

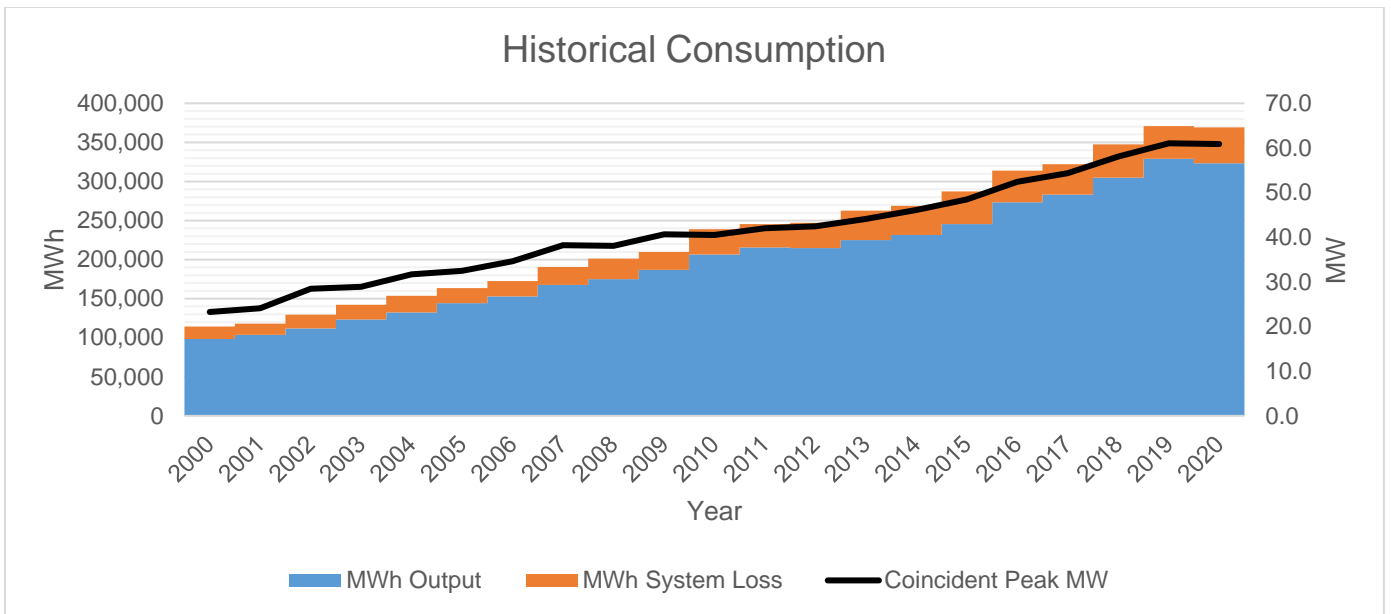
# **Power Supply Procurement Plan [2021]**

**[NORECO II]**

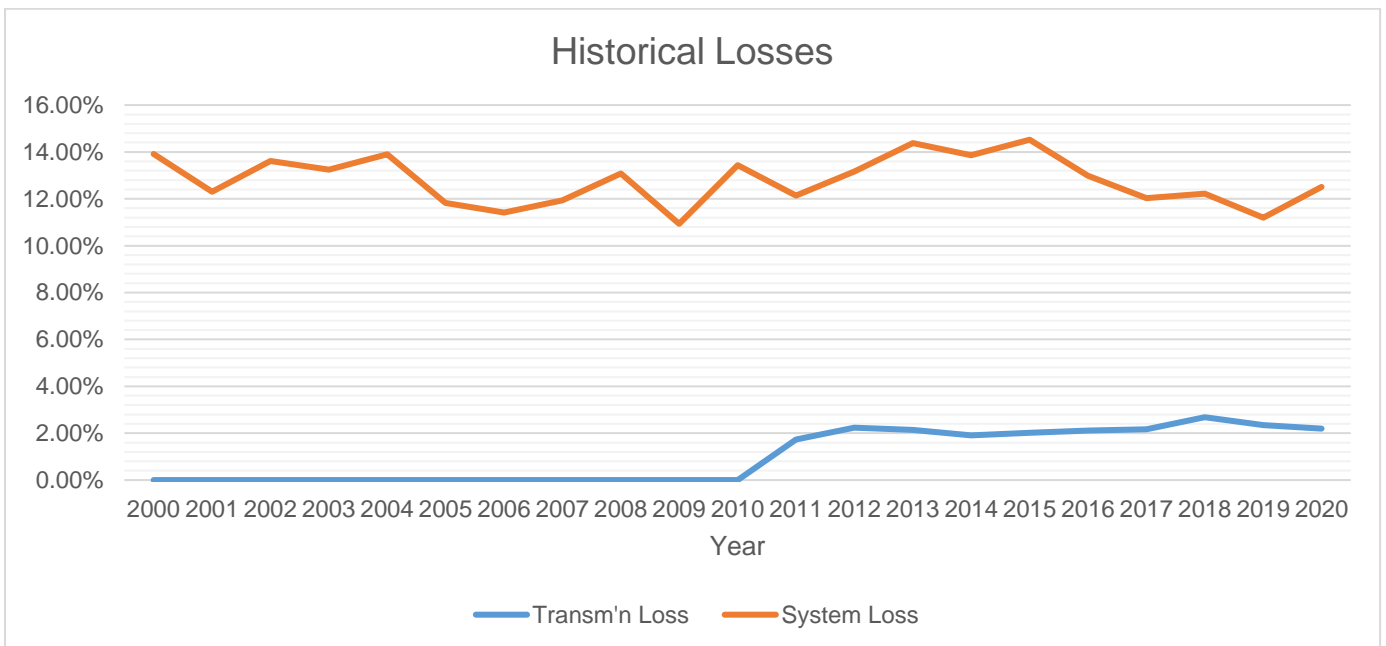
## Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	23.27	114,235	0	114,235	98,333	15,901	56%	0.00%	0.00%	13.92%
2001	24.13	118,121	0	118,121	103,592	14,529	56%	0.00%	0.00%	12.30%
2002	28.49	129,547	0	129,547	111,905	17,642	52%	0.00%	0.00%	13.62%
2003	28.91	142,198	0	142,198	123,365	18,833	56%	0.00%	0.00%	13.24%
2004	31.71	153,694	0	153,694	132,321	21,373	55%	0.00%	0.00%	13.91%
2005	32.48	163,433	0	163,433	144,108	19,326	57%	0.00%	0.00%	11.82%
2006	34.65	172,615	0	172,615	152,913	19,702	57%	0.00%	0.00%	11.41%
2007	38.19	190,561	0	190,561	167,811	22,750	57%	0.00%	0.00%	11.94%
2008	38.10	201,316	0	201,316	174,976	26,339	60%	0.00%	0.00%	13.08%
2009	40.65	209,836	0	209,836	186,895	22,941	59%	0.00%	0.00%	10.93%
2010	40.55	238,754	0	238,754	206,676	32,078	67%	0.00%	0.00%	13.44%
2011	42.02	249,697	69,407	245,370	215,603	29,767	67%	0.00%	1.73%	12.13%
2012	42.43	252,727	-62,736	247,090	214,551	32,538	66%	0.00%	2.23%	13.17%
2013	44.08	268,475	-62,866	262,730	224,957	37,773	68%	0.00%	2.14%	14.38%
2014	46.14	273,882	-8,437	268,643	231,425	37,218	66%	0.00%	1.91%	13.85%
2015	48.46	293,150	25,573	287,257	245,545	41,713	68%	0.00%	2.01%	14.52%
2016	52.44	320,867	51,986	314,095	273,306	40,789	68%	0.00%	2.11%	12.99%
2017	54.35	329,221	55,188	322,076	283,323	38,753	68%	0.00%	2.17%	12.03%
2018	58.07	357,074	81,377	347,497	305,056	42,442	68%	0.00%	2.68%	12.21%
2019	61.05	379,681	104,002	370,757	329,250	41,507	69%	0.00%	2.35%	11.20%
2020	60.87	377,678	97,453	369,385	323,162	46,224	69%	0.00%	2.20%	12.51%

Peak Demand increased from 23.27 MW in 2000 to 60.87 MW in 2020 at a rate of 4.93%. MWh Offtake increased from 114,235 MWh in 2000 to 377,678 MWh in 2020 at a rate of 6.16% due to the emerging increase of business establishments, commercial complexes and opening of large industrial factories. Within the same period, the Load Factor ranged from 56% to 69%. There was an abrupt change in consumption in 2020 due to the sudden decrease in demand of commercial and industrial types of consumers caused by the COVID-19 Pandemic.

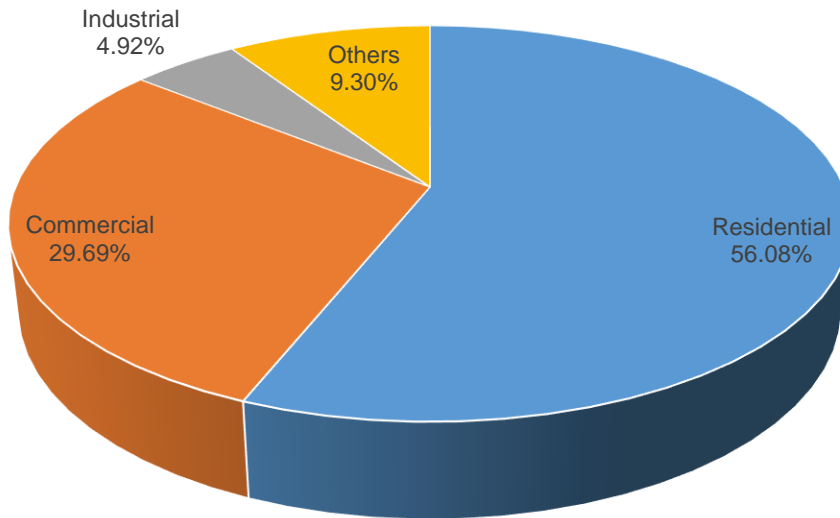


MWh Output increased from year 2000 to year 2020 at a rate of 6.13%, while MWh System Loss increased at a rate of 5.48% within the same period.



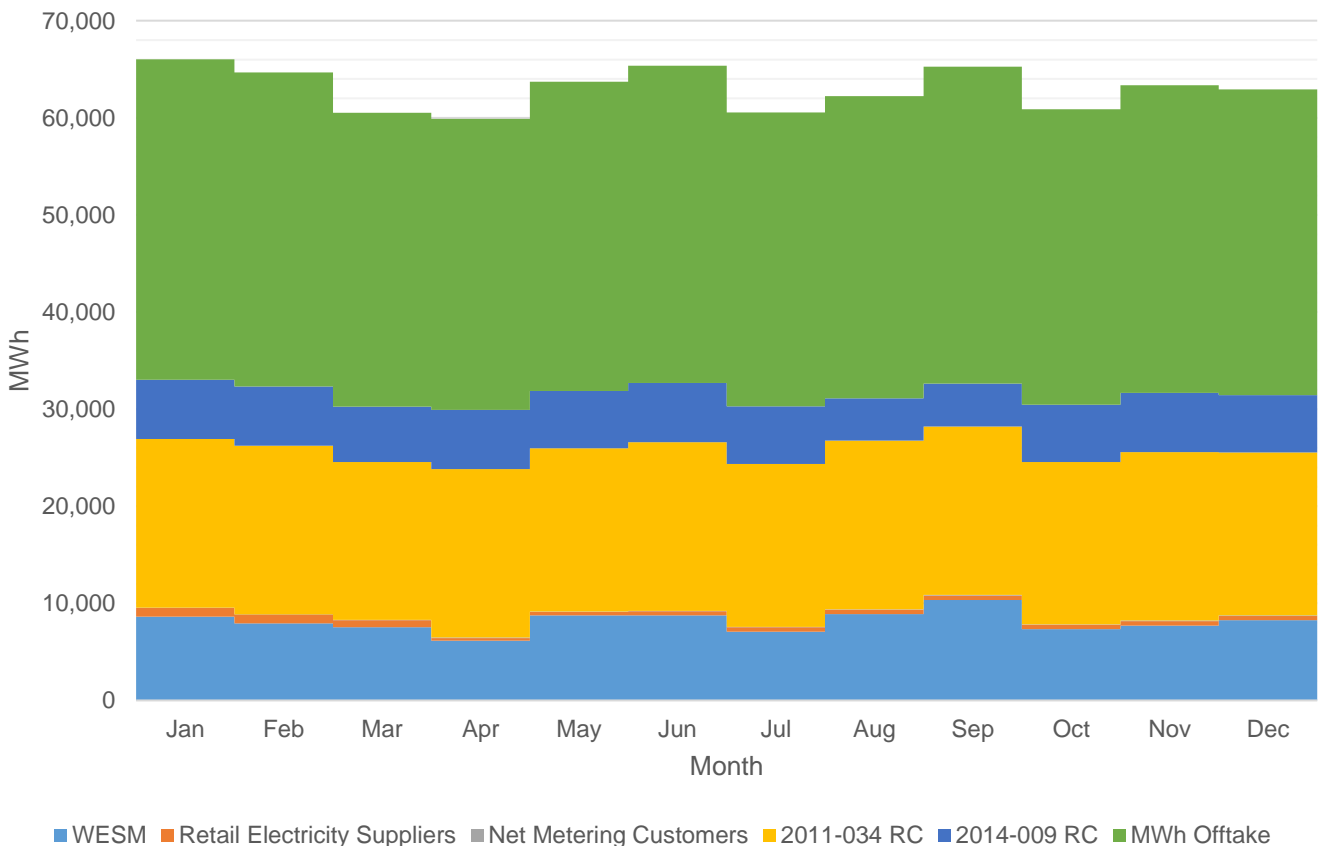
Historically, Transmission Loss ranged from 0% to 2.68% while System Loss ranged from 10.93% to 14.52%. Transmission Loss peaked at 2.68% on year 2018 because of congested lines. System Loss peaked at 14.52% on year 2015 because of the overloaded substations and burdened distribution feeder lines.

### Previous Year's Shares of Energy Sales



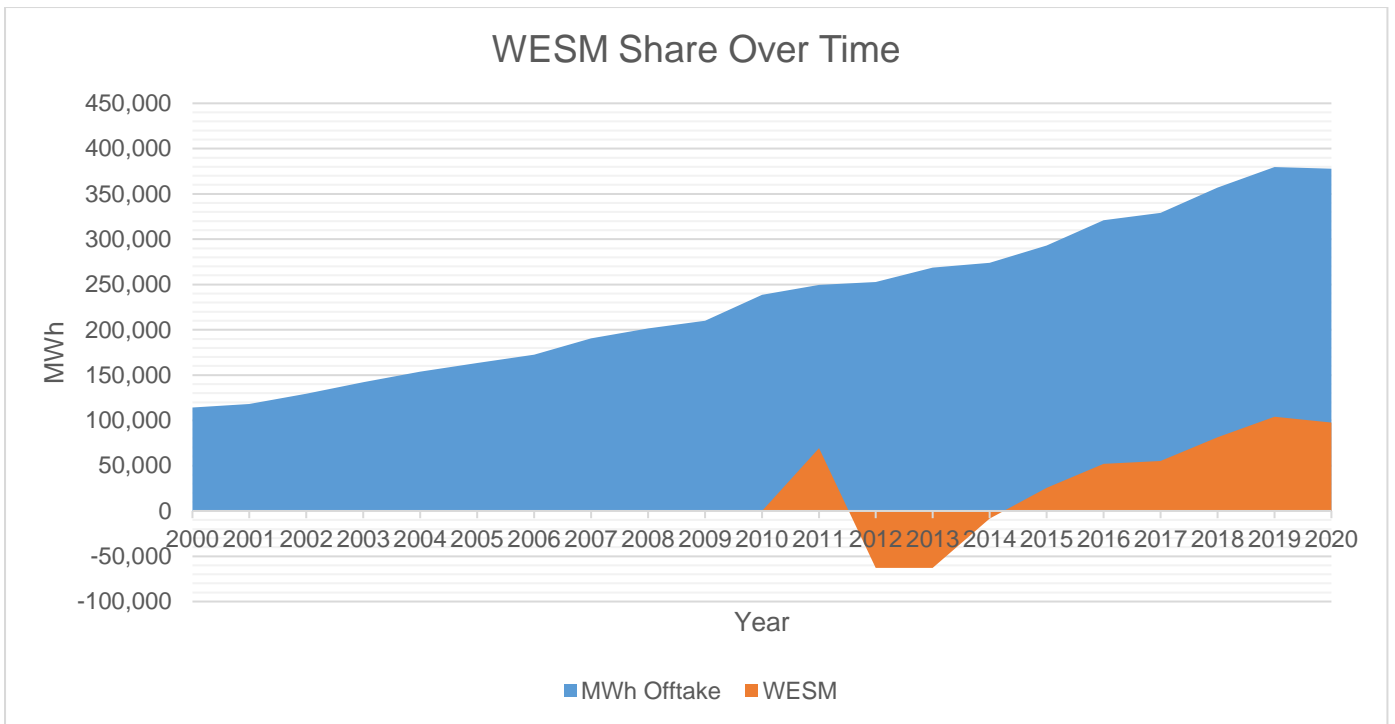
Residential customers account for the bulk of energy sales at 56.08% due to the high number of connections and consumption. In contrast, industrial customers accounted for only 4.92% of energy sales due to the low number of connections.

### MWh Offtake for Last Historical Year



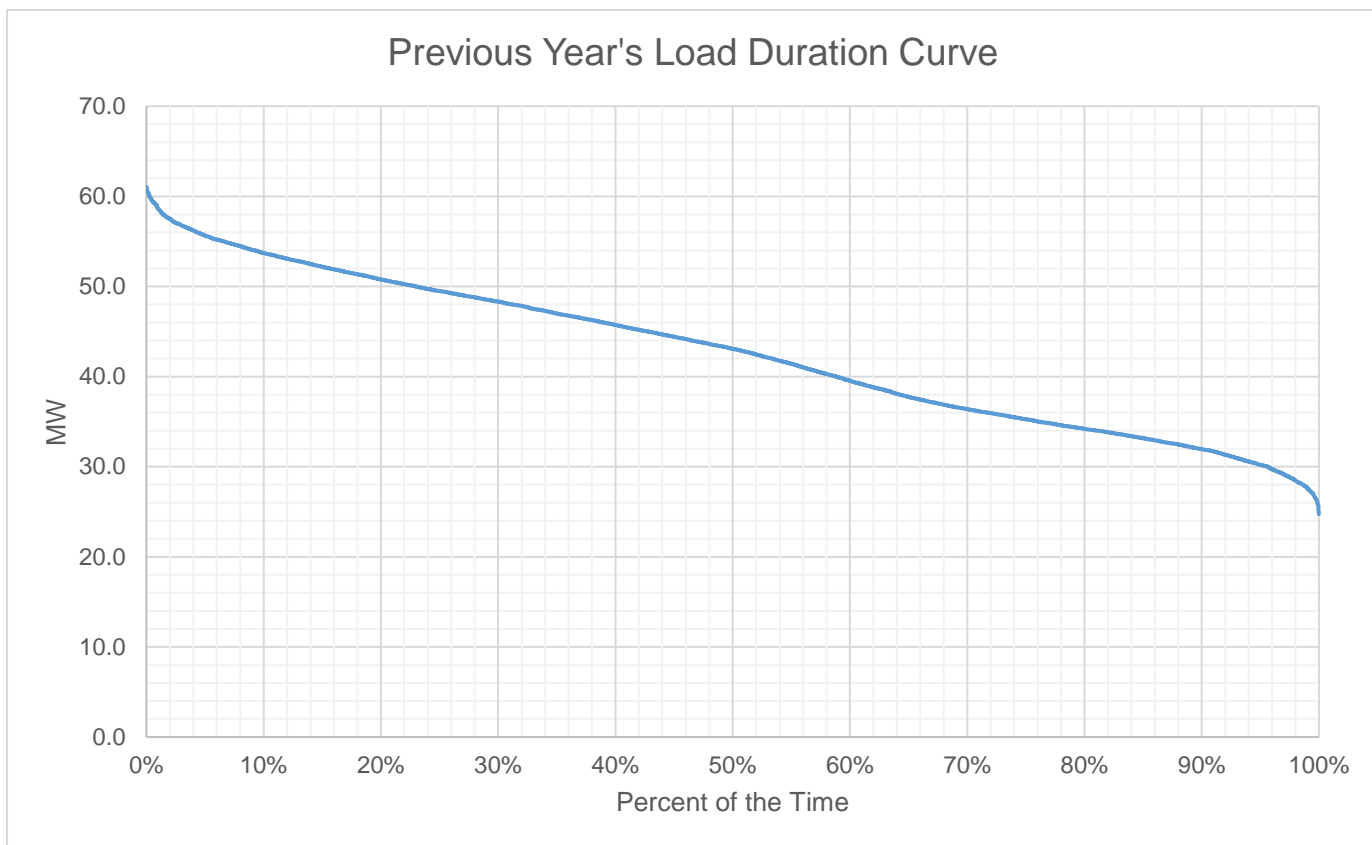
For 2020, the total Offtake for the last historical year is higher than the quantity stipulated in the PSA. The PSA with GCGI (ERC 2011-034 RC) and KSPC (ERC 2014-009 RC) accounts for the bulk of MWh Offtake.

## WESM Share Over Time

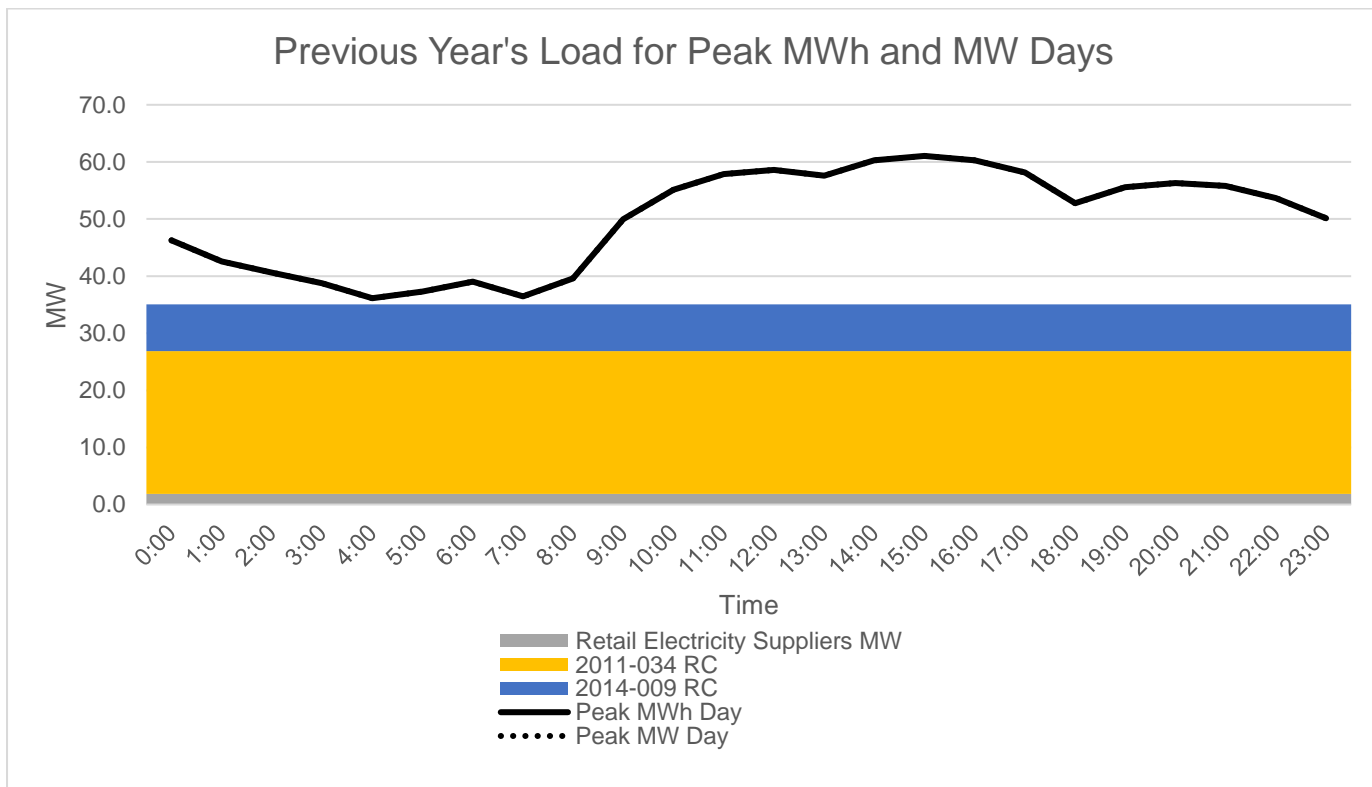


WESM Offtake increased from 25,573 MWh in 2015 to 97,453 MWh in 2020 at a rate of 35.68% due to increase in load while maintaining existing contract. The share of WESM in the total Offtake ranged from 8.72% to 27.39%. The net WESM transaction is negative from 2012 to 2014 because of over-contracting resulting to re-negotiation of agreement.

# Previous Year's Load Profile

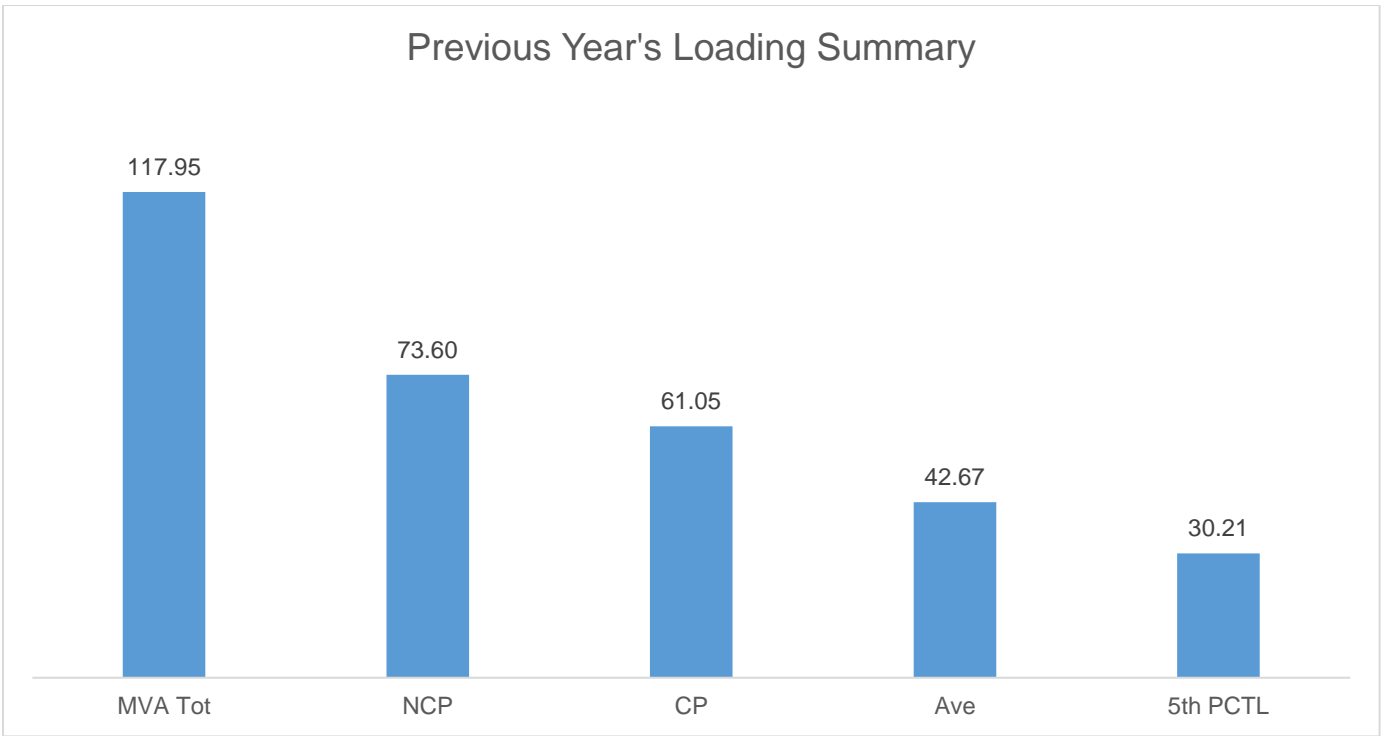


Based on the Load Duration Curve, the minimum load is 24.8 MW and the maximum load is 61.05 MW for the last historical year.



Peak MW occurred on June due to summer season. Peak daily MWh occurred on 3:00pm due to the high contribution of commercial loads. As shown in the Load Curves, available supply is lower than the Peak Demand.

## Previous Year's Loading Summary



The Non-coincident Peak Demand is 67.45 MW, which is around 57.16% of the total substation capacity of 118 MVA at a power factor of 96.41%. The load factor or the ratio between the Average Load of 42.67 MW and the Non-coincident Peak Demand is 63.27%. A safe estimate of the true minimum load is the fifth percentile load of 30.21 MW which is 44.79% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
Bagacay SS1	20	12.841
Bagacay SS2	30	15.044
Banaba SS	3.75	1.025
Bayawan SS	10	6.561
Dauin SS	4.2	3.978
Pulantubig SS1 & SS2	30	22.387
Siaton SS	10	4.012
Tanjay SS	10	7.751

The substations loaded at above 70% are the Pulantubig 2 and Dauin substations. These loading problems will be solved by putting up another 10MVA substation in Sibulan to address the critical load of the Pulantubig substation 2 and uprating the Dauin substation from 4.2MVA to 10MVA

## 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	53.99	33.20	0.00	0.000	1.84	64%	64%	-18.95
	Feb	51.81	33.20	0.00	0.000	1.76	66%	66%	-16.85
	Mar	55.29	33.20	0.00	0.000	1.83	62%	62%	-20.26
	Apr	60.24	33.20	0.00	0.000	1.51	57%	57%	-25.52
	May	63.25	33.20	0.00	0.000	1.70	54%	54%	-28.35
	Jun	63.39	33.20	0.00	0.000	2.17	54%	54%	-28.03
	Jul	60.23	33.20	0.00	0.000	2.00	57%	57%	-25.03
	Aug	62.64	33.20	0.00	0.000	2.00	55%	55%	-27.44
	Sep	62.86	33.20	0.00	0.000	2.03	55%	55%	-27.63
	Oct	63.38	33.20	0.00	0.000	2.05	54%	54%	-28.13
	Nov	61.15	33.20	0.00	0.000	2.06	56%	56%	-25.89
	Dec	59.20	33.20	0.00	0.000	1.92	58%	58%	-24.08
2022	Jan	58.53	33.20	0.00	0.000	3.68	61%	61%	-21.65
	Feb	56.16	33.20	0.00	0.000	3.52	63%	63%	-19.44
	Mar	59.94	33.20	0.00	0.000	3.65	59%	59%	-23.08
	Apr	65.30	33.20	0.00	0.000	3.02	53%	53%	-29.07
	May	68.56	33.20	0.00	0.000	3.40	51%	51%	-31.96
	Jun	68.72	25.00	0.00	28.000	4.34	39%	82%	-11.39
	Jul	65.29	25.00	0.00	28.000	4.00	41%	86%	-8.29
	Aug	67.90	25.00	0.00	28.000	3.99	39%	83%	-10.91
	Sep	68.15	25.00	0.00	28.000	4.07	39%	83%	-11.08
	Oct	68.70	25.00	0.00	28.000	4.11	39%	82%	-11.60
	Nov	66.29	25.00	0.00	28.000	4.12	40%	85%	-9.17
	Dec	64.17	25.00	0.00	28.000	3.84	41%	88%	-7.33
2023	Jan	62.66	25.00	0.00	28.000	4.35	43%	91%	-5.31
	Feb	60.12	25.00	0.00	28.000	4.16	45%	95%	-2.96
	Mar	64.16	25.00	0.00	28.000	4.31	42%	89%	-6.85
	Apr	69.90	25.00	0.00	28.000	3.57	38%	80%	-13.33



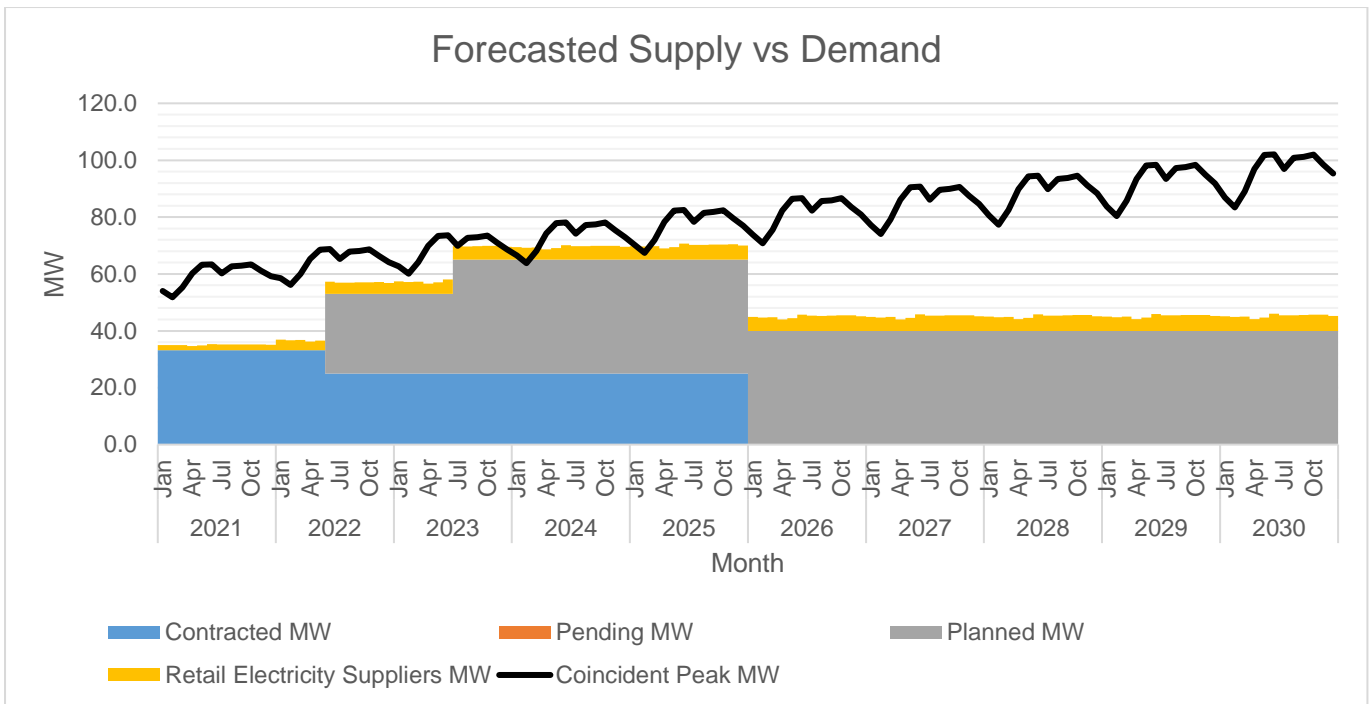
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	May	73.40	25.00	0.00	28.000	4.01	36%	76%	-16.39
	Jun	73.57	25.00	0.00	28.000	5.12	37%	77%	-15.45
	Jul	69.90	25.00	0.00	40.000	4.72	38%	100%	-0.17
	Aug	72.69	25.00	0.00	40.000	4.71	37%	96%	-2.98
	Sep	72.95	25.00	0.00	40.000	4.80	37%	95%	-3.15
	Oct	73.55	25.00	0.00	40.000	4.84	36%	95%	-3.71
	Nov	70.96	25.00	0.00	40.000	4.86	38%	98%	-1.10
	Dec	68.70	25.00	0.00	40.000	4.53	39%	101%	0.83
2024	Jan	66.54	25.00	0.00	40.000	4.39	40%	105%	2.85
	Feb	63.84	25.00	0.00	40.000	4.20	42%	109%	5.36
	Mar	68.13	25.00	0.00	40.000	4.35	39%	102%	1.22
	Apr	74.23	25.00	0.00	40.000	3.60	35%	92%	-5.63
	May	77.94	25.00	0.00	40.000	4.05	34%	88%	-8.89
	Jun	78.12	25.00	0.00	40.000	5.17	34%	89%	-7.95
	Jul	74.22	25.00	0.00	40.000	4.77	36%	94%	-4.45
	Aug	77.19	25.00	0.00	40.000	4.76	35%	90%	-7.43
	Sep	77.47	25.00	0.00	40.000	4.85	34%	90%	-7.62
	Oct	78.10	25.00	0.00	40.000	4.89	34%	89%	-8.21
	Nov	75.35	25.00	0.00	40.000	4.91	35%	92%	-5.44
	Dec	72.95	25.00	0.00	40.000	4.57	37%	95%	-3.37
2025	Jan	70.23	25.00	0.00	40.000	4.83	38%	99%	-0.41
	Feb	67.39	25.00	0.00	40.000	4.62	40%	104%	2.23
	Mar	71.92	25.00	0.00	40.000	4.79	37%	97%	-2.13
	Apr	78.35	25.00	0.00	40.000	3.96	34%	87%	-9.39
	May	82.27	25.00	0.00	40.000	4.45	32%	84%	-12.81
	Jun	82.46	25.00	0.00	40.000	5.68	33%	85%	-11.78
	Jul	78.35	25.00	0.00	40.000	5.25	34%	89%	-8.10
	Aug	81.48	25.00	0.00	40.000	5.24	33%	85%	-11.25
	Sep	81.77	25.00	0.00	40.000	5.33	33%	85%	-11.44
	Oct	82.44	25.00	0.00	40.000	5.38	32%	84%	-12.06

		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	Nov	79.54	25.00	0.00	40.000	5.40	34%	88%	-9.14
	Dec	77.00	25.00	0.00	40.000	5.03	35%	90%	-6.97
2026	Jan	73.79	0.00	0.00	40.000	4.88	0%	58%	-28.91
	Feb	70.80	0.00	0.00	40.000	4.67	0%	60%	-26.13
	Mar	75.56	0.00	0.00	40.000	4.84	0%	57%	-30.72
	Apr	82.32	0.00	0.00	40.000	4.00	0%	51%	-38.31
	May	86.43	0.00	0.00	40.000	4.50	0%	49%	-41.93
	Jun	86.63	0.00	0.00	40.000	5.74	0%	49%	-40.89
	Jul	82.31	0.00	0.00	40.000	5.30	0%	52%	-37.01
	Aug	85.60	0.00	0.00	40.000	5.29	0%	50%	-40.32
	Sep	85.91	0.00	0.00	40.000	5.39	0%	50%	-40.52
	Oct	86.61	0.00	0.00	40.000	5.44	0%	49%	-41.18
	Nov	83.56	0.00	0.00	40.000	5.46	0%	51%	-38.11
	Dec	80.90	0.00	0.00	40.000	5.08	0%	53%	-35.82
2027	Jan	77.22	0.00	0.00	40.000	4.93	0%	55%	-32.30
	Feb	74.09	0.00	0.00	40.000	4.71	0%	58%	-29.38
	Mar	79.08	0.00	0.00	40.000	4.88	0%	54%	-34.19
	Apr	86.15	0.00	0.00	40.000	4.04	0%	49%	-42.10
	May	90.45	0.00	0.00	40.000	4.54	0%	47%	-45.91
	Jun	90.66	0.00	0.00	40.000	5.80	0%	47%	-44.87
	Jul	86.14	0.00	0.00	40.000	5.35	0%	50%	-40.79
	Aug	89.59	0.00	0.00	40.000	5.34	0%	47%	-44.25
	Sep	89.91	0.00	0.00	40.000	5.44	0%	47%	-44.47
	Oct	90.64	0.00	0.00	40.000	5.49	0%	47%	-45.15
	Nov	87.45	0.00	0.00	40.000	5.51	0%	49%	-41.94
	Dec	84.66	0.00	0.00	40.000	5.13	0%	50%	-39.53
2028	Jan	80.55	0.00	0.00	40.000	4.97	0%	53%	-35.57
	Feb	77.29	0.00	0.00	40.000	4.76	0%	55%	-32.53
	Mar	82.48	0.00	0.00	40.000	4.93	0%	52%	-37.55
	Apr	89.86	0.00	0.00	40.000	4.08	0%	47%	-45.77

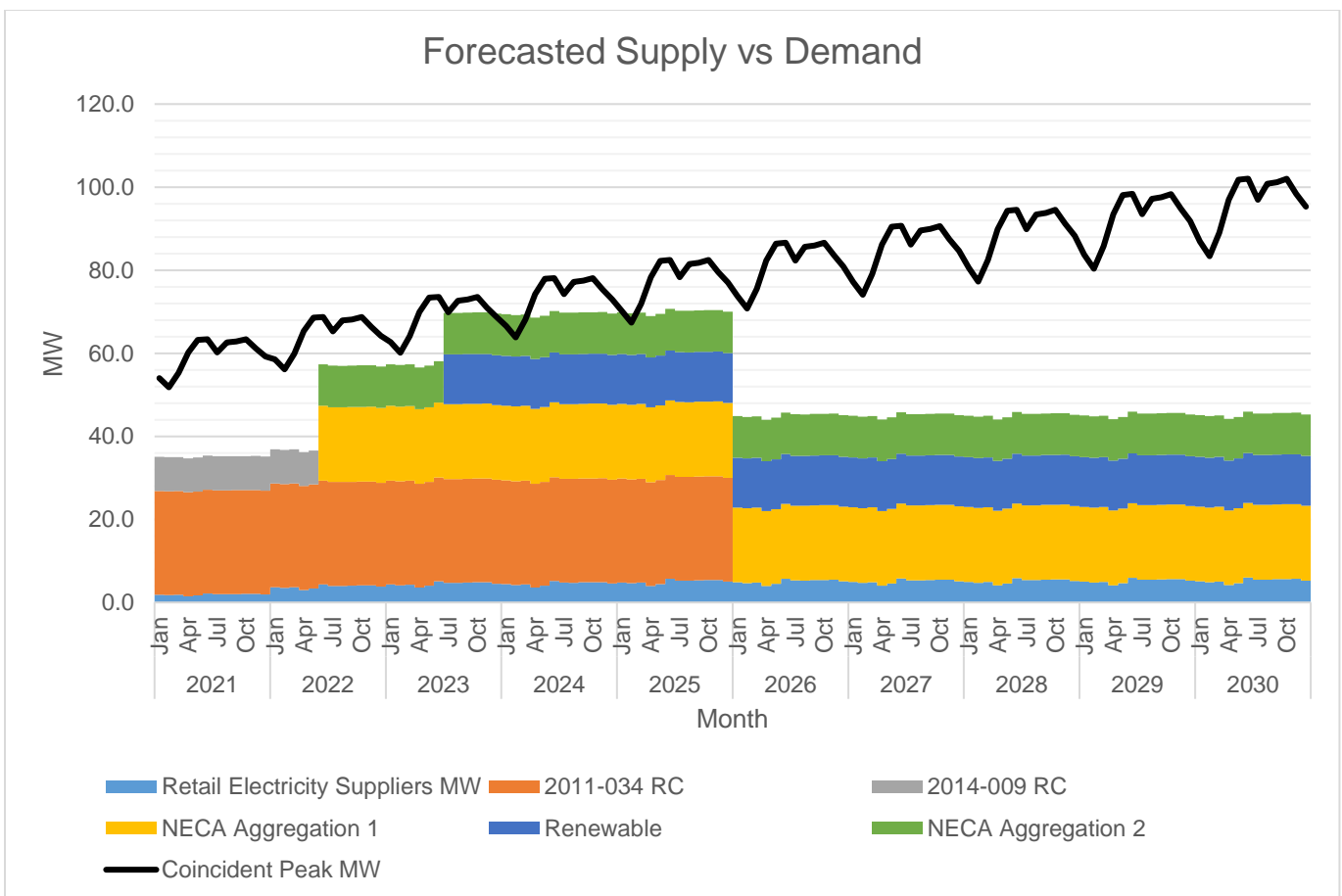
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Retail Electricity Suppliers MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
	May	94.35	0.00	0.00	40.000	4.59	0%	45%	-49.76
	Jun	94.57	0.00	0.00	40.000	5.86	0%	45%	-48.71
	Jul	89.85	0.00	0.00	40.000	5.41	0%	47%	-44.45
	Aug	93.45	0.00	0.00	40.000	5.39	0%	45%	-48.05
	Sep	93.78	0.00	0.00	40.000	5.49	0%	45%	-48.28
	Oct	94.55	0.00	0.00	40.000	5.55	0%	45%	-49.00
	Nov	91.22	0.00	0.00	40.000	5.57	0%	47%	-45.65
	Dec	88.31	0.00	0.00	40.000	5.18	0%	48%	-43.12
2029	Jan	83.78	0.00	0.00	40.000	5.02	0%	51%	-38.75
	Feb	80.38	0.00	0.00	40.000	4.81	0%	53%	-35.58
	Mar	85.79	0.00	0.00	40.000	4.98	0%	50%	-40.80
	Apr	93.46	0.00	0.00	40.000	4.13	0%	45%	-49.34
	May	98.13	0.00	0.00	40.000	4.64	0%	43%	-53.49
	Jun	98.36	0.00	0.00	40.000	5.92	0%	43%	-52.44
	Jul	93.45	0.00	0.00	40.000	5.46	0%	45%	-47.99
	Aug	97.19	0.00	0.00	40.000	5.45	0%	44%	-51.74
	Sep	97.54	0.00	0.00	40.000	5.55	0%	43%	-51.99
	Oct	98.34	0.00	0.00	40.000	5.60	0%	43%	-52.74
	Nov	94.88	0.00	0.00	40.000	5.62	0%	45%	-49.25
	Dec	91.85	0.00	0.00	40.000	5.24	0%	46%	-46.61
2030	Jan	86.91	0.00	0.00	40.000	5.07	0%	49%	-41.84
	Feb	83.39	0.00	0.00	40.000	4.86	0%	51%	-38.54
	Mar	89.00	0.00	0.00	40.000	5.03	0%	48%	-43.97
	Apr	96.96	0.00	0.00	40.000	4.17	0%	43%	-52.80
	May	101.81	0.00	0.00	40.000	4.68	0%	41%	-57.12
	Jun	102.05	0.00	0.00	40.000	5.97	0%	42%	-56.07
	Jul	96.95	0.00	0.00	40.000	5.51	0%	44%	-51.44
	Aug	100.83	0.00	0.00	40.000	5.50	0%	42%	-55.33
	Sep	101.19	0.00	0.00	40.000	5.60	0%	42%	-55.59
	Oct	102.02	0.00	0.00	40.000	5.66	0%	42%	-56.36

		<b>Coincident Peak MW</b>	<b>Contracted MW</b>	<b>Pending MW</b>	<b>Planned MW</b>	<b>Retail Electricity Suppliers MW</b>	<b>Existing Contracting Level</b>	<b>Target Contracting Level</b>	<b>MW Surplus / Deficit</b>
	Nov	98.43	0.00	0.00	40.000	5.68	0%	43%	-52.75
	Dec	95.29	0.00	0.00	40.000	5.29	0%	44%	-50.00

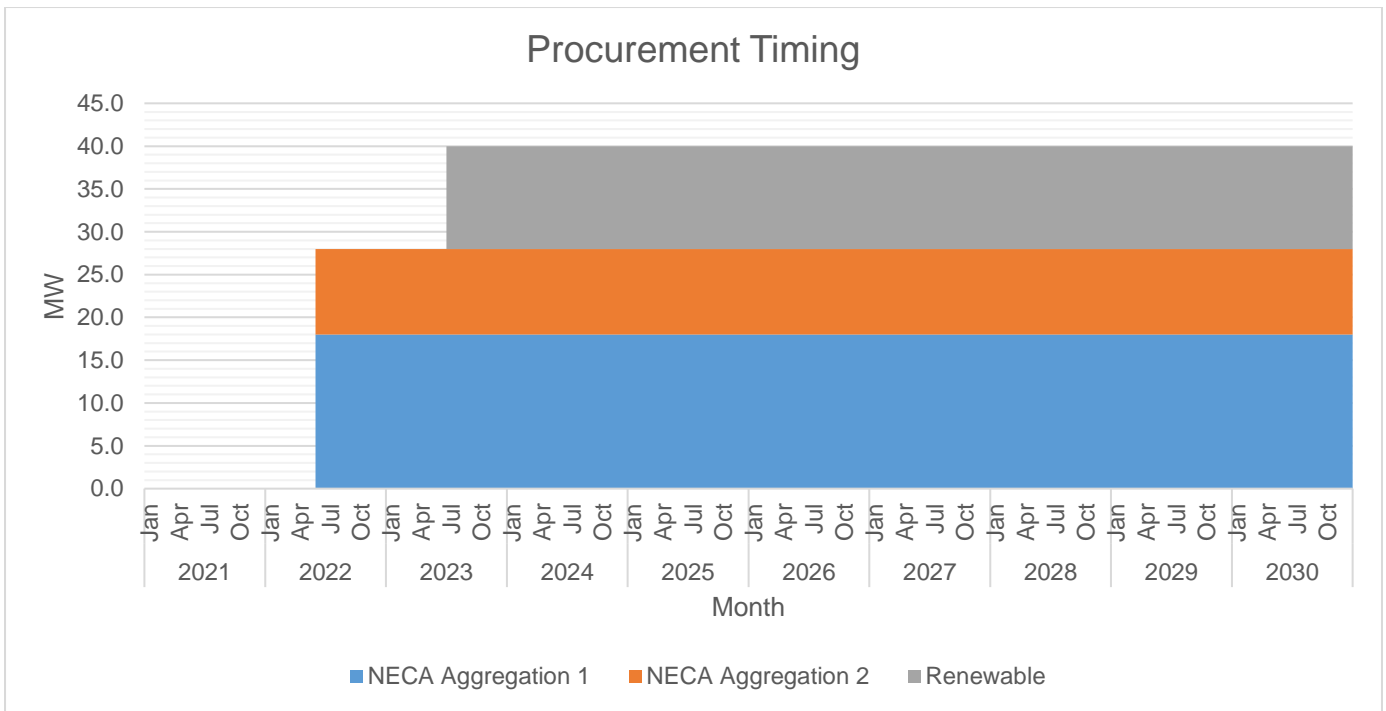
The Peak Demand was forecasted using Time Series regression and was assumed to occur on the month of June due to summer season. Monthly Peak Demand is at its lowest on the month of February due to lesser activities and time of the year. In general, Peak Demand is expected to grow at a rate of 4.59 % annually.



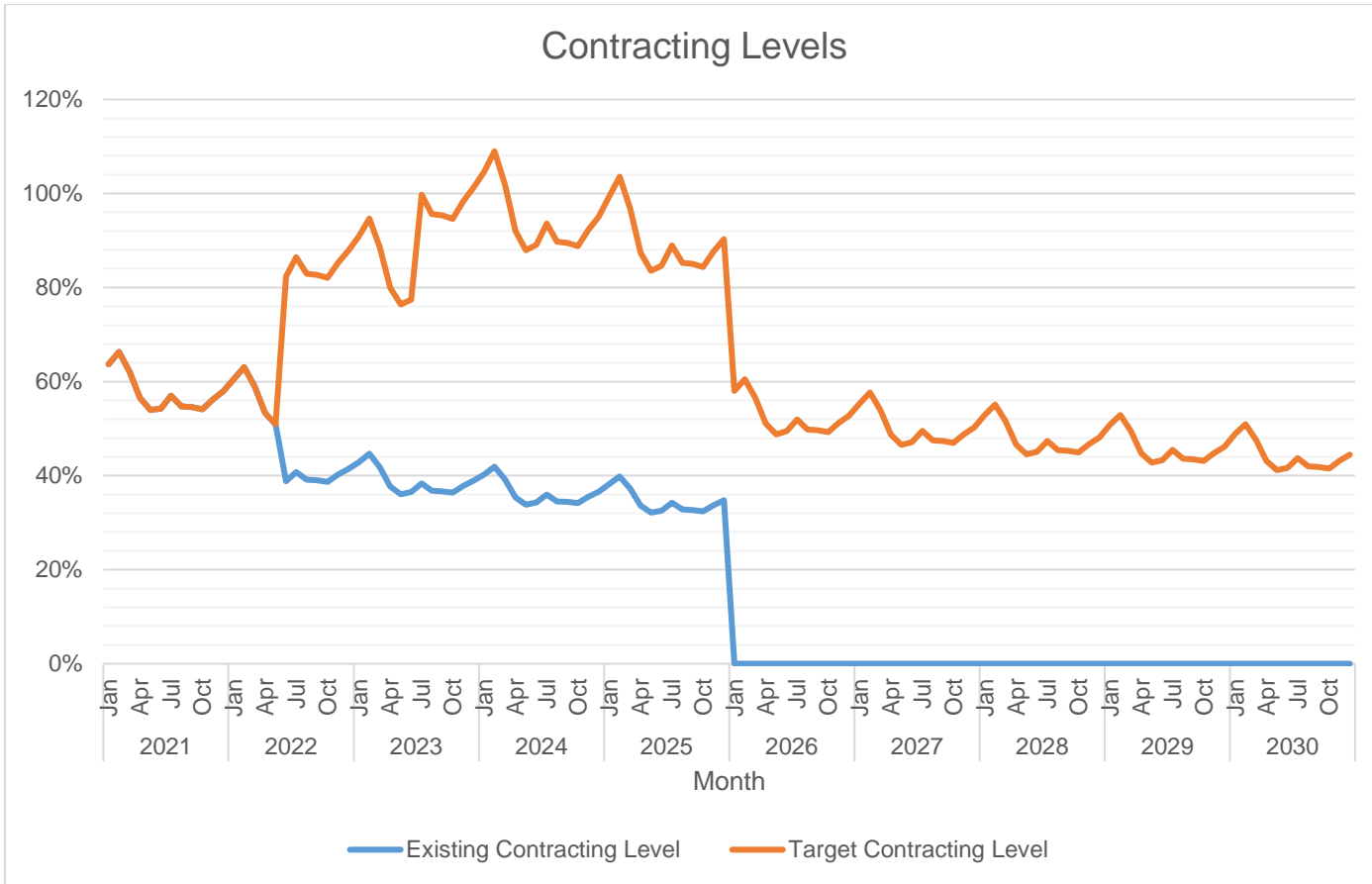
The available supply is generally below the Peak Demand. This is because the existing Power Supply Agreement is covering only the base load requirement and the excess will be taken from the market (IEMOP) with the anticipation of the migration of contestable customers due to RCOA.



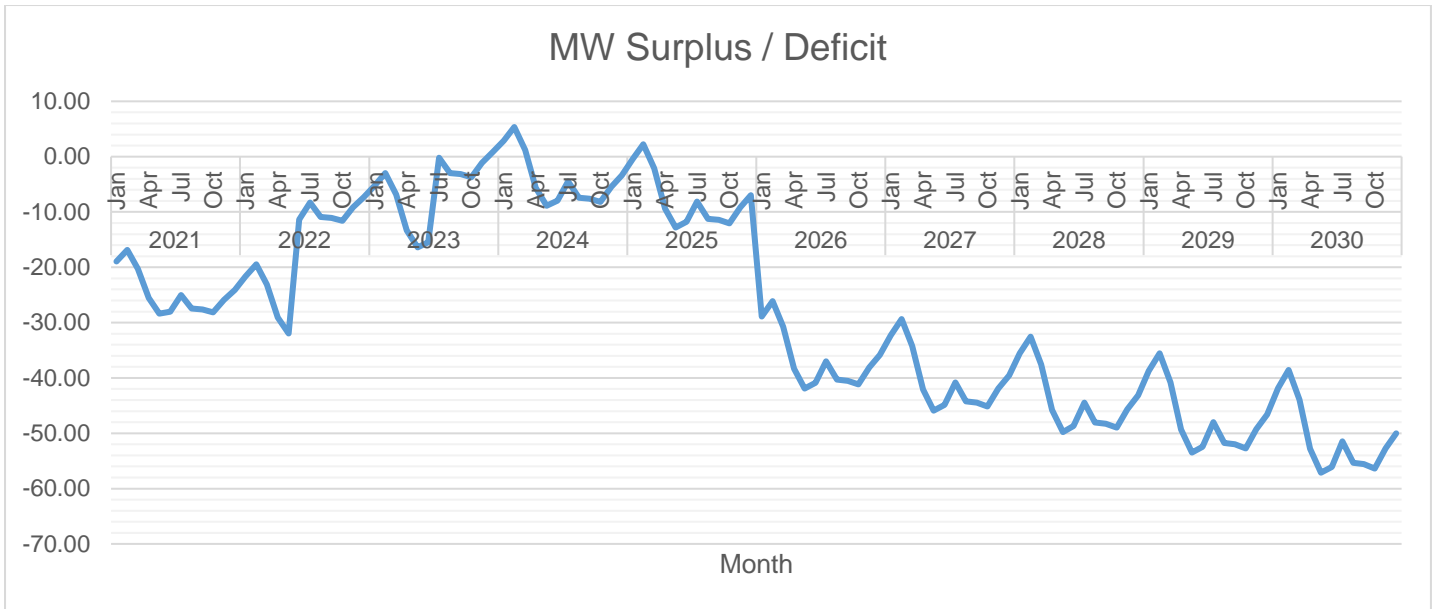
Of the available supply, the largest is 25 MW from Green Core Geothermal Inc. This is followed by 8.2 MW from KEPCO SPC Power Corporation.



The first wave of supply procurement will be for 18 MW (baseload) and 10 MW (peaking) planned to be available by June 26, 2022 by aggregator composed of Negros Island cooperatives. This will be followed by 12 MW (Renewable) planned to be available on July 26, 2023.



Currently, there is under-contracting by 45.46%. The highest target contracting level is 109% which is expected to occur on February 2024. The lowest target contracting level is 39% which is expected to occur on June 2022.



Currently, there is under-contacting by 27.67 MW. The highest deficit is 57.12 MW which is expected to occur on the month of May 2030. The lowest deficit is 0.17 MW which is expected to occur on the month of July 2023.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2021	Jan	29,802	25,414	3,718	2.25%	12.76%
	Feb	30,195	25,367	4,153	2.23%	14.07%
	Mar	28,935	25,085	3,217	2.19%	11.37%
	Apr	33,882	28,790	4,427	1.96%	13.33%
	May	35,678	30,473	4,426	2.18%	12.68%
	Jun	37,937	31,580	5,544	2.14%	14.93%
	Jul	33,628	29,003	3,919	2.10%	11.91%
	Aug	34,689	29,839	4,124	2.09%	12.14%
	Sep	35,865	30,822	4,247	2.22%	12.11%
	Oct	35,099	31,303	3,072	2.06%	8.94%
	Nov	35,513	31,775	2,977	2.14%	8.57%
	Dec	34,377	31,491	2,138	2.18%	6.36%
2022	Jan	33,055	27,975	4,337	2.25%	13.42%
	Feb	33,122	28,286	4,096	2.23%	12.65%
	Mar	31,595	27,735	3,168	2.19%	10.25%
	Apr	36,949	31,804	4,420	1.96%	12.20%
	May	38,652	33,350	4,457	2.18%	11.79%
	Jun	41,039	34,518	5,641	2.14%	14.05%
	Jul	36,359	31,649	3,947	2.10%	11.09%
	Aug	37,482	32,535	4,162	2.09%	11.34%
	Sep	38,660	33,497	4,305	2.22%	11.39%
	Oct	37,788	33,941	3,069	2.06%	8.29%
	Nov	38,231	34,444	2,967	2.14%	7.93%
	Dec	36,957	34,061	2,092	2.18%	5.79%
2023	Jan	35,409	30,198	4,414	2.25%	12.75%
	Feb	35,435	30,476	4,168	2.23%	12.03%
	Mar	33,758	29,817	3,202	2.19%	9.70%

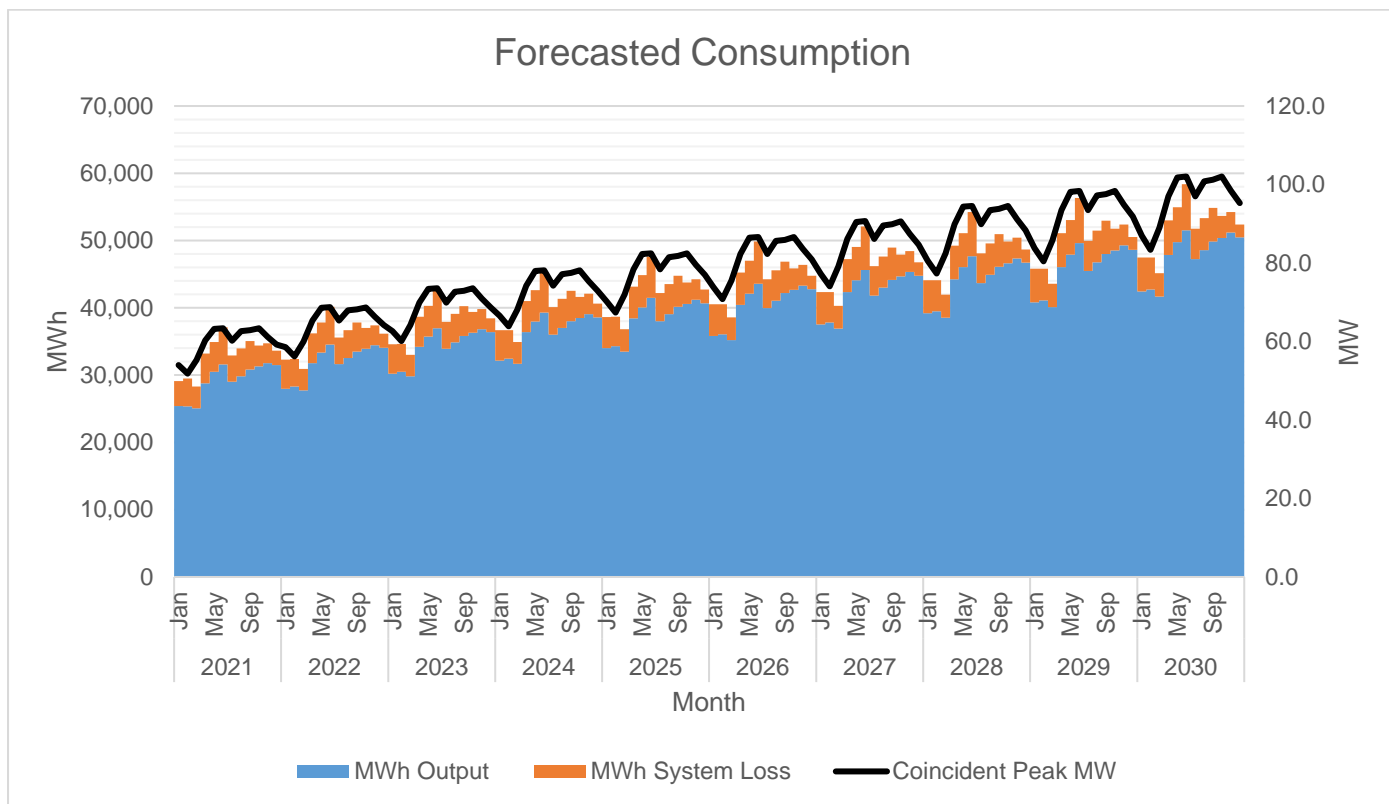
		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Apr	39,475	34,198	4,502	1.96%	11.63%
	May	41,198	35,745	4,554	2.18%	11.30%
	Jun	43,728	36,991	5,800	2.14%	13.56%
	Jul	38,743	33,904	4,025	2.10%	10.61%
	Aug	39,936	34,851	4,249	2.09%	10.87%
	Sep	41,155	35,838	4,403	2.22%	10.94%
	Oct	40,211	36,281	3,101	2.06%	7.88%
	Nov	40,686	36,823	2,991	2.14%	7.51%
	Dec	39,310	36,380	2,073	2.18%	5.39%
2024	Jan	37,536	32,173	4,517	2.25%	12.31%
	Feb	37,544	32,443	4,262	2.23%	11.61%
	Mar	35,721	31,680	3,259	2.19%	9.33%
	Apr	41,826	36,406	4,599	1.96%	11.22%
	May	43,573	37,958	4,663	2.18%	10.94%
	Jun	46,244	39,283	5,970	2.14%	13.19%
	Jul	40,976	36,002	4,114	2.10%	10.26%
	Aug	42,239	37,008	4,346	2.09%	10.51%
	Sep	43,508	38,033	4,508	2.22%	10.60%
	Oct	42,502	38,486	3,140	2.06%	7.54%
	Nov	43,008	39,065	3,021	2.14%	7.18%
	Dec	41,542	38,577	2,060	2.18%	5.07%
2025	Jan	39,543	34,027	4,626	2.25%	11.97%
	Feb	39,540	34,297	4,360	2.23%	11.28%
	Mar	37,635	33,503	3,308	2.19%	8.99%
	Apr	44,011	38,440	4,707	1.96%	10.91%
	May	45,846	40,073	4,771	2.18%	10.64%
	Jun	48,653	41,472	6,138	2.14%	12.89%
	Jul	43,113	38,007	4,202	2.10%	9.95%
	Aug	44,443	39,072	4,441	2.09%	10.21%
	Sep	45,767	40,139	4,611	2.22%	10.30%
	Oct	44,703	40,606	3,177	2.06%	7.26%
	Nov	45,240	41,221	3,049	2.14%	6.89%
	Dec	43,691	40,694	2,045	2.18%	4.79%
2026	Jan	41,468	35,804	4,730	2.25%	11.67%
	Feb	41,458	36,078	4,453	2.23%	10.99%
	Mar	39,452	35,229	3,359	2.19%	8.70%
	Apr	46,138	40,426	4,806	1.96%	10.62%
	May	48,038	42,116	4,873	2.18%	10.37%
	Jun	50,978	43,588	6,297	2.14%	12.62%
	Jul	45,177	39,946	4,283	2.10%	9.68%
	Aug	46,573	41,068	4,530	2.09%	9.93%
	Sep	47,950	42,179	4,706	2.22%	10.04%
	Oct	46,833	42,662	3,207	2.06%	6.99%
	Nov	47,399	43,312	3,071	2.14%	6.62%
	Dec	45,771	42,750	2,024	2.18%	4.52%
2027	Jan	43,327	37,523	4,829	2.25%	11.40%
	Feb	43,312	37,804	4,540	2.23%	10.72%



		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
	Mar	41,210	36,904	3,404	2.19%	8.44%
	Apr	48,196	42,353	4,897	1.96%	10.36%
	May	50,164	44,103	4,966	2.18%	10.12%
	Jun	53,233	45,646	6,446	2.14%	12.37%
	Jul	47,178	41,832	4,356	2.10%	9.43%
	Aug	48,637	43,009	4,610	2.09%	9.68%
	Sep	50,069	44,165	4,792	2.22%	9.79%
	Oct	48,901	44,664	3,229	2.06%	6.74%
	Nov	49,494	45,348	3,085	2.14%	6.37%
	Dec	47,790	44,753	1,997	2.18%	4.27%
2028	Jan	45,130	39,194	4,920	2.25%	11.15%
	Feb	45,110	39,483	4,620	2.23%	10.47%
	Mar	42,902	38,519	3,444	2.19%	8.21%
	Apr	50,209	44,247	4,976	1.96%	10.11%
	May	52,229	46,040	5,049	2.18%	9.88%
	Jun	55,425	47,653	6,584	2.14%	12.14%
	Jul	49,123	43,671	4,421	2.10%	9.19%
	Aug	50,643	44,902	4,681	2.09%	9.44%
	Sep	52,129	46,103	4,869	2.22%	9.55%
	Oct	50,911	46,620	3,242	2.06%	6.50%
	Nov	51,532	47,336	3,090	2.14%	6.13%
	Dec	49,755	46,710	1,961	2.18%	4.03%
2029	Jan	46,882	40,825	5,001	2.25%	10.91%
	Feb	46,858	41,121	4,690	2.23%	10.24%
	Mar	44,576	40,129	3,471	2.19%	7.96%
	Apr	52,137	46,062	5,051	1.96%	9.88%
	May	54,241	47,934	5,122	2.18%	9.65%
	Jun	57,558	49,615	6,710	2.14%	11.91%
	Jul	51,016	45,469	4,476	2.10%	8.96%
	Aug	52,596	46,752	4,742	2.09%	9.21%
	Sep	54,135	47,998	4,935	2.22%	9.32%
	Oct	52,869	48,533	3,247	2.06%	6.27%
	Nov	53,516	49,281	3,087	2.14%	5.89%
	Dec	51,668	48,625	1,918	2.18%	3.79%
2030	Jan	48,587	42,419	5,074	2.25%	10.68%
	Feb	48,560	42,723	4,752	2.23%	10.01%
	Mar	46,181	41,688	3,482	2.19%	7.71%
	Apr	54,041	47,854	5,126	1.96%	9.68%
	May	56,199	49,788	5,184	2.18%	9.43%
	Jun	59,637	51,535	6,824	2.14%	11.69%
	Jul	52,860	47,230	4,521	2.10%	8.74%
	Aug	54,498	48,564	4,794	2.09%	8.98%
	Sep	56,090	49,853	4,991	2.22%	9.10%
	Oct	54,777	50,406	3,242	2.06%	6.04%
	Nov	55,449	51,185	3,074	2.14%	5.67%
	Dec	53,533	50,501	1,866	2.18%	3.56%

MWh Offtake was forecasted using Time Series regression. The assumed load factor is 69.14%.

System Loss was calculated through a Load Flow Analysis using Synergi software. Based on the same study, the Distribution System can adequately convey electricity to customers.



MWh Output was expected to grow at a rate of 5.43% annually. However, it was forecasted for the year 2021 to 2022 that the commercial, industrial and other types of consumers was 9.94% to 13.36%, 12.47% to 13.07% and 11.59% to 13.23%, respectively due to the expected resumption of operations and development of the affected consumers due to Covid-19 pandemic.

Transmission Loss is also expected to range from 1.96% to 2.25% while System Loss is expected to range from 11.58 % to 8.45%.

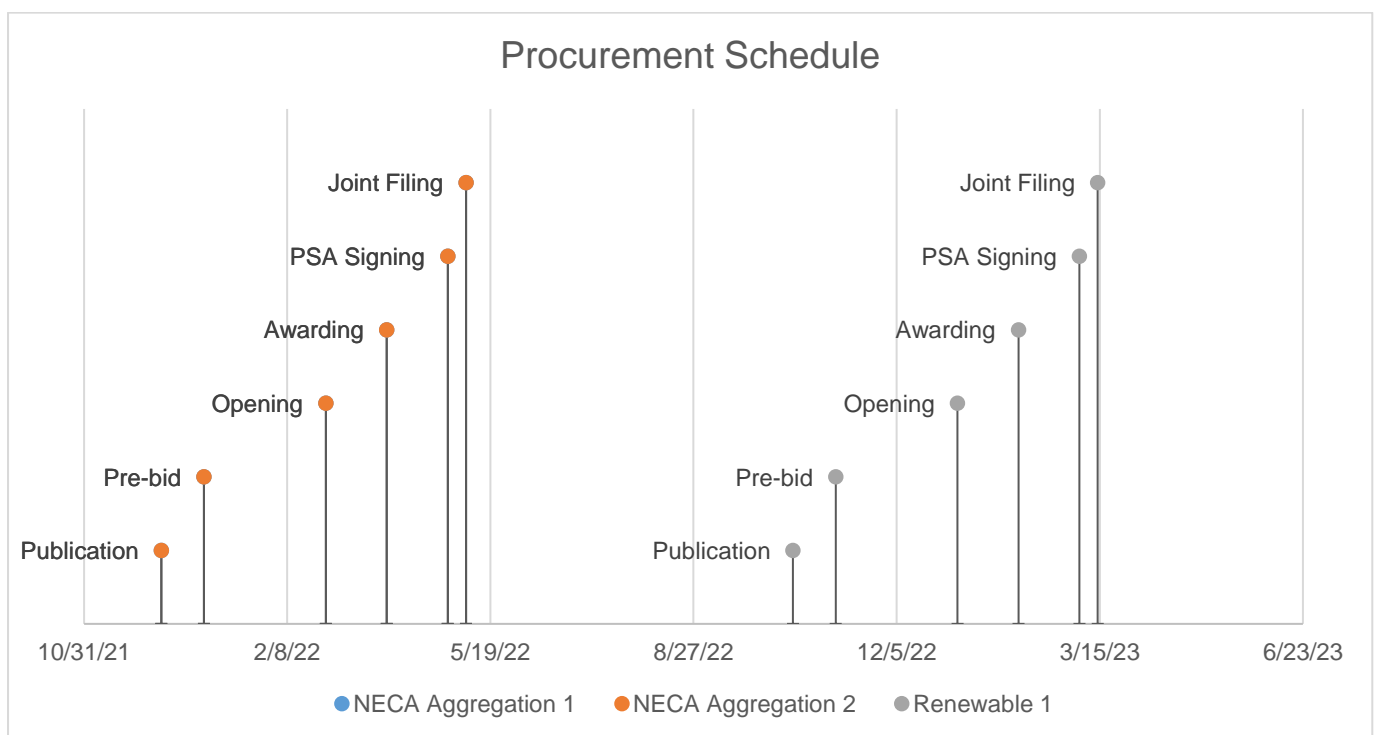
## Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2011-034 RC	Base	Green Core Geothermal, Inc.	25.00	175,200	12/26/2010	12/25/2025
2014-009 RC	Base	KEPCO SPC Power Corporation	8.20	71,832	12/31/2010	5/30/2022

The PSA with Green Core Geothermal, Inc. filed with ERC under Case No. 2011-034C was procured through a bilateral contract. It was selected to provide for the baseload requirements due to its offer of renewable energy with competitive rates and is located within the franchise area. Historically, the utilization of the PSA is 55.23%. Outages of the plant led to unserved energy of around 105.18 MWh in the past year. The actual billed overall monthly charge under the PSA is fixed at 5.5953 P/KWh in the same period.

The PSA with KEPCO SPC Power Corporation filed with ERC under Case No. 2014-009RC was procured through a bilateral contract. It was selected to provide for baseload requirements due to its offer of competitive rates. Historically, the utilization of the PSA is 18.49%. Outages of the plant led to unserved energy of around 3,423.5 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 5.1637 P/kWh to 6.7633 P/KWh in the same period.

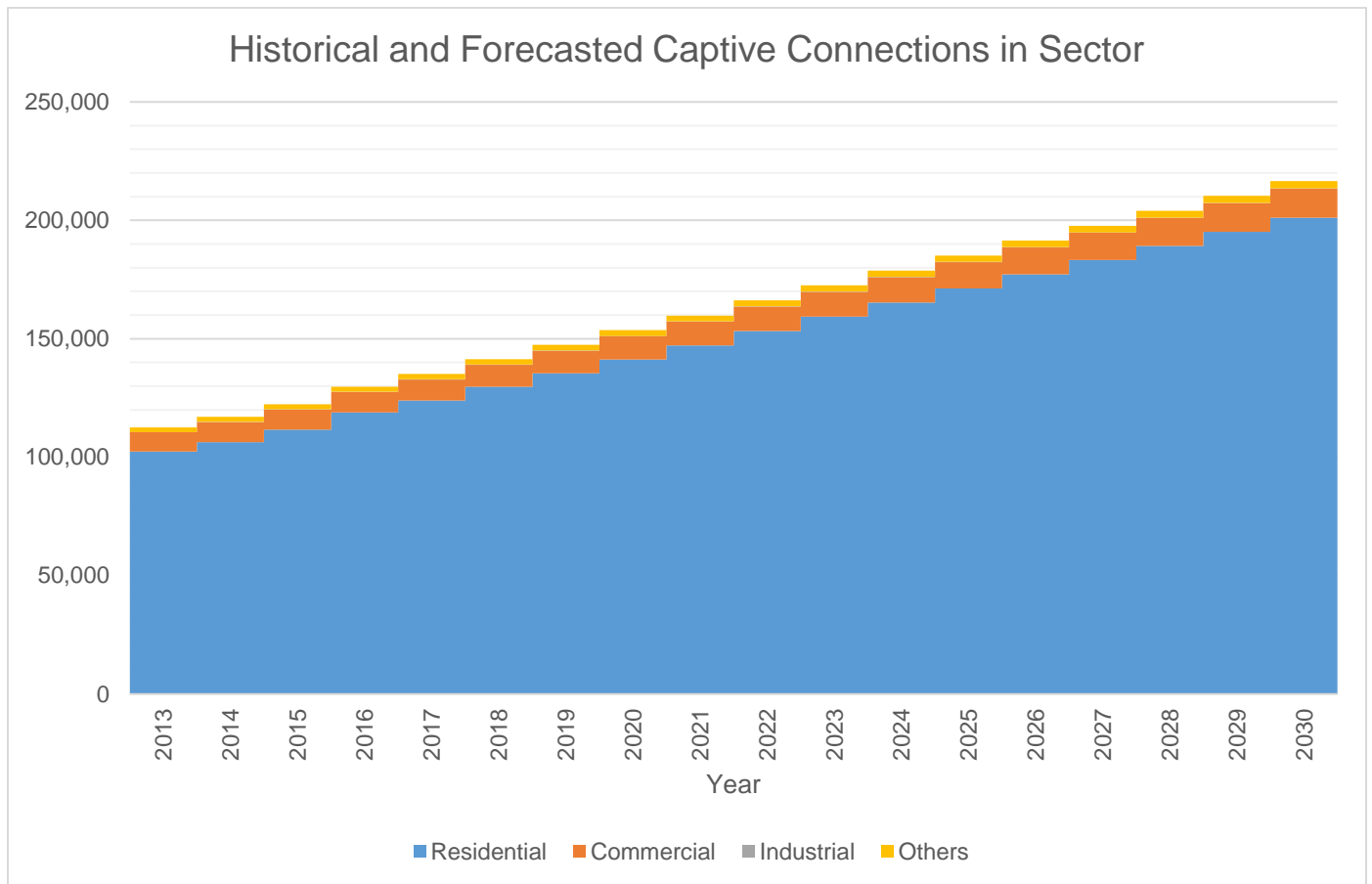
	NECA Aggregation 1	NECA Aggregation 2	Renewable 1
Type	Base	Peaking	Base
Minimum MW	18.00	10.00	12.00
Minimum MWh/yr	157,680	14,600	58,867
PSA Start	5/26/2022	5/26/2022	6/26/2023
PSA End	5/25/2032	5/25/2032	6/25/2033
Publication	12/8/2021	12/8/2021	10/15/2022
Pre-bid	12/29/2021	12/29/2021	11/5/2022
Opening	2/27/2022	2/27/2022	1/4/2023
Awarding	3/29/2022	3/29/2022	2/3/2023
PSA Signing	4/28/2022	4/28/2022	3/5/2023
Joint Filing	5/7/2022	5/7/2022	3/14/2023



For the procurement of 18 MW of base load and 10MW Peaking load supply by the aggregation of Negros Electric Cooperative Association or NECA which is planned to be available on May 26, 2022, the first publication or launch of CSP will be on December 8, 2021. Joint filing is planned on May 7, 2022, or 150 days later, in accordance with DOE's 2018 CSP Policy.

For the procurement of 12 MW of base load supply using renewable energy by joint venture of NORECO II which is planned to be available on July 26, 2023, the first publication or launch of CSP will be on October 15, 2022. Joint filing is planned on March 14, 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 a rate of 3.60% annually from 2021 to 2030. Said customer class is expected to account for 53.19% of the total consumption. While in the same forecasted period the number of commercial connections is expected to grow at a rate of 2.26% annually and expected to account for 31.49% of the total consumption.