

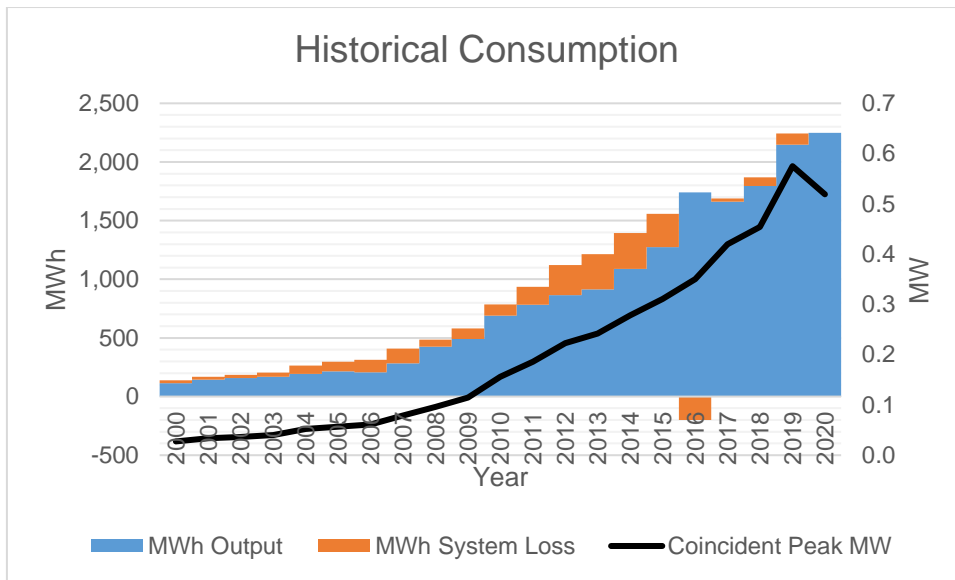
Power Supply Procurement Plan 2021

CALUYA ISLAND

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	0.03	138	0	138	114	25	58%	0.00%	0.00%	17.72%
2001	0.03	169	0	169	143	26	58%	0.00%	0.00%	15.20%
2002	0.04	185	0	185	157	28	58%	0.00%	0.00%	15.23%
2003	0.04	203	0	203	170	33	58%	0.00%	0.00%	16.26%
2004	0.05	265	0	265	192	72	58%	0.00%	0.00%	27.35%
2005	0.06	296	0	296	214	82	60%	0.00%	0.00%	27.74%
2006	0.06	314	0	314	208	106	59%	0.00%	0.00%	33.82%
2007	0.08	410	0	410	284	125	59%	0.00%	0.00%	30.57%
2008	0.10	485	0	485	426	59	58%	0.00%	0.00%	12.16%
2009	0.11	581	0	581	492	89	58%	0.00%	0.00%	15.27%
2010	0.16	786	0	786	691	95	57%	0.00%	0.00%	12.13%
2011	0.19	935	0	935	783	152	57%	0.00%	0.00%	16.27%
2012	0.22	1,121	0	1,121	865	256	57%	0.00%	0.00%	22.87%
2013	0.24	1,215	0	1,215	913	301	57%	0.00%	0.00%	24.80%
2014	0.28	1,395	0	1,395	1,089	306	57%	0.00%	0.00%	21.94%
2015	0.31	1,559	0	1,559	1,275	284	57%	0.00%	0.00%	18.19%
2016	0.35	1,541	0	1,541	1,741	-200	50%	0.00%	0.00%	-12.96%
2017	0.42	1,690	0	1,690	1,663	27	46%	0.00%	0.00%	1.62%
2018	0.45	1,869	0	1,869	1,794	74	47%	0.00%	0.00%	3.98%
2019	0.58	2,243	0	2,243	2,149	95	45%	0.00%	0.00%	4.23%
2020	0.52	2,246	0	2,246	2,249	-3	49%	0.00%	0.00%	-0.12%

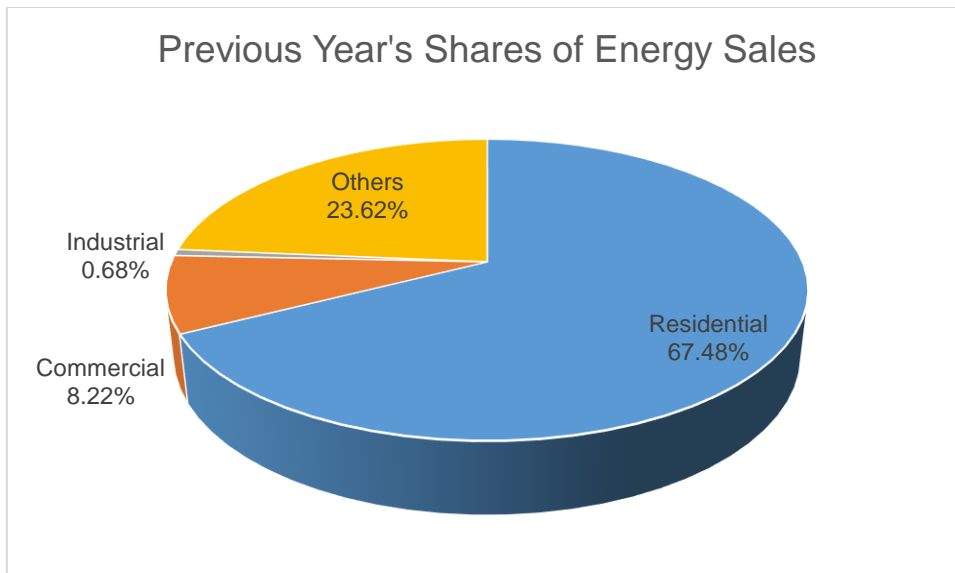
Peak Demand decreased from 0.58 MW in 2019 to 0.52 MW in 2020 at a rate of 11.5% due to decrease covid 19 pandemic. MWh Offtake is almost the same from 2019 to 2020.



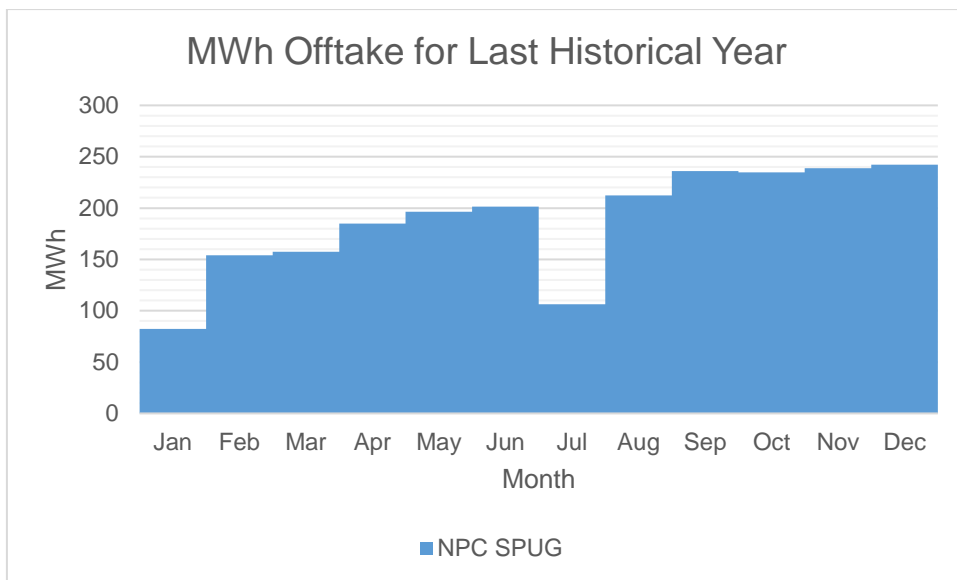
MWh Output almost the same while MWh System Loss decreased at the same period.



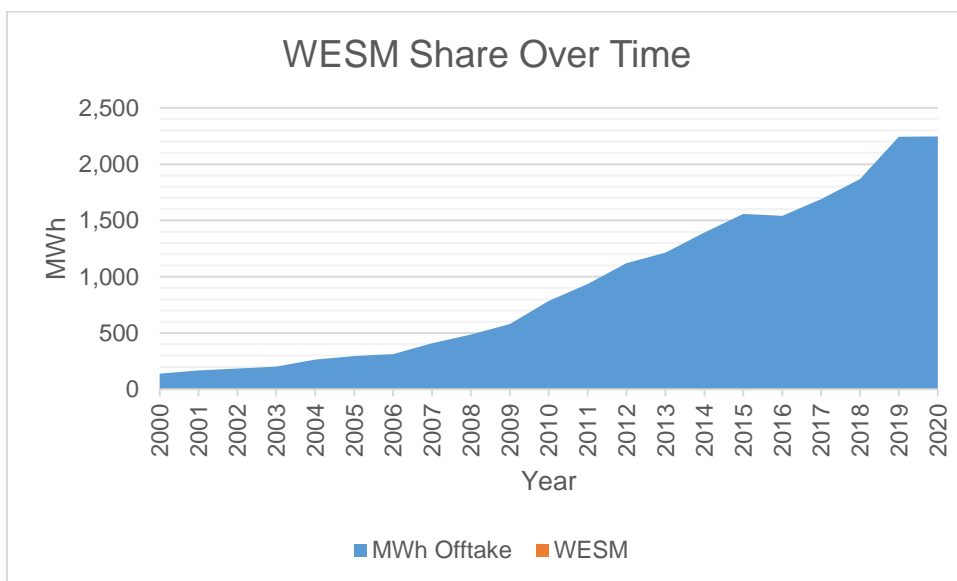
Historically, Transmission Loss ranged from ___% to ___% while System Loss ranged from ___% to ___%. Transmission Loss peaked at ___% on year ___ because of ____. System Loss peaked at ___% on year ___ because of ___.



Residential customers account for the bulk of energy sales at 67.48% due to the high number of connections. In contrast, industrial customers accounted for only 0.68% of energy sales due to the low number of connections.

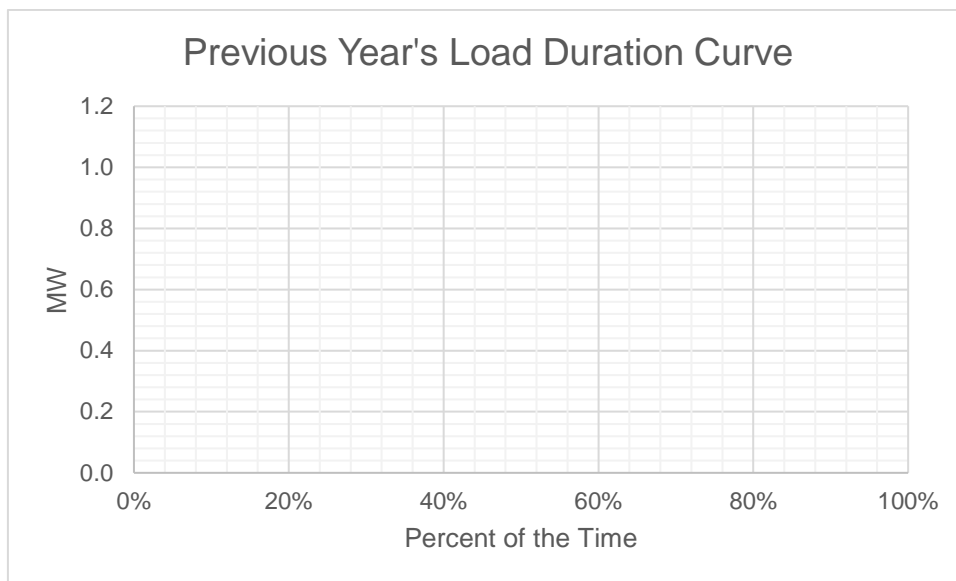


For ____, the total Offtake for the last historical year is [higher/lower] than the quantity stipulated in the PSA. The PSA with ____ accounts for the bulk of MWh Offtake.

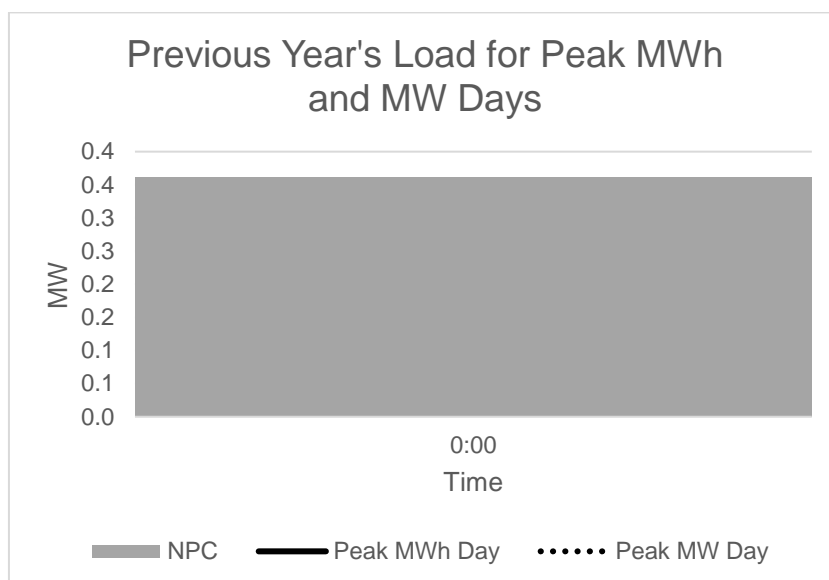


WESM Offtake is zero because Caluya Island is not connected to the main grid.

Previous Year's Load Profile



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



Peak MW occurred on 7PM due to more Residential.

Metering Point	Substation MVA	Substation Peak MW
		0.000

The substations loaded at above 70% are _____. This loading problem will be solved by _____.

Forecasted Consumption Data

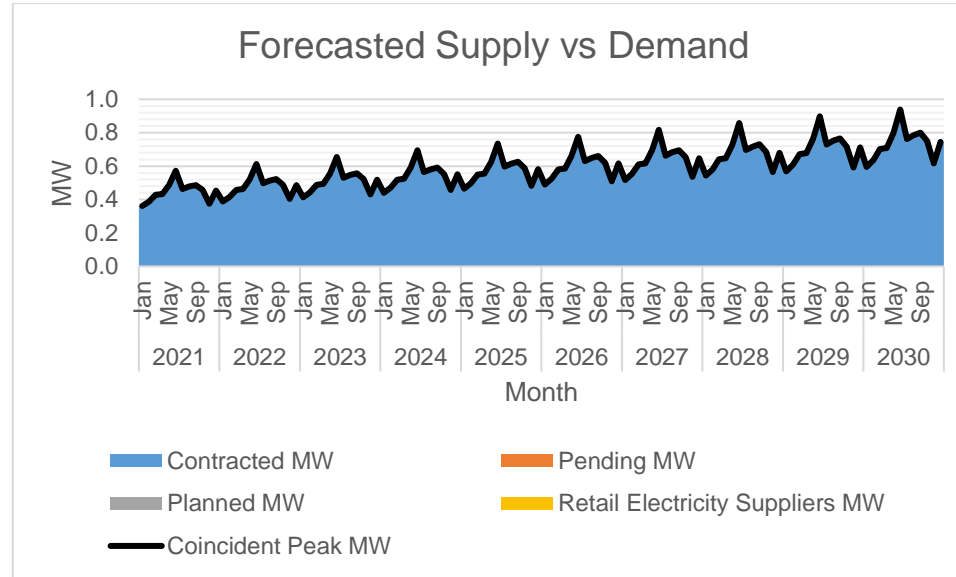
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2021	Jan	0.36	0.36	0.00	0.000		100%	100%	0.00
	Feb	0.39	0.39	0.00	0.000		100%	100%	0.00
	Mar	0.43	0.43	0.00	0.000		100%	100%	0.00
	Apr	0.43	0.43	0.00	0.000		100%	100%	0.00
	May	0.49	0.49	0.00	0.000		100%	100%	0.00
	Jun	0.57	0.57	0.00	0.000		100%	100%	0.00
	Jul	0.46	0.46	0.00	0.000		100%	100%	0.00
	Aug	0.48	0.48	0.00	0.000		100%	100%	0.00
	Sep	0.49	0.49	0.00	0.000		100%	100%	0.00
	Oct	0.46	0.46	0.00	0.000		100%	100%	0.00
	Nov	0.38	0.38	0.00	0.000		100%	100%	0.00
	Dec	0.45	0.45	0.00	0.000		100%	100%	0.00
2022	Jan	0.39	0.39	0.00	0.000		100%	100%	0.00
	Feb	0.42	0.42	0.00	0.000		100%	100%	0.00
	Mar	0.46	0.46	0.00	0.000		100%	100%	0.00
	Apr	0.46	0.46	0.00	0.000		100%	100%	0.00
	May	0.52	0.52	0.00	0.000		100%	100%	0.00
	Jun	0.61	0.61	0.00	0.000		100%	100%	0.00
	Jul	0.50	0.50	0.00	0.000		100%	100%	0.00
	Aug	0.51	0.51	0.00	0.000		100%	100%	0.00
	Sep	0.52	0.52	0.00	0.000		100%	100%	0.00
	Oct	0.49	0.49	0.00	0.000		100%	100%	0.00
	Nov	0.40	0.40	0.00	0.000		100%	100%	0.00
	Dec	0.49	0.49	0.00	0.000		100%	100%	0.00
2023	Jan	0.41	0.41	0.00	0.000		100%	100%	0.00
	Feb	0.44	0.44	0.00	0.000		100%	100%	0.00
	Mar	0.49	0.49	0.00	0.000		100%	100%	0.00
	Apr	0.49	0.49	0.00	0.000		100%	100%	0.00

	May	0.56	0.56	0.00	0.000		100%	100%	0.00
	Jun	0.65	0.65	0.00	0.000		100%	100%	0.00
	Jul	0.53	0.53	0.00	0.000		100%	100%	0.00
	Aug	0.55	0.55	0.00	0.000		100%	100%	0.00
	Sep	0.56	0.56	0.00	0.000		100%	100%	0.00
	Oct	0.52	0.52	0.00	0.000		100%	100%	0.00
	Nov	0.43	0.43	0.00	0.000		100%	100%	0.00
	Dec	0.52	0.52	0.00	0.000		100%	100%	0.00
2024	Jan	0.44	0.44	0.00	0.000		100%	100%	0.00
	Feb	0.47	0.47	0.00	0.000		100%	100%	0.00
	Mar	0.52	0.52	0.00	0.000		100%	100%	0.00
	Apr	0.52	0.52	0.00	0.000		100%	100%	0.00
	May	0.59	0.59	0.00	0.000		100%	100%	0.00
	Jun	0.70	0.70	0.00	0.000		100%	100%	0.00
	Jul	0.56	0.56	0.00	0.000		100%	100%	0.00
	Aug	0.58	0.58	0.00	0.000		100%	100%	0.00
	Sep	0.59	0.59	0.00	0.000		100%	100%	0.00
	Oct	0.55	0.55	0.00	0.000		100%	100%	0.00
	Nov	0.46	0.46	0.00	0.000		100%	100%	0.00
	Dec	0.55	0.55	0.00	0.000		100%	100%	0.00
2025	Jan	0.47	0.47	0.00	0.000		100%	100%	0.00
	Feb	0.50	0.50	0.00	0.000		100%	100%	0.00
	Mar	0.55	0.55	0.00	0.000		100%	100%	0.00
	Apr	0.56	0.56	0.00	0.000		100%	100%	0.00
	May	0.63	0.63	0.00	0.000		100%	100%	0.00
	Jun	0.74	0.74	0.00	0.000		100%	100%	0.00
	Jul	0.60	0.60	0.00	0.000		100%	100%	0.00
	Aug	0.62	0.62	0.00	0.000		100%	100%	0.00
	Sep	0.63	0.63	0.00	0.000		100%	100%	0.00
	Oct	0.59	0.59	0.00	0.000		100%	100%	0.00
	Nov	0.48	0.48	0.00	0.000		100%	100%	0.00
	Dec	0.58	0.58	0.00	0.000		100%	100%	0.00
2026	Jan	0.49	0.49	0.00	0.000		100%	100%	0.00

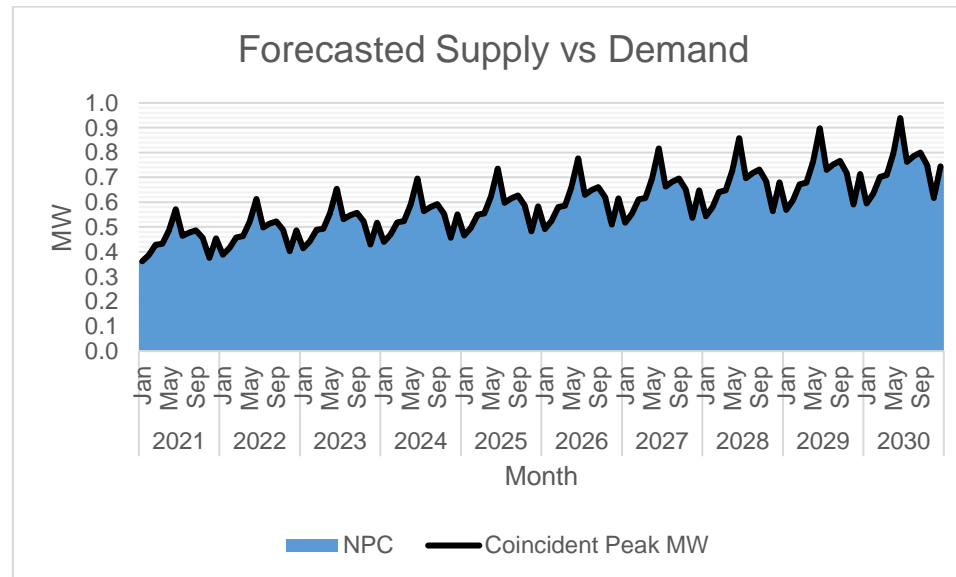
	Feb	0.53	0.53	0.00	0.000		100%	100%	0.00
	Mar	0.58	0.58	0.00	0.000		100%	100%	0.00
	Apr	0.59	0.59	0.00	0.000		100%	100%	0.00
	May	0.66	0.66	0.00	0.000		100%	100%	0.00
	Jun	0.78	0.78	0.00	0.000		100%	100%	0.00
	Jul	0.63	0.63	0.00	0.000		100%	100%	0.00
	Aug	0.65	0.65	0.00	0.000		100%	100%	0.00
	Sep	0.66	0.66	0.00	0.000		100%	100%	0.00
	Oct	0.62	0.62	0.00	0.000		100%	100%	0.00
	Nov	0.51	0.51	0.00	0.000		100%	100%	0.00
	Dec	0.62	0.62	0.00	0.000		100%	100%	0.00
2027	Jan	0.52	0.52	0.00	0.000		100%	100%	0.00
	Feb	0.55	0.55	0.00	0.000		100%	100%	0.00
	Mar	0.61	0.61	0.00	0.000		100%	100%	0.00
	Apr	0.62	0.62	0.00	0.000		100%	100%	0.00
	May	0.70	0.70	0.00	0.000		100%	100%	0.00
	Jun	0.82	0.82	0.00	0.000		100%	100%	0.00
	Jul	0.66	0.66	0.00	0.000		100%	100%	0.00
	Aug	0.68	0.68	0.00	0.000		100%	100%	0.00
	Sep	0.70	0.70	0.00	0.000		100%	100%	0.00
	Oct	0.65	0.65	0.00	0.000		100%	100%	0.00
	Nov	0.54	0.54	0.00	0.000		100%	100%	0.00
	Dec	0.65	0.65	0.00	0.000		100%	100%	0.00
2028	Jan	0.54	0.54	0.00	0.000		100%	100%	0.00
	Feb	0.58	0.58	0.00	0.000		100%	100%	0.00
	Mar	0.64	0.64	0.00	0.000		100%	100%	0.00
	Apr	0.65	0.65	0.00	0.000		100%	100%	0.00
	May	0.73	0.73	0.00	0.000		100%	100%	0.00
	Jun	0.86	0.86	0.00	0.000		100%	100%	0.00
	Jul	0.70	0.70	0.00	0.000		100%	100%	0.00
	Aug	0.72	0.72	0.00	0.000		100%	100%	0.00
	Sep	0.73	0.73	0.00	0.000		100%	100%	0.00
	Oct	0.69	0.69	0.00	0.000		100%	100%	0.00

	Nov	0.56	0.56	0.00	0.000		100%	100%	0.00
	Dec	0.68	0.68	0.00	0.000		100%	100%	0.00
2029	Jan	0.57	0.57	0.00	0.000		100%	100%	0.00
	Feb	0.61	0.61	0.00	0.000		100%	100%	0.00
	Mar	0.67	0.67	0.00	0.000		100%	100%	0.00
	Apr	0.68	0.68	0.00	0.000		100%	100%	0.00
	May	0.76	0.76	0.00	0.000		100%	100%	0.00
	Jun	0.90	0.90	0.00	0.000		100%	100%	0.00
	Jul	0.73	0.73	0.00	0.000		100%	100%	0.00
	Aug	0.75	0.75	0.00	0.000		100%	100%	0.00
	Sep	0.77	0.77	0.00	0.000		100%	100%	0.00
	Oct	0.72	0.72	0.00	0.000		100%	100%	0.00
	Nov	0.59	0.59	0.00	0.000		100%	100%	0.00
	Dec	0.71	0.71	0.00	0.000		100%	100%	0.00
2030	Jan	0.60	0.60	0.00	0.000		100%	100%	0.00
	Feb	0.64	0.64	0.00	0.000		100%	100%	0.00
	Mar	0.70	0.70	0.00	0.000		100%	100%	0.00
	Apr	0.71	0.71	0.00	0.000		100%	100%	0.00
	May	0.80	0.80	0.00	0.000		100%	100%	0.00
	Jun	0.94	0.94	0.00	0.000		100%	100%	0.00
	Jul	0.76	0.76	0.00	0.000		100%	100%	0.00
	Aug	0.79	0.79	0.00	0.000		100%	100%	0.00
	Sep	0.80	0.80	0.00	0.000		100%	100%	0.00
	Oct	0.75	0.75	0.00	0.000		100%	100%	0.00
	Nov	0.62	0.62	0.00	0.000		100%	100%	0.00
	Dec	0.75	0.75	0.00	0.000		100%	100%	0.00

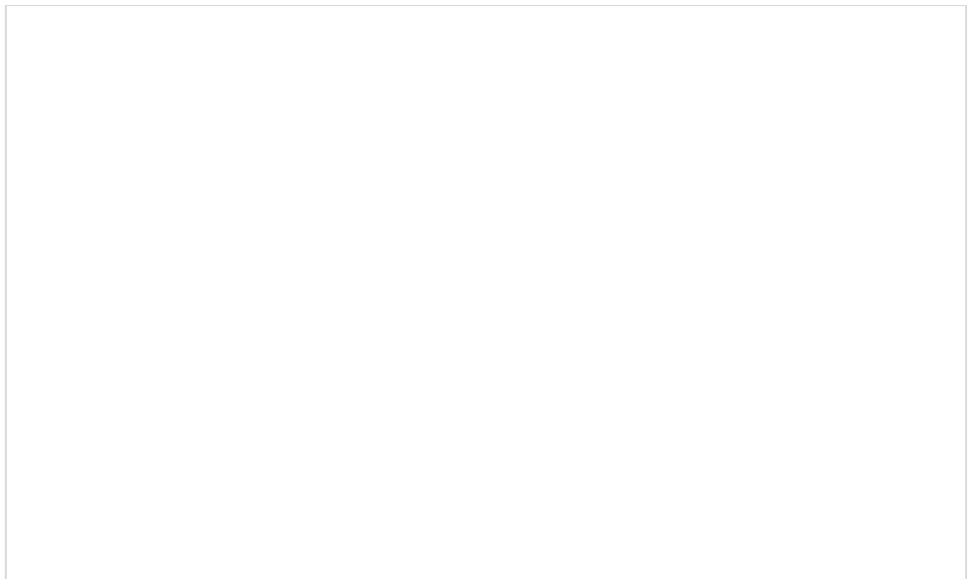
The Peak Demand was forecasted using 7-year historical data and was assumed to occur on the month of June due to celebration of municipal festival during the last week of May or first week of June. Monthly Peak Demand is at its lowest on the month of January due to decrease in consumption. In general, Peak Demand is expected to grow at a rate of 5.74% annually.



Of the available supply, the largest is 0.94 MW from June 2030. This is followed by 0.9 MW from June 2029.



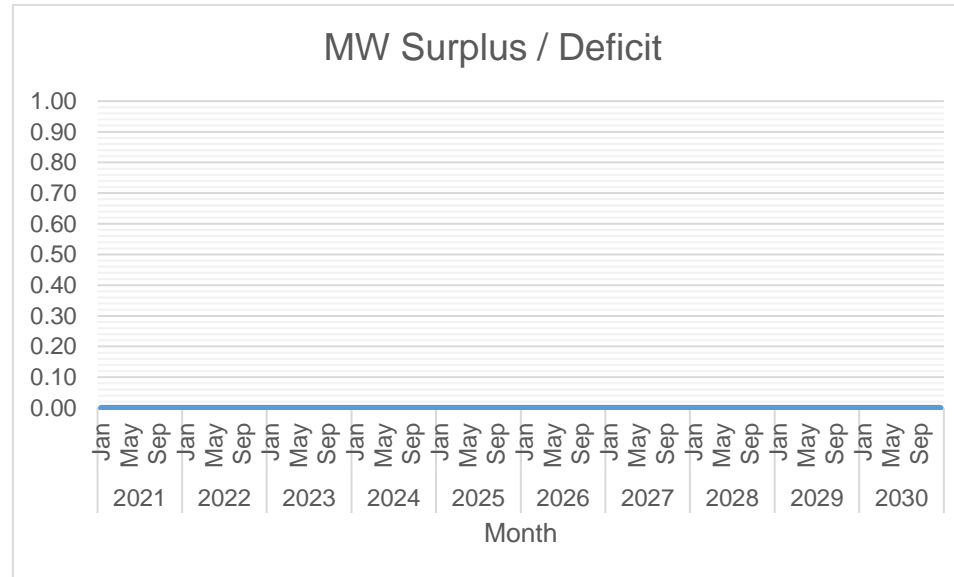
Of the available supply, the largest is ___ MW from ____. This is followed by ___ MW from ____.



The first wave of supply procurement will be for ___ MW planned to be available by the month of ____. This will be followed by ____.



Currently, there is [under-contacting/over-contacting] by ____%. The highest target contracting level is ____% which is expected to occur on ____.
 The lowest target contracting level is ____% which is expected to occur on ____.



Currently, there is [under-contacting/over-contracting] by ___ MW. The highest [surplus/deficit] is ___ MW which is expected to occur on the month of ___. The lowest [surplus/deficit] is ___ MW which is expected to occur on the month of ___.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2021	Jan	169	164	5	0.00%	3.06%
	Feb	166	161	5	0.00%	3.06%
	Mar	169	164	5	0.00%	3.06%
	Apr	206	200	6	0.00%	3.06%
	May	236	228	7	0.00%	3.06%
	Jun	255	247	8	0.00%	3.06%
	Jul	215	209	7	0.00%	3.06%
	Aug	216	210	7	0.00%	3.06%
	Sep	211	205	6	0.00%	3.06%
	Oct	225	219	7	0.00%	3.06%
	Nov	206	200	6	0.00%	3.06%
	Dec	188	182	6	0.00%	3.06%

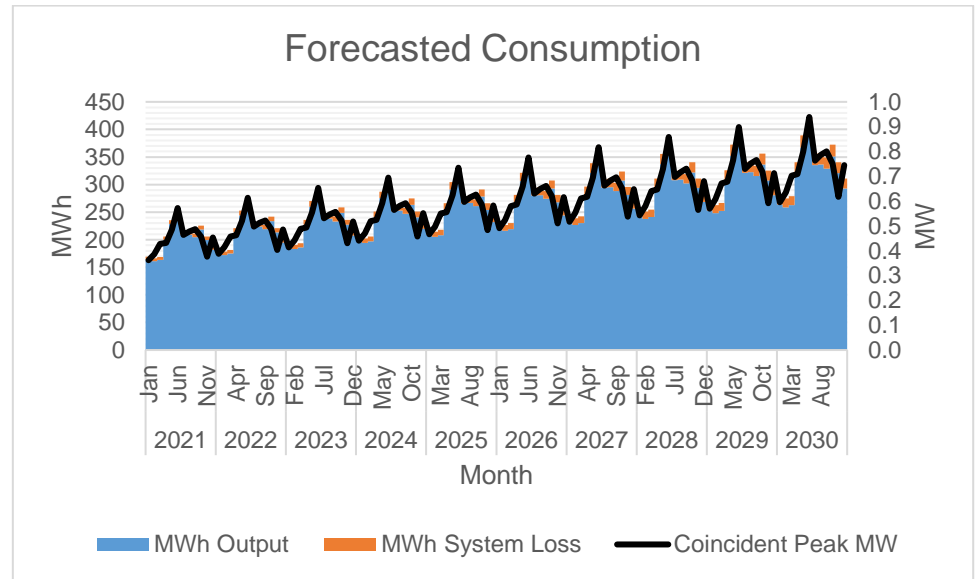
2022	Jan	182	176	6	0.00%	3.41%
	Feb	178	172	6	0.00%	3.41%
	Mar	181	175	6	0.00%	3.41%
	Apr	221	214	8	0.00%	3.41%
	May	253	244	9	0.00%	3.41%
	Jun	274	265	9	0.00%	3.41%
	Jul	231	223	8	0.00%	3.41%
	Aug	232	224	8	0.00%	3.41%
	Sep	227	219	8	0.00%	3.41%
	Oct	242	234	8	0.00%	3.41%
	Nov	221	213	8	0.00%	3.41%
	Dec	202	195	7	0.00%	3.41%
2023	Jan	194	187	7	0.00%	3.77%
	Feb	190	183	7	0.00%	3.77%
	Mar	194	186	7	0.00%	3.77%
	Apr	236	227	9	0.00%	3.77%
	May	270	260	10	0.00%	3.77%
	Jun	293	282	11	0.00%	3.77%
	Jul	247	238	9	0.00%	3.77%
	Aug	248	238	9	0.00%	3.77%
	Sep	242	233	9	0.00%	3.77%
	Oct	258	249	10	0.00%	3.77%
	Nov	236	227	9	0.00%	3.77%
	Dec	215	207	8	0.00%	3.77%
2024	Jan	207	198	8	0.00%	4.11%
	Feb	203	194	8	0.00%	4.11%
	Mar	206	197	8	0.00%	4.11%
	Apr	251	241	10	0.00%	4.11%
	May	287	275	12	0.00%	4.11%
	Jun	311	298	13	0.00%	4.11%
	Jul	263	252	11	0.00%	4.11%
	Aug	264	253	11	0.00%	4.11%
	Sep	258	247	11	0.00%	4.11%

	Oct	275	264	11	0.00%	4.11%
	Nov	251	241	10	0.00%	4.11%
	Dec	229	220	9	0.00%	4.11%
2025	Jan	219	209	10	0.00%	4.45%
	Feb	215	205	10	0.00%	4.45%
	Mar	218	208	10	0.00%	4.45%
	Apr	266	254	12	0.00%	4.45%
	May	304	291	14	0.00%	4.45%
	Jun	330	315	15	0.00%	4.45%
	Jul	278	266	12	0.00%	4.45%
	Aug	279	267	12	0.00%	4.45%
	Sep	273	261	12	0.00%	4.45%
	Oct	291	278	13	0.00%	4.45%
	Nov	266	254	12	0.00%	4.45%
	Dec	243	232	11	0.00%	4.45%
2026	Jan	231	220	11	0.00%	4.76%
	Feb	227	216	11	0.00%	4.76%
	Mar	230	219	11	0.00%	4.76%
	Apr	281	268	13	0.00%	4.76%
	May	322	306	15	0.00%	4.76%
	Jun	348	332	17	0.00%	4.76%
	Jul	294	280	14	0.00%	4.76%
	Aug	295	281	14	0.00%	4.76%
	Sep	288	275	14	0.00%	4.76%
	Oct	308	293	15	0.00%	4.76%
	Nov	281	268	13	0.00%	4.76%
	Dec	256	244	12	0.00%	4.76%
2027	Jan	244	231	12	0.00%	5.05%
	Feb	239	227	12	0.00%	5.05%
	Mar	243	230	12	0.00%	5.05%
	Apr	296	281	15	0.00%	5.05%
	May	339	322	17	0.00%	5.05%
	Jun	367	348	19	0.00%	5.05%

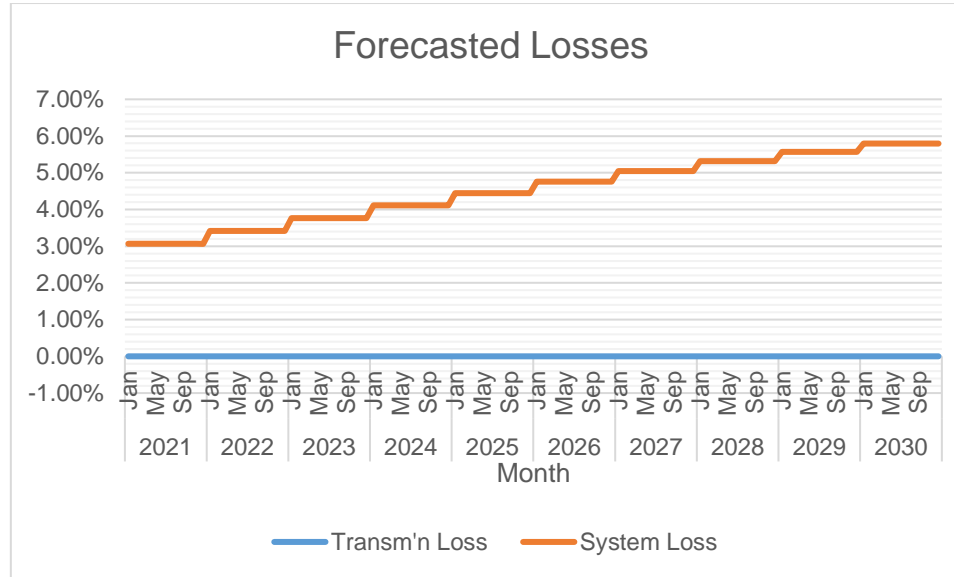
	Jul	309	294	16	0.00%	5.05%
	Aug	311	295	16	0.00%	5.05%
	Sep	304	288	15	0.00%	5.05%
	Oct	324	308	16	0.00%	5.05%
	Nov	296	281	15	0.00%	5.05%
	Dec	270	256	14	0.00%	5.05%
2028	Jan	256	242	14	0.00%	5.32%
	Feb	251	237	13	0.00%	5.32%
	Mar	255	241	14	0.00%	5.32%
	Apr	311	294	17	0.00%	5.32%
	May	356	337	19	0.00%	5.32%
	Jun	385	365	20	0.00%	5.32%
	Jul	325	308	17	0.00%	5.32%
	Aug	326	309	17	0.00%	5.32%
	Sep	319	302	17	0.00%	5.32%
	Oct	340	322	18	0.00%	5.32%
	Nov	311	294	17	0.00%	5.32%
	Dec	284	269	15	0.00%	5.32%
2029	Jan	268	253	15	0.00%	5.57%
	Feb	263	248	15	0.00%	5.57%
	Mar	267	252	15	0.00%	5.57%
	Apr	326	308	18	0.00%	5.57%
	May	373	352	21	0.00%	5.57%
	Jun	404	381	22	0.00%	5.57%
	Jul	341	322	19	0.00%	5.57%
	Aug	342	323	19	0.00%	5.57%
	Sep	334	315	19	0.00%	5.57%
	Oct	356	337	20	0.00%	5.57%
	Nov	326	308	18	0.00%	5.57%
	Dec	297	281	17	0.00%	5.57%
2030	Jan	280	264	16	0.00%	5.79%
	Feb	275	259	16	0.00%	5.79%
	Mar	279	263	16	0.00%	5.79%

	Apr	341	321	20	0.00%	5.79%
	May	389	367	23	0.00%	5.79%
	Jun	422	397	24	0.00%	5.79%
	Jul	356	335	21	0.00%	5.79%
	Aug	357	337	21	0.00%	5.79%
	Sep	349	329	20	0.00%	5.79%
	Oct	373	351	22	0.00%	5.79%
	Nov	340	321	20	0.00%	5.79%
	Dec	311	293	18	0.00%	5.79%

MWh Offtake was forecasted using 7-year historical data.



MWh Output was expected to grow at a rate of 7.2% annually.



Transmission Loss is expected to range from 0% to 0% while System Loss is expected to range from 3.06% to 5.79%.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
NPC	Base	National Power Corporation	1.00	8,760	12/26/2017	12/25/2022

ANTECO has PSA with NPC SPUG.

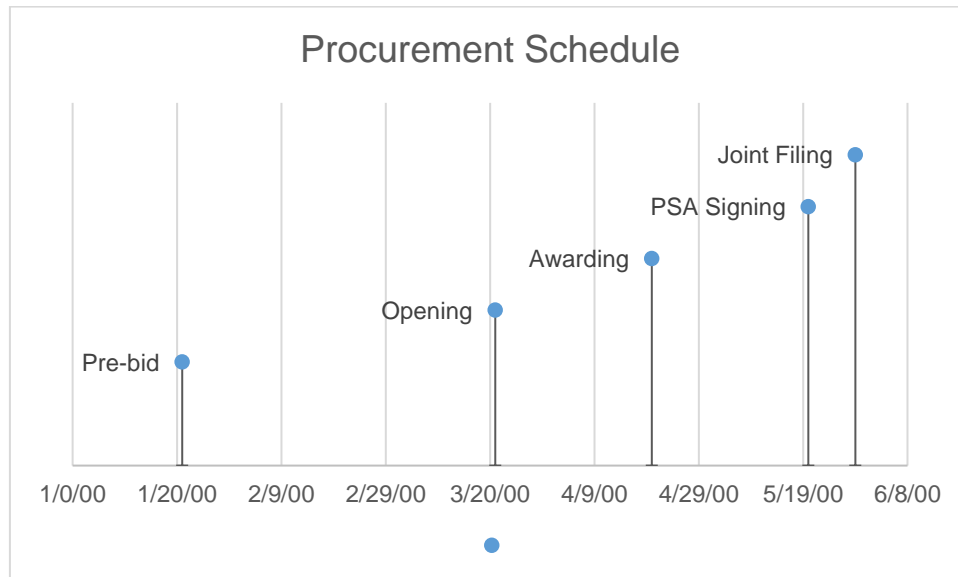
Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
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The PSA with ___ filed with ERC under Case No. ___ was procured through ___. It was selected to provide for [base/intermediate/peaking] requirements due to ___. Historically, the utilization of the PSA is ___%. Outages of the plant led to unserved energy of around ___ MWh in the past year. The actual billed overall monthly charge under the PSA ranged from ___ P/kWh to ___ P/KWh in the same period.

	NPC
Type	Base
Minimum MW	1.00
Minimum MWh/yr	8,760
PSA Start	12/26/2022
PSA End	12/25/2030
Publication	7/1/2022
Pre-bid	7/22/2022
Opening	9/20/2022
Awarding	10/20/2022
PSA Signing	11/19/2022
Joint Filing	11/28/2022

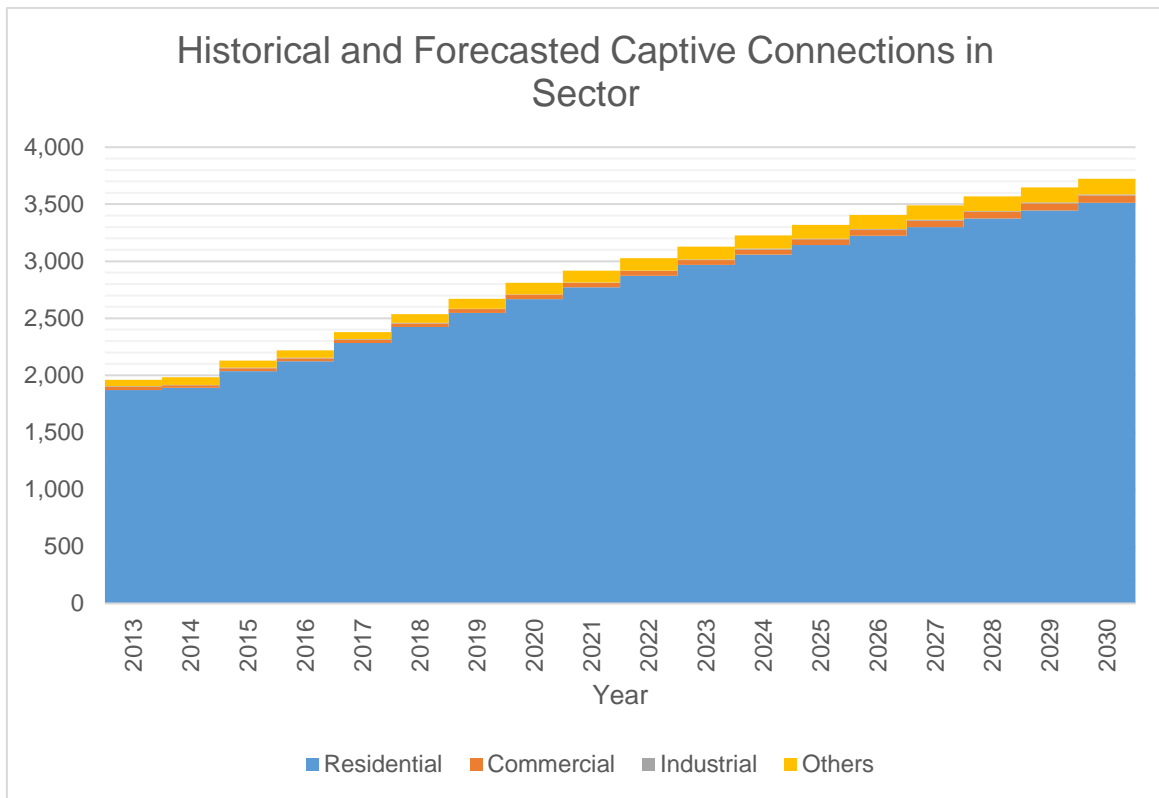
Type
Minimum MW
Minimum MWh/yr
PSA Start
PSA End
Publication

Pre-bid	21
Opening	81
Awarding	111
PSA Signing	141
Joint Filing	150



For the procurement of power supply requirement schedule on 2022.

Captive Customer Connections



The number of 2771 connections is expected to grow at a rate of 3.6% annually. Said customer class is expected to account for 80% of the total consumption.