

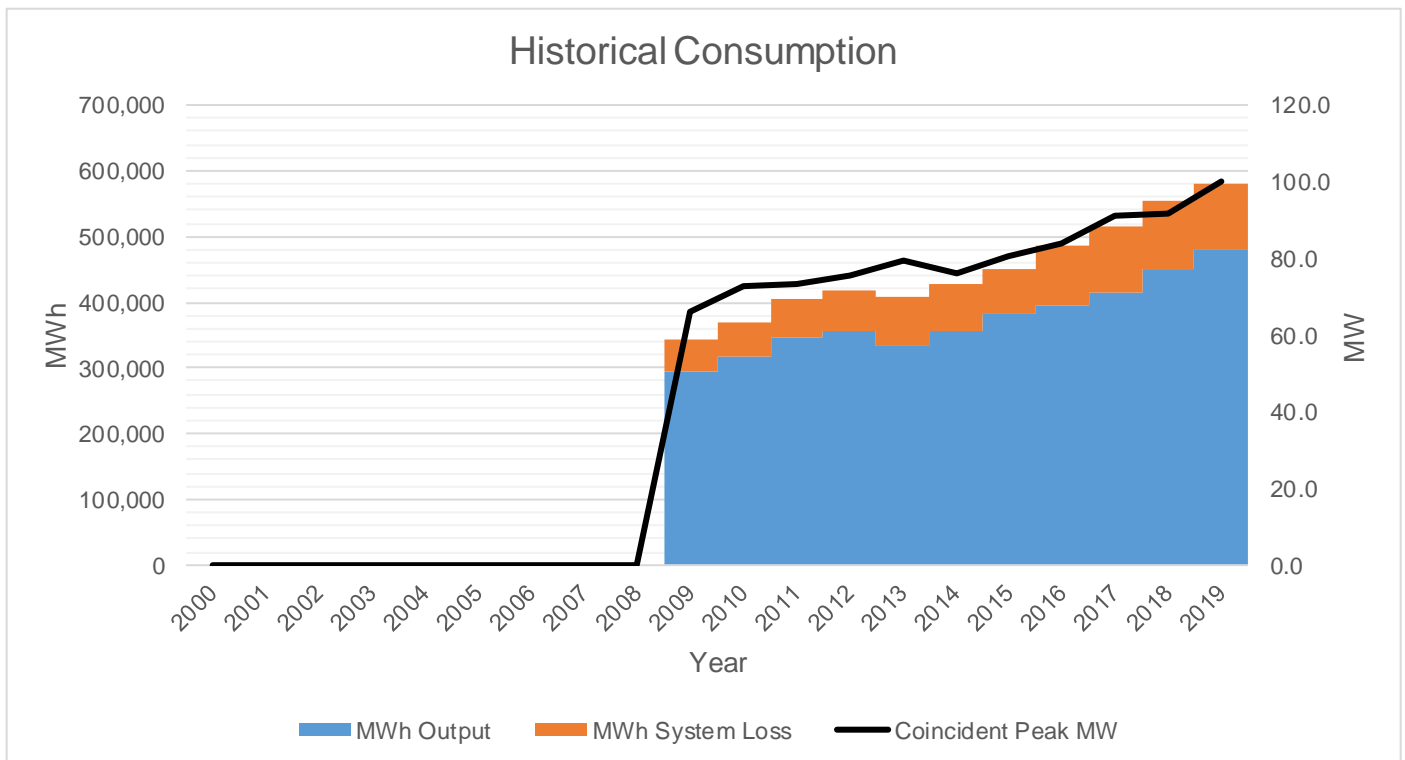
Power Supply Procurement Plan 2020-2029

**Davao del Norte Electric Cooperative, Inc.
(DANECO-Grid)**

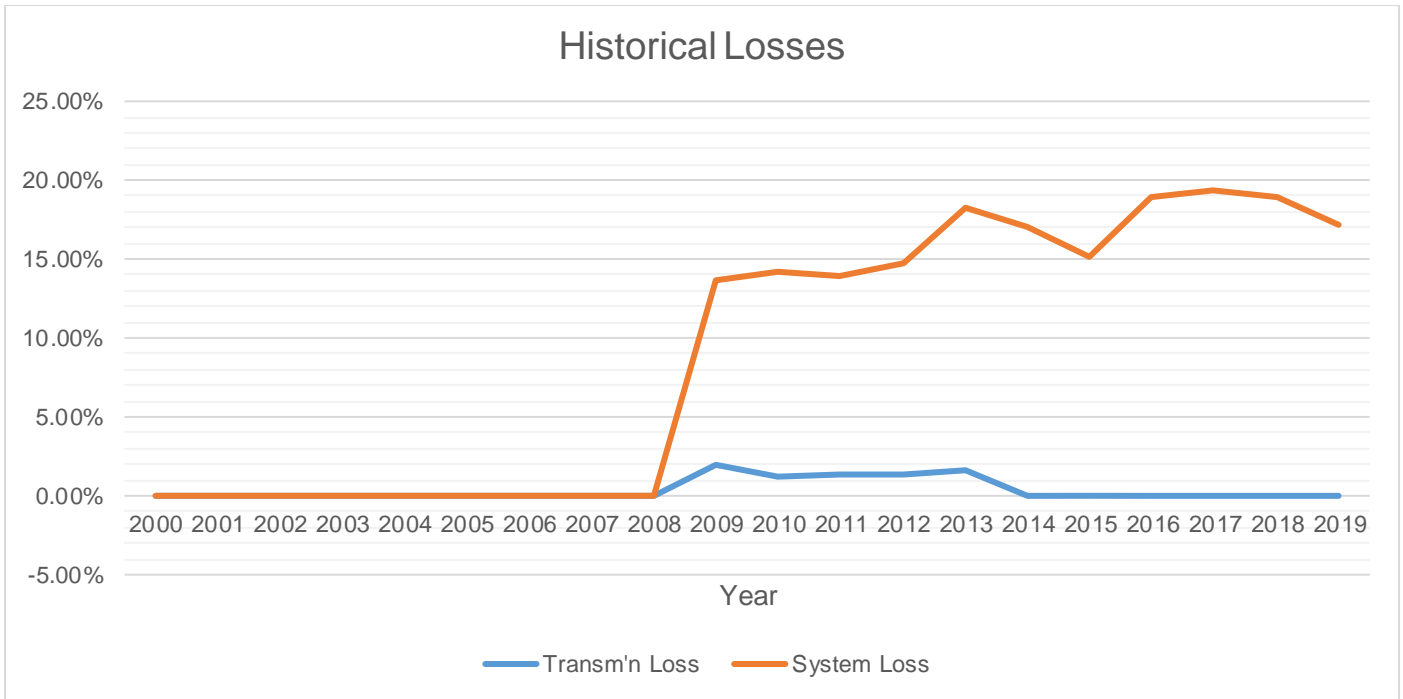
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2009	66.09	349,509	342,652	295,290	46,982	59%	-0.11%	1.96%	13.71%
2010	72.94	374,118	369,682	316,412	52,660	58%	-0.17%	1.19%	14.24%
2011	73.37	409,972	404,188	347,586	56,160	63%	-0.11%	1.41%	13.89%
2012	75.48	423,302	417,659	355,352	61,739	63%	-0.14%	1.33%	14.78%
2013	79.62	415,703	408,919	334,244	74,454	59%	-0.05%	1.63%	18.21%
2014	76.11	429,118	429,118	356,229	72,889	64%	0.00%	0.00%	16.99%
2015	80.70	451,697	451,697	383,157	68,540	64%	0.00%	0.00%	15.17%
2016	83.98	485,744	485,744	393,690	92,054	66%	0.00%	0.00%	18.95%
2017	91.17	515,630	515,630	415,821	99,809	65%	0.00%	0.00%	19.36%
2018	91.92	555,158	555,158	450,102	105,057	69%	0.00%	0.00%	18.92%
2019	100.06	579,392	579,392	479,594	99,798	66%	0.00%	0.00%	17.22%

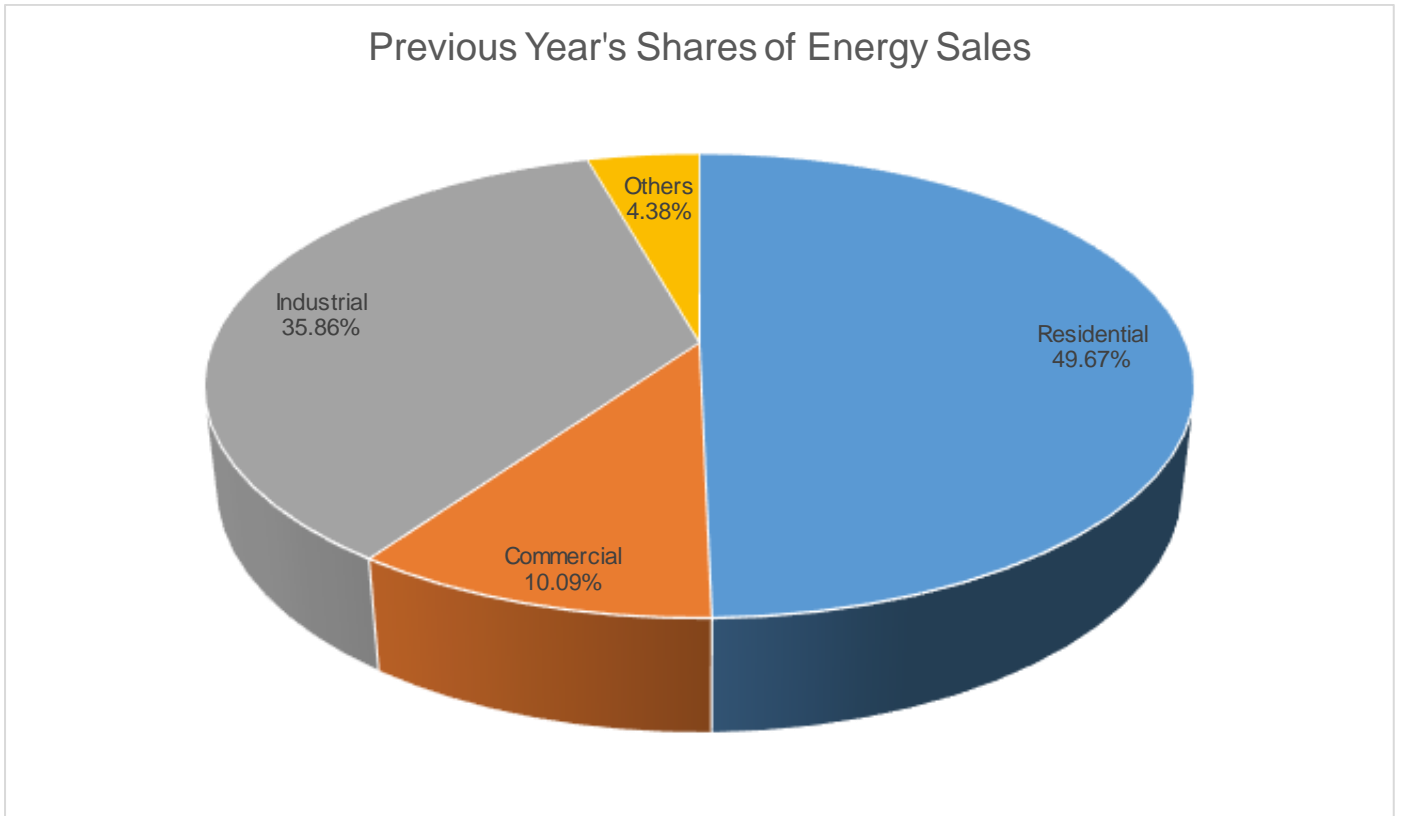
Peak Demand increased from 66.09 MW in 2009 to 100.06 MW in 2019 at an average rate of 4.32% due to increased power demand and population. MWh Offtake increased from 349,509 MWh in 2009 to 601,813 MWh in 2019 at an average rate of 5.64% annually due to the increase in energy consumption, especially in residential with an average annual rate of 6.35% and industrial with a yearly rate of 7.75%. Within the same period, the Load Factor ranged from 58% to 69%. There was an abrupt change in consumption in 2019 due to DANECO's franchised area's economic development.



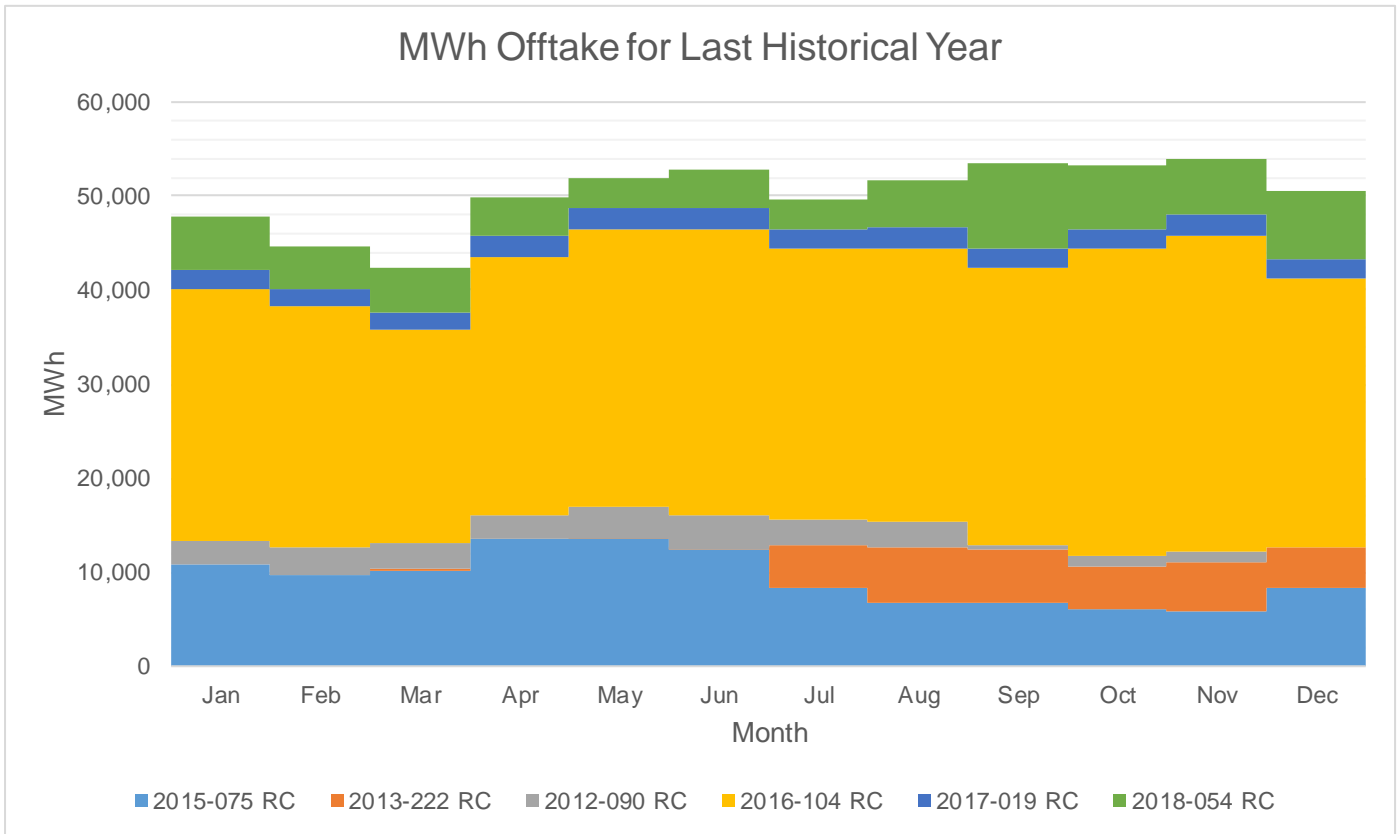
MWh Output increased from 2009 to the year 2019 at an average rate of 5.43% per year, while MWh System Loss increased at an annual rate of 8.33% within the same period.



Historically, Transmission Loss ranged from 0% to 1.96%, while System Loss ranged from 13.71% to 19.36%. Transmission Loss peaked at 1.96% in the year 2009 because of under-voltage on the transmission line. System Loss peaked at 19.36% in the year 2017 because of the DANECO and CDA squabble issues.



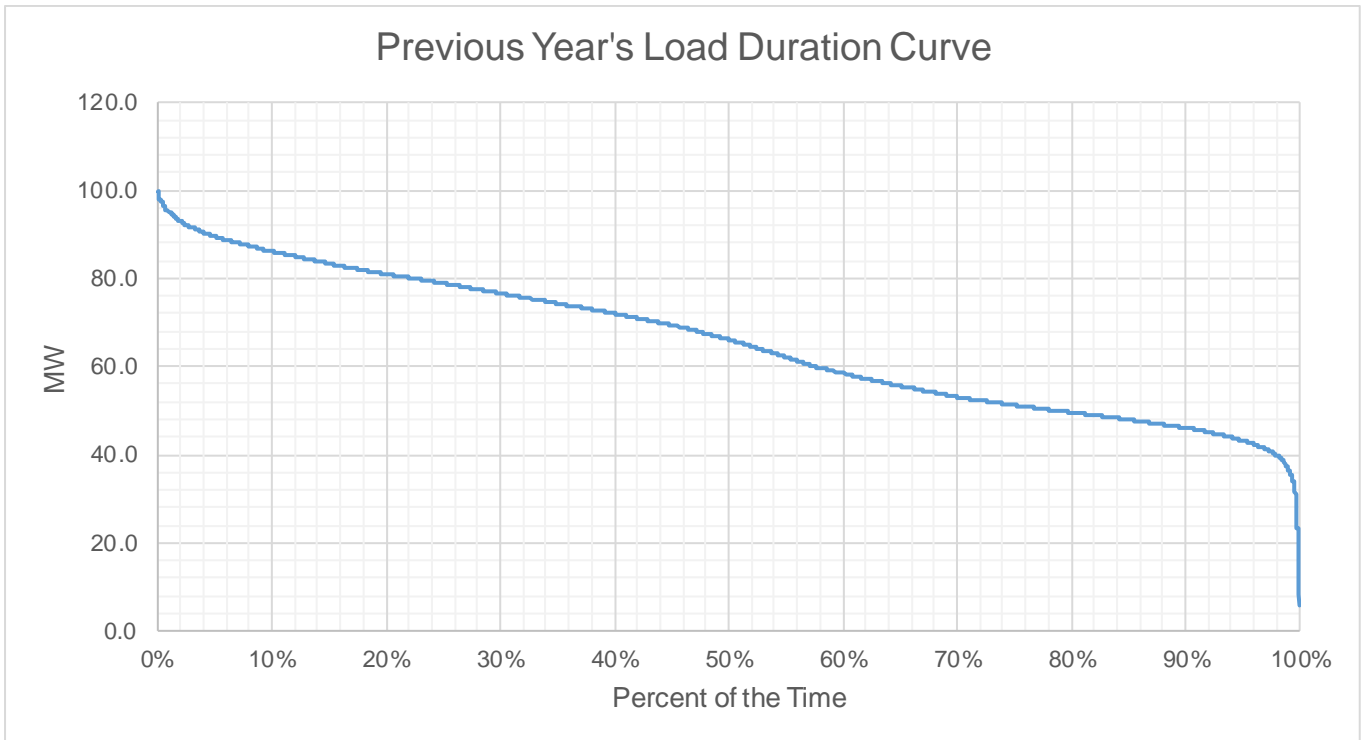
Residential customers account for the bulk of energy sales at 49.67% due to the high number of connections. In contrast, other customers consist of public buildings and streetlights, accounted for only 4.38% of energy sales despite the high number of connections and ranked third on captive connections.



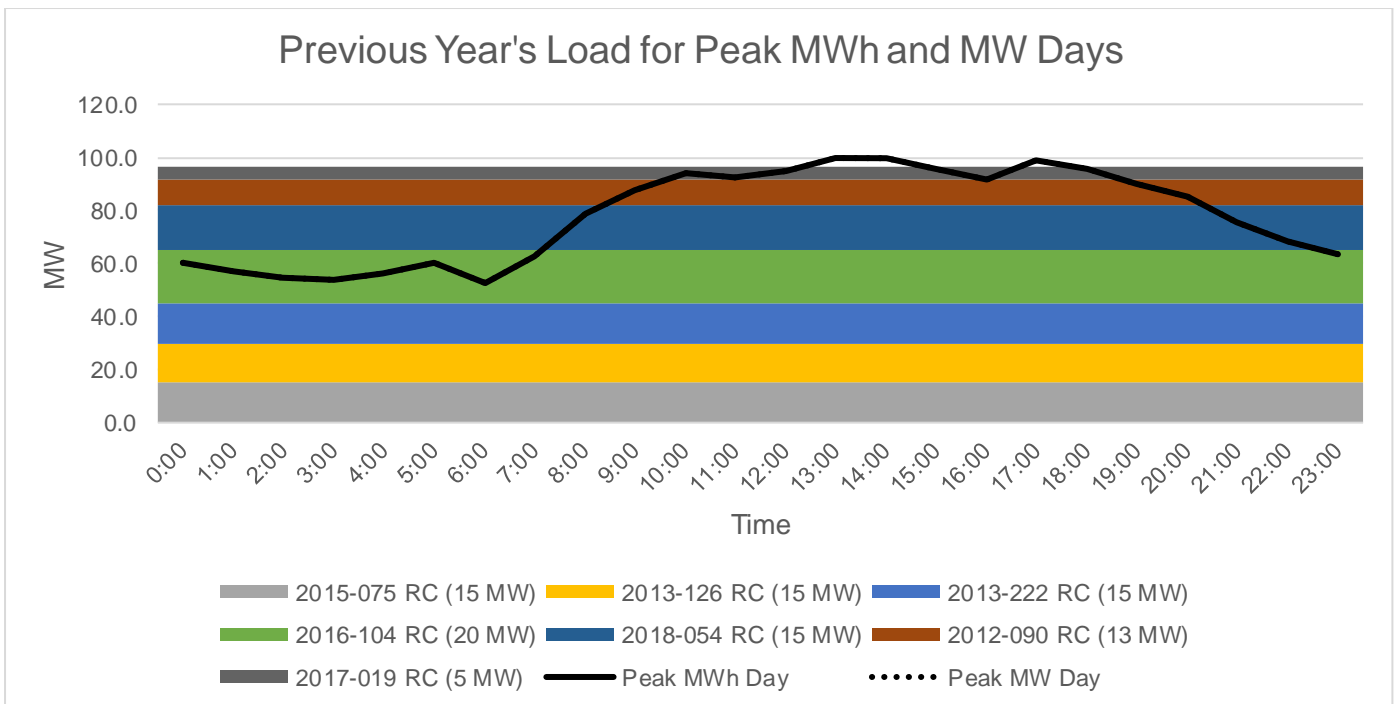
The total Offtake for the last historical year is lower than the quantity stipulated in the PSA. The PSA with 2016-104 RC accounts for the bulk of MWh Offtake.

Five (5) out of six (6) power plants in the MWh offtake for the last historical year pass through the 69kV line of NGCP, and only one, under 2017-019 RC, is connected directly to the 13.2 kV line of DANECO. It is a modular generator set with a capacity of 5 MVA located in IGACOS.

Previous Year's Load Profile



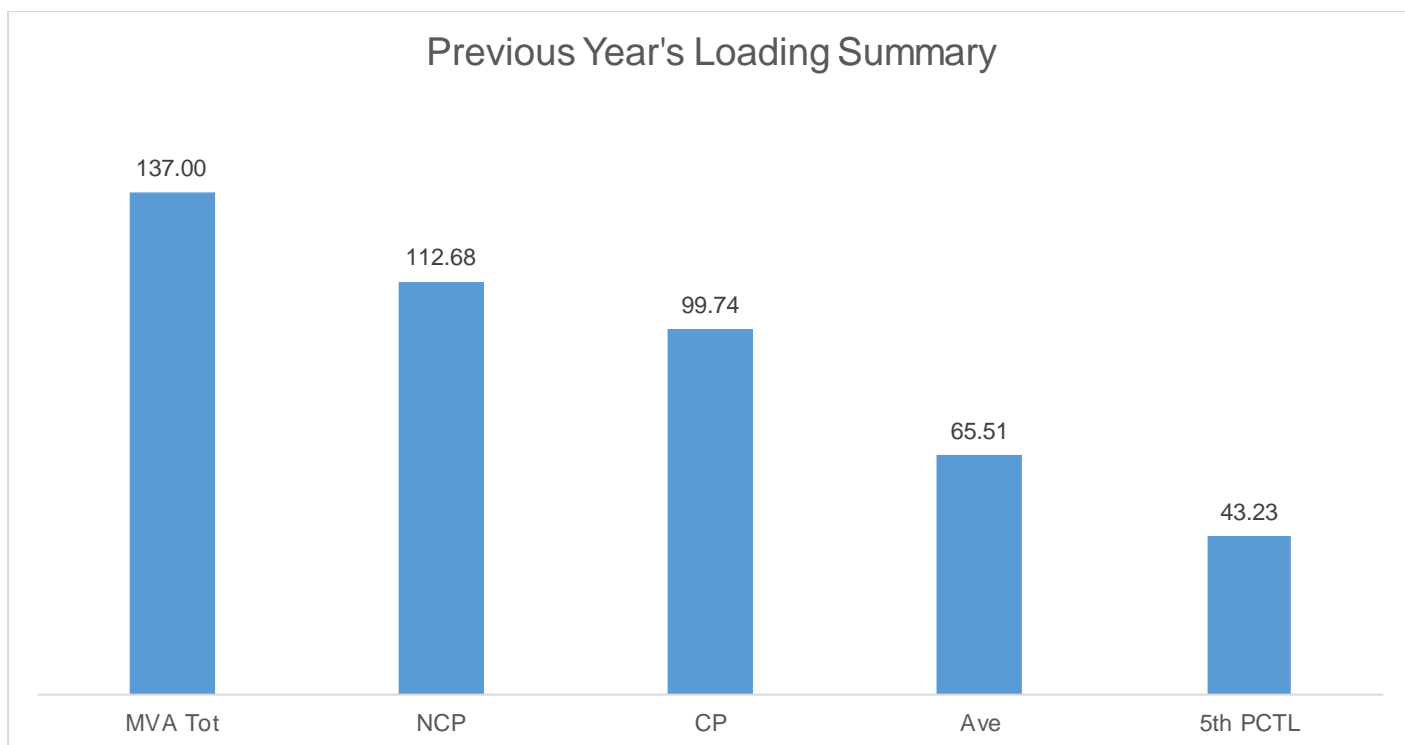
Based on the Load Duration Curve, the minimum load is 6 MW, and the maximum load is 100 MW for the last historical year. The minimum load is due to the total 69kV NGCP line trip-off last April 21, 2019.



Peak MW occurred in November at hour 14 due to high demand during the festive season, especially in Tagum City, which contributes to the highest demand in the whole DANECO's franchised area.

Peak daily MWh also occurred on the hour 14 due to increased energy consumption. It is when most of the establishments with big loads had their full blast operation. As shown in the Load Curves, the available supply is higher than the Peak Demand.

Previous Year's Loading Summary



The Non-coincident Peak Demand is 112.68 MW, which is around 82.25% of the total substation capacity of 137 MVA at a power factor of 82.24. The load factor or the ratio between the Average Load of 65.51 MW and the Non-coincident Peak Demand is 58.14%. A safe estimate of the accurate minimum load is the fifth percentile load of 43.23 MW which is 38.37% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
M1 (MIRAFUENTES)	10	8.607
M2 (MACO)	10	6.693
M4 (SAMAL)	0	6.181
M5 (MIPANGI)	10	6.968
M6 (MONTEVISTA)	12	8.475
M8 (MONKAYO)	10	4.003
M9 (MIRAFUENTES)	10	7.685
M10 (COMPOSTELA)	10	9.156
M11 (ASUNCION)	20	14.986
M12 (MABINI)	5	5.005
M13 (APOKON)	20	16.276
M14 (CANOCOTAN)	20	18.644

The substations loaded at above 70% are M1 (Mirafuentes), M6 (Montevista), M9 (Mirafuentes), M10 (Compostela), M11 (Asuncion), M12 (Mabini), M13 (Apokon) and M14 (Canocotan). M4 (Samal) does not have its substation and the distribution line is connected through a submarine cable, which is tapped on Davao Light Power Corporation (DLPC) substation in Sasa, Davao City. The loading problem will be solved by the year 2022, after the implementation of CAPEX Projects 2019. The said projects are the uprating of 10MVA M9-Mirafuentes Substation to 20MVA, the acquisition of a new 10 MVA substation in Nabunturan and the acquisition of DANECO's submarine cable that will interconnect the IGACOS (Samal) to the mainland.

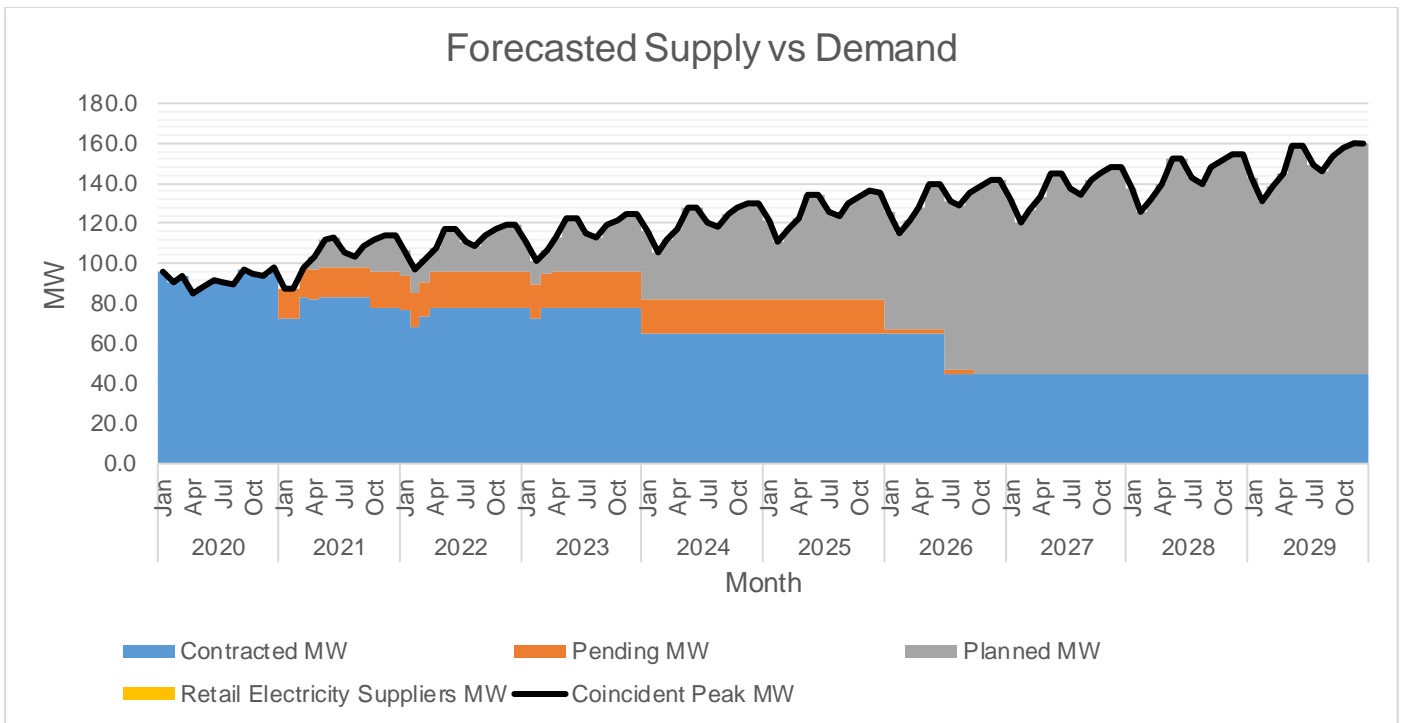
Forecasted Consumption Data

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2020	Jan	96.39	96.39	0.00	0.000	100%	100%	0.00
	Feb	90.99	90.99	0.00	0.000	100%	100%	0.00
	Mar	93.50	93.50	0.00	0.000	100%	100%	0.00
	Apr	84.99	84.99	0.00	0.000	100%	100%	0.00
	May	88.17	88.17	0.00	0.000	100%	100%	0.00
	Jun	91.46	91.46	0.00	0.000	100%	100%	0.00
	Jul	90.53	90.53	0.00	0.000	100%	100%	0.00
	Aug	89.78	89.78	0.00	0.000	100%	100%	0.00
	Sep	97.21	97.21	0.00	0.000	100%	100%	0.00
	Oct	94.64	94.64	0.00	0.000	100%	100%	0.00
	Nov	94.06	94.06	0.00	0.000	100%	100%	0.00
	Dec	97.53	97.53	0.00	0.000	100%	100%	0.00
2021	Jan	87.40	72.40	15.00	0.000	83%	100%	0.00
	Feb	87.00	72.00	15.00	0.000	83%	100%	0.00
	Mar	98.00	83.00	15.00	0.000	85%	100%	0.00
	Apr	102.97	81.97	15.00	6.000	80%	100%	0.00
	May	112.35	83.00	15.00	14.354	74%	100%	0.00
	Jun	112.56	83.00	15.00	14.559	74%	100%	0.00
	Jul	105.61	83.00	15.00	7.605	79%	100%	0.00
	Aug	103.61	82.61	15.00	6.000	80%	100%	0.00
	Sep	109.17	83.00	15.00	11.168	76%	100%	0.00
	Oct	111.67	78.00	17.40	16.268	70%	100%	0.00
	Nov	114.25	78.00	17.40	18.849	68%	100%	0.00
	Dec	113.90	78.00	17.40	18.495	68%	100%	0.00
2022	Jan	106.17	76.77	17.40	12.000	72%	100%	0.00
	Feb	97.07	67.67	17.40	12.000	70%	100%	0.00
	Mar	102.44	73.04	17.40	12.000	71%	100%	0.00
	Apr	107.63	78.00	17.40	12.233	72%	100%	0.00
	May	117.44	78.00	17.40	22.044	66%	100%	0.00
	Jun	117.66	78.00	17.40	22.258	66%	100%	0.00
	Jul	110.39	78.00	17.40	14.990	71%	100%	0.00
	Aug	108.30	78.00	17.40	12.901	72%	100%	0.00
	Sep	114.11	78.00	17.40	18.714	68%	100%	0.00
	Oct	116.73	78.00	17.40	21.327	67%	100%	0.00
	Nov	119.43	78.00	17.40	24.025	65%	100%	0.00
	Dec	119.06	78.00	17.40	23.655	66%	100%	0.00
2023	Jan	110.94	78.00	17.40	15.538	70%	100%	0.00
	Feb	101.43	72.03	17.40	12.000	71%	100%	0.00
	Mar	107.05	77.65	17.40	12.000	73%	100%	0.00
	Apr	112.47	78.00	17.40	17.072	69%	100%	0.00
	May	122.72	78.00	17.40	27.324	64%	100%	0.00
	Jun	122.95	78.00	17.40	27.548	63%	100%	0.00
	Jul	115.35	78.00	17.40	19.953	68%	100%	0.00
	Aug	113.17	78.00	17.40	17.770	69%	100%	0.00

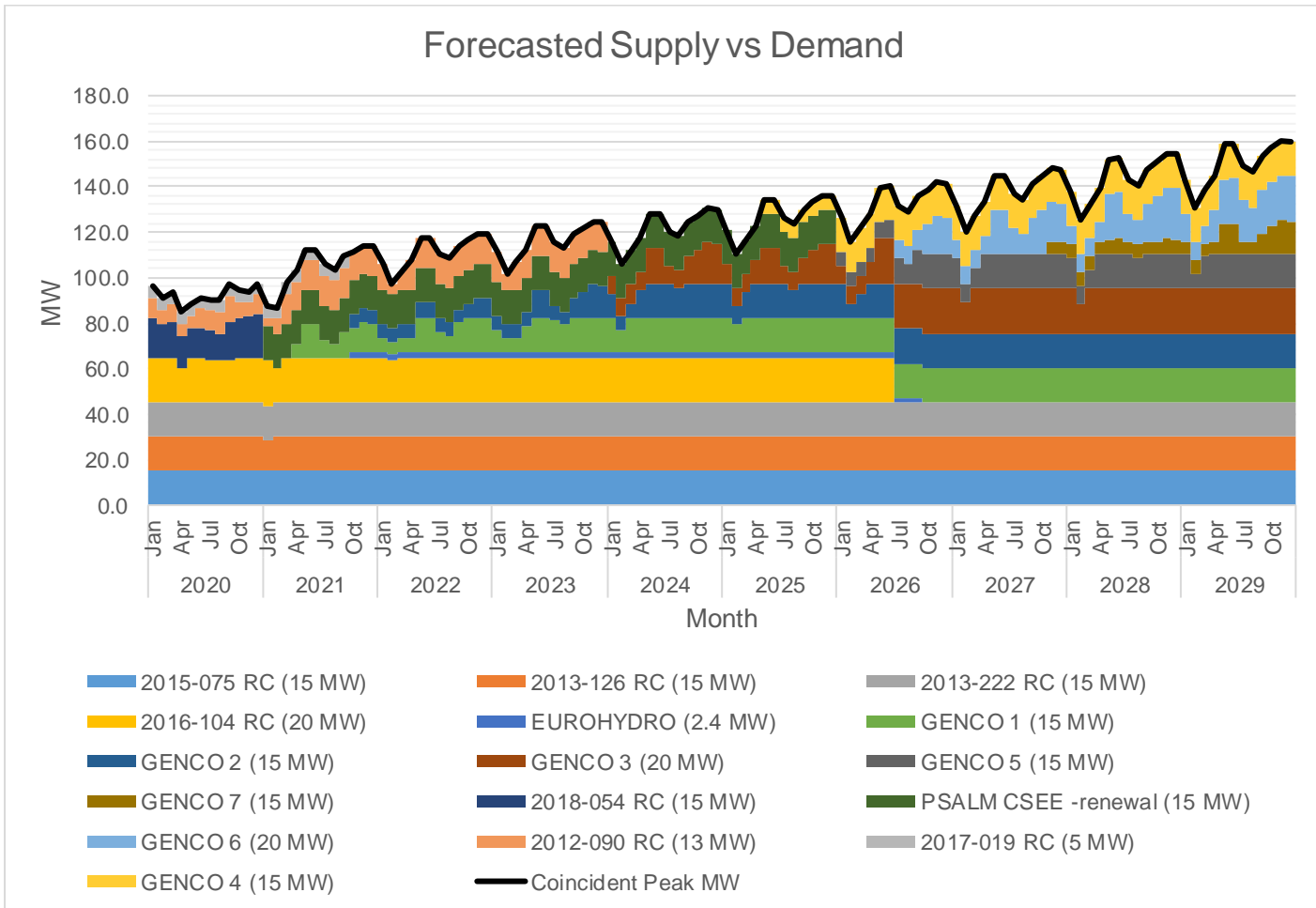
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Sep	119.24	78.00	17.40	23.844	65%	100%	0.00
	Oct	121.98	78.00	17.40	26.575	64%	100%	0.00
	Nov	124.79	78.00	17.40	29.394	63%	100%	0.00
	Dec	124.41	78.00	17.40	29.007	63%	100%	0.00
2024	Jan	115.88	65.00	17.40	33.483	56%	100%	0.00
	Feb	105.96	65.00	17.40	23.556	61%	100%	0.00
	Mar	111.82	65.00	17.40	29.418	58%	100%	0.00
	Apr	117.49	65.00	17.40	35.085	55%	100%	0.00
	May	128.19	65.00	17.40	45.794	51%	100%	0.00
	Jun	128.43	65.00	17.40	46.029	51%	100%	0.00
	Jul	120.50	65.00	17.40	38.095	54%	100%	0.00
	Aug	118.22	65.00	17.40	35.815	55%	100%	0.00
	Sep	124.56	65.00	17.40	42.159	52%	100%	0.00
	Oct	127.41	65.00	17.40	45.013	51%	100%	0.00
	Nov	130.36	65.00	17.40	47.957	50%	100%	0.00
	Dec	129.95	65.00	17.40	47.553	50%	100%	0.00
2025	Jan	121.00	65.00	17.40	38.600	54%	100%	0.00
	Feb	110.63	65.00	17.40	28.234	59%	100%	0.00
	Mar	116.76	65.00	17.40	34.356	56%	100%	0.00
	Apr	122.67	65.00	17.40	40.273	53%	100%	0.00
	May	133.86	65.00	17.40	51.455	49%	100%	0.00
	Jun	134.10	65.00	17.40	51.700	48%	100%	0.00
	Jul	125.82	65.00	17.40	43.416	52%	100%	0.00
	Aug	123.44	65.00	17.40	41.035	53%	100%	0.00
	Sep	130.06	65.00	17.40	47.660	50%	100%	0.00
	Oct	133.04	65.00	17.40	50.639	49%	100%	0.00
	Nov	136.11	65.00	17.40	53.713	48%	100%	0.00
	Dec	135.69	65.00	17.40	53.292	48%	100%	0.00
2026	Jan	126.29	65.00	2.40	58.889	51%	100%	0.00
	Feb	115.47	65.00	2.40	48.071	56%	100%	0.00
	Mar	121.86	65.00	2.40	54.460	53%	100%	0.00
	Apr	128.04	65.00	2.40	60.636	51%	100%	0.00
	May	139.71	65.00	2.40	72.306	47%	100%	0.00
	Jun	139.96	65.00	2.40	72.562	46%	100%	0.00
	Jul	131.32	45.00	2.40	83.915	34%	100%	0.00
	Aug	128.83	45.00	2.40	81.431	35%	100%	0.00
	Sep	135.75	45.00	2.40	88.345	33%	100%	0.00
	Oct	138.85	45.00	0.00	93.854	32%	100%	0.00
	Nov	142.06	45.00	0.00	97.063	32%	100%	0.00
	Dec	141.62	45.00	0.00	96.623	32%	100%	0.00
2027	Jan	131.75	45.00	0.00	86.751	34%	100%	0.00
	Feb	120.46	45.00	0.00	75.464	37%	100%	0.00
	Mar	127.13	45.00	0.00	82.129	35%	100%	0.00
	Apr	133.57	45.00	0.00	88.573	34%	100%	0.00
	May	145.00	45.00	0.00	100.000	31%	100%	0.00
	Jun	145.00	45.00	0.00	100.000	31%	100%	0.00
	Jul	136.99	45.00	0.00	91.994	33%	100%	0.00

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Aug	134.40	45.00	0.00	89.402	33%	100%	0.00
	Sep	141.62	45.00	0.00	96.615	32%	100%	0.00
	Oct	144.86	45.00	0.00	99.859	31%	100%	0.00
	Nov	148.21	45.00	0.00	103.207	30%	100%	0.00
	Dec	147.75	45.00	0.00	102.747	30%	100%	0.00
2028	Jan	137.38	45.00	0.00	92.384	33%	100%	0.00
	Feb	125.62	45.00	0.00	80.615	36%	100%	0.00
	Mar	132.57	45.00	0.00	87.565	34%	100%	0.00
	Apr	139.28	45.00	0.00	94.284	32%	100%	0.00
	8	151.98	45.00	0.00	106.980	30%	100%	0.00
	Jun	152.26	45.00	0.00	107.258	30%	100%	0.00
	Jul	142.85	45.00	0.00	97.852	32%	100%	0.00
	Aug	140.15	45.00	0.00	95.149	32%	100%	0.00
	Sep	147.67	45.00	0.00	102.671	30%	100%	0.00
	Oct	151.05	45.00	0.00	106.053	30%	100%	0.00
	Nov	154.54	45.00	0.00	109.544	29%	100%	0.00
	Dec	154.07	45.00	0.00	109.065	29%	100%	0.00
2029	Jan	143.19	45.00	0.00	98.190	31%	100%	0.00
	Feb	130.92	45.00	0.00	85.923	34%	100%	0.00
	Mar	138.17	45.00	0.00	93.167	33%	100%	0.00
	Apr	145.17	45.00	0.00	100.170	31%	100%	0.00
	May	158.40	45.00	0.00	113.402	28%	100%	0.00
	Jun	158.69	45.00	0.00	113.692	28%	100%	0.00
	Jul	148.89	45.00	0.00	103.888	30%	100%	0.00
	Aug	146.07	45.00	0.00	101.071	31%	100%	0.00
	Sep	153.91	45.00	0.00	108.911	29%	100%	0.00
	Oct	157.44	45.00	0.00	112.436	29%	100%	0.00
	Nov	160.07	45.00	0.00	115.074	28%	100%	0.00
	Dec	159.58	45.00	0.00	114.575	28%	100%	0.00

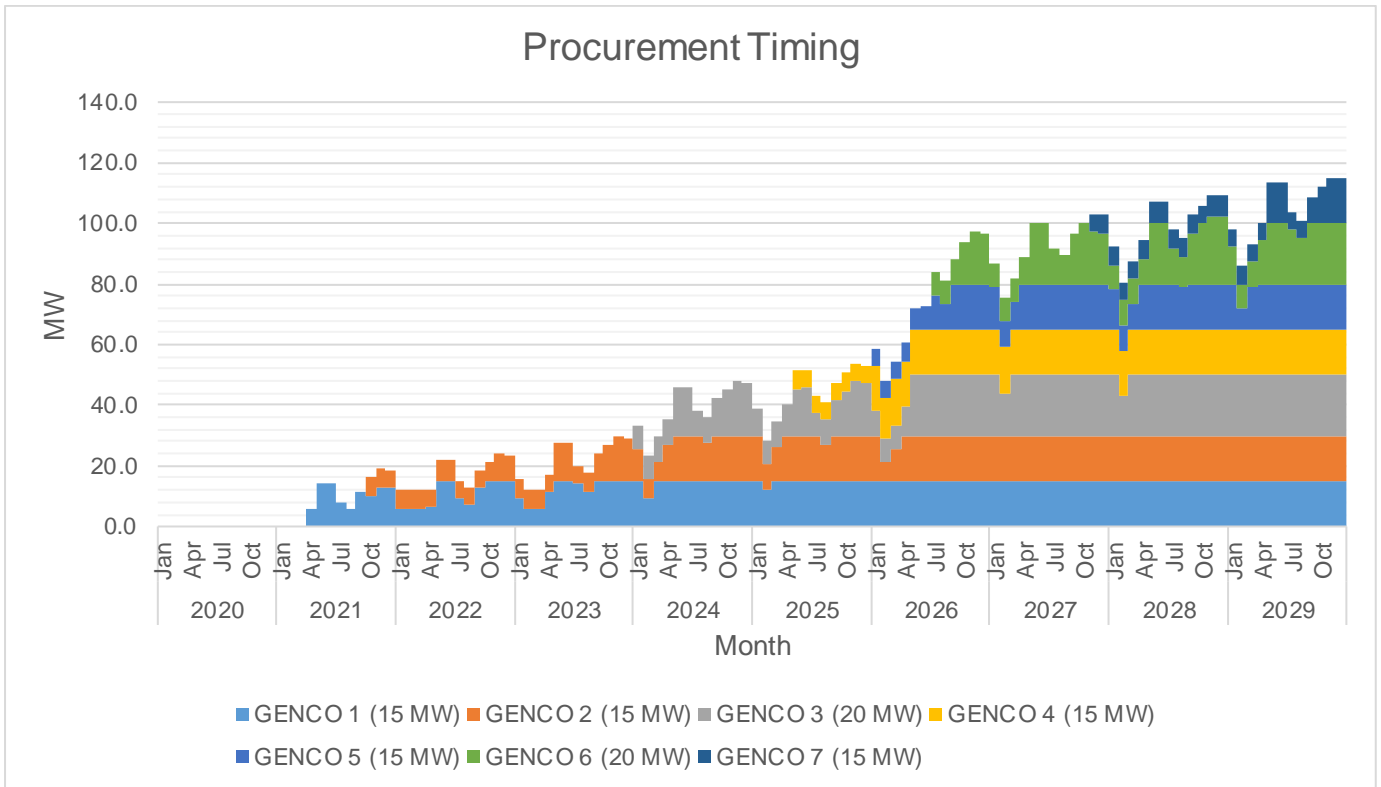
The Peak Demand was forecasted using the 50K Forecasting Model. It is predicted to occur in November due to the festive season. Activities such as Araw ng Tagum, the Christmas tree's lighting, and other preparatory events for the Yuletide season are scheduled. Monthly Peak Demand is lowest in February due to the cold weather and fewer community activities. In general, Peak Demand is expected to grow at a rate of 4.41% annually.



The available supply is generally above or equal to the Peak Demand. This is because DANECO is securing the power supply within the franchise area by planning and engaging new PSA on different power suppliers.



Of the available supply, the largest is 20 MW from 2016-104 RC, GENCO 3, and GENCO 6. It is followed by 15 MW from 2015-075 RC, 2013-126 RC, 2013-222 RC, 2018-054 RC, GENCO 1, GENCO 2, GENCO 4, GENCO 5 & GENCO 7.



The first wave of supply procurement will be for 15 MW of GENCO 1; a based-type power plant planned to be available by April 2021. It will be followed by GENCO 2 (15 MW) and GENCO 3 (20 MW), another based-type power plant, to be available by October 2021 and January 2024, respectively.



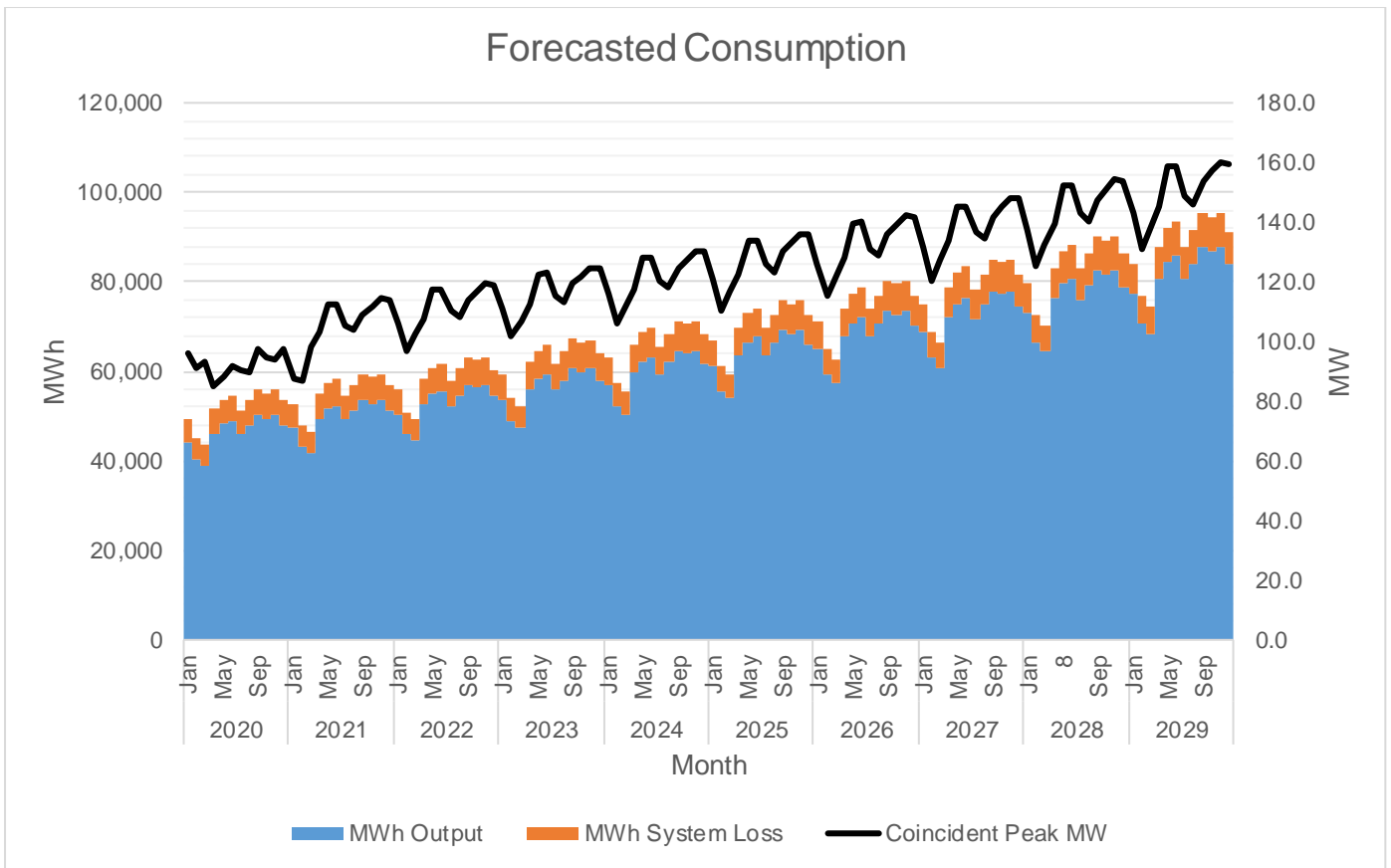
Currently, there is over-contracting by an average of 6.08% but expected to be under-contract by January 2021 since one of our existing contracts will be expired in December 2020 and DANECO's forecasted demand is ascending. However, DANECO has pending power supply contracts, including the renewal and new PSA expected to be tested and commissioned in 2021 to cater to the forecasted deficit in the power supply. The highest target contracting level is 71.92% which is expected to occur on November 2029. The lowest target contracting level is 4.60% which is expected to occur in January 2021.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2020	Jan	49,286	44,234	5,052	0.00%	10.25%
	Feb	45,010	40,397	4,614	0.00%	10.25%
	Mar	43,531	39,069	4,462	0.00%	10.25%
	Apr	51,497	46,219	5,278	0.00%	10.25%
	May	53,794	48,280	5,514	0.00%	10.25%
	Jun	54,648	49,047	5,601	0.00%	10.25%
	Jul	51,339	46,077	5,262	0.00%	10.25%
	Aug	53,507	48,022	5,484	0.00%	10.25%
	Sep	55,791	50,072	5,719	0.00%	10.25%
	Oct	55,222	49,562	5,660	0.00%	10.25%
	Nov	55,783	50,065	5,718	0.00%	10.25%
	Dec	53,376	47,905	5,471	0.00%	10.25%
2021	Jan	52,446	47,199	5,247	0.00%	10.01%
	Feb	47,896	43,104	4,792	0.00%	10.01%
	Mar	46,322	41,687	4,635	0.00%	10.01%
	Apr	54,799	49,316	5,483	0.00%	10.01%
	May	57,243	51,515	5,727	0.00%	10.01%
	Jun	58,152	52,334	5,818	0.00%	10.01%
	Jul	54,631	49,165	5,466	0.00%	10.01%
	Aug	56,937	51,240	5,697	0.00%	10.01%
	Sep	59,368	53,428	5,940	0.00%	10.01%
	Oct	58,763	52,884	5,879	0.00%	10.01%
	Nov	59,359	53,420	5,939	0.00%	10.01%
	Dec	56,798	51,115	5,683	0.00%	10.01%
2022	Jan	55,786	50,242	5,544	0.00%	9.94%
	Feb	50,946	45,883	5,063	0.00%	9.94%
	Mar	49,271	44,375	4,896	0.00%	9.94%
	Apr	58,288	52,496	5,792	0.00%	9.94%
	May	60,888	54,837	6,051	0.00%	9.94%
	Jun	61,855	55,708	6,147	0.00%	9.94%
	Jul	58,110	52,335	5,775	0.00%	9.94%
	Aug	60,563	54,544	6,018	0.00%	9.94%
	Sep	63,148	56,873	6,275	0.00%	9.94%
	Oct	62,505	56,293	6,211	0.00%	9.94%
	Nov	63,139	56,864	6,274	0.00%	9.94%
	Dec	60,415	54,411	6,004	0.00%	9.94%
2023	Jan	59,305	53,517	5,788	0.00%	9.76%
	Feb	54,160	48,874	5,286	0.00%	9.76%
	Mar	52,380	47,267	5,112	0.00%	9.76%
	Apr	61,965	55,917	6,048	0.00%	9.76%
	May	64,729	58,411	6,318	0.00%	9.76%
	Jun	65,757	59,339	6,418	0.00%	9.76%
	Jul	61,776	55,746	6,029	0.00%	9.76%
	Aug	64,384	58,100	6,284	0.00%	9.76%
	Sep	67,132	60,580	6,552	0.00%	9.76%
	Oct	66,448	59,963	6,485	0.00%	9.76%
	Nov	67,122	60,571	6,551	0.00%	9.76%
	Dec	64,226	57,958	6,269	0.00%	9.76%

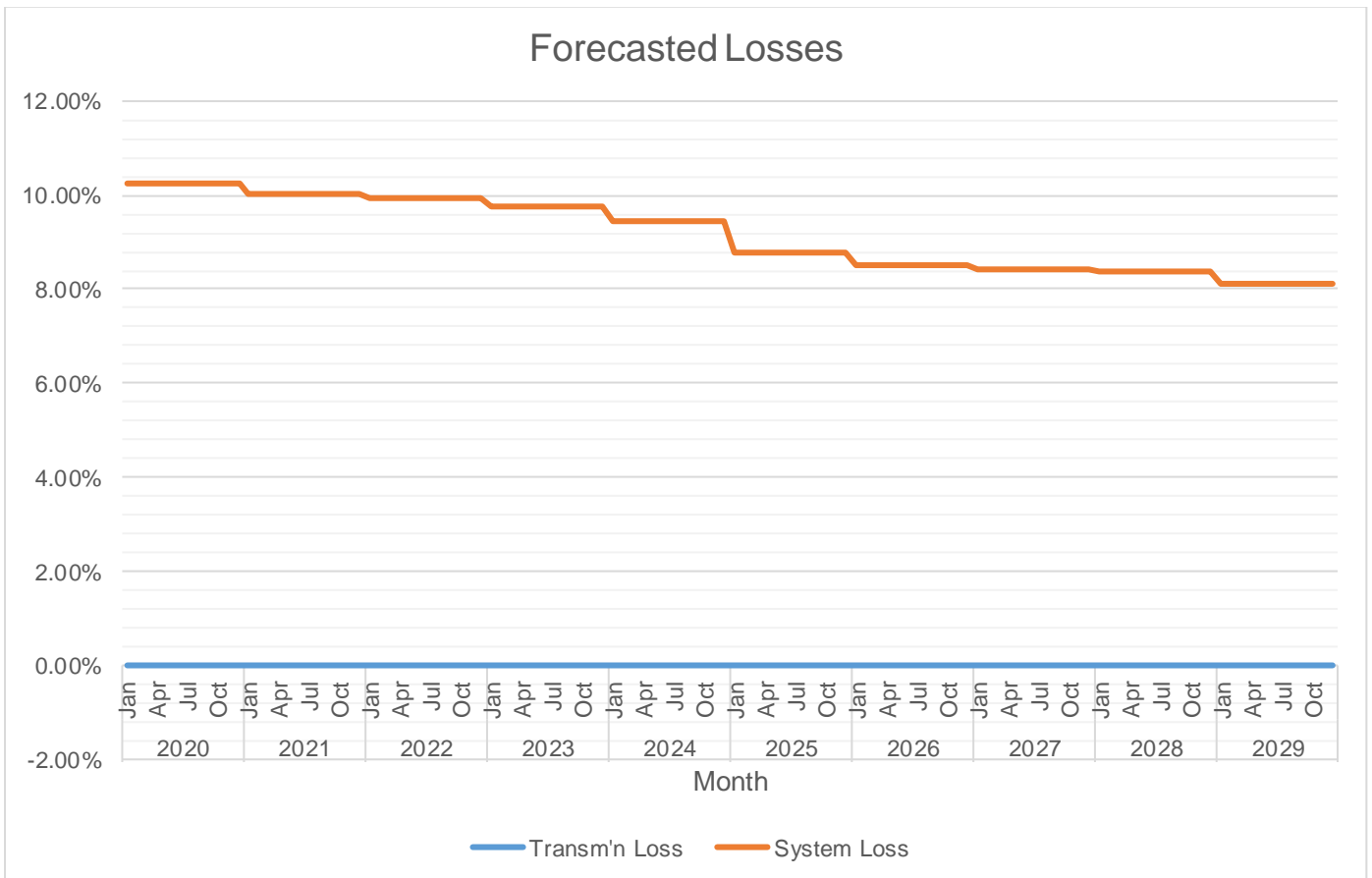
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2024	Jan	63,004	57,063	5,941	0.00%	9.43%
	Feb	57,538	52,112	5,425	0.00%	9.43%
	Mar	55,647	50,400	5,247	0.00%	9.43%
	Apr	65,830	59,623	6,207	0.00%	9.43%
	May	68,766	62,282	6,484	0.00%	9.43%
	Jun	69,859	63,271	6,587	0.00%	9.43%
	Jul	65,629	59,440	6,188	0.00%	9.43%
	Aug	68,399	61,950	6,450	0.00%	9.43%
	Sep	71,320	64,595	6,725	0.00%	9.43%
	Oct	70,593	63,936	6,656	0.00%	9.43%
	Nov	71,309	64,585	6,724	0.00%	9.43%
	Dec	68,232	61,798	6,434	0.00%	9.43%
2025	Jan	66,883	61,024	5,859	0.00%	8.76%
	Feb	61,080	55,730	5,351	0.00%	8.76%
	Mar	59,073	53,898	5,175	0.00%	8.76%
	Apr	69,883	63,761	6,122	0.00%	8.76%
	May	73,000	66,605	6,395	0.00%	8.76%
	Jun	74,160	67,663	6,496	0.00%	8.76%
	Jul	69,669	63,566	6,103	0.00%	8.76%
	Aug	72,610	66,250	6,361	0.00%	8.76%
	Sep	75,710	69,078	6,632	0.00%	8.76%
	Oct	74,939	68,374	6,565	0.00%	8.76%
	Nov	75,699	69,068	6,631	0.00%	8.76%
	Dec	72,433	66,088	6,345	0.00%	8.76%
2026	Jan	70,942	64,909	6,033	0.00%	8.50%
	Feb	64,787	59,277	5,510	0.00%	8.50%
	Mar	62,657	57,328	5,329	0.00%	8.50%
	Apr	74,124	67,820	6,304	0.00%	8.50%
	May	77,430	70,845	6,585	0.00%	8.50%
	Jun	78,660	71,970	6,690	0.00%	8.50%
	Jul	73,897	67,612	6,285	0.00%	8.50%
	Aug	77,016	70,467	6,550	0.00%	8.50%
	Sep	80,304	73,475	6,829	0.00%	8.50%
	Oct	79,486	72,726	6,760	0.00%	8.50%
	Nov	80,292	73,464	6,828	0.00%	8.50%
	Dec	76,828	70,294	6,534	0.00%	8.50%
2027	Jan	75,180	68,850	6,330	0.00%	8.42%
	Feb	68,657	62,876	5,781	0.00%	8.42%
	Mar	66,400	60,810	5,591	0.00%	8.42%
	Apr	78,552	71,938	6,614	0.00%	8.42%
	May	82,055	75,147	6,909	0.00%	8.42%
	Jun	83,359	76,340	7,018	0.00%	8.42%
	Jul	78,312	71,718	6,594	0.00%	8.42%
	Aug	81,618	74,746	6,872	0.00%	8.42%
	Sep	85,102	77,937	7,165	0.00%	8.42%
	Oct	84,235	77,143	7,092	0.00%	8.42%
	Nov	85,089	77,925	7,164	0.00%	8.42%
	Dec	81,418	74,563	6,855	0.00%	8.42%

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2028	Jan	79,598	72,936	6,662	0.00%	8.37%
	Feb	72,692	66,607	6,084	0.00%	8.37%
	Mar	70,302	64,418	5,884	0.00%	8.37%
	Apr	83,168	76,207	6,961	0.00%	8.37%
	8	86,877	79,606	7,272	0.00%	8.37%
	Jun	88,258	80,870	7,387	0.00%	8.37%
	Jul	82,914	75,974	6,940	0.00%	8.37%
	Aug	86,414	79,181	7,233	0.00%	8.37%
	Sep	90,103	82,561	7,542	0.00%	8.37%
	Oct	89,185	81,720	7,465	0.00%	8.37%
	Nov	90,089	82,549	7,541	0.00%	8.37%
	Dec	86,203	78,988	7,215	0.00%	8.37%
2029	Jan	84,196	77,362	6,834	0.00%	8.12%
	Feb	76,891	70,649	6,241	0.00%	8.12%
	Mar	74,363	68,327	6,036	0.00%	8.12%
	Apr	87,972	80,832	7,141	0.00%	8.12%
	May	91,896	84,437	7,459	0.00%	8.12%
	Jun	93,355	85,778	7,578	0.00%	8.12%
	Jul	87,703	80,584	7,119	0.00%	8.12%
	Aug	91,405	83,986	7,419	0.00%	8.12%
	Sep	95,308	87,572	7,736	0.00%	8.12%
	Oct	94,336	86,679	7,657	0.00%	8.12%
	Nov	95,293	87,558	7,735	0.00%	8.12%
	Dec	91,182	83,781	7,401	0.00%	8.12%

MWh Offtake was forecasted using the 50K Forecasting Model. The assumed load factor is 65%.



MWh Output is expected to grow at an average rate of 4.40 annually.



Transmission Loss is computed as 0%, while System Loss is expected to range from 8 % to 10 %.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2015-075 RC (15 MW)	Base	FDC Misamis Power Corporation	6.00	52,560	11/26/2016	11/25/2041
2013-126 RC (15 MW)	Base	Therma South, Inc.	6.00	52,560	09/26/2015	09/25/2040
2013-222 RC (15 MW)	Base	Sarangani Energy Corporation	6.00	52,560	10/26/2019	10/25/2044
2012-090 RC (13 MW)	Peaking	EEl Power Corporation	2.00	31,650	12/26/2013	12/25/2023
2016-104 RC (20 MW)	Base	San Miguel Consolidated Power Corporation	8.00	70,080	06/26/2016	06/25/2026
2017-019 RC (5 MW)	Peaking	Mindoro Grid Corporation	1.00	9,636	09/26/2016	09/25/2021
2018-054 RC (15 MW)	Intermediate	Power Sector Assets and Liabilities Management Corporation	5.00	66,898	12/26/2017	12/25/2020

The PSA with FDC Misamis Power Corporation (FDC) , Therma South Inc. (TSI), Sarangani Energy Corporation (SEC) and San Miguel Consolidated Power Corporation (SMCPC) filed with ERC under Case No. 2015-075 RC, 2013-126 RC, 2013-222 RC and 2016-104 RC respectively were procured through Power Supply Procurement Planning (PSPP) and Procurement Process initiated by the DANECO, DOE, ERC and NEA. They were selected to provide for base requirements due to the high demand requirement of DANECO and it is more relevant based on DANECO's 24-hour load profile, where off-peak demand is only half of the peak demand. Historically, the utilization of these PSA ranges from 65 to 95%. The actual billed overall monthly charge under these four (4) base-type PSAs ranged from 180,725,502.23 P/kWh to 254,671,733.03 P/kWh in the same period.

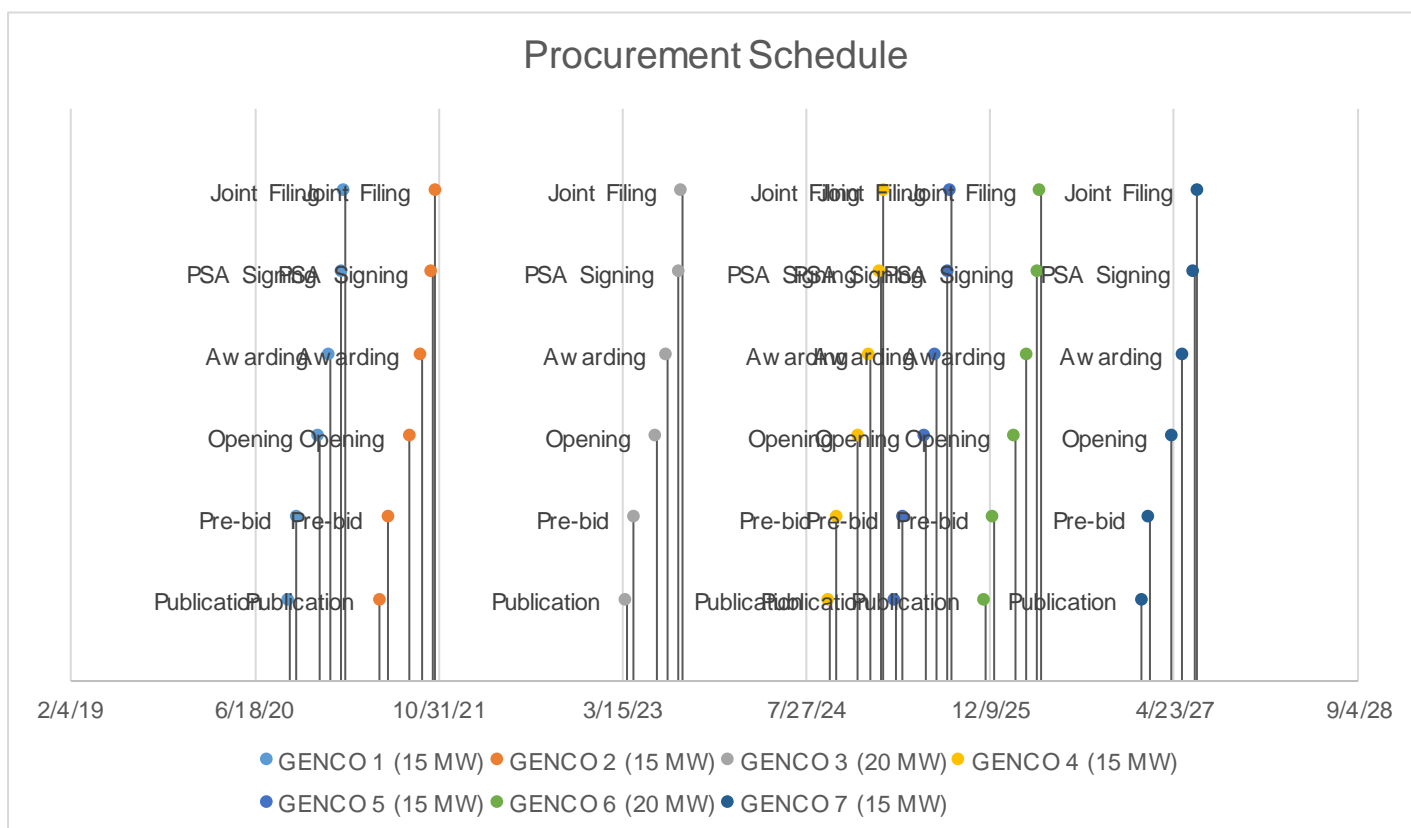
The other three (3) PSAs, namely EEl Power Corporation (EEIPC), Mindoro Grid Corporation (MGC) and Power Sector Assets and Liabilities Management Corporation (PSALM), filed with ERC under Case No. 2012-090 RC, 2017-019 RC, and 2018- 054 RC respectively were procured through Power Supply Procurement Planning (PSPP) and Procurement Process initiated by the DANECO, DOE, ERC, and NEA. They were selected to provide for intermediate and peak requirements since DANECO's peak demand varies the off-peak. Historically, the utilization of these PSA ranges from 40 to 80%. The actual billed overall monthly charge under these three (3) intermediate and peak-type PSAs went from 61,783,887.77 P/kWh to 80,232,780.47 P/kWh within the same periods.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
PSALM CSEE - renewal (15MW)	Intermediate	Power Sector Assets and Liabilities Management Corporation	6.00	65,700	12/26/2020	12/25/2025
EUROHYDRO (2.4MW)	Base	Other	2.40	21,024	9/26/2021	9/26/2026

The Contract for the Supply of Electric Energy between PSALM and DANECO will be expired in December 2020. Hence, DANECO requests to renew its CSEE for another 5-year contract period from 2021 to 2025. PSALM is selected to provide intermediate requirements due to rising demand during peak hours based on the DANECO's 24-Hour Load Profile. Historically, the utilization of the PSA ranged from 50% to 95%.

The RESA with Euro Hydro was procured through the Competitive Selection Process. It was selected to provide Renewable Energy base requirement as part of DANECO's Renewable Portfolio Standard compliance. Historically, the utilization of the said RESA is 100%.

	GENCO 1 (15 MW)	GENCO 2 (15 MW)	GENCO 3 (20 MW)	GENCO 4 (15 MW)	GENCO 5 (15 MW)	GENCO 6 (20 MW)	GENCO 7 (15 MW)
Type	Base	Base	Base	Peaking	Base	Intermediate	Base
Minimum MW	6.00	6.00	8.00	4.00	6.00	8.00	6.00
Minimum MWh/yr	52,560	52,560	70,080	26,280	52,560	70,080	52,560
PSA Start	3/26/2021	9/26/2021	12/26/2023	4/26/2025	12/26/2025	6/26/2026	10/26/2027
PSA End	3/25/2036	9/25/2036	12/25/2033	4/25/2035	12/25/2035	6/25/2036	10/25/2037
Publication	9/20/2020	5/26/2021	3/26/2023	9/26/2024	3/26/2025	11/26/2025	1/26/2027
Pre-bid	10/11/2020	6/16/2021	4/16/2023	10/17/2024	4/16/2025	12/17/2025	2/16/2027
Opening	12/10/2020	8/15/2021	6/15/2023	12/16/2024	6/15/2025	2/15/2026	4/17/2027
Awarding	1/9/2021	9/14/2021	7/15/2023	1/15/2025	7/15/2025	3/17/2026	5/17/2027
PSA Signing	2/8/2021	10/14/2021	8/14/2023	2/14/2025	8/14/2025	4/16/2026	6/16/2027
Joint Filing	2/17/2021	10/23/2021	8/23/2023	2/23/2025	8/23/2025	4/25/2026	6/25/2027



For the procurement of GENCO 1 (15 MW) of supply planned to be available on March 26, 2021, the first publication or launch of CSP will be on September 20, 2020. Joint filing is scheduled on February 17, 2021, or 150 days later, per DOE's 2018 CSP Policy.

For the procurement of GENCO 2 (15 MW) of supply planned to be available on September 26, 2021, the first publication or launch of CSP will be on May 26, 2021. Joint filing is scheduled on October 23, 2021, or 150 days later, per DOE's 2018 CSP Policy.

For the procurement of GENCO 3 (20 MW) of supply planned to be available on December 26, 2023, the first publication or launch of CSP will be on March 26, 2023. Joint filing is scheduled on October 23, 2023, or 150 days later, per DOE’s 2018 CSP Policy.

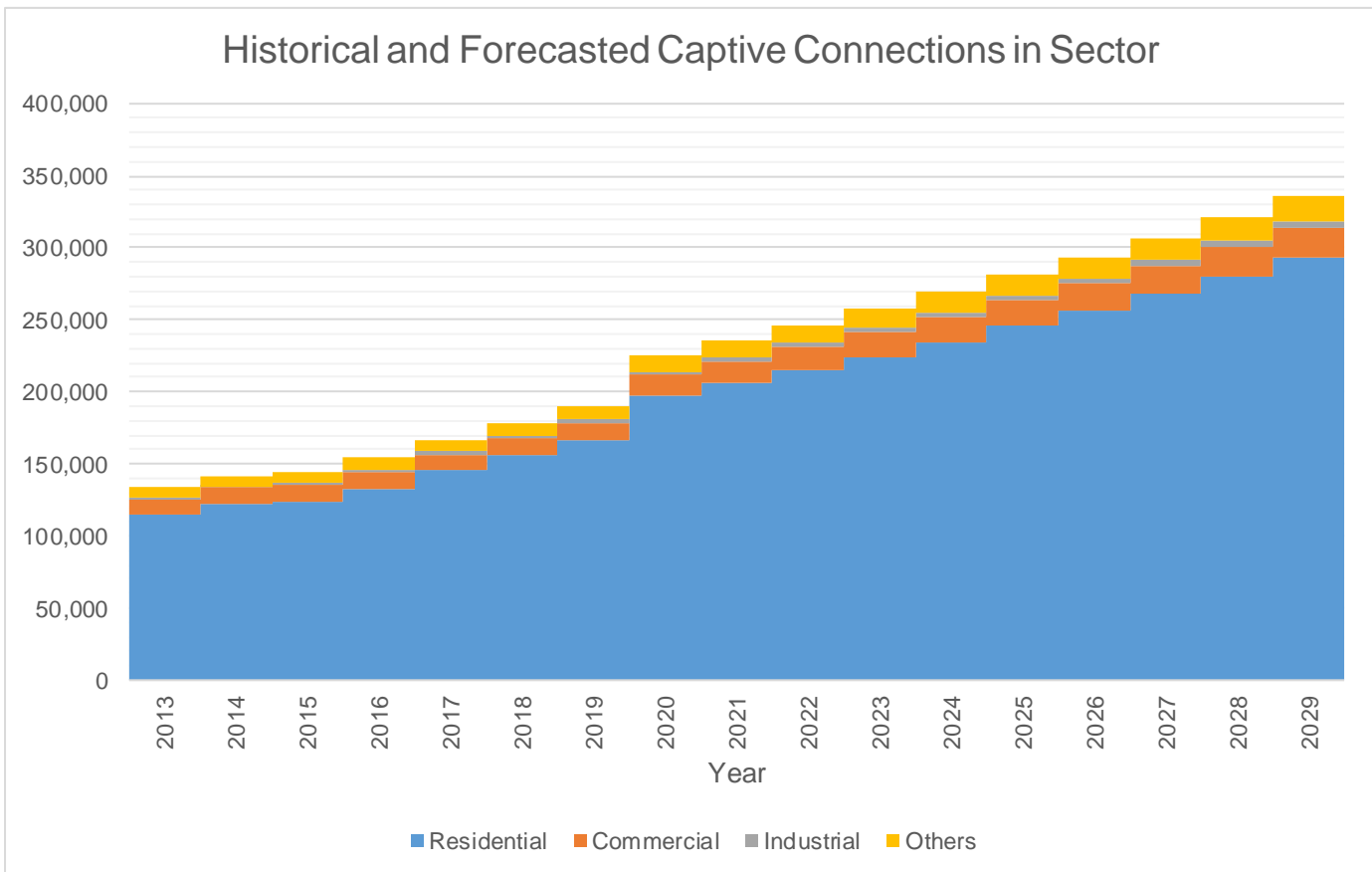
For the procurement of GENCO 4 (15 MW) of supply planned to be available on April 26, 2025, the first publication or launch of CSP will be on September 26, 2024. Joint filing is scheduled on February 23, 2025, or 150 days later, per DOE’s 2018 CSP Policy.

For the procurement of GENCO 5 (15 MW) of supply planned to be available on December 26, 2025, the first publication or launch of CSP will be on March 26, 2025. Joint filing is scheduled on August 23, 2025, or 150 days later, per DOE’s 2018 CSP Policy.

For the procurement of GENCO 6 (20 MW) of supply planned to be available on June 26, 2026, the first publication or launch of CSP will be on November 26, 2025. Joint filing is scheduled on April 25, 2026, or 150 days later, per DOE’s 2018 CSP Policy.

For the procurement of GENCO 7 (15 MW) of supply planned to be available on October 26, 2027, the first publication or launch of CSP will be on January 26, 2027. Joint filing is scheduled on June 25, 2027, or 150 days later, per DOE’s 2018 CSP Policy.

Captive Customer Connections



The numbers of residential, commercial, industrial, and other connections are expected to grow at a rate of 4.5% annually. Residential customer class is expected to account for 87.22% of the total consumption, while low and high voltage is 11.61% and 1.17%.