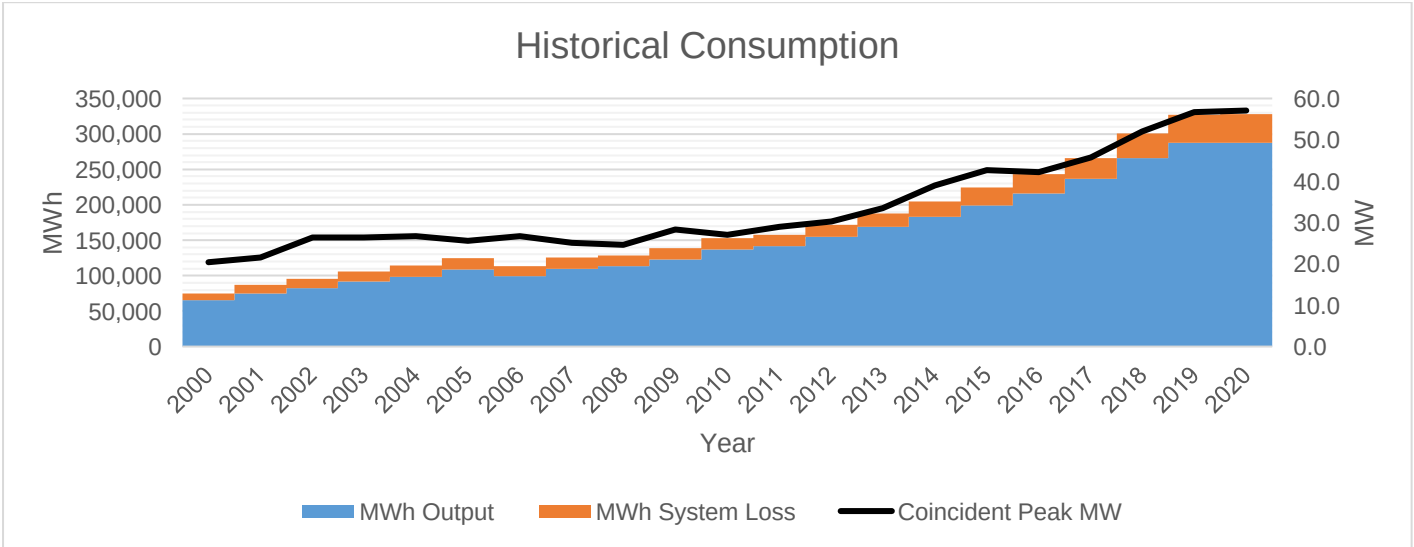
Power Supply Procurement Plan 2021

Oriental Mindoro Electric Cooperative, Incorporated (ORMECO, Inc.)

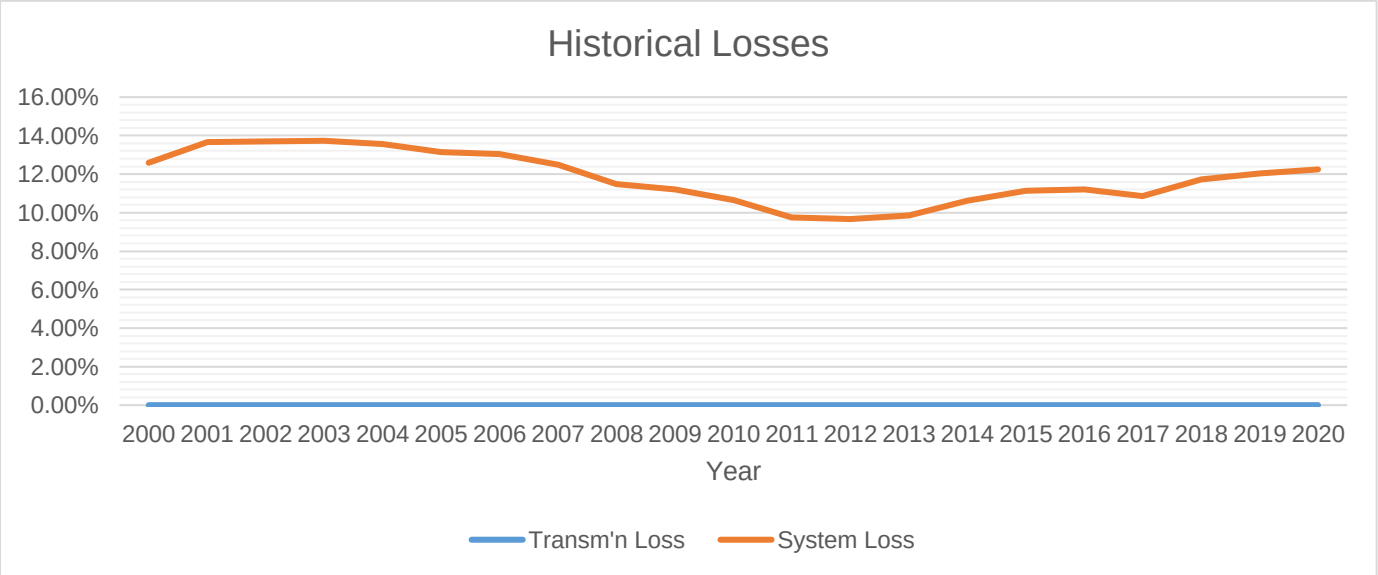
Historical Consumption Data

	Coincident Peak MW	MWh Offtake	MWh Input	MWh Output	MWh System Loss	Load Factor	System Loss
2000	20.40	75,017	75,017	65,570	9,447	42%	12.59%
2001	21.50	87,199	87,199	75,274	11,925	46%	13.68%
2002	26.45	95,524	95,524	82,450	13,075	41%	13.69%
2003	26.45	105,944	105,944	91,395	14,549	46%	13.73%
2004	26.67	113,948	113,948	98,513	15,435	49%	13.55%
2005	25.62	124,879	124,879	108,479	16,400	56%	13.13%
2006	26.75	113,846	113,846	99,012	14,834	49%	13.03%
2007	25.05	125,245	125,245	109,619	15,626	57%	12.48%
2008	24.53	128,306	128,306	113,586	14,720	60%	11.47%
2009	28.32	138,575	138,575	123,050	15,525	56%	11.20%
2010	27.00	153,115	153,115	136,783	16,332	65%	10.67%
2011	28.93	157,191	157,191	141,867	15,325	62%	9.75%
2012	30.30	171,671	171,671	155,078	16,593	65%	9.67%
2013	33.52	187,367	187,367	168,896	18,471	64%	9.86%
2014	39.02	204,740	204,740	182,990	21,750	60%	10.62%
2015	42.70	224,371	224,371	199,364	25,007	60%	11.15%
2016	42.27	243,288	243,288	216,050	27,239	66%	11.20%
2017	45.75	265,477	265,477	236,614	28,863	66%	10.87%
2018	52.10	301,015	301,015	265,744	35,271	66%	11.72%
2019	56.65	326,979	326,979	287,675	39,304	66%	12.02%
2020	57.08	327,690	327,690	287,569	40,121	66%	12.24%

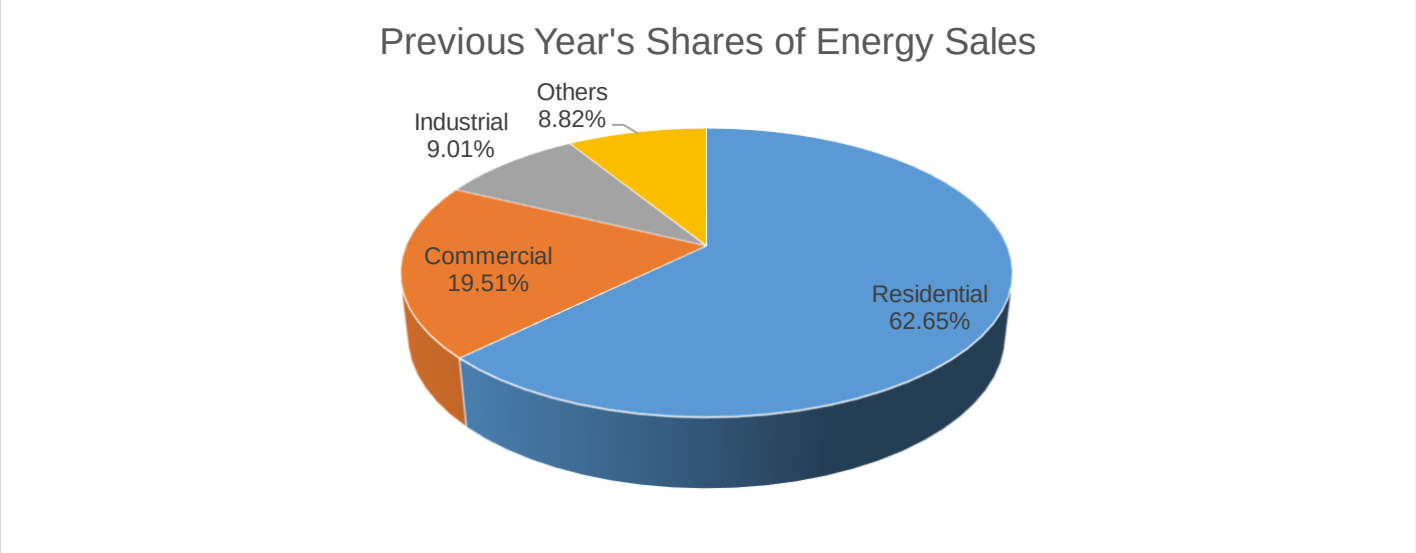
Peak Demand increased from 56.65 MW in 2019 to 57.08 MW in 2020 at a rate of 0.76% only due to the effect of COVID19 Pandemic. MWh Offtake increased from 326,979 MWh in 2019 to 327,690 MWh in 2020 at a rate of 0.22% only due to the effect of the pandemic also. Within the same period, Load Factor ranged from 42% to 66%. There was an abrupt change in consumption on 2018 due to abnormal growth on year 2015 to 2017 and most of potential spot loads on year 2018 were energized.



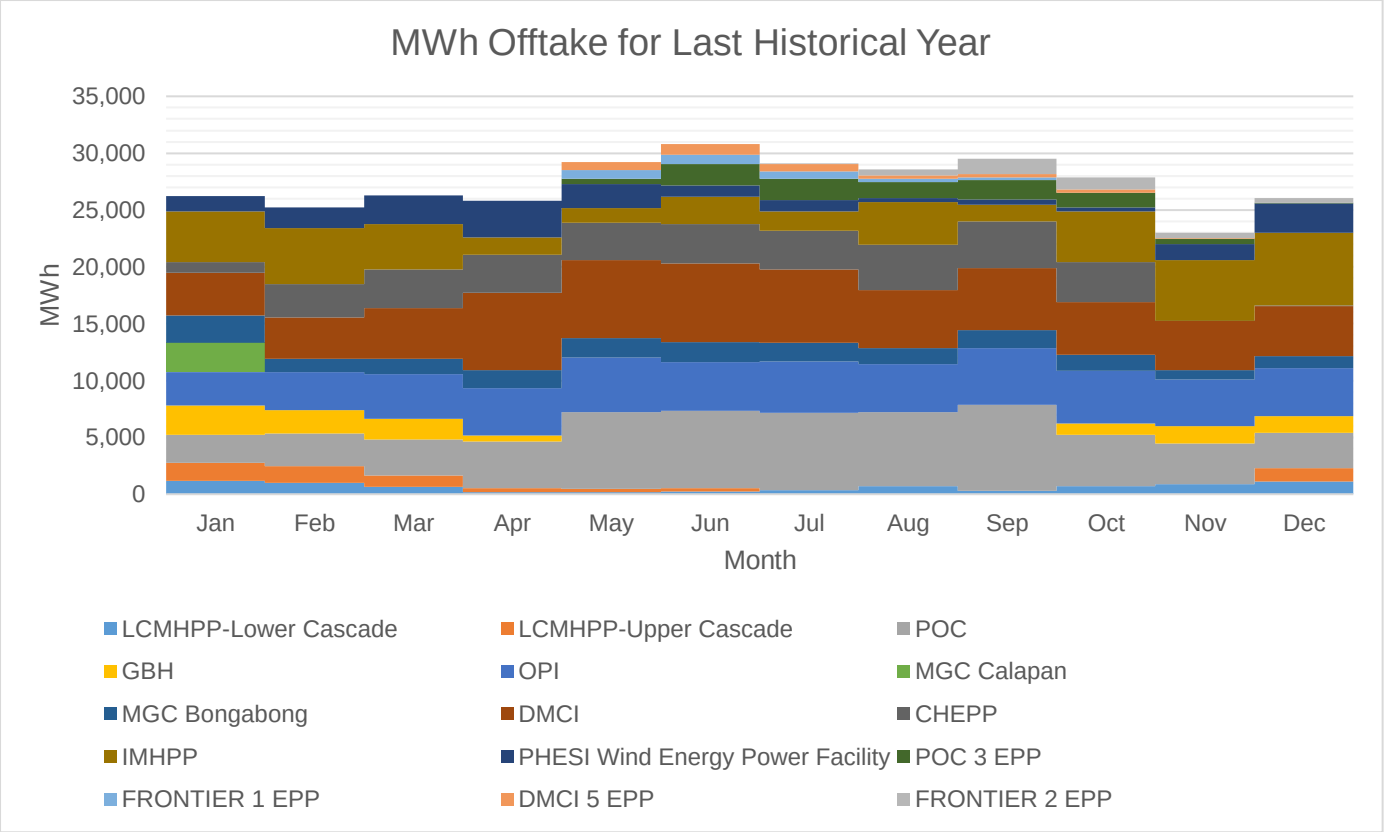
MWh Output decreased from year 2019 to year 2020 at a rate of 8.20%, while MWh System Loss increased at an average rate of 2.08% within the same period. Note that transmission loss are include to the system loss reflected on the table above.



ORMECO's loss from 2000 to 2014 acquired highest mark due to overloaded and unsystematic distribution line. The coop attains the single digit System Loss by 20011 to 2013 due to most of the major projects under CAPEX 2012 to 2016 were implemented. On the other hand, System loss spikes increasingly since ORMECO took over System Operation of Oriental Mindoro Grid. This results to shouldering the subtransmission and substation losses within the franchise area.



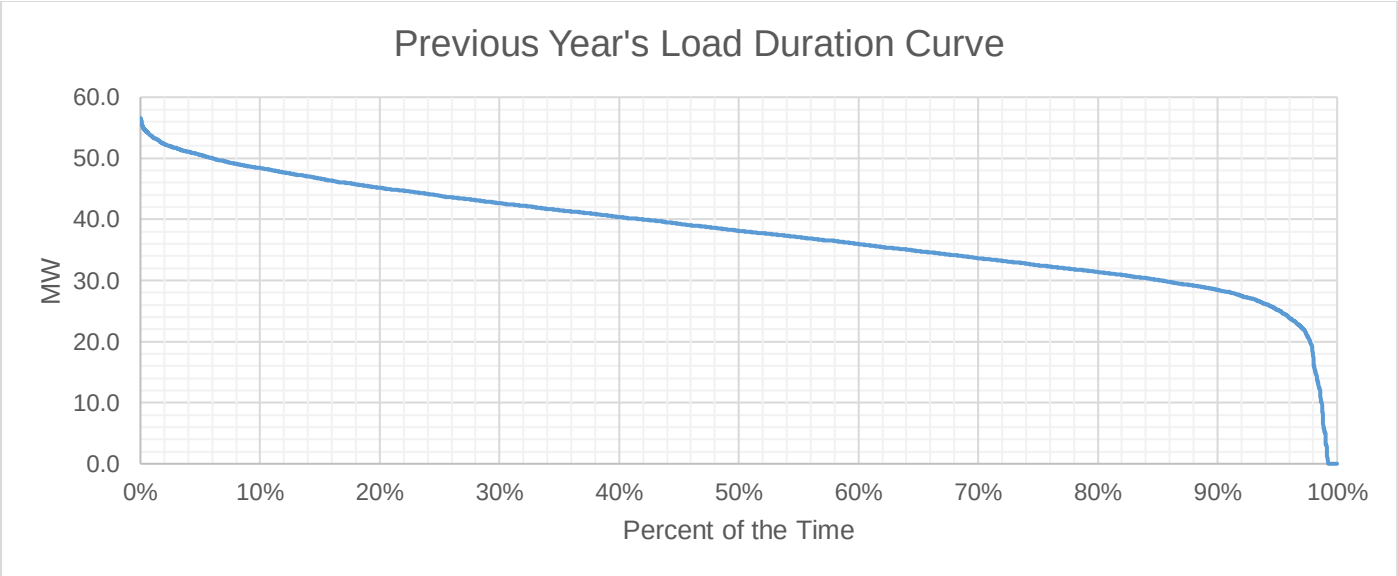
Residential customers account for the bulk of energy sales at 62.65% despite of the low number of new connections this year. In addition, mostly the load of Oriental Mindoro are residential. In contrast, Other customers, St. Lights and Public Building specifically, accounted for only 8.82% of energy sales due to the low number of connections.



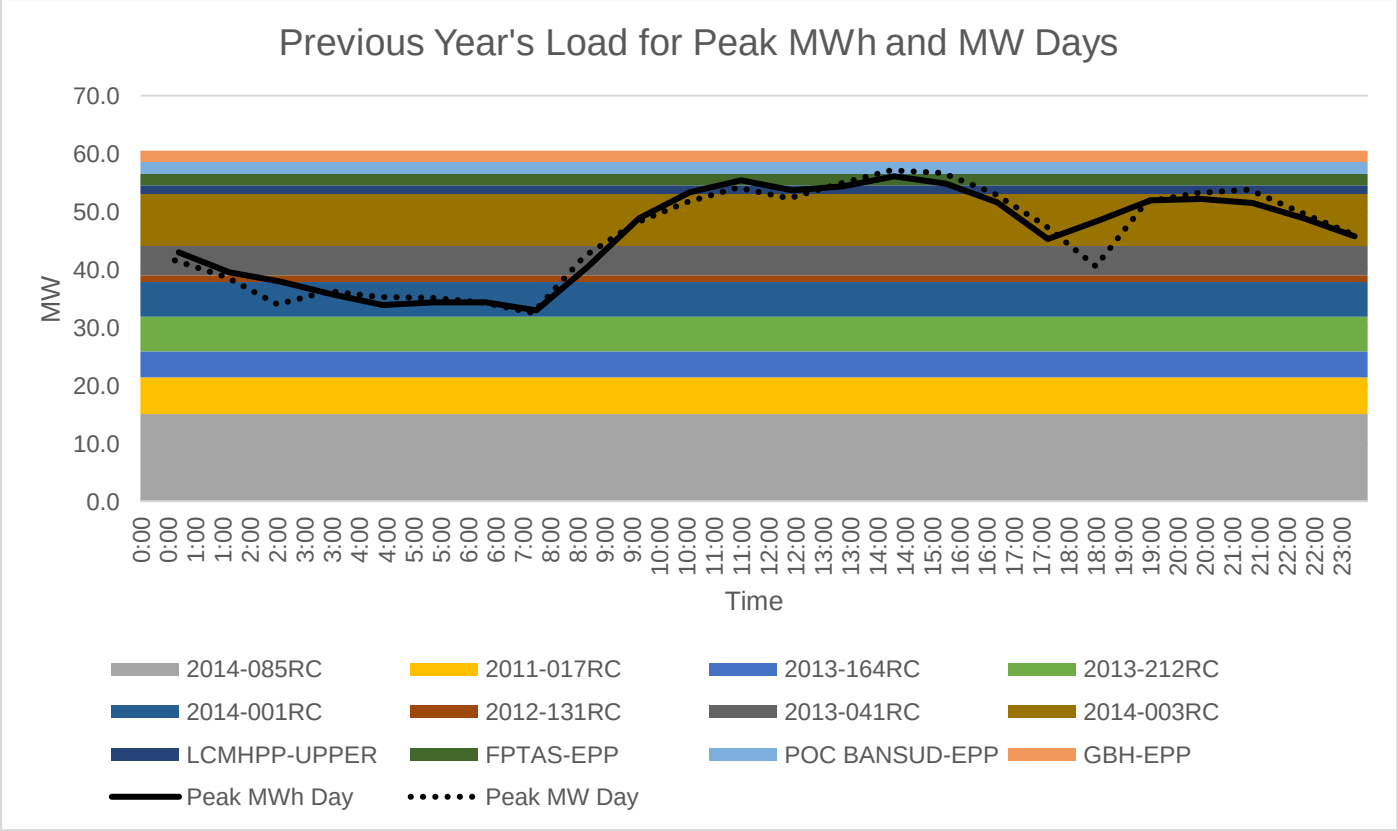
For PHESI Wind Energy Power Facility, Inabasan Mini Hydro Power Plant (IMHPP), Mindoro Grid Corporation-Calapan (MGC-Calapan), MGC-Bongabong, GBH Power Resources Incorporated (GBH PRI), Linao Cawayan Mini Hydro Power Plant-Lower Cascade (LCMHPP-Lower Cascade), LCMHPP-Upper Cascade, Catuiran Hydro Electric Power Plant (CHEPP), Ormin Power Incorporated (OPI) and Power One Corporation (POC) the total energy Offtake for the historical year is lower than the quantity stipulated in their PSA, except DMCI Power Corporation with higher energy Offtake than the quantity stipulated in the PSA due to DMCI Power Corporation plays the role of system regulator.

There were months that Frontier, POC and DMCI EPP did not reach its contracted energy due to intermittent power supply from the contracted renewable power suppliers.

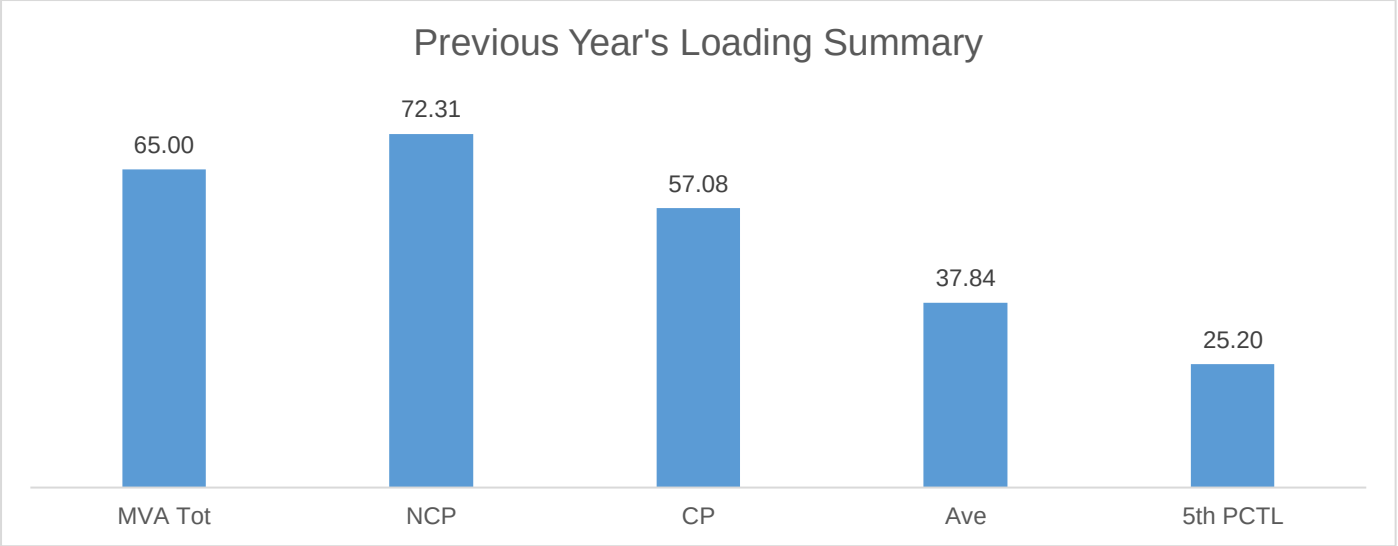
Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 0 MW and the maximum load is 57.08 MW for the last historical year. We recorded 0 MW because Oriental Mindoro was hardly hit by typhoon Quinta last October 2020.



Peak MW occurred on September 4, 2020 1:00 pm due to the effect of the pandemic also. Because historically during summer season we experience peak MW load. Peak daily MWh occurred on June 2020 because historically, at day period ORMECO recorded greater sales than night period due to many offices, schools and other establishments are open.



The Non-coincident Peak Demand is 72.31 MW, which is around 139% of the total substation capacity of 65 MVA at a power factor of 0.80. The load factor or the ratio between the Average Load of 37.84 MW and the Non-coincident Peak Demand is 52.33% of. A safe estimate of the true minimum load is the fifth percentile load of 25.2 MW which is 34.85% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
Minolo (Puerto Galera)	10	5.158
Taurus (Calapan)	20	30.875
Gemini (Naujan)	5	4.694
Leo (Victoria)	5	3.859
Virgo (Socorro)	5	4.909
Libra (Pinamalayan)	5	6.043
Scorpio (Bansud)	10	5.390
Capricorn (Bongabong)		3.290
Pisces (Roxas)	5	8.094

All substations are loaded above 70% this year 2020 except Minolo (Puerto) substation which recorded only 64.45% of the allowable capacity of the power transformer. But take note that this power substation reaches 8 MW last 2019 summer season but due to COVID 19 pandemic this year, Minolo substation did not reach its real peak demand. The overloading problems of all the substation are going to be solve by the 2017-2021 CAPEX projects of ORMECO that are targeted to be implemented this year upon approval. Bongabong substation is temporarily connected to 10 MVA NPC Bansud substation while the bank loan for the installation of additional capacity at Bongabong is on going.

The figures illustrate the critical substations that must be uprated in terms of capacity. But we must take note and must not disregard that most of the power providers are embedded in the distribution line. The table also shows also the coincident peak per substation. To address the overloading issue of Naujan substation, we transfer some portion of it to Victoria substation.

Forecasted Consumption Data

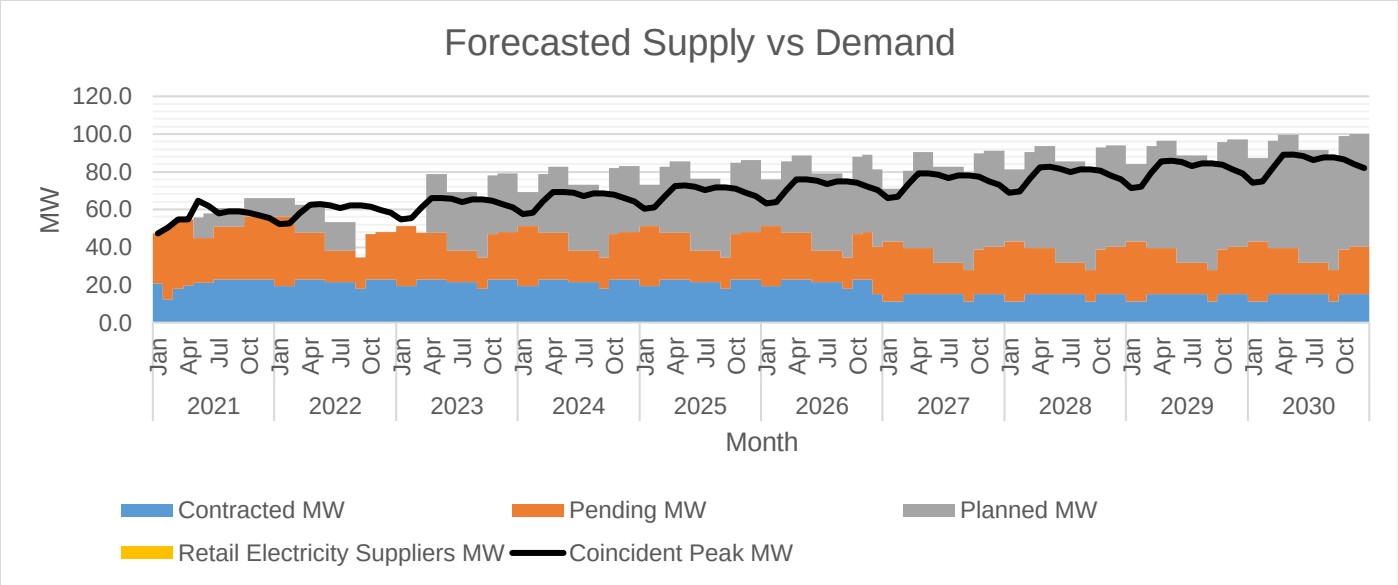
		Coincident Peak MW	Contracted MW	Pending MW	Planned MW	Existing Contracting Level	Target Contracting Level	MW Surplus / Deficit
2021	Jan	47.28	20.88	26.40	0.000	44%	100%	0.00
	Feb	50.35	12.45	37.90	0.000	25%	100%	0.00
	Mar	54.58	17.98	36.60	0.000	33%	100%	0.00
	Apr	54.78	19.58	35.20	0.000	36%	100%	0.00
	May	64.78	21.28	23.70	10.950	33%	86%	-8.85
	Jun	61.77	20.98	24.00	13.000	34%	94%	-3.79
	Jul	57.74	23.00	27.90	10.000	40%	105%	3.16
	Aug	58.79	23.00	27.90	10.000	39%	104%	2.11
	Sep	58.93	23.00	27.90	10.000	39%	103%	1.97
	Oct	58.36	23.00	33.10	10.000	39%	113%	7.74
	Nov	56.73	23.00	33.10	10.000	41%	117%	9.37
	Dec	55.33	23.00	33.10	10.000	42%	119%	10.77
2022	Jan	52.09	19.20	36.90	10.000	37%	127%	14.01
	Feb	52.66	19.20	36.90	10.000	36%	126%	13.44
	Mar	57.98	23.00	24.60	15.000	40%	108%	4.62
	Apr	62.61	23.00	24.60	15.000	37%	100%	-0.01
	May	62.82	23.00	24.60	15.000	37%	100%	-0.22
	Jun	62.29	21.60	16.60	15.000	35%	85%	-9.09
	Jul	60.90	21.60	16.60	15.000	35%	87%	-7.70
	Aug	62.00	21.60	16.60	15.000	35%	86%	-8.80
	Sep	62.13	17.80	16.60	0.000	29%	55%	-27.73
	Oct	61.51	23.00	23.90	0.000	37%	76%	-14.61
	Nov	59.78	23.00	25.10	0.000	38%	80%	-11.68
	Dec	58.29	23.00	25.10	0.000	39%	83%	-10.19
2023	Jan	54.86	19.20	31.90	0.000	35%	93%	-3.76
	Feb	55.45	19.20	31.90	0.000	35%	92%	-4.35
	Mar	61.04	23.00	24.60	0.000	38%	78%	-13.44
	Apr	65.90	23.00	24.60	31.000	35%	119%	12.70

	May	66.10	23.00	24.60	31.000	35%	119%	12.50
	Jun	65.54	21.60	16.60	31.000	33%	106%	3.66
	Jul	64.06	21.60	16.60	31.000	34%	108%	5.14
	Aug	65.20	21.60	16.60	31.000	33%	106%	4.00
	Sep	65.32	17.80	16.60	31.000	27%	100%	0.08
	Oct	64.67	23.00	23.90	31.000	36%	120%	13.23
	Nov	62.83	23.00	25.10	31.000	37%	126%	16.27
	Dec	61.25	23.00	25.10	31.000	38%	129%	17.85
2024	Jan	57.64	19.20	31.90	18.000	33%	120%	11.46
	Feb	58.24	19.20	31.90	18.000	33%	119%	10.86
	Mar	64.10	23.00	24.60	31.000	36%	123%	14.50
	Apr	69.19	23.00	24.60	35.000	33%	119%	13.41
	May	69.39	23.00	24.60	35.000	33%	119%	13.21
	Jun	68.78	21.60	16.60	35.000	31%	106%	4.42
	Jul	67.22	21.60	16.60	35.000	32%	109%	5.98
	Aug	68.40	21.60	16.60	35.000	32%	107%	4.80
	Sep	68.52	17.80	16.60	35.000	26%	101%	0.88
	Oct	67.82	23.00	23.90	35.000	34%	121%	14.08
	Nov	65.88	23.00	25.10	35.000	35%	126%	17.22
	Dec	64.21	23.00	25.10	35.000	36%	129%	18.89
2025	Jan	60.41	19.20	31.90	22.000	32%	121%	12.69
	Feb	61.03	19.20	31.90	22.000	31%	120%	12.07
	Mar	67.16	23.00	24.60	35.000	34%	123%	15.44
	Apr	72.48	23.00	24.60	38.000	32%	118%	13.12
	May	72.68	23.00	24.60	38.000	32%	118%	12.92
	Jun	72.03	21.60	16.60	38.000	30%	106%	4.17
	Jul	70.38	21.60	16.60	38.000	31%	108%	5.82
	Aug	71.60	21.60	16.60	38.000	30%	106%	4.60
	Sep	71.71	17.80	16.60	38.000	25%	101%	0.69
	Oct	70.97	23.00	23.90	38.000	32%	120%	13.93
	Nov	68.93	23.00	25.10	38.000	33%	125%	17.17
	Dec	67.17	23.00	25.10	38.000	34%	128%	18.93
2026	Jan	63.18	19.20	31.90	25.000	30%	120%	12.92

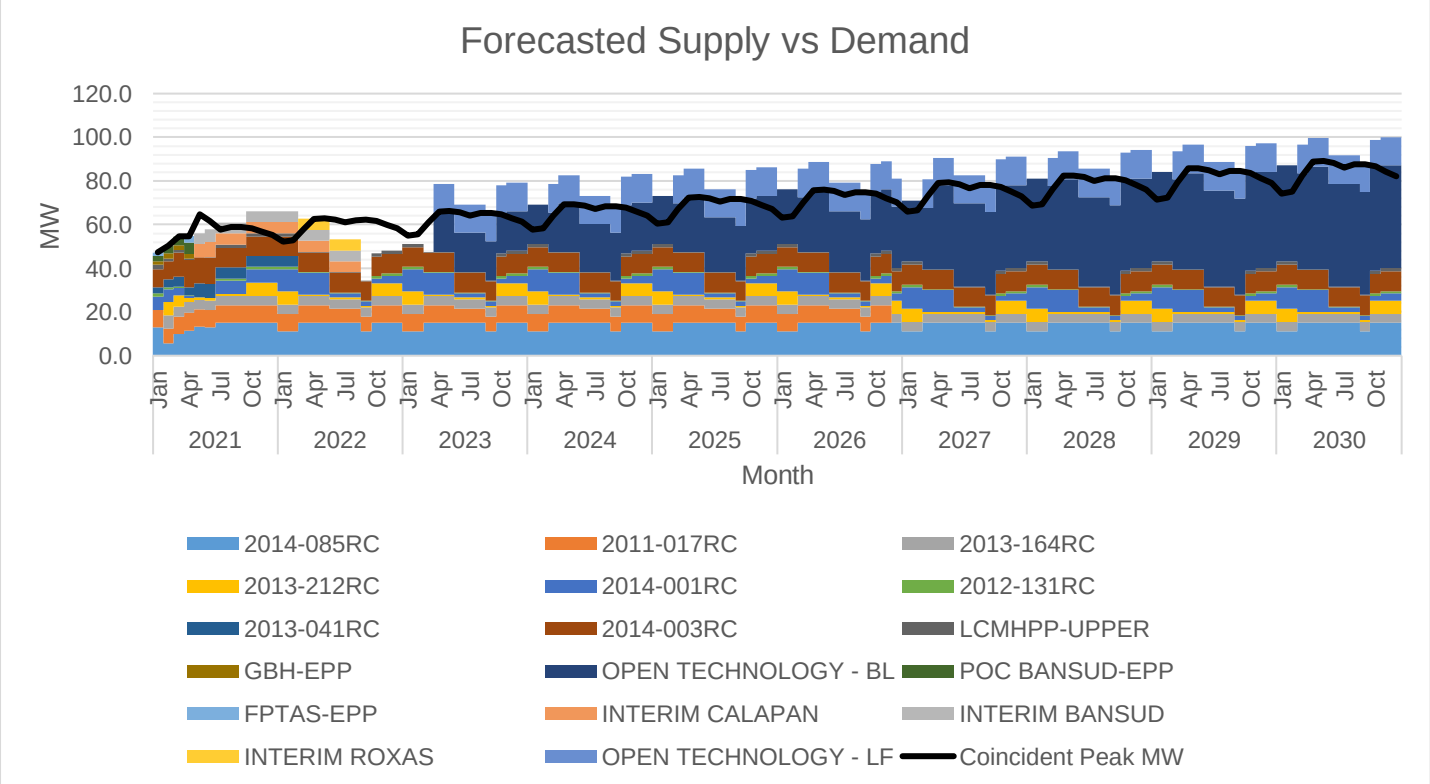
	Feb	63.83	19.20	31.90	25.000	30%	119%	12.27
	Mar	70.22	23.00	24.60	38.000	33%	122%	15.38
	Apr	75.77	23.00	24.60	41.000	30%	117%	12.83
	May	75.96	23.00	24.60	41.000	30%	117%	12.64
	Jun	75.27	21.60	16.60	41.000	29%	105%	3.93
	Jul	73.53	21.60	16.60	41.000	29%	108%	5.67
	Aug	74.81	21.60	16.60	41.000	29%	106%	4.39
	Sep	74.91	17.80	16.60	41.000	24%	101%	0.49
	Oct	74.12	23.00	23.90	41.000	31%	119%	13.78
	Nov	71.98	23.00	25.10	41.000	32%	124%	17.12
	Dec	70.13	15.00	25.10	41.000	21%	116%	10.97
2027	Jan	65.96	11.20	31.90	28.000	17%	108%	5.14
	Feb	66.62	11.20	31.90	28.000	17%	107%	4.48
	Mar	73.28	15.00	24.60	41.000	20%	110%	7.32
	Apr	79.06	15.00	24.60	51.000	19%	115%	11.54
	May	79.25	15.00	24.60	51.000	19%	114%	11.35
	Jun	78.52	15.00	16.60	51.000	19%	105%	4.08
	Jul	76.69	15.00	16.60	51.000	20%	108%	5.91
	Aug	78.01	15.00	16.60	51.000	19%	106%	4.59
	Sep	78.11	11.20	16.60	51.000	14%	101%	0.69
	Oct	77.27	15.00	23.90	51.000	19%	116%	12.63
	Nov	75.02	15.00	25.10	51.000	20%	121%	16.08
	Dec	73.09	15.00	25.10	51.000	21%	125%	18.01
2028	Jan	68.73	11.20	31.90	38.000	16%	118%	12.37
	Feb	69.41	11.20	31.90	38.000	16%	117%	11.69
	Mar	76.34	15.00	24.60	51.000	20%	119%	14.26
	Apr	82.35	15.00	24.60	54.000	18%	114%	11.25
	May	82.54	15.00	24.60	54.000	18%	113%	11.06
	Jun	81.76	15.00	16.60	54.000	18%	105%	3.84
	Jul	79.85	15.00	16.60	54.000	19%	107%	5.75
	Aug	81.21	15.00	16.60	54.000	18%	105%	4.39
	Sep	81.30	11.20	16.60	54.000	14%	101%	0.50
	Oct	80.42	15.00	23.90	54.000	19%	116%	12.48

	Nov	78.07	15.00	25.10	54.000	19%	121%	16.03
	Dec	76.05	15.00	25.10	54.000	20%	124%	18.05
2029	Jan	71.51	11.20	31.90	41.000	16%	118%	12.59
	Feb	72.20	11.20	31.90	41.000	16%	116%	11.90
	Mar	79.40	15.00	24.60	54.000	19%	118%	14.20
	Apr	85.64	15.00	24.60	57.000	18%	113%	10.96
	May	85.82	15.00	24.60	57.000	17%	113%	10.78
	Jun	85.01	15.00	16.60	57.000	18%	104%	3.59
	Jul	83.01	15.00	16.60	57.000	18%	107%	5.59
	Aug	84.41	15.00	16.60	57.000	18%	105%	4.19
	Sep	84.50	11.20	16.60	57.000	13%	100%	0.30
	Oct	83.57	15.00	23.90	57.000	18%	115%	12.33
	Nov	81.12	15.00	25.10	57.000	18%	120%	15.98
	Dec	79.01	15.00	25.10	57.000	19%	123%	18.09
2030	Jan	74.28	11.20	31.90	44.000	15%	117%	12.82
	Feb	74.99	11.20	31.90	44.000	15%	116%	12.11
	Mar	82.46	15.00	24.60	57.000	18%	117%	14.14
	Apr	88.93	15.00	24.60	60.000	17%	112%	10.67
	May	89.11	15.00	24.60	60.000	17%	112%	10.49
	Jun	88.25	15.00	16.60	60.000	17%	104%	3.35
	Jul	86.17	15.00	16.60	60.000	17%	106%	5.43
	Aug	87.61	15.00	16.60	60.000	17%	105%	3.99
	Sep	87.69	11.20	16.60	60.000	13%	100%	0.11
	Oct	86.72	15.00	23.90	60.000	17%	114%	12.18
	Nov	84.17	15.00	25.10	60.000	18%	119%	15.93
	Dec	81.97	15.00	25.10	60.000	18%	122%	18.13

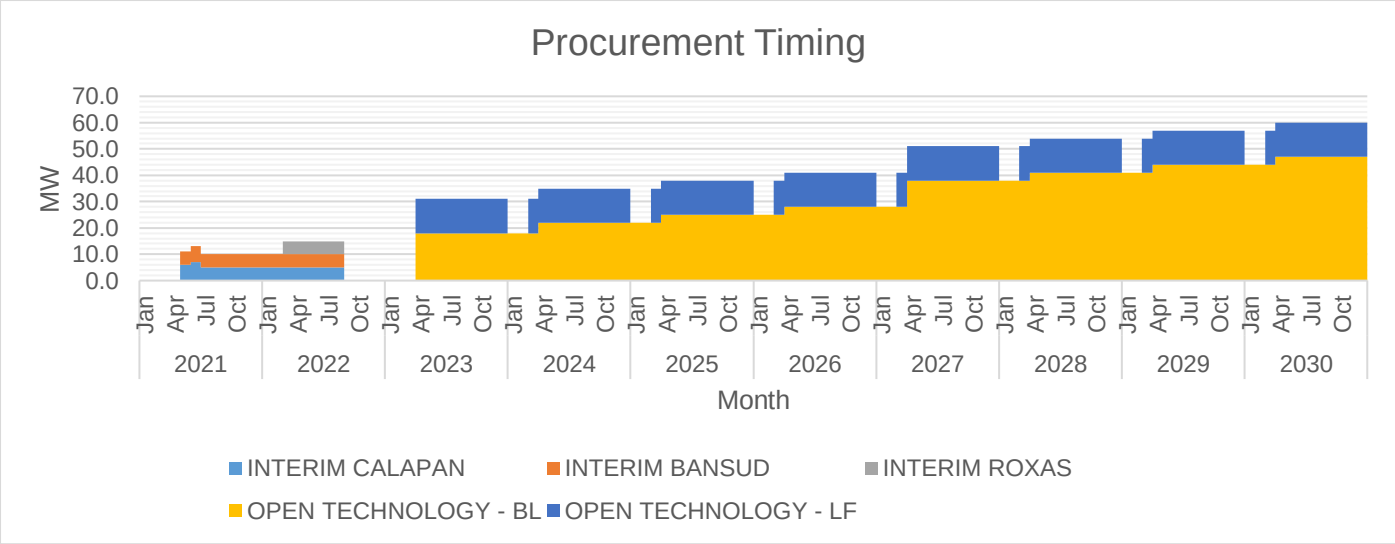
The Peak Demand was forecasted using Regression Analysis and was assumed to occur on the month of May. Monthly Peak Demand is at its lowest on the month of February due to cold weather during this month. In general, Peak Demand is expected to grow at an average rate of 5.8% annually. Contracted MW varies in some months every year, because we reflected the yearly Preventive Maintenance Schedule. As tabulated on year 2022 there was a deficit, because as of this period the contract of the Interim Power Supply will going to expire.



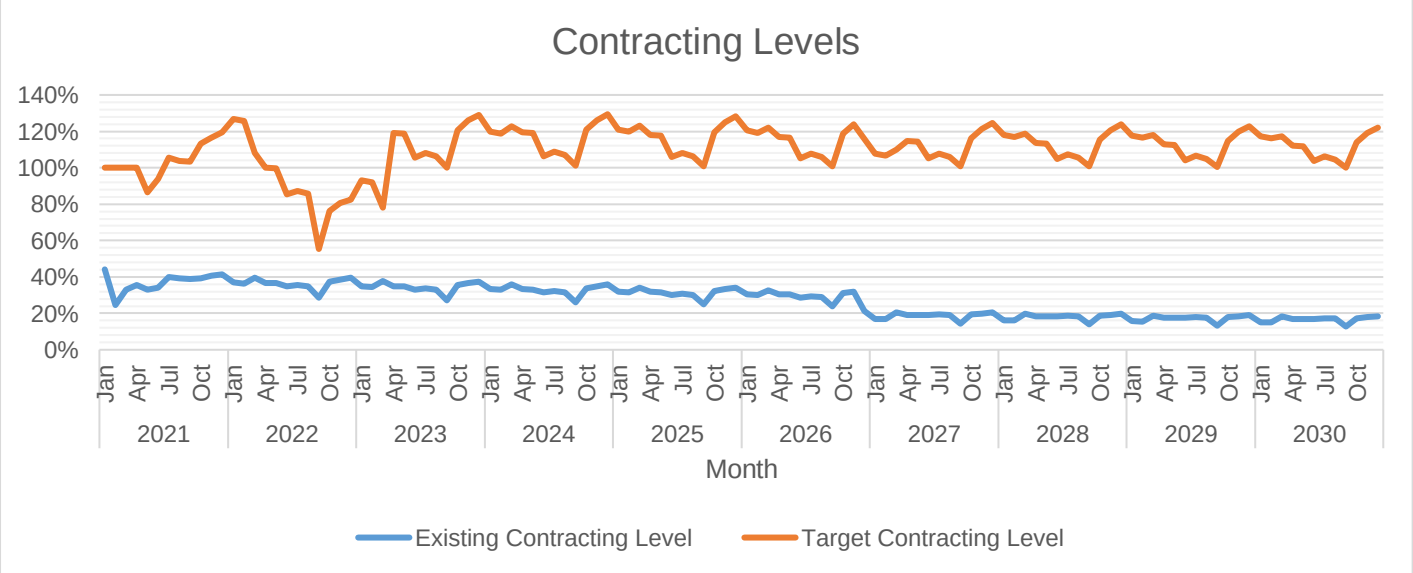
The available supply is generally above the Peak Demand from year 2021 to 2030. This is because of the Planned 60MW new power plant to be installed at Roxas, Calapan and Pinamalayan Oriental Mindoro wherein 47 MW of this supply was base load and 13 MW was mid merit.



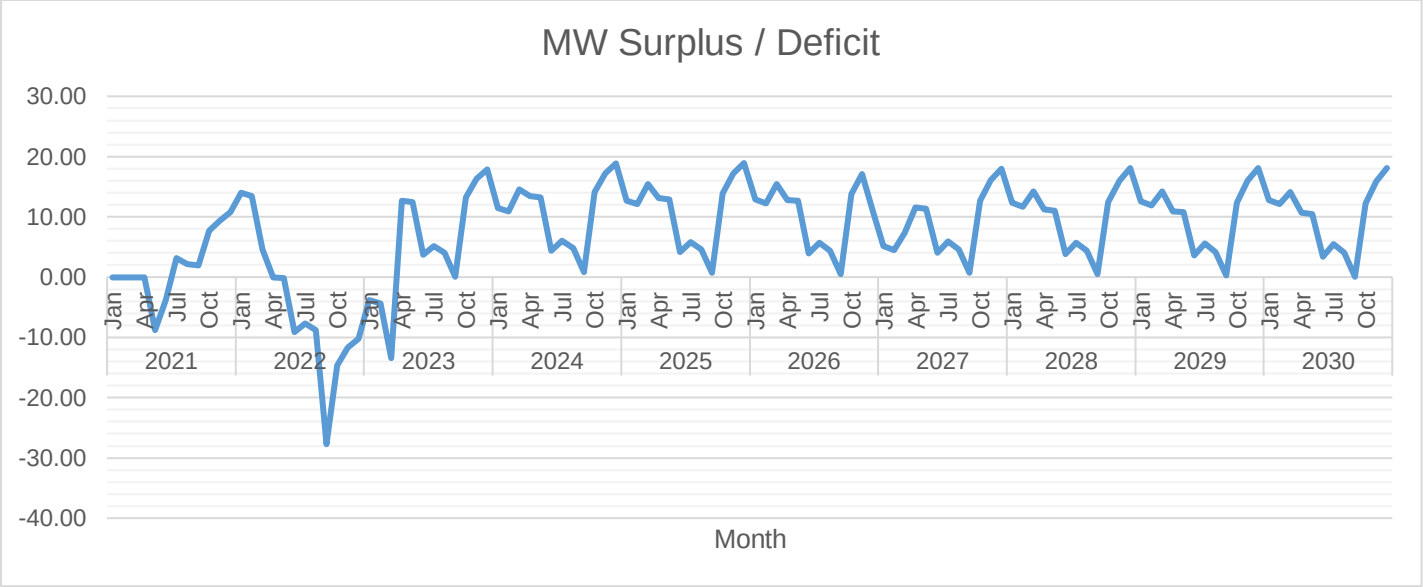
Of the available supply, the largest is 47 MW from the Base Load Open Technology Power Plant. This is followed by 15 MW from DMCI Power Corporation.



The first wave of supply procurement will be for 15 MW planned interim to be available by the month of May 2021. This will be followed by the 60 MW regular power plant, specifically 47 MW base load and 13 MW mid merit. This 47 MW are divided into 8 schedules and two location. First one to four schedule has a total of 28 MW to be located at Roxas, Oriental Mindoro and the next is the 19 MW to be located at Pinamalayan Oriental Mindoro. The 13 MW mid merit power plant was planned to be put up in Calapan City Oriental Mindoro.



The highest target contracting level is 129% which is expected to occur on December 2023. The lowest target contracting level is 55% which is expected to occur on September 2022.



The highest deficit is 27.73 MW which is expected to occur on the month of September 2022. The lowest deficit is 0.01 MW which is expected to occur on the month of April 2022.

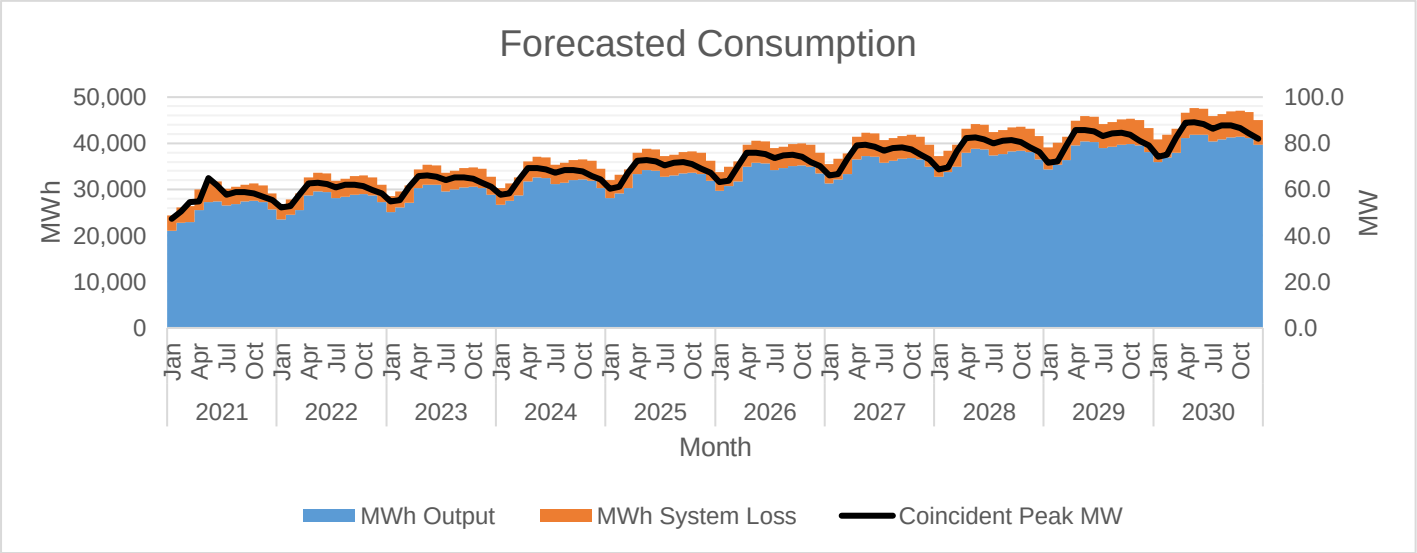
		MWh Offtake	MWh Output	MWh System Loss	System Loss
2021	Jan	24,428	21,057	3,371	13.80%
	Feb	26,096	22,843	3,253	12.47%
	Mar	26,467	22,904	3,563	13.46%
	Apr	30,025	25,531	4,494	14.97%
	May	31,740	27,325	4,415	13.91%
	Jun	31,703	27,444	4,259	13.43%
	Jul	30,149	26,532	3,618	12.00%
	Aug	30,532	26,869	3,664	12.00%
	Sep	31,082	27,352	3,730	12.00%
	Oct	31,238	27,490	3,749	12.00%
	Nov	30,919	27,209	3,710	12.00%
	Dec	29,206	25,701	3,505	12.00%
2022	Jan	26,737	23,529	3,208	12.00%
	Feb	27,845	24,504	3,341	12.00%
	Mar	29,073	25,584	3,489	12.00%
	Apr	32,631	28,715	3,916	12.00%
	May	33,558	29,531	4,027	12.00%
	Jun	33,423	29,412	4,011	12.00%
	Jul	31,907	28,078	3,829	12.00%
	Aug	32,290	28,415	3,875	12.00%
	Sep	24,524	28,899	3,941	12.00%
	Oct	26,231	29,036	3,959	12.00%
	Nov	29,844	28,755	3,921	12.00%
	Dec	34,471	27,247	3,716	12.00%
2023	Jan	29,929	25,075	3,419	12.00%
	Feb	31,827	26,050	3,552	12.00%
	Mar	30,831	27,131	3,700	12.00%
	Apr	34,388	30,262	4,127	12.00%
	May	35,315	31,077	4,238	12.00%

	Jun	35,180	30,959	4,222	12.00%
	Jul	33,664	29,625	4,040	12.00%
	Aug	34,047	29,962	4,086	12.00%
	Sep	34,597	30,445	4,152	12.00%
	Oct	34,753	30,583	4,170	12.00%
	Nov	34,434	30,302	4,132	12.00%
	Dec	32,720	28,794	3,926	12.00%
2024	Jan	30,252	26,622	3,630	12.00%
	Feb	31,360	27,597	3,763	12.00%
	Mar	32,588	28,677	3,911	12.00%
	Apr	36,146	31,808	4,337	12.00%
	May	37,073	32,624	4,449	12.00%
	Jun	36,938	32,505	4,433	12.00%
	Jul	35,422	31,171	4,251	12.00%
	Aug	35,805	31,508	4,297	12.00%
	Sep	36,355	31,992	4,363	12.00%
	Oct	36,511	32,129	4,381	12.00%
	Nov	36,191	31,848	4,343	12.00%
	Dec	34,478	30,340	4,137	12.00%
2025	Jan	32,010	28,168	3,841	12.00%
	Feb	33,117	29,143	3,974	12.00%
	Mar	34,345	30,224	4,121	12.00%
	Apr	37,903	33,355	4,548	12.00%
	May	38,830	34,170	4,660	12.00%
	Jun	38,695	34,052	4,643	12.00%
	Jul	37,179	32,718	4,461	12.00%
	Aug	37,562	33,055	4,507	12.00%
	Sep	38,112	33,538	4,573	12.00%
	Oct	38,268	33,676	4,592	12.00%
	Nov	37,949	33,395	4,554	12.00%
	Dec	36,235	31,887	4,348	12.00%
2026	Jan	33,767	29,715	4,052	12.00%
	Feb	34,874	30,690	4,185	12.00%
	Mar	36,103	31,770	4,332	12.00%
	Apr	39,660	34,901	4,759	12.00%
	May	40,587	35,717	4,870	12.00%
	Jun	40,453	35,598	4,854	12.00%
	Jul	38,936	34,264	4,672	12.00%
	Aug	39,319	34,601	4,718	12.00%
	Sep	39,869	35,085	4,784	12.00%
	Oct	40,025	35,222	4,803	12.00%
	Nov	39,706	34,941	4,765	12.00%
	Dec	37,992	33,433	4,559	12.00%
2027	Jan	35,524	31,261	4,263	12.00%
	Feb	36,632	32,236	4,396	12.00%
	Mar	37,860	33,317	4,543	12.00%
	Apr	41,418	36,448	4,970	12.00%
	May	42,345	37,263	5,081	12.00%
	Jun	42,210	37,145	5,065	12.00%

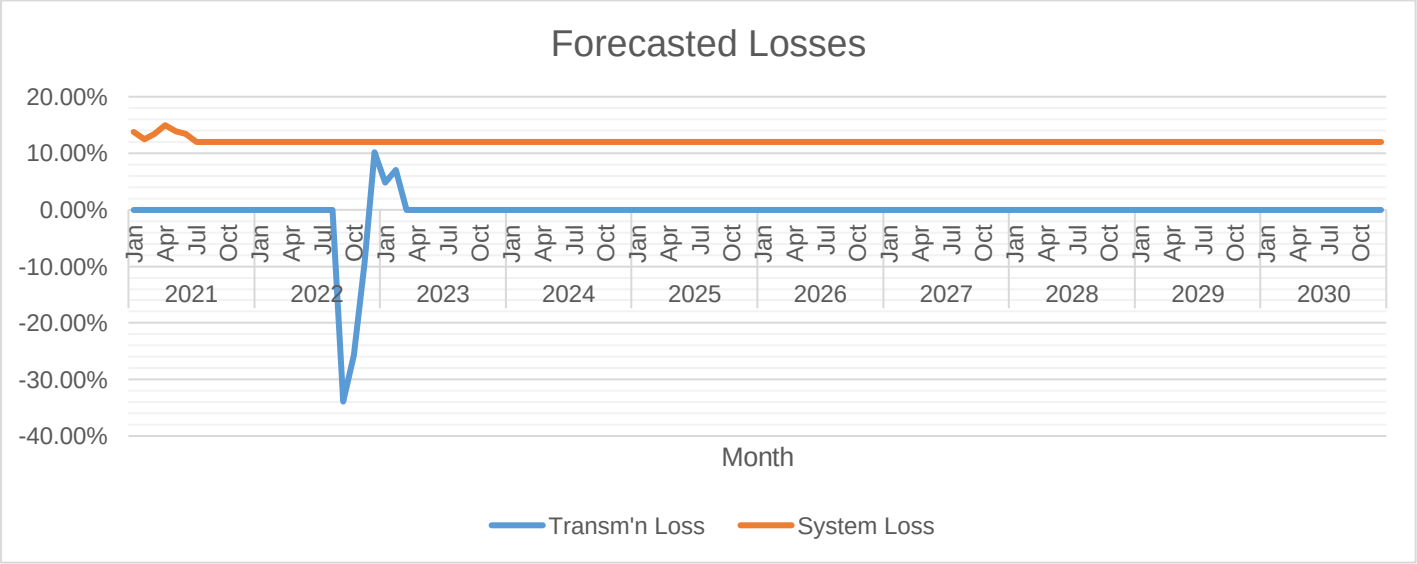
	Jul	40,694	35,811	4,883	12.00%
	Aug	41,077	36,148	4,929	12.00%
	Sep	41,627	36,631	4,995	12.00%
	Oct	41,783	36,769	5,014	12.00%
	Nov	41,463	36,488	4,976	12.00%
	Dec	39,750	34,980	4,770	12.00%
2028	Jan	37,282	32,808	4,474	12.00%
	Feb	38,389	33,783	4,607	12.00%
	Mar	39,617	34,863	4,754	12.00%
	Apr	43,175	37,994	5,181	12.00%
	May	44,102	38,810	5,292	12.00%
	Jun	43,967	38,691	5,276	12.00%
	Jul	42,451	37,357	5,094	12.00%
	Aug	42,834	37,694	5,140	12.00%
	Sep	43,384	38,178	5,206	12.00%
	Oct	43,540	38,315	5,225	12.00%
	Nov	43,221	38,034	5,186	12.00%
	Dec	41,507	36,526	4,981	12.00%
2029	Jan	39,039	34,354	4,685	12.00%
	Feb	40,147	35,329	4,818	12.00%
	Mar	41,375	36,410	4,965	12.00%
	Apr	44,933	39,541	5,392	12.00%
	May	45,859	40,356	5,503	12.00%
	Jun	45,725	40,238	5,487	12.00%
	Jul	44,209	38,904	5,305	12.00%
	Aug	44,592	39,241	5,351	12.00%
	Sep	45,141	39,724	5,417	12.00%
	Oct	45,297	39,862	5,436	12.00%
	Nov	44,978	39,581	5,397	12.00%
	Dec	43,265	38,073	5,192	12.00%
2030	Jan	40,797	35,901	4,896	12.00%
	Feb	41,904	36,876	5,028	12.00%
	Mar	43,132	37,956	5,176	12.00%
	Apr	46,690	41,087	5,603	12.00%
	May	47,617	41,903	5,714	12.00%
	Jun	47,482	41,784	5,698	12.00%
	Jul	45,966	40,450	5,516	12.00%
	Aug	46,349	40,787	5,562	12.00%
	Sep	46,899	41,271	5,628	12.00%
	Oct	47,055	41,408	5,647	12.00%
	Nov	46,735	41,127	5,608	12.00%
	Dec	45,022	39,619	5,403	12.00%

MWh Offtake was forecasted using Regression Analysis. The assumed load factor is 60%. On last quarter of year 2022 there was a deficit on energy and capacity, we reflect this just to show that we need a Certificate of Exemption (COE) for these period. On the first quarter of year 2023 there was a surplus in energy but deficit in capacity, only also to show how complicated the Energy Supply Agreement of ORMECO with different power suppliers and also to justify the need of this COE.

Based on the same study, the Distribution System can adequately convey electricity to customers.



MWh Output was expected to grow at an average rate of 3.6% annually.



Data reflected from January 2021 to June 2021 was actual. As shown on the graph, transmission loss there was an abrupt change due to deficit energy from September to November and excess energy from December to February. On December to February period, we reflect that there was an excess energy but deficit on capacity. This can be a justification that ORMECO needs a COE for this period to compensate these deficit.

Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2014-085RC	Base	DMCI Power Corporation	15.00	50,600	2/7/2013	2/6/2035
2011-017RC	Base	Ormin Power, Inc.	6.40	59,270	11/11/2010	11/11/2026

The PSA with DMCI Power Corporation filed with ERC under Case No. 2014-085RC was procured through Competitive Selection process. It was selected to provide for base and regulating requirements due to inadequate power supply of ORMECO and that it is capable to synchronized operation in parallel with the power system both at regulation and base loading mode. Historically, the utilization of the PSA is 120.95% this is due to reliability issue brought by force majeure on year 2015 to 2019, and also it is the regulating power plant in Oriental Mindoro Grid and has to run 24 hours of at least 2 units online to serve reliable power supply. The actual billed overall monthly charge under the PSA ranged from 5.6404 P/kWh to 6.3172 P/KWh in the same period under Subsidized Approved Generation Rate (SAGR). There were discrepancies recorded between the forecasted and the Minimum MWh/yr because of the erratic load curve of the Oriental Mindoro Province and also due to the variable renewable resources on our system. Due to this erratic load curve, we have excess in terms of energy (MWh) and have a shortage in terms of capacity (MW).

The PSA with ORMIN Power, Inc. filed with ERC under Case No. 2011-017RC was procured through Competitive Selection process. It was selected to provide for base requirements in order to steer clear of the looming power supply in the immediate future and as a long-term solution also in order to assure the continuous, stable and efficient supply of electricity in the Province of Oriental Mindoro. Historically, the utilization of the PSA is 70.01%. Outages of the plant led to unserved energy of around 5035.1758 MWh in the past year. The actual billed overall monthly charge under the PSA is 5.6404 P/kWh in the same period under Subsidized Approved Generation Rate (SAGR).

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2013-164RC	Base	Other	4.40	38,544	11/22/2018	11/22/2043
2013-212RC	Base	Ormin Power, Inc.	6.00	51,840	1/14/2019	1/14/2044
2014-001RC	Base	Other	6.00	66,000	12/5/2019	12/4/2044
2012-131RC	Base	DU-owned	1.20	9,600	1/24/2012	1/24/2044
2013-041RC	Base	Mindoro Grid Corporation	5.00	43,560	12/18/2012	3/16/2022
2014-003RC	Base	Power One Corporation	9.00	78,840	5/14/2012	5/13/2032
LCMHPP-UPPER	Base	DU-owned	1.50	13,140	2/2/2015	2/2/2045
POC BANSUD-EPP	Intermediate	Power One Corporation	4.00	1,200	4/19/2020	5/17/2021
GBH-EPP	Base	GBH Power Resources, Inc.	2.00	1,030	12/26/2020	4/26/2021
FPTAS-EPP	Intermediate	Other	3.00	800	4/30/2020	1/19/2021

The PSA with Sta. Clara Power Corporation filed with ERC under Case No. 2013-164RC was procured through Memorandum of Understanding (MOU) with ORMECO. It was selected to provide for base requirements due to the desires of ORMECO to ensure the adequacy and reliability of the supply of power to its franchise area with the use of renewable sources of energy and to distribute the same to the residents, members, and consumers of its service area. Historically, the utilization of the PSA is 59.9%. Outages of the plant led to unserved energy of around 15454.92 MWh in the past year. The actual billed overall monthly charge under the PSA is 5.9000 P/kWh in the same period under Feed-In Tariff Structure. Sta. Clara Power Corporation can't obtain the contracted MWh due to its intermittent dependable capacity.

The PSA with Ormin Power, Inc. filed with ERC under Case No. 2013-212RC was procured through MOU with ORMECO. It was selected to provide for base requirements due to the desires of ORMECO to ensure the adequacy and reliability of the supply of power to its franchise area with the use of renewable sources of energy and to distribute the same to the residents, members, and consumers of its service area. Historically, the utilization of the PSA is 50.69%. Outages of the plant led to unserved energy of around 24159.218 MWh in the past year. The actual billed overall monthly charge under the PSA is 5.6404 P/kWh in the same period under SAGR. Inabasan Mini Hydro Power Plant can't obtain the contracted MWh due to its intermittent dependable capacity. Even if it reaches its full capacity during rainy season, Inabasan generates very low supply of power during dry season.

The PSA with Philippine Hybrid Energy System, Inc. filed with ERC under Case No. 2014-001RC was procured through Swiss Challenge. It was selected to provide for base requirements due to the load requirement of ORMECO to meet during the peak demand for the succeeding years and as a long term solution in order to avoid looming power supply in the immediate future. Historically, the utilization of the PSA is 15.36%. Outages of the plant led to unserved energy of around 19465.36 MWh in the past year. The actual billed overall monthly charge under the PSA is 5.6404 P/kWh in the same period under SAGR. PHESI can't obtain the contracted MWh due to its intermittent dependable capacity. But as soon as its additional equipment, the Battery Energy Storage System, is operational it will help PHESI to reach its monthly Minimum MWh Offtake.

The PSA with Linao Cawayan Mini Hydro Power Plant-Lower Cascade (LCMHPP-Lower Cascade) filed with ERC under Case No. 2012-131RC was owned by ORMECO. It was selected to provide for base requirements due to help alleviate the power crisis and the persistent brownouts it experienced in 2011 due to power shortage caused by the unexpected increase in road demand brought about by the operation of various commercial establishments and industrial businesses within its franchise area and the reduced power supply from the National power Corporation (NPC). Historically, the utilization of the PSA is 47.55%. Outages of the plant led to unserved energy of around 5035.1758 MWh in the past year. The actual billed overall monthly charge under the PSA is 5.9000 P/kWh in the same period Feed-In Tariff Structure. Lower Cascade can't obtain the contracted MWh due to its intermittent dependable capacity and low generation during dry season.

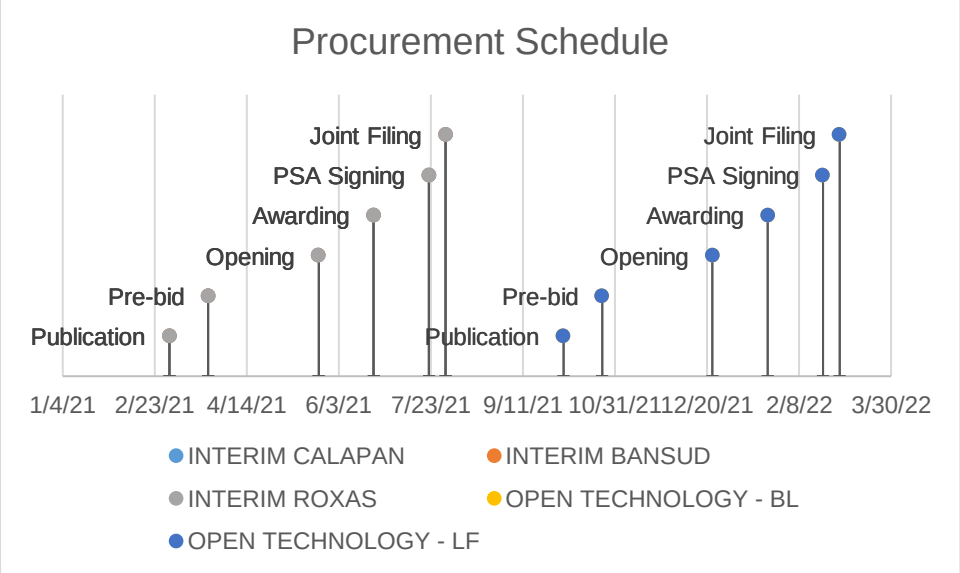
The PSA with Mindoro Grid Corporation filed with ERC under Case No. 2013-041RC was procured through Competitive Selection Process (CSP) for Calapan and Bongabong Power Plants. It was selected to provide for base requirements due to the load requirement of ORMECO to meet during the peak demand to its franchise area. Historically, the utilization of the PSA are 72.78% and 76.99% respectively. Outages of the plant led to unserved energy of around 11857.168 MWh and 10023.012 MWh correspondingly in the past year. The actual billed overall monthly charge under the PSA is 5.6404 P/kWh in the same period under SAGR. MGC can't obtain its contracted capacity is because this power plant is embedded at the 5MVA power transformer of Roxas substation, that's why it cannot maximize its full capacity.

The PSA with Power One Corporation filed with ERC under Case No. 2014-003RC was procured through Competitive Selection Process (CSP). It was selected to provide for base and peaking requirements to ensure the adequate provision of power supply the franchise area. Historically, the utilization of the PSA is 67.63%. Outages of the plant led to unserved energy of around 25520.328 MWh in the past year. The actual billed overall monthly charge under the PSA is 5.6404 P/kWh in the same period under SAGR. There were discrepancies recorded between the forecasted and the Minimum MWh/yr because of the erratic load curve of the Oriental Mindoro Province and also due to the variable renewable resources on our system

The PSA with Linao Cawayan Mini Hydro Power Plant Upper Cascade (LCMHPP-Upper Cascade) had pending application filed with ERC and owned by ORMECO. It was selected to provide for base requirements to ensure the adequate provision of power supply the franchise area. Historically, the utilization of the PSA is 47.63%. Outages of the plant led to unserved energy of around 6882 MWh in the past year. The actual billed overall monthly charge under the PSA is 5.6404 P/kWh in the same period under Feed-In Tariff Structure. Lower Cascade can't obtain the contracted MWh due to its intermittent dependable capacity and low generation during dry season.

The EPSA with Frontier Power Technologies and Allied Services, GBH Power Resource Inc., DMCI Power Corporation and Power One Corporation for their Emergency Power Procurement had pending application with ERC and were procured through Negotiated Power Procurement by virtue of Certificate of Exception (COE) to conduct CSP from Department of Energy (DOE). It was selected to provide for intermediate requirements due to the load requirement of ORMECO to meet during the peak demand to its franchise for the period of 1 year. The actual billed overall monthly charge under the EPSA ranged from 10.00 P/kWh to 15.00 P/KWh in the same period under True Cost Generation Rate (TCGR).

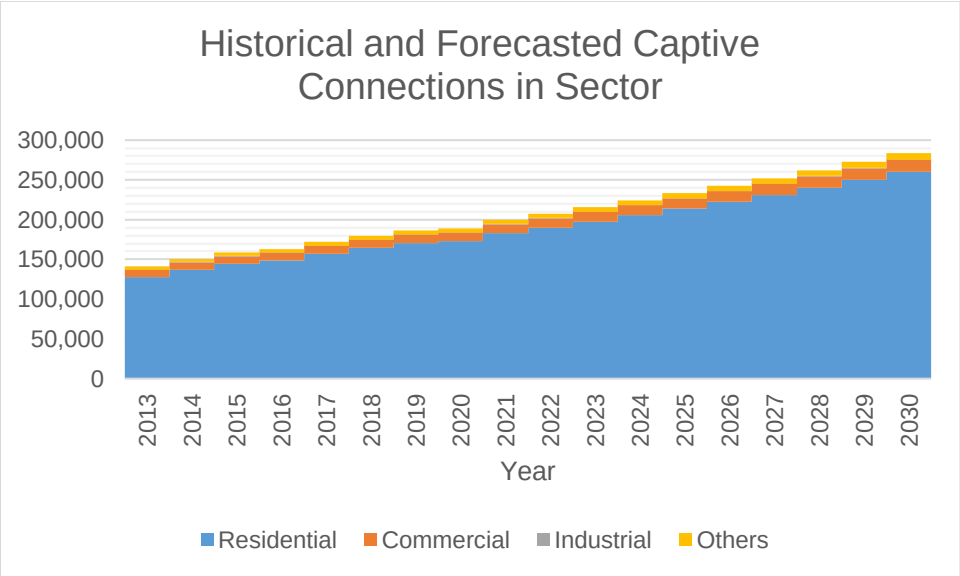
	INTERIM CALAPAN	INTERIM BANSUD	INTERIM ROXAS	OPEN TECHNOLOGY - BL	OPEN TECHNOLOGY - LF
Type	Intermediate	Intermediate	Intermediate	Base	Intermediate
Minimum MW	5.00	5.00	5.00	47.00	13.00
Minimum MWh/yr	21,000	21,000	21,000	56,502	8,237
PSA Start	5/5/2021	5/5/2021	3/16/2022	3/1/2023	3/1/2023
PSA End	8/28/2022	8/28/2022	8/28/2022	12/31/2031	12/31/2031
Publication	3/3/2021	3/3/2021	3/3/2021	10/3/2021	10/3/2021
Pre-bid	3/24/2021	3/24/2021	3/24/2021	10/24/2021	10/24/2021
Opening	5/23/2021	5/23/2021	5/23/2021	12/23/2021	12/23/2021
Awarding	6/22/2021	6/22/2021	6/22/2021	1/22/2022	1/22/2022
PSA Signing	7/22/2021	7/22/2021	7/22/2021	2/21/2022	2/21/2022
Joint Filing	7/31/2021	7/31/2021	7/31/2021	3/2/2022	3/2/2022



For the procurement of 15 MW Interim Power supply which is planned to be available on May 5, 2021, the first publication or launch of CSP will be on March 3, 2021. Joint filing is planned on April 25, 2021, in accordance with DOE's 2018 CSP Policy. 5 MW of Interim Roxas was part of this 15MW Interim Power Supply which will be available on March 2022 until August 2022.

For the procurement of 60 MW of Power supply which is planned to be available on May 2023, the first publication or launch of CSP will be on October 3, 2021. Joint filing is planned on March 2, 2022, in accordance with DOE's 2018 CSP Policy.

Captive Customer Connections



The number of captive connections is expected to grow at a rate of 4.21% annually. Said customer class is expected to account for 62.65% of the total consumption.

The assumptions made in the forecast are the basic linear forecasting the same reflected in the National Statistics Office table of population.