



Tarlac Electric Incorporated
Power Supply Procurement Plan
For Year 2018 - 2027

Submitted to DOE

TARLAC ELECTRIC 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 or you may contact us through telephone numbers (02) 840-2173 and (02) 479-2900 local 202.

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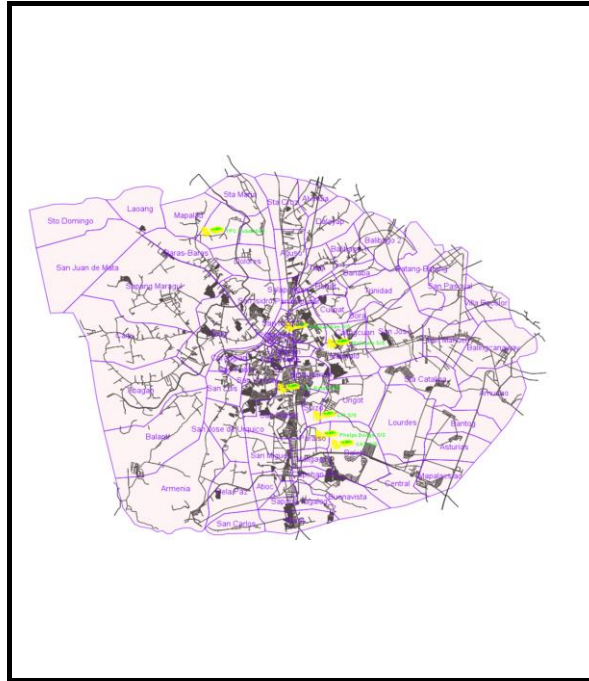
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INTRODUCTION

DISTRIBUTION UTILITIES PROFILE

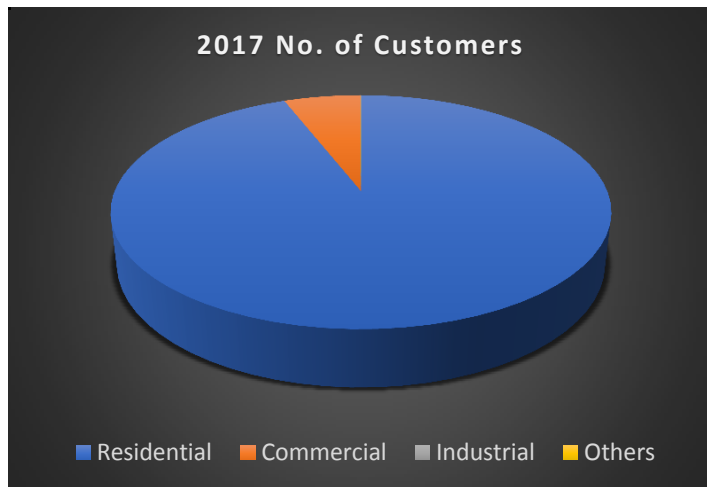
Tarlac Electric Inc. (TEI) is a distribution utility serving Tarlac City in the province of Tarlac which is composed of 76 barangays. TEI distribution system uses 69kV for its sub-transmission system, 13.8kV for its medium voltage circuits and, 230V/460V for its low voltage. Its power requirement is being supplied by two Independent Power Producers (IPP) namely, GNPowder Mariveles Coal Plant, Ltd. (GMCP) located in Mariveles, Bataan and, Tarlac Power Corporation (TPC), an embedded power generation located at Sto. Nino, Tarlac City. As of December 31, 2017, TEI has a total of 76,621 customers. There are 72,081 energized households, and 35 households to be energized by 2018.

Tarlac Electric Incorporated Franchise MAP



Number of Customer	ACTUAL	FORECAST									
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Residential	72,081	74,480	76,959	79,521	82,168	84,903	87,729	90,649	93,667	96,785	100,006
Commercial	4,498	4,718	4,499	4,718	4,948	4,718	4,948	5,189	4,948	5,189	5,442
Industrial	9	12	12	12	12	12	12	12	12	12	12
Others	33	33	33	33	33	33	33	33	33	33	33
Contestable Custod	7	13	13	13	13	13	13	13	13	13	13
Total (Captive)	76,612	79,235	81,495	84,276	87,153	89,658	92,714	95,875	98,652	102,011	105,485

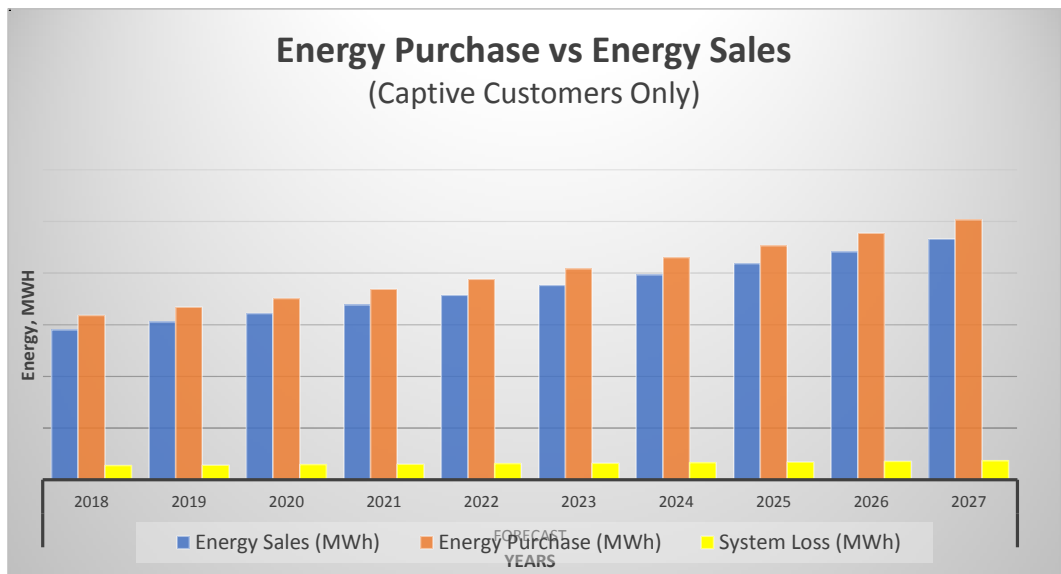
At present, TEI has seven (7) Contestable Customers, two (2) have switched in 2015, two (2) in 2016 and three (3) in 2017.



ENERGY SALES AND PURCHASE (CAPTIVE CUSTOMERS)

ENERGY SALES AND PURCHASE	HISTORICAL									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Energy Sales (MWh)	207,080	206,099	245,003	245,194	260,464	273,649	285,860	323,290	359,418	293,045
Energy Purchase (MWh)	224,884	226,663	266,835	266,374	281,750	294,507	306,715	345,400	381,824	315,953
System Loss (MWh)	17,804	20,563	21,832	21,180	21,285	20,859	20,855	22,110	22,406	22,908

ENERGY SALES AND PURCHASE	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Energy Sales (MWh)	290,514	305,691	321,799	338,898	357,057	376,348	396,846	418,634	441,801	466,440
Energy Purchase (MWh)	318,002	334,086	351,130	369,197	388,355	408,679	430,244	453,134	477,439	503,254
System Loss (MWh)	27,488	28,395	29,332	30,299	31,298	32,331	33,398	34,500	35,638	36,814

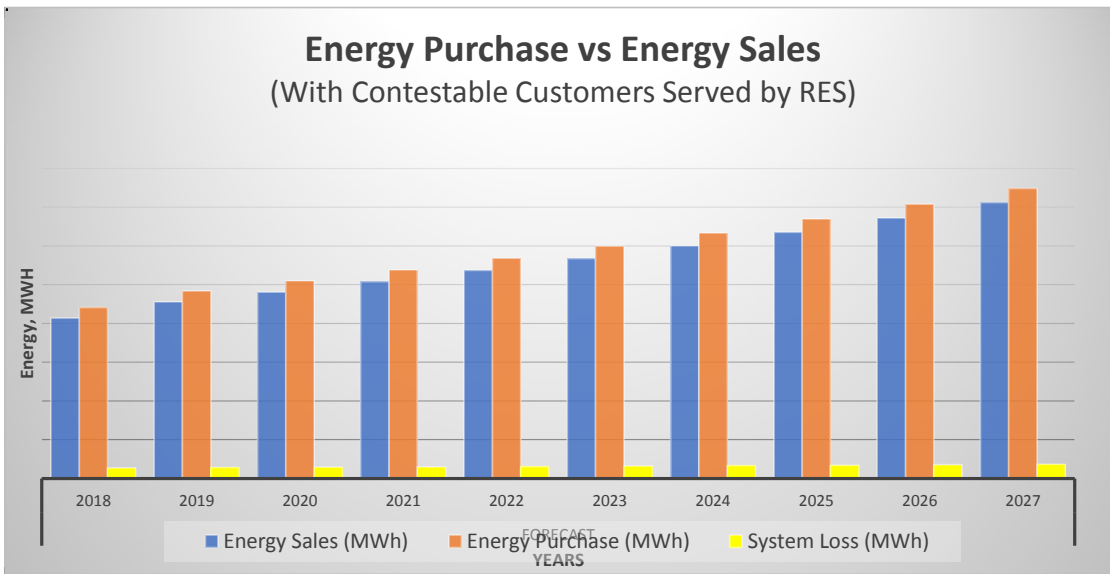


In 2017, the energy sales of TEI's residential customers has increased by 8,853 MWh and sales from the captive commercial customers has increased by 2,561 MWh.

ENERGY SALES AND PURCHASE (WITH CONTESTABLES SERVED BY RES)

ENERGY SALES AND PURCHASE	HISTORICAL									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Energy Sales (MWh)	207,080	206,099	245,003	245,194	260,464	273,649	285,860	323,290	362,863	394,369
Energy Purchase (MWh)	224,884	226,663	266,835	266,374	281,750	294,507	306,715	345,400	385,268	417,276
System Loss (MWh)	17,804	20,563	21,832	21,180	21,285	20,859	20,855	22,110	22,406	22,909

ENERGY SALES AND PURCHASE	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Energy Sales (MWh)	414,053	455,860	481,317	508,409	537,249	567,955	600,657	635,491	672,604	712,154
Energy Purchase (MWh)	441,541	484,255	510,648	538,708	568,547	600,287	634,055	669,991	708,242	748,967
System Loss (MWh)	27,488	28,395	29,332	30,299	31,298	32,331	33,398	34,500	35,638	36,814

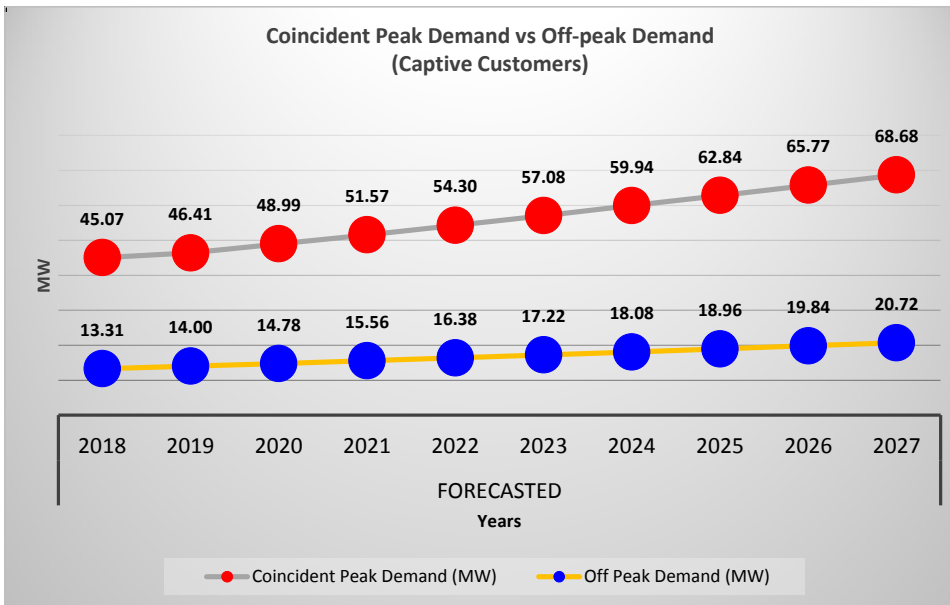


In 2016, TEI has an annual system loss of 5.8%, but it decreased to 5.49% in 2017. It is expected that in 2018, TEI will have a system loss of 6.2%, and will decrease to 4.92% by the year 2027. The 2018 data, as shown above, already considers the actual energy sales and purchases from January to July 2018.

DEMAND (CAPTIVE CUSTOMERS)

Demand	HISTORICAL									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Coincident Peak Demand (MW)	34.69	41.16	48.83	46.27	48.76	49.68	51.95	59.49	67.09	55.0
Off Peak Demand (MW)	10.55	12.52	14.85	14.07	14.83	15.11	15.80	17.03	20.24	16.58

Demand	Forecasted									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Coincident Peak Demand (MW)	45.07	46.41	48.99	51.57	54.3	57.08	59.94	62.84	65.77	68.68
Off Peak Demand (MW)	13.31	14	14.78	15.56	16.38	17.22	18.08	18.96	19.84	20.72

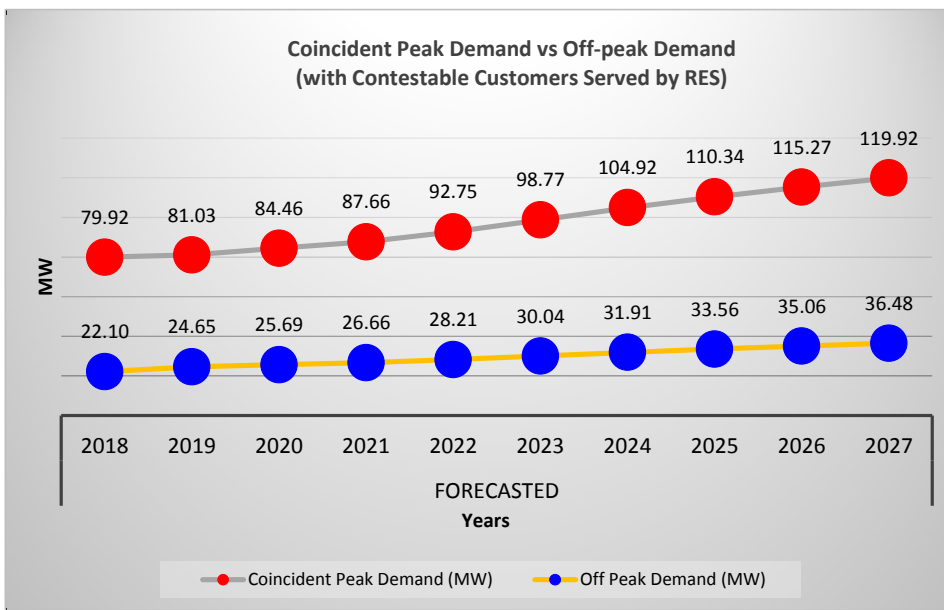


In 2017, newly applied poultry farms, schools, and commercial establishments have a huge effect on the growth of TEI demand for captive customers. But the shifting of some customers to contestable customers affected the demand in the captive market.

DEMAND (WITH CONTESTABLE CUSTOMERS SERVED BY RES)

Demand	HISTORICAL									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Coincident Peak Demand (MW)	34.695	41.159	48.828	46.27	48.761	49.676	51.95	59.494	67.09	70.3846
Off Peak Demand (MW)	10.554	12.52	14.853	14.0747	14.832	15.111	15.8	17.03	20.24	21.41

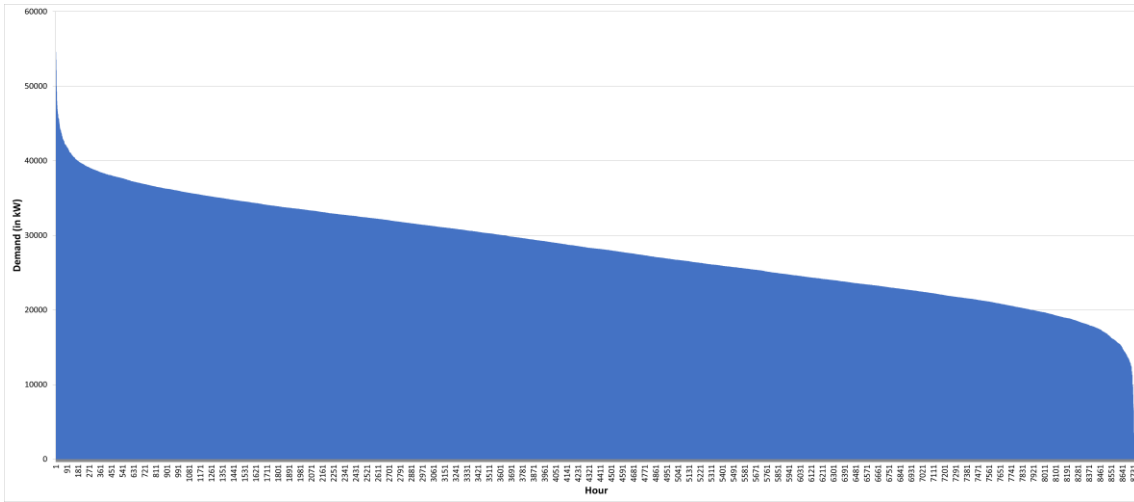
Demand	Forecasted									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Coincident Peak Demand (MW)	79.917	81.03	84.464	87.6593	92.747	98.768	104.9	110.34	115.27	119.9
Off Peak Demand (MW)	22.102	24.648	25.693	26.6647	28.212	30.044	31.91	33.564	35.062	36.5



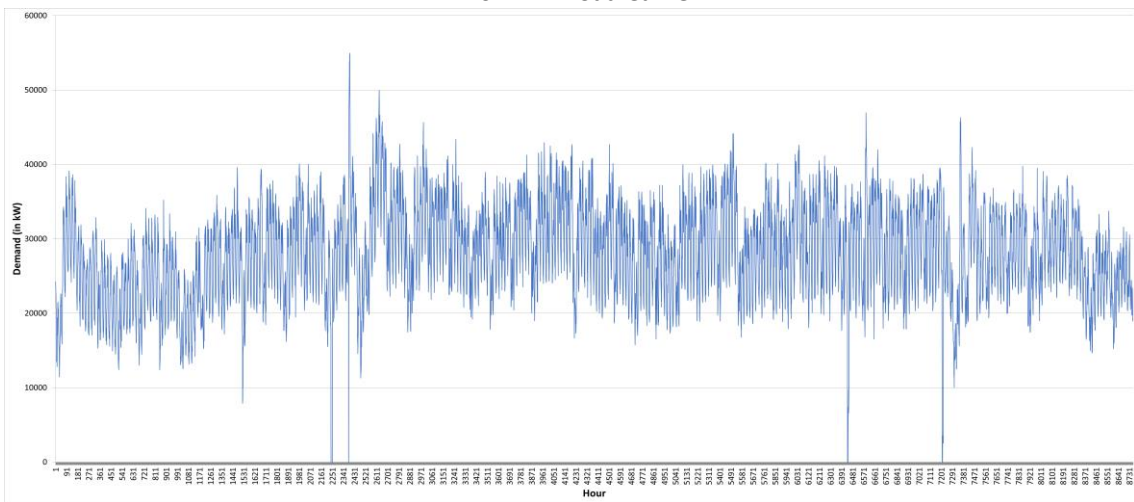
In 2018, an additional 2-MW load is added to the system. TEI is using a linear trend method as its forecasting model, and if the trend of 5% growth will take place, TEI will achieve its 100-MW peak demand by the year 2024. The 2018 data, as shown above, already considers the actual demand from January to July 2018.

LOAD PROFILE AND LOAD DURATION CURVE (CAPTIVE CUSTOMERS)

2017 TEI Load Duration Curve

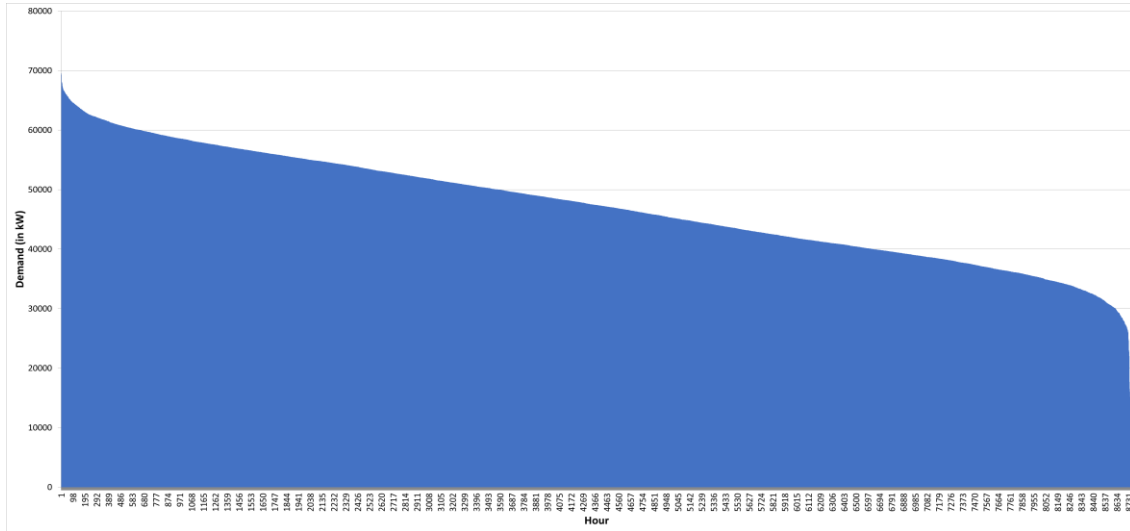


2017 TEI Load Curve

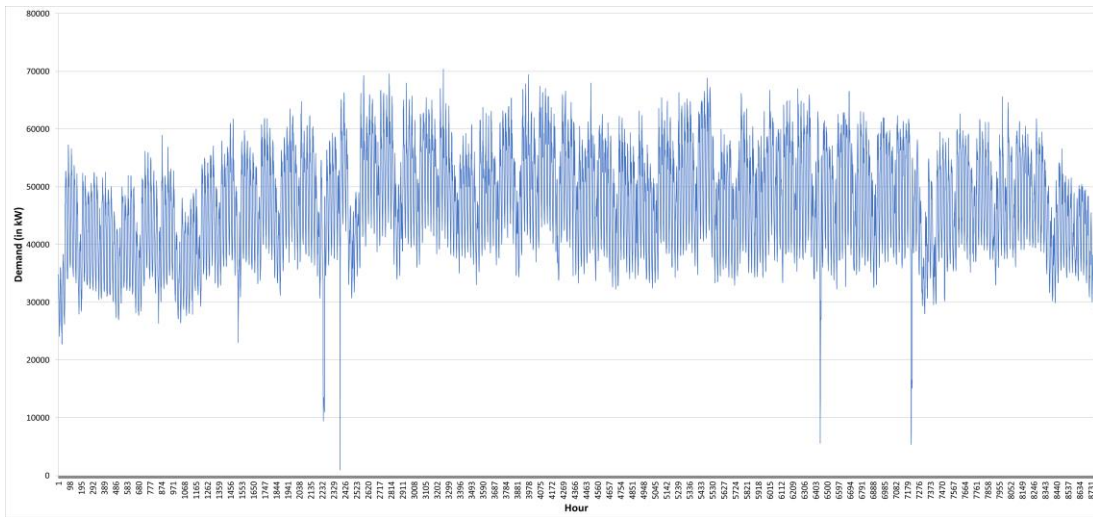


TEI's annual peak demand usually occurs in May. With TPC running between 9:00 AM to 10:00 PM, the peak demand of captive customers is 54,961.56 kW at 2392 hours, as shown in the Load Duration and Load Curve.

**LOAD PROFILE AND LOAD DURATION CURVE (WITH CONTESTABLE CUSTOMERS SERVED BY RES)
2017 TEI Load Duration Curve**



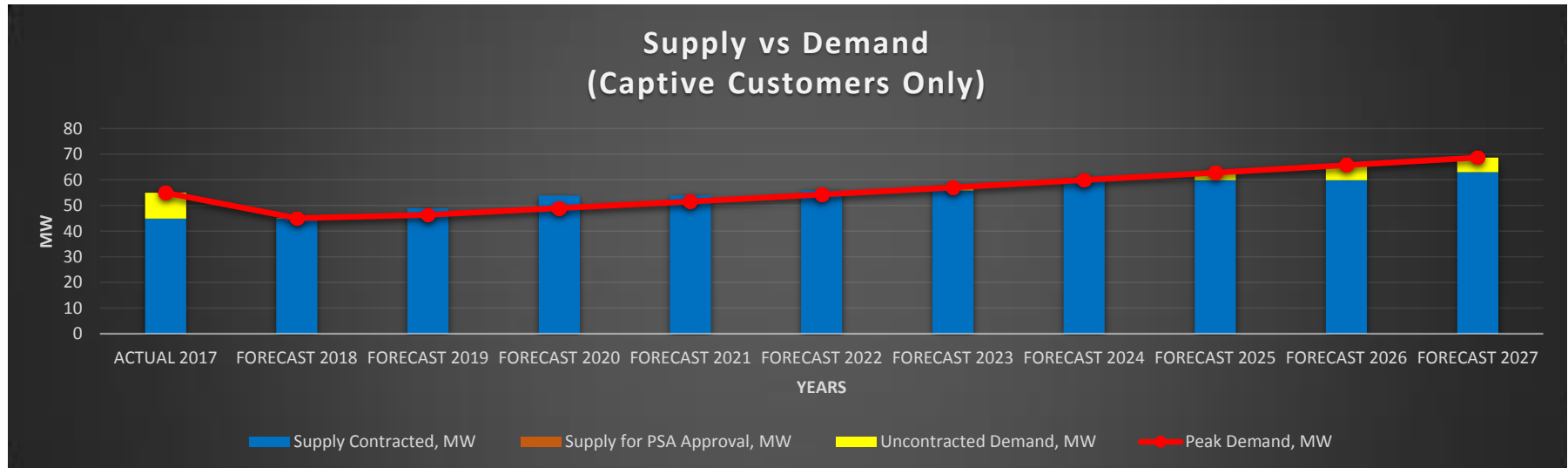
2017 TEI Load Curve



As shown in the Load Duration and Load Curve the peak demand for the the whole distribution system is 70,385 kW at 3255 hours.

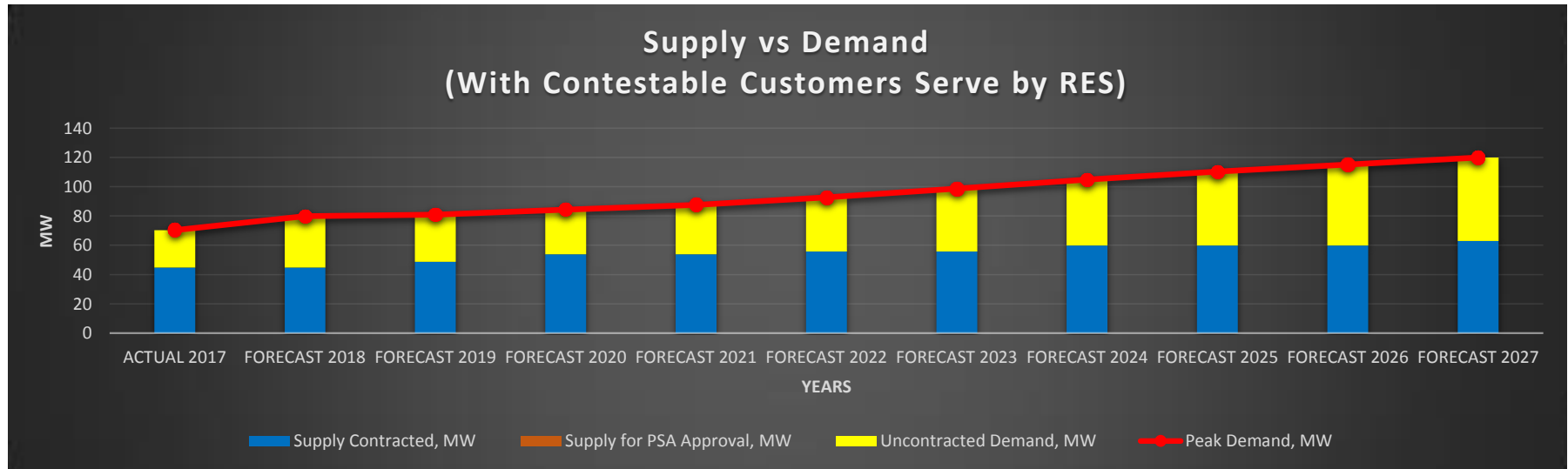
MIXSUPPLY VS DEMAND AND THE OPTIMAL SUPPLY (CAPTIVE CUSTOMERS)

Supply Demand	ACTUAL	FORECAST									
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Peak Demand, MW	54.96156	45.06614	46.41032	48.993829	51.57372	54.29967	57.07705	59.93802	62.83863	65.76716	68.68373
Supply Contracted, MW	44.88	44.88	48.88	53.88	53.88	55.88	55.88	59.88	59.88	59.88	63.00
GNPower Mariveles Coal Plant, Ltd.	30.00	30.00	34.00	34.00	34.00	36.00	36.00	40.00	40.00	40.00	58.00
Tarlac Power Corp.	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	-
GNPower Dinginin Ltd. Co.	-	-	-	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Supply for PSA Approval, MW	0	0	0	0	0	0	0	0	0	0	0
Generation Plant Name 1	-	-	-	-	-	-	-	-	-	-	-
Generation Plant Name 2	-	-	-	-	-	-	-	-	-	-	-
Generation Plant Name 3	-	-	-	-	-	-	-	-	-	-	-
Uncontracted Demand, MW	10.08156	0.186136	0	0	0	0	1.197053	0.058015	2.958627	5.887164	5.683732



MIXSUPPLY VS DEMAND AND THE OPTIMAL SUPPLY (WITH CONTESTABLE CUSTOMERS SERVED BY RES)

Supply Demand	ACTUAL	FORECAST									
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Peak Demand, MW	70.38456	79.91678	81.03035	84.463809	87.65931	92.74699	98.76788	104.9162	110.3418	115.265	119.9238
Supply Contracted, MW	44.88	44.88	48.88	53.88	53.88	55.88	55.88	59.88	59.88	59.88	63
GNPower Mariveles Coal Plant, Ltd.	30.00	30.00	34.00	34.00	34.00	36.00	36.00	40.00	40.00	40.00	58.00
Tarlac Power Corp.	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	14.88	-
GNPower Dinginin Ltd. Co.	-	-	-	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Supply for PSA Approval, MW	0	0	0	0	0	0	0	0	0	0	0
Generation Plant Name 1	-	-	-	-	-	-	-	-	-	-	-
Generation Plant Name 2	-	-	-	-	-	-	-	-	-	-	-
Generation Plant Name 3	-	-	-	-	-	-	-	-	-	-	-
Uncontracted Demand, MW	25.50456	35.03678	32.15035	30.583809	33.77931	36.86699	42.88788	45.03621	50.46183	55.38503	56.92378



POWER SUPPLY PROCUREMENT PLAN

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)
50.00	GMCP	65%	Feb-14	2028	50.00	280,800	Mid-Merit	Grid Connected	IPP		Coal-fired	632	600
14.88	TPC	80%	Apr-11	2027	14.88	44,150	Peaking	Embedded	IPP		Bunker-fired	18.6	14.88
5.00	GNPD	65%	Jan-20	2040	5.00	28,470	Base	Grid Connected	IPP		Coal-fired	1336	1320

Tarlac Power Corporation (TPC) currently operates on weekdays, during peak hours from nine (9) am to ten (10) pm. GNPowder Mariveles Coal Plant, Ltd. (GMCP) owns and operate a 2x310 MW clean pulverized coal-fired electric power generation facility located at Mariveles, Bataan. GNPowder Dinginin (GNPD) is another supplier for 5 MW which is expected to operate in 2020. As shown in the Supply vs Demand graph, TEI's contracted supply is sufficient to provide the demand needed by the franchise until 2026.

DISTRIBUTION IMPACT STUDY

Readiness of substation, distribution lines on the forecasted increase of loads

TEI has applied for the approval of its proposed additional substation at Brgy. San Vicente with 25/33 MVA transformer to address the following crucial concerns in the Poblacion and Northern area of Tarlac City:

1. It will relieve the critically loaded Panganiban Substation, which currently serves Poblacion and Northern areas. At present, Panganiban Substation is loaded by 81.52%.
2. It will satisfy N-1 reliability in the area. The existing set-up will breach the 70% limit on adjacent transformer capacity criteria by 2017.

TEI also plans to upgrade its Maliwalo SS power transformer to 25/33 MVA to address the following concerns:

1. To relieve the critically loaded Maliwalo Substation which is now operating at 83.33% and is expected to be loaded by 93.65% in 2019. This will significantly reduce power transformer loading to 36.13% upon installation of the project and will not reach 70% limit in 10 years.
2. To satisfy the company's N-1 reliability requirements with the adjacent substations.

Impact on the entry of a new power plant which may affect transmission congestion

Asian Carbon Neutral Power Corp. (ACNPC) is a 2-MW biomass generating plant located at Brgy. Armenia, Tarlac City. It mainly consists of two generating units with outputs of 1095 kW each. These are connected to a step up transformer rated at 2000AA/2660FA, 0.48/13.8kV, with +2x2.5% off-load tap changing. The embedded generating plant is planned to generate a maximum capacity of around 2MW, 400 kW of which, will be utilized internally while 1.6MW will be delivered to the grid thru TEI's Distribution system.

The Power Plant facilities will deliver power through the 13.8kV Sanrafarmenia primary feeder of the 21/28 MVA, 69kV/13.8kV San Rafael Substation of TEI. This substation is about 14.62km away from the Power Plant. The 7.1 MW-NV VOGT Solar Power Plant is connected to the same feeder and substation. The connection of the ACNPC's 2MW biomass generating plant to TEI's Distribution System is technically feasible and will not degrade TEI's distribution facilities. Also, it will not impose changes in the feeder and substation protection relay and equipment. TEI will require additional equipment for the proper monitoring and control of the protection and isolation devices.

NV Vogt Philippines has an **8.2-MWp Dalayap Solar Power Plant** at Barangay Dalayap, Tarlac City is connected to TEI's Panganiban substation with a 20/25 MVA power transformer. The solar plant is expected to deliver 5.8-MW power to the distribution system. Voltage levels on TEI's facility are maintained normally even the solar plant is connected during peak and off-peak conditions. Its fault contribution will not also significantly affect the setting of the existing protective devices.

NV Vogt Philippines also constructed the **8.84-MWp Armenia Solar Power Plant** which is connected to TEI's 28-MVA power transformer at San Rafael Substation via the existing 13.8-kV distribution system. The solar plant will contribute to the improvement of the voltage at the end of the feeder line. The solar plant is expected to deliver 7.1 MW power to the distribution system.

SCHEDULE OF CSP¹

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

¹ With the current supply contracts of TEI being sufficient, there is no plan yet to enter into a Power Supply Contract within the next five (5) years, except for the supply requirement in compliance to the Renewable Portfolio Standards (RPS), the quantity of which is yet to be determined.

10 Year Monthly Data

Year	Forecast (Captive Customers Only)			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 Requireme nt (MWh)	Demand (MW)	Energy (MWh)	Uncontrac ted Demand (MW)	Uncontrac ted Energy (MWh)	Demand (MW)	Energy (MWh)
2018									
Jan	36.64	12.60	23,804	68.88	30,542.69	(32.24)	-6,739	-	-
Feb	39.21	13.48	25,006	68.88	27,586.94	(29.67)	-2,581	-	-
Mar	42.77	14.71	24,796	68.88	30,542.69	(26.11)	-5,747	-	-
Apr	45.07	15.50	28,202	68.88	29,557.44	(23.81)	-1,356	-	-
May	44.93	15.45	28,967	68.88	30,542.69	(23.95)	-1,575	-	-
Jun	43.05	14.81	28,196	68.88	29,557.44	(25.83)	-1,362	-	-
Jul	39.09	13.44	25,105	68.88	30,542.69	(29.79)	-5,438	-	-
Aug	43.20	14.86	27,953	68.88	30,542.69	(25.68)	-2,589	-	-
Sep	42.06	14.47	28,071	68.88	29,557.44	(26.82)	-1,487	-	-
Oct	41.77	14.36	26,878	68.88	30,542.69	(27.11)	-3,665	-	-
Nov	41.19	14.17	27,027	68.88	29,557.44	(27.69)	-2,531	-	-
Dec	40.54	13.94	25,781	68.88	30,542.69	(28.34)	-4,762	-	-
2019									
Jan	37.79	13.92	24,550	68.88	30,542.69	(31.09)	-5,993	-	-
Feb	38.87	14.32	24,788	68.88	27,586.94	(30.01)	-2,799	-	-
Mar	42.71	15.74	24,761	68.88	30,542.69	(26.17)	-5,781	-	-
Apr	45.88	16.90	28,711	68.88	29,557.44	(23.00)	-847	-	-
May	46.41	17.10	29,920	68.88	30,542.69	(22.47)	-622	-	-
Jun	45.78	16.87	29,985	68.88	29,557.44	(23.10)	428	-	-
Jul	44.84	16.52	28,797	68.88	30,542.69	(24.04)	-1,746	-	-
Aug	45.39	16.72	29,367	68.88	30,542.69	(23.49)	-1,175	-	-
Sep	44.19	16.28	29,490	68.88	29,557.44	(24.69)	-67	-	-
Oct	43.88	16.17	28,238	68.88	30,542.69	(25.00)	-2,305	-	-
Nov	43.28	15.95	28,394	68.88	29,557.44	(25.60)	-1,163	-	-
Dec	42.59	15.69	27,085	68.88	30,542.69	(26.29)	-3,458	-	-
2020									
Jan	39.89	14.70	25,802	77.88	34,895.09	(37.99)	-9,093	-	-
Feb	41.03	15.12	26,052	77.88	32,643.79	(36.85)	-6,592	-	-
Mar	45.08	16.61	26,025	77.88	34,895.09	(32.80)	-8,870	-	-
Apr	48.43	17.85	30,175	77.88	33,769.44	(29.45)	-3,594	-	-
May	48.99	18.05	31,447	77.88	34,895.09	(28.89)	-3,448	-	-
Jun	48.33	17.81	31,515	77.88	33,769.44	(29.55)	-2,254	-	-
Jul	47.34	17.44	30,266	77.88	34,895.09	(30.54)	-4,629	-	-
Aug	47.91	17.65	30,866	77.88	34,895.09	(29.97)	-4,029	-	-
Sep	46.65	17.19	30,995	77.88	33,769.44	(31.23)	-2,774	-	-
Oct	46.33	17.07	29,678	77.88	34,895.09	(31.55)	-5,217	-	-
Nov	45.69	16.83	29,842	77.88	33,769.44	(32.19)	-3,927	-	-
Dec	44.96	16.56	28,466	77.88	34,895.09	(32.92)	-6,429	-	-
2021									

POWER SUPPLY PROCUREMENT PLAN

Jan	41.99	15.47	27,130	77.88	34,895.09	(35.89)	-7,765	-	-
Feb	43.19	15.91	27,393	77.88	31,518.14	(34.69)	-4,126	-	-
Mar	47.46	17.49	27,364	77.88	34,895.09	(30.42)	-7,531	-	-
Apr	50.98	18.79	31,728	77.88	33,769.44	(26.90)	-2,042	-	-
May	51.57	19.00	33,065	77.88	34,895.09	(26.31)	-1,830	-	-
Jun	50.88	18.75	33,137	77.88	33,769.44	(27.00)	-632	-	-
Jul	49.83	18.36	31,823	77.88	34,895.09	(28.05)	-3,072	-	-
Aug	50.44	18.58	32,454	77.88	34,895.09	(27.44)	-2,441	-	-
Sep	49.11	18.09	32,590	77.88	33,769.44	(28.77)	-1,179	-	-
Oct	48.77	17.97	31,205	77.88	34,895.09	(29.11)	-3,690	-	-
Nov	48.09	17.72	31,378	77.88	33,769.44	(29.79)	-2,392	-	-
Dec	47.32	17.44	29,931	77.88	34,895.09	(30.56)	-4,964	-	-
2022									
Jan	44.21	16.29	28,538	81.88	36,829.49	(37.67)	-8,292	-	-
Feb	45.47	16.76	28,814	81.88	33,265.34	(36.41)	-4,451	-	-
Mar	49.96	18.41	28,784	81.88	36,829.49	(31.92)	-8,046	-	-
Apr	53.68	19.78	33,374	81.88	35,641.44	(28.20)	-2,267	-	-
May	54.30	20.01	34,781	81.88	36,829.49	(27.58)	-2,049	-	-
Jun	53.57	19.74	34,857	81.88	35,641.44	(28.31)	-785	-	-
Jul	52.47	19.33	33,475	81.88	36,829.49	(29.41)	-3,355	-	-
Aug	53.10	19.57	34,138	81.88	36,829.49	(28.78)	-2,691	-	-
Sep	51.70	19.05	34,281	81.88	35,641.44	(30.18)	-1,360	-	-
Oct	51.34	18.92	32,825	81.88	36,829.49	(30.54)	-4,005	-	-
Nov	50.63	18.66	33,006	81.88	35,641.44	(31.25)	-2,635	-	-
Dec	49.83	18.36	31,484	81.88	36,829.49	(32.05)	-5,346	-	-
2023									
Jan	46.47	17.12	30,031	81.88	36,829.49	(35.41)	-6,798	-	-
Feb	47.80	17.61	30,322	81.88	33,265.34	(34.08)	-2,943	-	-
Mar	52.52	19.35	30,290	81.88	36,829.49	(29.36)	-6,539	-	-
Apr	56.42	20.79	35,121	81.88	35,641.44	(25.46)	-521	-	-
May	57.08	21.03	36,601	81.88	36,829.49	(24.80)	-228	-	-
Jun	56.31	20.75	36,681	81.88	35,641.44	(25.57)	1,039	-	-
Jul	55.15	20.32	35,226	81.88	36,829.49	(26.73)	-1,603	-	-
Aug	55.82	20.57	35,925	81.88	36,829.49	(26.06)	-905	-	-
Sep	54.35	20.02	36,075	81.88	35,641.44	(27.53)	434	-	-
Oct	53.97	19.89	34,542	81.88	36,829.49	(27.91)	-2,287	-	-
Nov	53.22	19.61	34,733	81.88	35,641.44	(28.66)	-908	-	-
Dec	52.37	19.30	33,132	81.88	36,829.49	(29.51)	-3,698	-	-
2024									
Jan	48.80	17.98	31,616	85.88	38,763.89	(37.08)	-7,148	-	-
Feb	50.20	18.49	31,922	85.88	36,262.99	(35.68)	-4,341	-	-
Mar	55.15	20.32	31,888	85.88	38,763.89	(30.73)	-6,876	-	-
Apr	59.25	21.83	36,974	85.88	37,513.44	(26.63)	-540	-	-
May	59.94	22.08	38,532	85.88	38,763.89	(25.94)	-232	-	-
Jun	59.13	21.79	38,616	85.88	37,513.44	(26.75)	1,103	-	-
Jul	57.92	21.34	37,085	85.88	38,763.89	(27.96)	-1,679	-	-
Aug	58.62	21.60	37,820	85.88	38,763.89	(27.26)	-944	-	-
Sep	57.07	21.03	37,979	85.88	37,513.44	(28.81)	466	-	-
Oct	56.68	20.88	36,365	85.88	38,763.89	(29.20)	-2,399	-	-
Nov	55.89	20.59	36,566	85.88	37,513.44	(29.99)	-947	-	-

POWER SUPPLY PROCUREMENT PLAN

Dec	55.00	20.26	34,880	85.88	38,763.89	(30.88)	-3,884	-	-
2025									
Jan	51.16	18.85	33,298	85.88	38,763.89	(34.72)	-5,466	-	-
Feb	52.62	19.39	33,620	85.88	35,012.54	(33.26)	-1,392	-	-
Mar	57.82	21.30	33,585	85.88	38,763.89	(28.06)	-5,179	-	-
Apr	62.12	22.89	38,941	85.88	37,513.44	(23.76)	1,428	-	-
May	62.84	23.15	40,582	85.88	38,763.89	(23.04)	1,818	-	-
Jun	61.99	22.84	40,671	85.88	37,513.44	(23.89)	3,157	-	-
Jul	60.72	22.37	39,058	85.88	38,763.89	(25.16)	294	-	-
Aug	61.45	22.64	39,832	85.88	38,763.89	(24.43)	1,068	-	-
Sep	59.83	22.05	40,000	85.88	37,513.44	(26.05)	2,486	-	-
Oct	59.42	21.89	38,300	85.88	38,763.89	(26.46)	-464	-	-
Nov	58.60	21.59	38,512	85.88	37,513.44	(27.28)	998	-	-
Dec	57.66	21.25	36,736	85.88	38,763.89	(28.22)	-2,028	-	-
2026									
Jan	53.55	19.73	35,084	89.88	40,698.29	(36.33)	-5,615	-	-
Feb	55.08	20.29	35,424	89.88	36,759.74	(34.80)	-1,336	-	-
Mar	60.52	22.30	35,386	89.88	40,698.29	(29.36)	-5,312	-	-
Apr	65.01	23.96	41,030	89.88	39,385.44	(24.87)	1,644	-	-
May	65.77	24.23	42,759	89.88	40,698.29	(24.11)	2,061	-	-
Jun	64.88	23.91	42,852	89.88	39,385.44	(25.00)	3,467	-	-
Jul	63.55	23.41	41,153	89.88	40,698.29	(26.33)	455	-	-
Aug	64.32	23.70	41,969	89.88	40,698.29	(25.56)	1,271	-	-
Sep	62.62	23.07	42,145	89.88	39,385.44	(27.26)	2,760	-	-
Oct	62.19	22.91	40,354	89.88	40,698.29	(27.69)	-344	-	-
Nov	61.33	22.60	40,577	89.88	39,385.44	(28.55)	1,192	-	-
Dec	60.35	22.24	38,706	89.88	40,698.29	(29.53)	-1,992	-	-
2027									
Jan	55.92	20.61	36,981	70.00	36,270.00	(14.08)	711	-	-
Feb	57.52	21.19	37,339	70.00	32,760.00	(12.48)	4,579	-	-
Mar	63.20	23.29	37,300	70.00	36,270.00	(6.80)	1,030	-	-
Apr	67.90	25.02	43,248	70.00	35,100.00	(2.10)	8,148	-	-
May	68.68	25.31	45,071	70.00	36,270.00	(1.32)	8,801	-	-
Jun	67.76	24.97	45,169	70.00	35,100.00	(2.24)	10,069	-	-
Jul	66.37	24.45	43,378	70.00	36,270.00	(3.63)	7,108	-	-
Aug	67.17	24.75	44,238	70.00	36,270.00	(2.83)	7,968	-	-
Sep	65.40	24.10	44,424	70.00	35,100.00	(4.60)	9,324	-	-
Oct	64.95	23.93	42,536	70.00	36,270.00	(5.05)	6,266	-	-
Nov	64.05	23.60	42,771	70.00	35,100.00	(5.95)	7,671	-	-
Dec	63.02	23.22	40,799	70.00	36,270.00	(6.98)	4,529	-	-

10 Year Monthly Data

Year	Forecast (with Contestable Customers served by RES)			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 Requireme nt (MWh)	Demand (MW)	Energy (MWh)	Uncontrac ted Demand (MW)	Uncontrac ted Energy (MWh)	Demand (MW)	Energy (MWh)
2018									
Jan	64.27	22.10	32,705	68.88	30,542.69	(4.61)	2,163	-	-
Feb	66.25	22.78	35,175	68.88	27,586.94	(2.63)	7,588	-	-
Mar	70.01	24.08	34,173	68.88	30,542.69	1.13	3,630	-	-
Apr	74.72	25.70	38,497	68.88	29,557.44	5.84	8,940	-	-
May	79.92	27.48	39,875	68.88	30,542.69	11.04	9,332	-	-
Jun	77.33	26.59	38,340	68.88	29,557.44	8.45	8,783	-	-
Jul	70.67	24.30	35,626	68.88	30,542.69	1.79	5,083	-	-
Aug	75.64	26.01	38,549	68.88	30,542.69	6.76	8,006	-	-
Sep	73.64	25.32	38,711	68.88	29,557.44	4.76	9,154	-	-
Oct	73.13	25.15	37,066	68.88	30,542.69	4.25	6,523	-	-
Nov	72.12	24.80	37,271	68.88	29,557.44	3.24	7,714	-	-
Dec	70.97	24.41	35,553	68.88	30,542.69	2.09	5,010	-	-
2019									
Jan	65.98	24.31	35,585	68.88	30,542.69	(2.91)	5,043	-	-
Feb	67.86	25.00	35,930	68.88	27,586.94	(1.02)	8,343	-	-
Mar	74.56	27.47	35,891	68.88	30,542.69	5.68	5,348	-	-
Apr	80.10	29.51	41,616	68.88	29,557.44	11.22	12,058	-	-
May	81.03	29.86	43,369	68.88	30,542.69	12.15	12,826	-	-
Jun	79.94	29.45	43,463	68.88	29,557.44	11.06	13,906	-	-
Jul	78.30	28.85	41,740	68.88	30,542.69	9.42	11,198	-	-
Aug	79.25	29.20	42,568	68.88	30,542.69	10.37	12,025	-	-
Sep	77.15	28.43	42,746	68.88	29,557.44	8.27	13,188	-	-
Oct	76.62	28.23	40,931	68.88	30,542.69	7.74	10,388	-	-
Nov	75.56	27.84	41,157	68.88	29,557.44	6.68	11,599	-	-
Dec	74.35	27.40	39,259	68.88	30,542.69	5.47	8,716	-	-
2020									
Jan	68.77	25.34	37,524	77.88	34,895.09	(9.11)	2,629	-	-
Feb	70.73	26.06	37,887	77.88	32,643.79	(7.15)	5,244	-	-
Mar	77.72	28.64	37,848	77.88	34,895.09	(0.16)	2,953	-	-
Apr	83.50	30.77	43,884	77.88	33,769.44	5.62	10,114	-	-
May	84.46	31.12	45,733	77.88	34,895.09	6.58	10,838	-	-
Jun	83.32	30.70	45,833	77.88	33,769.44	5.44	12,063	-	-
Jul	81.61	30.07	44,016	77.88	34,895.09	3.73	9,121	-	-
Aug	82.60	30.44	44,888	77.88	34,895.09	4.72	9,993	-	-
Sep	80.42	29.63	45,077	77.88	33,769.44	2.54	11,307	-	-
Oct	79.87	29.43	43,161	77.88	34,895.09	1.99	8,266	-	-
Nov	78.76	29.02	43,400	77.88	33,769.44	0.88	9,630	-	-
Dec	77.50	28.56	41,398	77.88	34,895.09	(0.38)	6,503	-	-
2021									
Jan	71.69	26.41	39,586	77.88	34,895.09	(6.19)	4,691	-	-

POWER SUPPLY PROCUREMENT PLAN

Feb	73.73	27.17	39,969	77.88	31,518.14	(4.15)	8,451	-	-
Mar	81.01	29.85	39,927	77.88	34,895.09	3.13	5,032	-	-
Apr	87.04	32.07	46,295	77.88	33,769.44	9.16	12,526	-	-
May	88.04	32.44	48,246	77.88	34,895.09	10.16	13,351	-	-
Jun	86.85	32.00	48,351	77.88	33,769.44	8.97	14,582	-	-
Jul	85.07	31.35	46,434	77.88	34,895.09	7.19	11,539	-	-
Aug	86.10	31.73	47,355	77.88	34,895.09	8.22	12,460	-	-
Sep	83.83	30.89	47,554	77.88	33,769.44	5.95	13,784	-	-
Oct	83.25	30.67	45,533	77.88	34,895.09	5.37	10,638	-	-
Nov	82.10	30.25	45,785	77.88	33,769.44	4.22	12,015	-	-
Dec	80.79	29.77	43,673	77.88	34,895.09	2.91	8,778	-	-
2022									
Jan	74.72	27.53	41,779	81.88	36,829.49	(7.16)	4,949	-	-
Feb	76.86	28.32	42,183	81.88	33,265.34	(5.02)	8,918	-	-
Mar	84.45	31.12	42,139	81.88	36,829.49	2.57	5,309	-	-
Apr	90.72	33.43	48,859	81.88	35,641.44	8.84	13,218	-	-
May	91.77	33.82	50,919	81.88	36,829.49	9.89	14,089	-	-
Jun	90.54	33.36	51,029	81.88	35,641.44	8.66	15,388	-	-
Jul	88.68	32.67	49,006	81.88	36,829.49	6.80	12,177	-	-
Aug	89.75	33.07	49,978	81.88	36,829.49	7.87	13,148	-	-
Sep	87.38	32.20	50,188	81.88	35,641.44	5.50	14,546	-	-
Oct	86.78	31.97	48,055	81.88	36,829.49	4.90	11,225	-	-
Nov	85.58	31.53	48,321	81.88	35,641.44	3.70	12,679	-	-
Dec	84.21	31.03	46,092	81.88	36,829.49	2.33	9,263	-	-
2023									
Jan	77.89	28.70	44,111	81.88	36,829.49	(3.99)	7,281	-	-
Feb	80.11	29.52	44,538	81.88	33,265.34	(1.77)	11,273	-	-
Mar	88.03	32.43	44,491	81.88	36,829.49	6.15	7,662	-	-
Apr	94.57	34.84	51,587	81.88	35,641.44	12.69	15,945	-	-
May	95.66	35.25	53,761	81.88	36,829.49	13.78	16,932	-	-
Jun	94.37	34.77	53,878	81.88	35,641.44	12.49	18,237	-	-
Jul	92.44	34.06	51,742	81.88	36,829.49	10.56	14,913	-	-
Aug	93.56	34.47	52,768	81.88	36,829.49	11.68	15,938	-	-
Sep	91.09	33.56	52,989	81.88	35,641.44	9.21	17,348	-	-
Oct	90.46	33.33	50,737	81.88	36,829.49	8.58	13,908	-	-
Nov	89.20	32.87	51,018	81.88	35,641.44	7.32	15,377	-	-
Dec	87.78	32.34	48,665	81.88	36,829.49	5.90	11,836	-	-
2024									
Jan	81.19	29.92	46,592	85.88	38,763.89	(4.69)	7,828	-	-
Feb	83.51	30.77	47,044	85.88	36,262.99	(2.37)	10,781	-	-
Mar	91.76	33.81	46,994	85.88	38,763.89	5.88	8,230	-	-
Apr	98.58	36.32	54,489	85.88	37,513.44	12.70	16,975	-	-
May	99.72	36.74	56,786	85.88	38,763.89	13.84	18,022	-	-
Jun	98.37	36.25	56,909	85.88	37,513.44	12.49	19,396	-	-
Jul	96.35	35.50	54,653	85.88	38,763.89	10.47	15,889	-	-
Aug	97.52	35.93	55,736	85.88	38,763.89	11.64	16,972	-	-
Sep	94.95	34.98	55,970	85.88	37,513.44	9.07	18,457	-	-
Oct	94.29	34.74	53,592	85.88	38,763.89	8.41	14,828	-	-
Nov	92.98	34.26	53,888	85.88	37,513.44	7.10	16,375	-	-
Dec	91.50	33.71	51,403	85.88	38,763.89	5.62	12,639	-	-

POWER SUPPLY PROCUREMENT PLAN

2025									
Jan	84.63	31.18	49,233	85.88	38,763.89	(1.25)	10,469	-	-
Feb	87.05	32.07	49,710	85.88	35,012.54	1.17	14,697	-	-
Mar	95.65	35.24	49,658	85.88	38,763.89	9.77	10,894	-	-
Apr	102.76	37.86	57,577	85.88	37,513.44	16.88	20,064	-	-
May	103.94	38.30	60,004	85.88	38,763.89	18.06	21,240	-	-
Jun	102.54	37.78	60,134	85.88	37,513.44	16.66	22,621	-	-
Jul	100.44	37.01	57,750	85.88	38,763.89	14.56	18,986	-	-
Aug	101.65	37.46	58,895	85.88	38,763.89	15.77	20,131	-	-
Sep	98.97	36.47	59,142	85.88	37,513.44	13.09	21,629	-	-
Oct	98.29	36.21	56,629	85.88	38,763.89	12.41	17,865	-	-
Nov	96.92	35.71	56,942	85.88	37,513.44	11.04	19,429	-	-
Dec	95.38	35.14	54,316	85.88	38,763.89	9.50	15,552	-	-
2026									
Jan	88.22	32.50	52,044	89.88	40,698.29	(1.66)	11,346	-	-
Feb	90.74	33.43	52,548	89.88	36,759.74	0.86	15,788	-	-
Mar	99.70	36.74	52,493	89.88	40,698.29	9.82	11,794	-	-
Apr	107.11	39.47	60,864	89.88	39,385.44	17.23	21,479	-	-
May	108.35	39.92	63,430	89.88	40,698.29	18.47	22,731	-	-
Jun	106.89	39.38	63,568	89.88	39,385.44	17.01	24,182	-	-
Jul	104.69	38.58	61,047	89.88	40,698.29	14.81	20,349	-	-
Aug	105.96	39.04	62,257	89.88	40,698.29	16.08	21,559	-	-
Sep	103.16	38.01	62,519	89.88	39,385.44	13.28	23,133	-	-
Oct	102.45	37.75	59,862	89.88	40,698.29	12.57	19,164	-	-
Nov	101.03	37.23	60,193	89.88	39,385.44	11.15	20,808	-	-
Dec	99.42	36.63	57,417	89.88	40,698.29	9.54	16,719	-	-
2027									
Jan	91.96	33.88	55,036	70.00	36,270.00	21.96	18,766	-	-
Feb	94.58	34.85	55,570	70.00	32,760.00	24.58	22,810	-	-
Mar	103.92	38.29	55,511	70.00	36,270.00	33.92	19,241	-	-
Apr	111.65	41.14	64,364	70.00	35,100.00	41.65	29,264	-	-
May	112.94	41.61	67,077	70.00	36,270.00	42.94	30,807	-	-
Jun	111.42	41.05	67,223	70.00	35,100.00	41.42	32,123	-	-
Jul	109.13	40.21	64,558	70.00	36,270.00	39.13	28,288	-	-
Aug	110.45	40.70	65,837	70.00	36,270.00	40.45	29,567	-	-
Sep	107.54	39.62	66,114	70.00	35,100.00	37.54	31,014	-	-
Oct	106.79	39.35	63,304	70.00	36,270.00	36.79	27,034	-	-
Nov	105.31	38.80	63,654	70.00	35,100.00	35.31	28,554	-	-
Dec	103.63	38.18	60,719	70.00	36,270.00	33.63	24,449	-	-