

# **Power Supply Procurement Plan C.Y. 2021 – 2030**

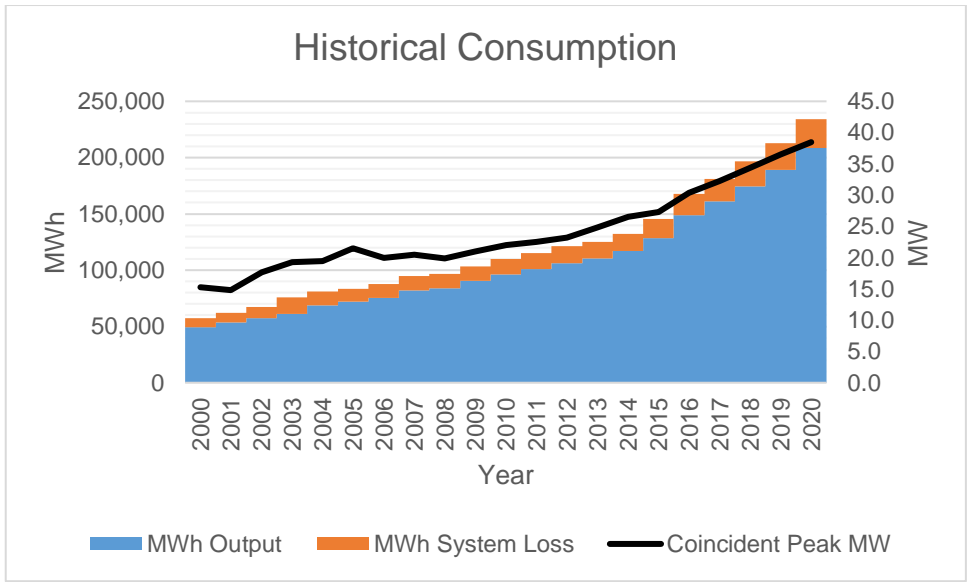
**ILOILO II ELECTRIC COOPERATIVE, INC  
(ILECO II)**

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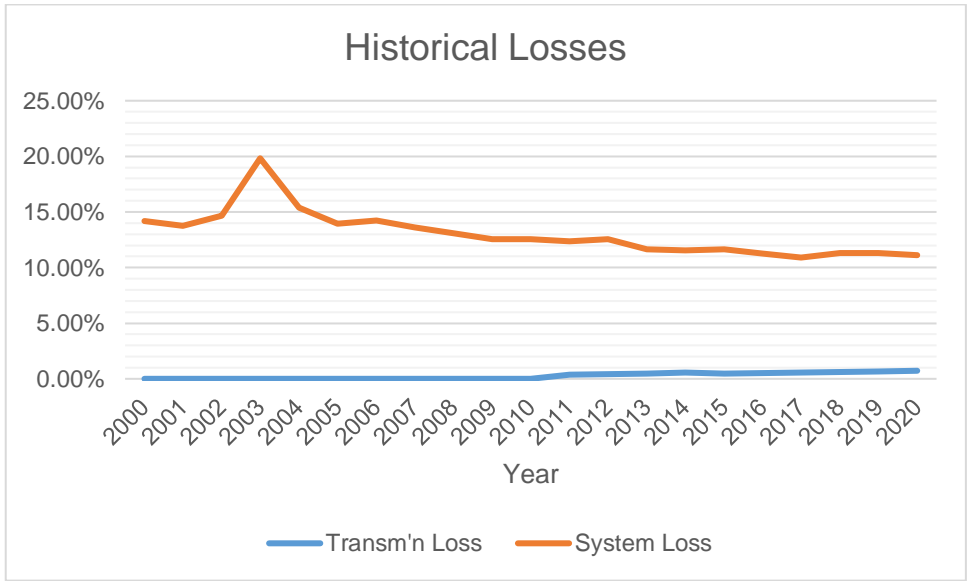
## Historical Consumption Data

	Coincident Peak MW	MWh Offtake	WESM	MWh Input	MWh Output	MWh System Loss	Load Factor	Discrepancy	Transm'n Loss	System Loss
2000	15.29	57,444	0	57,444	49,299	8,145	43%	0.00%	0.00%	14.18%
2001	14.81	61,832	0	61,832	53,546	8,492	48%	0.33%	0.00%	13.73%
2002	17.69	67,075	0	67,075	57,454	9,825	43%	0.30%	0.00%	14.65%
2003	19.32	75,843	0	75,843	61,014	15,035	45%	0.27%	0.00%	19.82%
2004	19.43	81,015	0	81,015	68,790	12,458	48%	0.29%	0.00%	15.38%
2005	21.51	83,373	0	83,373	71,980	11,622	44%	0.27%	0.00%	13.94%
2006	19.92	87,599	0	87,599	75,388	12,465	50%	0.29%	0.00%	14.23%
2007	20.49	94,734	0	94,734	82,103	12,874	53%	0.26%	0.00%	13.59%
2008	19.91	96,495	0	96,495	83,875	12,611	55%	-0.01%	0.00%	13.07%
2009	21.00	103,355	0	103,355	90,375	12,974	56%	-0.01%	0.00%	12.55%
2010	22.04	109,776	0	109,776	96,013	13,763	57%	0.00%	0.00%	12.54%
2011	22.54	115,615	21,329	115,185	100,936	14,249	58%	0.00%	0.37%	12.37%
2012	23.24	121,972	11,328	121,438	106,190	15,225	60%	-0.02%	0.44%	12.54%
2013	24.84	125,655	10,095	125,049	110,477	14,572	57%	0.00%	0.48%	11.65%
2014	26.49	133,147	12,708	132,384	117,093	15,291	57%	0.00%	0.57%	11.55%
2015	27.32	146,258	24,808	145,583	128,622	16,961	61%	0.00%	0.46%	11.65%
2016	30.38	168,723	48,451	167,847	148,907	18,937	63%	0.00%	0.52%	11.28%
2017	32.23	182,104	54,592	181,046	161,320	19,736	64%	0.01%	0.58%	10.90%
2018	34.34	196,567	68,995	195,337	174,330	22,125	65%	0.57%	0.63%	11.33%
2019	36.47	212,805	86,291	211,393	188,870	23,934	66%	0.67%	0.66%	11.32%
2020	38.47	234,151	87,504	232,456	208,337	25,814	69%	0.73%	0.72%	11.10%

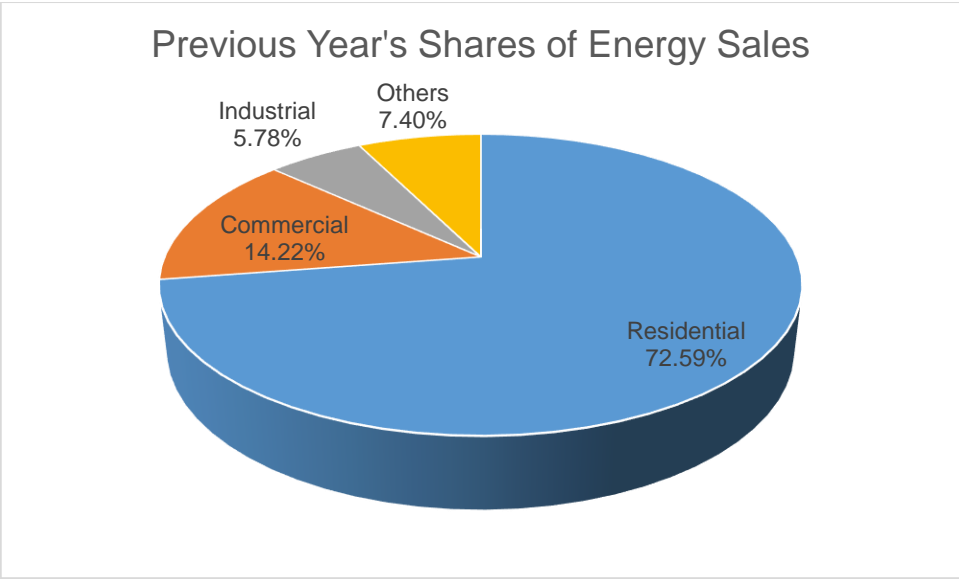
Peak demand has recorded from 36.47 MW in year 2019 to 38.47 MW in the year 2020 at a rate of 5.47%. The Energy Offtake increased from 211,393 MWh in 2019 to 232,456 MWh in 2020 at a rate of 9.96%. This increase in the peak demand and energy offtake was due to additional residential customers, commercial and industrial establishments. Within the same period, Load Factor ranged from 65% to 66%. There was an abrupt increase on demand and energy sales on 2016 due to massive implementation and energization of sitios for Sitio Electrification Program (SEP).



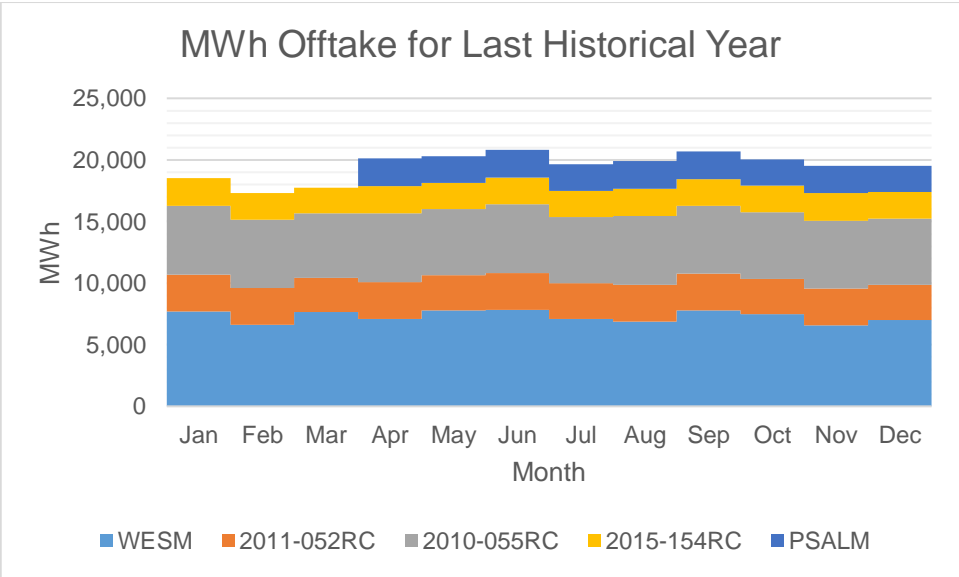
MWh Output increased from year 2019 to year 2020 at a rate of 10.34%, while MWh System Loss increased at a rate of 6.89% within the same period.



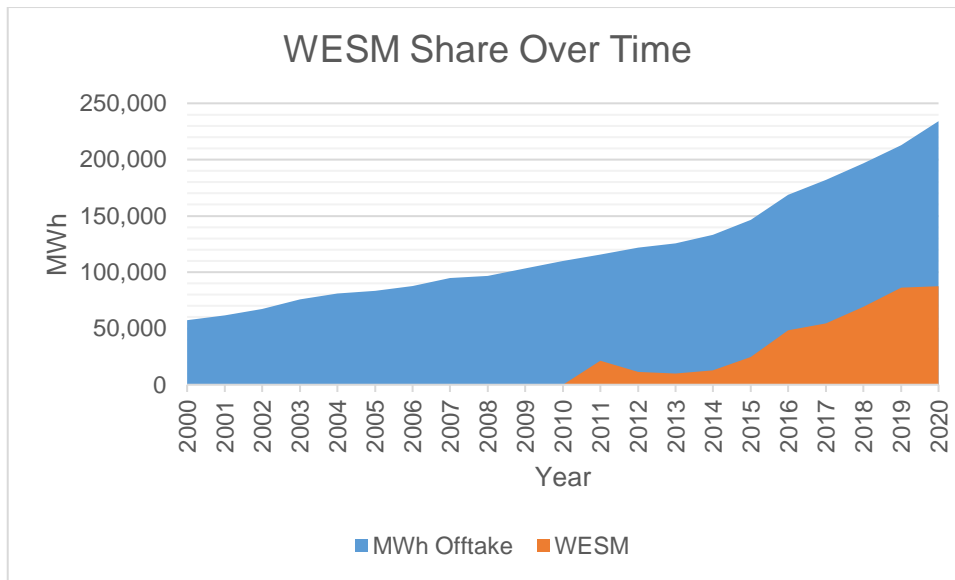
Historically, Transmission Loss ranged from 0.0% to 0.72% while System Loss ranged from 7.92% to 11.64% in the year 2020. Transmission Loss peaked at 0.72% and System Loss peaked at 11.64% in year 2020 due to summer season.



ILECO II is located at the central part of Iloilo Province and covers rural areas. ILECO II's customers are mostly residential. In terms of sales, residential customers account for the bulk of energy sales at 72.59% due to the high number of connections. In contrast, industrial customers accounted for only 5.78% of energy sales due to the low number of connections.

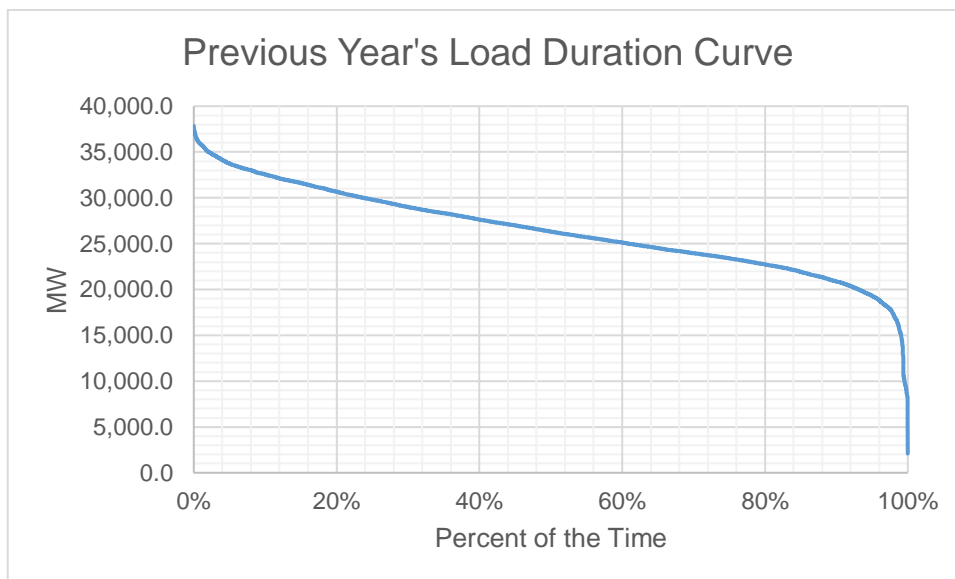


For all PSA's, the total Offtake for the last historical year is lower than the quantity stipulated in the PSA. The PSA with Panay Energy Development Corporation (PEDC) Unit 1&2 under Energy Regulatory Commission (ERC) Case No. 2010-055RC accounts for the bulk of MWh Offtake.

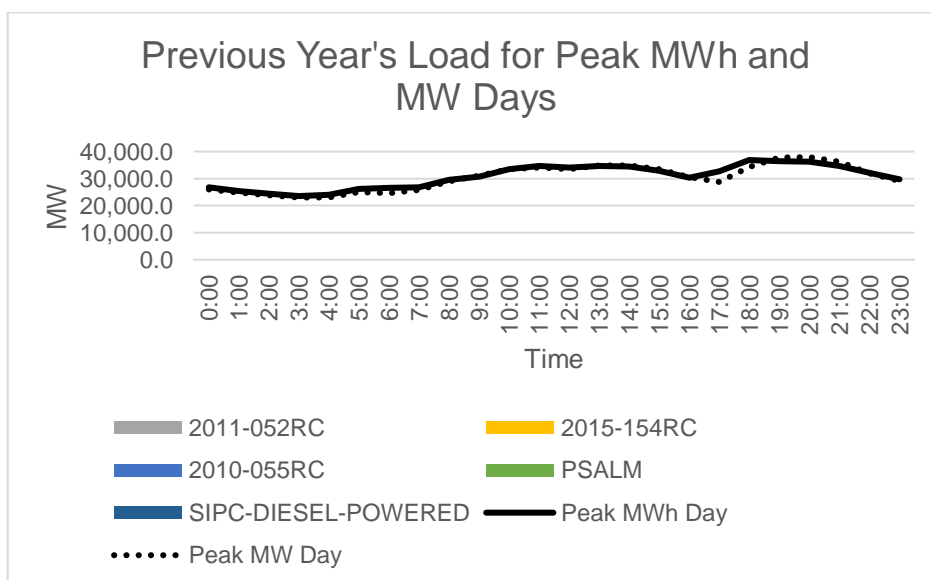


Currently, ILECO II is sourcing its un-contracted demand from Wholesale Electricity Spot Market or WESM. ILECO II started to engage in WESM in the year 2011 and it has a positive impact in the blended rates. Market exposure of ILECO II increases in the succeeding years. WESM Offtake increased from 86,291 MWh in 2018 to 87,504 MWh in 2020 at a rate of 1.41% due to increase in demand and energy sales of new customers. The share of WESM in the total Offtake ranged from 30% to 37%. The net WESM transaction is positive from 1.82 pesos per kWh to 4.02 pesos per kWh as the bulk MWh Offtake supply for the year 2020.

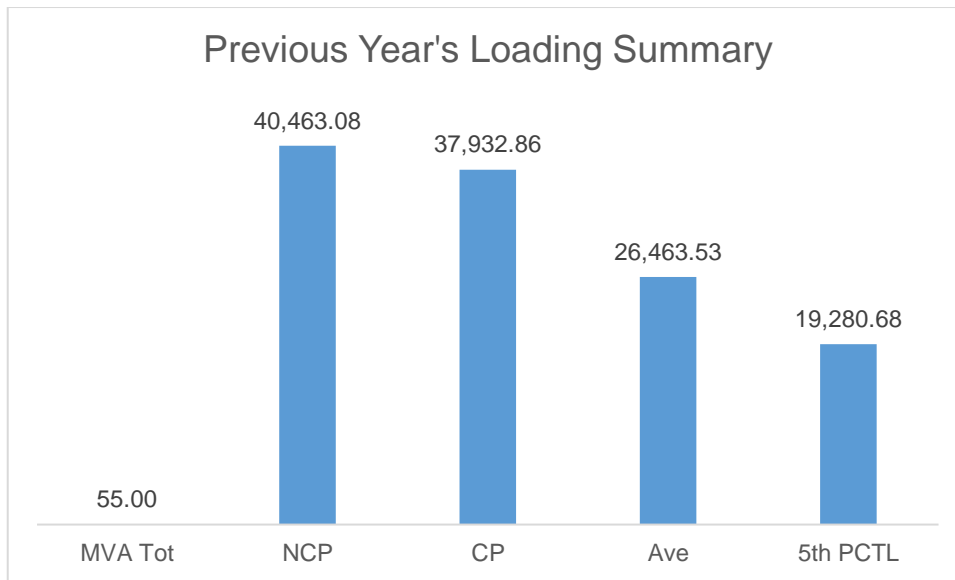
## Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 15.17 MW and the maximum load is 38.47 MW for the last historical year. The mid merit load reached up to 36 MW and during day peak.



Peak MW and Peak daily MWh occurred on evening due to Residential customer. As shown in the Load Curves, the available supply is lower than the Peak Demand.



The Non-coincident Peak Demand is 40.46 MW, which is around 74% of the total substation capacity of 55 MVA at a power factor of 99.25%. The load factor or the ratio between the Average Load of 26.46 MW and the Non-coincident Peak Demand is 65%. A safe estimate of the true minimum load is the fifth percentile load of 19.28 MW which is 48% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
Pototan Substation	10	7707.280
Dumangas Substation	15	12400.360
Calinog Substation	10	7071.400
Passi Substation	10	7668.640
Janiuay Substation	10	5615.400

At present, ILECO II has five (5) substations and has a total capacity of 55 MVA. Pototan Substation where the main office of ILECO II is located that covers 3 municipalities. Dumangas Substation with the capacity of 15MVA, covers 4 municipalities and where most of our industrial customer is located with the highest peak demand of 12.4 MW. Passi substation covers 2 municipalities and one component City and with the increasing demand due to rapid increase commercial establishment. The Calinog substation covers 3 municipalities and the Janiuay substation 3 municipalities, and that was upgraded from 5MVA to 10MVA in June 2019.

There are three (4) substations loaded at above 70% namely: Pototan, Dumangas, Calinog and Passi Substation. This loading problem will be solved by uprating of power transformer.

## 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	39.01	17.00	10.00	0		44%	69%	-12.01
	Feb	38.96	19.00	10.00	0		49%	74%	-9.96
	Mar	37.50	19.00	10.00	0		51%	77%	-8.50
	Apr	39.16	19.00	10.00	0		49%	74%	-10.16
	May	39.23	19.00	10.00	0		48%	74%	-10.23
	Jun	39.70	19.00	10.00	0		48%	73%	-10.70
	Jul	38.33	19.00	10.00	0		50%	76%	-9.33
	Aug	37.82	19.00	10.00	0		50%	77%	-8.82
	Sep	38.81	19.00	10.00	0		49%	75%	-9.81
	Oct	39.57	19.00	10.00	0		48%	73%	-10.57
	Nov	38.55	19.00	10.00	0		49%	75%	-9.55
	Dec	40.04	19.00	10.00	0		47%	72%	-11.04
2022	Jan	40.49	19.00	10.00	6		47%	86%	-5.49
	Feb	40.44	19.00	10.00	6		47%	87%	-5.44
	Mar	38.93	19.00	10.00	6		49%	90%	-3.93
	Apr	40.65	19.00	10.00	6		47%	86%	-5.65
	May	40.72	19.00	10.00	6		47%	86%	-5.72
	Jun	41.21	19.00	10.00	6		46%	85%	-6.21
	Jul	39.79	19.00	10.00	6		48%	88%	-4.79
	Aug	39.26	19.00	10.00	6		48%	89%	-4.26
	Sep	40.28	19.00	10.00	6		47%	87%	-5.28
	Oct	41.08	19.00	10.00	6		46%	85%	-6.08
	Nov	40.02	19.00	10.00	6		47%	87%	-5.02
	Dec	41.56	19.00	10.00	6		46%	84%	-6.56
2023	Jan	41.86	19.00	4.00	8		45%	74%	-10.86
	Feb	41.80	19.00	4.00	8		45%	74%	-10.80
	Mar	40.24	19.00	4.00	8		47%	77%	-9.24
	Apr	42.02	19.00	4.00	8		45%	74%	-11.02
	May	42.09	19.00	4.00	8		45%	74%	-11.09

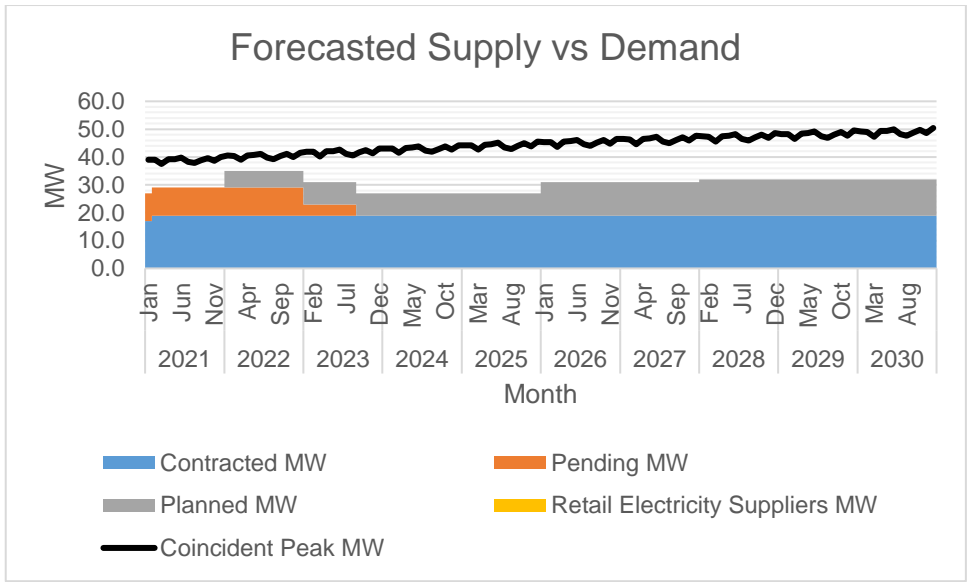


	Jun	42.60	19.00	4.00	8		45%	73%	-11.60
	Jul	41.13	19.00	4.00	8		46%	75%	-10.13
	Aug	40.58	19.00	4.00	8		47%	76%	-9.58
	Sep	41.64	19.00	0.00	8		46%	65%	-14.64
	Oct	42.46	19.00	0.00	8		45%	64%	-15.46
	Nov	41.37	19.00	0.00	8		46%	65%	-14.37
	Dec	42.96	19.00	0.00	8		44%	63%	-15.96
2024	Jan	43.12	19.00	0.00	8		44%	63%	-16.12
	Feb	43.06	19.00	0.00	8		44%	63%	-16.06
	Mar	41.45	19.00	0.00	8		46%	65%	-14.45
	Apr	43.28	19.00	0.00	8		44%	62%	-16.28
	May	43.36	19.00	0.00	8		44%	62%	-16.36
	Jun	43.89	19.00	0.00	8		43%	62%	-16.89
	Jul	42.37	19.00	0.00	8		45%	64%	-15.37
	Aug	41.80	19.00	0.00	8		45%	65%	-14.80
	Sep	42.89	19.00	0.00	8		44%	63%	-15.89
	Oct	43.74	19.00	0.00	8		43%	62%	-16.74
	Nov	42.62	19.00	0.00	8		45%	63%	-15.62
	Dec	44.25	19.00	0.00	8		43%	61%	-17.25
2025	Jan	44.29	19.00	0.00	8		43%	61%	-17.29
	Feb	44.23	19.00	0.00	8		43%	61%	-17.23
	Mar	42.58	19.00	0.00	8		45%	63%	-15.58
	Apr	44.46	19.00	0.00	8		43%	61%	-17.46
	May	44.54	19.00	0.00	8		43%	61%	-17.54
	Jun	45.08	19.00	0.00	8		42%	60%	-18.08
	Jul	43.52	19.00	0.00	8		44%	62%	-16.52
	Aug	42.94	19.00	0.00	8		44%	63%	-15.94
	Sep	44.06	19.00	0.00	8		43%	61%	-17.06
	Oct	44.93	19.00	0.00	8		42%	60%	-17.93
	Nov	43.77	19.00	0.00	8		43%	62%	-16.77
	Dec	45.46	19.00	0.00	8		42%	59%	-18.46
2026	Jan	45.38	19.00	0.00	12		42%	68%	-14.38
	Feb	45.32	19.00	0.00	12		42%	68%	-14.32
	Mar	43.63	19.00	0.00	12		44%	71%	-12.63

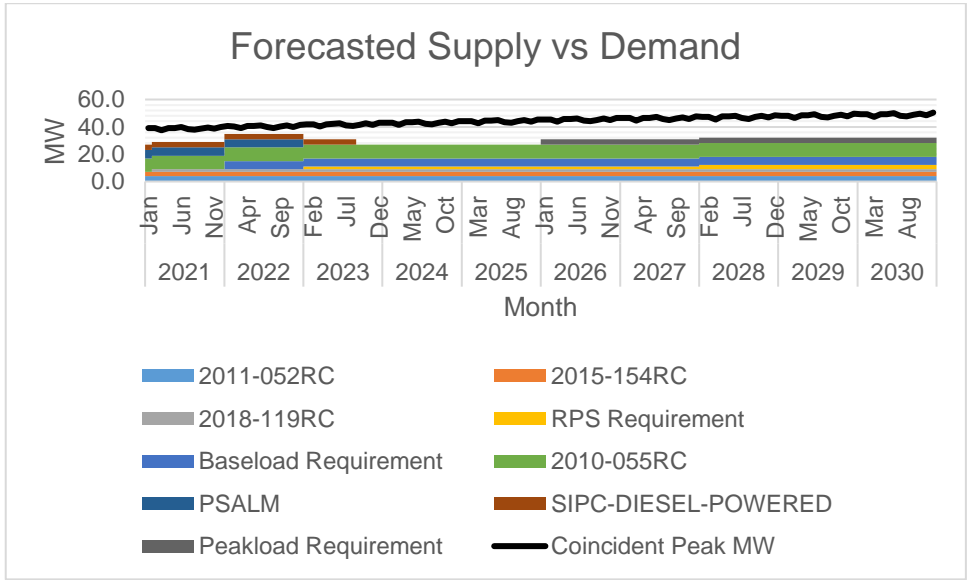
	Apr	45.55	19.00	0.00	12		42%	68%	-14.55
	May	45.64	19.00	0.00	12		42%	68%	-14.64
	Jun	46.19	19.00	0.00	12		41%	67%	-15.19
	Jul	44.59	19.00	0.00	12		43%	70%	-13.59
	Aug	44.00	19.00	0.00	12		43%	70%	-13.00
	Sep	45.14	19.00	0.00	12		42%	69%	-14.14
	Oct	46.04	19.00	0.00	12		41%	67%	-15.04
	Nov	44.85	19.00	0.00	12		42%	69%	-13.85
	Dec	46.58	19.00	0.00	12		41%	67%	-15.58
2027	Jan	46.40	19.00	0.00	12		41%	67%	-15.40
	Feb	46.34	19.00	0.00	12		41%	67%	-15.34
	Mar	44.61	19.00	0.00	12		43%	69%	-13.61
	Apr	46.58	19.00	0.00	12		41%	67%	-15.58
	May	46.66	19.00	0.00	12		41%	66%	-15.66
	Jun	47.23	19.00	0.00	12		40%	66%	-16.23
	Jul	45.60	19.00	0.00	12		42%	68%	-14.60
	Aug	44.99	19.00	0.00	12		42%	69%	-13.99
	Sep	46.16	19.00	0.00	12		41%	67%	-15.16
	Oct	47.07	19.00	0.00	12		40%	66%	-16.07
	Nov	45.86	19.00	0.00	12		41%	68%	-14.86
	Dec	47.62	19.00	0.00	12		40%	65%	-16.62
2028	Jan	47.36	19.00	0.00	13		40%	68%	-15.36
	Feb	47.30	19.00	0.00	13		40%	68%	-15.30
	Mar	45.53	19.00	0.00	13		42%	70%	-13.53
	Apr	47.54	19.00	0.00	13		40%	67%	-15.54
	May	47.63	19.00	0.00	13		40%	67%	-15.63
	Jun	48.21	19.00	0.00	13		39%	66%	-16.21
	Jul	46.54	19.00	0.00	13		41%	69%	-14.54
	Aug	45.92	19.00	0.00	13		41%	70%	-13.92
	Sep	47.12	19.00	0.00	13		40%	68%	-15.12
	Oct	48.05	19.00	0.00	13		40%	67%	-16.05
	Nov	46.81	19.00	0.00	13		41%	68%	-14.81
	Dec	48.61	19.00	0.00	13		39%	66%	-16.61
2029	Jan	48.27	19.00	0.00	13		39%	66%	-16.27

	Feb	48.21	19.00	0.00	13		39%	66%	-16.21
	Mar	46.40	19.00	0.00	13		41%	69%	-14.40
	Apr	48.45	19.00	0.00	13		39%	66%	-16.45
	May	48.54	19.00	0.00	13		39%	66%	-16.54
	Jun	49.13	19.00	0.00	13		39%	65%	-17.13
	Jul	47.43	19.00	0.00	13		40%	67%	-15.43
	Aug	46.80	19.00	0.00	13		41%	68%	-14.80
	Sep	48.02	19.00	0.00	13		40%	67%	-16.02
	Oct	48.97	19.00	0.00	13		39%	65%	-16.97
	Nov	47.70	19.00	0.00	13		40%	67%	-15.70
	Dec	49.54	19.00	0.00	13		38%	65%	-17.54
2030	Jan	49.13	19.00	0.00	13		39%	65%	-17.13
	Feb	49.06	19.00	0.00	13		39%	65%	-17.06
	Mar	47.23	19.00	0.00	13		40%	68%	-15.23
	Apr	49.31	19.00	0.00	13		39%	65%	-17.31
	May	49.40	19.00	0.00	13		38%	65%	-17.40
	Jun	50.00	19.00	0.00	13		38%	64%	-18.00
	Jul	48.27	19.00	0.00	13		39%	66%	-16.27
	Aug	47.63	19.00	0.00	13		40%	67%	-15.63
	Sep	48.87	19.00	0.00	13		39%	65%	-16.87
	Oct	49.84	19.00	0.00	13		38%	64%	-17.84
	Nov	48.55	19.00	0.00	13		39%	66%	-16.55
	Dec	50.42	19.00	0.00	13		38%	63%	-18.42

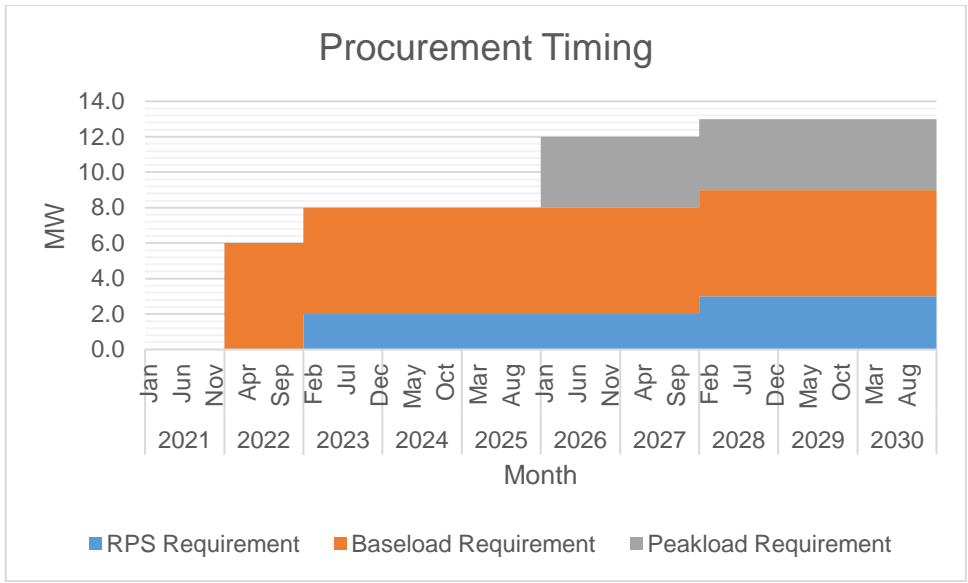
The Peak Demand was forecasted using regression. The average growth rate of the historical coincident peak is 6.52% for eight (8) years. Using this data for forecasting, we came up the model with  $(a + b \log t^2 + c t^{-2} + d t^{-3})$  for coincident peak with adjusted R square of 0.9963172 and MAPE of 0.0054%. With this, we have identified our power supply requirement for Competitive Selection Process (CSP). In addition, peak assumed to occur on the month of December due to whether condition. Monthly Peak Demand is at its lowest on the month of March. In general, Peak Demand is expected to grow at a rate of 2.75% annually.



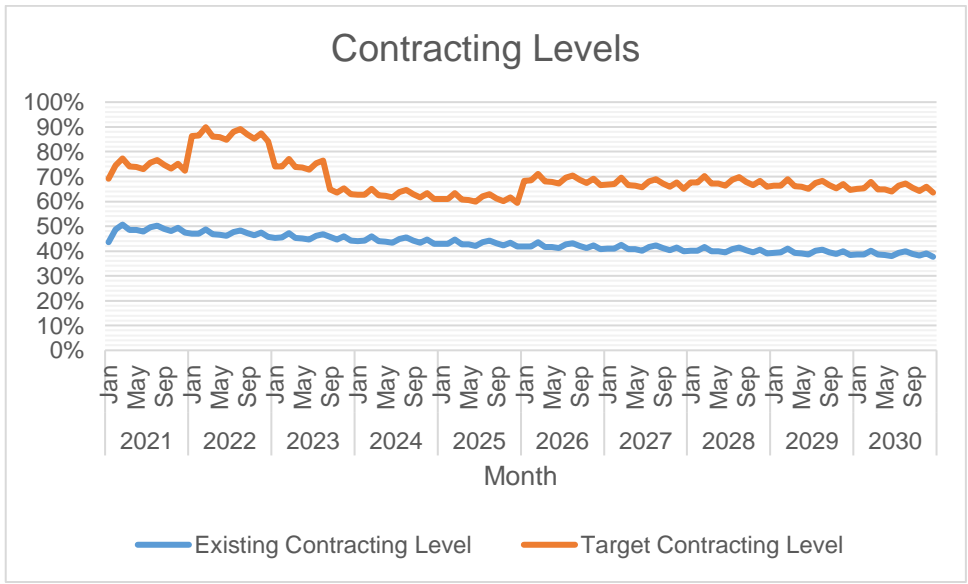
The available supply is generally below the Peak Demand. This is because we are under contract and we are planning to secure additional power supply thru CSP. For the meantime, the difference in the supply shall be taken from WESM.



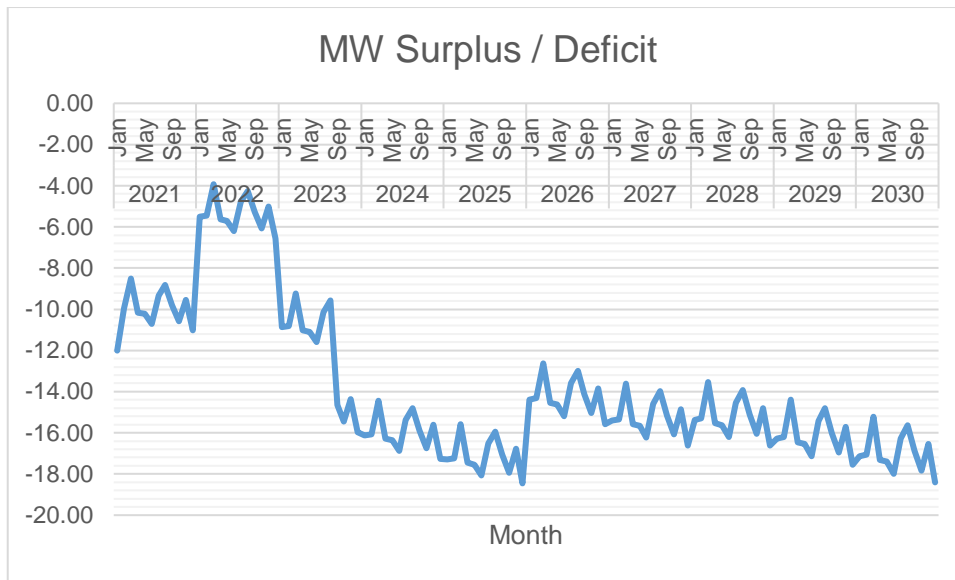
Of the available supply, the largest is 10 MW from Panay Energy Development Corporation (PEDC) Unit 1&2 under ERC Case No. 2010-055RC. This is followed by 4 MW from Green Core Geothermal Plant (GCGI).



The first wave of supply procurement will be for 6 MW planned to be available by the month of December 2021. This will be followed by 2 MW to be available by the month of December 2022. The third procurement will be for 4 MW planned to be available for the year 2026. The procurement shall be included in the aggregated requirements of the Panay-Guimaras EC Power Consortium, Inc. for Competitive Selection Process (CSP).



Currently, there is under-contracting by 50%. The highest target contracting level is 90% which is expected to occur on 2022. The lowest target contracting level is 62% which is expected to occur on 2022.



Currently, there is under-contracting by 19.47 MW. The highest deficit is 18.46 MW which is expected to occur on the month of December 2025. The lowest deficit is 3.93 MW which is expected to occur on the month of March 2022.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2021	Jan	19,285	17,646	1,638	0.00%	8.50%
	Feb	18,046	16,179	1,867	0.00%	10.34%
	Mar	18,479	16,394	2,085	0.00%	11.28%
	Apr	20,973	18,536	2,437	0.00%	11.62%
	May	21,167	18,922	2,245	0.00%	10.60%
	Jun	21,687	19,026	2,661	0.00%	12.27%
	Jul	20,471	18,286	2,185	0.00%	10.67%
	Aug	20,736	18,246	2,490	0.00%	12.01%
	Sep	21,564	19,130	2,433	0.00%	11.28%
	Oct	20,902	18,642	2,260	0.00%	10.81%
	Nov	20,318	18,047	2,272	0.00%	11.18%
	Dec	20,359	18,119	2,240	0.00%	11.00%
2022	Jan	20,312	18,602	1,710	0.00%	8.42%
	Feb	19,007	17,055	1,952	0.00%	10.27%
	Mar	19,463	17,281	2,182	0.00%	11.21%
	Apr	22,090	19,540	2,551	0.00%	11.55%
	May	22,294	19,946	2,348	0.00%	10.53%
	Jun	22,843	20,056	2,786	0.00%	12.20%
	Jul	21,562	19,276	2,286	0.00%	10.60%
	Aug	21,841	19,233	2,607	0.00%	11.94%
	Sep	22,712	20,166	2,546	0.00%	11.21%
	Oct	22,015	19,651	2,364	0.00%	10.74%
	Nov	21,401	19,023	2,377	0.00%	11.11%
	Dec	21,444	19,100	2,344	0.00%	10.93%
2023	Jan	21,279	19,501	1,778	0.00%	8.36%
	Feb	19,912	17,879	2,033	0.00%	10.21%
	Mar	20,390	18,116	2,273	0.00%	11.15%
	Apr	23,142	20,484	2,657	0.00%	11.48%
	May	23,356	20,910	2,445	0.00%	10.47%

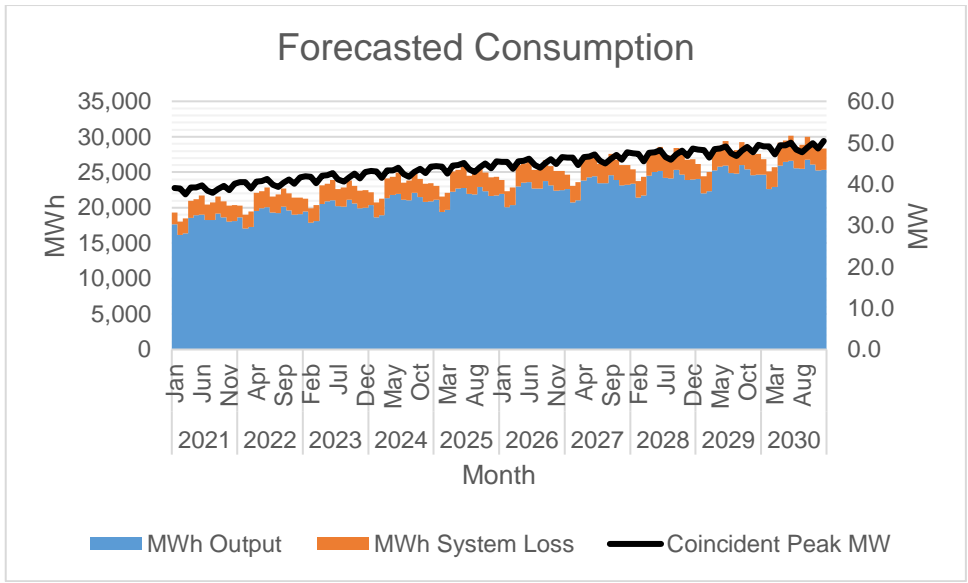
	Jun	23,930	21,026	2,904	0.00%	12.14%
	Jul	22,588	20,208	2,380	0.00%	10.54%
	Aug	22,880	20,163	2,717	0.00%	11.88%
	Sep	23,794	21,141	2,653	0.00%	11.15%
	Oct	23,063	20,601	2,462	0.00%	10.68%
	Nov	22,420	19,943	2,477	0.00%	11.05%
	Dec	22,465	20,023	2,442	0.00%	10.87%
2024	Jan	22,193	20,350	1,842	0.00%	8.30%
	Feb	20,767	18,658	2,109	0.00%	10.16%
	Mar	21,265	18,906	2,359	0.00%	11.09%
	Apr	24,135	21,377	2,758	0.00%	11.43%
	May	24,359	21,821	2,538	0.00%	10.42%
	Jun	24,958	21,942	3,016	0.00%	12.08%
	Jul	23,558	21,088	2,470	0.00%	10.48%
	Aug	23,863	21,041	2,821	0.00%	11.82%
	Sep	24,815	22,062	2,753	0.00%	11.09%
	Oct	24,054	21,499	2,555	0.00%	10.62%
	Nov	23,382	20,811	2,571	0.00%	11.00%
	Dec	23,429	20,895	2,534	0.00%	10.82%
2025	Jan	23,059	21,156	1,903	0.00%	8.25%
	Feb	21,578	19,397	2,181	0.00%	10.11%
	Mar	22,095	19,654	2,441	0.00%	11.05%
	Apr	25,078	22,224	2,854	0.00%	11.38%
	May	25,310	22,685	2,625	0.00%	10.37%
	Jun	25,932	22,811	3,121	0.00%	12.04%
	Jul	24,478	21,923	2,555	0.00%	10.44%
	Aug	24,795	21,875	2,920	0.00%	11.78%
	Sep	25,784	22,936	2,849	0.00%	11.05%
	Oct	24,993	22,350	2,643	0.00%	10.58%
	Nov	24,295	21,635	2,660	0.00%	10.95%
	Dec	24,344	21,722	2,622	0.00%	10.77%
2026	Jan	23,884	21,923	1,961	0.00%	8.21%
	Feb	22,349	20,099	2,250	0.00%	10.07%
	Mar	22,885	20,367	2,519	0.00%	11.01%
	Apr	25,974	23,029	2,945	0.00%	11.34%
	May	26,214	23,507	2,708	0.00%	10.33%
	Jun	26,859	23,637	3,222	0.00%	12.00%
	Jul	25,353	22,717	2,636	0.00%	10.40%
	Aug	25,681	22,667	3,014	0.00%	11.74%
	Sep	26,706	23,767	2,939	0.00%	11.01%
	Oct	25,887	23,159	2,727	0.00%	10.54%
	Nov	25,164	22,419	2,745	0.00%	10.91%
	Dec	25,214	22,509	2,705	0.00%	10.73%
2027	Jan	24,670	22,654	2,016	0.00%	8.17%
	Feb	23,085	20,770	2,315	0.00%	10.03%
	Mar	23,639	21,046	2,593	0.00%	10.97%
	Apr	26,830	23,798	3,032	0.00%	11.30%
	May	27,078	24,291	2,787	0.00%	10.29%
	Jun	27,744	24,426	3,318	0.00%	11.96%
	Jul	26,188	23,475	2,713	0.00%	10.36%
	Aug	26,527	23,423	3,103	0.00%	11.70%

	Sep	27,586	24,560	3,026	0.00%	10.97%
	Oct	26,739	23,932	2,807	0.00%	10.50%
	Nov	25,993	23,167	2,826	0.00%	10.87%
	Dec	26,045	23,260	2,785	0.00%	10.69%
2028	Jan	25,423	23,354	2,069	0.00%	8.14%
	Feb	23,789	21,411	2,378	0.00%	10.00%
	Mar	24,360	21,696	2,664	0.00%	10.93%
	Apr	27,648	24,533	3,115	0.00%	11.27%
	May	27,904	25,041	2,863	0.00%	10.26%
	Jun	28,590	25,180	3,410	0.00%	11.93%
	Jul	26,987	24,200	2,786	0.00%	10.33%
	Aug	27,336	24,147	3,189	0.00%	11.67%
	Sep	28,427	25,318	3,108	0.00%	10.93%
	Oct	27,555	24,671	2,884	0.00%	10.46%
	Nov	26,785	23,882	2,903	0.00%	10.84%
	Dec	26,839	23,978	2,861	0.00%	10.66%
2029	Jan	26,144	24,025	2,119	0.00%	8.11%
	Feb	24,465	22,026	2,438	0.00%	9.97%
	Mar	25,051	22,320	2,732	0.00%	10.90%
	Apr	28,433	25,238	3,195	0.00%	11.24%
	May	28,695	25,760	2,935	0.00%	10.23%
	Jun	29,401	25,904	3,497	0.00%	11.90%
	Jul	27,753	24,895	2,857	0.00%	10.29%
	Aug	28,112	24,840	3,271	0.00%	11.64%
	Sep	29,233	26,046	3,188	0.00%	10.90%
	Oct	28,336	25,380	2,957	0.00%	10.43%
	Nov	27,545	24,568	2,977	0.00%	10.81%
	Dec	27,601	24,667	2,933	0.00%	10.63%
2030	Jan	26,837	24,669	2,168	0.00%	8.08%
	Feb	25,113	22,617	2,496	0.00%	9.94%
	Mar	25,715	22,919	2,797	0.00%	10.88%
	Apr	29,186	25,915	3,271	0.00%	11.21%
	May	29,456	26,451	3,005	0.00%	10.20%
	Jun	30,181	26,599	3,582	0.00%	11.87%
	Jul	28,488	25,563	2,925	0.00%	10.27%
	Aug	28,857	25,507	3,350	0.00%	11.61%
	Sep	30,009	26,745	3,264	0.00%	10.88%
	Oct	29,088	26,060	3,027	0.00%	10.41%
	Nov	28,276	25,227	3,049	0.00%	10.78%
	Dec	28,332	25,329	3,003	0.00%	10.60%

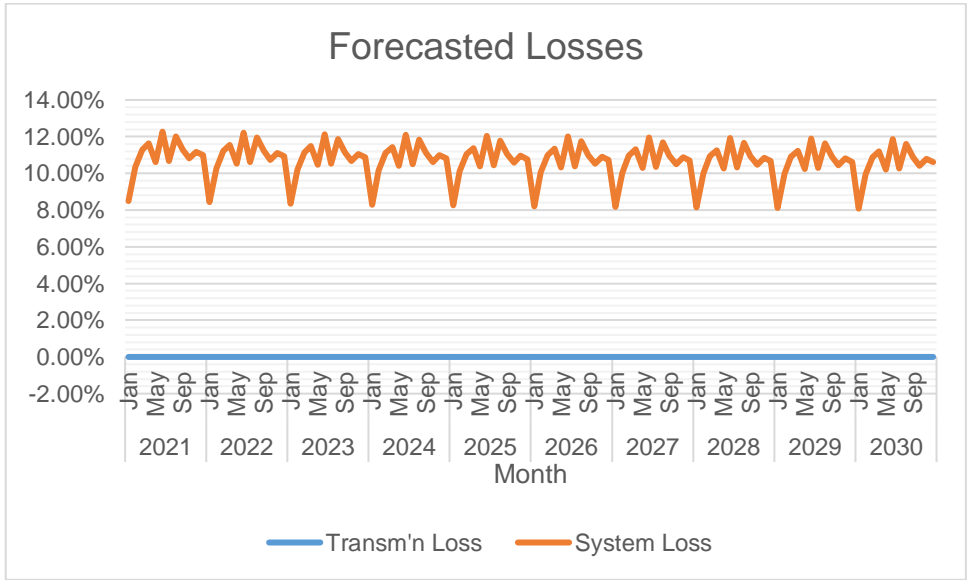
MWh Offtake was forecasted using regression. Using the forecasting model ( $a + b \log t^2$ ) we come up with adjusted R square of 0.9947102 and MAPE of 1.0%. The assumed load factor is 66.2%.

System Loss was calculated through a Load Flow Study conducted on January 2021 by Planning Section using DSAS 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 3.84% annually.



The Transmission Loss is expected to range from 0% to .72% while System Loss is expected to range from 8.08% to 12.27%.

## Power Supply

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2011-052RC	Base	Green Core Geothermal, Inc.	4.00	35,040	12/26/2014	12/25/2030
2010-055RC	Intermediate	Panay Energy Development Corporation	10.00	67,700	03/26/2011	3/25/2036
2015-154RC	Base	Panay Energy Development Corporation	3.00	26,280	1/17/2017	1/16/2042
2018-119RC	Base	GN Power Mariveles Coal Plant Ltd.	2.00	17,520	1/26/2021	1/25/2031

The PSA with Green Core Geothermal Inc. (GCGI) filed under ERC under Case No. 2011-052RC was procured through request for offer. It was selected to provide for baseload requirements due to commercial operation of WESM in the Visayas . Historically, the utilization of the PSA is 99.99%. Outages of the plant led to unserved energy of around 2 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 5.5963 P/kWh in the same period.

The PSA with Panay Energy Development Corporation (PEDC) Unit 1&2 filed under ERC under Case No. 2010-055RC was procured through request for offer. It was selected to provide for med merit load requirements in preparation for commercial operation of WESM in the Visayas. Historically, the utilization of the PSA is 99.51%. Outages of the plant led to unserved energy of around 326 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 6.6352 P/kWh to 6.9499 P/kWh in the same period.

The PSA with Panay Energy Development Corporation (PEDC) Unit 3 filed under ERC under Case No. 2015-154RC was procured through CSP. It was selected to provide for additional baseload requirements due to ILECO II's increasing demand. Historically, the utilization of the PSA is 99.26%. Outages of the plant led to unserved energy of around 195 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 3.8354 P/kWh to 4.1940 P/kWh in the same period.

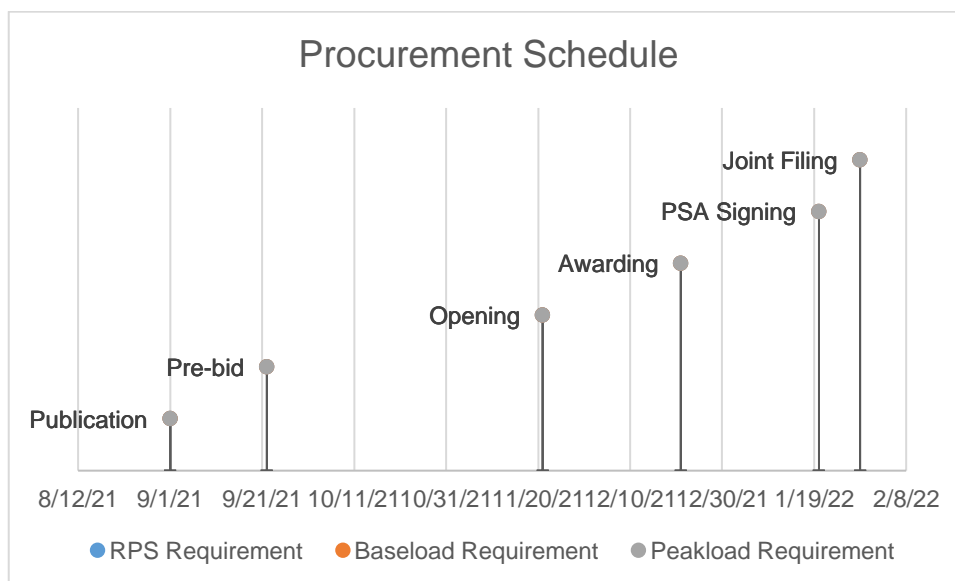
The PSA with GNPowder Mariveles Coal Plant Ltd. filed under ERC under Case No. 2018-119RC was procured through CSP last 2017 and the ERC grant an interim relief to implement the PPSA for a period of one (1) year or until the issuance of final authority whichever comes earlier subject to modifications and conditions. We implemented the PPSA last January 26, 2021.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
SIPC-DIESEL-POWERED	Peaking	SPC Island Power Corporation	4.00	5,110	8/26/2018	8/25/2023
PSALM	Intermediate	Power Sector Assets and Liabilities Management Corporation	6.00	26,280	12/26/2020	12/25/2022

The PSA with SPC Island Power Corporation (SIPC) is on process of joint filing of the application with the Energy Regulatory Commission (ERC). This was procured through Competitive Selection Process (CSP) last 2017 however, there were delayed in the filing of the application. The original date of Power Sales Contract (PSC) delivery was scheduled on August 26, 2018 to August 25, 2023 for 5 years. Upon issuance of provisional authority from ERC, we will update from the start of the delivery until the end of contract. Meanwhile, we included SIPC in our forecasted from 2021 to August 2023 to provide for peak requirements due to ILECO II's increasing demand.

The CSEE with Power Sector Assets and Liabilities Management (PSALM) was approved and the Department of Energy (DOE) approved ILECO II's request for Certificate of Exemption for renewal of contract however, we are on process of CSEE signing to start the draw of power from PSALM of 6 MW as additional power supply for mid-merit load.

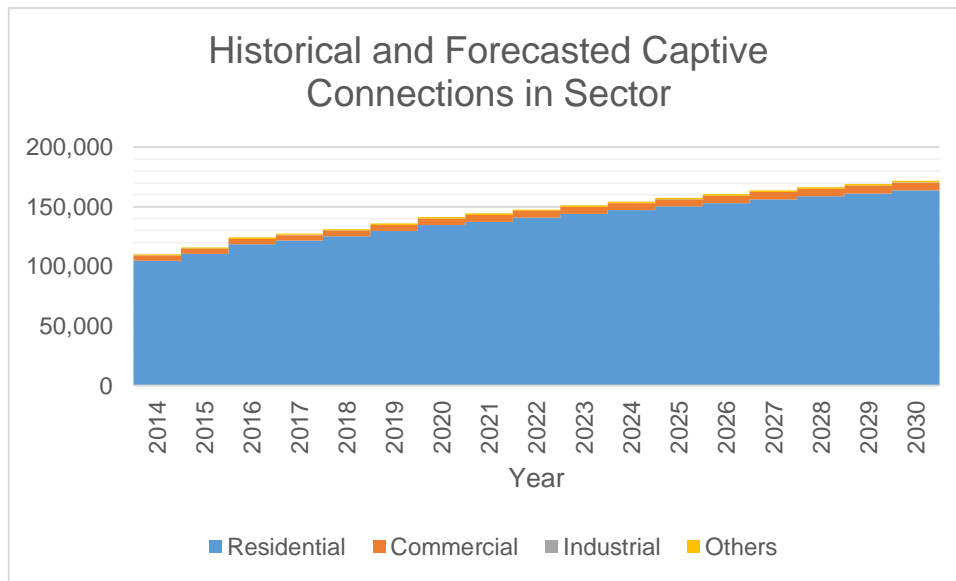
	RPS Requirement	Baseload Requirement	Peakload Requirement
Type	Base	Base	Peaking
Minimum MW	2.00	6.00	4.00
Minimum MWh/yr	17,520	52,560	5,957
PSA Start	12/26/2022	12/26/2021	12/26/2025
PSA End	12/25/2032	12/25/2032	12/25/2032
Publication	9/1/2021	9/1/2021	9/1/2021
Pre-bid	9/22/2021	9/22/2021	9/22/2021
Opening	11/21/2021	11/21/2021	11/21/2021
Awarding	12/21/2021	12/21/2021	12/21/2021
PSA Signing	1/20/2022	1/20/2022	1/20/2022
Joint Filing	1/29/2022	1/29/2022	1/29/2022



For the procurement of 2021 – 2022, we will apply for the renewal of Contract for the Supply of Electric Energy (CSEE) to PSALM on their available capacity and we will request for the issuance of Certificate of Exemption from CSP from the Department of Energy (DOE).

For the procurement of 2MW RPS requirement, 6MW baseload and 4MW peakload requirement which is planned to be available on starting December 2022, December 2021 and December 2025 respectively will be included in the aggregated requirement for CSP of the Panay-Guimaras EC Power Consortium for the year 2021. The Joint TPBAC TWG is on finalization of the Terms of Reference (TOR) to be submitted in NEA and DOE for approval. Target of the first publication or launch of CSP will be on 3rd quarter of 2021. CSP will be conducted from 3rd to 1st quarter of the year 2022. Joint filing will follow after determination of the winning bidder/supplier not later than 150 days in accordance with DOE’s 2018 CSP Policy.

# Captive Customer Connections



The number of Residential connections is expected to grow at a rate of 1.97% annually. Said customer class is expected to account for 72% of the total consumption. Kindly take note that the submitted number of customer in PSCP 2021-2030 are the correct and final data.