



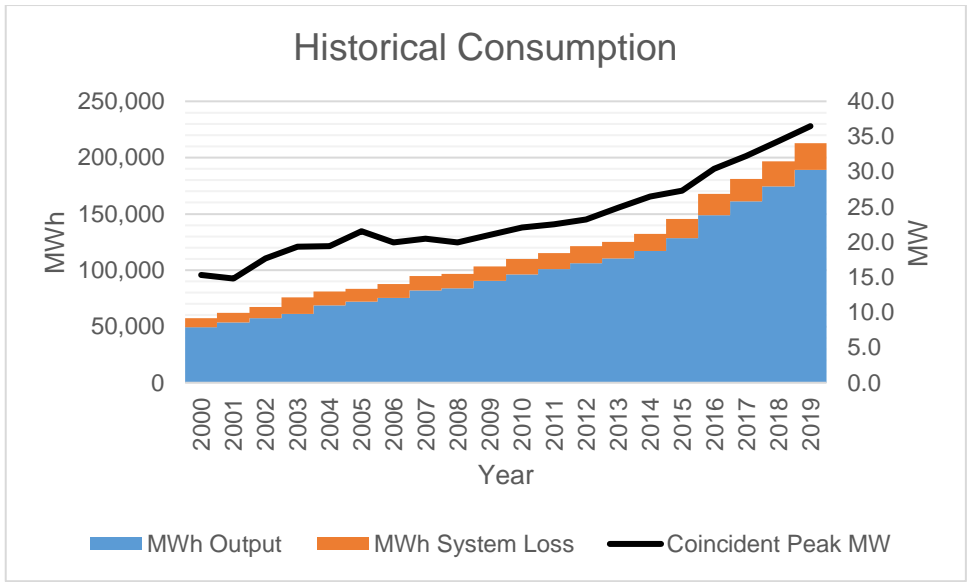
# **Power Supply Procurement Plan 2020**

**ILOILO II ELECTRIC COOPERATIVE, INC.**

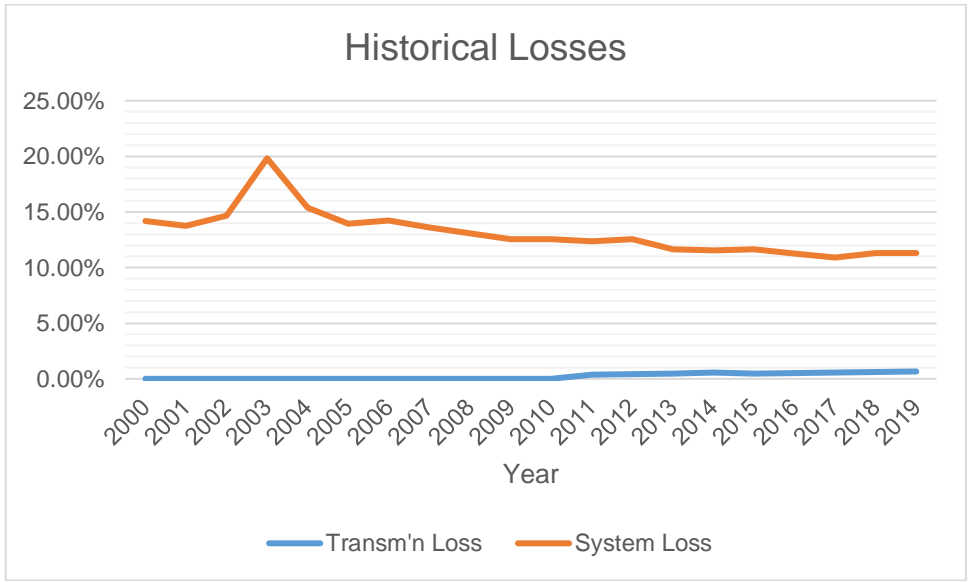
## Historical Consumption Data

	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%

ILECO II's demand and energy sales are increases. The Coincident Peak demand has recorded from 34.34 MW in year 2018 to 36.47 MW in the year 2019 at a rate of 6.21%. The Energy Offtake increased from 196,567 MWh in 2018 to 212,805 MWh in 2019 at a rate of 8.26%. 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).

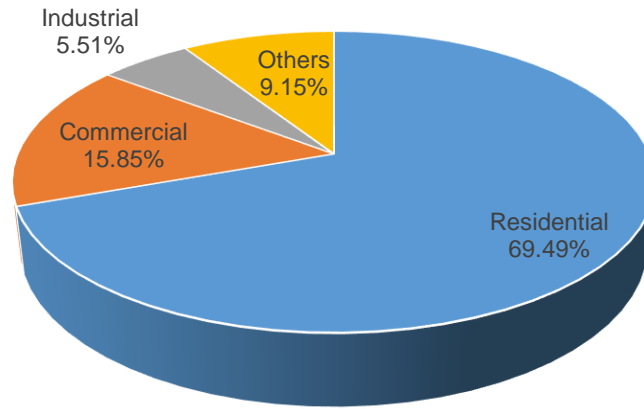


MWh Output increased from year 2018 to year 2019 at a rate of 8.35%, while MWh System Loss increased at a rate of 8.18% within the same period.



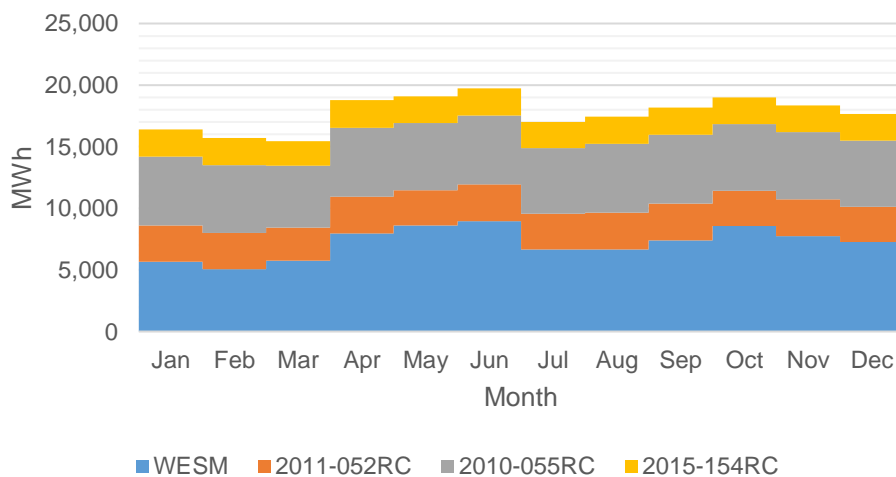
Historically, Transmission Loss ranged from 0.0% to 0.73% while System Loss ranged from 8.74% to 11.58% in the year 2019. Transmission Loss peaked at 0.73% and System Loss peaked at 11.58% on year 2019 due to summer season.

### Previous Year's Shares of Energy Sales

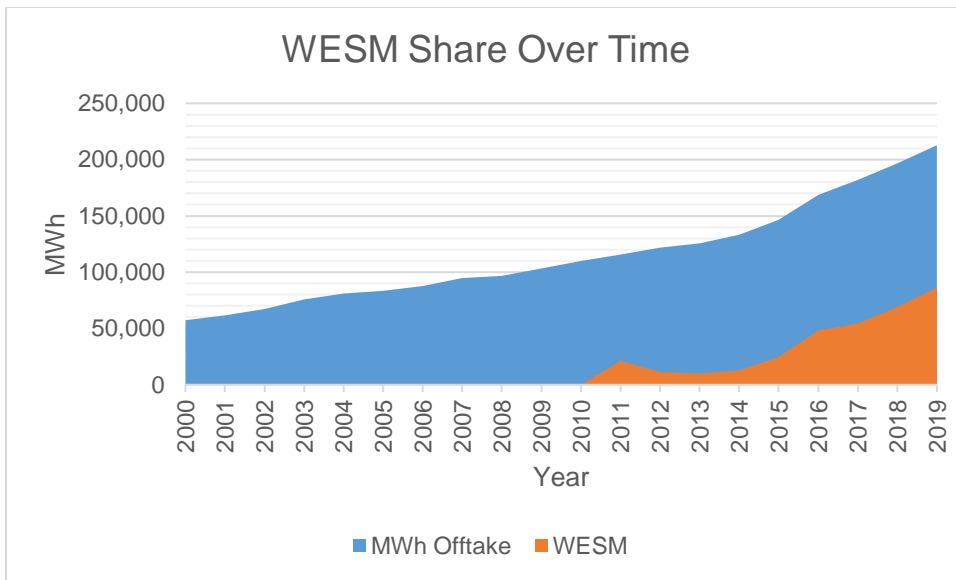


Residential customers account for the bulk of energy sales at 69.49% due to the high number of connections. In contrast, Industrial customers accounted for only 5.51% of energy sales due to the low number of connections.

### MWh Offtake for Last Historical Year

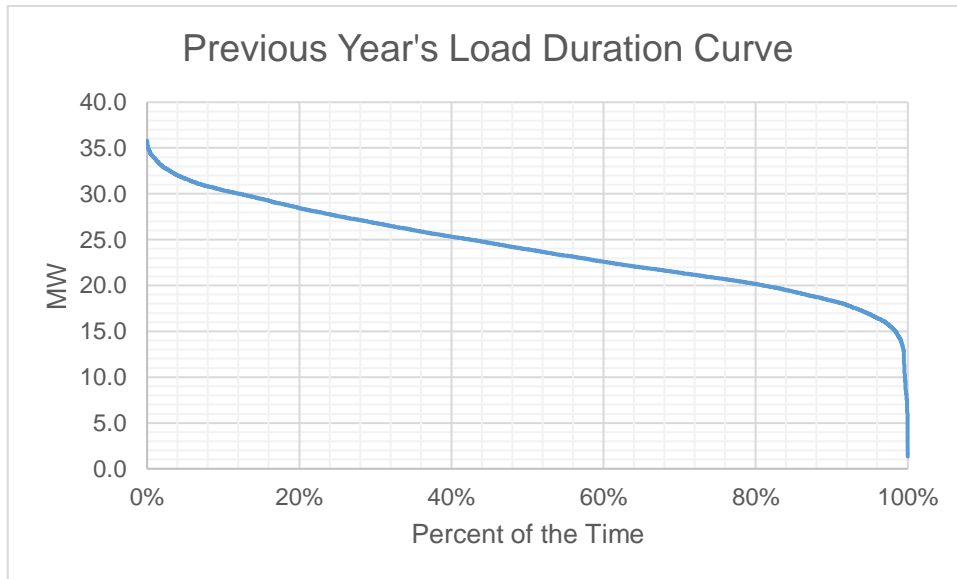


For all PSA's, the total Offtake for the last historical year is lower than the quantity stipulated in the PSA. The PSA with Panay Energy Development Corporation (PEDC) Unit 1&2 under Energy Regulatory Commission (ERC) Case No. 2010-055RC accounts for the bulk of MWh Offtake.

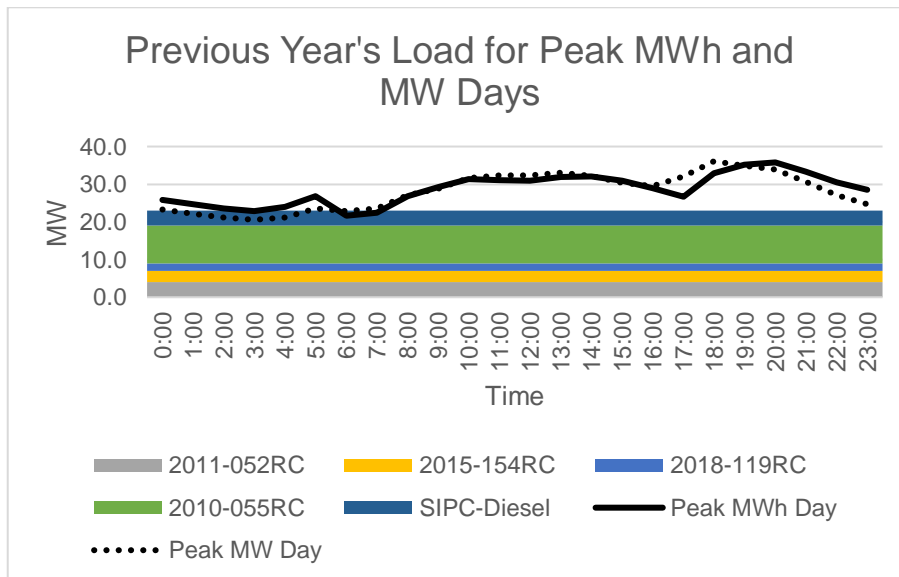


WESM Offtake increased from 68,995 MWh in 2018 to 86,292 MWh in 2019 at a rate of 25% due to increase in demand and energy sales of new customers. The share of WESM in the total Offtake ranged from 32% to 45%. The net WESM transaction is positive from 2.52 pesos per kWh to 7.89 pesos per kWh as the bulk MWh Offtake supply for the year 2019.

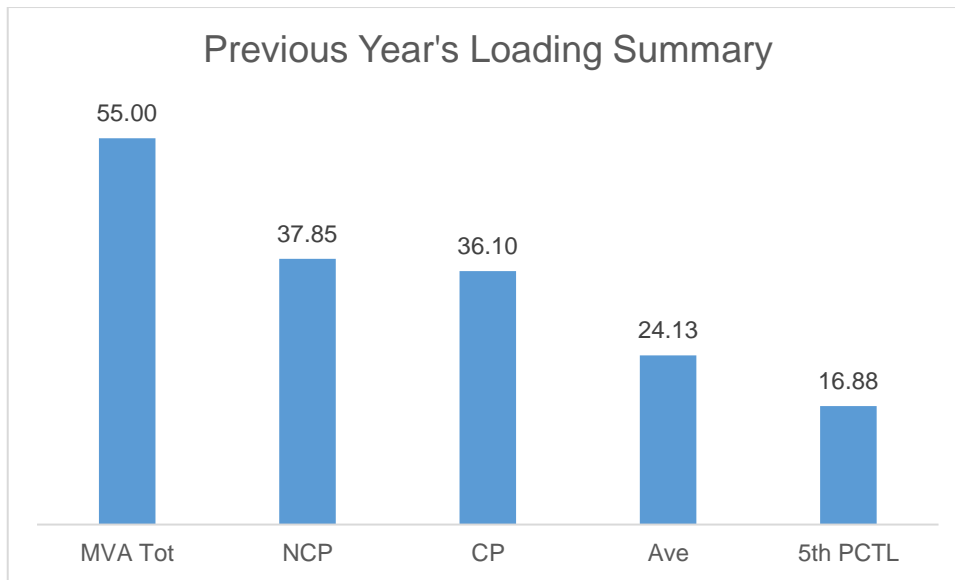
# Previous Year's Load Profile



Based on the Load Duration Curve, the minimum load is 14.79 MW and the maximum load is 36.47 MW for the last historical year. The mid merit load reached up to 33 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 37.85 MW, which is around 69% of the total substation capacity of 55 MVA at a power factor of 99.55%. The load factor or the ratio between the Average Load of 24.13 MW and the Non-coincident Peak Demand is 64%. A safe estimate of the true minimum load is the fifth percentile load of 16.88 MW which is 45% of the Non-coincident Peak Demand.

Metering Point	Substation MVA	Substation Peak MW
Pototan Substation	10	7.376
Dumangas Substation	15	11.312
Calinog Substation	10	6.919
Passi Substation	10	7.630
Janiuay Substation	10	4.614

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 11.312 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 (3) substations loaded at above 70% namely: Pototan Substation, Dumangas Substation 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
2020	Jan	36.55	17.00	6.00	6.000		47%	79%	-7.55
	Feb	33.37	17.00	6.00	6.000		51%	87%	-4.37
	Mar	34.16	17.00	6.00	6.000		50%	85%	-5.16
	Apr	36.15	17.00	6.00	6.000		47%	80%	-7.15
	May	37.29	17.00	6.00	6.000		46%	78%	-8.29
	Jun	38.18	17.00	6.00	6.000		45%	76%	-9.18
	Jul	36.03	17.00	6.00	6.000		47%	80%	-7.03
	Aug	35.11	17.00	6.00	6.000		48%	83%	-6.11
	Sep	37.24	17.00	6.00	6.000		46%	78%	-8.24
	Oct	38.25	17.00	6.00	6.000		44%	76%	-9.25
	Nov	37.66	17.00	6.00	6.000		45%	77%	-8.66
	Dec	37.14	17.00	6.00	6.000		46%	78%	-8.14
2021	Jan	38.35	17.00	6.00	6.000		44%	76%	-9.35
	Feb	35.01	17.00	6.00	6.000		49%	83%	-6.01
	Mar	35.84	17.00	6.00	6.000		47%	81%	-6.84
	Apr	37.93	17.00	6.00	6.000		45%	76%	-8.93
	May	39.12	17.00	6.00	6.000		43%	74%	-10.12
	Jun	40.05	17.00	6.00	6.000		42%	72%	-11.05
	Jul	37.81	17.00	6.00	6.000		45%	77%	-8.81
	Aug	36.83	17.00	6.00	6.000		46%	79%	-7.83
	Sep	39.07	17.00	6.00	6.000		44%	74%	-10.07
	Oct	40.13	17.00	6.00	6.000		42%	72%	-11.13
	Nov	39.51	17.00	6.00	6.000		43%	73%	-10.51
	Dec	38.97	17.00	6.00	6.000		44%	74%	-9.97
2022	Jan	40.05	17.00	6.00	12.000		42%	87%	-5.05
	Feb	36.57	17.00	6.00	12.000		46%	96%	-1.57
	Mar	37.43	17.00	6.00	12.000		45%	94%	-2.43
	Apr	39.62	17.00	6.00	12.000		43%	88%	-4.62
	May	40.86	17.00	6.00	12.000		42%	86%	-5.86

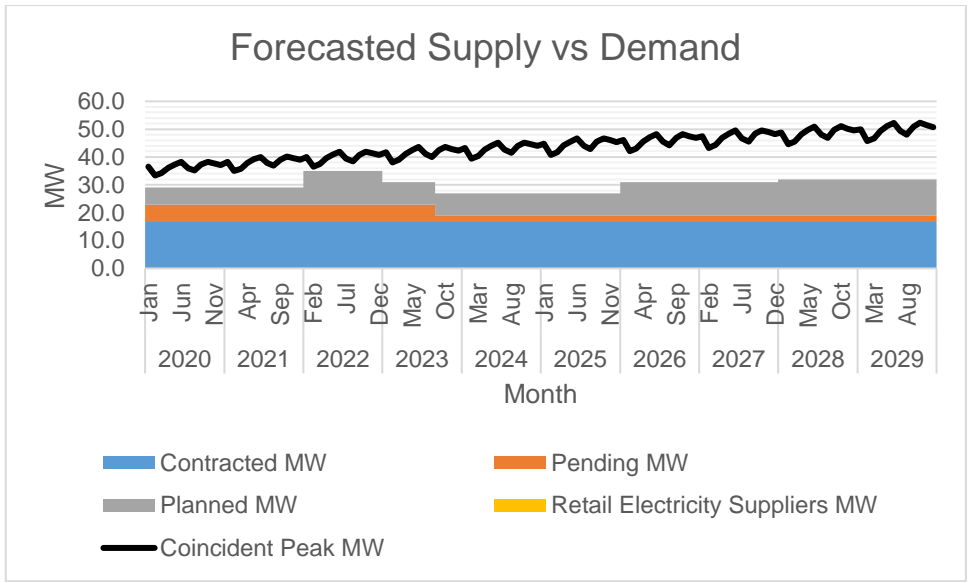


	Jun	41.83	17.00	6.00	12.000		41%	84%	-6.83
	Jul	39.49	17.00	6.00	12.000		43%	89%	-4.49
	Aug	38.47	17.00	6.00	12.000		44%	91%	-3.47
	Sep	40.81	17.00	6.00	12.000		42%	86%	-5.81
	Oct	41.91	17.00	6.00	12.000		41%	84%	-6.91
	Nov	41.27	17.00	6.00	12.000		41%	85%	-6.27
	Dec	40.70	17.00	6.00	12.000		42%	86%	-5.70
2023	Jan	41.67	17.00	6.00	8.000		41%	74%	-10.67
	Feb	38.05	17.00	6.00	8.000		45%	81%	-7.05
	Mar	38.94	17.00	6.00	8.000		44%	80%	-7.94
	Apr	41.22	17.00	6.00	8.000		41%	75%	-10.22
	May	42.51	17.00	6.00	8.000		40%	73%	-11.51
	Jun	43.53	17.00	6.00	8.000		39%	71%	-12.53
	Jul	41.08	17.00	6.00	8.000		41%	75%	-10.08
	Aug	40.03	17.00	6.00	8.000		42%	77%	-9.03
	Sep	42.46	17.00	2.00	8.000		40%	64%	-15.46
	Oct	43.61	17.00	2.00	8.000		39%	62%	-16.61
	Nov	42.94	17.00	2.00	8.000		40%	63%	-15.94
	Dec	42.35	17.00	2.00	8.000		40%	64%	-15.35
2024	Jan	43.21	17.00	2.00	8.000		39%	62%	-16.21
	Feb	39.46	17.00	2.00	8.000		43%	68%	-12.46
	Mar	40.39	17.00	2.00	8.000		42%	67%	-13.39
	Apr	42.74	17.00	2.00	8.000		40%	63%	-15.74
	May	44.09	17.00	2.00	8.000		39%	61%	-17.09
	Jun	45.14	17.00	2.00	8.000		38%	60%	-18.14
	Jul	42.61	17.00	2.00	8.000		40%	63%	-15.61
	Aug	41.51	17.00	2.00	8.000		41%	65%	-14.51
	Sep	44.03	17.00	2.00	8.000		39%	61%	-17.03
	Oct	45.22	17.00	2.00	8.000		38%	60%	-18.22
	Nov	44.53	17.00	2.00	8.000		38%	61%	-17.53
	Dec	43.92	17.00	2.00	8.000		39%	61%	-16.92
2025	Jan	44.69	17.00	2.00	8.000		38%	60%	-17.69
	Feb	40.80	17.00	2.00	8.000		42%	66%	-13.80
	Mar	41.76	17.00	2.00	8.000		41%	65%	-14.76

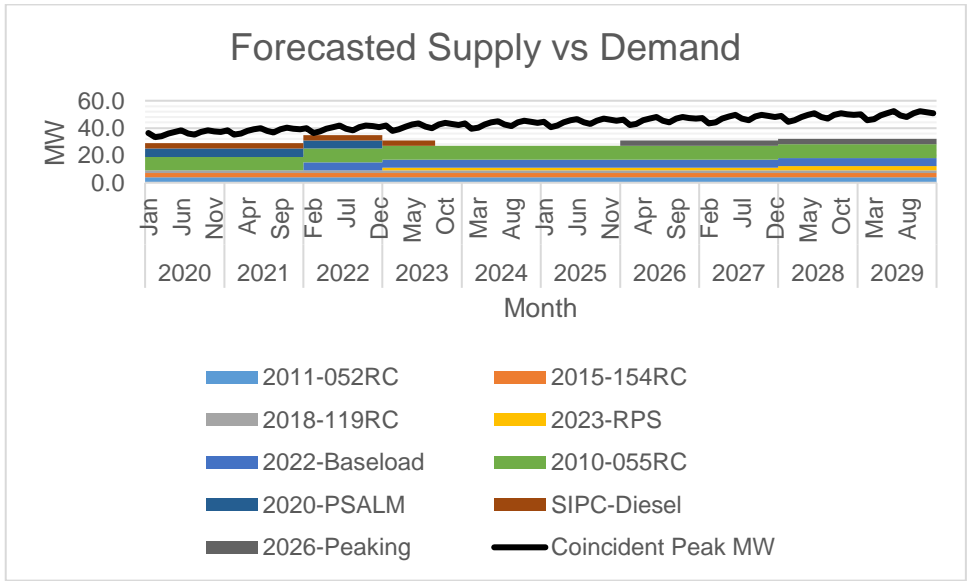
	Apr	44.20	17.00	2.00	8.000		38%	61%	-17.20
	May	45.59	17.00	2.00	8.000		37%	59%	-18.59
	Jun	46.68	17.00	2.00	8.000		36%	58%	-19.68
	Jul	44.06	17.00	2.00	8.000		39%	61%	-17.06
	Aug	42.93	17.00	2.00	8.000		40%	63%	-15.93
	Sep	45.54	17.00	2.00	8.000		37%	59%	-18.54
	Oct	46.76	17.00	2.00	8.000		36%	58%	-19.76
	Nov	46.05	17.00	2.00	8.000		37%	59%	-19.05
	Dec	45.41	17.00	2.00	8.000		37%	59%	-18.41
2026	Jan	46.09	17.00	2.00	12.000		37%	67%	-15.09
	Feb	42.09	17.00	2.00	12.000		40%	74%	-11.09
	Mar	43.08	17.00	2.00	12.000		39%	72%	-12.08
	Apr	45.59	17.00	2.00	12.000		37%	68%	-14.59
	May	47.03	17.00	2.00	12.000		36%	66%	-16.03
	Jun	48.15	17.00	2.00	12.000		35%	64%	-17.15
	Jul	45.45	17.00	2.00	12.000		37%	68%	-14.45
	Aug	44.28	17.00	2.00	12.000		38%	70%	-13.28
	Sep	46.97	17.00	2.00	12.000		36%	66%	-15.97
	Oct	48.24	17.00	2.00	12.000		35%	64%	-17.24
	Nov	47.50	17.00	2.00	12.000		36%	65%	-16.50
	Dec	46.85	17.00	2.00	12.000		36%	66%	-15.85
2027	Jan	47.44	17.00	2.00	12.000		36%	65%	-16.44
	Feb	43.32	17.00	2.00	12.000		39%	72%	-12.32
	Mar	44.34	17.00	2.00	12.000		38%	70%	-13.34
	Apr	46.93	17.00	2.00	12.000		36%	66%	-15.93
	May	48.40	17.00	2.00	12.000		35%	64%	-17.40
	Jun	49.56	17.00	2.00	12.000		34%	63%	-18.56
	Jul	46.78	17.00	2.00	12.000		36%	66%	-15.78
	Aug	45.58	17.00	2.00	12.000		37%	68%	-14.58
	Sep	48.35	17.00	2.00	12.000		35%	64%	-17.35
	Oct	49.65	17.00	2.00	12.000		34%	62%	-18.65
	Nov	48.89	17.00	2.00	12.000		35%	63%	-17.89
	Dec	48.22	17.00	2.00	12.000		35%	64%	-17.22
2028	Jan	48.74	17.00	2.00	13.000		35%	66%	-16.74

	Feb	44.50	17.00	2.00	13.000		38%	72%	-12.50
	Mar	45.55	17.00	2.00	13.000		37%	70%	-13.55
	Apr	48.21	17.00	2.00	13.000		35%	66%	-16.21
	May	49.72	17.00	2.00	13.000		34%	64%	-17.72
	Jun	50.91	17.00	2.00	13.000		33%	63%	-18.91
	Jul	48.05	17.00	2.00	13.000		35%	67%	-16.05
	Aug	46.82	17.00	2.00	13.000		36%	68%	-14.82
	Sep	49.67	17.00	2.00	13.000		34%	64%	-17.67
	Oct	51.01	17.00	2.00	13.000		33%	63%	-19.01
	Nov	50.23	17.00	2.00	13.000		34%	64%	-18.23
	Dec	49.54	17.00	2.00	13.000		34%	65%	-17.54
2029	Jan	49.99	17.00	2.00	13.000		34%	64%	-17.99
	Feb	45.64	17.00	2.00	13.000		37%	70%	-13.64
	Mar	46.72	17.00	2.00	13.000		36%	68%	-14.72
	Apr	49.44	17.00	2.00	13.000		34%	65%	-17.44
	May	51.00	17.00	2.00	13.000		33%	63%	-19.00
	Jun	52.21	17.00	2.00	13.000		33%	61%	-20.21
	Jul	49.28	17.00	2.00	13.000		34%	65%	-17.28
	Aug	48.02	17.00	2.00	13.000		35%	67%	-16.02
	Sep	50.94	17.00	2.00	13.000		33%	63%	-18.94
	Oct	52.31	17.00	2.00	13.000		32%	61%	-20.31
	Nov	51.51	17.00	2.00	13.000		33%	62%	-19.51
	Dec	50.80	17.00	2.00	13.000		33%	63%	-18.80

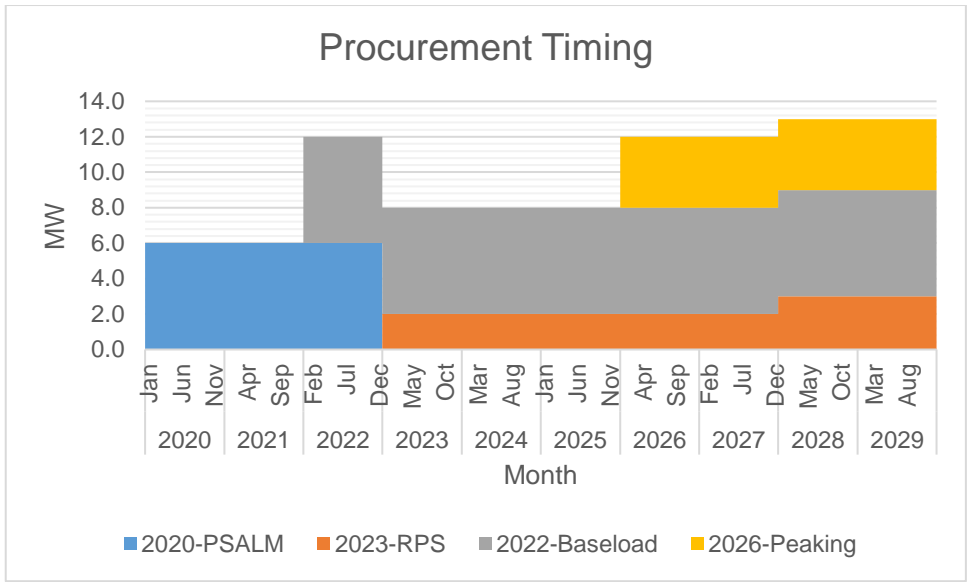
The Peak Demand was forecasted using regression. The average growth rate of the historical coincident peak is 6% for seven (7) years. Using this data for forecasting, we came up the model with  $(a + b \log t^2 + c t^{-2} + d t^{-3})$  for coincident peak with adjusted R square of 0.99710723 and MAPE of 0.39%. With this, we have identified our power supply requirement for Competitive Selection Process (CSP). In addition, peak assumed to occur on the month of October due to whether condition. Monthly Peak Demand is at its lowest on the month of February due to rainy season. In general, Peak Demand is expected to grow at a rate of 3.68% annually.



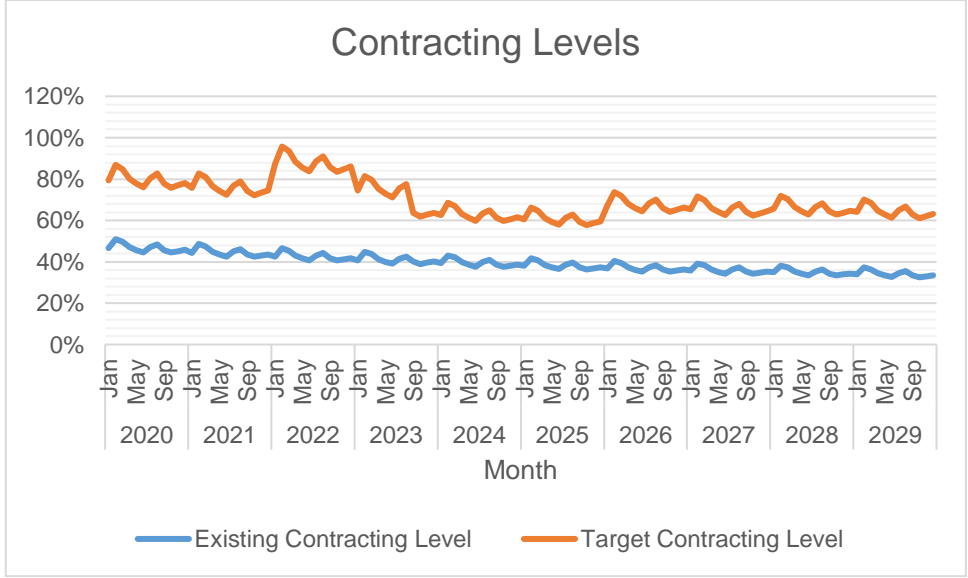
The available supply is generally below the Peak Demand. This is because the Peak demand is high and we are under contract. The difference in the supply shall be taken from WESM.



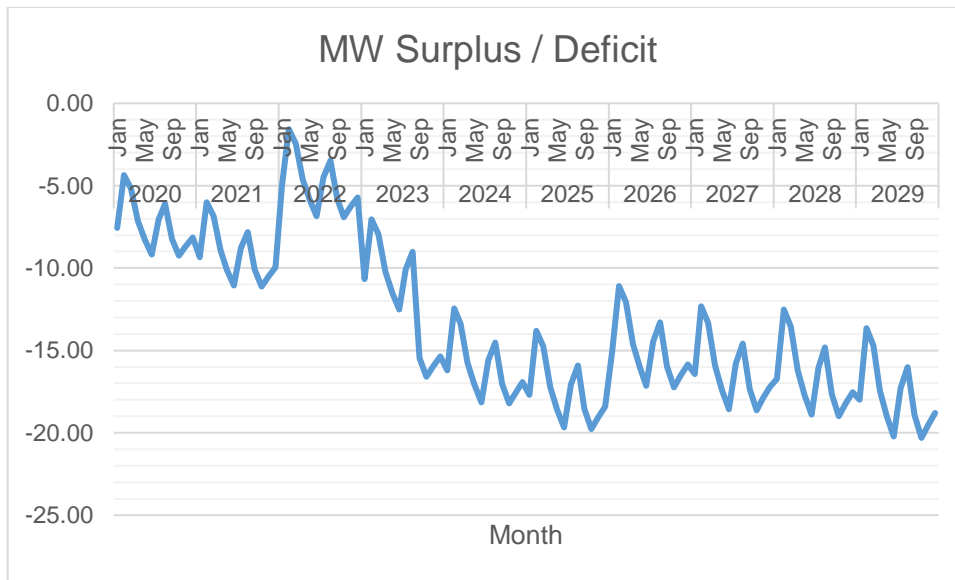
Of the available supply, the largest is 10 MW from Panay Energy Development Corporation (PEDC) Unit 1&2 under ERC Case No. 2010-055RC. This is followed by 10 MW from Power Sector Assets and Liabilities Management (PSALM).



The first wave of supply procurement will be for 6 MW, 2 MW and 4MW planned to be available by the month of December 2021, December 2022 and December 2025 respectively. At the same time, the 6 MW to be available by the month of December 2021 shall be negotiated to Power Sector Assets and Liabilities Management Corp. (PSALM) on their available capacity.



Currently, there is under-contracting by 37%. The highest target contracting level is 94% which is expected to occur on March 2022. The lowest target contracting level is 58% which is expected to occur on June 2025.



Currently, there is under-contracting by 19.47 MW. The highest deficit is 19.76 MW which is expected to occur on the month of October 2025. The lowest deficit is 1.57 MW which is expected to occur on the month of February 2022.

		MWh Offtake	MWh Output	MWh System Loss	Transm'n Loss	System Loss
2020	Jan	17,646	15,890	1,757	0.00%	9.95%
	Feb	16,898	15,042	1,856	0.00%	10.98%
	Mar	16,581	14,693	1,887	0.00%	11.38%
	Apr	20,169	17,702	2,467	0.00%	12.23%
	May	20,498	18,013	2,486	0.00%	12.13%
	Jun	21,215	18,556	2,659	0.00%	12.53%
	Jul	18,292	16,447	1,844	0.00%	10.08%
	Aug	18,750	16,710	2,040	0.00%	10.88%
	Sep	19,520	17,426	2,095	0.00%	10.73%
	Oct	20,409	18,144	2,265	0.00%	11.10%
	Nov	19,697	17,810	1,887	0.00%	9.58%
	Dec	18,981	17,072	1,909	0.00%	10.06%
2021	Jan	18,810	16,956	1,853	0.00%	9.85%
	Feb	18,012	16,052	1,960	0.00%	10.88%
	Mar	17,674	15,680	1,994	0.00%	11.28%
	Apr	21,499	18,891	2,609	0.00%	12.13%
	May	21,850	19,222	2,628	0.00%	12.03%
	Jun	22,614	19,802	2,812	0.00%	12.43%
	Jul	19,498	17,552	1,946	0.00%	9.98%
	Aug	19,987	17,832	2,155	0.00%	10.78%
	Sep	20,808	18,595	2,212	0.00%	10.63%
	Oct	21,755	19,362	2,392	0.00%	11.00%
	Nov	20,996	19,005	1,990	0.00%	9.48%
	Dec	20,232	18,218	2,014	0.00%	9.96%
2022	Jan	19,924	17,981	1,943	0.00%	9.75%
	Feb	19,079	17,022	2,057	0.00%	10.78%
	Mar	18,721	16,627	2,094	0.00%	11.19%
	Apr	22,773	20,032	2,741	0.00%	12.04%
	May	23,144	20,383	2,761	0.00%	11.93%

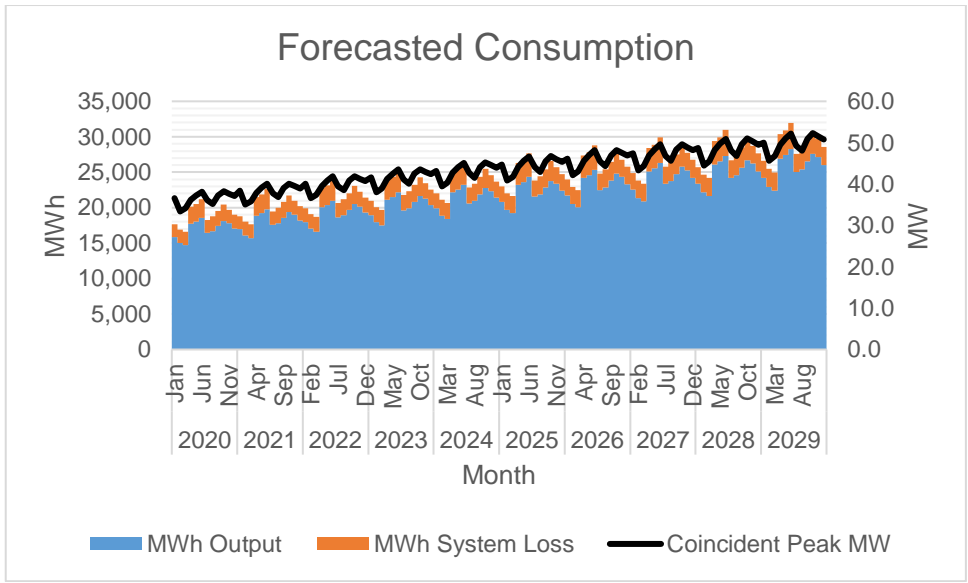
	Jun	23,953	20,999	2,955	0.00%	12.34%
	Jul	20,653	18,612	2,041	0.00%	9.88%
	Aug	21,170	18,909	2,261	0.00%	10.68%
	Sep	22,040	19,719	2,321	0.00%	10.53%
	Oct	23,043	20,532	2,511	0.00%	10.90%
	Nov	22,239	20,154	2,086	0.00%	9.38%
	Dec	21,431	19,319	2,112	0.00%	9.85%
2023	Jan	20,991	18,965	2,026	0.00%	9.65%
	Feb	20,101	17,954	2,147	0.00%	10.68%
	Mar	19,724	17,537	2,187	0.00%	11.09%
	Apr	23,993	21,129	2,864	0.00%	11.94%
	May	24,384	21,499	2,885	0.00%	11.83%
	Jun	25,237	22,148	3,088	0.00%	12.24%
	Jul	21,759	19,631	2,128	0.00%	9.78%
	Aug	22,305	19,945	2,360	0.00%	10.58%
	Sep	23,221	20,799	2,422	0.00%	10.43%
	Oct	24,278	21,657	2,621	0.00%	10.80%
	Nov	23,431	21,257	2,174	0.00%	9.28%
	Dec	22,579	20,377	2,202	0.00%	9.75%
2024	Jan	22,015	19,913	2,102	0.00%	9.55%
	Feb	21,081	18,850	2,231	0.00%	10.58%
	Mar	20,686	18,413	2,273	0.00%	10.99%
	Apr	25,163	22,184	2,979	0.00%	11.84%
	May	25,574	22,573	3,001	0.00%	11.73%
	Jun	26,468	23,255	3,213	0.00%	12.14%
	Jul	22,821	20,612	2,209	0.00%	9.68%
	Aug	23,393	20,941	2,451	0.00%	10.48%
	Sep	24,354	21,837	2,516	0.00%	10.33%
	Oct	25,462	22,739	2,724	0.00%	10.70%
	Nov	24,574	22,319	2,255	0.00%	9.17%
	Dec	23,680	21,396	2,285	0.00%	9.65%
2025	Jan	22,999	20,826	2,173	0.00%	9.45%
	Feb	22,023	19,715	2,309	0.00%	10.48%
	Mar	21,610	19,257	2,353	0.00%	10.89%
	Apr	26,288	23,201	3,086	0.00%	11.74%
	May	26,716	23,608	3,108	0.00%	11.63%
	Jun	27,651	24,321	3,330	0.00%	12.04%
	Jul	23,841	21,557	2,284	0.00%	9.58%
	Aug	24,438	21,902	2,536	0.00%	10.38%
	Sep	25,442	22,839	2,603	0.00%	10.23%
	Oct	26,600	23,781	2,819	0.00%	10.60%
	Nov	25,672	23,343	2,329	0.00%	9.07%
	Dec	24,739	22,377	2,362	0.00%	9.55%
2026	Jan	23,946	21,707	2,238	0.00%	9.35%
	Feb	22,930	20,549	2,381	0.00%	10.38%
	Mar	22,500	20,072	2,428	0.00%	10.79%
	Apr	27,369	24,183	3,187	0.00%	11.64%
	May	27,816	24,607	3,209	0.00%	11.54%
	Jun	28,789	25,350	3,438	0.00%	11.94%
	Jul	24,822	22,469	2,353	0.00%	9.48%
	Aug	25,444	22,828	2,615	0.00%	10.28%

	Sep	26,489	23,805	2,684	0.00%	10.13%
	Oct	27,695	24,788	2,907	0.00%	10.50%
	Nov	26,728	24,331	2,398	0.00%	8.97%
	Dec	25,757	23,324	2,433	0.00%	9.45%
2027	Jan	24,858	22,559	2,298	0.00%	9.25%
	Feb	23,803	21,355	2,448	0.00%	10.28%
	Mar	23,357	20,860	2,497	0.00%	10.69%
	Apr	28,412	25,132	3,280	0.00%	11.54%
	May	28,875	25,573	3,303	0.00%	11.44%
	Jun	29,885	26,345	3,540	0.00%	11.84%
	Jul	25,767	23,351	2,417	0.00%	9.38%
	Aug	26,413	23,724	2,688	0.00%	10.18%
	Sep	27,498	24,739	2,758	0.00%	10.03%
	Oct	28,749	25,761	2,989	0.00%	10.40%
	Nov	27,746	25,286	2,461	0.00%	8.87%
	Dec	26,738	24,240	2,498	0.00%	9.34%
2028	Jan	25,738	23,384	2,354	0.00%	9.14%
	Feb	24,646	22,136	2,510	0.00%	10.18%
	Mar	24,184	21,622	2,561	0.00%	10.59%
	Apr	29,418	26,050	3,367	0.00%	11.45%
	May	29,898	26,507	3,390	0.00%	11.34%
	Jun	30,943	27,308	3,635	0.00%	11.75%
	Jul	26,679	24,204	2,475	0.00%	9.28%
	Aug	27,348	24,592	2,756	0.00%	10.08%
	Sep	28,471	25,644	2,828	0.00%	9.93%
	Oct	29,767	26,702	3,065	0.00%	10.30%
	Nov	28,729	26,210	2,519	0.00%	8.77%
	Dec	27,684	25,126	2,559	0.00%	9.24%
2029	Jan	26,588	24,184	2,404	0.00%	9.04%
	Feb	25,460	22,893	2,567	0.00%	10.08%
	Mar	24,983	22,362	2,621	0.00%	10.49%
	Apr	30,390	26,941	3,449	0.00%	11.35%
	May	30,885	27,414	3,472	0.00%	11.24%
	Jun	31,965	28,242	3,723	0.00%	11.65%
	Jul	27,561	25,032	2,529	0.00%	9.18%
	Aug	28,252	25,433	2,819	0.00%	9.98%
	Sep	29,412	26,520	2,892	0.00%	9.83%
	Oct	30,751	27,616	3,135	0.00%	10.20%
	Nov	29,678	27,106	2,572	0.00%	8.67%
	Dec	28,599	25,985	2,614	0.00%	9.14%

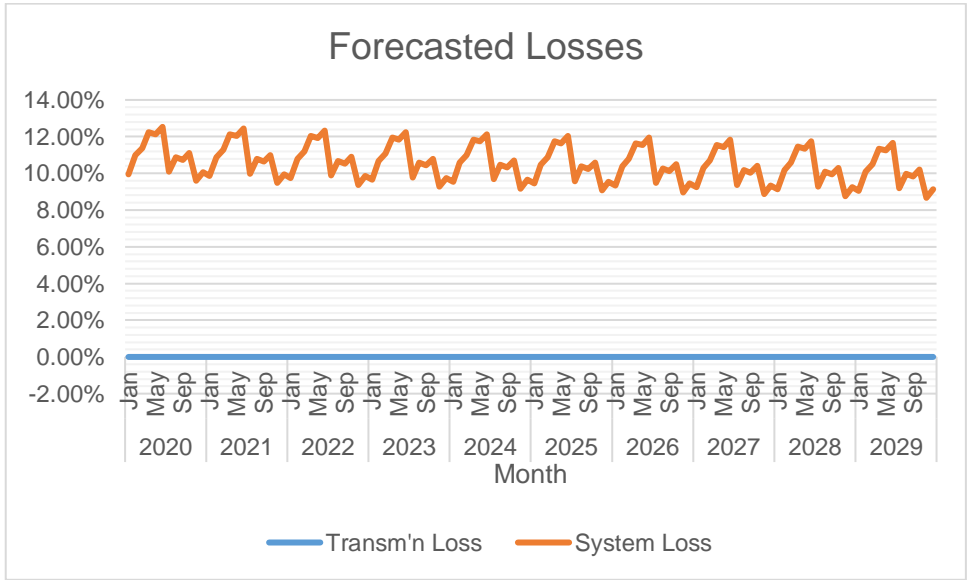
MWh Offtake was forecasted using regression. Using the forecasting model ( $a + b \log t + c \log t^2 + dt^3$ ) we come up with adjusted R square of 0.99986892 and MAPE of 0.10%. The assumed load factor is 68%.

System Loss was calculated through a Load Flow Study conducted on January 2020 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 4.79% annually.



The Transmission Loss is expected to range from 0% while System Loss is expected to range from 8.67% to 12.53%.

## 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

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 99.89%. Outages of the plant led to unserved energy of around 38 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 5.4912 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 99.60%. Outages of the plant led to unserved energy of around 261 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 6.7223 P/kWh to 7.8698 P/kWh in the same period.

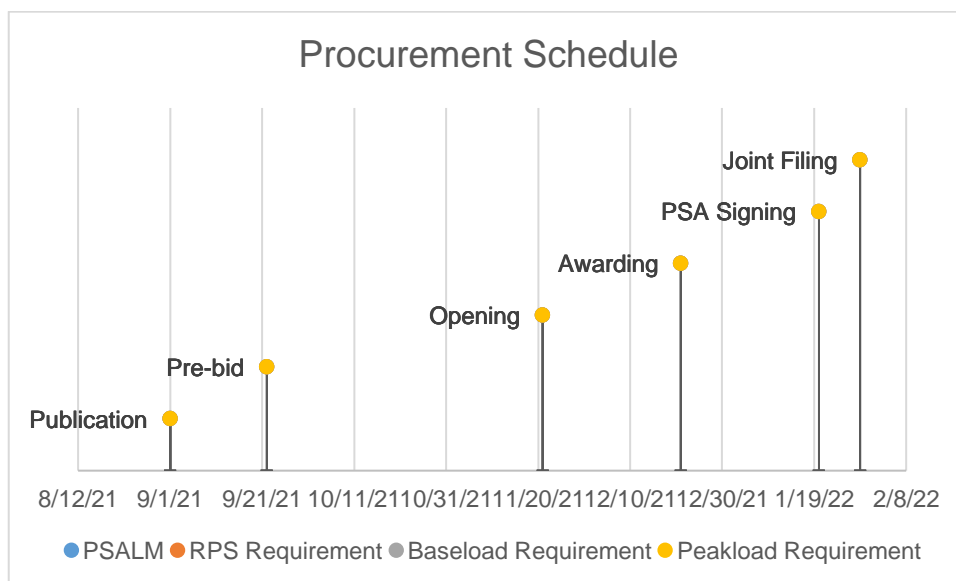
The PSA with Panay Energy Development Corporation (PEDC) Unit 3 filed under ERC under Case No. 2015-154RC was procured through Swiss Challenge. It was selected to provide for additional baseload requirements due to ILECO II's increasing demand. Historically, the utilization of the PSA is 99.21%. Outages of the plant led to unserved energy of around 208 MWh in the past year. The actual billed overall monthly charge under the PSA ranged from 3.9667 P/kWh to 5.3709 P/kWh in the same period.

Case No.	Type	GenCo	Minimum MW	Minimum MWh/yr	PSA Start	PSA End
2018-119RC	Base	GN Power Mariveles Coal Plant Ltd.	2.00	17,520	12/26/2019	12/25/2029
SIPC-Diesel	Peaking	SPC Island Power Corporation	4.00	5,110	8/26/2018	8/25/2023

The PSA with GNPower Mariveles Coal Plant Ltd. filed under ERC under Case No. 2018-119RC was procured through Competitive Selection Process (CSP). It was selected to provide for additional base requirements due to ILECO II's increasing demand.

The PSA with SPC Island Power Corporation (SIPC) is on process of securing necessary documents in preparation for the joint filing of the application to the Energy Regulatory Commission (ERC). This was procured through Competitive Selection Process (CSP). It was selected to provide for peak requirements due to ILECO II's increasing demand.

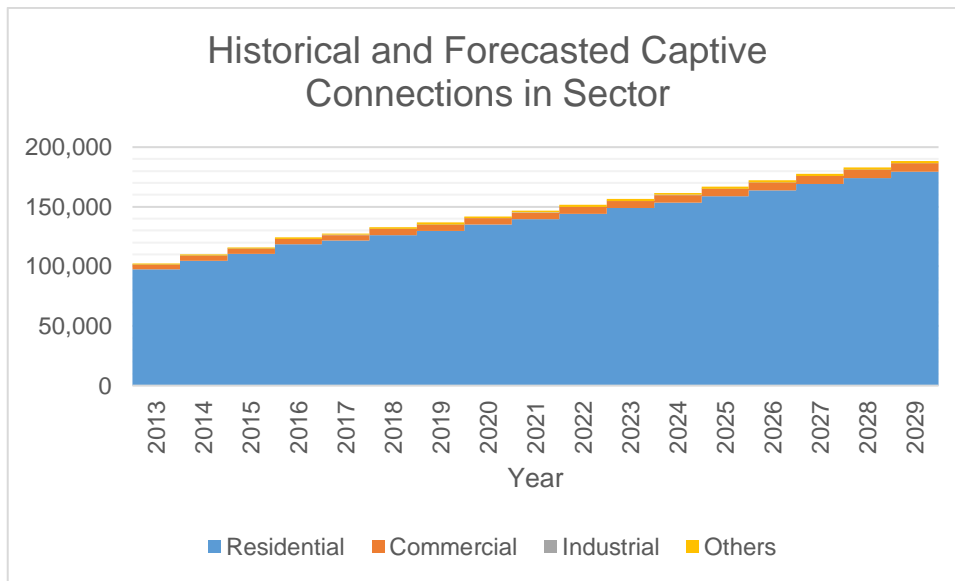
	PSALM	RPS Requirement	Baseload Requirement	Peakload Requirement
Type	Intermediate	Base	Base	Peaking
Minimum MW	6.00	2.00	6.00	4.00
Minimum MWh/yr	26,280	17,520	52,560	5,957
PSA Start	12/26/2019	12/26/2022	12/26/2021	12/26/2025
PSA End	12/25/2022	12/25/2032	12/25/2032	12/25/2032
Publication	9/1/2021	9/1/2021	9/1/2021	9/1/2021
Pre-bid	9/22/2021	9/22/2021	9/22/2021	9/22/2021
Opening	11/21/2021	11/21/2021	11/21/2021	11/21/2021
Awarding	12/21/2021	12/21/2021	12/21/2021	12/21/2021
PSA Signing	1/20/2022	1/20/2022	1/20/2022	1/20/2022
Joint Filing	1/29/2022	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 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 3<sup>rd</sup> to 1<sup>st</sup> 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 3.21% annually. Said customer class is expected to account for 69.49% of the total consumption.