

POWER SUPPLY PROCUREMENT PLAN

**ZAMBOANGA DEL NORTE ELECTRIC COOPERATIVE, INC.**

**POWER SUPPLY PROCUREMENT PLAN**

In compliance with the Department of Energy's (DOE) Department Circular No. DC 2018-02-0003, "Adopting and Prescribing the Policy for the Competitive Selection Process in the Procurement by the Distribution Utilities of Power Supply Agreement for the Captive Market" or the Competitive Selection process (CSP) Policy, the Power Supply Procurement Plan (PSPP) Report is hereby created, pursuant to the Section 4 of the said Circular.

The PSPP refers to the DUs' plan for the acquisition of a variety of demand-side and supply-side resources to cost-effectively meet the electricity needs of its customers. The PSPP is an integral part of the Distribution Utilities' Distribution Development Plan (DDP) and must be submitted to the Department of Energy with supported Board Resolution and/or notarized Secretary's Certificate.

The Third-Party Bids and Awards Committee (TPBAC), Joint TPBAC or Third Party Auctioneer (TPA) shall submit to the DOE and in the case of Electric Cooperatives (ECs), through the National Electrification Administration (NEA) the following:

- a. Power Supply Procurement Plan;
- b. Distribution Impact Study/ Load Flow Analysis conducted that served as the basis of the Terms of Reference; and
- c. Due diligence report of the existing generation plant

All Distribution Utilities' shall follow and submit the attached report to the Department of Energy for posting on the DOE CSP Portal. For ECs such reports shall be submitted to DOE and NEA. The NEA shall review the submitted report within ten (10) working days upon receipt prior to its submission to DOE for posting at the DOE CSP Portal.

The content of the PSPP shall be consistent with the DDP. The tables and graph format to be use on the PSPP report is provided on the following sheets. Further, the PSPP shall contain the following sections:

- I. Table of Contents
- II. Introduction
- III. Energy and Demand Forecast (10 year historical and forecast)
- IV. Energy Sales and Purchase
- V. Daily Load Profile and Load Duration Curve
- VI. Existing Contracts & Existing GenCos due diligence report
- VII. Currently approved SAGR for Off-Grid ECs to be passed-on to consumers;
- VIII. DU's Current Supply and Demand
- IX. Distribution Impact Study
- X. Schedule of Power Supply Procurement
- XI. Timeline of the CSP

For inquiries, you may send it at [doe.csp@gmail.com](mailto:doe.csp@gmail.com) or you may contact us through telephone numbers (02) 840-2173 and (02) 479-2900 local 202.

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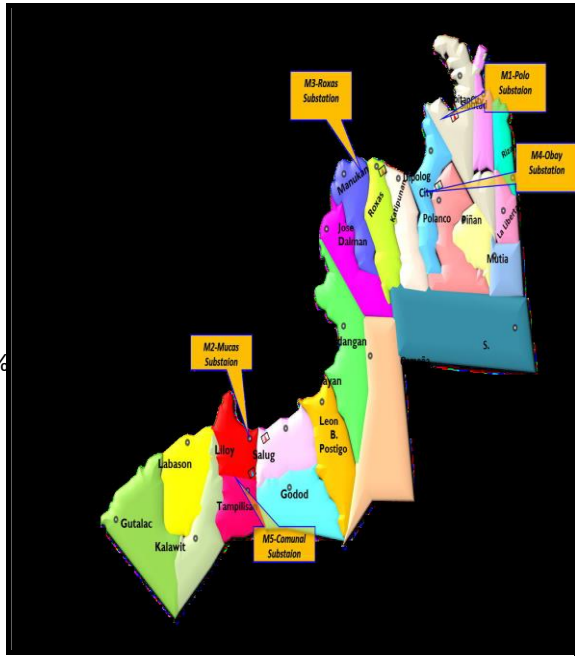
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# INTRODUCTION

## DISTRIBUTION UTILITIES PROFILE

ZANECO's Franchise MAP

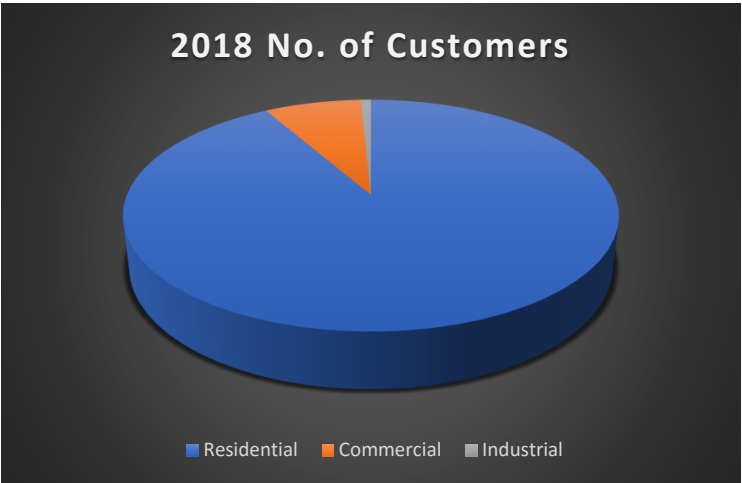
ZANECO was organized and registered with NEA on August 23, 1972 by virtue of P.D. 269. The franchise of ZANECO covers 2 cities and 21 municipalities, namely - Dapitan City, Dipolog City, Rizal, Sibutad, La Libertad, Polanco, Mutia, Piñan, Sergio Osmeña Sr., Katipunan, Roxas, Manukan, Jose Dalman, Sindangan, Siayan, Leon B. Postigo, Salug, Godod, Liloy, Labason, Gutalac, Tampilisan and Kalawit. Under NEA categorization for year 2017, ZANECO is categorized as an AAA electric cooperative. As of December 2018, it has a collection efficiency of 97.46% a system loss of 13.51% and has a positive margin.



Number of Customer Connections	ACTUAL	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Residential	113,947	117,062	121,942	126,823	131,703	136,583	141,463	146,343	151,223	156,103	160,983
Commercial	9,307	9,468	9,708	9,949	10,189	10,430	10,670	10,911	11,151	11,392	11,632
Industrial	988	1,044	1,098	1,152	1,206	1,260	1,314	1,368	1,422	1,476	1,530
Others											
Contestable Customers served by RES											
Total (Captive Custom	127,575	132,749	137,924	143,098	148,273	153,447	158,622	163,797	168,971	174,146	

The data and the graph represents the Grid area of ZANECO.

ZANECO has expected to increase its demand due to the commercialization of incoming big loads such as Sea Oil Depot and Petra Cement Plant which are both located in the Agro-Industrial Economic Zone of the Municipality of Roxas, Zamboanga del Norte. Since it is an economic zone, more big loads are expected to operate.



POWER SUPPLY PROCUREMENT PLAN

Number of Customer Connections	ACTUAL	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Residential		365	369	372	376	380	383	387	391	394	397
Commercial		13	13	13	13	13	13	13	13	13	13
Industrial		3	3	3	3	3	3	3	3	3	3
Others											
Contestable Customers served by RES											
Total (Captive Customers		381	385	388	392	396	399	403	407	410	413

The data and the graph represents the Off-grid area of ZANECO.

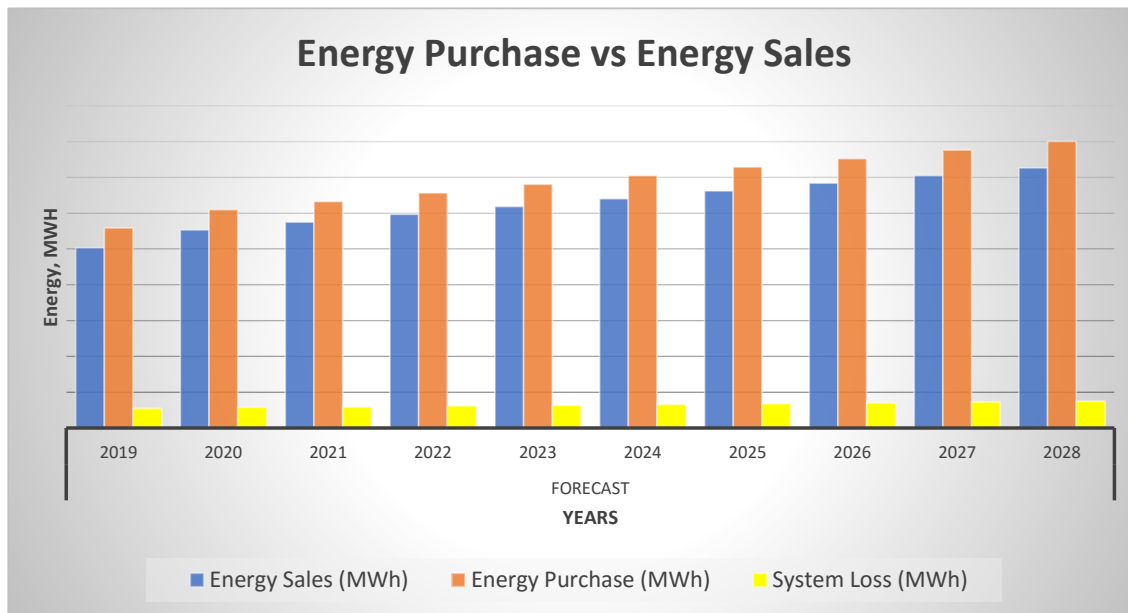
The islands of Aliguay and Selinog are within the franchise area of ZANECO. However, these two off-grid areas is not yet energized thus there is no available historical data. A resort is operating in the island but is supplied with power from its own generating set.



## ENERGY SALES AND PURCHASE (GRID)

ENERGY SALES AND PURCHASE	HISTORICAL									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Energy Sales (MWh)	121,441	127,767	141,919	150,531	156,220	158,540	172,498	188,107	190,150	210,028
Energy Purchase (MWh)	142,739	149,257	162,615	168,947	177,718	186,110	197,116	206,197	209,458	243,909
System Loss (MWh)	21,297	21,490	20,696	18,417	21,506	22,012	24,648	21,547	19,339	32,811

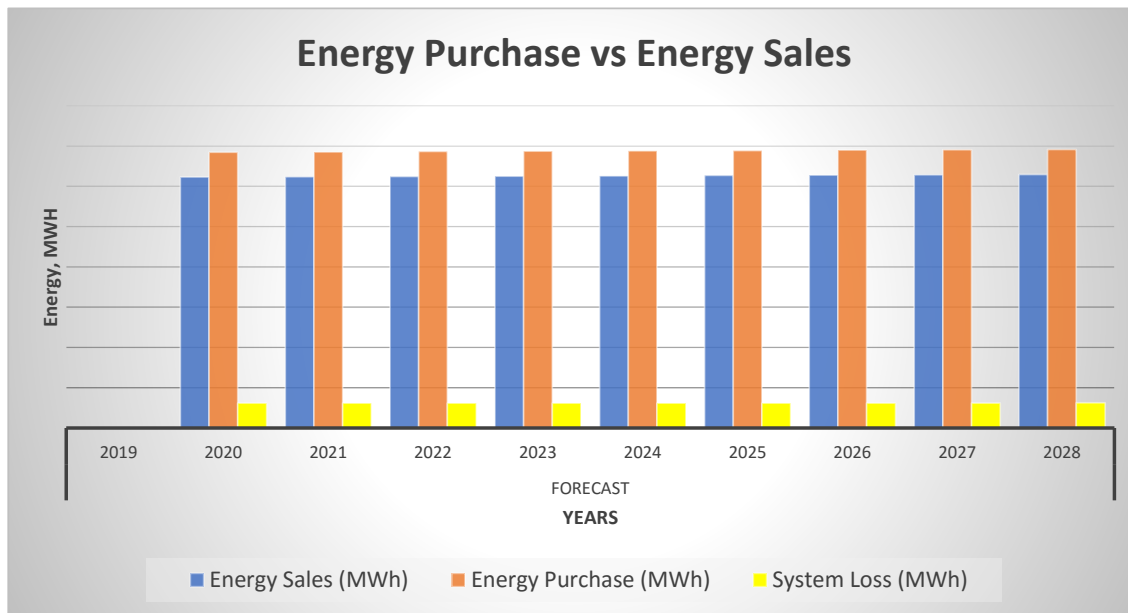
ENERGY SALES AND PURCHASE	FORECAST									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Energy Sales (MWh)	251,732	276,550	287,414	298,279	309,143	320,007	330,872	341,736	352,600	363,465
Energy Purchase (MWh)	279,284	304,954	316,228	328,393	340,399	352,363	364,328	376,292	388,256	400,221
System Loss (MWh)	27,552	29,020	29,431	30,732	31,874	32,975	34,076	35,177	36,277	37,378



## ENERGY SALES AND PURCHASE (OFF-GRID)

ENERGY SALES AND PURCHASE	HISTORICAL									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Energy Sales (MWh)	-	-	-	-	-	-	-	-	-	-
Energy Purchase (MWh)	-	-	-	-	-	-	-	-	-	-
System Loss (MWh)	-	-	-	-	-	-	-	-	-	-

ENERGY SALES AND PURCHASE	FORECAST									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Energy Sales (MWh)	-	6,232	6,239	6,247	6,253	6,261	6,269	6,278	6,284	6,290
Energy Purchase (MWh)	-	6,849	6,856	6,865	6,871	6,880	6,889	6,898	6,905	6,912
System Loss (MWh)	-	616	617	618	618	619	620	621	621	622



**APPROVED SAGR FOR OFF-GRID ECs**

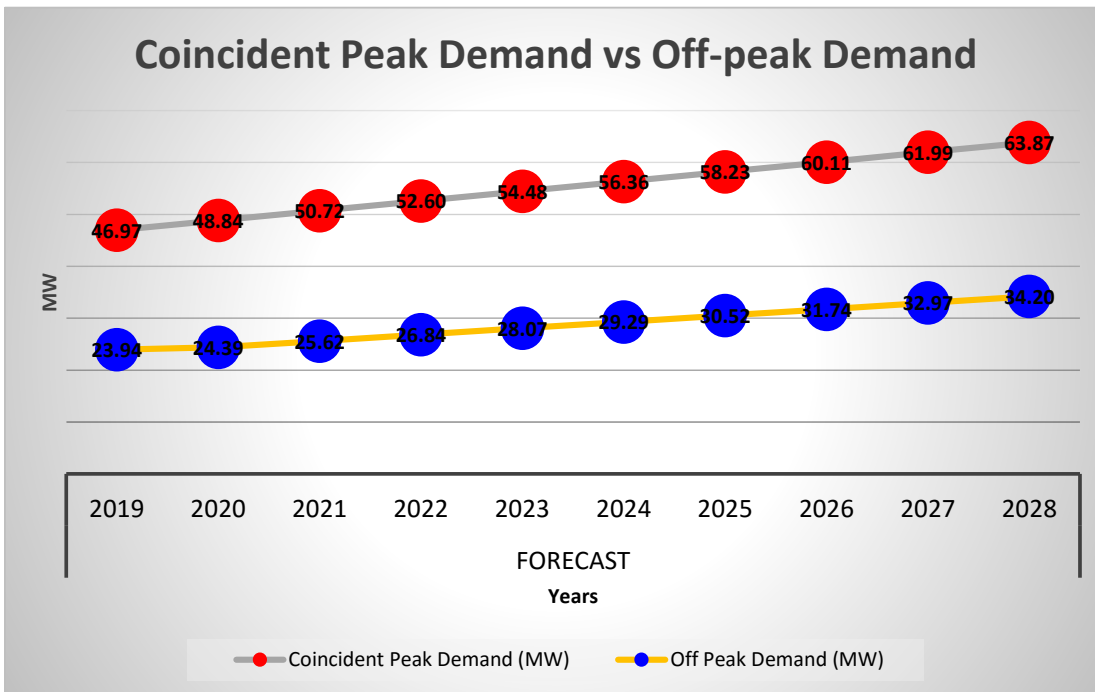
Since then, there is no approved SAGR for Aliguay and Selinog because it was not provided with power generation by the NPC Small Power Utilities Group (NPC-SPUG).

## DEMAND

(GRID)

Demand	HISTORICAL									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Coincident Peak Demand (MW)	25.32	26.95	29.48	29.82	31.42	32.72	34.35	36.53	39.08	42.00
Off Peak Demand (MW)	12.99	13.81	16.21	15.26	16.08	17.4	19.68	19.34	21.89	23.1

Demand	FORECAST									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Coincident Peak Demand (MW)	46.97	48.84	50.72	52.60	54.48	56.36	58.23	60.11	61.99	63.87
Off Peak Demand (MW)	23.94	24.39	25.62	26.84	28.07	29.29	30.52	31.74	32.97	34.20



Based on historical data, the annual average growth rate of ZANECO's demand for years 2014-2018 is 6.3% with an actual demand of 42.00 MW in 2018. For the determination of the forecasted values for the peak demand, the forecasting model used is the Linear Trend with Horizon. The forecasted demand will have an annual average growth rate of 6.0% for years 2019-2023 and 3.1% for years 2024-2028. Based on the result, the forecasted peak demand by end of the first-five year is 56.04MW and 65.43MW in the next five-year period. The forecasted data composed of the grid and off-grid franchise area.

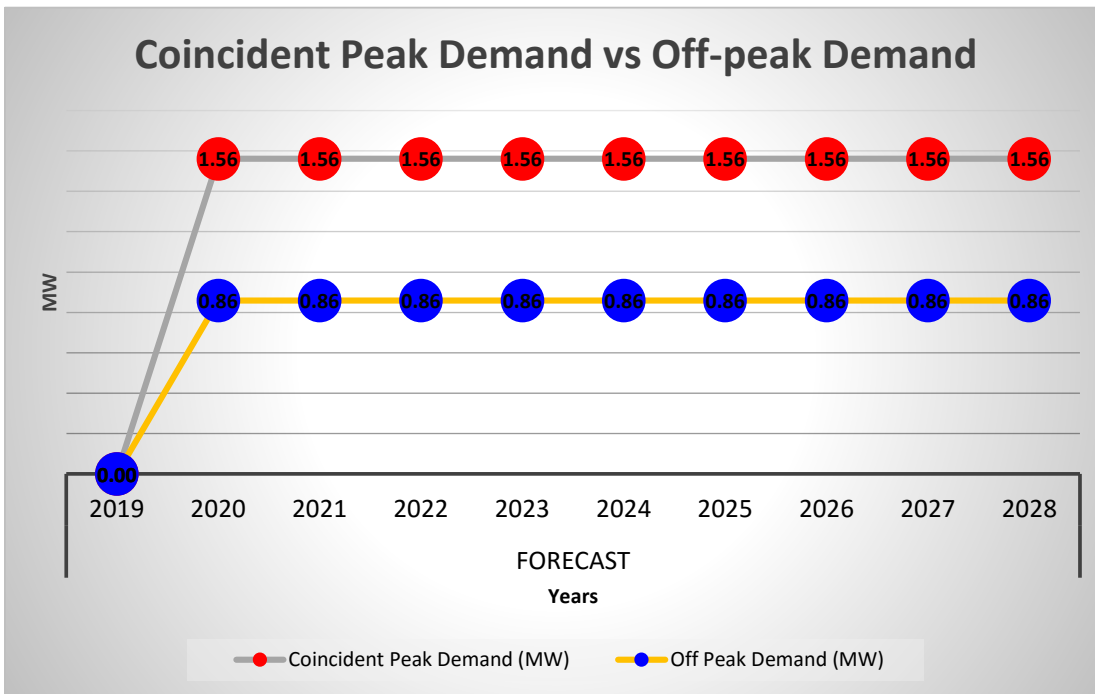


## DEMAND

(OFF-GRID)

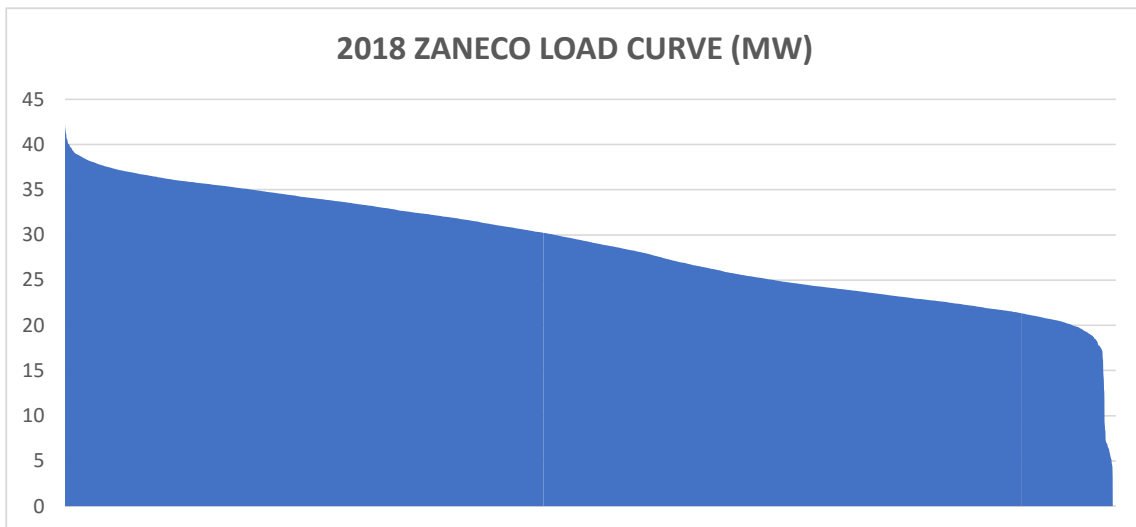
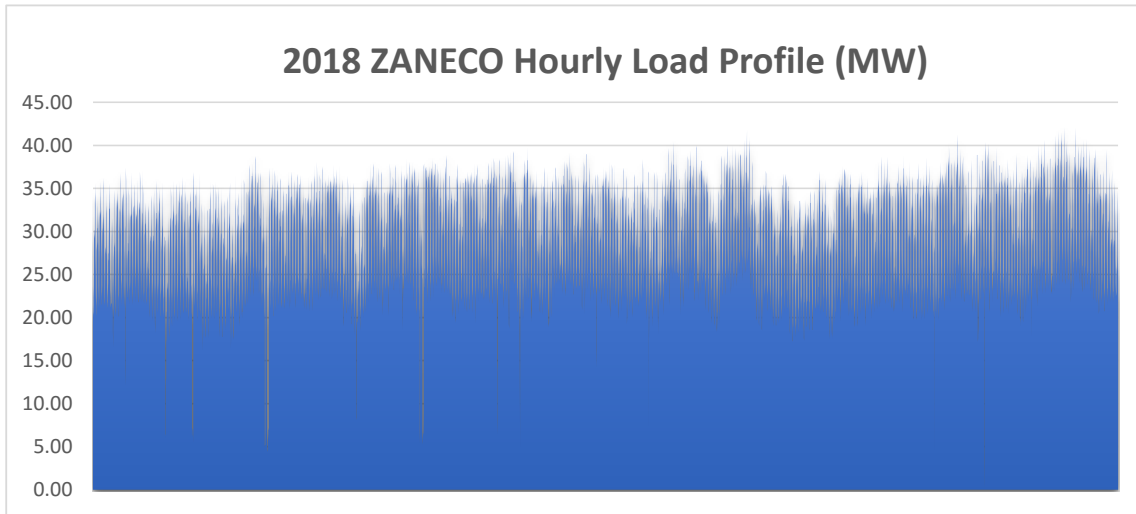
Demand	HISTORICAL									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Coincident Peak Demand (MW)	0	0	0	0	0	0	0	0	0	0
Off Peak Demand (MW)	0	0	0	0	0	0	0	0	0	0

Demand	FORECAST									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Coincident Peak Demand (MW)	0.00	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
Off Peak Demand (MW)	0.00	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86



There is no available historical data for these off-grid areas because it is still unenergized. The forecasted data are determined thru the data gathered during the actual visit on the islands of Aliguay and Selinog.

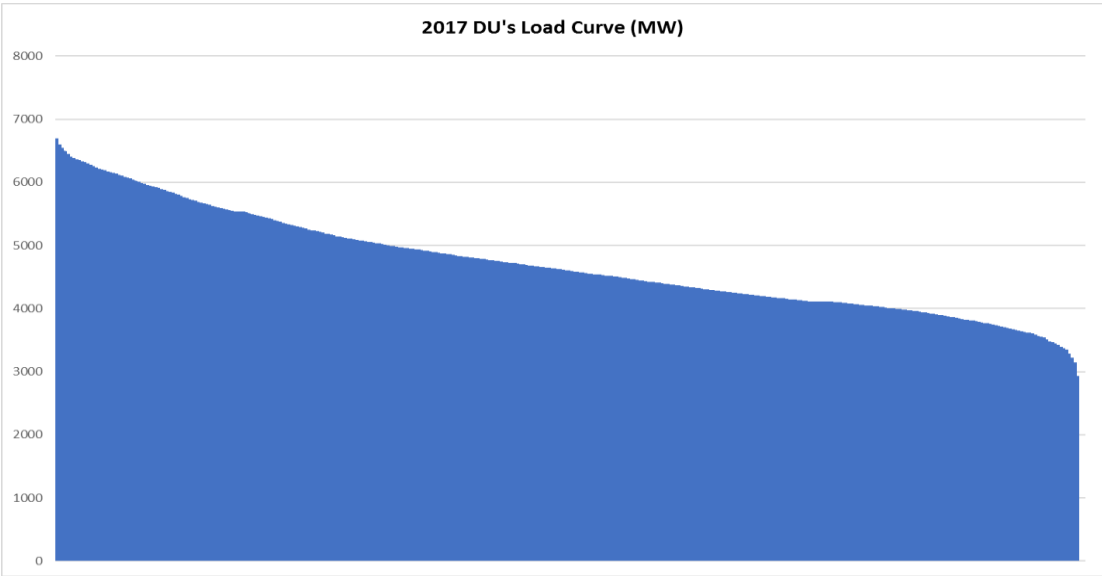
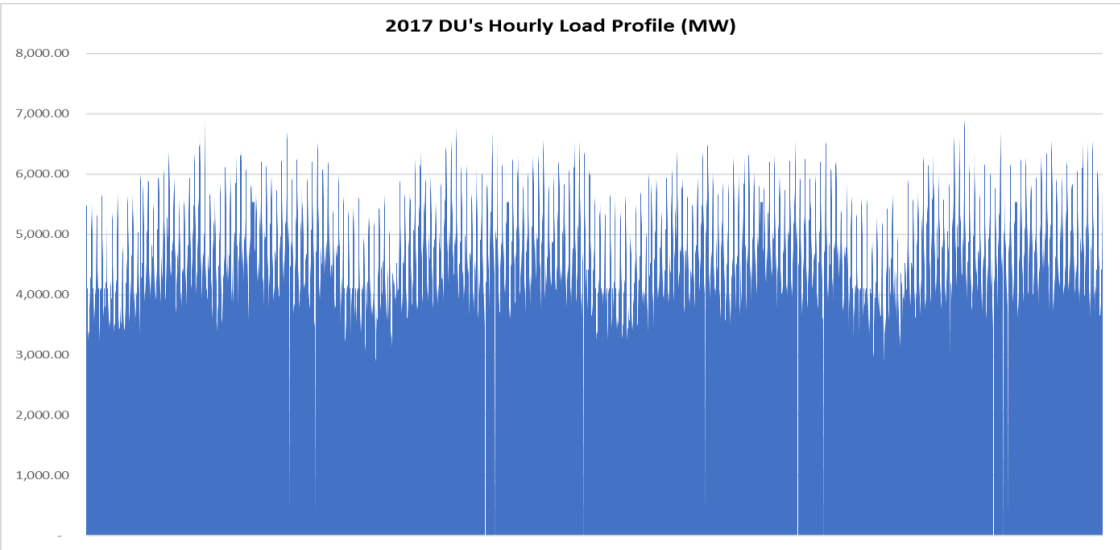
## LOAD PROFILE AND LOAD DURATION CURVE



Based on the 2018 load curve of ZANECO, the baseload is 12%, 84% is mid-merit load and 4% as peaking load. The equivalent demand based on the 2018 peak demand of 42.001MW is 5MW for baseload, the peak load is 2MW and the mid-merit load is 35MW. The mid merit load is supplied by the NPC/PSALM which is a mix of hydro and coal, and Hedcor Bukidnon, Inc., a FIT-eligible run-of-river hydropower plant.

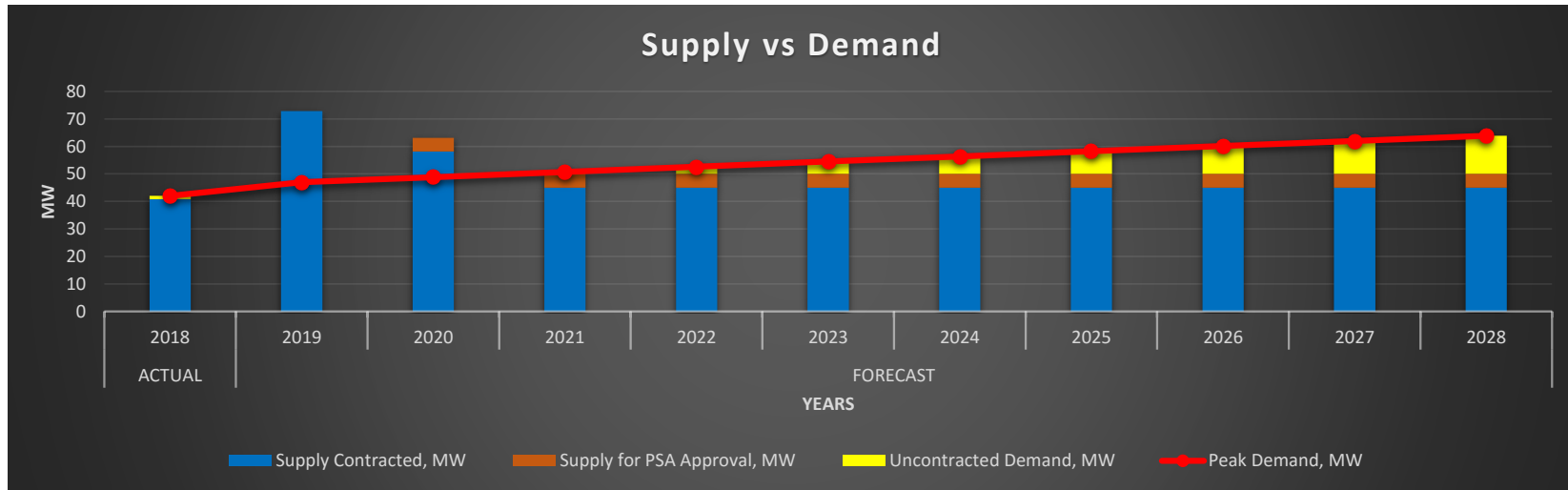
Due to unavailability of historical data, historical hourly load profile and load curve for year 2018 for Off-grid area is cannot be presented.

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### MIX SUPPLY VS DEMAND AND THE OPTIMAL SUPPLY

Supply Demand	ACTUAL	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Peak Demand, MW	42.001	46.96662	48.844	50.72209	52.59982	54.47756	56.35529	58.23302	60.11076	61.98849	63.86622
Supply Contracted, MW	40.797	72.853	58.149	45	45	45	45	45	45	45	45
PSALM	23.797	27.853	13.149								
TMI	7										
TSI	5	5	5	5	5	5	5	5	5	5	5
MPC	5										
GNPOWER		35	35	35	35	35	35	35	35	35	35
SEC		5	5	5	5	5	5	5	5	5	5
Supply for PSA Approval, MW	0	0	5	5	5	5	5	5	5	5	5
ASTRONERGY			5	5	5	5	5	5	5	5	5
Uncontracted Demand, MW	1.204	0	0	0.722091	2.599824	4.477558	6.355291	8.233024	10.11076	11.98849	13.86622



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List of Existing Contracts and Details

Supply Contracted	Plant Owner/ Operator	Capacity Factor	PSA Effectivity (MM/YR)	PSA Expiration (MM/YR)	Contracted Capacity, MW	Contracted Energy, MWH	Base / Mid-merit / Peaking	Embedded/ Grid Connected	Utility-owned/ NPC/ IPP/ NPC-IPP	Status	Fuel Type	Installed Capacity (MW)	Net Dependable Capacity (MW)
PSALM	NPC/PSALM		Dec-17	Dec-20	27853	166568.8	Mid-Merit	Grid Connected	NPC & NPC-IPP		HYDRO & C	1214.9	1038
Therma Marine	Aboitiz Power		Jan-12	Jan-19	7000	17812.43	Peaking	Grid Connected	IPP		DIESEL	200	198
Therma Solar	Aboitiz Power		Sep-15	Sep-40	5000	38400	Base	Grid Connected	IPP		COAL	300	260
Mapalad Power	Alcantara Group		Aug-14	Jul-18	5000	21717.5	Peaking	Grid Connected	IPP		DIESEL	114.4	103
Hedcor Bukidnon	Aboitiz Power		Jul-18	Jun-19	10000		Mid-Merit	Grid Connected	IPP (FIT)		RUN-OF-RIVER	68.8	68.8
Sarangani Energy Corp.			Oct-19	Oct-44	5000	39600	Base	Grid Connected	IPP		COAL	236	210
GN Power Kauswagan, Inc.			Aug-19	Aug-39	35000	109900	Base	Grid Connected	IPP		COAL	405	330

PSALM has approved the revision of ZANECO's contracted capacity and energy for the year 2019 with firm contract for January to June 2019 and an additional non-firm contract for the second half of the year. From an average contracted capacity of 20.353MW in 2019, PSALM revised it to an average of 27.853MW. This is due to the unavailability of the full contracted capacity from GNPower which is expected to commence in July 2019, and the expiration of supply contract with MPC on August 2018 and Therma Marine Inc. on January 2019. Despite the termination of the contracts from peak-load suppliers, the cooperative manages to source additional supply from its remaining power suppliers. Due to the as-available contract of Hedcor Bukidnon Inc. (HBI), it has only supplied ZANECO for an average of 2MW in an interval. Sarangani Energy Corporation (SEC) Phase 2 will be on testing and commissioning by April 2019 and will be operational tentatively on June 2019. Based on 2018 data, the optimal supply mix of ZANECO is 96% mix of baseload and intermediate load and 4% from peaking supply.

There is no existing power supply contracts for the supply of power for the two off-grid areas of ZANECO.

## DISTRIBUTION IMPACT STUDY

The cooperative filed its Multi-year Capital Expenditure Projects (CapEx) for the year 2009-2013 and 2016-2018. This year we are on the process of the application for Capital Expenditure Projects (CapEx) 2019-2021. The projects of 1st batch of CapEx 2009-2013 were implemented only one (1) still on the process, that is the installation of SCADA for 4 substations, namely M1-Dapitan, M4-Polanco, M6-Irasan and M7-Sindangan. As of now we are still waiting for the decision from the commission for the 2nd batch of CapEx but some of the projects were implemented because of provisional authority given from the ERC, one of the best example is the uprating of 10 MVA to 20 MVA brand new power transformer in Dapitan substation which during the ERC personnel visit, they considered it as emergency. For the year 2019, ZANECO will construct the 1-5 MVA Piñan Substation with 5.0 kms 69 kv construction, 2-5MVA Labason Substation with 21.0kms 69 kv constructions and additional of 1-5 MVA power transformer to Sindangan substation as N-1 redundancy. Also, we expect ERC's approval on our acquisition of the 69 kv Sub-transmission Assets of TRANSCO this year. An industrial cement plant (PETRA CEMENT) is expected to commission this June 2019 with an estimated demand of 4.0 Megawatt which will double its capacity by 2020. The foregoing projects are set to address power quality problems and increase the capacity and reliability of our over-all distribution system. Based on the results of forecasting and comprehensive planning, several projects are being laid out in order to improve the capacity, security, power quality, reliability, and efficiency of ZANECO's distribution system. All efforts of ZANECO are also aligned with the compliance of the Philippine Grid Code and Philippine Distribution Code.

**SCHEDULE OF CSP**

Base / mid-merit / peaking	For CSP		Proposed contract period		Proposed schedule (MM/YYYY)							
	Demand (MW)	Energy (MWh)	Start Month and Year	End Month and Year	Publication of Invitation to Bid	Pre-bid Conference	Submission and Opening of Bids	Bid Evaluation	Awarding	PSA Signing	Joint Application to ERC	
Mid-Merit (Embedded)	10	70,080	01-Jan-23	31-Dec-47	01-Apr-20							
					08-Apr-20	15-Apr-20	27-Apr-20	07-May-20	07-Jun-20	07-Jun-20	14-Jun-20	
Peaking (for Reserve)	5	500	01-Jan-21	31-Dec-30	01-Apr-20							
					08-Apr-20	15-Apr-20	27-Apr-20	07-May-20	07-Jun-20	07-Jun-20	14-Jun-20	
Mid-Merit (Off-Grid-Aliguay)	1	5,256	01-Jan-21	31-Dec-30	01-Apr-20							
					08-Apr-20	15-Apr-20	27-Apr-20	07-May-20	07-Jun-20	07-Jun-20	14-Jun-20	
Mid-Merit (Off-Grid-Selinog)	1	5,256	01-Jan-21	31-Dec-30	01-Apr-20							
					08-Apr-20	15-Apr-20	27-Apr-20	07-May-20	07-Jun-20	07-Jun-20	14-Jun-20	

## 10 Year Monthly Historical Data (Grid)

Year	Historical			Contracted and For PSA Approval Demand and Energy		Uncontracted Demand and Energy		Committed for CSP	
	Coinciden t Peak Demand (MW)	Off Peak Demand (MW)	Energy Requirem ent (MWh)	Demand (MW)	Energy (MWh)	Uncontra cted Demand (MW)	Uncontracte d Energy (MWh)	Demand (MW)	Energy (MWh)
2009									
Jan	23.87	11.97	10,168	29.81	10,135	-	32.07		
Feb	23.71	12.57	11,914	29.49	9,410	-	2,504.17		
Mar	24.23	12.72	11,220	29.68	9,598	-	1,622.16		
Apr	23.89	12.39	12,490	29.88	9,790	-	2,700.25		
May	24.04	12.26	11,920	30.07	9,985	-	1,934.51		
Jun	24.06	13.78	12,588	30.26	10,185	-	2,403.32		
Jul	23.71	12.57	11,863	30.46	10,389	-	1,473.82		
Aug	24.77	12.76	12,320	30.65	10,389	-	1,930.92		
Sep	24.54	13.37	12,253	27.29	10,511	-	1,741.74		
Oct	24.60	12.39	11,527	28.30	10,443	-	1,083.94		
Nov	24.04	12.81	12,496	27.57	10,290	-	2,205.99		
Dec	25.32	13.11	11,981	29.82	10,783	-	1,198.31		
2010									
Jan	25.52	13.51	12,442	32.20	10,511	-	1,931.38		
Feb	23.54	12.84	12,079	31.85	9,645	-	2,433.83		
Mar	23.26	13.68	10,699	32.06	9,838	-	861.73		
Apr	25.65	11.92	11,813	32.27	10,034	-	1,778.72		
May	25.37	14.39	12,534	32.48	10,235	-	2,299.18		
Jun	25.34	12.63	13,178	32.68	10,440	-	2,737.85		
Jul	24.98	12.84	12,315	32.90	10,649	-	1,666.53		
Aug	24.74	13.34	12,804	33.10	10,649	-	2,155.43		
Sep	25.16	12.60	12,878	29.48	10,774	-	2,104.79		
Oct	25.18	13.11	12,446	30.56	10,704	-	1,741.86		
Nov	26.72	12.70	13,240	29.78	10,548	-	2,692.33		
Dec	26.95	13.81	12,829	32.20	11,053	-	1,776.01		
2011									
Jan	26.72	13.85	13,126	34.45	10,649	-	2,477.31		
Feb	25.41	13.07	12,760	34.08	9,886	-	2,874.48		
Mar	23.78	13.97	11,834	34.30	10,084	-	1,750.86		
Apr	24.77	15.09	13,699	34.52	10,285	-	3,414.08		
May	26.06	13.52	14,222	34.75	10,491	-	3,731.29		
Jun	27.29	14.70	13,744	34.97	10,701	-	3,043.67		
Jul	25.96	15.32	13,335	35.20	10,915	-	2,420.11		
Aug	27.31	15.56	14,234	35.42	10,915	-	3,319.64		
Sep	26.57	14.12	13,918	21.20	7,376	5.36	6,541.72		
Oct	28.05	14.24	13,684	19.75	6,584	8.30	7,100.32		
Nov	28.59	14.60	14,352	19.91	7,052	8.69	7,300.75		
Dec	29.48	16.21	13,705	23.19	7,959	6.29	5,746.15		
2012									
Jan	29.22	16.30	14,309	27.53	7,545	1.69	6,763.61	16,300.67	
Feb	28.77	14.21	14,304	31.30	7,920	-	6,384.40	14,205.28	
Mar	28.88	14.99	13,621	31.07	8,446	-	5,175.60	14,987.37	



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Apr	29.02	15.82	14,827	24.81	7,760	4.21	7,066.34	15,818.83	
May	28.08	14.14	14,762	35.91	10,016	-	4,746.45	14,137.94	
Jun	29.82	15.96	14,808	34.11	9,199	-	5,609.44	15,956.79	
Jul	29.16	15.64	13,709	33.92	9,515	-	4,193.97	15,643.82	
Aug	29.61	16.90	14,731	36.06	10,274	-	4,456.55	16,897.20	
Sep	29.17	16.68	14,316	29.80	9,605	-	4,711.49	16,683.00	
Oct	28.91	14.61	13,829	32.33	11,194	-	2,634.68	14,611.25	
Nov	29.91	15.19	14,362	30.52	11,175	-	3,186.57	15,188.63	
Dec	29.82	15.25	14,405	31.55	10,192	-	4,213.12	15,254.52	
2013								-	
Jan	29.81	16.08	14,765	27.58	13,526	2.23	1,239.04	16,080.45	
Feb	29.33	14.82	14,622	24.85	12,908	4.48	1,713.82	14,819.71	
Mar	29.84	10.07	13,980	25.72	13,065	4.12	915.20	10,074.24	
Apr	29.77	16.51	15,305	23.97	12,205	5.80	3,099.08	16,505.74	
May	29.44	17.62	15,296	23.03	12,194	6.40	3,102.44	17,619.26	
Jun	30.05	17.03	15,417	21.14	11,061	8.91	4,356.21	17,030.29	
Jul	28.92	15.29	14,196	22.18	11,091	6.73	3,105.07	15,285.65	
Aug	29.81	15.81	14,661	26.28	14,402	3.53	259.08	15,808.29	
Sep	29.66	15.33	15,016	23.31	13,653	6.35	1,362.76	15,332.93	
Oct	28.89	15.56	14,122	22.65	12,424	6.24	1,698.63	15,564.01	
Nov	30.67	14.90	14,986	23.97	13,505	6.70	1,481.03	14,897.18	
Dec	31.42	16.08	15,352	26.37	13,324	5.05	2,027.96	16,080.45	
2014								-	
Jan	31.55	17.75	14,069	28.68	13,871	2.87	197.97	17,751.69	
Feb	28.92	15.21	14,271	27.92	14,873	0.99	-	15,207.95	
Mar	29.49	15.30	12,593	27.85	14,338	1.65	-	15,299.06	
Apr	30.50	18.04	15,334	25.23	15,842	5.27	-	18,036.98	
May	29.92	14.61	14,900	26.02	15,961	3.90	-	14,611.59	
Jun	31.11	17.34	16,571	27.56	14,015	3.55	2,556.20	17,337.89	
Jul	29.89	15.19	14,822	27.89	12,583	2.00	2,239.55	15,189.31	
Aug	30.96	16.45	15,493	32.82	14,692	-	800.07	16,447.03	
Sep	30.31	15.94	15,334	30.01	14,028	0.30	1,306.50	15,943.85	
Oct	31.45	16.47	15,395	29.06	12,439	2.40	2,956.50	16,474.26	
Nov	31.33	13.23	15,595	27.96	12,787	3.37	2,807.42	13,232.45	
Dec	32.72	17.40	16,143	32.52	15,240	0.20	902.99	17,402.20	
2015								-	
Jan	30.88	13.20	15,141	25.08	9,299	5.80	5,841.46	13,204.87	
Feb	30.66	14.47	15,477	23.44	9,907	7.22	5,570.48	14,471.72	
Mar	31.64	15.95	14,644	24.07	9,721	7.57	4,923.15	15,951.05	
Apr	33.40	18.00	17,098	24.50	11,431	8.90	5,667.24	17,998.68	
May	32.10	19.49	16,917	25.61	13,094	6.49	3,822.98	19,487.52	
Jun	31.85	17.69	16,842	23.54	11,986	8.31	4,856.30	17,687.53	
Jul	31.51	16.84	15,572	24.52	12,620	6.99	2,951.84	16,838.81	
Aug	32.99	18.22	16,974	27.30	15,339	5.70	1,635.24	18,216.91	
Sep	32.90	18.22	17,083	30.01	13,630	2.88	3,453.32	18,217.42	
Oct	33.52	22.65	16,486	29.85	13,422	3.67	3,063.94	22,645.30	
Nov	34.35	19.03	17,733	30.34	15,124	4.01	2,608.77	19,033.22	
Dec	33.98	19.68	17,148	31.43	15,227	2.55	1,920.29	19,683.38	
2016								-	
Jan	33.70	18.19	18,092	29.59	16,853	4.11	1,238.58	18,194.06	
Feb	33.30	19.42	17,664	28.94	17,195	4.36	468.94	19,424.16	
Mar	33.26	19.10	16,632	29.30	17,258	3.96	-	19,095.55	

POWER SUPPLY PROCUREMENT PLAN

Apr	35.16	22.28	17,342	28.10	18,152	7.05	-	22,278.31	
May	35.44	21.01	19,327	27.54	17,544	7.91	1,782.55	21,011.26	
Jun	36.08	21.36	18,832	27.13	15,430	8.95	3,402.58	21,360.53	
Jul	34.78	18.10	16,072	26.87	13,393	7.91	2,678.84	18,097.13	
Aug	35.65	19.51	16,860	28.24	15,621	7.41	1,238.57	19,505.81	
Sep	35.58	18.47	17,261	27.20	14,815	8.38	2,445.75	18,472.78	
Oct	36.51	19.64	16,635	27.42	12,849	9.08	3,785.75	19,644.24	
Nov	35.48	18.79	17,916	27.74	14,124	7.74	3,791.34	18,790.97	
Dec	36.53	19.34	17,342	28.93	13,063	7.60	4,279.37	19,339.32	
2017								-	
Jan	36.02	18.23	18,076	30.18	14,230	5.85	3,845.87	18,231.86	
Feb	35.96	19.73	16,983	33.96	15,113	2.00	1,869.89	19,728.74	
Mar	34.92	19.08	15,470	34.47	13,093	0.46	2,376.98	19,083.29	
Apr	37.04	20.97	18,510	32.96	14,563	4.09	3,946.64	20,965.73	
May	36.98	22.76	17,707	32.72	15,873	4.26	1,833.98	22,760.14	
Jun	36.78	20.09	18,414	32.27	14,458	4.52	3,955.48	20,089.44	
Jul	36.09	20.48	16,812	32.72	11,831	3.38	4,980.99	20,477.30	
Aug	37.09	21.52	18,787	33.96	15,254	3.13	3,533.49	21,515.26	
Sep	36.31	19.59	19,250	34.03	14,387	2.28	4,862.50	19,585.89	
Oct	38.09	21.77	16,975	34.00	15,614	4.09	1,361.35	21,773.98	
Nov	38.10	20.46	18,123	34.38	16,938	3.72	1,185.00	20,464.98	
Dec	39.08	21.89	14,353	35.58	14,112	3.50	241.23	21,894.49	
2018								-	
Jan	37.05	21.21	19,640	45.55	34,434	-	-	21,210.00	
Feb	38.30	22.48	19,291	43.77	34,715	-	-	22,481.03	
Mar	38.42	21.49	18,683	44.83	35,011	-	-	21,491.46	
Apr	38.96	23.80	20,498	45.19	36,140	-	-	23,802.80	
May	39.02	24.06	20,448	46.19	36,887	-	-	24,060.12	
Jun	39.09	21.46	20,278	45.63	36,584	-	-	21,458.70	
Jul	40.00	24.20	19,968	53.72	38,735	-	-	24,204.54	
Aug	41.40	25.14	21,531	39.72	26,955	1.68	-	25,140.92	
Sep	38.29	21.52	20,091	39.47	26,712	-	-	21,524.16	
Oct	38.70	21.55	20,410	40.08	27,021	-	-	21,545.50	
Nov	40.46	22.08	21,465	40.93	28,171	-	-	22,083.21	
Dec	42.00	23.10	21,290	41.54	28,480	0.46	-	23,100.00	

## 10 Year Monthly Forecasted Data (Grid)

Year	Forecast			Contracted and For PSA Approval Demand and Energy		Uncontracted Demand and Energy		Committed for CSP	
	Coincident Peak Demand (MW)	Off Peak Demand (MW)	Energy Requirement (MWh)	Demand (MW)	Energy (MWh)	Uncontracted Demand (MW)	Uncontracted Energy (MWh)	Demand (MW)	Energy (MWh)
2019									
Jan	42.83	22.71	22,404	49.66	27,795	-	-		
Feb	43.22	23.87	22,612	48.82	27,298	-	-		
Mar	43.11	22.82	22,553	49.89	25,233	-	-		
Apr	44.37	25.26	23,210	50.66	28,389	-	-		
May	44.30	25.57	23,176	50.31	27,275	-	-		
Jun	44.46	23.55	23,259	50.82	28,486	-	-		
Jul	44.49	25.64	23,273	64.34	39,228	-	-		
Aug	45.74	26.34	23,928	65.62	41,302	-	-		
Sep	43.86	22.69	22,944	65.50	41,225	-	-		
Oct	44.81	24.88	23,441	65.81	40,076	-	-		
Nov	45.71	23.43	23,913	66.25	41,674	-	-		
Dec	46.97	24.50	24,570	66.56	40,510	-	-		
2020									
Jan	44.54	22.71	22,184	63.18	37,584	-	-		
Feb	44.95	23.79	22,391	62.83	37,377	-	-		
Mar	44.83	22.81	22,333	62.86	33,798	-	-		
Apr	46.14	25.10	22,983	63.17	37,582	-	-		
May	46.07	25.40	22,949	63.03	36,286	-	-		
Jun	46.24	23.49	23,031	63.24	37,621	-	-		
Jul	46.27	25.47	23,045	63.04	36,292	-	-		
Aug	47.57	26.12	23,694	63.16	37,572	-	-		
Sep	45.61	22.69	22,720	63.10	37,539	-	-		
Oct	46.60	24.75	23,212	63.23	36,403	-	-		
Nov	47.54	23.38	23,679	63.41	37,725	-	-		
Dec	48.84	24.39	24,330	63.54	36,582	-	-		
2021	-								
Jan	46.25	23.94	23,056	50.00	29,734	-	-	5.00	500
Feb	46.68	25.02	23,270	50.00	29,734	-	-	5.00	500
Mar	46.56	24.04	23,210	50.00	26,857	-	-	5.00	500
Apr	47.91	26.33	23,885	50.00	29,734	-	-	5.00	500
May	47.84	26.62	23,851	50.00	28,775	-	-	5.00	500
Jun	48.01	24.72	23,936	50.00	29,734	-	-	5.00	500
Jul	48.04	26.69	23,951	50.00	28,775	-	-	5.00	500
Aug	49.40	27.34	24,625	50.00	29,734	-	-	5.00	500
Sep	47.37	23.92	23,612	50.00	29,734	-	-	5.00	500
Oct	48.39	25.97	24,124	50.00	28,775	-	-	5.00	500
Nov	49.37	24.61	24,609	50.00	29,734	-	-	5.00	500
Dec	50.72	25.62	25,285	50.00	28,775	0.72	-	5.00	500
2022									
Jan	47.96	25.17	23,927	50.00	29,727	-	-	5.00	500
Feb	48.41	26.25	24,150	50.00	29,727	-	-	5.00	500
Mar	48.28	25.27	24,087	50.00	26,850	-	-	5.00	500

POWER SUPPLY PROCUREMENT PLAN

Apr	49.69	27.55	24,788	50.00	29,727	-	-	5.00	500
May	49.62	27.84	24,752	50.00	28,768	-	-	5.00	500
Jun	49.79	25.95	24,841	50.00	29,727	-	-	5.00	500
Jul	49.82	27.91	24,856	50.00	28,768	-	-	5.00	500
Aug	51.23	28.56	25,556	50.00	29,727	1.23	-	5.00	500
Sep	49.12	25.15	24,505	50.00	29,727	-	-	5.00	500
Oct	50.18	27.19	25,036	50.00	28,768	0.18	-	5.00	500
Nov	51.19	25.84	25,539	50.00	29,727	1.19	-	5.00	500
Dec	52.60	26.84	26,241	50.00	28,768	2.60	-	5.00	500
2023									
Jan	49.67	26.40	24,799	50.00	29,414	-	-	15.00	6,452
Feb	50.14	27.47	25,030	50.00	29,414	0.14	-	15.00	6,452
Mar	50.01	26.50	24,965	50.00	26,568	0.01	-	15.00	6,452
Apr	51.46	28.77	25,691	50.00	29,414	1.46	-	15.00	6,452
May	51.39	29.06	25,654	50.00	28,465	1.39	-	15.00	6,452
Jun	51.57	27.17	25,745	50.00	29,414	1.57	-	15.00	6,452
Jul	51.60	29.13	25,761	50.00	28,465	1.60	-	15.00	6,452
Aug	53.05	29.78	26,487	50.00	29,414	3.05	-	15.00	6,452
Sep	50.87	26.38	25,397	50.00	29,414	0.87	-	15.00	6,452
Oct	51.97	28.42	25,948	50.00	28,465	1.97	-	15.00	6,452
Nov	53.02	27.07	26,470	50.00	29,414	3.02	-	15.00	6,452
Dec	54.48	28.07	27,197	50.00	28,465	4.48	-	15.00	6,452
2024									
Jan	51.39	27.63	25,671	50.00	29,418	1.39	-	15.00	6,452
Feb	51.86	28.70	25,909	50.00	29,418	1.86	-	15.00	6,452
Mar	51.73	27.73	25,842	50.00	26,571	1.73	-	15.00	6,452
Apr	53.24	29.99	26,594	50.00	29,418	3.24	-	15.00	6,452
May	53.16	30.29	26,555	50.00	28,469	3.16	-	15.00	6,452
Jun	53.35	28.40	26,650	50.00	29,418	3.35	-	15.00	6,452
Jul	53.38	30.35	26,667	50.00	28,469	3.38	-	15.00	6,452
Aug	54.88	31.00	27,418	50.00	29,418	4.88	-	15.00	6,452
Sep	52.63	27.61	26,290	50.00	29,418	2.63	-	15.00	6,452
Oct	53.77	29.64	26,859	50.00	28,469	3.77	-	15.00	6,452
Nov	54.85	28.30	27,400	50.00	29,418	4.85	-	15.00	6,452
Dec	56.36	29.29	28,153	50.00	28,469	6.36	-	15.00	6,452
2025									
Jan	53.10	29.30	26,542	50.00	29,706	3.10	-	15.00	6,452
Feb	53.59	29.41	26,789	50.00	29,706	3.59	-	15.00	6,452
Mar	53.45	29.52	26,719	50.00	26,831	3.45	-	15.00	6,452
Apr	55.01	29.63	27,497	50.00	29,706	5.01	-	15.00	6,452
May	54.93	29.74	27,457	50.00	28,748	4.93	-	15.00	6,452
Jun	55.12	29.85	27,555	50.00	29,706	5.12	-	15.00	6,452
Jul	55.16	29.96	27,572	50.00	28,748	5.16	-	15.00	6,452
Aug	56.71	30.07	28,348	50.00	29,706	6.71	-	15.00	6,452
Sep	54.38	30.19	27,183	50.00	29,706	4.38	-	15.00	6,452
Oct	55.56	30.30	27,771	50.00	28,748	5.56	-	15.00	6,452
Nov	56.68	30.41	28,330	50.00	29,706	6.68	-	15.00	6,452
Dec	58.23	30.52	29,109	50.00	28,748	8.23	360.56	15.00	6,260
2026	-								
Jan	54.81	30.53	27,414	50.00	29,699	4.81	-	15.00	6,452
Feb	55.32	30.64	27,668	50.00	29,699	5.32	-	15.00	6,452
Mar	55.18	30.75	27,597	50.00	26,825	5.18	771.23	15.00	6,452

POWER SUPPLY PROCUREMENT PLAN

Apr	56.78	30.86	28,400	50.00	29,699	6.78	-	15.00	6,452
May	56.70	30.97	28,359	50.00	28,741	6.70	-	15.00	6,452
Jun	56.90	31.08	28,460	50.00	29,699	6.90	-	15.00	6,452
Jul	56.94	31.19	28,477	50.00	28,741	6.94	-	15.00	6,452
Aug	58.54	31.30	29,279	50.00	29,699	8.54	-	15.00	6,452
Sep	56.13	31.41	28,075	50.00	29,699	6.13	-	15.00	6,452
Oct	57.35	31.52	28,683	50.00	28,741	7.35	-	15.00	6,452
Nov	58.50	31.63	29,260	50.00	29,699	8.50	-	15.00	6,452
Dec	60.11	31.74	30,064	50.00	28,741	10.11	1,322.93	15.00	6,452
2027	-								
Jan	56.52	31.76	28,285	50.00	29,305	6.52	-	15.00	6,452
Feb	57.05	31.87	28,548	50.00	29,305	7.05	-	15.00	6,452
Mar	56.90	31.98	28,474	50.00	26,469	6.90	2,004.44	15.00	6,452
Apr	58.56	32.09	29,303	50.00	29,305	8.56	-	15.00	6,452
May	58.47	32.20	29,260	50.00	28,360	8.47	900.01	15.00	6,452
Jun	58.68	32.31	29,364	50.00	29,305	8.68	58.97	15.00	6,452
Jul	58.72	32.42	29,383	50.00	28,360	8.72	1,022.72	15.00	6,452
Aug	60.37	32.53	30,210	50.00	29,305	10.37	904.56	15.00	6,452
Sep	57.89	32.64	28,968	50.00	29,305	7.89	-	15.00	6,452
Oct	59.14	32.75	29,595	50.00	28,360	9.14	1,234.98	15.00	6,452
Nov	60.33	32.86	30,190	50.00	29,305	10.33	885.05	15.00	6,452
Dec	61.99	32.97	31,020	50.00	28,360	11.99	2,660.01	15.00	6,452
2028	-								
Jan	58.24	32.99	29,157	50.00	29,686	8.24	-	15.00	6,452
Feb	58.78	33.10	29,428	50.00	29,686	8.78	-	15.00	6,452
Mar	58.62	33.21	29,351	50.00	26,813	8.62	2,537.95	15.00	6,452
Apr	60.33	33.32	30,205	50.00	29,686	10.33	519.39	15.00	6,452
May	60.24	33.43	30,162	50.00	28,728	10.24	1,433.19	15.00	6,452
Jun	60.46	33.54	30,269	50.00	29,686	10.46	583.08	15.00	6,452
Jul	60.50	33.65	30,288	50.00	28,728	10.50	1,559.68	15.00	6,452
Aug	62.20	33.76	31,141	50.00	29,686	12.20	1,454.73	15.00	6,452
Sep	59.64	33.87	29,860	50.00	29,686	9.64	174.14	15.00	6,452
Oct	60.93	33.98	30,507	50.00	28,728	10.93	1,778.48	15.00	6,452
Nov	62.16	34.09	31,121	50.00	29,686	12.16	1,434.61	15.00	6,452
Dec	63.87	34.20	31,976	50.00	28,728	13.87	3,247.42	15.00	6,452

### 10 Year Monthly Historical Data (Off-Grid)

Year	Historical			Contracted and For PSA Approval Demand and Energy		Uncontracted Demand and Energy		Committed for CSP	
	Coinciden t Peak Demand (MW)	Off Peak Demand (MW)	Energy Requirem ent (MWh)	Demand (MW)	Energy (MWh)	Uncontra cted Demand (MW)	Uncontracte d Energy (MWh)	Demand (MW)	Energy (MWh)
2009									
Jan						-	-		
Feb						-	-		
Mar						-	-		
Apr						-	-		
May						-	-		
Jun						-	-		
Jul						-	-		
Aug						-	-		
Sep						-	-		
Oct						-	-		
Nov						-	-		
Dec						-	-		
2010									
Jan						-	-		
Feb						-	-		
Mar						-	-		
Apr						-	-		
May						-	-		
Jun						-	-		
Jul						-	-		
Aug						-	-		
Sep						-	-		
Oct						-	-		
Nov						-	-		
Dec						-	-		
2011									
Jan						-	-		
Feb						-	-		
Mar						-	-		
Apr						-	-		
May						-	-		
Jun						-	-		
Jul						-	-		
Aug						-	-		
Sep						-	-		
Oct						-	-		
Nov						-	-		
Dec						-	-		
2012									
Jan						-	-	-	
Feb						-	-	-	
Mar						-	-	-	

POWER SUPPLY PROCUREMENT PLAN

Apr					-	-	-	
May					-	-	-	
Jun					-	-	-	
Jul					-	-	-	
Aug					-	-	-	
Sep					-	-	-	
Oct					-	-	-	
Nov					-	-	-	
Dec					-	-	-	
2013							-	
Jan					-	-	-	
Feb					-	-	-	
Mar					-	-	-	
Apr					-	-	-	
May					-	-	-	
Jun					-	-	-	
Jul					-	-	-	
Aug					-	-	-	
Sep					-	-	-	
Oct					-	-	-	
Nov					-	-	-	
Dec					-	-	-	
2014							-	
Jan					-	-	-	
Feb					-	-	-	
Mar					-	-	-	
Apr					-	-	-	
May					-	-	-	
Jun					-	-	-	
Jul					-	-	-	
Aug					-	-	-	
Sep					-	-	-	
Oct					-	-	-	
Nov					-	-	-	
Dec					-	-	-	
2015							-	
Jan					-	-	-	
Feb					-	-	-	
Mar					-	-	-	
Apr					-	-	-	
May					-	-	-	
Jun					-	-	-	
Jul					-	-	-	
Aug					-	-	-	
Sep					-	-	-	
Oct					-	-	-	
Nov					-	-	-	
Dec					-	-	-	
2016							-	
Jan					-	-	-	
Feb					-	-	-	
Mar					-	-	-	

POWER SUPPLY PROCUREMENT PLAN

Apr					-	-	-	
May					-	-	-	
Jun					-	-	-	
Jul					-	-	-	
Aug					-	-	-	
Sep					-	-	-	
Oct					-	-	-	
Nov					-	-	-	
Dec					-	-	-	
2017							-	
Jan					-	-	-	
Feb					-	-	-	
Mar					-	-	-	
Apr					-	-	-	
May					-	-	-	
Jun					-	-	-	
Jul					-	-	-	
Aug					-	-	-	
Sep					-	-	-	
Oct					-	-	-	
Nov					-	-	-	
Dec					-	-	-	
2018							-	
Jan					-	-	-	
Feb					-	-	-	
Mar					-	-	-	
Apr					-	-	-	
May					-	-	-	
Jun					-	-	-	
Jul					-	-	-	
Aug					-	-	-	
Sep					-	-	-	
Oct					-	-	-	
Nov					-	-	-	
Dec					-	-	-	



## 10 Year Monthly Forecasted Data (Off-Grid)

Year	Forecast			Contracted and For PSA Approval Demand and Energy		Uncontracted Demand and Energy		Committed for CSP	
	Coincident Peak Demand (MW)	Off Peak Demand (MW)	Energy Requirement (MWh)	Demand (MW)	Energy (MWh)	Uncontracted Demand (MW)	Uncontracted Energy (MWh)	Demand (MW)	Energy (MWh)
2019									
Jan						-	-		
Feb						-	-		
Mar						-	-		
Apr						-	-		
May						-	-		
Jun						-	-		
Jul						-	-		
Aug						-	-		
Sep						-	-		
Oct						-	-		
Nov						-	-		
Dec						-	-		
2020									
Jan	1.56		0.58			1.56	0.58		
Feb	1.56		0.58			1.56	0.58		
Mar	1.56		0.52			1.56	0.52		
Apr	1.56		0.58			1.56	0.58		
May	1.56		0.56			1.56	0.56		
Jun	1.56		0.58			1.56	0.58		
Jul	1.56		0.56			1.56	0.56		
Aug	1.56		0.58			1.56	0.58		
Sep	1.56		0.58			1.56	0.58		
Oct	1.56		0.56			1.56	0.56		
Nov	1.56		0.58			1.56	0.58		
Dec	1.56		0.56			1.56	0.56		
2021									
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806
Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864
2022									
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806

POWER SUPPLY PROCUREMENT PLAN

Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864
2023									
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806
Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864
2024									
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806
Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864
2025									
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806
Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864
2026	-								
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806

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Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864
2027	-								
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806
Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864
2028	-								
Jan	1.56		0.58			1.56	0.58	2.00	893
Feb	1.56		0.58			1.56	0.58	2.00	893
Mar	1.56		0.52			1.56	0.52	2.00	806
Apr	1.56		0.58			1.56	0.58	2.00	893
May	1.56		0.56			1.56	0.56	2.00	864
Jun	1.56		0.58			1.56	0.58	2.00	893
Jul	1.56		0.56			1.56	0.56	2.00	864
Aug	1.56		0.58			1.56	0.58	2.00	893
Sep	1.56		0.58			1.56	0.58	2.00	893
Oct	1.56		0.56			1.56	0.56	2.00	864
Nov	1.56		0.58			1.56	0.58	2.00	893
Dec	1.56		0.56			1.56	0.56	2.00	864