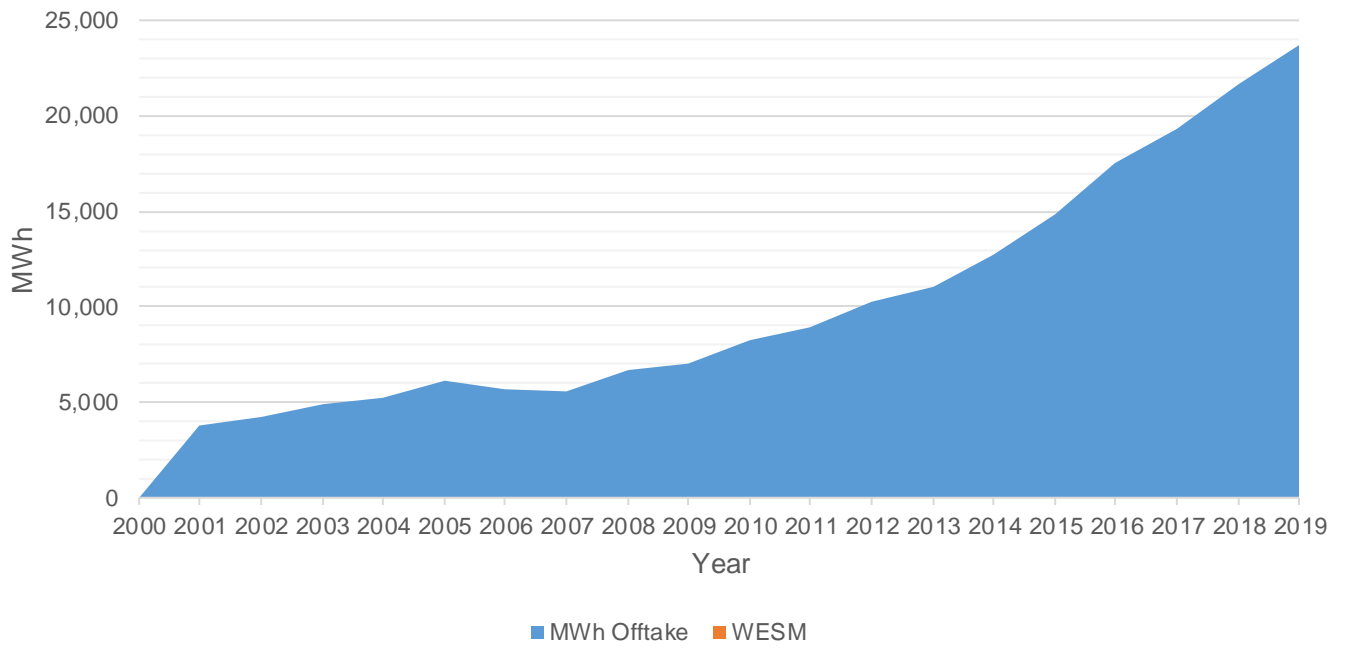
Residential customers account for the bulk of energy sales at 67.85% due to the high number of connections. In contrast, combined number of Street Lights and Public Building customers accounted for only 7.73% of energy sales due to the low number of connections.

MWh Offtake for Last Historical Year



For NPC-SPUG, the total Offtake for the last historical year is lower than the quantity stipulated in the PSA.

WESM Share Over Time



No WESM in Mindanao.

Previous Year's Load Profile

No available data for Load Profile.

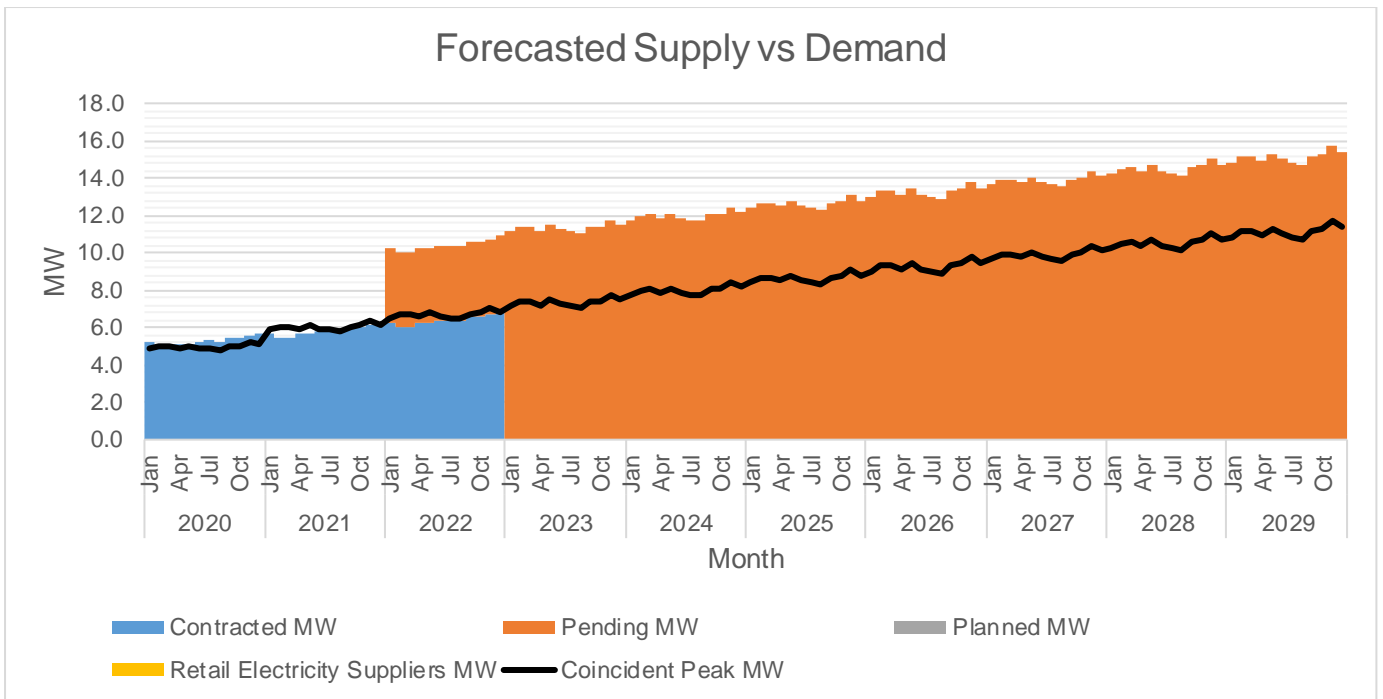
Forecasted Consumption Data

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2020	Jan	4.84	5.18	0.00	0.000	107%	107%	0.34
	Feb	4.97	4.96	0.00	0.000	100%	100%	-0.01
	Mar	4.98	4.96	0.00	0.000	100%	100%	-0.02
	Apr	4.88	5.13	0.00	0.000	105%	105%	0.24
	May	5.05	5.13	0.00	0.000	102%	102%	0.08
	Jun	4.90	5.24	0.00	0.000	107%	107%	0.34
	Jul	4.83	5.28	0.00	0.000	109%	109%	0.45
	Aug	4.78	5.25	0.00	0.000	110%	110%	0.47
	Sep	4.99	5.48	0.00	0.000	110%	110%	0.49
	Oct	5.03	5.42	0.00	0.000	108%	108%	0.39
	Nov	5.22	5.53	0.00	0.000	106%	106%	0.31
	Dec	5.06	5.71	0.00	0.000	113%	113%	0.65
2021	Jan	5.87	5.72	0.00	0.000	97%	97%	-0.15
	Feb	6.03	5.48	0.00	0.000	91%	91%	-0.54
	Mar	6.05	5.48	0.00	0.000	91%	91%	-0.57
	Apr	5.93	5.67	0.00	0.000	96%	96%	-0.26
	May	6.13	5.67	0.00	0.000	92%	92%	-0.46
	Jun	5.95	5.79	0.00	0.000	97%	97%	-0.16
	Jul	5.86	5.83	0.00	0.000	100%	100%	-0.03
	Aug	5.80	5.80	0.00	0.000	100%	100%	0.00
	Sep	6.05	6.05	0.00	0.000	100%	100%	0.00
	Oct	6.11	5.99	0.00	0.000	98%	98%	-0.11
	Nov	6.34	6.11	0.00	0.000	97%	97%	-0.22
	Dec	6.14	6.31	0.00	0.000	103%	103%	0.16
2022	Jan	6.51	6.27	4.00	0.000	96%	158%	3.76
	Feb	6.69	6.01	4.00	0.000	90%	150%	3.32
	Mar	6.71	6.01	4.00	0.000	90%	149%	3.30
	Apr	6.57	6.21	4.00	0.000	94%	155%	3.64
	May	6.80	6.21	4.00	0.000	91%	150%	3.41
	Jun	6.60	6.35	4.00	0.000	96%	157%	3.75
	Jul	6.50	6.40	4.00	0.000	98%	160%	3.90
	Aug	6.43	6.36	4.00	0.000	99%	161%	3.93
	Sep	6.71	6.63	4.00	0.000	99%	158%	3.92
	Oct	6.77	6.57	4.00	0.000	97%	156%	3.79
	Nov	7.03	6.70	4.00	0.000	95%	152%	3.67
	Dec	6.81	6.91	4.00	0.000	101%	160%	4.10
2023	Jan	7.15	0.00	11.15	0.000	0%	156%	4.00
	Feb	7.34	0.00	11.34	0.000	0%	154%	4.00
	Mar	7.37	0.00	11.37	0.000	0%	154%	4.00
	Apr	7.22	0.00	11.22	0.000	0%	155%	4.00
	May	7.46	0.00	11.46	0.000	0%	154%	4.00
	Jun	7.24	0.00	11.24	0.000	0%	155%	4.00
	Jul	7.14	0.00	11.14	0.000	0%	156%	4.00
	Aug	7.06	0.00	11.06	0.000	0%	157%	4.00

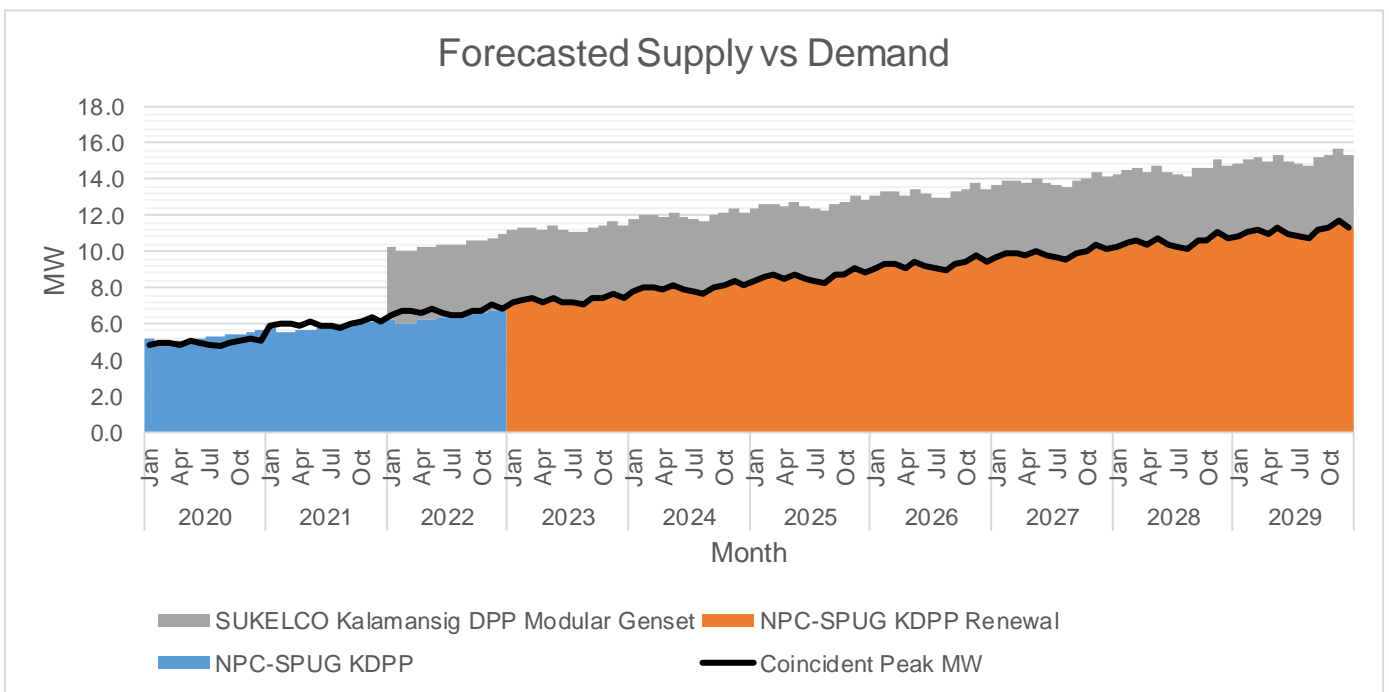
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Sep	7.37	0.00	11.37	0.000	0%	154%	4.00
	Oct	7.44	0.00	11.44	0.000	0%	154%	4.00
	Nov	7.72	0.00	11.72	0.000	0%	152%	4.00
	Dec	7.48	0.00	11.48	0.000	0%	153%	4.00
2024	Jan	7.79	0.00	11.79	0.000	0%	151%	4.00
	Feb	7.99	0.00	11.99	0.000	0%	150%	4.00
	Mar	8.02	0.00	12.02	0.000	0%	150%	4.00
	Apr	7.86	0.00	11.86	0.000	0%	151%	4.00
	May	8.13	0.00	12.13	0.000	0%	149%	4.00
	Jun	7.89	0.00	11.89	0.000	0%	151%	4.00
	Jul	7.77	0.00	11.77	0.000	0%	151%	4.00
	Aug	7.69	0.00	11.69	0.000	0%	152%	4.00
	Sep	8.03	0.00	12.03	0.000	0%	150%	4.00
	Oct	8.10	0.00	12.10	0.000	0%	149%	4.00
	Nov	8.40	0.00	12.40	0.000	0%	148%	4.00
	Dec	8.15	0.00	12.15	0.000	0%	149%	4.00
2025	Jan	8.42	0.00	12.42	0.000	0%	148%	4.00
	Feb	8.64	0.00	12.64	0.000	0%	146%	4.00
	Mar	8.67	0.00	12.67	0.000	0%	146%	4.00
	Apr	8.49	0.00	12.49	0.000	0%	147%	4.00
	May	8.78	0.00	12.78	0.000	0%	146%	4.00
	Jun	8.52	0.00	12.52	0.000	0%	147%	4.00
	Jul	8.40	0.00	12.40	0.000	0%	148%	4.00
	Aug	8.31	0.00	12.31	0.000	0%	148%	4.00
	Sep	8.68	0.00	12.68	0.000	0%	146%	4.00
	Oct	8.75	0.00	12.75	0.000	0%	146%	4.00
	Nov	9.08	0.00	13.08	0.000	0%	144%	4.00
	Dec	8.80	0.00	12.80	0.000	0%	145%	4.00
2026	Jan	9.04	0.00	13.04	0.000	0%	144%	4.00
	Feb	9.28	0.00	13.28	0.000	0%	143%	4.00
	Mar	9.31	0.00	13.31	0.000	0%	143%	4.00
	Apr	9.12	0.00	13.12	0.000	0%	144%	4.00
	May	9.43	0.00	13.43	0.000	0%	142%	4.00
	Jun	9.15	0.00	13.15	0.000	0%	144%	4.00
	Jul	9.02	0.00	13.02	0.000	0%	144%	4.00
	Aug	8.93	0.00	12.93	0.000	0%	145%	4.00
	Sep	9.32	0.00	13.32	0.000	0%	143%	4.00
	Oct	9.40	0.00	13.40	0.000	0%	143%	4.00
	Nov	9.75	0.00	13.75	0.000	0%	141%	4.00
	Dec	9.45	0.00	13.45	0.000	0%	142%	4.00
2027	Jan	9.65	0.00	13.65	0.000	0%	141%	4.00
	Feb	9.91	0.00	13.91	0.000	0%	140%	4.00
	Mar	9.94	0.00	13.94	0.000	0%	140%	4.00
	Apr	9.74	0.00	13.74	0.000	0%	141%	4.00
	May	10.07	0.00	14.07	0.000	0%	140%	4.00
	Jun	9.77	0.00	13.77	0.000	0%	141%	4.00

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Jul	9.63	0.00	13.63	0.000	0%	142%	4.00
	Aug	9.53	0.00	13.53	0.000	0%	142%	4.00
	Sep	9.95	0.00	13.95	0.000	0%	140%	4.00
	Oct	10.04	0.00	14.04	0.000	0%	140%	4.00
	Nov	10.42	0.00	14.42	0.000	0%	138%	4.00
	Dec	10.10	0.00	14.10	0.000	0%	140%	4.00
2028	Jan	10.26	0.00	14.26	0.000	0%	139%	4.00
	Feb	10.53	0.00	14.53	0.000	0%	138%	4.00
	Mar	10.57	0.00	14.57	0.000	0%	138%	4.00
	Apr	10.35	0.00	14.35	0.000	0%	139%	4.00
	May	10.70	0.00	14.70	0.000	0%	137%	4.00
	Jun	10.39	0.00	14.39	0.000	0%	139%	4.00
	Jul	10.24	0.00	14.24	0.000	0%	139%	4.00
	Aug	10.13	0.00	14.13	0.000	0%	139%	4.00
	Sep	10.57	0.00	14.57	0.000	0%	138%	4.00
	Oct	10.67	0.00	14.67	0.000	0%	137%	4.00
	Nov	11.07	0.00	15.07	0.000	0%	136%	4.00
	Dec	10.73	0.00	14.73	0.000	0%	137%	4.00
2029	Jan	10.85	0.00	14.85	0.000	0%	137%	4.00
	Feb	11.14	0.00	15.14	0.000	0%	136%	4.00
	Mar	11.18	0.00	15.18	0.000	0%	136%	4.00
	Apr	10.95	0.00	14.95	0.000	0%	137%	4.00
	May	11.33	0.00	15.33	0.000	0%	135%	4.00
	Jun	10.99	0.00	14.99	0.000	0%	136%	4.00
	Jul	10.83	0.00	14.83	0.000	0%	137%	4.00
	Aug	10.72	0.00	14.72	0.000	0%	137%	4.00
	Sep	11.19	0.00	15.19	0.000	0%	136%	4.00
	Oct	11.29	0.00	15.29	0.000	0%	135%	4.00
	Nov	11.71	0.00	15.71	0.000	0%	134%	4.00
	Dec	11.35	0.00	15.35	0.000	0%	135%	4.00

The Peak Demand was forecasted using regression analysis and was assumed to occur on the month of October due to high consumption of energy during this month. Monthly Peak Demand is at its lowest on the month of July due to the rainy condition of weather during this period. In general, Peak Demand is expected to grow at a rate of 9.48% annually.

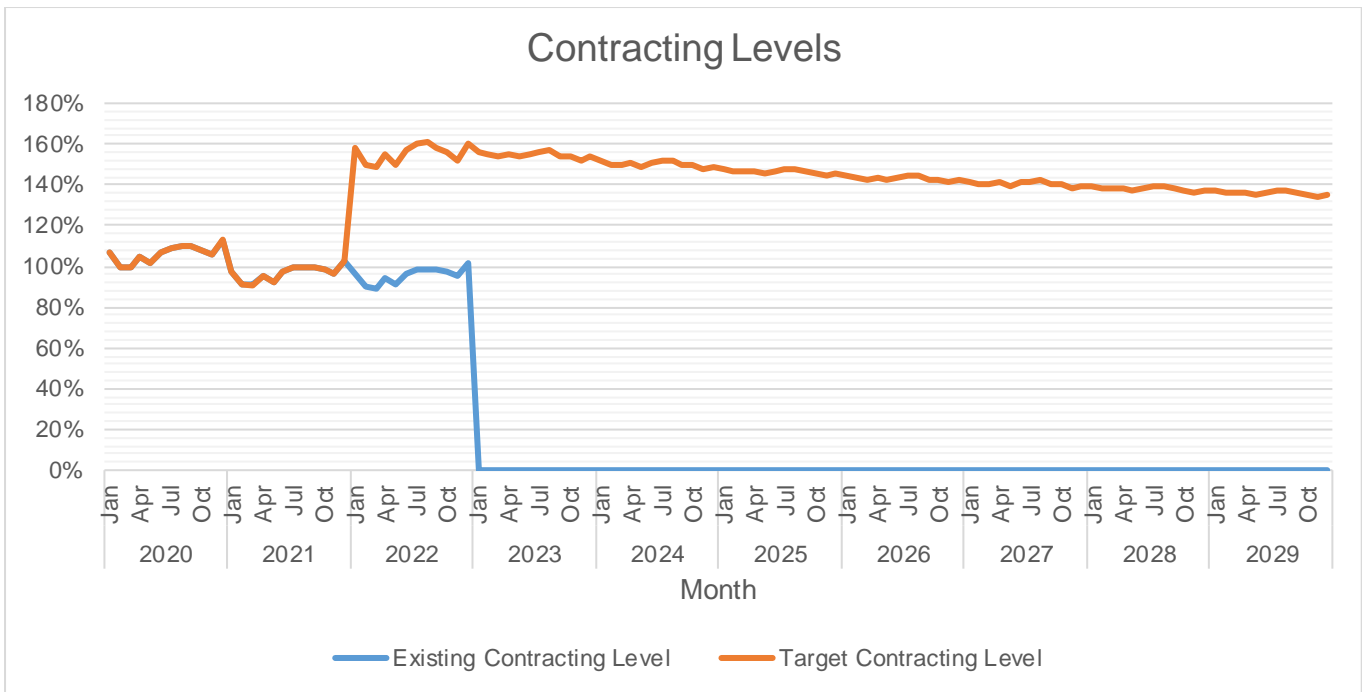


The available supply is generally above the Peak Demand. This is because of the standby genset in case NPC-SPUG will conduct a preventive maintenance of their generating units.

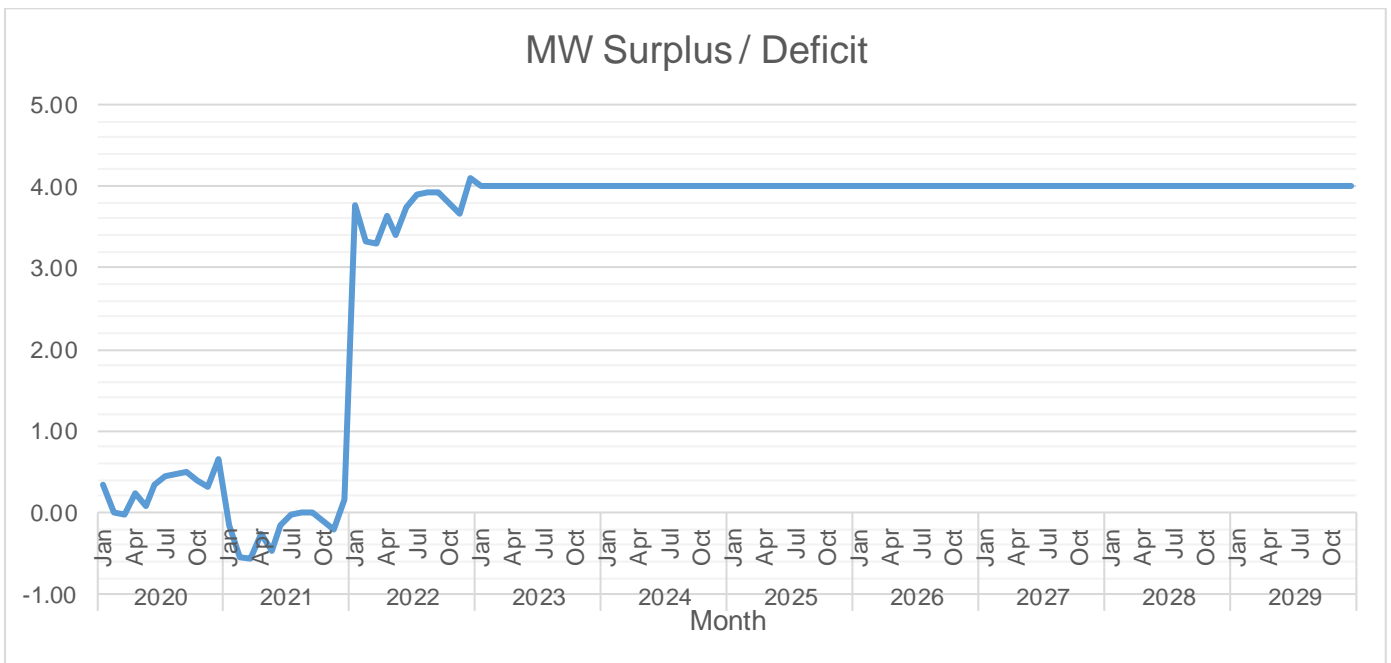


Of the available supply, the largest is 6.91 MW from NPC-SPUG.

NPC-SPUG is planned to renew after immediately after the end of contract duration.



Currently, there is no under-contacting/over-contacting. The highest target contracting level is 161% which is expected to occur on August 2022. The lowest target contracting level is 91% which is expected to occur on February 2021.



Currently, there is no under-contacting/over-contacting. The highest surplus is 4.10 MW which is expected to occur on the month of December 2022. The lowest surplus/deficit is 0.16 MW which is expected to occur on the month of December 2021.

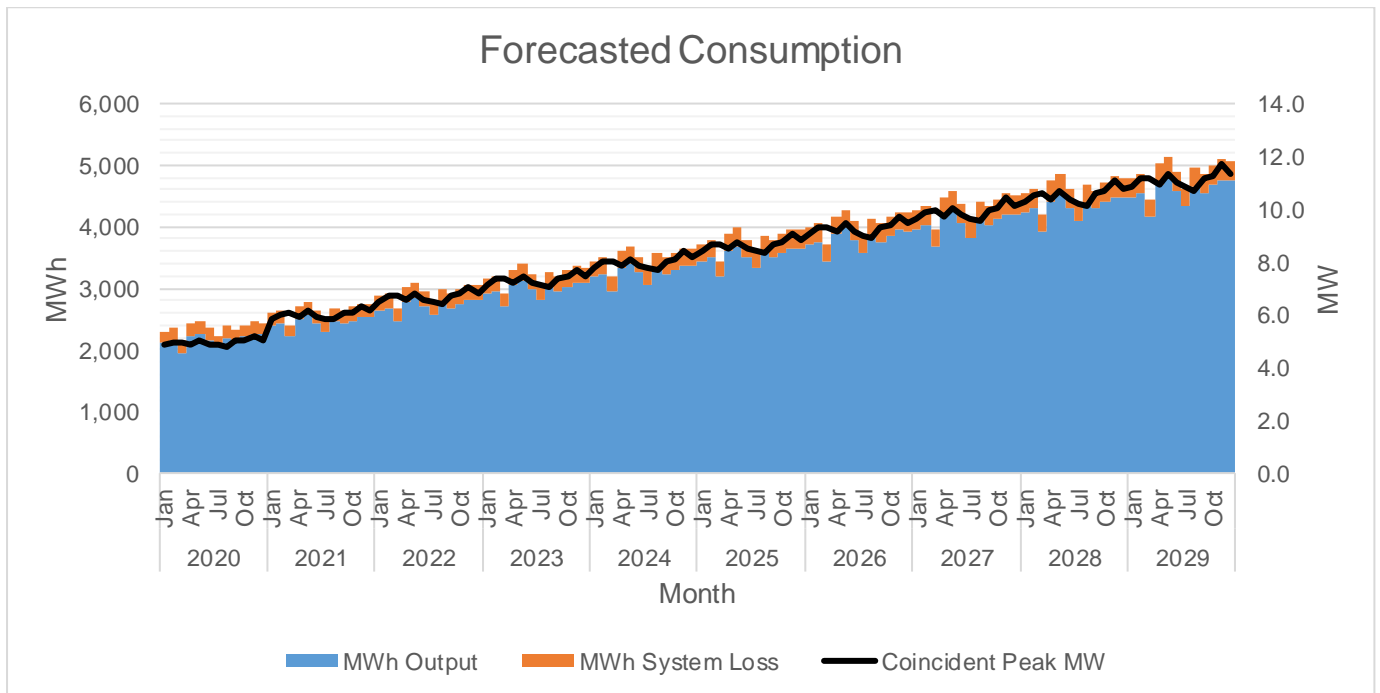
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2020	Jan	2,309	2,117	192	0.00%	8.32%
	Feb	2,345	2,150	195	0.00%	8.32%
	Mar	2,141	1,963	178	0.00%	8.32%
	Apr	2,417	2,216	201	0.00%	8.32%
	May	2,475	2,269	206	0.00%	8.32%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Jun	2,360	2,164	196	0.00%	8.32%
	Jul	2,231	2,045	186	0.00%	8.32%
	Aug	2,394	2,195	199	0.00%	8.32%
	Sep	2,343	2,148	195	0.00%	8.32%
	Oct	2,406	2,206	200	0.00%	8.32%
	Nov	2,454	2,250	204	0.00%	8.32%
	Dec	2,447	2,244	204	0.00%	8.32%
2021	Jan	2,592	2,381	210	0.00%	8.12%
	Feb	2,633	2,419	214	0.00%	8.12%
	Mar	2,403	2,208	195	0.00%	8.12%
	Apr	2,713	2,493	220	0.00%	8.12%
	May	2,778	2,553	226	0.00%	8.12%
	Jun	2,650	2,434	215	0.00%	8.12%
	Jul	2,504	2,301	203	0.00%	8.12%
	Aug	2,688	2,469	218	0.00%	8.12%
	Sep	2,630	2,416	213	0.00%	8.12%
	Oct	2,701	2,482	219	0.00%	8.12%
	Nov	2,754	2,531	224	0.00%	8.12%
	Dec	2,747	2,524	223	0.00%	8.12%
2022	Jan	2,875	2,647	228	0.00%	7.92%
	Feb	2,920	2,689	231	0.00%	7.92%
	Mar	2,666	2,455	211	0.00%	7.92%
	Apr	3,010	2,772	238	0.00%	7.92%
	May	3,082	2,838	244	0.00%	7.92%
	Jun	2,939	2,707	233	0.00%	7.92%
	Jul	2,778	2,558	220	0.00%	7.92%
	Aug	2,982	2,745	236	0.00%	7.92%
	Sep	2,917	2,686	231	0.00%	7.92%
	Oct	2,996	2,759	237	0.00%	7.92%
	Nov	3,056	2,814	242	0.00%	7.92%
	Dec	3,047	2,806	241	0.00%	7.92%
2023	Jan	3,157	2,914	244	0.00%	7.72%
	Feb	3,207	2,960	248	0.00%	7.72%
	Mar	2,928	2,702	226	0.00%	7.72%
	Apr	3,306	3,051	255	0.00%	7.72%
	May	3,385	3,124	261	0.00%	7.72%
	Jun	3,228	2,979	249	0.00%	7.72%
	Jul	3,051	2,815	235	0.00%	7.72%
	Aug	3,274	3,022	253	0.00%	7.72%
	Sep	3,204	2,956	247	0.00%	7.72%
	Oct	3,290	3,036	254	0.00%	7.72%
	Nov	3,356	3,097	259	0.00%	7.72%
	Dec	3,347	3,088	258	0.00%	7.72%
2024	Jan	3,438	3,179	258	0.00%	7.52%
	Feb	3,492	3,229	263	0.00%	7.52%
	Mar	3,188	2,948	240	0.00%	7.52%
	Apr	3,599	3,329	271	0.00%	7.52%

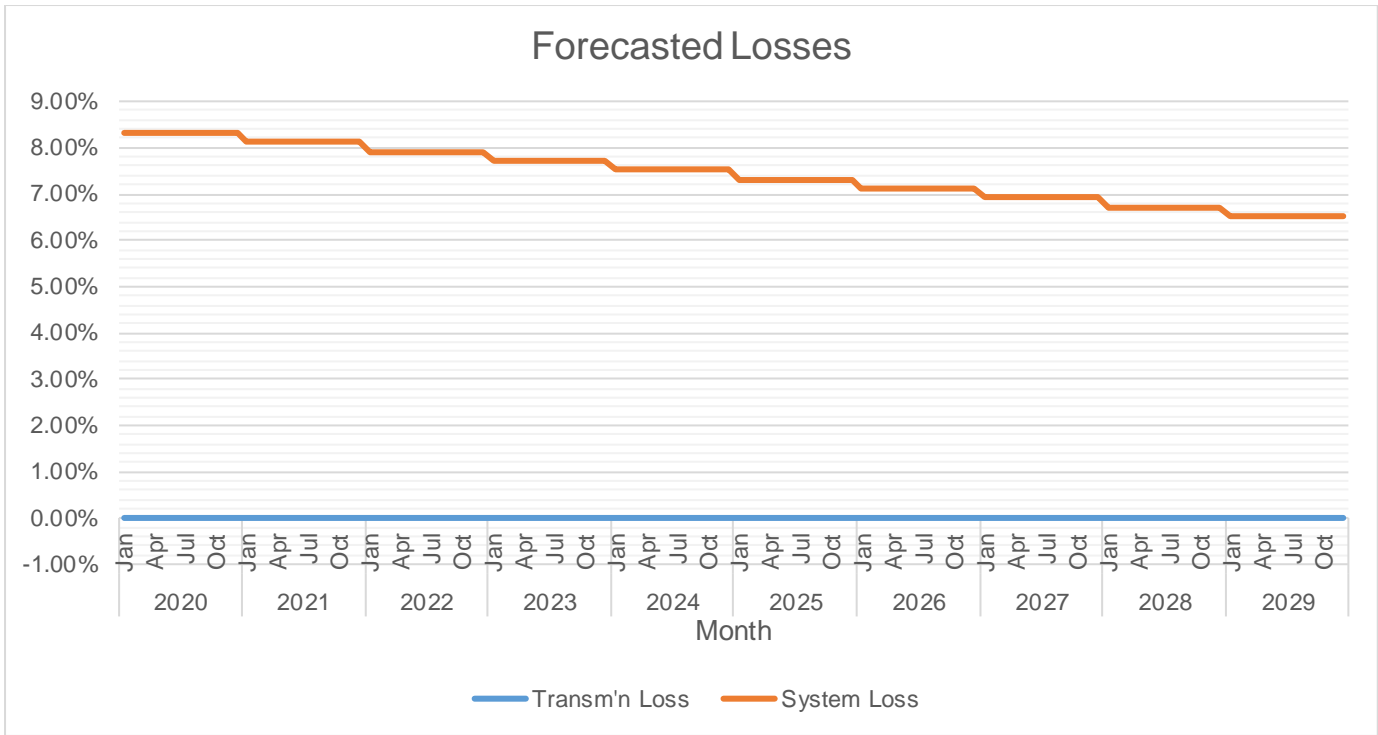
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	May	3,686	3,409	277	0.00%	7.52%
	Jun	3,515	3,250	264	0.00%	7.52%
	Jul	3,322	3,072	250	0.00%	7.52%
	Aug	3,565	3,297	268	0.00%	7.52%
	Sep	3,488	3,226	262	0.00%	7.52%
	Oct	3,583	3,313	269	0.00%	7.52%
	Nov	3,654	3,379	275	0.00%	7.52%
	Dec	3,644	3,370	274	0.00%	7.52%
2025	Jan	3,715	3,443	272	0.00%	7.32%
	Feb	3,774	3,498	276	0.00%	7.32%
	Mar	3,446	3,193	252	0.00%	7.32%
	Apr	3,890	3,605	285	0.00%	7.32%
	May	3,983	3,692	292	0.00%	7.32%
	Jun	3,798	3,520	278	0.00%	7.32%
	Jul	3,590	3,327	263	0.00%	7.32%
	Aug	3,853	3,571	282	0.00%	7.32%
	Sep	3,770	3,494	276	0.00%	7.32%
	Oct	3,872	3,589	283	0.00%	7.32%
	Nov	3,949	3,660	289	0.00%	7.32%
	Dec	3,938	3,650	288	0.00%	7.32%
2026	Jan	3,990	3,706	284	0.00%	7.12%
	Feb	4,053	3,764	288	0.00%	7.12%
	Mar	3,700	3,437	263	0.00%	7.12%
	Apr	4,177	3,880	297	0.00%	7.12%
	May	4,278	3,973	304	0.00%	7.12%
	Jun	4,079	3,789	290	0.00%	7.12%
	Jul	3,855	3,581	274	0.00%	7.12%
	Aug	4,138	3,843	295	0.00%	7.12%
	Sep	4,048	3,760	288	0.00%	7.12%
	Oct	4,158	3,862	296	0.00%	7.12%
	Nov	4,240	3,938	302	0.00%	7.12%
	Dec	4,229	3,928	301	0.00%	7.12%
2027	Jan	4,261	3,966	295	0.00%	6.92%
	Feb	4,328	4,029	299	0.00%	6.92%
	Mar	3,951	3,678	273	0.00%	6.92%
	Apr	4,461	4,152	309	0.00%	6.92%
	May	4,568	4,252	316	0.00%	6.92%
	Jun	4,356	4,055	301	0.00%	6.92%
	Jul	4,117	3,832	285	0.00%	6.92%
	Aug	4,419	4,113	306	0.00%	6.92%
	Sep	4,323	4,024	299	0.00%	6.92%
	Oct	4,440	4,133	307	0.00%	6.92%
	Nov	4,528	4,215	313	0.00%	6.92%
	Dec	4,516	4,204	312	0.00%	6.92%
2028	Jan	4,528	4,224	304	0.00%	6.72%
	Feb	4,599	4,290	309	0.00%	6.72%
	Mar	4,199	3,917	282	0.00%	6.72%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Apr	4,741	4,422	318	0.00%	6.72%
	May	4,854	4,528	326	0.00%	6.72%
	Jun	4,629	4,318	311	0.00%	6.72%
	Jul	4,375	4,081	294	0.00%	6.72%
	Aug	4,696	4,380	315	0.00%	6.72%
	Sep	4,594	4,286	309	0.00%	6.72%
	Oct	4,719	4,402	317	0.00%	6.72%
	Nov	4,812	4,489	323	0.00%	6.72%
	Dec	4,799	4,477	322	0.00%	6.72%
2029	Jan	4,791	4,479	312	0.00%	6.52%
	Feb	4,867	4,549	317	0.00%	6.52%
	Mar	4,443	4,154	290	0.00%	6.52%
	Apr	5,016	4,689	327	0.00%	6.52%
	May	5,137	4,802	335	0.00%	6.52%
	Jun	4,898	4,579	319	0.00%	6.52%
	Jul	4,629	4,328	302	0.00%	6.52%
	Aug	4,969	4,645	324	0.00%	6.52%
	Sep	4,861	4,545	317	0.00%	6.52%
	Oct	4,993	4,667	325	0.00%	6.52%
	Nov	5,092	4,760	332	0.00%	6.52%
	Dec	5,078	4,747	331	0.00%	6.52%

MWh Offtake was forecasted using regression analysis. The assumed load factor is 57.28%.



MWh Output was expected to grow at a rate of 8.70% annually.



System Loss is expected to range from 6.52% to 8.32%.

Power Supply

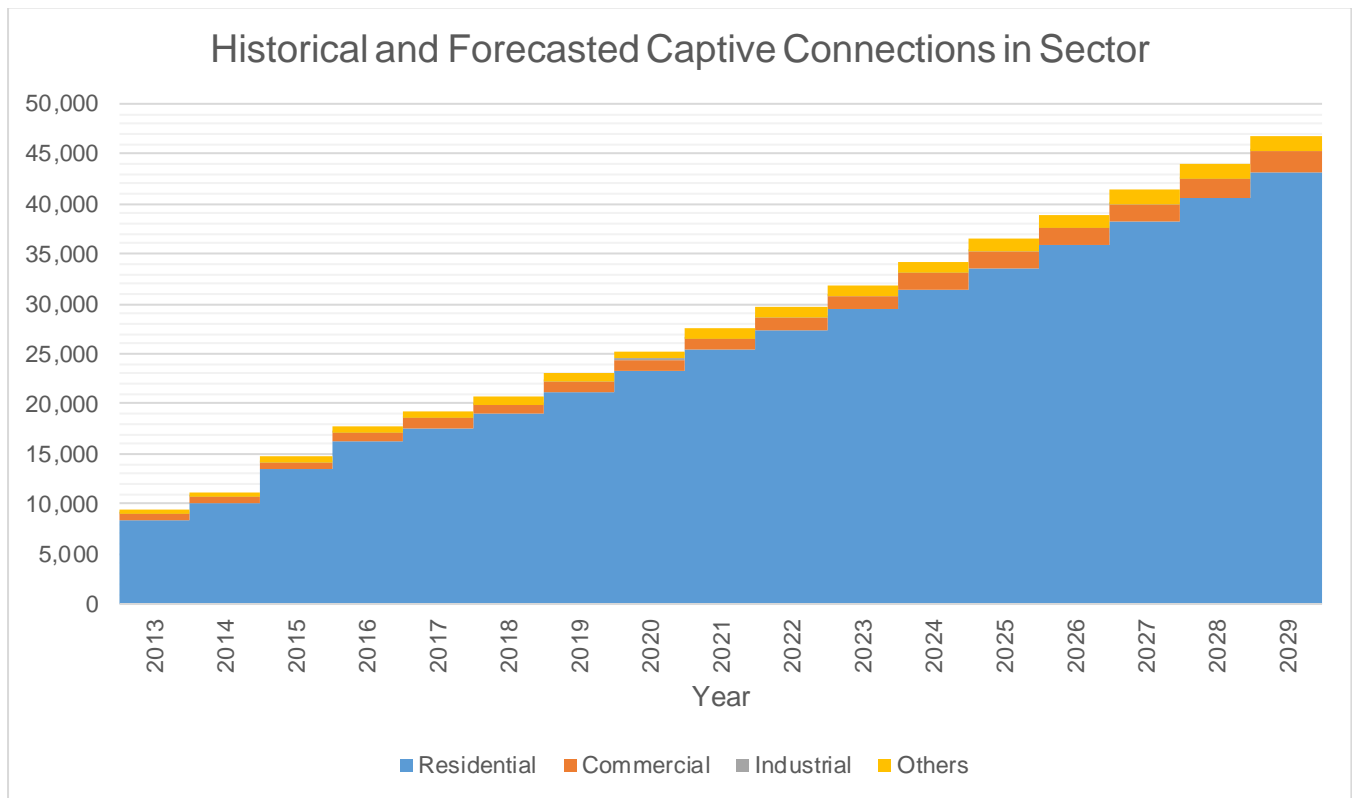
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
NPC-SPUG KDPP	Base	National Power Corporation	4.96	28,322	12/26/2017	12/25/2022

The PSA with NPC-SPUG will serve as a load following power plant on the areas of Lebak and Kalamansig, Sultan Kudarat. The actual billed overall monthly charge under the PSA ranged from 5.13 P/kWh to 5.22 P/KWh in the past year. The said PSA will be renewed depending on the completion of the Tacurong-Kalamansig 69kV subtransmission line project by the NGCP. The lowest contracted Demand and Energy is 4.96 MW and 28,322 MWh, respectively.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
SUKELCO Kalamansig DPP Modular Genset	Peaking	DU-owned	4.00	2,091		
NPC-SPUG KDPP Renewal	Base	National Power Corporation	7.06	38,733	12/26/2022	12/25/2029

The SUKELCO Kalamansig DPP Modular Genset will serve as back-up/standby generators in case of preventive maintenance or deficiency on NPC-SPUG's generator sets. The PSA with NPC-SPUG will be renew with the lowest demand and energy of 7.06 MW and 38,733 MWh, respectively.

Captive Customer Connections



The number of Residential connections is expected to grow at a rate of 7.38% annually. Said customer class is expected to account for 92.04% of the total consumption.