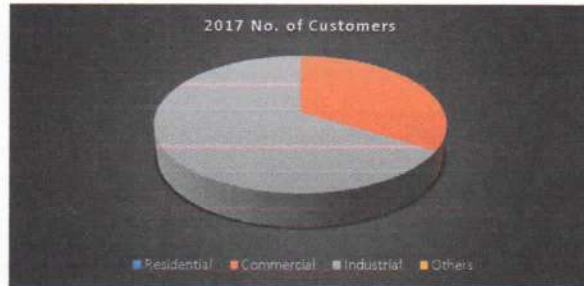


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DU's Franchise MAP

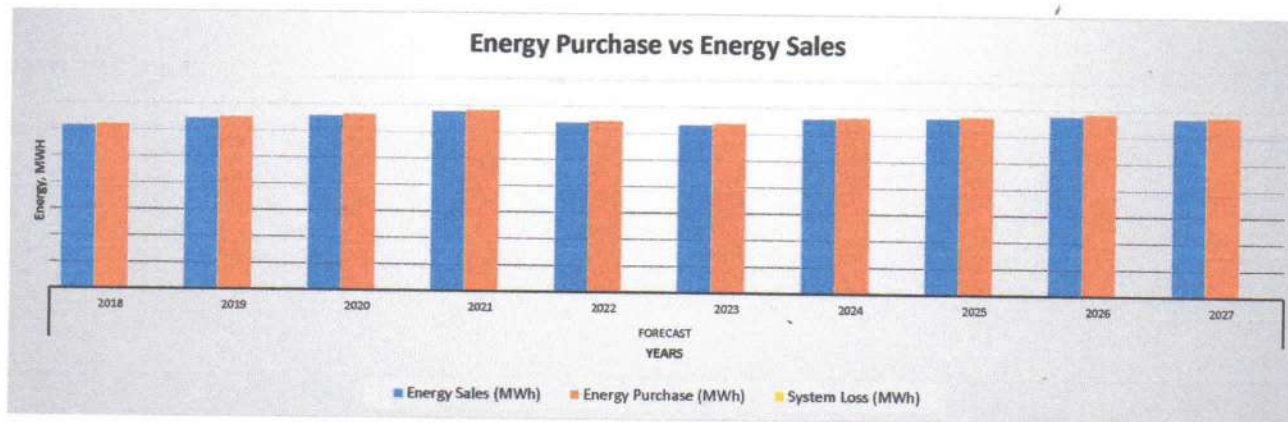
In year 2017, MEZ recorded the max demand at 21,116 kW and lowest 19,854 kW (8% commercial and 92% industrial). As of now, MEZ has no opportunity of growth in terms of number of customer since the franchise lot area has been fully occupied .



ENERGY SALES AND PURCHASE

ENERGY SALES AND PURCHASE	HISTORICAL									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Energy Sales (MWh)	141,225.00	117,014.00	138,170.73	132,971.04	122,704.06	118,298.08	123,250.16	120,563.94	111,543.46	66,992.70
Energy Purchase (MWh)	142,426.00	117,996.00	139,318.00	134,805.00	124,059.00	119,500.00	124,560.36	121,336.00	112,705.66	67,638.01
System Loss (MWh)	1,241.45	1,022.16	1,188.39	1,876.91	1,398.70	1,202.79	1,310.20	771.76	1,162.14	645.31

ENERGY SALES AND PURCHASE	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Energy Sales (MWh)	61,494.64	64,566.67	65,795.48	67,767.73	63,952.26	63,337.86	65,869.21	66,527.36	67,856.83	67,178.80
Energy Purchase (MWh)	62,115.80	65,218.86	66,460.08	68,452.25	64,598.25	63,977.63	66,534.56	67,199.36	68,542.25	67,857.38
System Loss (MWh)	621.16	652.19	664.60	684.52	645.98	639.78	665.35	671.99	685.42	678.57

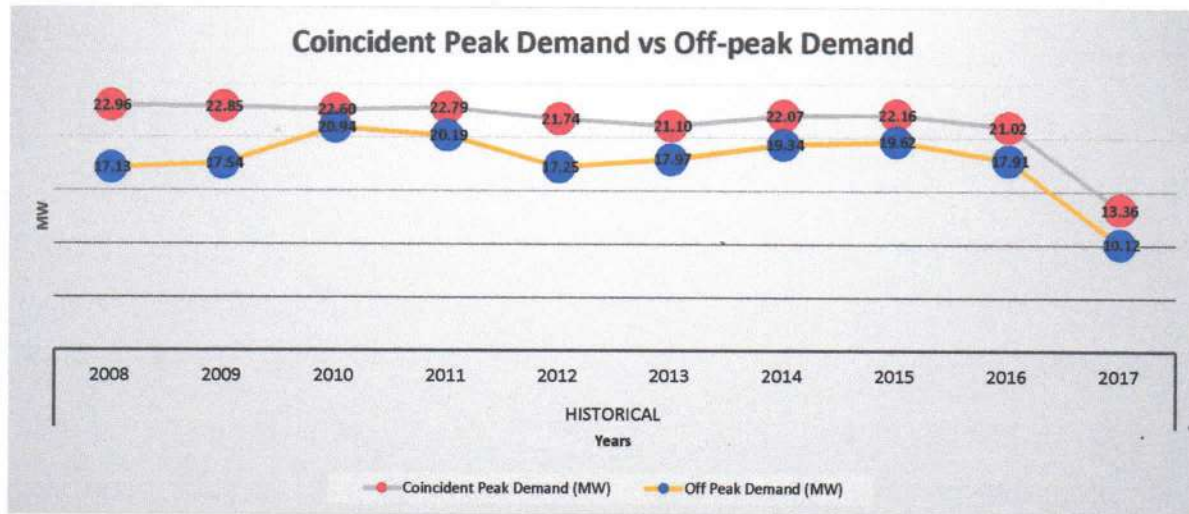


Upon the implementation of Retail Competition and Open Access (RCOA), on Jan 26, 2017 our 6 contestable customer are to switch in their respective Retail Electricity Supplier (RES). Thus, our 2017 energy purchase has been decrease by almost 50%.

DEMAND

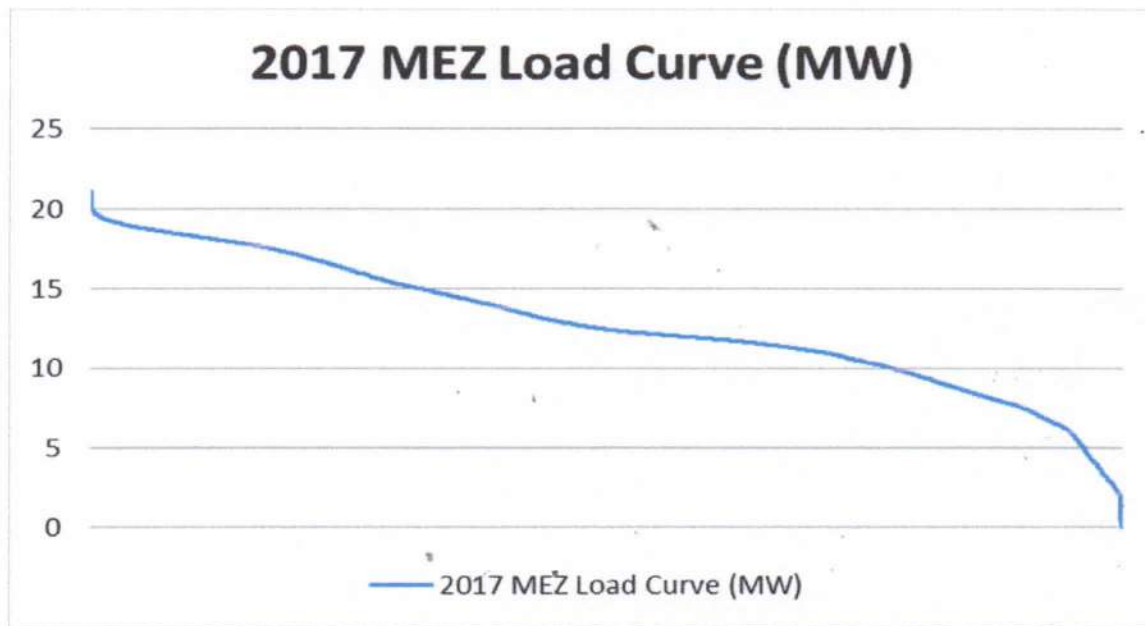
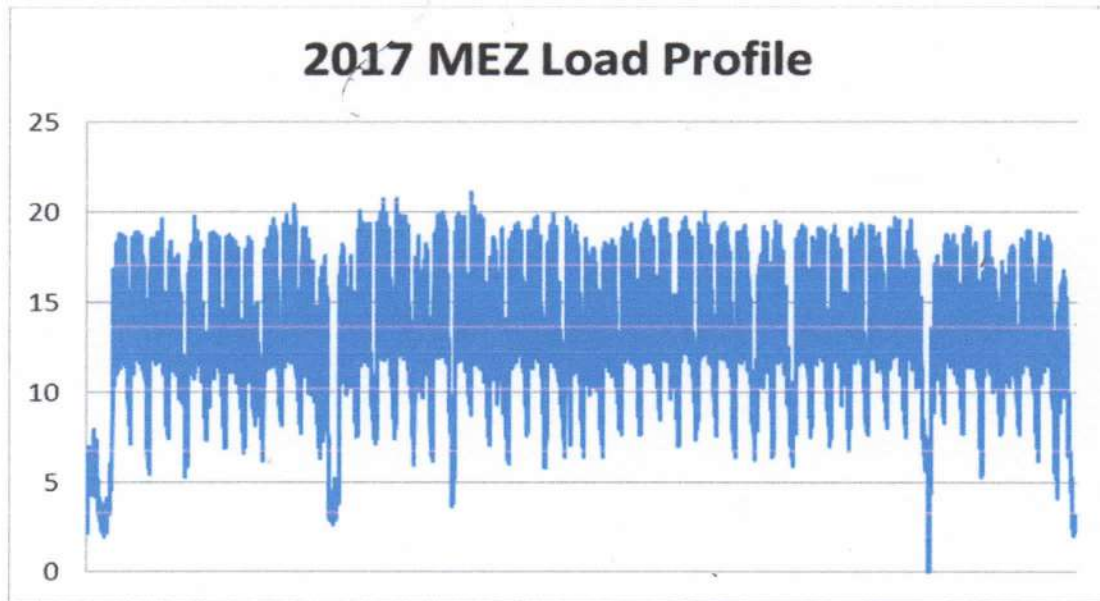
Demand	HISTORICAL									
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Coincident Peak Demand (MW)	22.96	22.85	22.60	22.79	21.74	21.10	22.07	22.16	21.02	13.36
Off Peak Demand (MW)	17.13	17.54	20.94	20.19	17.25	17.97	19.34	19.62	17.91	10.12

Demand	FORECAST									
	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Coincident Peak Demand (MW)	13.59	13.93	14.08	13.59	13.61	13.58	13.60	13.59	13.61	13.45
Off Peak Demand (MW)	9.43	9.74	9.46	9.77	9.78	9.86	9.69	9.71	9.78	9.97



With the entry of RCOA our captive demand lowered to 14MW.

LOAD PROFILE AND LOAD DURATION CURVE

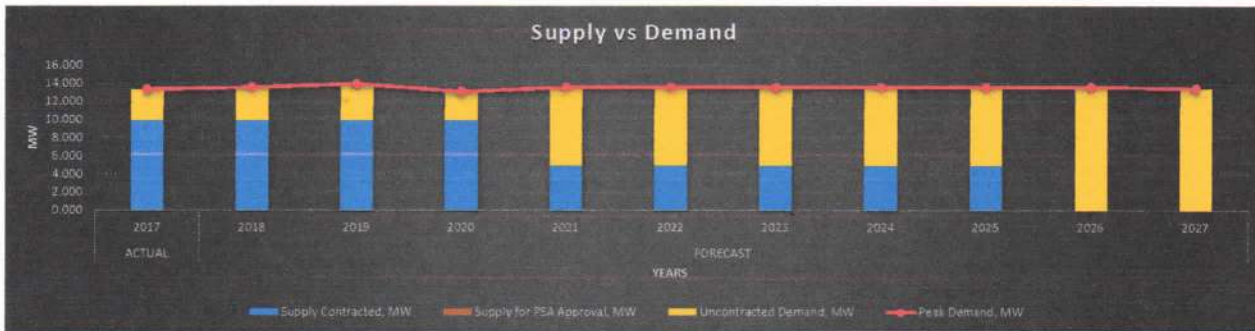


Brief highlight:

Load Profile shows the total demand of MEZ including the controllable customer that serve by RES.

MIXSUPPLY VS DEMAND AND THE OPTIMAL SUPPLY

Supply Demand	ACTUAL	FORECAST									
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Peak Demand, MW	13.356	13.593	13.927	13.082	13.591	13.605	13.576	13.598	13.587	13.614	13.448
Supply Contracted, MW	9.914	9.914	9.914	9.914	4.957	4.957	4.957	4.957	4.957	0.000	0.000
SNAP	4.957	4.957	4.957	4.957	0.000	0.000	0.000	0.000	0.000	0.000	0.000
GCGI	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	4.957	0.000	0.000
Supply for PSA Approval, MW	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Generation Plant Name 1											
Generation Plant Name 2											
Generation Plant Name 3											
Uncontracted Demand, MW	3.442	3.679	4.013	3.168	8.634	8.648	8.619	8.641	8.630	13.614	13.448



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)
SNAP	AbotizPower	50%	Sep-15	Sep-20	4.957	21,711.66	Mid-merit	Grid	IPP	Active	Hydro	360	360
GCGI	First Gen	100%	Sep-15	Sep-25	4.957	43,423.32	Base	Grid	IPP	Active	Geothermal	112	112

SNABotizPower (SNAP) and Green Core Geothermal Inc. (GCGI) are our power suppliers both renewable power plants. SNAP is a hydro power plant, specifically the Magat Plant in Luzon which has a 360 installed capacity. GCGI is a geothermal power plant with a installed capacity of 112 MW which located at Leyte. GCGI is our base supply with the original contract of 10 MW with 100% load factor while the SNAP is our Mid-merit supply also a 10 MW contract but only 50% load factor. However, upon the implementation of Retail Competition and Open Access (RCOA) were our contestable customers switches into their respective Retail Electricity Supplier (RES) both contracts are decreased into 4.957 MW with same load factor with the guidance of the carve out provision in the contract. Wholesale Electricity Spot Market (WESM) serve as our supplier during peak demand. MEZ will intend to procure the non contracted demand in WESM.

DISTRIBUTION IMPACT STUDY

Mactan Enerzone Corporation has a total capacity of 58 MW which consist of two power transformer 33 MVA and 25 MVA. As shown below only 33 MVA has been energize as of today with total load of 68% only. MEZ has only 3 distribution lines namely Feeder 1, Feeder 2 and Feeder 3 which has a load of 55%, 63%, and 67%, respectively. Therefore, MEZ could say that always ready to cater load increase anytime. But, MEZ has been limited its growth due to the franchise area has been fully occupied.

% SUBSTATION LOADING



SCHEDULE OF CSP

[illegible]

10 Year Monthly Data

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)
2018									
Jan	10.29	8.20	4,365.68	9.91	5,532.01	0.38	1,166.33	-	-
Feb	11.05	8.30	5,344.14	9.91	5,532.01	1.14	187.88	-	-
Mar	11.68	8.67	5,101.20	9.91	4,996.66	1.76	104.54	-	-
Apr	10.22	8.60	4,866.39	9.91	5,532.01	0.31	665.62	-	-
May	12.83	9.20	5,543.48	9.91	5,353.56	2.92	189.92	-	-
Jun	13.59	9.43	5,794.33	9.91	5,532.01	3.68	262.32	-	-
Jul	11.70	8.90	5,055.41	9.91	5,353.56	1.79	298.15	-	-
Aug	11.43	9.00	5,525.61	9.91	5,532.01	1.51	6.41	-	-
Sep	10.95	8.70	5,214.00	9.91	5,532.01	1.04	318.02	-	-
Oct	11.34	9.30	5,144.09	9.91	5,353.56	1.43	209.47	-	-
Nov	11.93	9.20	5,237.69	9.91	5,532.01	2.02	294.32	-	-
Dec	11.46	9.40	4,869.23	9.91	5,353.56	1.55	484.33	-	-
2019									
Jan	10.81	8.80	4,583.97	9.91	5,532.01	0.90	948.04	-	-
Feb	11.60	8.90	5,611.34	9.91	5,532.01	1.69	79.33	-	-
Mar	11.90	9.00	5,356.26	9.91	5,175.11	1.98	181.15	-	-
Apr	10.57	9.21	5,109.71	9.91	5,532.01	0.65	422.30	-	-
May	13.04	9.30	5,820.66	9.91	5,413.04	3.13	407.62	-	-
Jun	13.93	9.74	6,084.05	9.91	5,532.01	4.01	552.04	-	-
Jul	12.29	9.40	5,308.18	9.91	5,413.04	2.37	104.87	-	-
Aug	12.00	9.10	5,801.89	9.91	5,532.01	2.08	269.87	-	-
Sep	11.50	8.88	5,474.70	9.91	5,532.01	1.58	57.32	-	-
Oct	11.91	8.91	5,401.30	9.91	5,413.04	1.99	11.75	-	-
Nov	12.32	9.30	5,499.58	9.91	5,532.01	2.41	32.43	-	-
Dec	11.83	9.29	5,112.69	9.91	5,413.04	1.92	300.35	-	-
2020									
Jan	11.02	8.80	4,671.28	9.91	5,532.01	1.10	860.73	-	-
Feb	11.82	8.70	5,718.22	9.91	5,532.01	1.91	186.21	-	-
Mar	12.12	9.00	5,458.28	9.91	5,056.14	2.21	402.14	-	-
Apr	10.77	8.70	5,207.04	9.91	5,532.01	0.85	324.97	-	-
May	12.87	9.00	5,931.53	9.91	5,353.56	2.96	577.97	-	-
Jun	13.08	9.46	6,199.94	9.91	5,532.01	3.17	667.92	-	-
Jul	12.52	9.31	5,409.29	9.91	5,353.56	2.61	55.73	-	-
Aug	12.23	9.20	5,912.40	9.91	5,532.01	2.31	380.39	-	-
Sep	11.72	9.00	5,578.98	9.91	5,532.01	1.80	46.96	-	-
Oct	12.13	8.90	5,504.18	4.96	3,569.04	7.18	1,935.14	-	-
Nov	12.55	9.20	5,604.33	4.96	3,688.01	7.60	1,916.33	-	-
Dec	12.06	9.30	5,210.07	4.96	3,569.04	7.10	1,641.03	-	-
2021									
Jan	11.35	9.30	4,811.42	4.96	3,688.01	6.39	1,123.41	-	-
Feb	12.18	9.34	5,889.77	4.96	3,688.01	7.22	2,201.76	-	-
Mar	12.49	9.30	5,622.03	4.96	3,331.10	7.53	2,290.93	-	-
Apr	11.09	9.20	5,363.25	4.96	3,688.01	6.13	1,675.24	-	-
May	13.26	9.50	6,109.47	4.96	3,569.04	8.30	2,540.43	-	-
Jun	13.59	9.77	6,385.93	4.96	3,688.01	8.63	2,697.93	-	-
Jul	12.90	9.40	5,571.56	4.96	3,569.04	7.94	2,002.52	-	-
Aug	12.59	9.43	6,089.77	4.96	3,688.01	7.64	2,401.76	-	-
Sep	12.07	9.20	5,746.35	4.96	3,688.01	7.11	2,058.34	-	-
Oct	12.50	9.10	5,669.31	4.96	3,569.04	7.54	2,100.27	-	-
Nov	12.93	9.20	5,772.46	4.96	3,688.01	7.97	2,084.46	-	-
Dec	12.42	9.24	5,366.38	4.96	3,569.04	7.47	1,797.34	-	-
2022									
Jan	10.71	9.00	4,540.31	4.96	3,688.01	5.75	852.30	-	-
Feb	11.49	9.23	5,557.90	4.96	3,688.01	6.54	1,869.89	-	-
Mar	11.78	9.20	5,305.25	4.96	3,331.10	6.83	1,974.14	-	-
Apr	10.47	9.10	5,061.05	4.96	3,688.01	5.51	1,373.04	-	-
May	12.51	9.40	5,765.22	4.96	3,569.04	7.55	2,196.18	-	-
Jun	13.61	9.78	6,026.11	4.96	3,688.01	8.65	2,338.10	-	-
Jul	12.17	9.53	5,257.62	4.96	3,569.04	7.21	1,688.58	-	-
Aug	11.88	9.23	5,746.63	4.96	3,688.01	6.93	2,058.62	-	-
Sep	11.39	9.36	5,422.56	4.96	3,688.01	6.43	1,734.55	-	-
Oct	11.79	9.57	5,349.86	4.96	3,569.04	6.84	1,780.82	-	-
Nov	12.20	9.45	5,447.20	4.96	3,688.01	7.25	1,759.19	-	-
Dec	11.72	9.50	5,064.00	4.96	3,569.04	6.77	1,494.96	-	-
2023									
Jan	10.60	9.00	4,496.65	4.96	3,688.01	5.65	808.65	-	-
Feb	11.38	9.20	5,504.46	4.96	3,688.01	6.43	1,816.45	-	-

POWER SUPPLY PROCUREMENT PLAN

Mar	11.67	9.20	5,254.23	4.96	3,331.10	6.71	1,923.13	-	-
Apr	10.36	9.10	5,012.38	4.96	3,688.01	5.41	1,324.37	-	-
May	13.22	9.76	5,709.79	4.96	3,569.04	8.26	2,140.75	-	-
Jun	13.58	9.86	5,968.16	4.96	3,688.01	8.62	2,280.15	-	-
Jul	12.05	9.60	5,207.07	4.96	3,569.04	7.10	1,638.03	-	-
Aug	11.77	9.54	5,691.37	4.96	3,688.01	6.81	2,003.37	-	-
Sep	11.28	9.53	5,370.42	4.96	3,688.01	6.32	1,682.41	-	-
Oct	11.68	9.40	5,298.42	4.96	3,569.04	6.72	1,729.38	-	-
Nov	12.09	9.60	5,394.83	4.96	3,688.01	7.13	1,706.82	-	-
Dec	11.61	9.40	5,015.30	4.96	3,569.04	6.65	1,446.26	-	-
2024									
Jan	11.03	9.56	4,676.52	4.96	3,688.01	6.07	988.51	-	-
Feb	11.84	9.46	5,724.64	4.96	3,688.01	6.88	2,036.63	-	-
Mar	12.14	9.30	5,464.40	4.96	3,331.10	7.18	2,133.30	-	-
Apr	10.78	9.20	5,212.88	4.96	3,688.01	5.82	1,524.87	-	-
May	12.89	9.62	5,938.18	4.96	3,569.04	7.93	2,369.14	-	-
Jun	13.60	9.69	6,206.89	4.96	3,688.01	8.64	2,518.88	-	-
Jul	12.54	9.50	5,415.35	4.96	3,569.04	7.58	1,846.31	-	-
Aug	12.24	9.48	5,919.03	4.96	3,688.01	7.28	2,231.02	-	-
Sep	11.73	9.45	5,585.23	4.96	3,688.01	6.77	1,897.22	-	-
Oct	12.15	9.55	5,510.35	4.96	3,569.04	7.19	1,941.31	-	-
Nov	12.57	9.56	5,610.62	4.96	3,688.01	7.61	1,922.61	-	-
Dec	12.07	9.61	5,215.92	4.96	3,569.04	7.12	1,646.88	-	-
2025									
Jan	11.14	9.20	4,723.29	4.96	3,688.01	6.18	1,035.28	-	-
Feb	11.96	9.50	5,781.88	4.96	3,688.01	7.00	2,093.88	-	-
Mar	12.26	9.30	5,519.05	4.96	3,331.10	7.30	2,187.94	-	-
Apr	10.89	9.10	5,265.01	4.96	3,688.01	5.93	1,577.00	-	-
May	13.02	9.63	5,997.56	4.96	3,569.04	8.06	2,428.52	-	-
Jun	13.59	9.71	6,268.96	4.96	3,688.01	8.63	2,580.95	-	-
Jul	12.66	9.53	5,469.51	4.96	3,569.04	7.70	1,900.47	-	-
Aug	12.36	9.48	5,978.22	4.96	3,688.01	7.40	2,290.21	-	-
Sep	11.85	9.30	5,641.09	4.96	3,688.01	6.89	1,953.08	-	-
Oct	12.27	9.44	5,565.46	-	-	12.27	5,565.46	-	-
Nov	12.69	9.56	5,666.72	-	-	12.69	5,666.72	-	-
Dec	12.19	9.60	5,268.08	-	-	12.19	5,268.08	-	-
2026									
Jan	11.36	9.36	4,817.75	-	-	11.36	4,817.75	-	-
Feb	12.20	9.45	5,897.52	-	-	12.20	5,897.52	-	-
Mar	12.50	9.56	5,629.43	-	-	12.50	5,629.43	-	-
Apr	11.10	9.20	5,370.31	-	-	11.10	5,370.31	-	-
May	13.28	9.67	6,117.51	-	-	13.28	6,117.51	-	-
Jun	13.61	9.78	6,394.34	-	-	13.61	6,394.34	-	-
Jul	12.91	9.64	5,578.90	-	-	12.91	5,578.90	-	-
Aug	12.61	9.45	6,097.78	-	-	12.61	6,097.78	-	-
Sep	12.08	9.57	5,753.91	-	-	12.08	5,753.91	-	-
Oct	12.51	9.56	5,676.77	-	-	12.51	5,676.77	-	-
Nov	12.95	9.60	5,780.06	-	-	12.95	5,780.06	-	-
Dec	12.44	9.61	5,373.44	-	-	12.44	5,373.44	-	-
2027									
Jan	11.25	9.20	4,769.57	-	-	11.25	4,769.57	-	-
Feb	12.07	9.56	5,838.55	-	-	12.07	5,838.55	-	-
Mar	12.38	9.50	5,573.13	-	-	12.38	5,573.13	-	-
Apr	10.99	9.20	5,316.60	-	-	10.99	5,316.60	-	-
May	13.14	9.71	6,056.34	-	-	13.14	6,056.34	-	-
Jun	13.45	9.97	6,330.39	-	-	13.45	6,330.39	-	-
Jul	12.78	9.69	5,523.11	-	-	12.78	5,523.11	-	-
Aug	12.48	9.76	6,036.81	-	-	12.48	6,036.81	-	-
Sep	11.96	9.30	5,696.37	-	-	11.96	5,696.37	-	-
Oct	12.39	9.40	5,620.00	-	-	12.39	5,620.00	-	-
Nov	12.82	9.60	5,722.26	-	-	12.82	5,722.26	-	-
Dec	12.31	9.70	5,319.70	-	-	12.31	5,319.70	-	-