

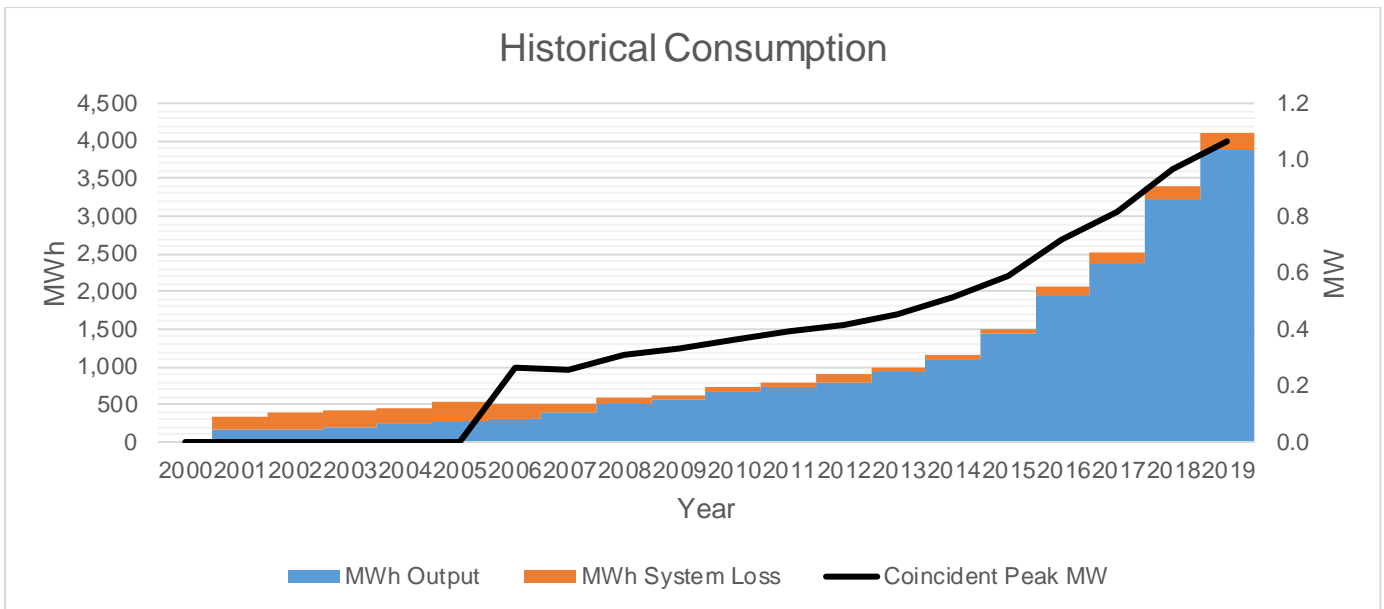
Power Supply Procurement Plan 2020

**Sultan Kudarat Electric Cooperative, Inc. (SUKELCO)
SIIG (Sen. Ninoy Aquino)**

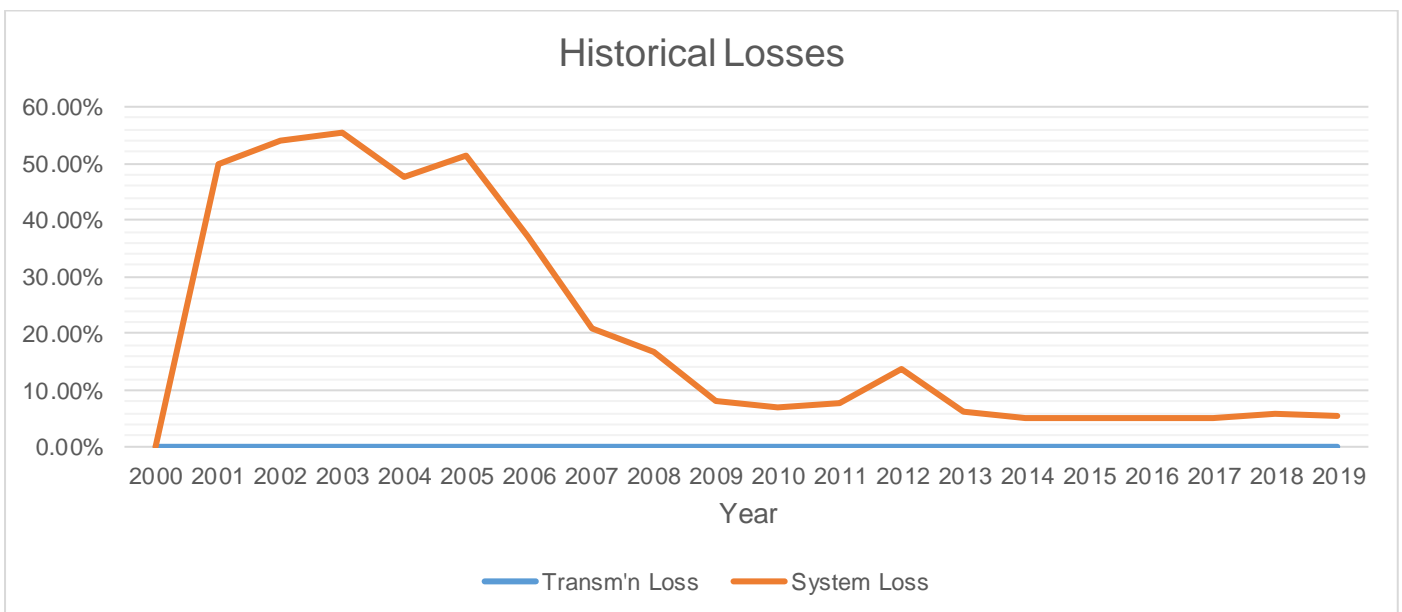
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2001	0.00	332	0	332	166	166	#DIV/0!	0.00%	0.00%	49.87%
2002	0.00	379	0	379	174	205	#DIV/0!	0.00%	0.00%	54.17%
2003	0.00	435	0	435	194	241	#DIV/0!	0.00%	0.00%	55.43%
2004	0.00	463	0	463	243	220	#DIV/0!	0.00%	0.00%	47.49%
2005	0.00	546	0	546	265	282	#DIV/0!	0.00%	0.00%	51.53%
2006	0.26	508	0	508	319	188	22%	0.00%	0.00%	37.12%
2007	0.25	493	0	493	390	102	22%	0.00%	0.00%	20.79%
2008	0.31	594	0	594	494	100	22%	0.00%	0.00%	16.86%
2009	0.33	624	0	624	575	50	22%	0.00%	0.00%	7.96%
2010	0.37	733	0	733	682	51	23%	0.00%	0.00%	6.96%
2011	0.39	789	0	789	727	62	23%	0.00%	0.00%	7.87%
2012	0.42	912	0	912	787	125	25%	0.00%	0.00%	13.69%
2013	0.45	983	0	983	923	59	25%	0.00%	0.00%	6.02%
2014	0.51	1,152	0	1,152	1,092	60	26%	0.00%	0.00%	5.18%
2015	0.59	1,503	0	1,503	1,429	74	29%	0.00%	0.00%	4.95%
2016	0.71	2,053	0	2,053	1,948	104	33%	0.00%	0.00%	5.08%
2017	0.82	2,511	0	2,511	2,381	130	35%	0.00%	0.00%	5.16%
2018	0.97	3,408	0	3,408	3,214	194	40%	0.00%	0.00%	5.70%
2019	1.07	4,102	0	4,102	3,872	230	44%	0.00%	0.00%	5.61%

Peak Demand increased from 0.26 MW in 2006 to 1.07 MW in 2019 at a rate of 11.59% due to increase in the number of connections. MWh Offtake increased from 332 MWh in 2001 to 4,102 MWh in 2019 at a rate of 15.56% due to the same reason. Within the same period, Load Factor ranged from 22% to 44%.

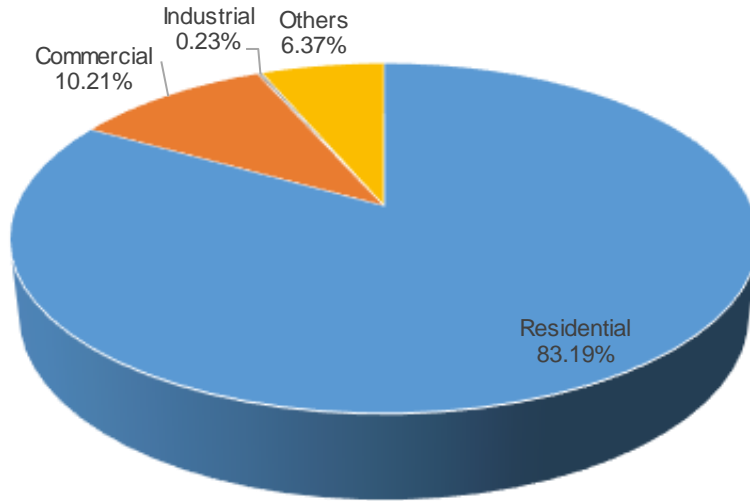


MWh Output increased from year 2001 to year 2020 at a rate of 19.45%, while MWh System Loss increased at a rate of 8.93% within the same period.



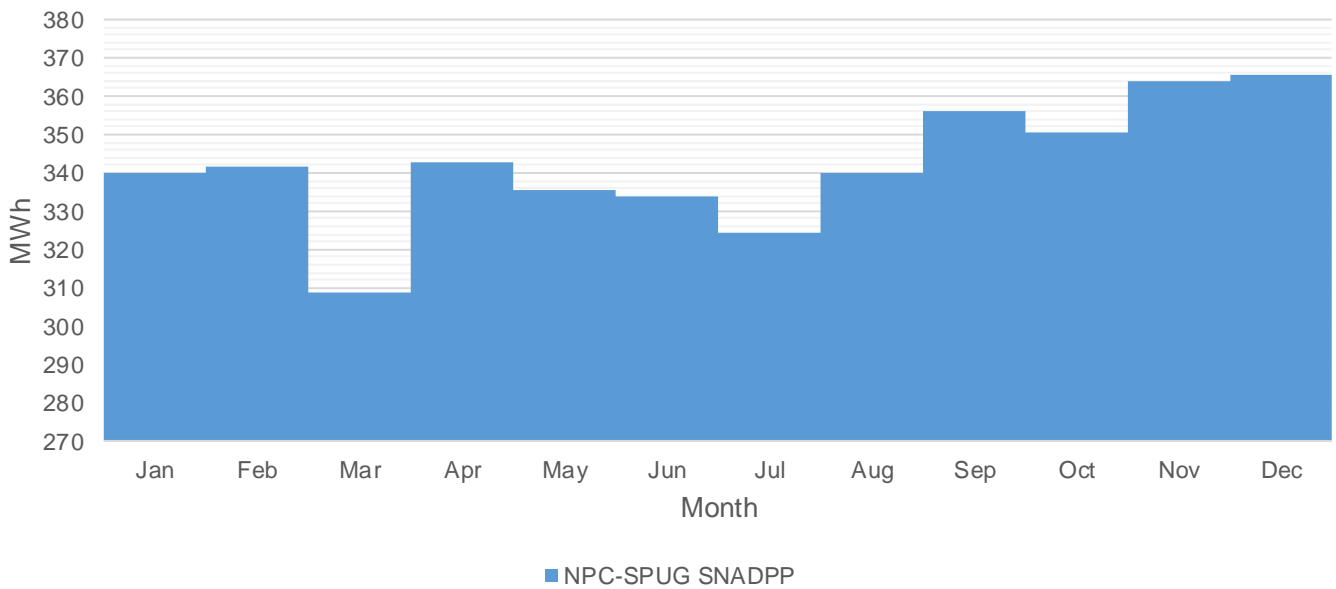
Historically, System Loss ranged from 4.95% to 55.43%. System Loss peaked at 55.43% on year 2003 because of high non-technical losses.

Previous Year's Shares of Energy Sales



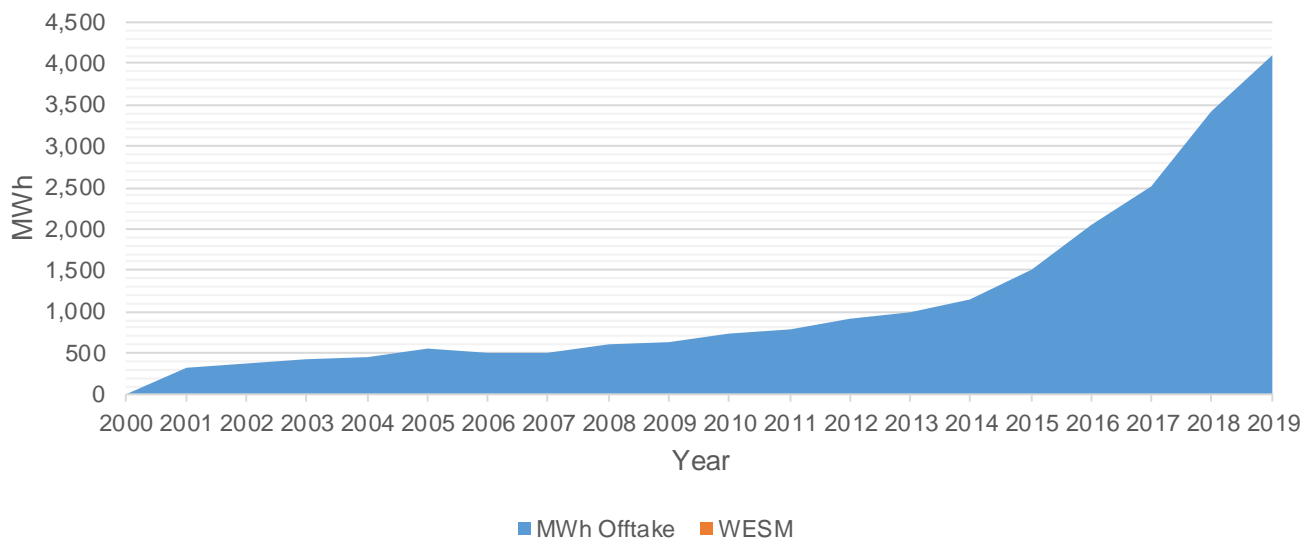
Residential customers account for the bulk of energy sales at 83.19% due to the high number of connections. In contrast, Industrial Building customers accounted for only 0.23% of energy sales due to no industrial customers in the area.

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.

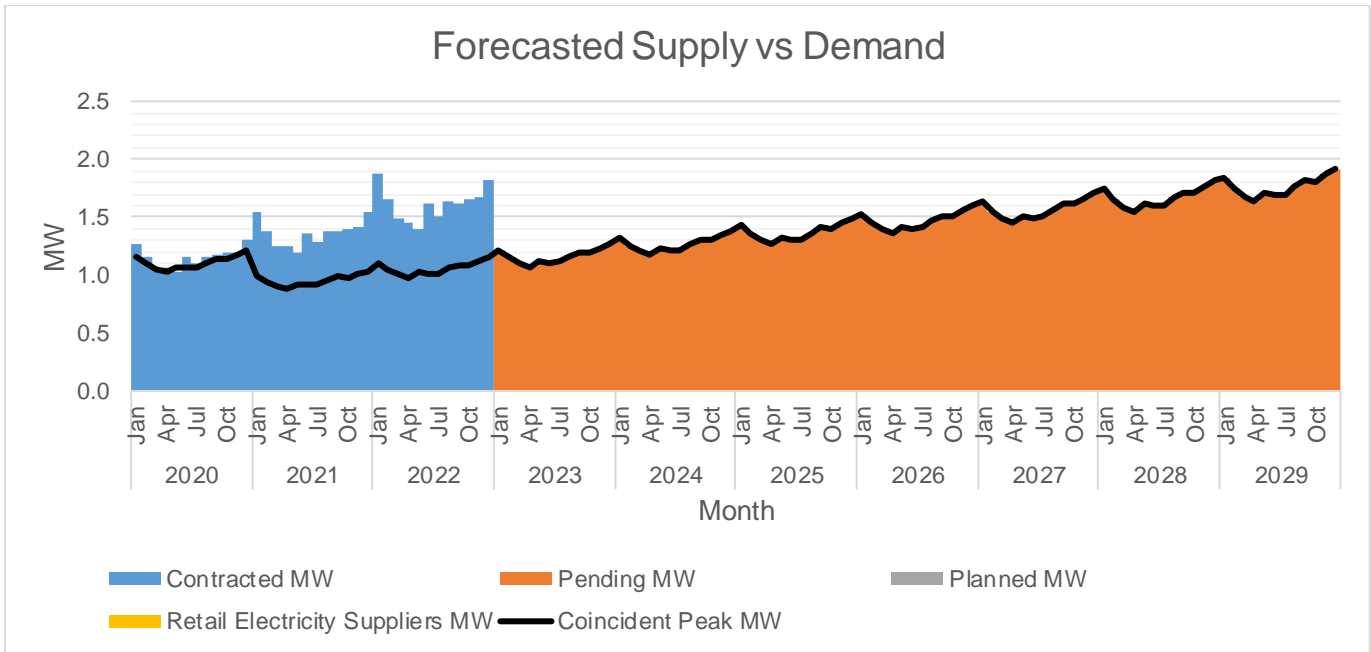
Forecasted Consumption Data

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2020	Jan	1.16	1.27	0.00	0.000	110%	110%	0.12
	Feb	1.09	1.16	0.00	0.000	106%	106%	0.06
	Mar	1.05	1.07	0.00	0.000	101%	101%	0.01
	Apr	1.02	1.06	0.00	0.000	104%	104%	0.04
	May	1.07	1.03	0.00	0.000	96%	96%	-0.04
	Jun	1.06	1.16	0.00	0.000	109%	109%	0.10
	Jul	1.06	1.11	0.00	0.000	104%	104%	0.05
	Aug	1.11	1.16	0.00	0.000	105%	105%	0.06
	Sep	1.14	1.17	0.00	0.000	103%	103%	0.03
	Oct	1.14	1.19	0.00	0.000	104%	104%	0.05
	Nov	1.17	1.20	0.00	0.000	102%	102%	0.02
	Dec	1.20	1.31	0.00	0.000	109%	109%	0.10
2021	Jan	1.00	1.55	0.00	0.000	155%	155%	0.55
	Feb	0.94	1.38	0.00	0.000	147%	147%	0.44
	Mar	0.91	1.26	0.00	0.000	138%	138%	0.35
	Apr	0.88	1.24	0.00	0.000	141%	141%	0.36
	May	0.92	1.20	0.00	0.000	130%	130%	0.28
	Jun	0.91	1.36	0.00	0.000	150%	150%	0.45
	Jul	0.91	1.29	0.00	0.000	142%	142%	0.38
	Aug	0.95	1.38	0.00	0.000	145%	145%	0.43
	Sep	0.98	1.38	0.00	0.000	140%	140%	0.39
	Oct	0.98	1.40	0.00	0.000	143%	143%	0.42
	Nov	1.01	1.41	0.00	0.000	140%	140%	0.40
	Dec	1.04	1.55	0.00	0.000	149%	149%	0.51
2022	Jan	1.10	1.88	0.00	0.000	170%	170%	0.78
	Feb	1.05	1.66	0.00	0.000	159%	159%	0.61
	Mar	1.01	1.48	0.00	0.000	147%	147%	0.47
	Apr	0.98	1.46	0.00	0.000	149%	149%	0.48
	May	1.02	1.40	0.00	0.000	137%	137%	0.38
	Jun	1.01	1.61	0.00	0.000	159%	159%	0.60
	Jul	1.01	1.51	0.00	0.000	149%	149%	0.50
	Aug	1.06	1.64	0.00	0.000	155%	155%	0.58
	Sep	1.09	1.62	0.00	0.000	148%	148%	0.52
	Oct	1.09	1.66	0.00	0.000	153%	153%	0.57
	Nov	1.12	1.67	0.00	0.000	149%	149%	0.55
	Dec	1.15	1.83	0.00	0.000	159%	159%	0.68
2023	Jan	1.21	0.00	1.21	0.000	0%	100%	0.00
	Feb	1.15	0.00	1.15	0.000	0%	100%	0.00
	Mar	1.11	0.00	1.11	0.000	0%	100%	0.00
	Apr	1.07	0.00	1.07	0.000	0%	100%	0.00
	May	1.12	0.00	1.12	0.000	0%	100%	0.00
	Jun	1.11	0.00	1.11	0.000	0%	100%	0.00
	Jul	1.11	0.00	1.11	0.000	0%	100%	0.00
	Aug	1.16	0.00	1.16	0.000	0%	100%	0.00

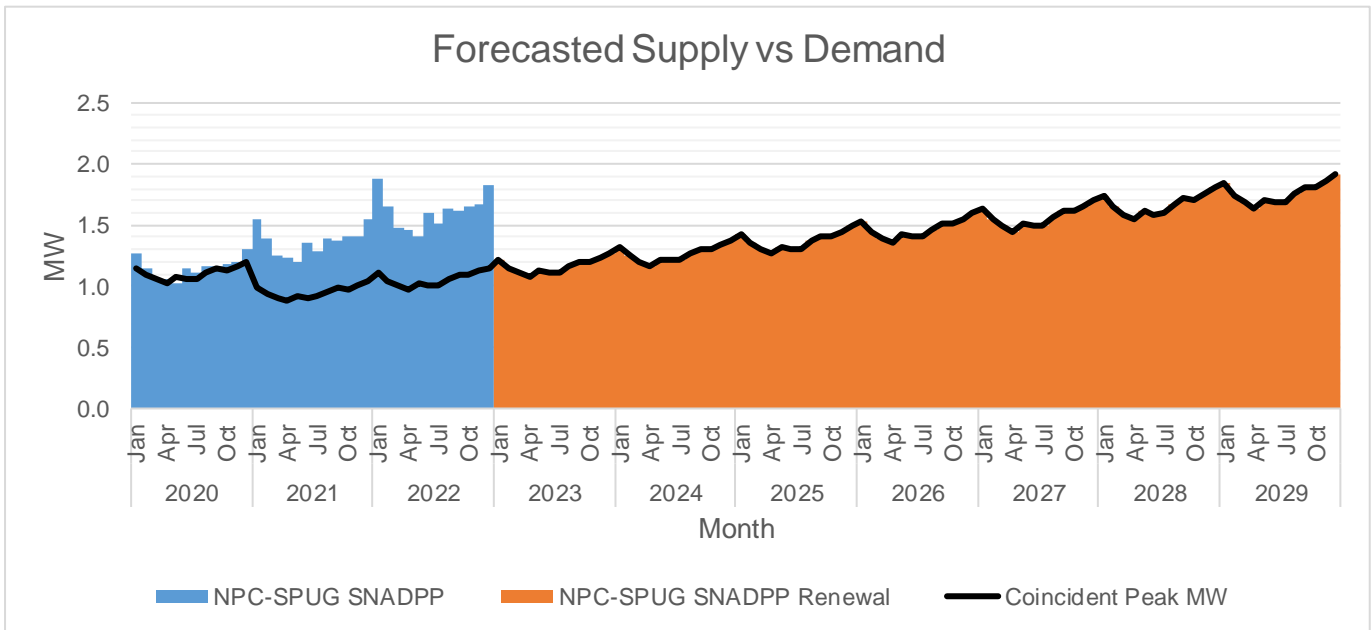
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Sep	1.20	0.00	1.20	0.000	0%	100%	0.00
	Oct	1.19	0.00	1.19	0.000	0%	100%	0.00
	Nov	1.23	0.00	1.23	0.000	0%	100%	0.00
	Dec	1.26	0.00	1.26	0.000	0%	100%	0.00
2024	Jan	1.32	0.00	1.32	0.000	0%	100%	0.00
	Feb	1.25	0.00	1.25	0.000	0%	100%	0.00
	Mar	1.21	0.00	1.21	0.000	0%	100%	0.00
	Apr	1.17	0.00	1.17	0.000	0%	100%	0.00
	May	1.22	0.00	1.22	0.000	0%	100%	0.00
	Jun	1.21	0.00	1.21	0.000	0%	100%	0.00
	Jul	1.21	0.00	1.21	0.000	0%	100%	0.00
	Aug	1.27	0.00	1.27	0.000	0%	100%	0.00
	Sep	1.30	0.00	1.30	0.000	0%	100%	0.00
	Oct	1.30	0.00	1.30	0.000	0%	100%	0.00
	Nov	1.34	0.00	1.34	0.000	0%	100%	0.00
	Dec	1.38	0.00	1.38	0.000	0%	100%	0.00
2025	Jan	1.43	0.00	1.43	0.000	0%	100%	0.00
	Feb	1.35	0.00	1.35	0.000	0%	100%	0.00
	Mar	1.30	0.00	1.30	0.000	0%	100%	0.00
	Apr	1.26	0.00	1.26	0.000	0%	100%	0.00
	May	1.32	0.00	1.32	0.000	0%	100%	0.00
	Jun	1.31	0.00	1.31	0.000	0%	100%	0.00
	Jul	1.31	0.00	1.31	0.000	0%	100%	0.00
	Aug	1.37	0.00	1.37	0.000	0%	100%	0.00
	Sep	1.41	0.00	1.41	0.000	0%	100%	0.00
	Oct	1.40	0.00	1.40	0.000	0%	100%	0.00
	Nov	1.45	0.00	1.45	0.000	0%	100%	0.00
	Dec	1.49	0.00	1.49	0.000	0%	100%	0.00
2026	Jan	1.53	0.00	1.53	0.000	0%	100%	0.00
	Feb	1.45	0.00	1.45	0.000	0%	100%	0.00
	Mar	1.40	0.00	1.40	0.000	0%	100%	0.00
	Apr	1.36	0.00	1.36	0.000	0%	100%	0.00
	May	1.42	0.00	1.42	0.000	0%	100%	0.00
	Jun	1.40	0.00	1.40	0.000	0%	100%	0.00
	Jul	1.41	0.00	1.41	0.000	0%	100%	0.00
	Aug	1.47	0.00	1.47	0.000	0%	100%	0.00
	Sep	1.51	0.00	1.51	0.000	0%	100%	0.00
	Oct	1.51	0.00	1.51	0.000	0%	100%	0.00
	Nov	1.56	0.00	1.56	0.000	0%	100%	0.00
	Dec	1.60	0.00	1.60	0.000	0%	100%	0.00
2027	Jan	1.64	0.00	1.64	0.000	0%	100%	0.00
	Feb	1.55	0.00	1.55	0.000	0%	100%	0.00
	Mar	1.49	0.00	1.49	0.000	0%	100%	0.00
	Apr	1.45	0.00	1.45	0.000	0%	100%	0.00
	May	1.51	0.00	1.51	0.000	0%	100%	0.00
	Jun	1.50	0.00	1.50	0.000	0%	100%	0.00

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Jul	1.50	0.00	1.50	0.000	0%	100%	0.00
	Aug	1.57	0.00	1.57	0.000	0%	100%	0.00
	Sep	1.62	0.00	1.62	0.000	0%	100%	0.00
	Oct	1.61	0.00	1.61	0.000	0%	100%	0.00
	Nov	1.66	0.00	1.66	0.000	0%	100%	0.00
	Dec	1.71	0.00	1.71	0.000	0%	100%	0.00
2028	Jan	1.74	0.00	1.74	0.000	0%	100%	0.00
	Feb	1.65	0.00	1.65	0.000	0%	100%	0.00
	Mar	1.59	0.00	1.59	0.000	0%	100%	0.00
	Apr	1.54	0.00	1.54	0.000	0%	100%	0.00
	May	1.61	0.00	1.61	0.000	0%	100%	0.00
	Jun	1.59	0.00	1.59	0.000	0%	100%	0.00
	Jul	1.60	0.00	1.60	0.000	0%	100%	0.00
	Aug	1.67	0.00	1.67	0.000	0%	100%	0.00
	Sep	1.72	0.00	1.72	0.000	0%	100%	0.00
	Oct	1.71	0.00	1.71	0.000	0%	100%	0.00
	Nov	1.76	0.00	1.76	0.000	0%	100%	0.00
	Dec	1.81	0.00	1.81	0.000	0%	100%	0.00
2029	Jan	1.84	0.00	1.84	0.000	0%	100%	0.00
	Feb	1.74	0.00	1.74	0.000	0%	100%	0.00
	Mar	1.68	0.00	1.68	0.000	0%	100%	0.00
	Apr	1.63	0.00	1.63	0.000	0%	100%	0.00
	May	1.70	0.00	1.70	0.000	0%	100%	0.00
	Jun	1.68	0.00	1.68	0.000	0%	100%	0.00
	Jul	1.69	0.00	1.69	0.000	0%	100%	0.00
	Aug	1.76	0.00	1.76	0.000	0%	100%	0.00
	Sep	1.82	0.00	1.82	0.000	0%	100%	0.00
	Oct	1.81	0.00	1.81	0.000	0%	100%	0.00
	Nov	1.87	0.00	1.87	0.000	0%	100%	0.00
	Dec	1.92	0.00	1.92	0.000	0%	100%	0.00

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 5.57% annually.



The available supply is generally above the Peak Demand.

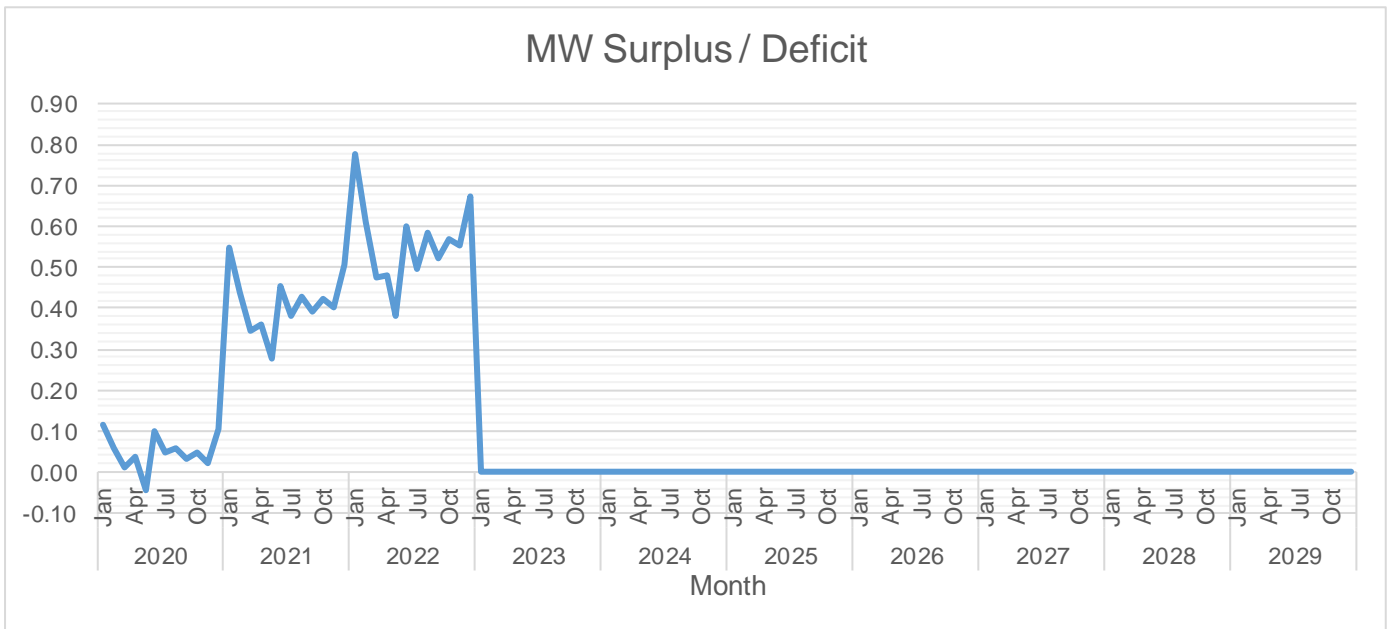


Of the available supply, the largest is 1.88 MW from NPC-SPUG.

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



Currently, there is no under-contracting/over-contracting. The highest target contracting level is 170% which is expected to occur in January 2022. The lowest target contracting level is 96% which is expected to occur in May 2020 onwards.



Currently, there is no under-contracting/over-contracting. The highest surplus is 0.78 MW which is expected to occur on the month of January 2022. The lowest surplus/deficit is 0.00 MW which is expected to occur on start of the January 2023 onwards.

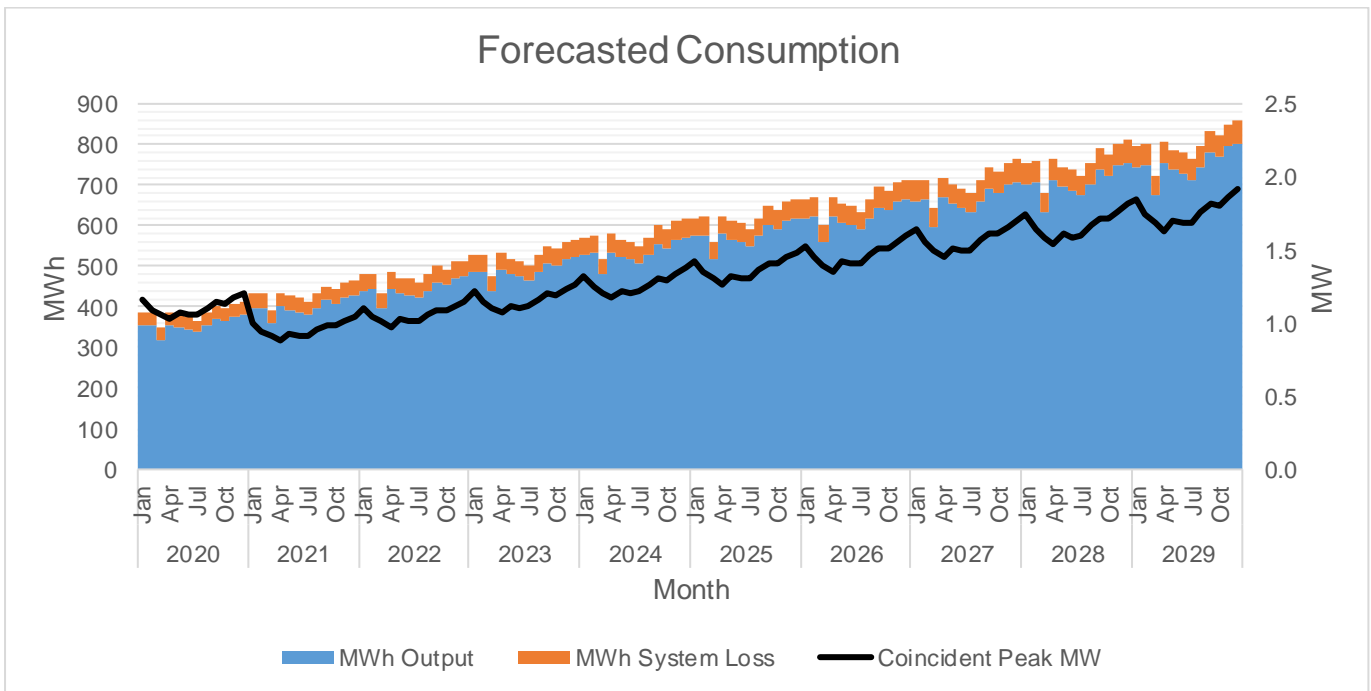
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2020	Jan	384	352	32	0.00%	8.32%
	Feb	387	355	32	0.00%	8.32%
	Mar	348	319	29	0.00%	8.32%
	Apr	389	356	32	0.00%	8.32%
	May	380	348	32	0.00%	8.32%
	Jun	376	344	31	0.00%	8.32%
	Jul	368	337	31	0.00%	8.32%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Aug	385	353	32	0.00%	8.32%
	Sep	403	369	33	0.00%	8.32%
	Oct	396	363	33	0.00%	8.32%
	Nov	410	376	34	0.00%	8.32%
	Dec	413	379	34	0.00%	8.32%
2021	Jan	432	397	35	0.00%	8.12%
	Feb	434	399	35	0.00%	8.12%
	Mar	390	358	32	0.00%	8.12%
	Apr	436	401	35	0.00%	8.12%
	May	426	392	35	0.00%	8.12%
	Jun	422	387	34	0.00%	8.12%
	Jul	413	380	34	0.00%	8.12%
	Aug	432	397	35	0.00%	8.12%
	Sep	452	415	37	0.00%	8.12%
	Oct	445	409	36	0.00%	8.12%
	Nov	460	423	37	0.00%	8.12%
	Dec	464	426	38	0.00%	8.12%
2022	Jan	479	441	38	0.00%	7.92%
	Feb	482	443	38	0.00%	7.92%
	Mar	433	399	34	0.00%	7.92%
	Apr	484	446	38	0.00%	7.92%
	May	473	435	37	0.00%	7.92%
	Jun	468	431	37	0.00%	7.92%
	Jul	458	422	36	0.00%	7.92%
	Aug	479	441	38	0.00%	7.92%
	Sep	501	462	40	0.00%	7.92%
	Oct	494	454	39	0.00%	7.92%
	Nov	511	470	40	0.00%	7.92%
	Dec	514	474	41	0.00%	7.92%
2023	Jan	526	485	41	0.00%	7.72%
	Feb	529	488	41	0.00%	7.72%
	Mar	475	439	37	0.00%	7.72%
	Apr	531	490	41	0.00%	7.72%
	May	519	479	40	0.00%	7.72%
	Jun	514	474	40	0.00%	7.72%
	Jul	503	464	39	0.00%	7.72%
	Aug	526	485	41	0.00%	7.72%
	Sep	551	508	43	0.00%	7.72%
	Oct	542	500	42	0.00%	7.72%
	Nov	561	517	43	0.00%	7.72%
	Dec	565	521	44	0.00%	7.72%
2024	Jan	572	529	43	0.00%	7.52%
	Feb	576	533	43	0.00%	7.52%
	Mar	518	479	39	0.00%	7.52%
	Apr	579	535	44	0.00%	7.52%
	May	565	523	43	0.00%	7.52%
	Jun	559	517	42	0.00%	7.52%

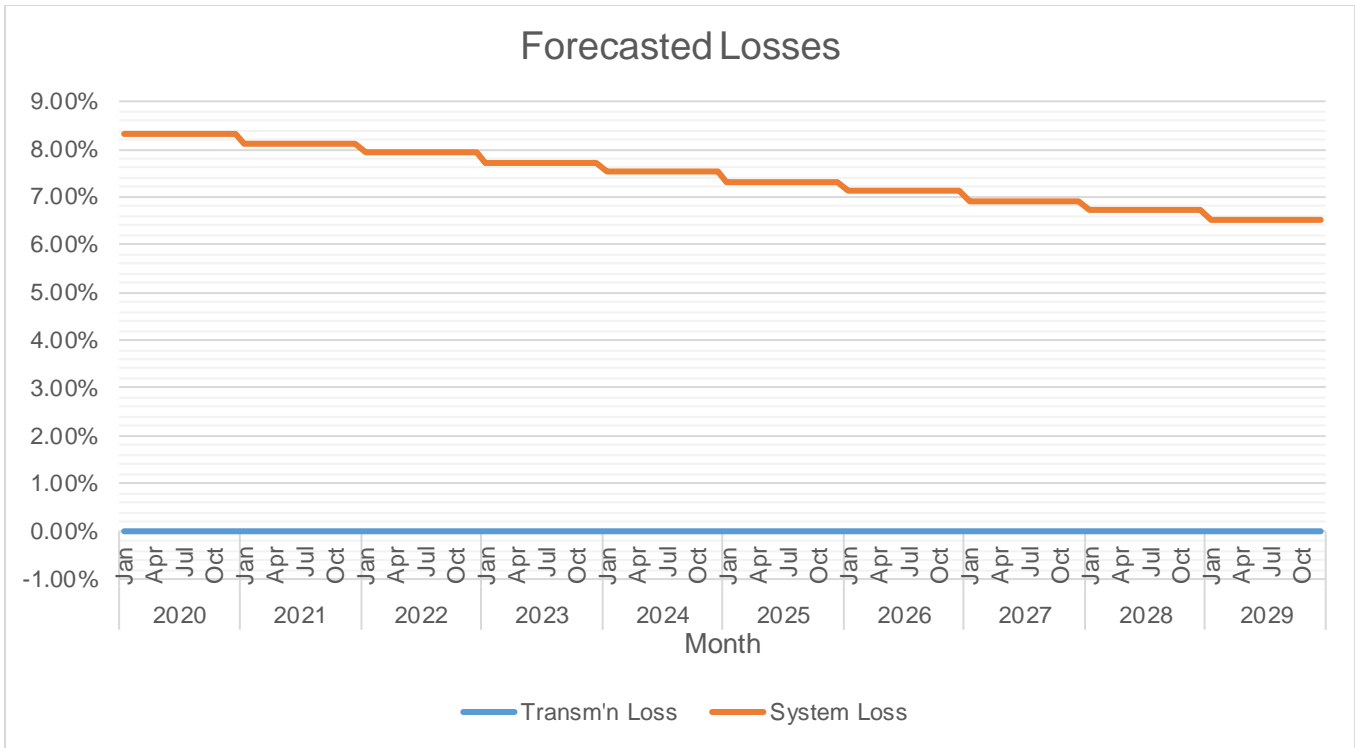
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Jul	548	507	41	0.00%	7.52%
	Aug	573	530	43	0.00%	7.52%
	Sep	600	554	45	0.00%	7.52%
	Oct	590	546	44	0.00%	7.52%
	Nov	610	565	46	0.00%	7.52%
	Dec	615	569	46	0.00%	7.52%
2025	Jan	619	573	45	0.00%	7.32%
	Feb	622	577	46	0.00%	7.32%
	Mar	559	518	41	0.00%	7.32%
	Apr	625	580	46	0.00%	7.32%
	May	611	566	45	0.00%	7.32%
	Jun	605	560	44	0.00%	7.32%
	Jul	592	549	43	0.00%	7.32%
	Aug	619	574	45	0.00%	7.32%
	Sep	648	601	47	0.00%	7.32%
	Oct	638	591	47	0.00%	7.32%
	Nov	660	611	48	0.00%	7.32%
	Dec	665	616	49	0.00%	7.32%
2026	Jan	664	617	47	0.00%	7.12%
	Feb	668	621	48	0.00%	7.12%
	Mar	601	558	43	0.00%	7.12%
	Apr	672	624	48	0.00%	7.12%
	May	656	609	47	0.00%	7.12%
	Jun	649	603	46	0.00%	7.12%
	Jul	636	591	45	0.00%	7.12%
	Aug	665	617	47	0.00%	7.12%
	Sep	696	646	50	0.00%	7.12%
	Oct	685	636	49	0.00%	7.12%
	Nov	708	658	50	0.00%	7.12%
	Dec	714	663	51	0.00%	7.12%
2027	Jan	710	660	49	0.00%	6.92%
	Feb	714	664	49	0.00%	6.92%
	Mar	641	597	44	0.00%	6.92%
	Apr	717	668	50	0.00%	6.92%
	May	701	652	48	0.00%	6.92%
	Jun	693	645	48	0.00%	6.92%
	Jul	679	632	47	0.00%	6.92%
	Aug	710	661	49	0.00%	6.92%
	Sep	743	692	51	0.00%	6.92%
	Oct	731	681	51	0.00%	6.92%
	Nov	757	704	52	0.00%	6.92%
	Dec	762	709	53	0.00%	6.92%
2028	Jan	754	703	51	0.00%	6.72%
	Feb	758	707	51	0.00%	6.72%
	Mar	682	636	46	0.00%	6.72%
	Apr	762	711	51	0.00%	6.72%
	May	745	695	50	0.00%	6.72%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Jun	737	687	50	0.00%	6.72%
	Jul	722	673	48	0.00%	6.72%
	Aug	754	704	51	0.00%	6.72%
	Sep	790	737	53	0.00%	6.72%
	Oct	777	725	52	0.00%	6.72%
	Nov	804	750	54	0.00%	6.72%
	Dec	810	756	54	0.00%	6.72%
2029	Jan	798	746	52	0.00%	6.52%
	Feb	803	750	52	0.00%	6.52%
	Mar	721	674	47	0.00%	6.52%
	Apr	807	754	53	0.00%	6.52%
	May	788	737	51	0.00%	6.52%
	Jun	780	729	51	0.00%	6.52%
	Jul	764	714	50	0.00%	6.52%
	Aug	798	746	52	0.00%	6.52%
	Sep	836	781	54	0.00%	6.52%
	Oct	822	769	54	0.00%	6.52%
	Nov	851	795	55	0.00%	6.52%
	Dec	857	801	56	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

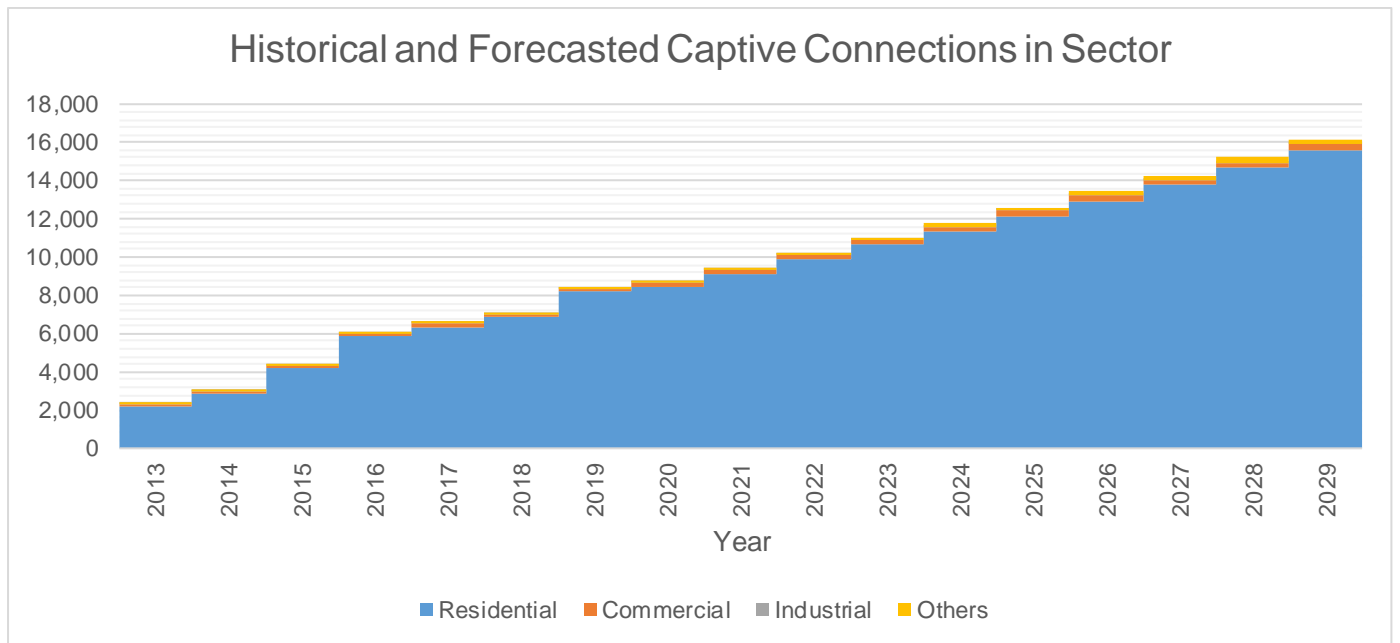
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
NPC-SPUG SNADPP	Base	National Power Corporation	1.03	4,637	12/26/2017	12/25/2022

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 5.08 P/kWh to 5.16 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 1.03 MW and 4,637 MWh, respectively.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
NPC-SPUG SNADPP Renewal	Base	National Power Corporation	1.07	6,342	12/26/2022	12/25/2029

The PSA with NPC-SPUG will be renew with the lowest demand and energy of 1.07 MW and 6,342 MWh, respectively.

Captive Customer Connections



The number of Residential connections is expected to grow at a rate of 6.66% annually. Said customer class is expected to account for 96.67% of the total consumption.