

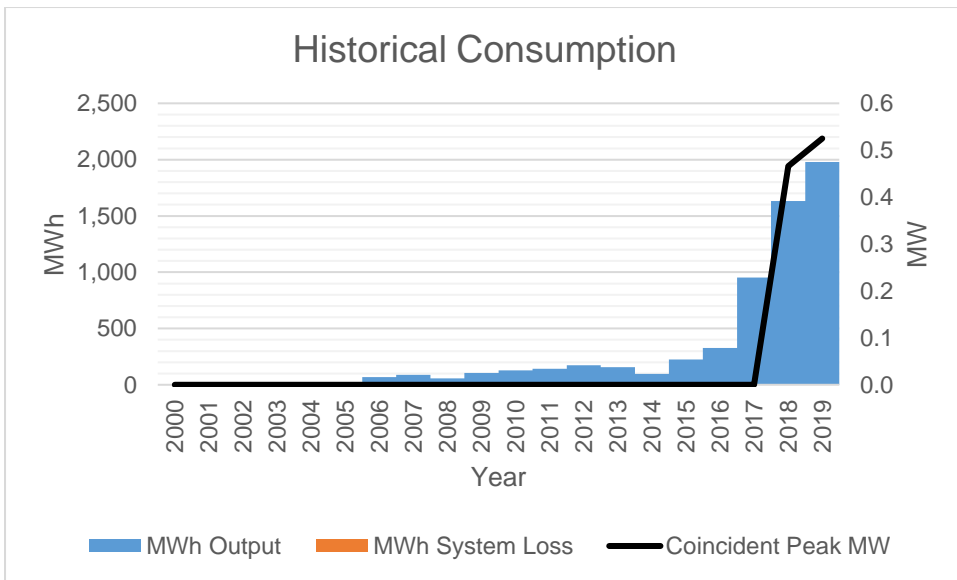
Power Supply Procurement Plan 2020

GIGANTES ISLAND

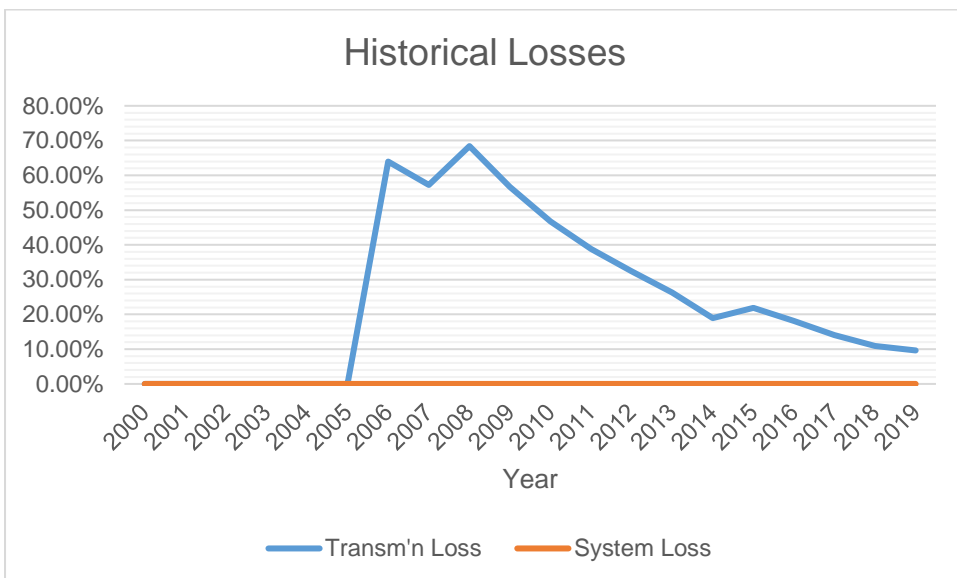
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2001	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2002	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2003	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2004	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2005	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2006	0.00	186	0	67	67	0	#DIV/0!	0.00%	63.98%	0.00%
2007	0.00	208	0	89	89	0	#DIV/0!	0.00%	57.21%	0.00%
2008	0.00	179	0	57	57	0	#DIV/0!	0.00%	68.41%	0.00%
2009	0.00	244	0	106	106	0	#DIV/0!	0.00%	56.64%	0.00%
2010	0.00	240	0	128	128	0	#DIV/0!	0.00%	46.74%	0.00%
2011	0.00	232	0	142	142	0	#DIV/0!	0.00%	38.78%	0.00%
2012	0.00	256	0	173	173	0	#DIV/0!	0.00%	32.39%	0.00%
2013	0.00	213	0	157	157	0	#DIV/0!	0.00%	26.34%	0.00%
2014	0.00	118	0	95	95	0	#DIV/0!	0.00%	18.96%	0.00%
2015	0.00	287	0	224	224	0	#DIV/0!	0.00%	21.91%	0.00%
2016	0.00	398	0	326	326	0	#DIV/0!	0.00%	18.11%	0.00%
2017	0.00	1,109	0	953	953	0	#DIV/0!	0.00%	14.02%	0.00%
2018	0.47	1,831	0	1,631	1,631	0	40%	0.00%	10.88%	0.00%
2019	0.53	2,191	0	1,980	1,980	0	43%	0.00%	9.66%	0.00%

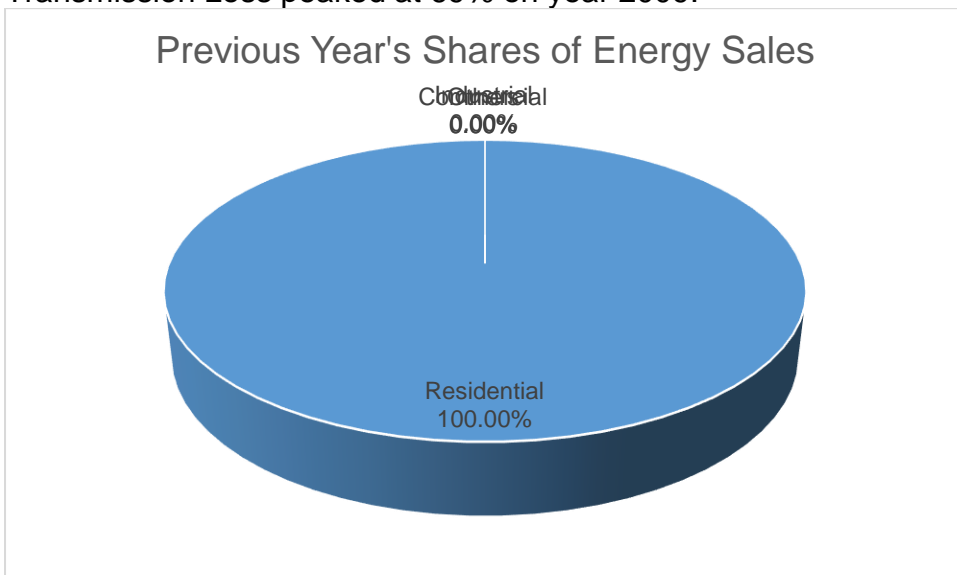
Peak Demand increased from 0.47 MW in 2018 to 0.53 MW in 2019 at a rate of 17% due to increase in sales. MWh Offtake increased from 1,831 MWh in 2018 to 2,191 MWh in 2019 at a rate of 19%. Within the same period, Load Factor ranged from 40% to 43%. There was an abrupt change in consumption on 2019 due to improvement in tourism.



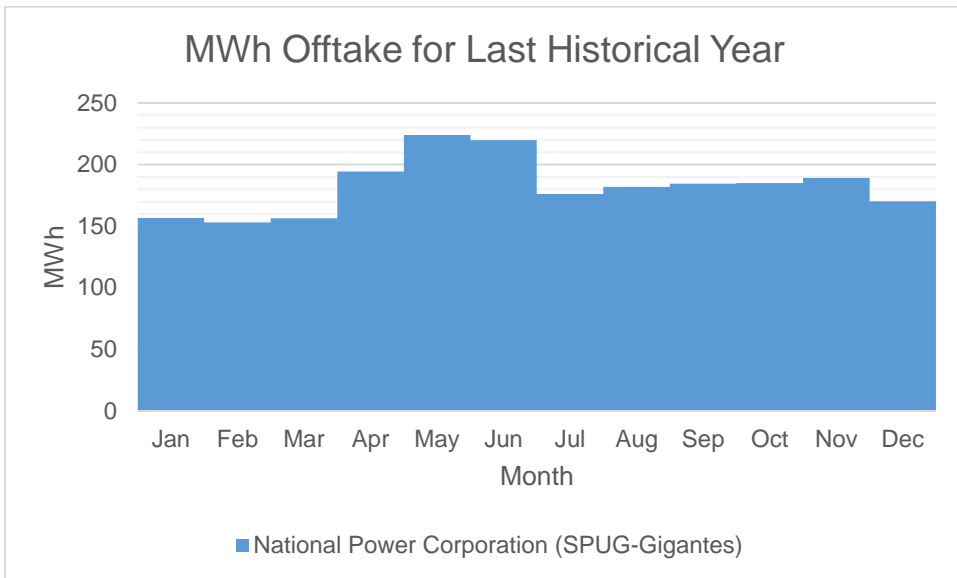
MWh Output increased from year 2018 to year 2019 at a rate of 21%, while MWh System Loss remained at a rate of 0% within the same period.



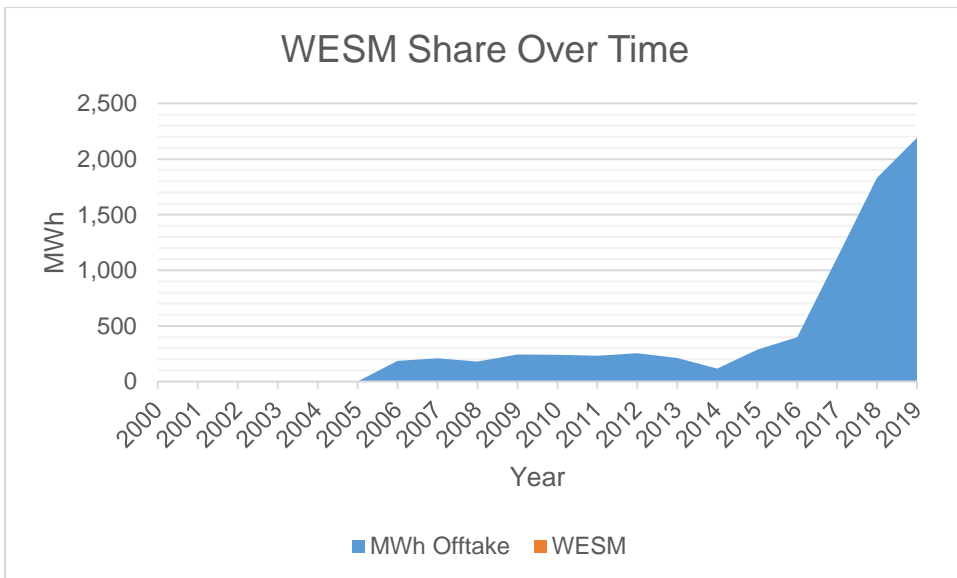
Historically, Transmission Loss ranged from 0% to 70% while System Loss remained at 0%. Transmission Loss peaked at 69% on year 2009.



Residential customers account for the bulk of energy sales at 100%.

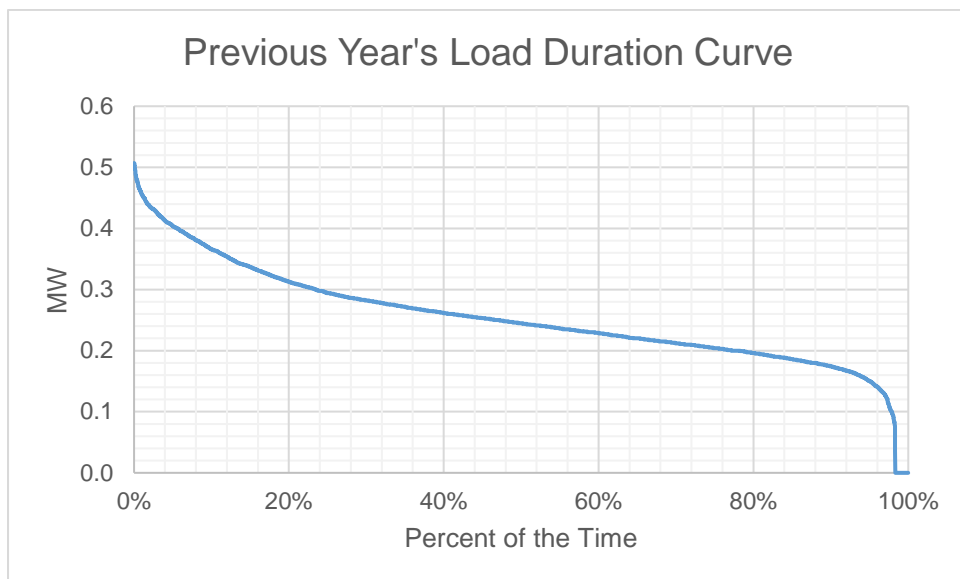


For 2019, the total Offtake for the last historical year is higher than the quantity stipulated in the PSA. The PSA with National Power Corporation accounts for the bulk of MWh Offtake.

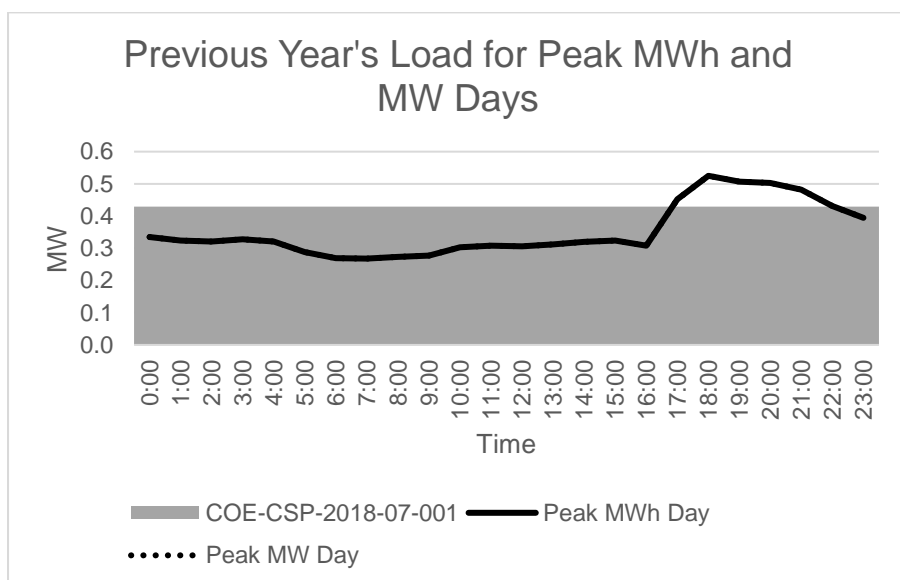


There is no WESM offtake.

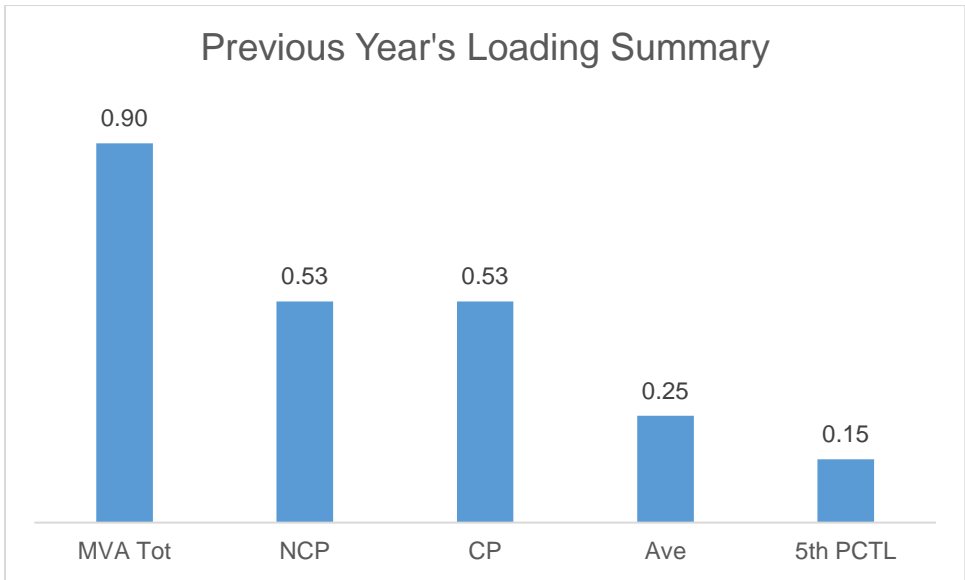
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 0 MW and the maximum load is 0.525 MW for the last historical year.



Peak MW occurred on May 18, 2019 due to summer season. Peak daily MWh occurred on May 2019. As shown in the Load Curves, the available supply is lower than the Peak Demand.



The Non-coincident Peak Demand is 0.53 MW, which is around 59% of the total substation capacity of 0.9 MVA. The load factor or the ratio between the Average Load of 0.25 MW and the Non-coincident Peak Demand is 47% of. A safe estimate of the true minimum load is the fifth percentile load of 0.15 MW which is 28% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
NPC-Spug (Gigantes)	0.9	0.525

There is no substations loaded at above 70%.

Forecasted Consumption Data

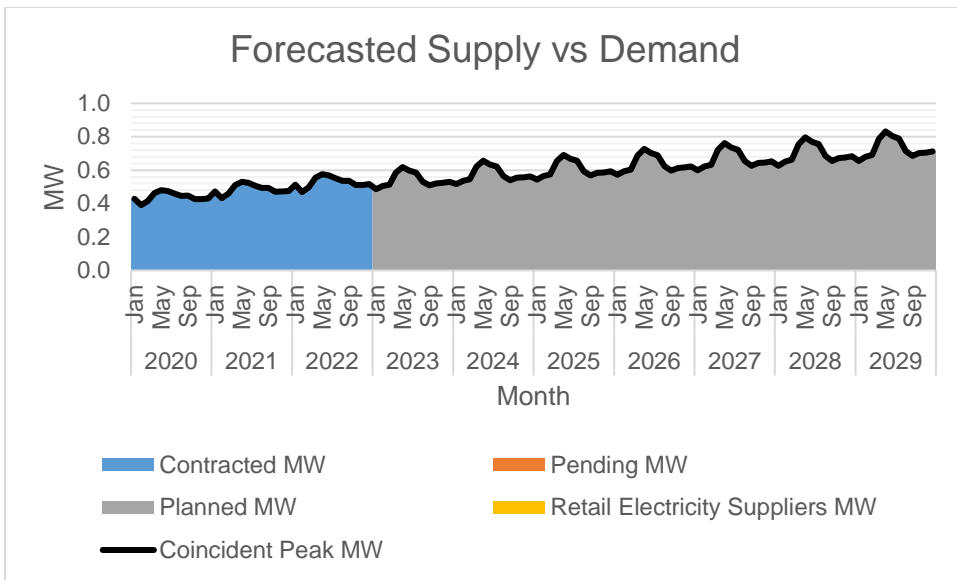
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2020	Jan	0.43	0.43	0.00	0.000		100%	100%	0.00
	Feb	0.39	0.39	0.00	0.000		100%	100%	0.00
	Mar	0.42	0.42	0.00	0.000		100%	100%	0.00
	Apr	0.46	0.46	0.00	0.000		100%	100%	0.00
	May	0.48	0.48	0.00	0.000		100%	100%	0.00
	Jun	0.48	0.48	0.00	0.000		100%	100%	0.00
	Jul	0.46	0.46	0.00	0.000		100%	100%	0.00
	Aug	0.45	0.45	0.00	0.000		100%	100%	0.00
	Sep	0.45	0.45	0.00	0.000		100%	100%	0.00
	Oct	0.43	0.43	0.00	0.000		100%	100%	0.00
	Nov	0.43	0.43	0.00	0.000		100%	100%	0.00
	Dec	0.43	0.43	0.00	0.000		100%	100%	0.00
2021	Jan	0.47	0.47	0.00	0.000		100%	100%	0.00
	Feb	0.43	0.43	0.00	0.000		100%	100%	0.00
	Mar	0.46	0.46	0.00	0.000		100%	100%	0.00
	Apr	0.51	0.51	0.00	0.000		100%	100%	0.00
	May	0.53	0.53	0.00	0.000		100%	100%	0.00
	Jun	0.53	0.53	0.00	0.000		100%	100%	0.00
	Jul	0.51	0.51	0.00	0.000		100%	100%	0.00
	Aug	0.49	0.49	0.00	0.000		100%	100%	0.00
	Sep	0.49	0.49	0.00	0.000		100%	100%	0.00
	Oct	0.47	0.47	0.00	0.000		100%	100%	0.00
	Nov	0.47	0.47	0.00	0.000		100%	100%	0.00
	Dec	0.48	0.48	0.00	0.000		100%	100%	0.00
2022	Jan	0.51	0.51	0.00	0.000		100%	100%	0.00
	Feb	0.47	0.47	0.00	0.000		100%	100%	0.00
	Mar	0.50	0.50	0.00	0.000		100%	100%	0.00

	Apr	0.56	0.56	0.00	0.000		100%	100%	0.00
	May	0.58	0.58	0.00	0.000		100%	100%	0.00
	Jun	0.57	0.57	0.00	0.000		100%	100%	0.00
	Jul	0.55	0.55	0.00	0.000		100%	100%	0.00
	Aug	0.54	0.54	0.00	0.000		100%	100%	0.00
	Sep	0.54	0.54	0.00	0.000		100%	100%	0.00
	Oct	0.51	0.51	0.00	0.000		100%	100%	0.00
	Nov	0.51	0.51	0.00	0.000		100%	100%	0.00
	Dec	0.52	0.52	0.00	0.000		100%	100%	0.00
2023	Jan	0.49	0.00	0.00	0.486		0%	100%	0.00
	Feb	0.50	0.00	0.00	0.505		0%	100%	0.00
	Mar	0.51	0.00	0.00	0.513		0%	100%	0.00
	Apr	0.59	0.00	0.00	0.585		0%	100%	0.00
	May	0.62	0.00	0.00	0.618		0%	100%	0.00
	Jun	0.60	0.00	0.00	0.597		0%	100%	0.00
	Jul	0.59	0.00	0.00	0.586		0%	100%	0.00
	Aug	0.53	0.00	0.00	0.531		0%	100%	0.00
	Sep	0.51	0.00	0.00	0.509		0%	100%	0.00
	Oct	0.52	0.00	0.00	0.521		0%	100%	0.00
	Nov	0.52	0.00	0.00	0.524		0%	100%	0.00
	Dec	0.53	0.00	0.00	0.530		0%	100%	0.00
2024	Jan	0.52	0.00	0.00	0.517		0%	100%	0.00
	Feb	0.54	0.00	0.00	0.537		0%	100%	0.00
	Mar	0.55	0.00	0.00	0.546		0%	100%	0.00
	Apr	0.62	0.00	0.00	0.622		0%	100%	0.00
	May	0.66	0.00	0.00	0.657		0%	100%	0.00
	Jun	0.63	0.00	0.00	0.634		0%	100%	0.00
	Jul	0.62	0.00	0.00	0.623		0%	100%	0.00
	Aug	0.56	0.00	0.00	0.564		0%	100%	0.00
	Sep	0.54	0.00	0.00	0.541		0%	100%	0.00
	Oct	0.55	0.00	0.00	0.554		0%	100%	0.00
	Nov	0.56	0.00	0.00	0.557		0%	100%	0.00
	Dec	0.56	0.00	0.00	0.563		0%	100%	0.00

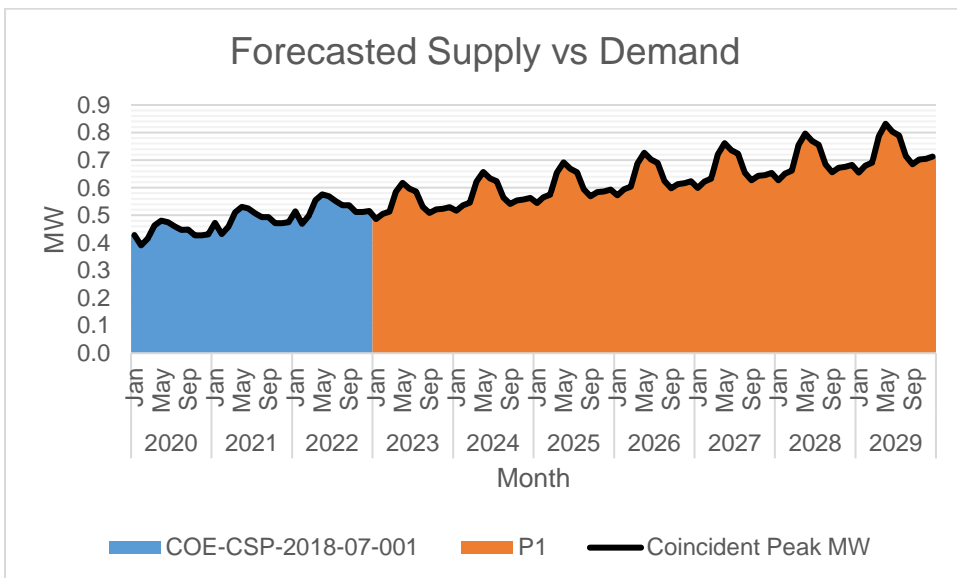
2025	Jan	0.54	0.00	0.00	0.544		0%	100%	0.00
	Feb	0.57	0.00	0.00	0.565		0%	100%	0.00
	Mar	0.57	0.00	0.00	0.575		0%	100%	0.00
	Apr	0.66	0.00	0.00	0.655		0%	100%	0.00
	May	0.69	0.00	0.00	0.692		0%	100%	0.00
	Jun	0.67	0.00	0.00	0.668		0%	100%	0.00
	Jul	0.66	0.00	0.00	0.656		0%	100%	0.00
	Aug	0.59	0.00	0.00	0.594		0%	100%	0.00
	Sep	0.57	0.00	0.00	0.569		0%	100%	0.00
	Oct	0.58	0.00	0.00	0.584		0%	100%	0.00
	Nov	0.59	0.00	0.00	0.587		0%	100%	0.00
	Dec	0.59	0.00	0.00	0.593		0%	100%	0.00
2026	Jan	0.57	0.00	0.00	0.572		0%	100%	0.00
	Feb	0.59	0.00	0.00	0.594		0%	100%	0.00
	Mar	0.60	0.00	0.00	0.604		0%	100%	0.00
	Apr	0.69	0.00	0.00	0.688		0%	100%	0.00
	May	0.73	0.00	0.00	0.727		0%	100%	0.00
	Jun	0.70	0.00	0.00	0.702		0%	100%	0.00
	Jul	0.69	0.00	0.00	0.690		0%	100%	0.00
	Aug	0.62	0.00	0.00	0.625		0%	100%	0.00
	Sep	0.60	0.00	0.00	0.598		0%	100%	0.00
	Oct	0.61	0.00	0.00	0.613		0%	100%	0.00
	Nov	0.62	0.00	0.00	0.616		0%	100%	0.00
	Dec	0.62	0.00	0.00	0.623		0%	100%	0.00
2027	Jan	0.60	0.00	0.00	0.599		0%	100%	0.00
	Feb	0.62	0.00	0.00	0.623		0%	100%	0.00
	Mar	0.63	0.00	0.00	0.633		0%	100%	0.00
	Apr	0.72	0.00	0.00	0.721		0%	100%	0.00
	May	0.76	0.00	0.00	0.762		0%	100%	0.00
	Jun	0.74	0.00	0.00	0.736		0%	100%	0.00
	Jul	0.72	0.00	0.00	0.723		0%	100%	0.00
	Aug	0.65	0.00	0.00	0.655		0%	100%	0.00
	Sep	0.63	0.00	0.00	0.627		0%	100%	0.00

	Oct	0.64	0.00	0.00	0.643		0%	100%	0.00
	Nov	0.65	0.00	0.00	0.646		0%	100%	0.00
	Dec	0.65	0.00	0.00	0.653		0%	100%	0.00
2028	Jan	0.63	0.00	0.00	0.627		0%	100%	0.00
	Feb	0.65	0.00	0.00	0.651		0%	100%	0.00
	Mar	0.66	0.00	0.00	0.662		0%	100%	0.00
	Apr	0.75	0.00	0.00	0.754		0%	100%	0.00
	May	0.80	0.00	0.00	0.797		0%	100%	0.00
	Jun	0.77	0.00	0.00	0.770		0%	100%	0.00
	Jul	0.76	0.00	0.00	0.756		0%	100%	0.00
	Aug	0.68	0.00	0.00	0.685		0%	100%	0.00
	Sep	0.66	0.00	0.00	0.656		0%	100%	0.00
	Oct	0.67	0.00	0.00	0.673		0%	100%	0.00
	Nov	0.68	0.00	0.00	0.676		0%	100%	0.00
	Dec	0.68	0.00	0.00	0.683		0%	100%	0.00
2029	Jan	0.65	0.00	0.00	0.655		0%	100%	0.00
	Feb	0.68	0.00	0.00	0.680		0%	100%	0.00
	Mar	0.69	0.00	0.00	0.691		0%	100%	0.00
	Apr	0.79	0.00	0.00	0.788		0%	100%	0.00
	May	0.83	0.00	0.00	0.832		0%	100%	0.00
	Jun	0.80	0.00	0.00	0.803		0%	100%	0.00
	Jul	0.79	0.00	0.00	0.789		0%	100%	0.00
	Aug	0.71	0.00	0.00	0.715		0%	100%	0.00
	Sep	0.68	0.00	0.00	0.685		0%	100%	0.00
	Oct	0.70	0.00	0.00	0.702		0%	100%	0.00
	Nov	0.71	0.00	0.00	0.705		0%	100%	0.00
	Dec	0.71	0.00	0.00	0.713		0%	100%	0.00

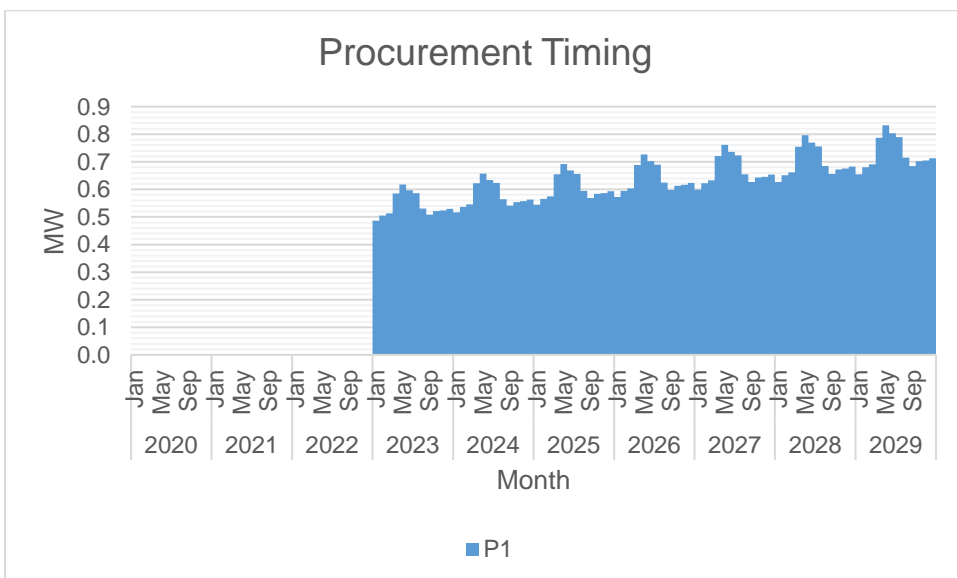
The Peak Demand was assumed to occur on the month of May due to summer season. Monthly Peak Demand is at its lowest on the month of February due to cold weather. In general, Peak Demand is expected to grow at a rate of 6% annually.



The available supply is generally within the Peak Demand.



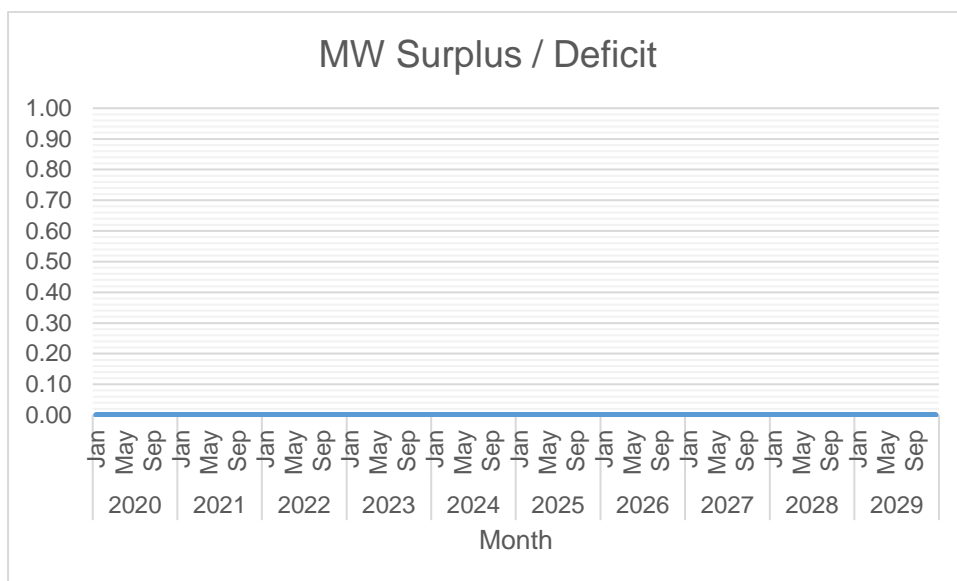
Of the available supply, the largest is 0.525 MW from National Power Corporation.



The first wave of supply procurement will be for 0.62 MW planned to be available by the month of January 2023.



Currently, there is [under-contacting/over-contacting] by 21.93%. The target contracting level is 100% which is expected to occur on January 2023.



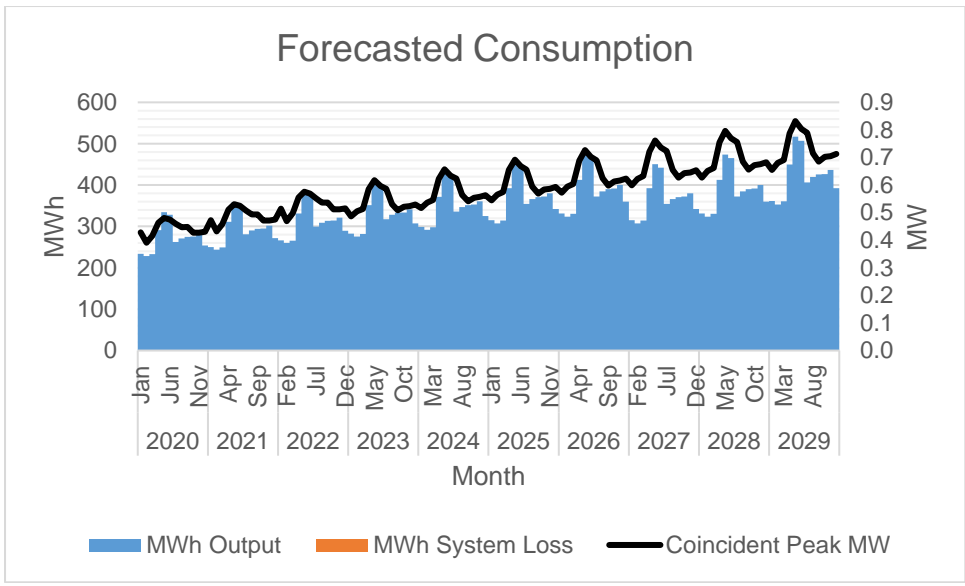
Currently, there is no under-contacting or over-contacting.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2020	Jan	207	234	0	-12.75%	0.00%
	Feb	189	228	0	-20.58%	0.00%
	Mar	188	233	0	-23.93%	0.00%
	Apr	224	291	0	-29.87%	0.00%
	May	225	334	0	-48.43%	0.00%
	Jun	230	328	0	-42.69%	0.00%
	Jul	215	263	0	-22.03%	0.00%
	Aug	216	271	0	-25.43%	0.00%
	Sep	217	275	0	-26.96%	0.00%
	Oct	200	276	0	-38.09%	0.00%

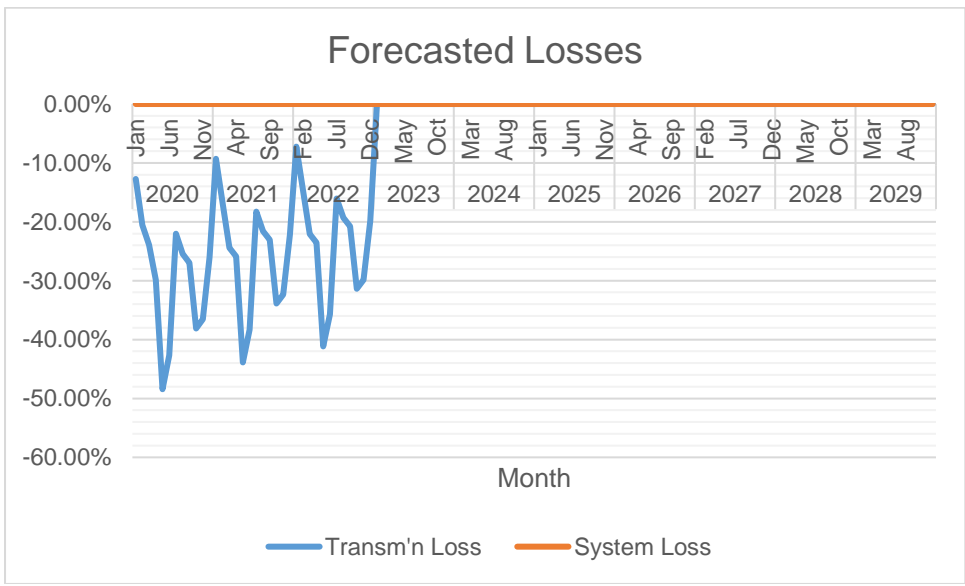
	Nov	207	282	0	-36.54%	0.00%
	Dec	202	254	0	-26.02%	0.00%
2021	Jan	229	250	0	-9.30%	0.00%
	Feb	209	244	0	-16.89%	0.00%
	Mar	200	249	0	-24.43%	0.00%
	Apr	247	311	0	-25.90%	0.00%
	May	249	358	0	-43.90%	0.00%
	Jun	254	351	0	-38.33%	0.00%
	Jul	238	281	0	-18.30%	0.00%
	Aug	239	290	0	-21.59%	0.00%
	Sep	239	294	0	-23.08%	0.00%
	Oct	221	295	0	-33.87%	0.00%
	Nov	228	302	0	-32.36%	0.00%
	Dec	222	272	0	-22.16%	0.00%
2022	Jan	248	266	0	-7.24%	0.00%
	Feb	227	260	0	-14.69%	0.00%
	Mar	217	266	0	-22.09%	0.00%
	Apr	268	331	0	-23.53%	0.00%
	May	270	381	0	-41.19%	0.00%
	Jun	275	374	0	-35.73%	0.00%
	Jul	258	299	0	-16.07%	0.00%
	Aug	259	309	0	-19.30%	0.00%
	Sep	260	313	0	-20.76%	0.00%
	Oct	239	314	0	-31.35%	0.00%
	Nov	248	322	0	-29.87%	0.00%
	Dec	241	289	0	-19.86%	0.00%
2023	Jan	283	283	0	0.00%	0.00%
	Feb	276	276	0	0.00%	0.00%
	Mar	282	282	0	0.00%	0.00%
	Apr	352	352	0	0.00%	0.00%
	May	404	404	0	0.00%	0.00%
	Jun	397	397	0	0.00%	0.00%
	Jul	318	318	0	0.00%	0.00%
	Aug	328	328	0	0.00%	0.00%
	Sep	333	333	0	0.00%	0.00%
	Oct	334	334	0	0.00%	0.00%
	Nov	341	341	0	0.00%	0.00%
	Dec	307	307	0	0.00%	0.00%
2024	Jan	299	299	0	0.00%	0.00%
	Feb	292	292	0	0.00%	0.00%
	Mar	298	298	0	0.00%	0.00%
	Apr	372	372	0	0.00%	0.00%
	May	427	427	0	0.00%	0.00%
	Jun	419	419	0	0.00%	0.00%
	Jul	336	336	0	0.00%	0.00%
	Aug	347	347	0	0.00%	0.00%
	Sep	352	352	0	0.00%	0.00%
	Oct	353	353	0	0.00%	0.00%
	Nov	361	361	0	0.00%	0.00%

	Dec	325	325	0	0.00%	0.00%
2025	Jan	315	315	0	0.00%	0.00%
	Feb	308	308	0	0.00%	0.00%
	Mar	314	314	0	0.00%	0.00%
	Apr	392	392	0	0.00%	0.00%
	May	451	451	0	0.00%	0.00%
	Jun	442	442	0	0.00%	0.00%
	Jul	354	354	0	0.00%	0.00%
	Aug	366	366	0	0.00%	0.00%
	Sep	371	371	0	0.00%	0.00%
	Oct	372	372	0	0.00%	0.00%
	Nov	380	380	0	0.00%	0.00%
	Dec	342	342	0	0.00%	0.00%
2026	Jan	331	331	0	0.00%	0.00%
	Feb	324	324	0	0.00%	0.00%
	Mar	330	330	0	0.00%	0.00%
	Apr	412	412	0	0.00%	0.00%
	May	474	474	0	0.00%	0.00%
	Jun	465	465	0	0.00%	0.00%
	Jul	373	373	0	0.00%	0.00%
	Aug	385	385	0	0.00%	0.00%
	Sep	390	390	0	0.00%	0.00%
	Oct	391	391	0	0.00%	0.00%
	Nov	400	400	0	0.00%	0.00%
	Dec	360	360	0	0.00%	0.00%
2027	Jan	315	315	0	0.00%	0.00%
	Feb	308	308	0	0.00%	0.00%
	Mar	314	314	0	0.00%	0.00%
	Apr	392	392	0	0.00%	0.00%
	May	451	451	0	0.00%	0.00%
	Jun	442	442	0	0.00%	0.00%
	Jul	354	354	0	0.00%	0.00%
	Aug	366	366	0	0.00%	0.00%
	Sep	371	371	0	0.00%	0.00%
	Oct	372	372	0	0.00%	0.00%
	Nov	380	380	0	0.00%	0.00%
	Dec	342	342	0	0.00%	0.00%
2028	Jan	331	331	0	0.00%	0.00%
	Feb	324	324	0	0.00%	0.00%
	Mar	330	330	0	0.00%	0.00%
	Apr	412	412	0	0.00%	0.00%
	May	474	474	0	0.00%	0.00%
	Jun	465	465	0	0.00%	0.00%
	Jul	373	373	0	0.00%	0.00%
	Aug	385	385	0	0.00%	0.00%
	Sep	390	390	0	0.00%	0.00%
	Oct	391	391	0	0.00%	0.00%
	Nov	400	400	0	0.00%	0.00%
	Dec	360	360	0	0.00%	0.00%

2029	Jan	361	361	0	0.00%	0.00%
	Feb	353	353	0	0.00%	0.00%
	Mar	360	360	0	0.00%	0.00%
	Apr	450	450	0	0.00%	0.00%
	May	517	517	0	0.00%	0.00%
	Jun	507	507	0	0.00%	0.00%
	Jul	406	406	0	0.00%	0.00%
	Aug	420	420	0	0.00%	0.00%
	Sep	425	425	0	0.00%	0.00%
	Oct	427	427	0	0.00%	0.00%
	Nov	436	436	0	0.00%	0.00%
	Dec	393	393	0	0.00%	0.00%



MWh Output was expected to grow at an average rate of 5% annually.



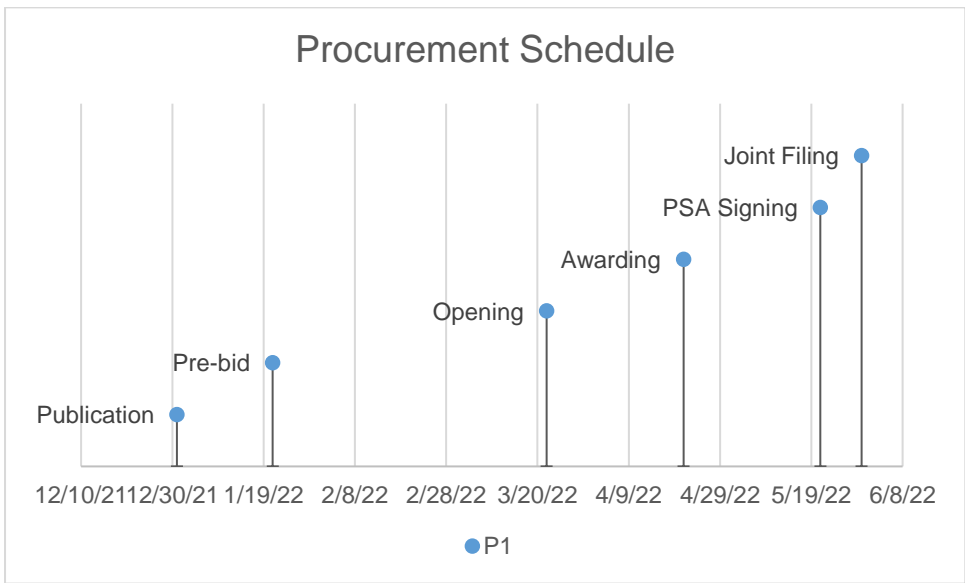
Transmission Loss is expected to range from -49% to 0% while System Loss is expected to be 0%.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
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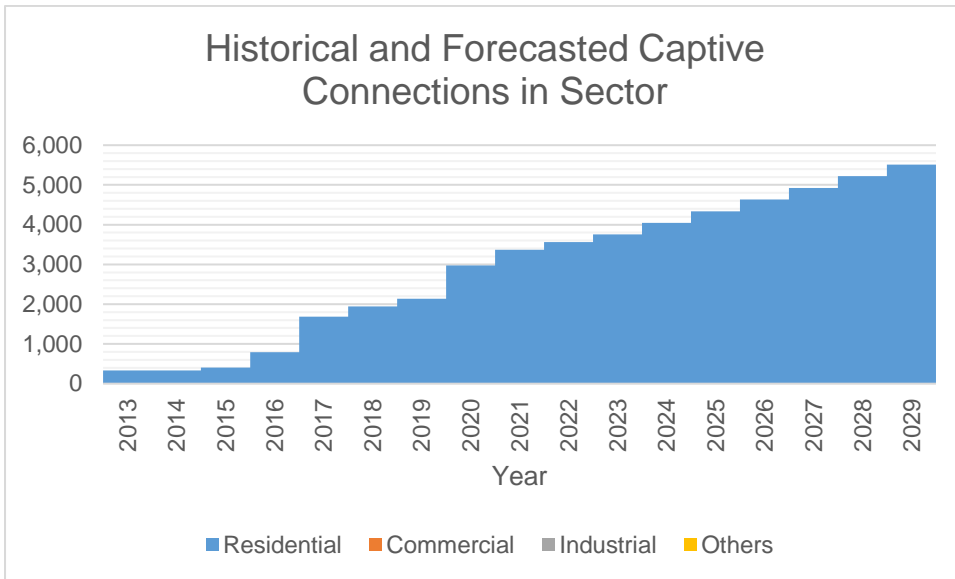
The PSA with National Power Corporation (NPC) filed with DOE under COE-CSP-2018-07-001. It was selected to provide for requirements. Historically, the utilization of the PSA is 100%. Outages of the plant led to unserved energy of around 37.583 MWh in the past year. The actual billed overall monthly charge under the PSA ranged is 5.6404P/kWh.

	P1
Type	Base
Minimum MW	0.62
Minimum MWh/yr	3,953
PSA Start	12/26/2022
PSA End	12/25/2029
Publication	12/31/2021
Pre-bid	1/21/2022
Opening	3/22/2022
Awarding	4/21/2022
PSA Signing	5/21/2022
Joint Filing	5/30/2022



For the procurement of 0.62 MW of supply which is planned to be available on December 26, 2022, the first publication or launch of CSP will be on December 31, 2021. Joint filing is planned on May 30, 2022, or 150 days later, in accordance with DOE’s 2018 CSP Policy.

Captive Customer Connections



The number of Residential connections is expected to grow at an average rate of 6% annually. Said customer class is expected to account for 100% of the total consumption.