



# **Power Supply Procurement Plan [2024]**

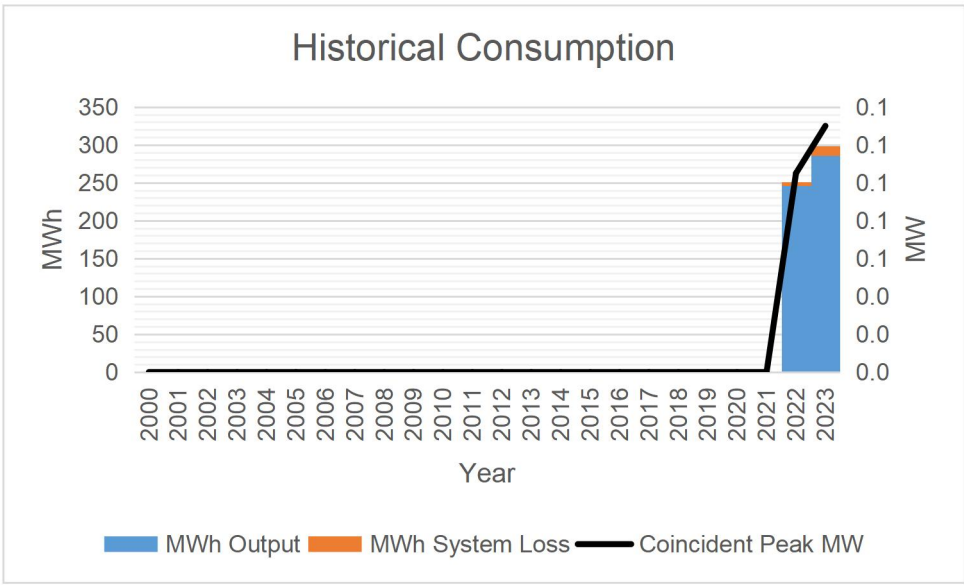
**[BASELCO]**

**[PILAS ISLAND]**

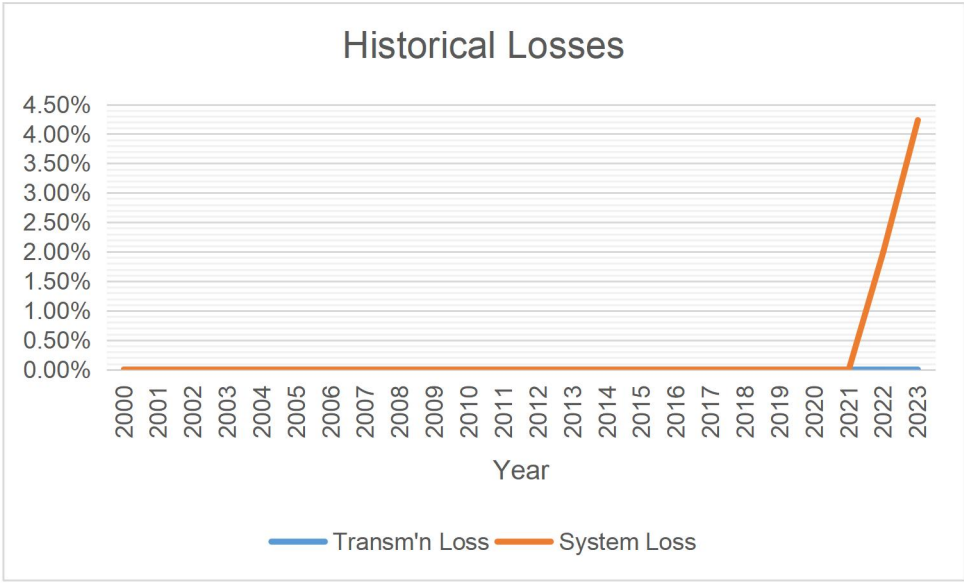
## Historical Consumption Data

	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	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2007	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2008	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2009	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2010	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2011	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2012	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2013	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2014	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2015	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2016	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2017	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2018	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2019	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2020	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2021	0.00	0	0	0	0	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
2022	0.11	254	0	254	246	5	28%	-1.01%	0.00%	2.00%
2023	0.13	299	0	299	286	13	26%	0.00%	0.00%	4.23%

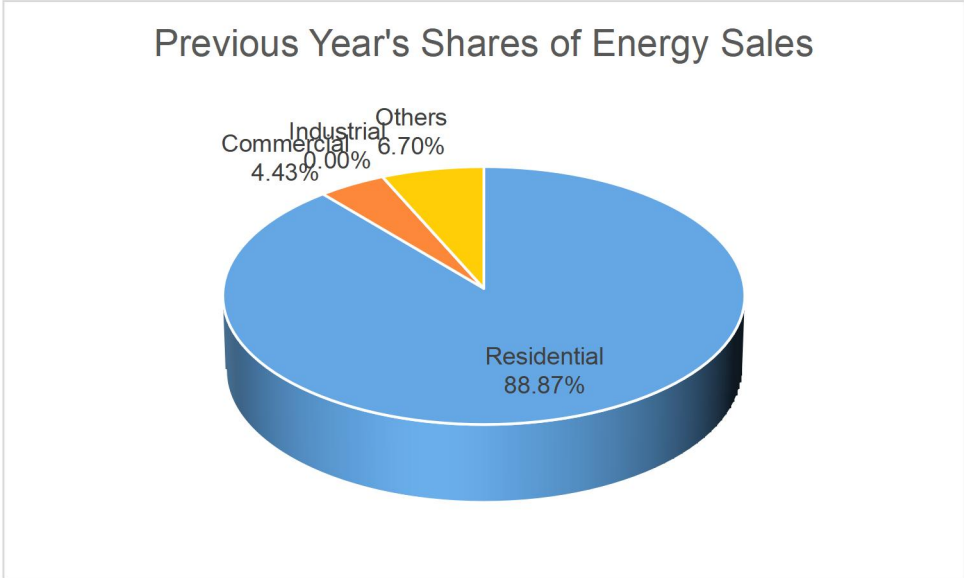
Peak Demand increased from .11 MW in 2022 to .13 MW in 2023 at an average annual rate of 15.38 % due to increase of number of hours operating from 8hrs to 12hrs. MWh Offtake increased from 254 MWh in 2022 to 299 MWh in 2023 at an average annual rate of 17.72% due to increase of number of hours . Within the same period, Load Factor ranged from 26% to 28%.



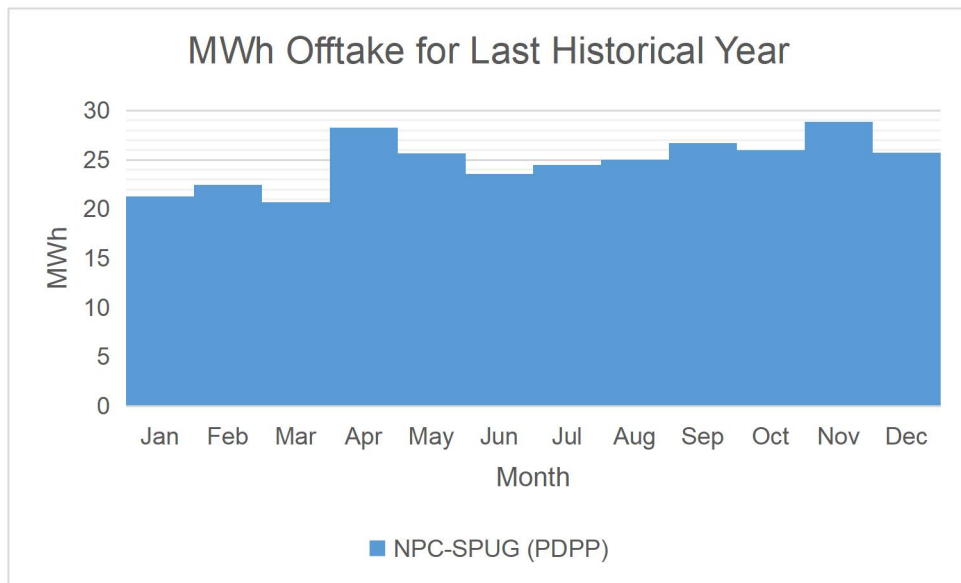
MWh Output increased from year 2022 to year 2023 at a rate of 17.72%, while MWh System Loss increased at a rate of 160% within the same period.



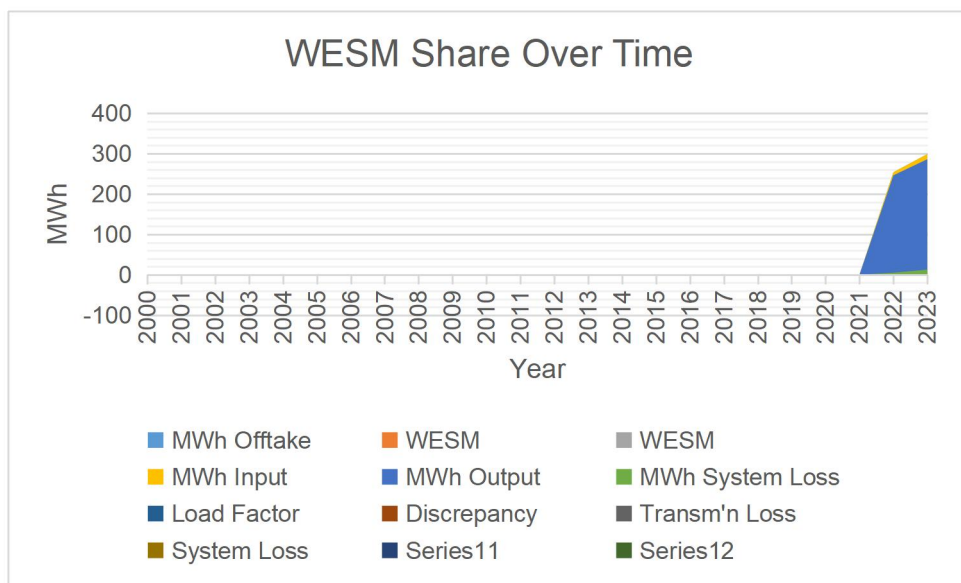
Historically, System Loss ranged from 2% to 4.23. System Loss peaked at 4.23% on year 2023 due to extension of distribution line.



Residential customers account for the bulk of energy sales at 88.87% due to the high number of connections. In contrast, Commercial customers accounted for only 4.43% of energy sales due to the low number of connections.

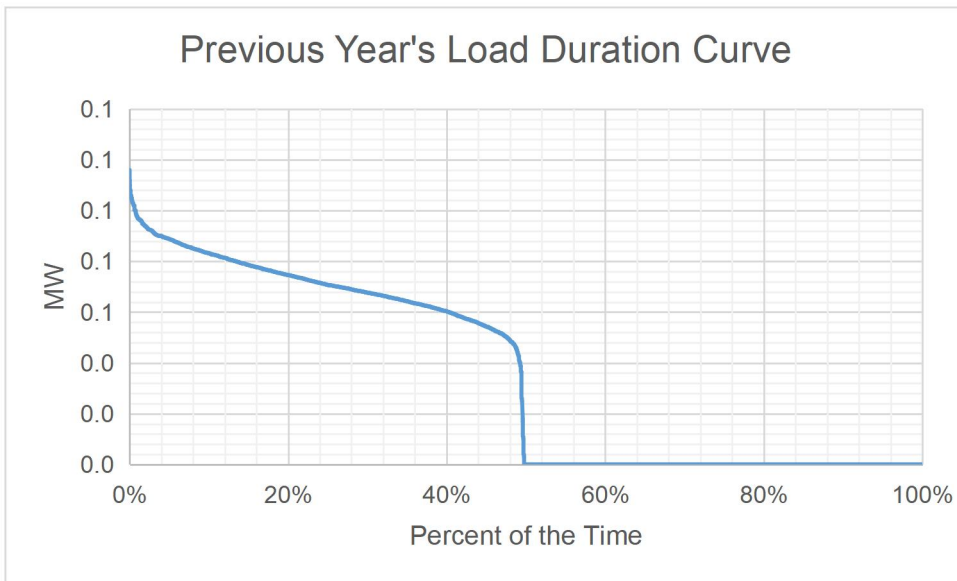


For 2023, the total Offtake for the last historical year is [lower] than the quantity stipulated in the PSA. The PSA with 708.22 accounts for the bulk of MWh Offtake.

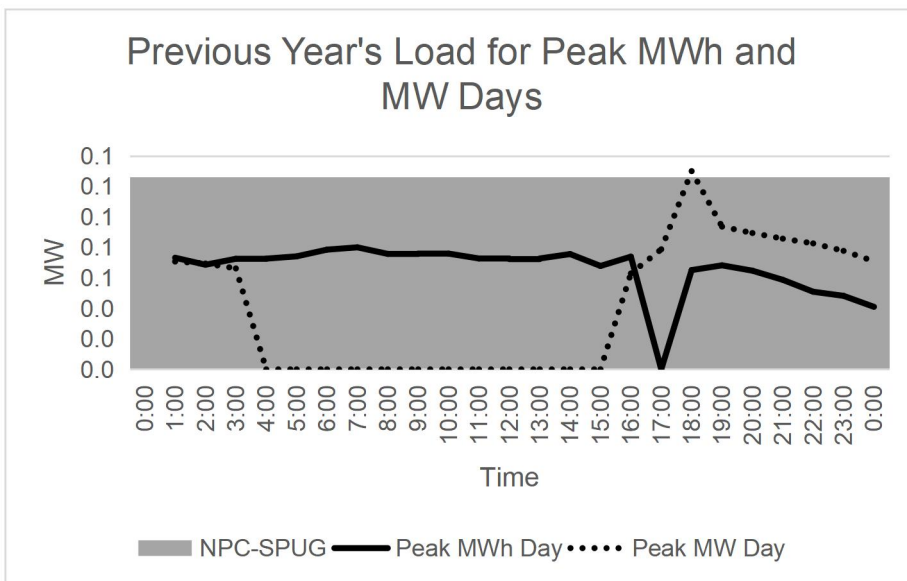


MWh Offtake increased from 254 MWh in 2022 to 299 MWh in 2023 at an average annual rate of 17.72

## Previous Year's Load Profile

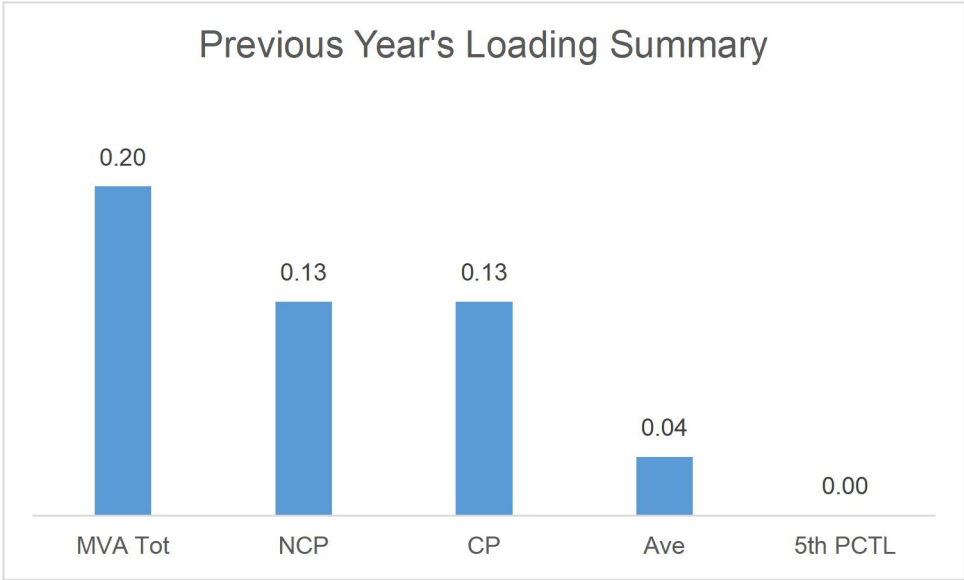


Based on the Load Duration Curve, the minimum load is .001 MW and the maximum load is .13 MW for the last historical year. The 0 MW on our Load Profile Because of the 12hours per day.



Peak MW occurred on 19:00 due to increase of the usage. Majority of the connected household are residential which are very active in this time. Daily MWh peak demand occurred on 19:00 due to Number of Residential loads rise.

### Previous Year's Loading Summary



The Non-coincident Peak Demand is .13 MW, which is around 67.71 % of the total substation capacity of .2 MVA at a power factor of .96%. The load factor or the ratio between the Average Load of .04 MW and the Non-coincident Peak Demand is 30.76% of.

Metering Point	Substation MVA	Substation Peak MW
PDPP	0.2	0.130

The substations loaded at above 70%. This loading problem will be solved by installing additional load capacity of the NPC

## 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
2024	Jan	0.12	0.13	0.00	0.000		103%	103%	0.00
	Feb	0.13	0.13	0.00	0.000		103%	103%	0.00
	Mar	0.13	0.13	0.00	0.000		103%	103%	0.00
	Apr	0.12	0.13	0.00	0.000		103%	103%	0.00
	May	0.13	0.13	0.00	0.000		103%	103%	0.00
	Jun	0.13	0.13	0.00	0.000		103%	103%	0.00
	Jul	0.13	0.13	0.00	0.000		103%	103%	0.00
	Aug	0.13	0.13	0.00	0.000		103%	103%	0.00
	Sep	0.13	0.13	0.00	0.000		103%	103%	0.00
	Oct	0.13	0.13	0.00	0.000		103%	103%	0.00
	Nov	0.13	0.13	0.00	0.000		101%	101%	0.00
	Dec	0.13	0.00	0.13	0.000		0%	100%	0.00
2025	Jan	0.13	0.00	0.13	0.000		0%	100%	0.00
	Feb	0.13	0.00	0.13	0.000		0%	100%	0.00
	Mar	0.13	0.00	0.13	0.000		0%	100%	0.00
	Apr	0.13	0.00	0.13	0.000		0%	100%	0.00
	May	0.13	0.00	0.13	0.000		0%	100%	0.00
	Jun	0.13	0.00	0.13	0.000		0%	100%	0.00
	Jul	0.13	0.00	0.13	0.000		0%	100%	0.00
	Aug	0.13	0.00	0.13	0.000		0%	100%	0.00
	Sep	0.14	0.00	0.14	0.000		0%	100%	0.00
	Oct	0.13	0.00	0.13	0.000		0%	100%	0.00
	Nov	0.14	0.00	0.14	0.000		0%	100%	0.00
	Dec	0.14	0.00	0.14	0.000		0%	100%	0.00
2026	Jan	0.13	0.00	0.13	0.000		0%	100%	0.00
	Feb	0.14	0.00	0.14	0.000		0%	100%	0.00
	Mar	0.14	0.00	0.14	0.000		0%	100%	0.00
	Apr	0.13	0.00	0.13	0.000		0%	100%	0.00
	May	0.14	0.00	0.14	0.000		0%	100%	0.00

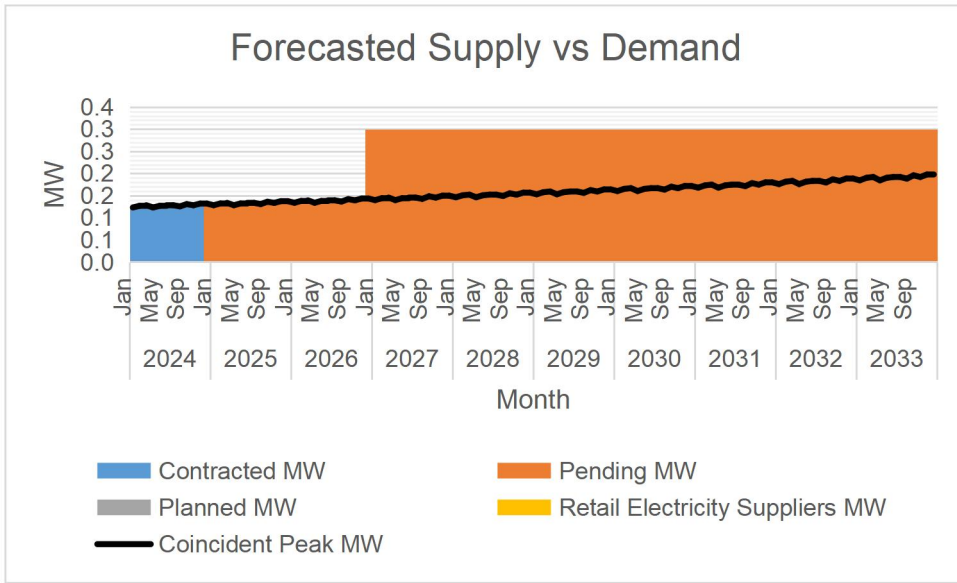
	Jun	0.14	0.00	0.14	0.000		0%	100%	0.00
	Jul	0.14	0.00	0.14	0.000		0%	100%	0.00
	Aug	0.14	0.00	0.14	0.000		0%	100%	0.00
	Sep	0.14	0.00	0.14	0.000		0%	100%	0.00
	Oct	0.14	0.00	0.14	0.000		0%	100%	0.00
	Nov	0.14	0.00	0.14	0.000		0%	100%	0.00
	Dec	0.14	0.00	0.30	0.000		0%	209%	0.16
2027	Jan	0.14	0.00	0.30	0.000		0%	215%	0.16
	Feb	0.14	0.00	0.30	0.000		0%	208%	0.16
	Mar	0.15	0.00	0.30	0.000		0%	206%	0.15
	Apr	0.14	0.00	0.30	0.000		0%	215%	0.16
	May	0.14	0.00	0.30	0.000		0%	208%	0.16
	Jun	0.15	0.00	0.30	0.000		0%	206%	0.15
	Jul	0.15	0.00	0.30	0.000		0%	206%	0.15
	Aug	0.14	0.00	0.30	0.000		0%	210%	0.16
	Sep	0.15	0.00	0.30	0.000		0%	202%	0.15
	Oct	0.15	0.00	0.30	0.000		0%	206%	0.15
	Nov	0.15	0.00	0.30	0.000		0%	200%	0.15
	Dec	0.15	0.00	0.30	0.000		0%	200%	0.15
2028	Jan	0.15	0.00	0.30	0.000		0%	205%	0.15
	Feb	0.15	0.00	0.30	0.000		0%	199%	0.15
	Mar	0.15	0.00	0.30	0.000		0%	197%	0.15
	Apr	0.15	0.00	0.30	0.000		0%	205%	0.15
	May	0.15	0.00	0.30	0.000		0%	199%	0.15
	Jun	0.15	0.00	0.30	0.000		0%	197%	0.15
	Jul	0.15	0.00	0.30	0.000		0%	197%	0.15
	Aug	0.15	0.00	0.30	0.000		0%	201%	0.15
	Sep	0.16	0.00	0.30	0.000		0%	193%	0.14
	Oct	0.15	0.00	0.30	0.000		0%	197%	0.15
	Nov	0.16	0.00	0.30	0.000		0%	192%	0.14
	Dec	0.16	0.00	0.30	0.000		0%	192%	0.14
2029	Jan	0.15	0.00	0.30	0.000		0%	196%	0.15
	Feb	0.16	0.00	0.30	0.000		0%	190%	0.14
	Mar	0.16	0.00	0.30	0.000		0%	188%	0.14
	Apr	0.15	0.00	0.30	0.000		0%	196%	0.15



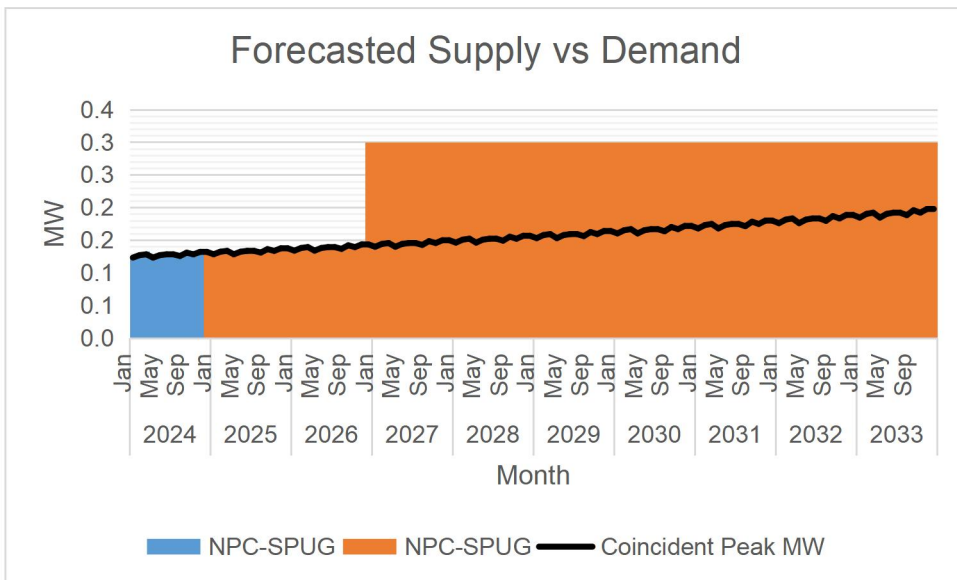
	May	0.16	0.00	0.30	0.000		0%	190%	0.14
	Jun	0.16	0.00	0.30	0.000		0%	188%	0.14
	Jul	0.16	0.00	0.30	0.000		0%	188%	0.14
	Aug	0.16	0.00	0.30	0.000		0%	192%	0.14
	Sep	0.16	0.00	0.30	0.000		0%	185%	0.14
	Oct	0.16	0.00	0.30	0.000		0%	188%	0.14
	Nov	0.16	0.00	0.30	0.000		0%	183%	0.14
	Dec	0.16	0.00	0.30	0.000		0%	183%	0.14
2030	Jan	0.16	0.00	0.30	0.000		0%	187%	0.14
	Feb	0.17	0.00	0.30	0.000		0%	182%	0.13
	Mar	0.17	0.00	0.30	0.000		0%	180%	0.13
	Apr	0.16	0.00	0.30	0.000		0%	187%	0.14
	May	0.17	0.00	0.30	0.000		0%	182%	0.13
	Jun	0.17	0.00	0.30	0.000		0%	180%	0.13
	Jul	0.17	0.00	0.30	0.000		0%	180%	0.13
	Aug	0.16	0.00	0.30	0.000		0%	183%	0.14
	Sep	0.17	0.00	0.30	0.000		0%	176%	0.13
	Oct	0.17	0.00	0.30	0.000		0%	180%	0.13
	Nov	0.17	0.00	0.30	0.000		0%	175%	0.13
	Dec	0.17	0.00	0.30	0.000		0%	175%	0.13
2031	Jan	0.17	0.00	0.30	0.000		0%	179%	0.13
	Feb	0.17	0.00	0.30	0.000		0%	173%	0.13
	Mar	0.17	0.00	0.30	0.000		0%	172%	0.13
	Apr	0.17	0.00	0.30	0.000		0%	179%	0.13
	May	0.17	0.00	0.30	0.000		0%	173%	0.13
	Jun	0.17	0.00	0.30	0.000		0%	172%	0.13
	Jul	0.17	0.00	0.30	0.000		0%	172%	0.13
	Aug	0.17	0.00	0.30	0.000		0%	175%	0.13
	Sep	0.18	0.00	0.30	0.000		0%	168%	0.12
	Oct	0.17	0.00	0.30	0.000		0%	172%	0.13
	Nov	0.18	0.00	0.30	0.000		0%	167%	0.12
	Dec	0.18	0.00	0.30	0.000		0%	167%	0.12
2032	Jan	0.18	0.00	0.30	0.000		0%	170%	0.12
	Feb	0.18	0.00	0.30	0.000		0%	165%	0.12
	Mar	0.18	0.00	0.30	0.000		0%	164%	0.12

	Apr	0.18	0.00	0.30	0.000		0%	170%	0.12
	May	0.18	0.00	0.30	0.000		0%	165%	0.12
	Jun	0.18	0.00	0.30	0.000		0%	164%	0.12
	Jul	0.18	0.00	0.30	0.000		0%	164%	0.12
	Aug	0.18	0.00	0.30	0.000		0%	167%	0.12
	Sep	0.19	0.00	0.30	0.000		0%	161%	0.11
	Oct	0.18	0.00	0.30	0.000		0%	164%	0.12
	Nov	0.19	0.00	0.30	0.000		0%	159%	0.11
	Dec	0.19	0.00	0.30	0.000		0%	159%	0.11
2033	Jan	0.18	0.00	0.30	0.000		0%	163%	0.12
	Feb	0.19	0.00	0.30	0.000		0%	158%	0.11
	Mar	0.19	0.00	0.30	0.000		0%	156%	0.11
	Apr	0.18	0.00	0.30	0.000		0%	163%	0.12
	May	0.19	0.00	0.30	0.000		0%	158%	0.11
	Jun	0.19	0.00	0.30	0.000		0%	156%	0.11
	Jul	0.19	0.00	0.30	0.000		0%	156%	0.11
	Aug	0.19	0.00	0.30	0.000		0%	159%	0.11
	Sep	0.20	0.00	0.30	0.000		0%	153%	0.10
	Oct	0.19	0.00	0.30	0.000		0%	156%	0.11
	Nov	0.20	0.00	0.30	0.000		0%	152%	0.10
	Dec	0.20	0.00	0.30	0.000		0%	152%	0.10

The Peak Demand was forecasted using Quadratic with Horizon and was assumed to occur on the month of November due to vacation period. Monthly Peak Demand is at its lowest on the month of January due to lesser activity and occasion. In general, Peak Demand is expected to grow at a rate of 4.69% average annually.



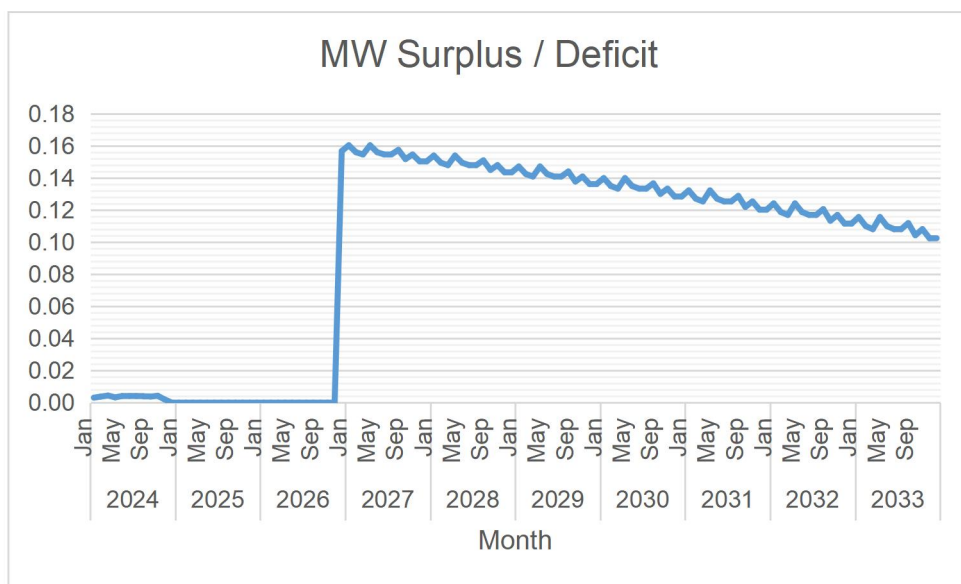
The available supply is generally above the Peak Demand.



the available supply only the NPC, the largest is .3 MW.



Currently, there is over-contracting. The highest target contracting level is 208 % which is expected to occur in February 2027.



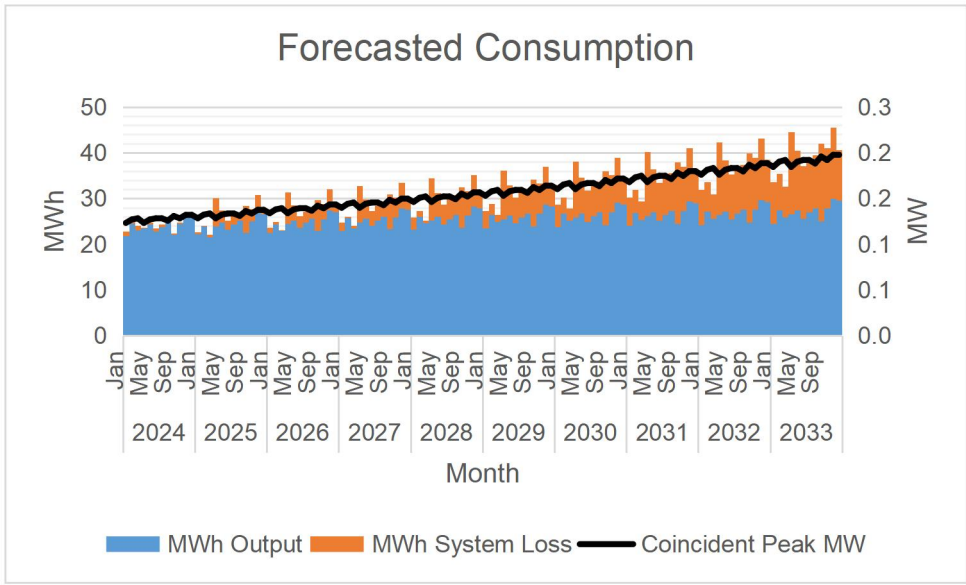
Currently, there is over-contracting by .7 MW. The highest surplus is 1.7 MW which is expected to occur in the month of September 2027.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	22.8	22	1	0.00%	4.53%
	Feb	26	24	1	0.00%	4.63%
	Mar	24	23	1	0.00%	4.30%
	Apr	24	23	0	0.00%	0.61%
	May	25	24	0	0.00%	1.63%
	Jun	24	23	1	0.00%	3.20%
	Jul	24	24	0	0.00%	2.00%
	Aug	25	25	1	0.00%	2.84%
	Sep	22	22	0	0.00%	1.60%
	Oct	25	25	0	0.00%	1.01%
	Nov	26	26	0	0.00%	0.24%
	Dec	27	26	1	0.00%	2.16%
2025	Jan	23	22	0	0.00%	2.15%
	Feb	24	24	0	0.00%	0.05%
	Mar	22	22	1	0.00%	2.58%
	Apr	30	24	6	0.00%	20.46%
	May	27	25	3	0.00%	9.37%
	Jun	25	23	2	0.00%	7.45%
	Jul	26	24	2	0.00%	6.90%
	Aug	27	25	1	0.00%	5.53%
	Sep	28	23	6	0.00%	20.82%
	Oct	28	25	3	0.00%	9.74%
	Nov	31	27	4	0.00%	12.80%
	Dec	27	27	1	0.00%	3.35%
2026	Jan	24	23	1	0.00%	4.40%
	Feb	25	24	1	0.00%	2.30%
	Mar	23	23	0	0.00%	0.34%

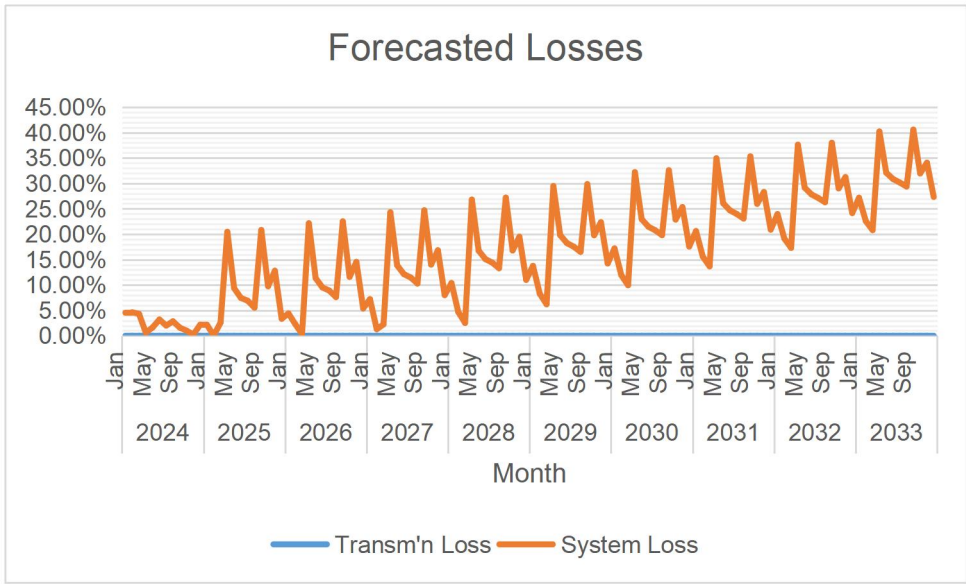
	Apr	31	24	7	0.00%	22.14%
	May	28	25	3	0.00%	11.35%
	Jun	26	24	2	0.00%	9.51%
	Jul	27	25	2	0.00%	8.90%
	Aug	28	26	2	0.00%	7.63%
	Sep	30	23	7	0.00%	22.51%
	Oct	29	26	3	0.00%	11.59%
	Nov	32	27	5	0.00%	14.53%
	Dec	29	27	2	0.00%	5.38%
2027	Jan	25	23	2	0.00%	7.21%
	Feb	26	26	0	0.00%	1.29%
	Mar	24	23	1	0.00%	2.24%
	Apr	33	25	8	0.00%	24.31%
	May	30	26	4	0.00%	13.87%
	Jun	27	24	3	0.00%	12.12%
	Jul	28	25	3	0.00%	11.47%
	Aug	29	26	3	0.00%	10.28%
	Sep	31	23	8	0.00%	24.69%
	Oct	30	26	4	0.00%	14.01%
	Nov	34	28	6	0.00%	16.82%
	Dec	30	28	2	0.00%	8.00%
2028	Jan	26	23	3	0.00%	10.38%
	Feb	27	26	1	0.00%	4.68%
	Mar	25	25	1	0.00%	2.53%
	Apr	34	25	9	0.00%	26.80%
	May	31	26	5	0.00%	16.75%
	Jun	29	24	4	0.00%	15.08%
	Jul	30	26	4	0.00%	14.40%
	Aug	30	26	4	0.00%	13.30%
	Sep	33	24	9	0.00%	27.18%
	Oct	32	26	5	0.00%	16.79%
	Nov	35	28	7	0.00%	19.48%
	Dec	31	28	3	0.00%	11.01%
2029	Jan	27	24	4	0.00%	13.75%
	Feb	29	26	2	0.00%	8.28%
	Mar	27	25	2	0.00%	6.20%
	Apr	36	26	11	0.00%	29.46%
	May	33	26	7	0.00%	19.81%
	Jun	30	25	6	0.00%	18.24%
	Jul	31	26	6	0.00%	17.54%
	Aug	32	27	5	0.00%	16.51%
	Sep	34	24	10	0.00%	29.85%
	Oct	33	27	7	0.00%	19.79%
	Nov	37	29	8	0.00%	22.35%
	Dec	33	28	5	0.00%	14.24%
2030	Jan	29	24	5	0.00%	17.19%
	Feb	30	27	4	0.00%	11.95%
	Mar	28	25	3	0.00%	9.95%
	Apr	38	26	12	0.00%	32.20%
	May	35	27	8	0.00%	22.96%
	Jun	32	25	7	0.00%	21.47%

	Jul	33	26	7	0.00%	20.76%
	Aug	34	27	7	0.00%	19.80%
	Sep	36	24	12	0.00%	32.58%
	Oct	35	27	8	0.00%	22.88%
	Nov	39	29	10	0.00%	25.32%
	Dec	35	29	6	0.00%	17.57%
2031	Jan	30	24	6	0.00%	20.61%
	Feb	32	27	5	0.00%	15.59%
	Mar	29	25	4	0.00%	13.67%
	Apr	40	26	14	0.00%	34.93%
	May	36	27	10	0.00%	26.09%
	Jun	33	25	8	0.00%	24.68%
	Jul	35	26	8	0.00%	23.97%
	Aug	36	27	8	0.00%	23.08%
	Sep	38	25	13	0.00%	35.31%
	Oct	37	27	10	0.00%	25.98%
	Nov	41	29	12	0.00%	28.30%
	Dec	37	29	8	0.00%	20.90%
2032	Jan	32	24	8	0.00%	23.95%
	Feb	34	27	6	0.00%	19.14%
	Mar	31	26	5	0.00%	17.30%
	Apr	42	26	16	0.00%	37.61%
	May	38	27	11	0.00%	29.15%
	Jun	35	25	10	0.00%	27.83%
	Jul	37	27	10	0.00%	27.12%
	Aug	37	28	10	0.00%	26.29%
	Sep	40	25	15	0.00%	37.99%
	Oct	39	28	11	0.00%	29.02%
	Nov	43	30	13	0.00%	31.23%
	Dec	39	29	9	0.00%	24.16%
2033	Jan	34	24	9	0.00%	27.17%
	Feb	35	27	8	0.00%	22.57%
	Mar	33	26	7	0.00%	20.80%
	Apr	45	27	18	0.00%	40.20%
	May	40	27	13	0.00%	32.11%
	Jun	37	26	11	0.00%	30.86%
	Jul	39	27	12	0.00%	30.16%
	Aug	39	28	12	0.00%	29.38%
	Sep	42	25	17	0.00%	40.57%
	Oct	41	28	13	0.00%	31.96%
	Nov	45	30	15	0.00%	34.07%
	Dec	40.61	30	11	0.00%	27.32%

MWh Offtake was forecasted using Quadratic with Horizon. The assumed load factor is 30%.



MWh Output was expected to grow at a rate of 1.37% average annually.



System Loss is expected to range from .05% to 40.20%.

## Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
NPC-SPUG	Base	National Power Corporation	0.00	0	11/26/2021	11/26/2024

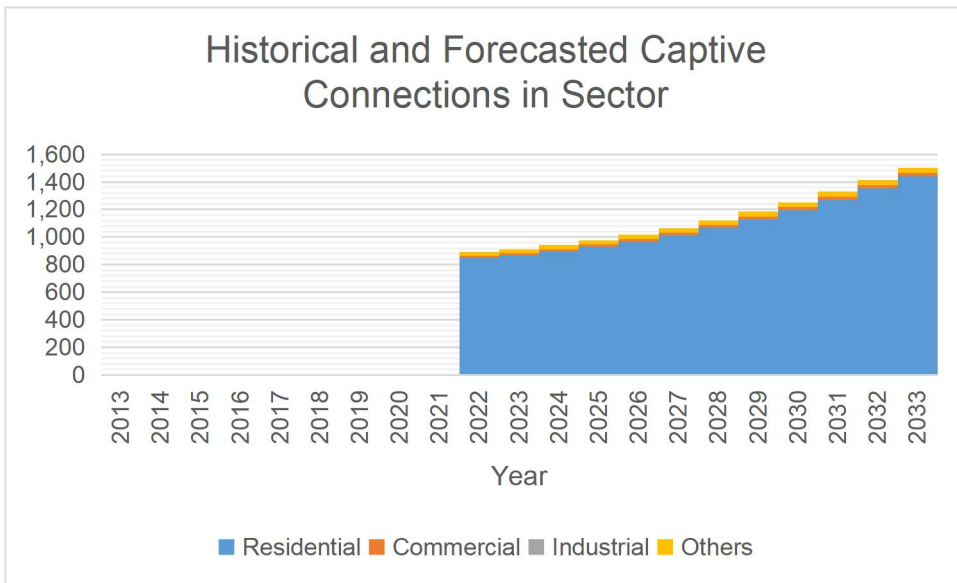
The PSA with NPC-SPUG filed with ERC was procured through negotiation. It was selected to provide for all the loading requirements of BASELCO. Historically, the utilization of the PSA is 100%. After the PSA of BASELCO with NPC ends on November 25, 2024, the plan is to renew for nine years.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
NPC-SPUG	Base	National Power Corporation	0.00	0	11/26/2024	12/26/2033

The PSA with NPC-SPUG filed with ERC was procured through negotiation. It was selected to provide for all the loading requirements of BASELCO. Historically, the utilization of the PSA is 100%.



# Captive Customer Connections



The number of Residential connections is expected to grow at a rate of 5.9 % average annually. Said customer class is expected to account for 88.77% of the total consumption.