

MALVAR ENERZONE CORPORATION
POWER SUPPLY PROCUREMENT PLAN

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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- X. Annex Monthly Data

INTRODUCTION

DISTRIBUTION UTILITIES PROFILE

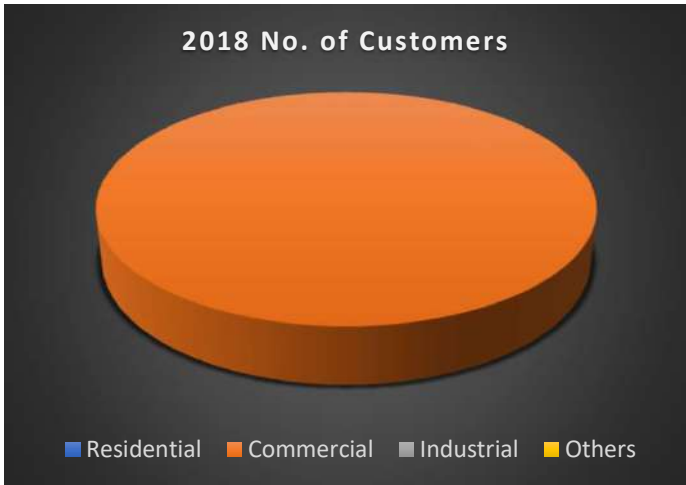
DU's Franchise MAP

Malvar Enerzone Corporation
 Sole power distribution utility inside the Light Industry and Science Park IV.
 The power distribution system shall have a substation with 2 - 50 MVA, 69kV power transformer. And the 34.5kV distribution system shall be composed of insulated overhead feederlines.
 The substation started construction this March 2019 and expected to be finished by May of 2020.
 Currently, there are 2 customers that were temporarily source through the BATELEC II 13.2kV primary lines.
 MalvEZ is currently processing its membership with IEMOP. MalvEZ plan to procure power from WESM for the next 2 years.



Number of Customer	ACTUAL		FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
Residential						5	10	20	30	40	50	60
Commercial	2	2	3	4	5	12	12	12	12	12	12	12
Industrial	0	1	4	24	44	53	53	53	53	53	53	53
Others	0	1	2	4	4	4	4	4	4	4	4	4
Contestable Customers served by RES					3	6	9	12	15	18	21	
Total (Captive)	2	2	5	24	50	71	81	91	101	111	121	

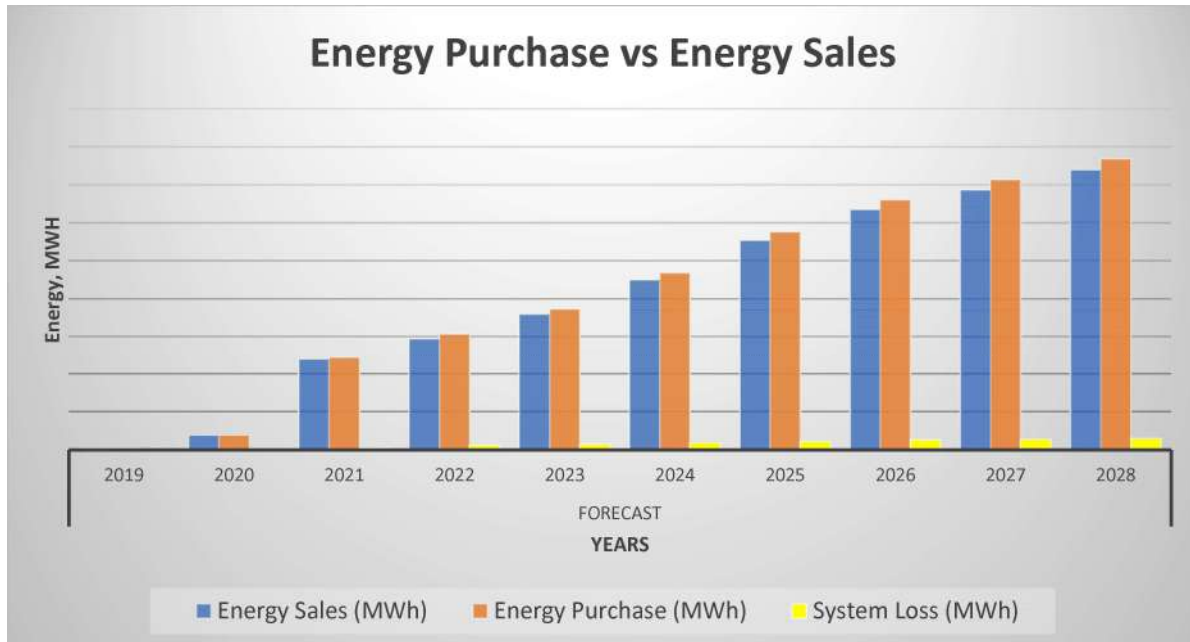
MALVEZ operation started only on April 2018.



ENERGY SALES AND PURCHASE

ENERGY SALES AND PURCHASE	HISTORICAL									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Energy Sales (MWh)										19
Energy Purchase (MWh)										25
System Loss (MWh)										6

ENERGY SALES AND PURCHASE	FORECAST									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Energy Sales (MWh)	287	3782	23810	29444	35845	45001	55345	63449	68604	73900
Energy Purchase (MWh)	299	3835	24266	30621	37278	46801	57558	65987	71349	76856
System Loss (MWh)	11	53	456	1178	1434	1800	2214	2538	2744	2956

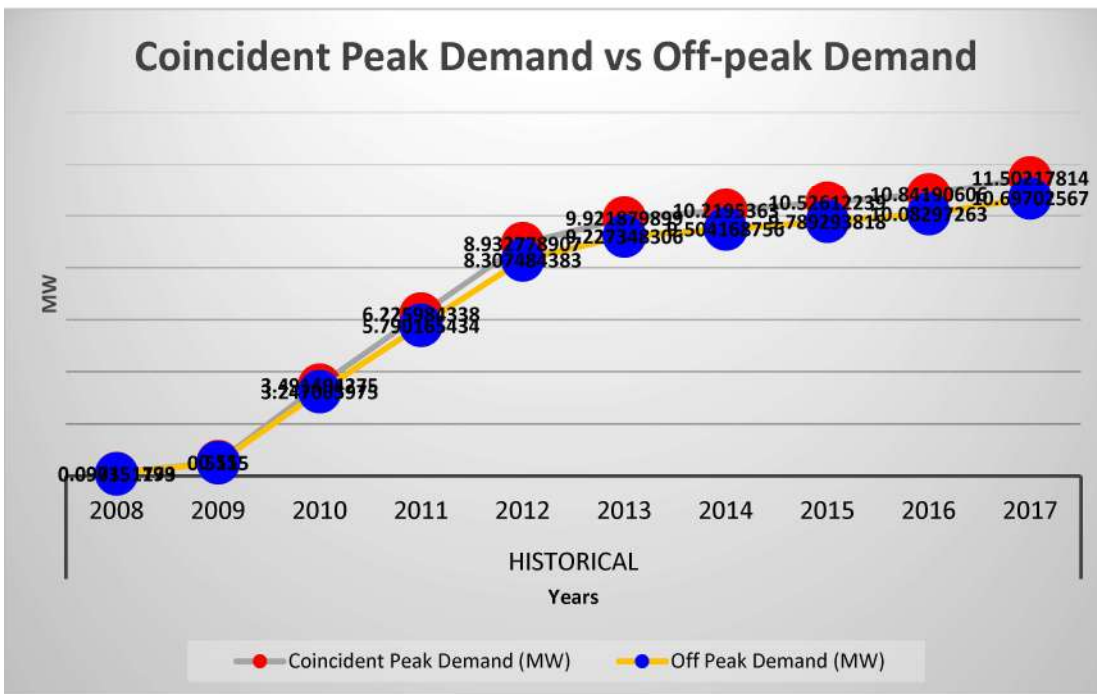


At year 2020, MalvEZ has yet to finish the facility of the substation, thus power is still connected through BATELEC II 13.2kV line. Also year 2019 is expected to be the first year of construction for industrial customers inside LISP IV.

DEMAND

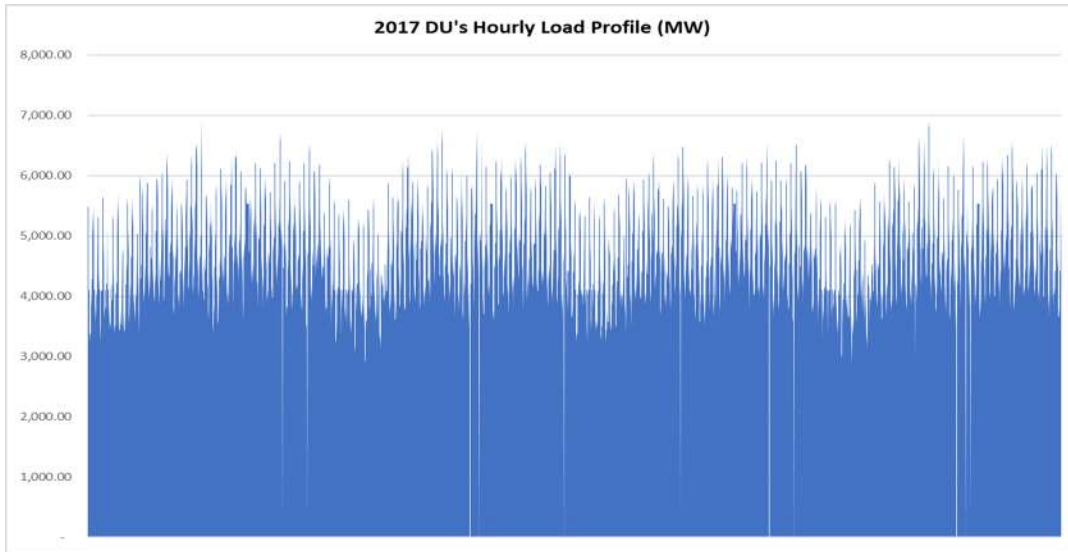
Demand	HISTORICAL									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Coincident Peak Demand (MW)										0.052
Off Peak Demand (MW)										0.049

Demand	FORECAST									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Coincident Peak Demand (MW)	0.097	0.55	3.491	6.226	8.933	9.922	10.22	10.53	10.84	11.5
Off Peak Demand (MW)	0.09	0.512	3.247	5.79	8.307	9.227	9.504	9.789	10.08	10.7

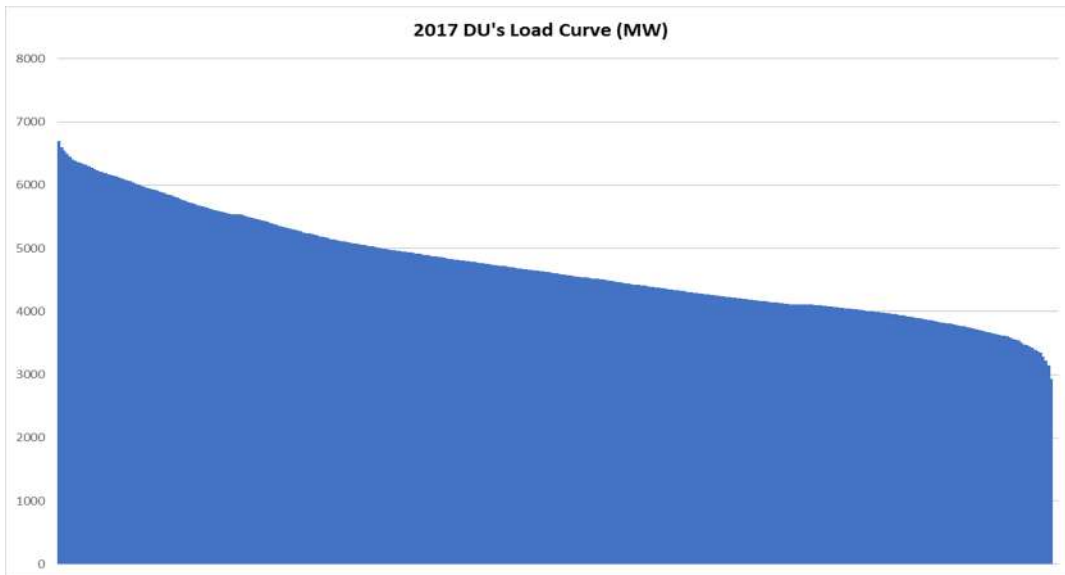


Malvar Enerzone Load has only 2 customers during the start of operations.

LOAD PROFILE AND LOAD DURATION CURVE



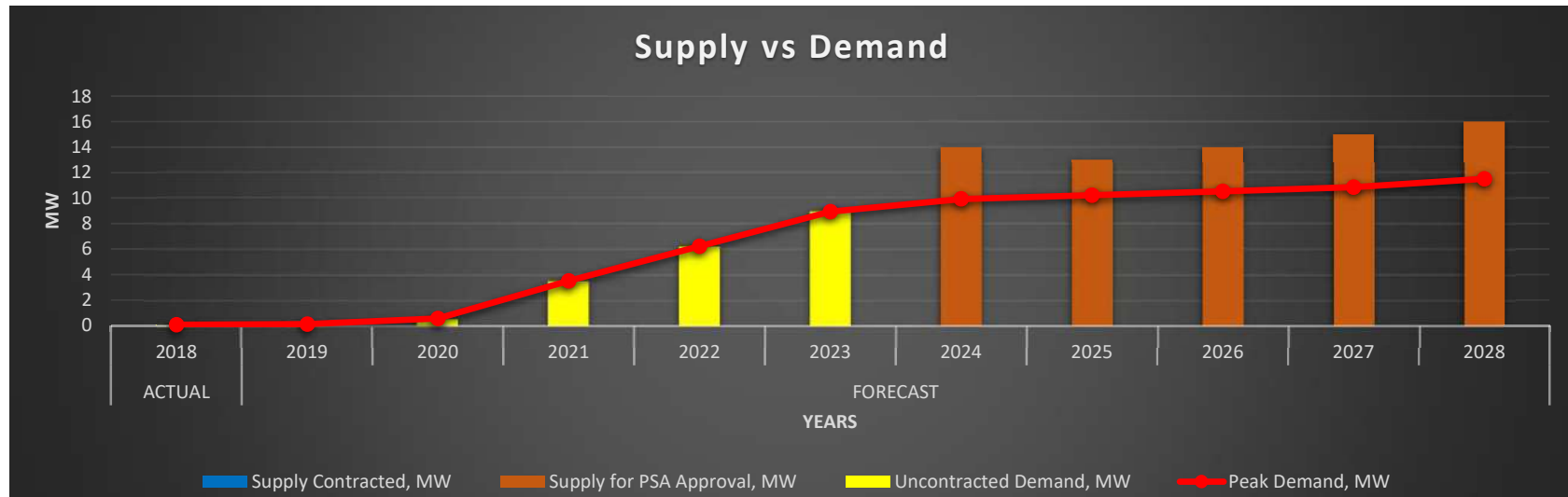
GRAPH PROVIDED HERE IS SAMPLE



MALVEZ has no facilities yet to secure data for the load profiles

MIXSUPPLY VS DEMAND AND THE OPTIMAL SUPPLY

Supply Demand	ACTUAL	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Peak Demand, MW	0.052	0.097152	0.55	3.491404	6.225984	8.932779	9.92188	10.21954	10.52612	10.84191	11.50218
Supply Contracted, MW	0	0	0	0	0	0	0	0	0	0	0
Generation Plant Name 1											
Generation Plant Name 2											
Generation Plant Name 3											
Supply for PSA Approval, MW	0	0	0	0	0	0	14	13	14	15	16
Generation Plant Name 1							14	13	14	15	16
Generation Plant Name 2											
Generation Plant Name 3											
Uncontracted Demand, MW	0.052	0.097152	0.55	3.491404	6.225984	8.932779	0	0	0	0	0



DISTRIBUTION IMPACT STUDY

There is no assessment yet for the distribution impact since Malvez Substation is under construction.

POWER SUPPLY PROCUREMENT PLAN

Jan	6.11	5.50	1,706.26						
Feb	6.20	5.58	2,251.60						
Mar	6.55	5.90	1,923.04						
Apr	6.97	6.27	2,123.58						
May	7.44	6.70	2,508.59						
Jun	7.23	6.78	2,691.05						
Jul	7.32	6.58	2,633.77						
Aug	7.20	6.88	2,819.72						
Sep	7.10	6.95	2,652.87						
Oct	7.49	7.00	2,868.25						
Nov	7.10	6.94	2,807.57						
Dec	7.01	6.78	2,457.32						
2023									
Jan	8.76	7.89	1,894.61						
Feb	8.90	8.01	2,691.77						
Mar	9.40	8.46	2,211.40						
Apr	9.99	9.00	2,504.53						
May	10.68	9.61	3,067.34						
Jun	10.82	9.73	3,334.21						
Jul	10.50	9.45	3,250.42						
Aug	10.97	9.88	3,522.18						
Sep	11.08	9.98	3,278.21						
Oct	11.17	10.05	3,593.00						
Nov	11.06	9.96	3,504.42						
Dec	10.80	9.72	2,992.42						
2024									
Jan	9.73	8.76	2,513.24	10.10	3,900	0.37	1,386.82	10	3,900
Feb	9.88	8.90	3,415.76	10.63	3,900	0.74	484.30	11	3,900
Mar	10.44	9.40	2,871.91	11.16	3,900	0.72	1,028.15	11	3,900
Apr	11.10	9.99	3,203.79	11.69	3,900	0.59	696.28	12	3,900
May	11.86	10.68	3,840.97	12.22	3,900	0.36	59.09	12	3,900
Jun	12.01	10.81	4,143.09	12.22	3,900	0.21	243.03	12	3,900
Jul	11.66	10.49	4,048.24	12.22	3,900	0.56	148.18	12	3,900
Aug	12.19	10.97	4,355.93	14.12	3,900	1.93	455.86	14	3,900
Sep	12.31	11.08	4,079.72	12.22	3,900	0.09	179.65	12	3,900
Oct	14.00	11.16	4,436.12	11.96	3,900	0.44	536.06	12	3,900
Nov	12.29	11.06	4,335.82	11.69	3,900	0.59	435.75	12	3,900
Dec	12.00	10.80	3,756.15	11.16	3,900	0.84	143.91	11	3,900
2025									
Jan	10.02	9.02	3,338.19	10.10	4,797	0.07	1,458.34	10	4,797
Feb	10.18	9.16	4,267.74	10.63	4,797	0.45	528.79	11	4,797
Mar	10.76	9.68	3,707.60	11.16	4,797	0.41	1,088.93	11	4,797
Apr	11.43	10.29	4,049.42	11.69	4,797	0.26	747.12	12	4,797
May	12.22	11.00	4,705.68	12.22	4,797	0.01	90.85	12	4,797
Jun	12.37	11.14	5,016.85	12.22	4,797	0.15	220.32	12	4,797
Jul	12.01	10.81	4,919.16	12.22	4,797	0.21	122.63	12	4,797
Aug	12.56	11.30	5,236.06	13.48	4,797	0.93	439.53	13	4,797
Sep	12.68	11.41	4,951.58	12.22	4,797	0.46	155.05	12	4,797
Oct	13.00	11.50	5,318.65	11.96	4,797	0.82	522.12	12	4,797
Nov	12.66	11.39	5,215.35	11.69	4,797	0.96	418.81	12	4,797

POWER SUPPLY PROCUREMENT PLAN

Dec	12.36	11.12	4,618.32	11.16	4,797	1.20	178.21	11	4,797
2026									
Jan	10.33	9.29	3,975.38	10.60	5,499	0.28	1,523.50	11	5,499
Feb	10.49	9.44	4,932.77	11.16	5,499	0.67	566.12	11	5,499
Mar	11.08	9.97	4,355.86	11.72	5,499	0.64	1,143.03	12	5,499
Apr	11.78	10.60	4,707.91	12.28	5,499	0.50	790.98	12	5,499
May	12.58	11.33	5,383.82	12.83	5,499	0.25	115.06	13	5,499
Jun	12.75	11.47	5,704.31	12.83	5,499	0.09	205.43	13	5,499
Jul	12.37	11.13	5,603.69	12.83	5,499	0.47	104.81	13	5,499
Aug	12.93	11.64	5,930.09	14.16	5,499	1.22	431.20	14	5,499
Sep	13.06	11.76	5,637.08	12.83	5,499	0.23	138.20	13	5,499
Oct	14.00	11.84	6,015.15	12.56	5,499	0.60	516.27	13	5,499
Nov	13.04	11.73	5,908.75	12.28	5,499	0.76	409.87	12	5,499
Dec	12.73	11.46	5,293.85	11.72	5,499	1.01	205.04	12	5,499
2027									
Jan	10.64	9.57	4,365.73	11.13	5,945.71	0.50	1,579.98	11	5,946
Feb	10.80	9.72	5,351.79	11.72	5,945.71	0.92	593.92	12	5,946
Mar	11.41	10.27	4,757.60	12.30	5,945.71	0.89	1,188.11	12	5,946
Apr	12.13	10.92	5,120.19	12.89	5,945.71	0.76	825.52	13	5,946
May	12.96	11.67	5,816.35	13.48	5,945.71	0.51	129.36	13	5,946
Jun	13.13	11.82	6,146.44	13.48	5,945.71	0.35	200.73	13	5,946
Jul	12.74	11.47	6,042.81	13.48	5,945.71	0.74	97.10	13	5,946
Aug	13.32	11.99	6,378.97	14.86	5,945.71	1.54	433.26	15	5,946
Sep	13.45	12.11	6,077.20	13.48	5,945.71	0.02	131.49	13	5,946
Oct	15.00	12.20	6,466.59	13.18	5,945.71	0.37	520.88	13	5,946
Nov	13.43	12.08	6,357.00	12.89	5,945.71	0.54	411.29	13	5,946
Dec	13.11	11.80	5,723.68	12.30	5,945.71	0.81	222.03	12	5,946
2028									
Jan	10.95	9.86	4,766.57	11.69	6,404.68	0.74	1,638.11	12	6,405
Feb	11.13	10.01	5,782.16	12.30	6,404.68	1.18	622.51	12	6,405
Mar	11.75	10.58	5,170.18	12.92	6,404.68	1.17	1,234.50	13	6,405
Apr	12.49	11.25	5,543.63	13.54	6,404.68	1.04	861.05	14	6,405
May	13.35	12.02	6,260.64	14.15	6,404.68	0.80	144.04	14	6,405
Jun	13.52	12.17	6,600.62	14.15	6,404.68	0.63	195.94	14	6,405
Jul	13.12	11.81	6,493.88	14.15	6,404.68	1.03	89.20	14	6,405
Aug	13.72	12.35	6,840.12	15.61	6,404.68	1.89	435.44	16	6,405
Sep	13.86	12.47	6,529.30	14.15	6,404.68	0.29	124.62	14	6,405
Oct	16.00	12.56	6,930.35	13.84	6,404.68	2.16	525.68	14	6,405
Nov	13.83	12.45	6,817.49	13.54	6,404.68	0.29	412.81	14	6,405
Dec	13.51	12.16	6,165.20	13.54	6,404.68	0.03	239.48	14	6,405