

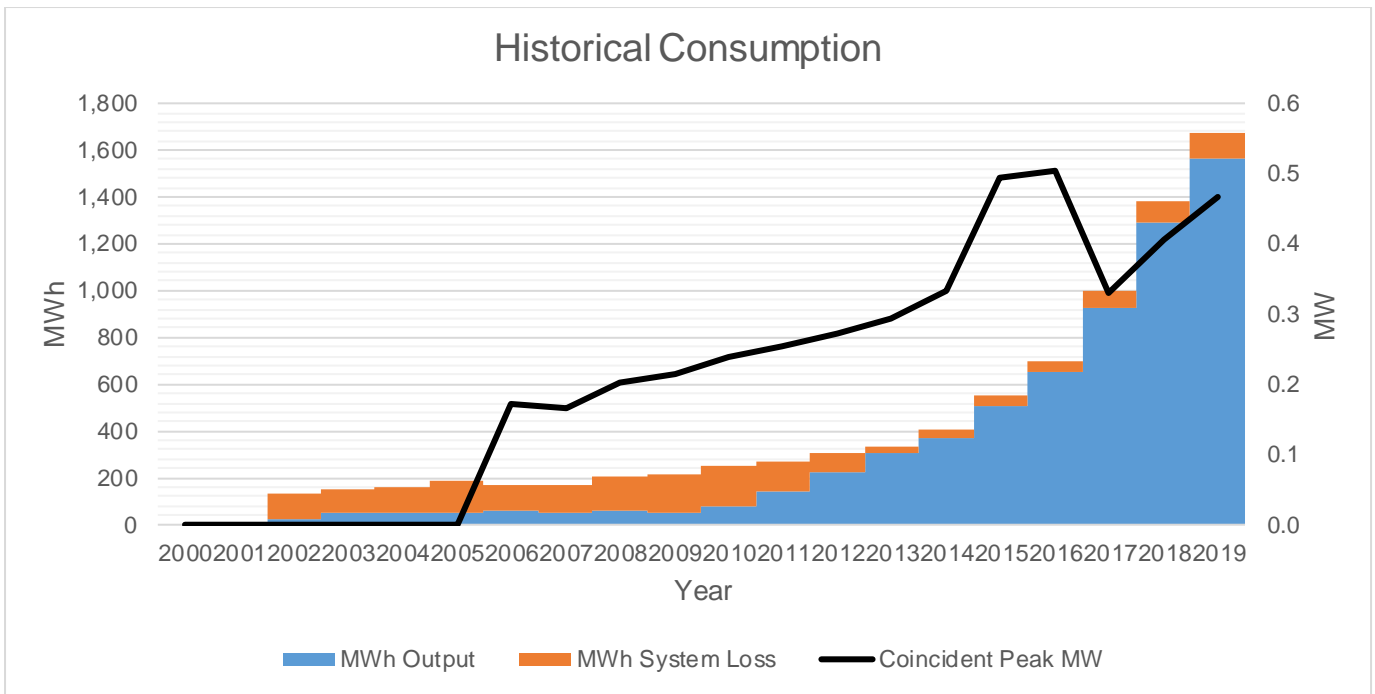
Power Supply Procurement Plan 2020

**Sultan Kudarat Electric Cooperative, Inc. (SUKELCO)
SIIG (Palimbang)**

Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2002	0.00	129	0	129	26	103	#DIV/0!	0.00%	0.00%	79.72%
2003	0.00	148	0	148	51	97	#DIV/0!	0.00%	0.00%	65.78%
2004	0.00	157	0	157	53	104	#DIV/0!	0.00%	0.00%	66.18%
2005	0.00	186	0	186	46	139	#DIV/0!	0.00%	0.00%	75.03%
2006	0.17	173	0	173	56	117	11%	0.00%	0.00%	67.62%
2007	0.17	167	0	167	52	115	12%	0.00%	0.00%	68.89%
2008	0.20	202	0	202	60	142	11%	0.00%	0.00%	70.40%
2009	0.22	212	0	212	50	162	11%	0.00%	0.00%	76.47%
2010	0.24	249	0	249	82	167	12%	0.00%	0.00%	67.16%
2011	0.26	268	0	268	143	125	12%	0.00%	0.00%	46.71%
2012	0.27	310	0	310	223	87	13%	0.00%	0.00%	27.94%
2013	0.29	334	0	334	308	26	13%	0.00%	0.00%	7.74%
2014	0.33	406	0	406	372	35	14%	0.00%	0.00%	8.52%
2015	0.49	548	0	548	509	38	13%	0.00%	0.00%	6.99%
2016	0.50	702	0	702	656	46	16%	0.00%	0.00%	6.54%
2017	0.33	999	0	999	927	72	34%	0.00%	0.00%	7.24%
2018	0.41	1,386	0	1,386	1,288	98	39%	0.00%	0.00%	7.09%
2019	0.47	1,672	0	1,672	1,562	111	41%	0.00%	0.00%	6.62%

Peak Demand increased from 0.17 MW in 2006 to 0.47 MW in 2019 at a rate of 9.57% due to increase in the number of connections. MWh Offtake increased from 129 MWh in 2002 to 1,672 MWh in 2019 at a rate of 17.04% due to the same reason. Within the same period, Load Factor ranged from 11% to 41%.

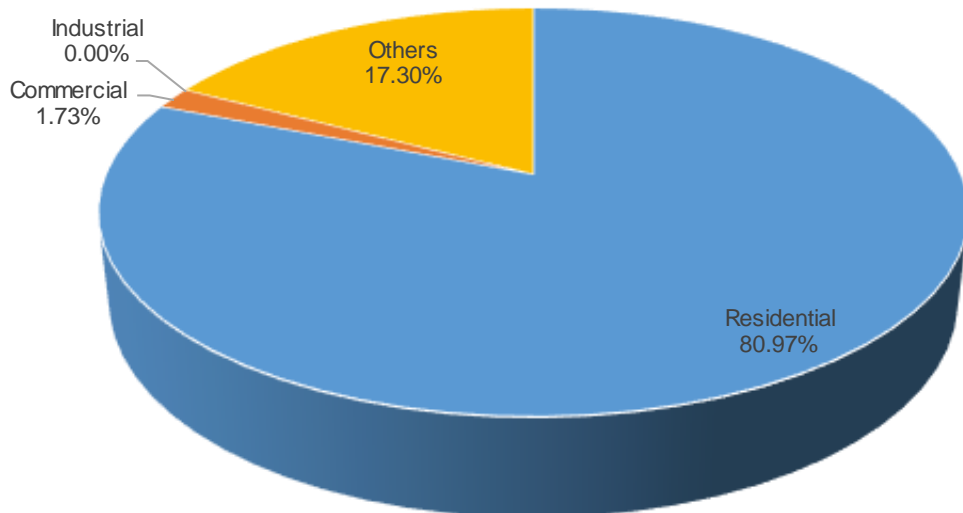


MWh Output increased from year 2002 to year 2019 at a rate of 30.52%, while MWh System Loss increased at a rate of 6.06% within the same period.



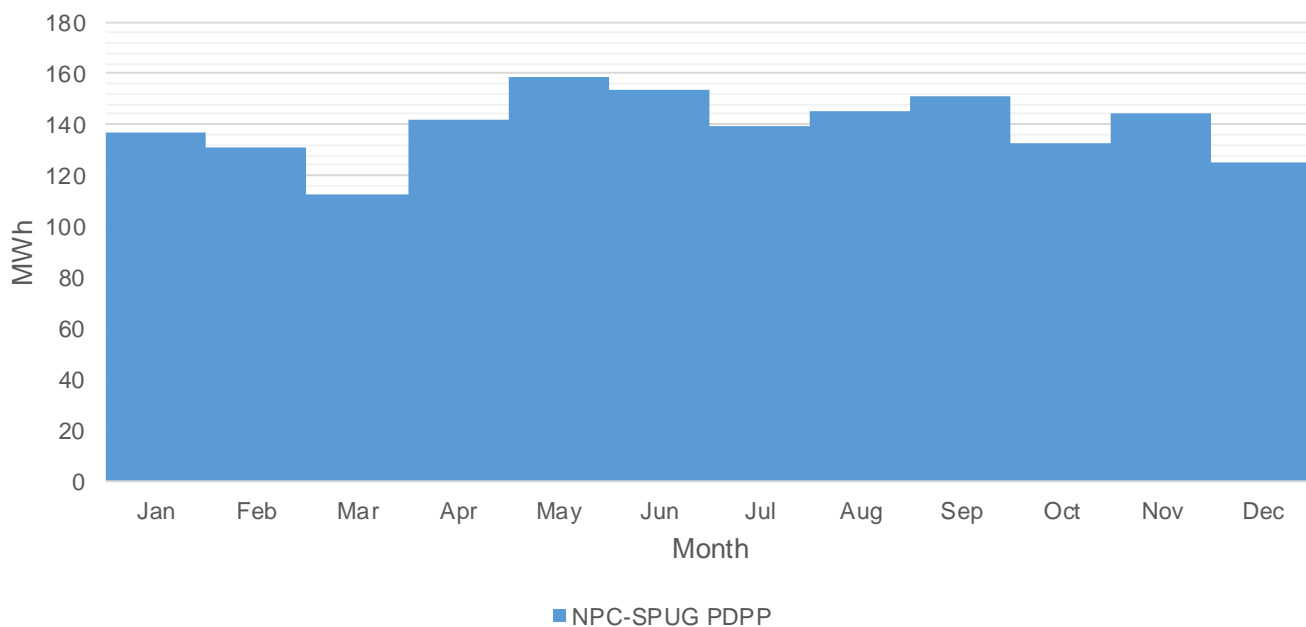
Historically, System Loss ranged from 6.54% to 79.72%. System Loss peaked at 79.72% on year 2002 because of high non-technical losses.

Previous Year's Shares of Energy Sales



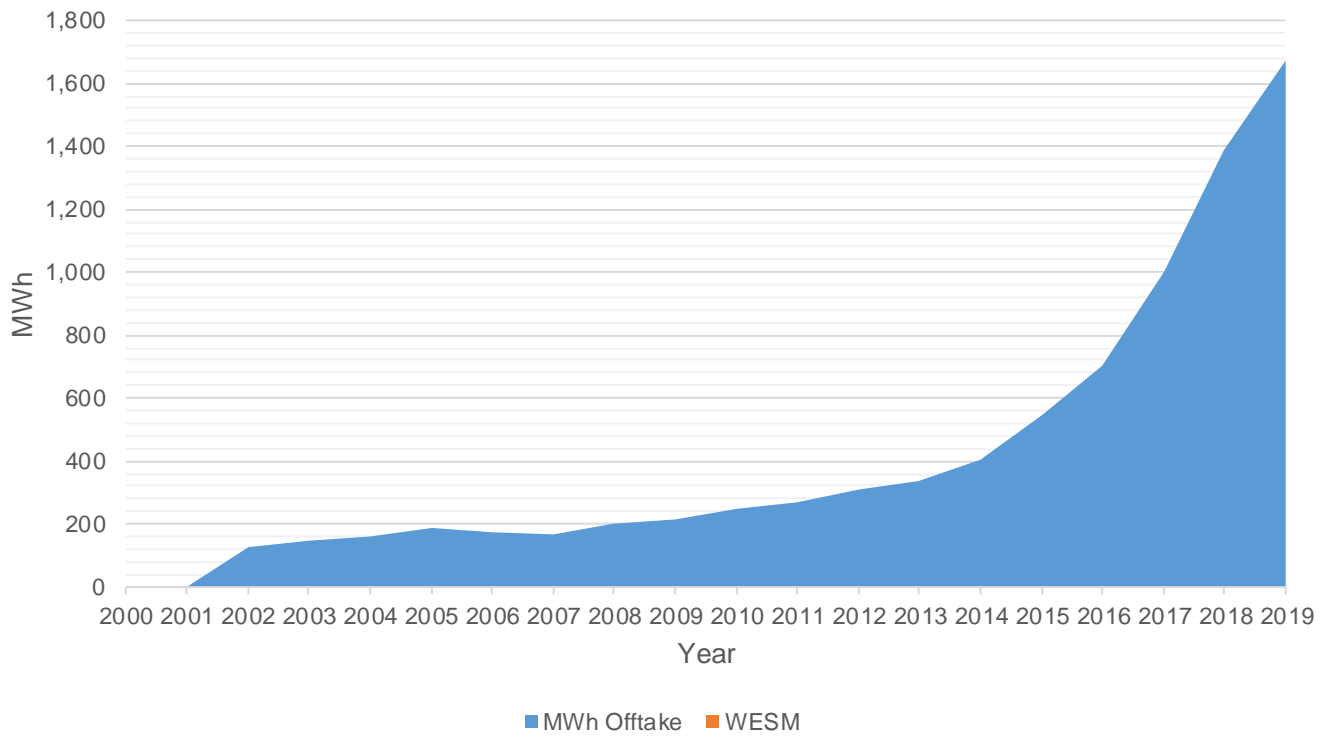
Residential customers account for the bulk of energy sales at 80.97% due to the high number of connections. In contrast, Industrial customers accounted for only 0.00% of energy sales due to no industrial customers in the area.

MWh Offtake for Last Historical Year



For NPC-SPUG, the total Offtake for the last historical year is higher 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.

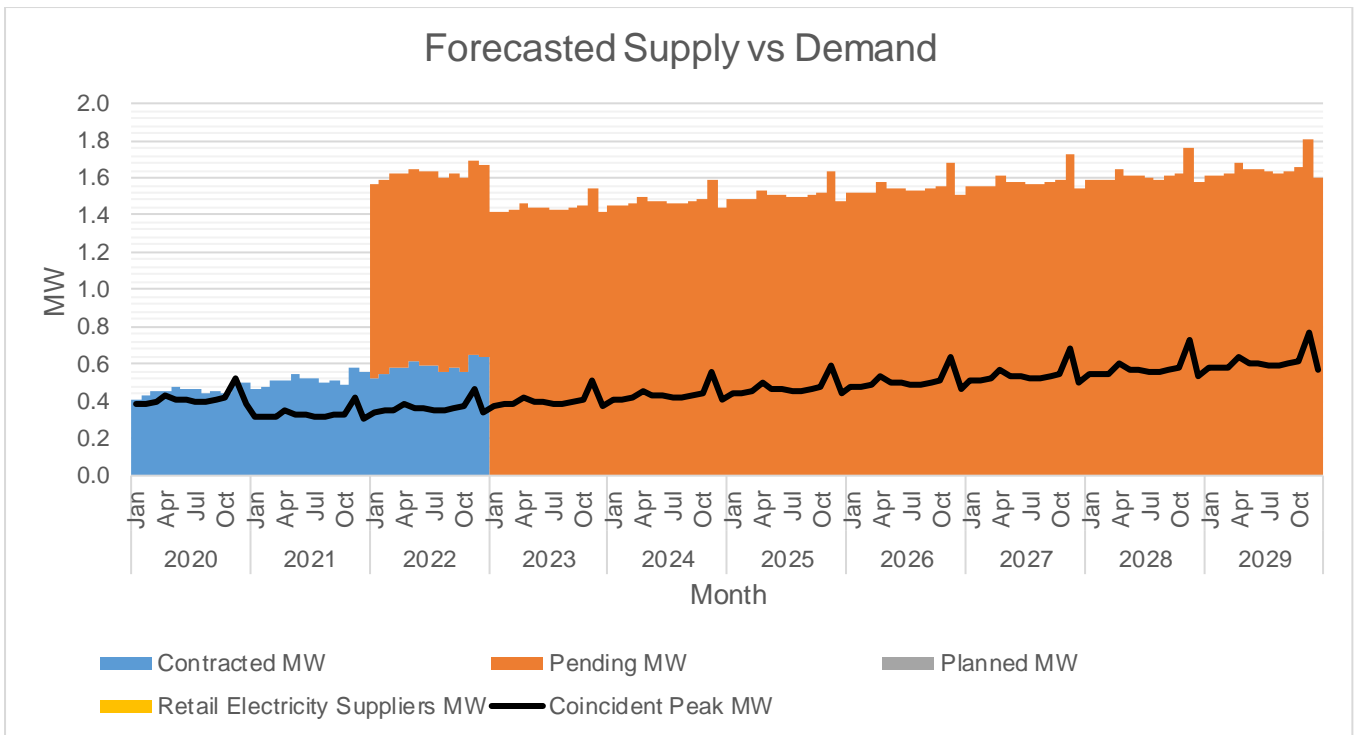
Forecasted Consumption Data

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2020	Jan	0.39	0.41	0.00	0.000	106%	106%	0.02
	Feb	0.39	0.43	0.00	0.000	109%	109%	0.04
	Mar	0.39	0.46	0.00	0.000	116%	116%	0.06
	Apr	0.43	0.46	0.00	0.000	105%	105%	0.02
	May	0.41	0.48	0.00	0.000	117%	117%	0.07
	Jun	0.41	0.47	0.00	0.000	113%	113%	0.05
	Jul	0.40	0.46	0.00	0.000	116%	116%	0.06
	Aug	0.40	0.44	0.00	0.000	111%	111%	0.04
	Sep	0.41	0.45	0.00	0.000	112%	112%	0.05
	Oct	0.42	0.44	0.00	0.000	105%	105%	0.02
	Nov	0.52	0.51	0.00	0.000	98%	98%	-0.01
	Dec	0.38	0.50	0.00	0.000	130%	130%	0.11
2021	Jan	0.31	0.47	0.00	0.000	150%	150%	0.15
	Feb	0.31	0.48	0.00	0.000	155%	155%	0.17
	Mar	0.31	0.51	0.00	0.000	163%	163%	0.20
	Apr	0.35	0.52	0.00	0.000	149%	149%	0.17
	May	0.33	0.54	0.00	0.000	165%	165%	0.21
	Jun	0.33	0.53	0.00	0.000	160%	160%	0.20
	Jul	0.32	0.52	0.00	0.000	164%	164%	0.20
	Aug	0.32	0.50	0.00	0.000	157%	157%	0.18
	Sep	0.32	0.51	0.00	0.000	158%	158%	0.19
	Oct	0.33	0.49	0.00	0.000	148%	148%	0.16
	Nov	0.42	0.58	0.00	0.000	139%	139%	0.16
	Dec	0.31	0.56	0.00	0.000	183%	183%	0.25
2022	Jan	0.34	0.53	1.04	0.000	152%	454%	1.22
	Feb	0.35	0.55	1.04	0.000	158%	458%	1.24
	Mar	0.35	0.58	1.04	0.000	166%	464%	1.27
	Apr	0.38	0.58	1.04	0.000	152%	423%	1.24
	May	0.36	0.61	1.04	0.000	168%	455%	1.29
	Jun	0.36	0.59	1.04	0.000	163%	449%	1.27
	Jul	0.35	0.59	1.04	0.000	167%	461%	1.28
	Aug	0.35	0.56	1.04	0.000	160%	455%	1.25
	Sep	0.36	0.58	1.04	0.000	161%	450%	1.26
	Oct	0.37	0.56	1.04	0.000	151%	432%	1.23
	Nov	0.46	0.65	1.04	0.000	141%	367%	1.23
	Dec	0.34	0.63	1.04	0.000	187%	493%	1.33
2023	Jan	0.38	0.00	1.42	0.000	0%	375%	1.04
	Feb	0.38	0.00	1.42	0.000	0%	374%	1.04
	Mar	0.38	0.00	1.42	0.000	0%	371%	1.04
	Apr	0.42	0.00	1.46	0.000	0%	347%	1.04
	May	0.40	0.00	1.44	0.000	0%	361%	1.04
	Jun	0.40	0.00	1.44	0.000	0%	360%	1.04
	Jul	0.39	0.00	1.43	0.000	0%	368%	1.04
	Aug	0.39	0.00	1.43	0.000	0%	369%	1.04

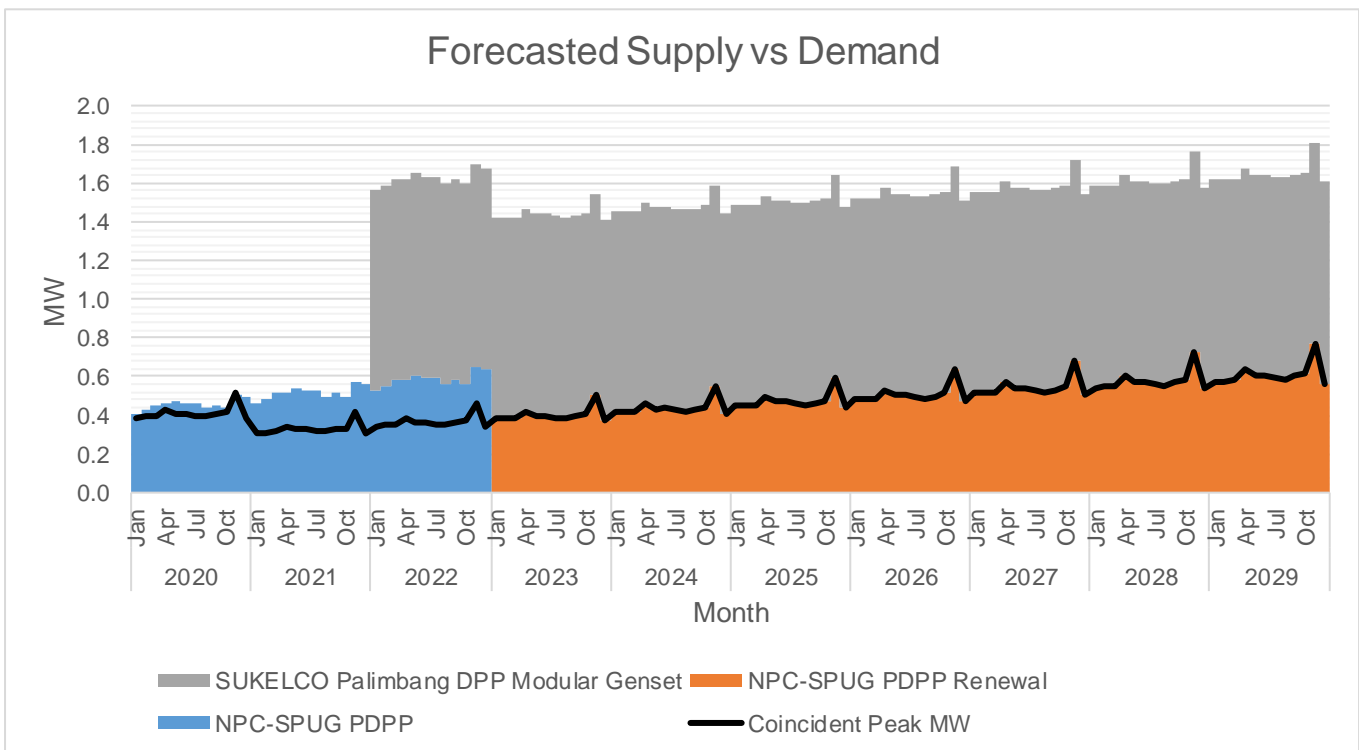
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Sep	0.40	0.00	1.44	0.000	0%	363%	1.04
	Oct	0.41	0.00	1.45	0.000	0%	356%	1.04
	Nov	0.51	0.00	1.55	0.000	0%	305%	1.04
	Dec	0.37	0.00	1.41	0.000	0%	379%	1.04
2024	Jan	0.41	0.00	1.45	0.000	0%	352%	1.04
	Feb	0.41	0.00	1.45	0.000	0%	351%	1.04
	Mar	0.42	0.00	1.46	0.000	0%	349%	1.04
	Apr	0.46	0.00	1.50	0.000	0%	327%	1.04
	May	0.43	0.00	1.47	0.000	0%	340%	1.04
	Jun	0.43	0.00	1.47	0.000	0%	339%	1.04
	Jul	0.42	0.00	1.46	0.000	0%	346%	1.04
	Aug	0.42	0.00	1.46	0.000	0%	347%	1.04
	Sep	0.43	0.00	1.47	0.000	0%	342%	1.04
	Oct	0.44	0.00	1.48	0.000	0%	335%	1.04
	Nov	0.55	0.00	1.59	0.000	0%	289%	1.04
	Dec	0.41	0.00	1.45	0.000	0%	357%	1.04
2025	Jan	0.45	0.00	1.49	0.000	0%	333%	1.04
	Feb	0.45	0.00	1.49	0.000	0%	333%	1.04
	Mar	0.45	0.00	1.49	0.000	0%	331%	1.04
	Apr	0.50	0.00	1.54	0.000	0%	310%	1.04
	May	0.47	0.00	1.51	0.000	0%	322%	1.04
	Jun	0.47	0.00	1.51	0.000	0%	321%	1.04
	Jul	0.46	0.00	1.50	0.000	0%	327%	1.04
	Aug	0.45	0.00	1.49	0.000	0%	329%	1.04
	Sep	0.46	0.00	1.50	0.000	0%	324%	1.04
	Oct	0.48	0.00	1.52	0.000	0%	318%	1.04
	Nov	0.60	0.00	1.64	0.000	0%	274%	1.04
	Dec	0.44	0.00	1.48	0.000	0%	337%	1.04
2026	Jan	0.48	0.00	1.52	0.000	0%	317%	1.04
	Feb	0.48	0.00	1.52	0.000	0%	317%	1.04
	Mar	0.48	0.00	1.52	0.000	0%	315%	1.04
	Apr	0.53	0.00	1.57	0.000	0%	295%	1.04
	May	0.50	0.00	1.54	0.000	0%	307%	1.04
	Jun	0.50	0.00	1.54	0.000	0%	306%	1.04
	Jul	0.49	0.00	1.53	0.000	0%	312%	1.04
	Aug	0.49	0.00	1.53	0.000	0%	313%	1.04
	Sep	0.50	0.00	1.54	0.000	0%	308%	1.04
	Oct	0.51	0.00	1.55	0.000	0%	303%	1.04
	Nov	0.64	0.00	1.68	0.000	0%	262%	1.04
	Dec	0.47	0.00	1.51	0.000	0%	321%	1.04
2027	Jan	0.51	0.00	1.55	0.000	0%	303%	1.04
	Feb	0.51	0.00	1.55	0.000	0%	303%	1.04
	Mar	0.52	0.00	1.56	0.000	0%	301%	1.04
	Apr	0.57	0.00	1.61	0.000	0%	283%	1.04
	May	0.54	0.00	1.58	0.000	0%	293%	1.04
	Jun	0.54	0.00	1.58	0.000	0%	293%	1.04

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Jul	0.52	0.00	1.56	0.000	0%	298%	1.04
	Aug	0.52	0.00	1.56	0.000	0%	299%	1.04
	Sep	0.53	0.00	1.57	0.000	0%	295%	1.04
	Oct	0.55	0.00	1.59	0.000	0%	290%	1.04
	Nov	0.68	0.00	1.72	0.000	0%	252%	1.04
	Dec	0.50	0.00	1.54	0.000	0%	307%	1.04
2028	Jan	0.54	0.00	1.58	0.000	0%	291%	1.04
	Feb	0.54	0.00	1.58	0.000	0%	291%	1.04
	Mar	0.55	0.00	1.59	0.000	0%	289%	1.04
	Apr	0.60	0.00	1.64	0.000	0%	272%	1.04
	May	0.57	0.00	1.61	0.000	0%	282%	1.04
	Jun	0.57	0.00	1.61	0.000	0%	282%	1.04
	Jul	0.56	0.00	1.60	0.000	0%	287%	1.04
	Aug	0.55	0.00	1.59	0.000	0%	288%	1.04
	Sep	0.57	0.00	1.61	0.000	0%	284%	1.04
	Oct	0.58	0.00	1.62	0.000	0%	279%	1.04
	Nov	0.73	0.00	1.77	0.000	0%	243%	1.04
	Dec	0.53	0.00	1.57	0.000	0%	295%	1.04
2029	Jan	0.57	0.00	1.61	0.000	0%	281%	1.04
	Feb	0.58	0.00	1.62	0.000	0%	280%	1.04
	Mar	0.58	0.00	1.62	0.000	0%	279%	1.04
	Apr	0.64	0.00	1.68	0.000	0%	263%	1.04
	May	0.60	0.00	1.64	0.000	0%	272%	1.04
	Jun	0.61	0.00	1.65	0.000	0%	272%	1.04
	Jul	0.59	0.00	1.63	0.000	0%	276%	1.04
	Aug	0.59	0.00	1.63	0.000	0%	277%	1.04
	Sep	0.60	0.00	1.64	0.000	0%	273%	1.04
	Oct	0.62	0.00	1.66	0.000	0%	269%	1.04
	Nov	0.77	0.00	1.81	0.000	0%	235%	1.04
	Dec	0.57	0.00	1.61	0.000	0%	284%	1.04

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 4.88% annually.

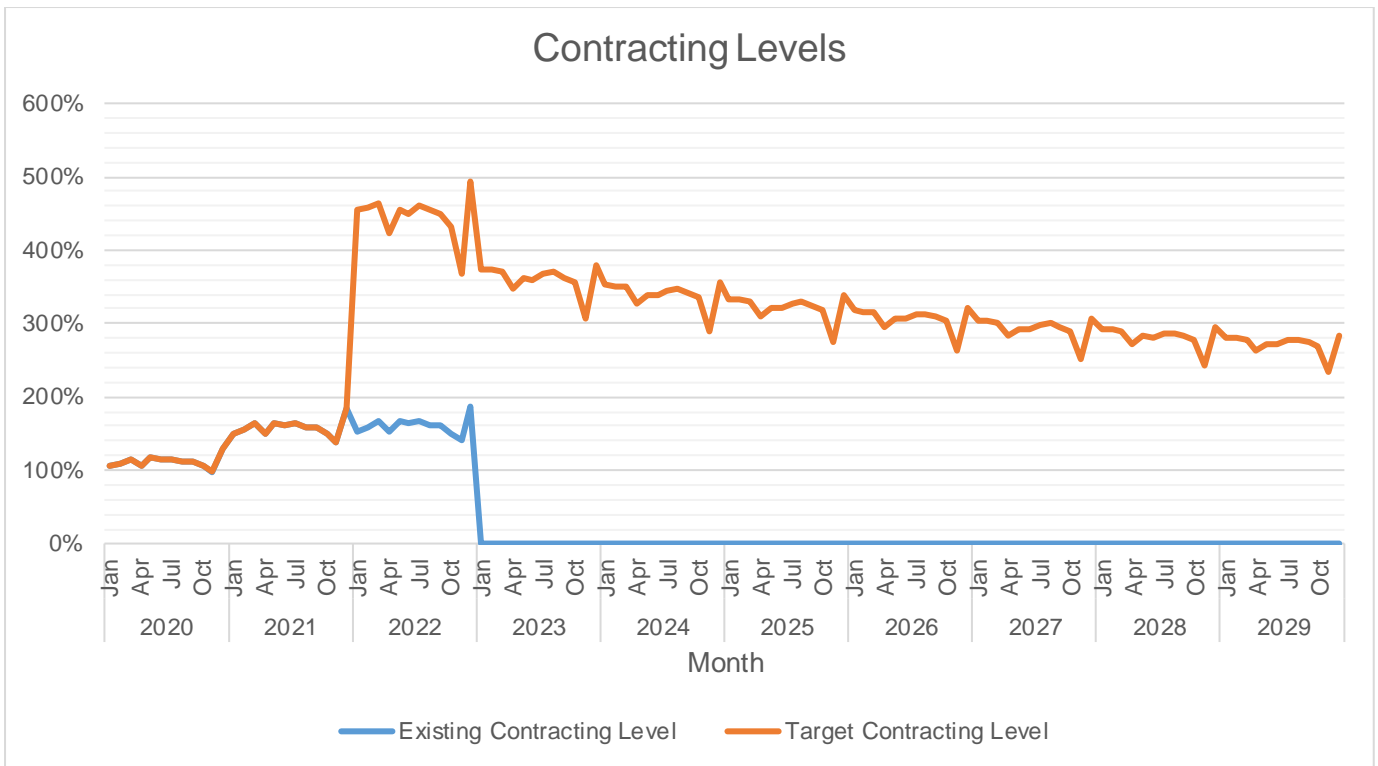


The available supply is generally above the Peak Demand. This is because of the standby genset to be operated by SUKELCO in case NPC-SPUG will conduct a preventive maintenance of their generating units.

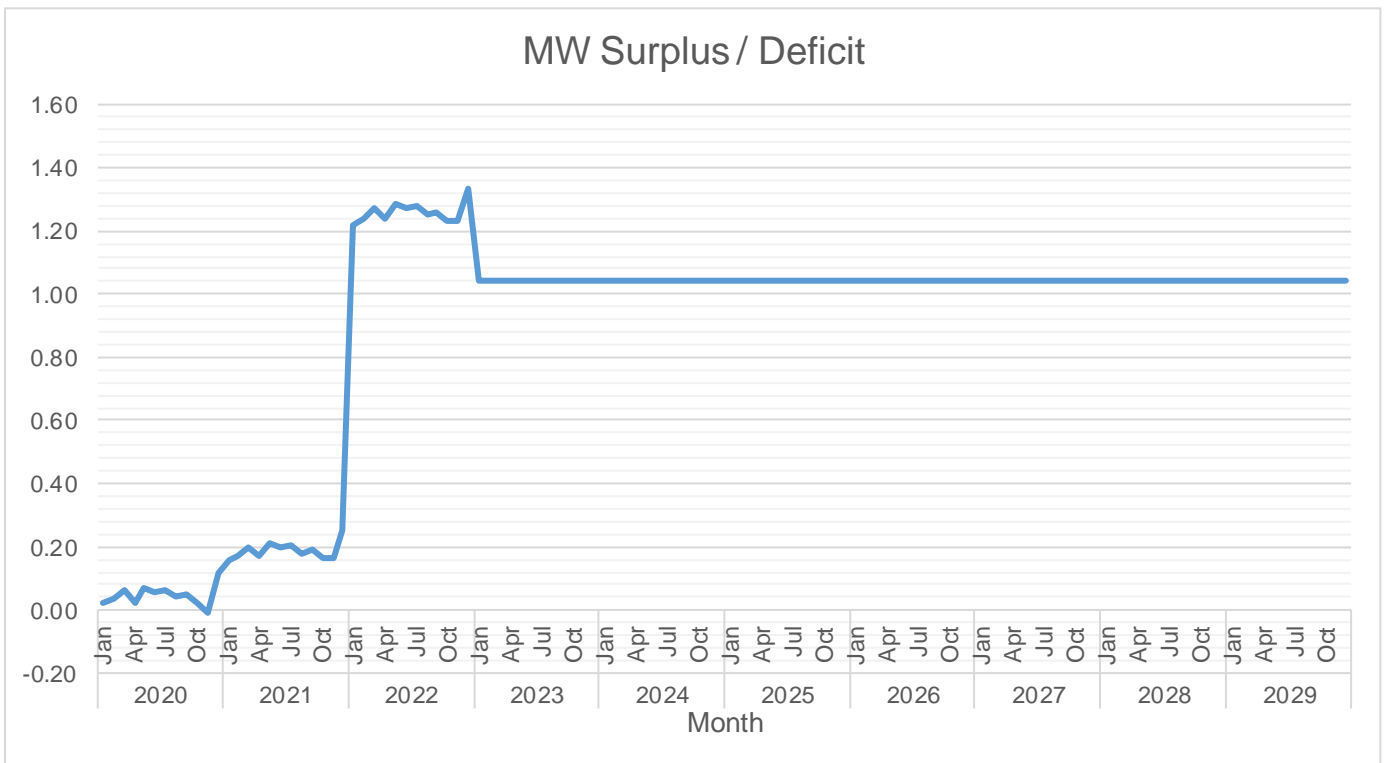


Of the available supply, the largest is 0.65 MW from NPC-SPUG.

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 493% which is expected to occur on December 2022. The lowest target contracting level is 98% which is expected to occur on November 2020.



Currently, there is no under-contacting/over-contacting. The highest surplus is 1.33 MW which is expected to occur on the month of December 2022. The lowest surplus is 0.02 MW which is expected to occur on the month of January 2020.

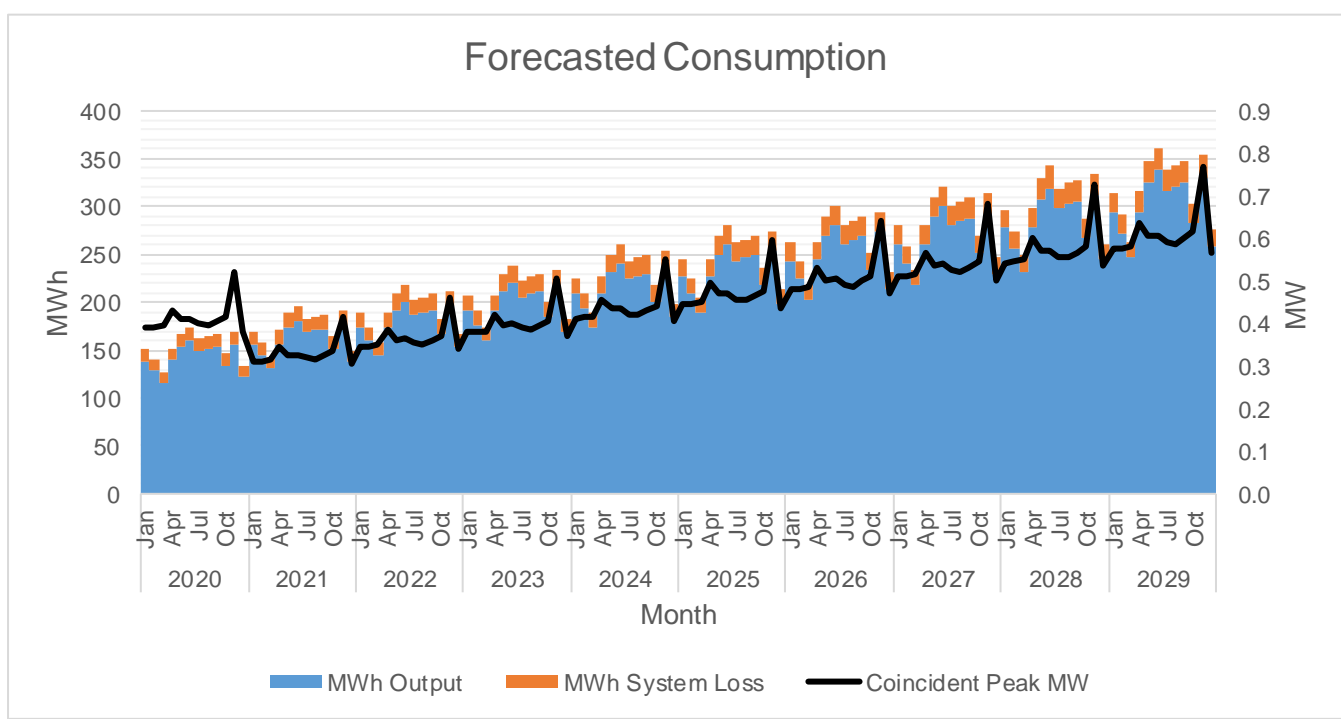
		MWh Oftake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2020	Jan	152	139	13	0.00%	8.32%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Feb	140	129	12	0.00%	8.32%
	Mar	127	116	11	0.00%	8.32%
	Apr	152	139	13	0.00%	8.32%
	May	168	154	14	0.00%	8.32%
	Jun	174	160	15	0.00%	8.32%
	Jul	163	149	14	0.00%	8.32%
	Aug	165	152	14	0.00%	8.32%
	Sep	167	153	14	0.00%	8.32%
	Oct	146	134	12	0.00%	8.32%
	Nov	170	156	14	0.00%	8.32%
	Dec	133	122	11	0.00%	8.32%
2021	Jan	170	156	14	0.00%	8.12%
	Feb	157	145	13	0.00%	8.12%
	Mar	142	131	12	0.00%	8.12%
	Apr	171	157	14	0.00%	8.12%
	May	189	173	15	0.00%	8.12%
	Jun	196	180	16	0.00%	8.12%
	Jul	183	168	15	0.00%	8.12%
	Aug	186	171	15	0.00%	8.12%
	Sep	188	173	15	0.00%	8.12%
	Oct	164	151	13	0.00%	8.12%
	Nov	191	176	16	0.00%	8.12%
	Dec	150	138	12	0.00%	8.12%
2022	Jan	189	174	15	0.00%	7.92%
	Feb	175	161	14	0.00%	7.92%
	Mar	158	146	13	0.00%	7.92%
	Apr	189	174	15	0.00%	7.92%
	May	209	193	17	0.00%	7.92%
	Jun	217	200	17	0.00%	7.92%
	Jul	203	187	16	0.00%	7.92%
	Aug	206	190	16	0.00%	7.92%
	Sep	208	192	16	0.00%	7.92%
	Oct	182	168	14	0.00%	7.92%
	Nov	212	195	17	0.00%	7.92%
	Dec	166	153	13	0.00%	7.92%
2023	Jan	207	191	16	0.00%	7.72%
	Feb	192	177	15	0.00%	7.72%
	Mar	174	160	13	0.00%	7.72%
	Apr	208	192	16	0.00%	7.72%
	May	230	212	18	0.00%	7.72%
	Jun	239	220	18	0.00%	7.72%
	Jul	223	206	17	0.00%	7.72%
	Aug	226	209	17	0.00%	7.72%
	Sep	229	211	18	0.00%	7.72%
	Oct	200	184	15	0.00%	7.72%
	Nov	233	215	18	0.00%	7.72%
	Dec	182	168	14	0.00%	7.72%

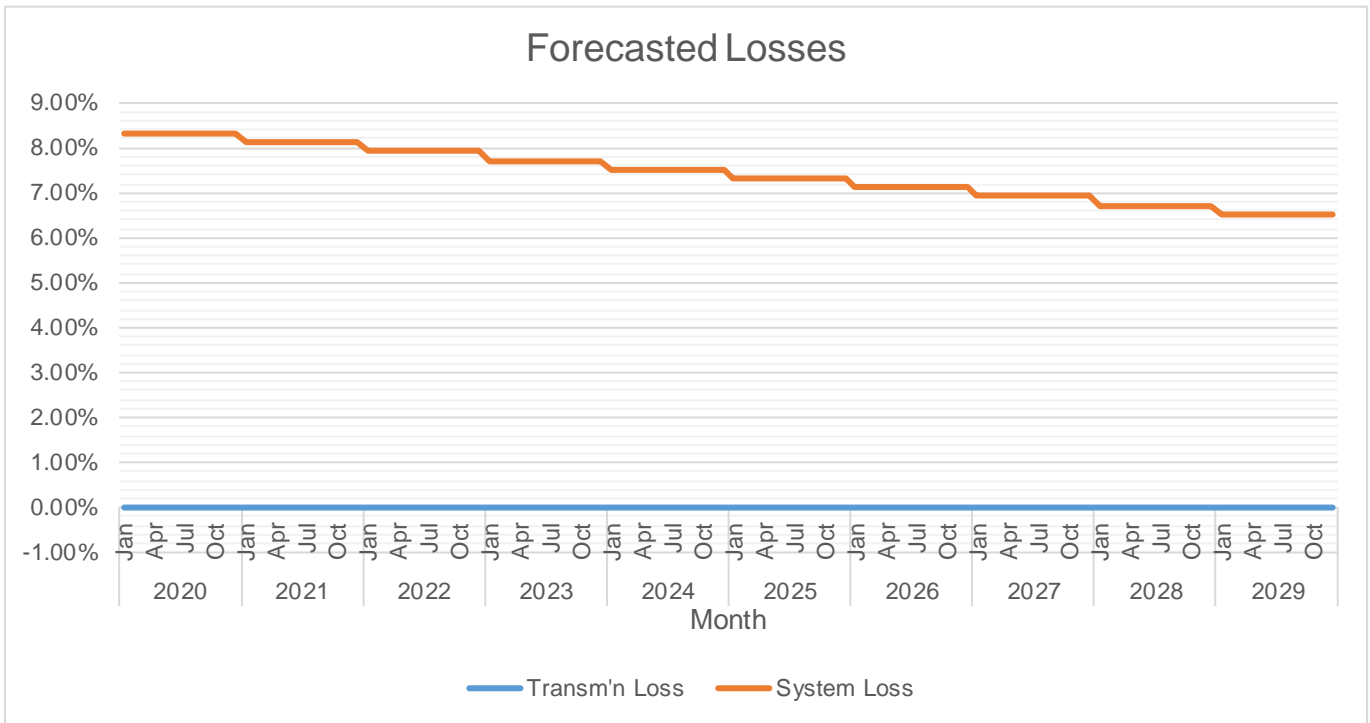
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	226	209	17	0.00%	7.52%
	Feb	209	193	16	0.00%	7.52%
	Mar	189	175	14	0.00%	7.52%
	Apr	226	209	17	0.00%	7.52%
	May	250	231	19	0.00%	7.52%
	Jun	260	240	20	0.00%	7.52%
	Jul	243	224	18	0.00%	7.52%
	Aug	246	228	19	0.00%	7.52%
	Sep	249	230	19	0.00%	7.52%
	Oct	218	201	16	0.00%	7.52%
	Nov	254	235	19	0.00%	7.52%
	Dec	199	184	15	0.00%	7.52%
2025	Jan	244	226	18	0.00%	7.32%
	Feb	226	209	17	0.00%	7.32%
	Mar	204	189	15	0.00%	7.32%
	Apr	245	227	18	0.00%	7.32%
	May	270	251	20	0.00%	7.32%
	Jun	281	260	21	0.00%	7.32%
	Jul	262	243	19	0.00%	7.32%
	Aug	266	247	19	0.00%	7.32%
	Sep	269	249	20	0.00%	7.32%
	Oct	235	218	17	0.00%	7.32%
	Nov	274	254	20	0.00%	7.32%
	Dec	215	199	16	0.00%	7.32%
2026	Jan	262	243	19	0.00%	7.12%
	Feb	242	225	17	0.00%	7.12%
	Mar	219	204	16	0.00%	7.12%
	Apr	263	244	19	0.00%	7.12%
	May	290	270	21	0.00%	7.12%
	Jun	301	280	21	0.00%	7.12%
	Jul	282	262	20	0.00%	7.12%
	Aug	286	265	20	0.00%	7.12%
	Sep	289	268	21	0.00%	7.12%
	Oct	252	234	18	0.00%	7.12%
	Nov	294	273	21	0.00%	7.12%
	Dec	231	214	16	0.00%	7.12%
2027	Jan	280	260	19	0.00%	6.92%
	Feb	259	241	18	0.00%	6.92%
	Mar	234	218	16	0.00%	6.92%
	Apr	281	261	19	0.00%	6.92%
	May	310	289	21	0.00%	6.92%
	Jun	322	300	22	0.00%	6.92%
	Jul	301	280	21	0.00%	6.92%
	Aug	305	284	21	0.00%	6.92%
	Sep	309	287	21	0.00%	6.92%
	Oct	270	251	19	0.00%	6.92%
	Nov	314	293	22	0.00%	6.92%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Dec	246	229	17	0.00%	6.92%
2028	Jan	297	277	20	0.00%	6.72%
	Feb	275	256	18	0.00%	6.72%
	Mar	249	232	17	0.00%	6.72%
	Apr	298	278	20	0.00%	6.72%
	May	329	307	22	0.00%	6.72%
	Jun	342	319	23	0.00%	6.72%
	Jul	320	298	21	0.00%	6.72%
	Aug	324	303	22	0.00%	6.72%
	Sep	328	306	22	0.00%	6.72%
	Oct	287	267	19	0.00%	6.72%
	Nov	334	312	22	0.00%	6.72%
	Dec	262	244	18	0.00%	6.72%
2029	Jan	315	294	21	0.00%	6.52%
	Feb	291	272	19	0.00%	6.52%
	Mar	263	246	17	0.00%	6.52%
	Apr	315	295	21	0.00%	6.52%
	May	349	326	23	0.00%	6.52%
	Jun	362	338	24	0.00%	6.52%
	Jul	338	316	22	0.00%	6.52%
	Aug	343	321	22	0.00%	6.52%
	Sep	347	324	23	0.00%	6.52%
	Oct	303	283	20	0.00%	6.52%
	Nov	354	330	23	0.00%	6.52%
	Dec	277	259	18	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

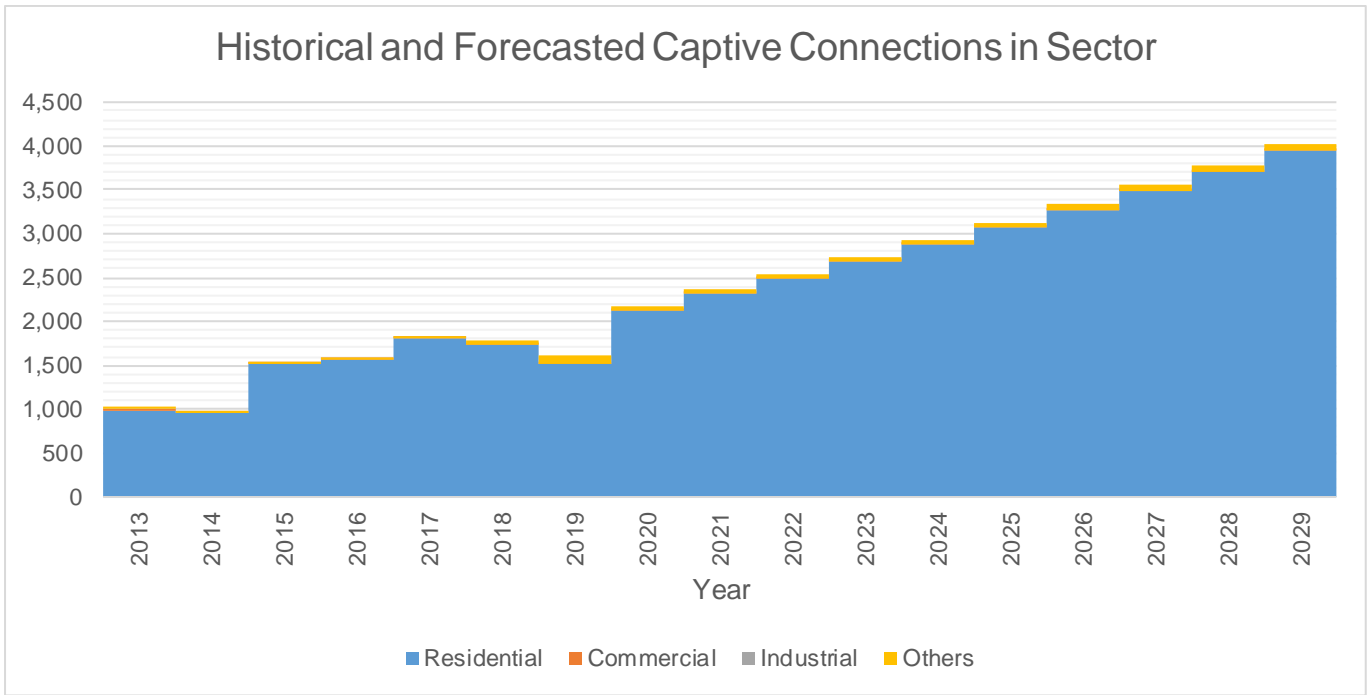
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
NPC-SPUG PDPP	Base	National Power Corporation	0.41	1,859	12/26/2017	12/25/2022

The PSA with NPC-SPUG will serve as a load following power plant in the area of Palimbang, Sultan Kudarat. The actual billed overall monthly charge under the PSA ranged from 5.01 P/kWh to 5.18 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 0.41 MW and 1,859 MWh, respectively.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
SUKELCO Palimbang DPP Modular Genset	Peaking	DU-owned	1.04	120		
NPC-SPUG PDPP Renewal	Base	National Power Corporation	0.37	2,542	12/26/2022	12/25/2029

The SUKELCO Palimbang 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 renewed with the lowest demand and energy of 0.37 MW and 2,542 MWh, respectively.

Captive Customer Connections



The number of Residential connections is expected to grow at a rate of 10.35% annually. Said customer class is expected to account for 94.66% of the total consumption.