



Commonwealth Utilities Corporation



REQUEST FOR PROPOSALS

CUC-RFP-25-021

Independent Power Producer-Solar Photovoltaic with Battery Energy Storage System (BESS) for all Islands, CNMI

QUESTION (RFI/C) No. 001: Martech Services, Inc.

Date: September 5, 2025

QUESTION (RFI/C): Martech Services, Inc.

CUC provides the following responses to the Request for Information/Clarification (RFI/C):

1. The RFP includes Feeder Locations – can CUC provide 24-hour profile of each feeder and amp capacity for each feeder? Include aggregate system peak load and durations.

CUC RESPONSE: See the attached file for the 24-hour load profile for each feeder for each island for May 2025 and August 2025. Refer to the attached file “RFI#1, Q1 & Q2 Response” for the amp capacity for each feeder.

2. Can CUC provide voltage and amp capacity for each feeder and Saipan’s 34.5kv transmission line? The RFP identifies the feeders, however there is no indication as to conductor sizes - CUC Power Distribution uses multiple overhead cable/wire sizes.

CUC RESPONSE: See attached file “RFI#1, Q1 & Q2 Response” in the attachment folder. The 34.5 kV transmission line is directly buried cable from Power Plant No. 1 to Chalan Kiya Substation.

3. CUC has selected several DPL properties on the three islands – has CUC confirmed site use plans with DPL for selected sites?

CUC RESPONSE: CUC has initiated the public lands designation requests with the CNMI Department of Public Lands (DPL) for the properties listed in the RFP. Refer to page 23 of 31 of the Scope of Work.

4. Has CUC performed any major siting permit work on selected DPL sites?



Commonwealth Utilities Corporation



CUC RESPONSE: CUC has not performed any major siting permit work on the DPL sites.

5. Has CUC negotiated with DPL favorable terms in advance for bidder consideration?

CUC RESPONSE: CUC has not negotiated with DPL terms in advance for the proponents.

6. Due to current submittal schedule – can we indicate DPL site payments as a pass-thru so we may prepare our submittal with known numbers?

CUC RESPONSE: The DPL site payment as a pass-thru should be included in the proponents cost proposal. Please indicate this pass-thru cost in the cost proposal submittal.

7. If no predetermined costs for the land has been determined – however sites have been selected – can Proposal provide a Pass-Thru Clause for (currently unknown) land lease costs?

CUC RESPONSE: Refer to CUC’s response to Item No. 6 above.

8. RFP requires a Payment Bond and Performance Bond both 100% - can you explain the function and/or application of each?

CUC RESPONSE: Refer to Appendix A, Section 8: Performance & Payment Bond pages 13-18. The **Payment Bond** and **Performance Bond**, each set at 100%, serve distinct but complementary purposes in ensuring the successful execution of the contract.

- **Performance Bond (100%):** This bond guarantees that the contractor will perform the work in accordance with the terms, conditions, and specifications of the contract. In the event the contractor fails to meet its obligations—whether due to default, insolvency, or other causes—the performance bond provides financial protection to the Owner by covering the costs to complete the project as intended.
- **Payment Bond (100%):** This bond ensures that all subcontractors, laborers, and material suppliers are paid for their work and supplies on the project. It protects the Owner from potential claims, liens, or disputes that could arise if the contractor fails to pay its project-related obligations.

Together, these bonds safeguard both the Owner and the project stakeholders by ensuring contract completion and fair compensation throughout the supply chain.



Commonwealth Utilities Corporation



PP  *2/12/04*

KEVIN O. WATSON, MPA
Executive Director
Commonwealth Utilities Corporation

*** END OF RESPONSE TO RFI/C No. 1 ***

COMMONWEALTH UTILITIES CORPORATION

RFI #1 , Q1 and Q2 CUC Response re Amp Capacity and Cable Sizes
CUC-RFP-25-021

DATA FOR SAIPAN

Feeder / Transmission Line	Cable Size	System Voltage	Nominal Rating	Cable Type	Type of Installation	Interconnection Accessible
34.5 kV	500 MCM	34.5 kV	480 Amp	Armored Cable, 3/C - Copper, XLPE	Direct Burial, Dedicated Subtransmission from Power Plant No. 1 to Kiya S/S	No
Feeder 1	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
Feeder 2	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
Feeder 4	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
Feeder 7	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
Kiya 1	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
Kiya 2	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
Kiya 3	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
Kiya 4	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes

Note: Interconnection possible at Power Plant No. 1 --13.8 kV Bus and 34.5 kV Bus and Kiya Substation -- 13.8 kV Bus and 34.5 kV Bus

DATA FOR TINIAN

Feeder / Transmission Line	Cable Size	System Voltage	Nominal Rating	Cable Type	Type of Installation	Interconnection Accessible
2	556 kcmil	4.16 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
3	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes
4	556 kcmil	13.8 kV	703 Amp	All Aluminum Conductor	Overhead	Yes

Note: Interconnection possible at Tinian Power Plant 13.8 kV Bus
Feeder 2 will be upgraded to 13.8 kV within the next 12 months

DATA FOR ROTA

Feeder / Transmission Line	Cable Size	System Voltage	Nominal Rating	Cable Type	Type of Installation	Interconnection Accessible
1	4/0 AWG	13.8 kV	205 Amp	Aluminum	Overhead	Yes
2	2/0 AWG	13.8 kV	329 Amp	Copper	Overhead	Yes
3	1/0 AWG	13.8 kV	282 Amp	Copper	Overhead	Yes

Note: Interconnection possible at Rota Power Plant 13.8 kV Bus

UTILITIES CORPORATION

UC Response
 AD PROFILE
 5T2025

LOGSHEET (FEEDER CIRCUITS)

Date: 08/05/2025

Feeder	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Feeder KW	350	350	350	30	300	300	300	300	320	360	320	350	350	360	340	340	340	340	340	350	350	350	300	300
Feeder KW	700	680	650	620	600	600	600	550	600	630	650	680	630	640	620	620	620	620	620	600	610	670	650	620
Feeder KW	110	110	110	110	110	110	110	110	110	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125
	1160	1140	1110	760	1010	1010	1010	960	1030	1115	1095	1155	1105	1125	1085	1085	1085	1085	1095	1075	1085	1145	1075	1045

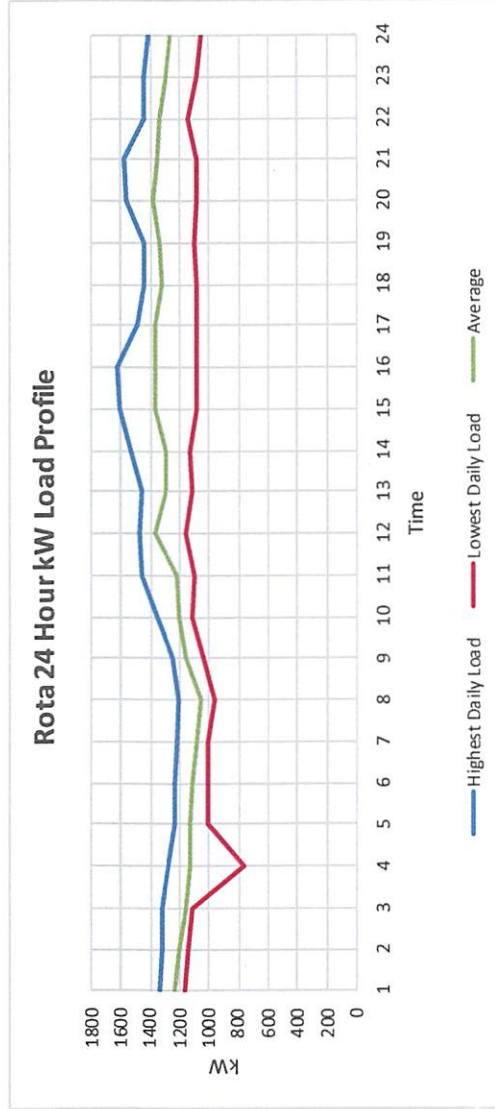
LOGSHEET (FEEDER CIRCUITS)

Date: 08/28/2025

Feeder	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Feeder KW	400	398	400	400	398	398	398	400	430	460	490	495	450	500	490	500	500	450	450	450	480	430	430	400
Feeder KW	805	800	796	750	710	700	698	680	700	760	840	850	880	900	995	995	880	880	880	1000	980	900	880	880
Feeder KW	124	124	124	124	124	124	124	124	120	125	125	125	125	125	125	125	110	110	110	110	110	110	125	125
	1329	1322	1320	1274	1232	1222	1220	1204	1250	1345	1455	1470	1455	1525	1610	1620	1490	1440	1440	1560	1570	1440	1435	1405

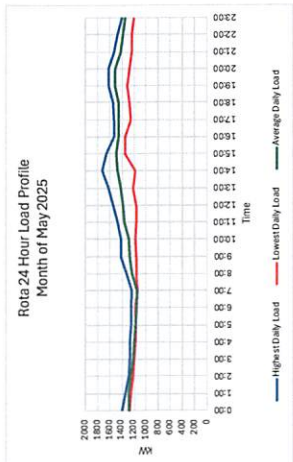
Feeder	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
Feeder	1135	1115	1090	1090	1070	1035	1065	1030	1025	1155	1155	1175	1195	1265	1320	1340	1395	1315	1305	1380	1340	1285	1225	1225
Feeder	1145	1085	1090	1085	1060	1040	1020	1035	1005	1135	1095	1135	1195	1245	1305	1315	1275	1295	1305	1325	1385	1385	1335	1265
Feeder	1215	1145	1130	1105	1080	1050	1050	1055	1100	1025	1055	1125	1225	1195	1315	1325	1335	1335	1325	1325	1345	1345	1300	1295
Feeder	1210	1160	1110	1095	1045	1045	1005	965	1145	1255	490	1300	1310	1310	1290	1290	1270	1210	1230	1310	1310	1310	1190	1190
	1160	1140	1110	760	1010	1010	1010	960	1030	1115	1095	1155	1105	1125	1085	1085	1085	1085	1095	1075	1085	1145	1075	1045
Feeder	1065	1005	985	985	985	1025	445	445	1185	1185	1105	4095	1215	1335	1405	1405	1355	1375	1725	1425	1395	1395	1345	1325
Feeder	1285	1235	1205	1205	1205	1205	1205	1095	1075	1205	1205	1195	1195	1245	1315	1315	1305	1270	1260	1240	1205	1180	1155	1230
Feeder	1175	1160	1002	1110	1115	1060	1045	1015	1055	1240	1307	1337	1360	1440	1515	1405	1425	1450	1485	1440	1400	1405	1335	1325
Feeder	1275	1245	1225	1175	1175	1095	1065	1065	1045	1135	1175	1255	1175	1185	1275	1255	1305	1295	1325	1295	1260	1285	1330	1315
Feeder	1314	1284	1224	1224	1224	1216	1204	1204	1125	1125	1205	1205	1206	1236	1245	1245	1235	1260	1290	1345	1330	1280	1220	1170
Feeder	1095	1060	1035	1035	1010	1015	1000	975	1055	1195	1300	1355	1345	1325	1405	1420	1425	1400	1370	1455	1410	1370	1260	1260
Feeder	1312	1252	1214	1204	1202	1182	1084	1064	1185	500	1160	1220	1220	1250	1345	1365	1315	1170	1165	1185	1245	1195	1185	1135
Feeder	1150	1150	1080	1080	1030	1025	1025	1025	1045	1110	1120	1160	1200	1220	1250	1260	1265	1270	1280	1370	972	1272	1235	1225
Feeder	1195	1195	1095	1095	1095	1065	1025	1022	1200	1295	1325	1285	1310	580	1390	1440	1455	1445	1460	1445	1425	1405	1308	1298
Feeder	1280	1250	1200	1150	1150	1140	1110	1110	1110	1220	1300	1320	1305	1320	1445	1495	1430	1320	1380	1370	1400	1320	1280	1270
Feeder	1195	1195	1165	1165	1125	1085	1025	1025	1105	1175	1185	1325	1305	1300	1300	1340	1315	1335	1313	1418	1355	1313	1308	1308

1275	1185	1185	1145	1135	1135	1115	1090	1100	1070	1160	1220	1290	1340	1320	1396	1336	1395	1501	1503	1546	1403	1315	
1310	1310	1270	1170	1160	1160	1190	1360	1415	1470	1440	1495	1520	1650	1600	1616	1512	1542	1472	1472	1432	1324	1324	
1200	1155	1145	1175	1160	1120	1175	1098	1225	1240	1320	1340	1420	1480	1520	1532	1372	1425	1620	1618	1462	1362	1352	
1275	1260	1240	1235	1175	1155	1105	1065	1285	1365	1285	1345	1435	1525	1465	1522	1344	1344	1554	1534	1522	1514	1359	
1330	1310	1205	1185	1170	1145	1155	1095	1305	1225	1245	1255	1345	1315	1305	1275	1275	1255	1335	1355	1325	1265	1175	
1155	1145	1120	1040	1120	1085	1090	1070	1155	1190	1180	1185	1225	1265	1285	1225	1225	1205	1205	1155	1155	1125	1125	
1105	1090	1030	1010	1015	1005	980	1030	1125	1155	1205	1285	1305	1275	1300	1250	1239	1329	1329	1267	1224	1224	1234	
1120	1120	1060	1040	1030	1040	1085	340	1105	1150	1175	1225	1325	1365	1365	1375	1415	1475	1475	1405	1415	1335	1325	
1255	1230	1155	1135	1110	1110	1135	1095	1205	1325	1455	1425	1505	1605	1665	1435	1395	1565	1565	1525	1455	1385	1335	
1280	1255	1250	1240	1185	1175	1195	1185	1375	1395	1365	1495	1565	1525	1485	1490	1410	1380	1450	1360	1380	1310	1325	
1322	1279	1252	1232	1222	1220	1224	1524	1270	1370	1345	1365	1425	1505	1515	1555	1435	1510	1500	1510	1460	1430	1375	
1329	1322	1320	1274	1232	1222	1220	1204	1250	1345	1455	1470	1455	1525	1610	1490	1440	1440	1560	1570	1440	1435	1405	
1364	1334	1324	1304	1269	1274	1264	1224	1350	1375	1385	1500	1445	1425	1495	1490	1450	1395	1380	1385	1350	1320	1295	
1322	1304	1252	1204	1220	1222	1220	1216	1130	1135	1145	1145	1070	1065	1055	1085	1070	1060	1050	1175	1185	1185	1165	
1150	1132	1066	1064	1064	1034	1064	1104	1045	1055	1060	1075	1125	1195	1190	1155	1150	1130	1285	1305	1270	1240	1260	
1226	1197	1156	1130	1124	1110	1084	1053	1157	1193	1209	1365	1289	1367	1370	1364	1320	1338	1377	1355	1339	1288	1266	
																							Max
																							Min



Month of May 2025

	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total	
1-May	1365	1285	1279	1274	1259	1195	1180	1150	1220	1240	1230	1350	1330	1400	1470	1450	1570	1400	1420	1520	1510	1475	1395	1350	32.32	
2-May	1324	1320	1277	1237	1222	1222	1124	1172	1290	1310	1300	1320	1360	1430	1540	1590	1544	1456	1606	1644	1464	1464	1366	1316	32.80	
3-May	1316	1307	1262	1194	1174	1167	1154	1167	1180	1175	1150	1235	1305	1335	1335	1395	1415	1405	1451	1451	1451	1450	1325	1325	31.24	
4-May	861	1315	1285	1250	1220	1180	1120	1180	1175	1150	1215	1230	1190	1322	1342	1379	1375	1395	1385	1395	1465	1460	1345	1310	30.54	
5-May	1290	1270	1270	1230	1215	1190	1165	1085	1110	1250	1250	1280	1400	1420	1580	1580	1565	1585	1515	1615	1450	1450	1400	1400	32.76	
6-May	1315	1310	1270	1240	1210	1160	1145	1115	1209	1178	1228	1324	1444	1422	1420	1404	1415	1435	1465	1555	1555	1454	1345	1345	31.85	
7-May	1300	1265	1235	1190	1185	1160	1145	1140	1255	1335	1435	1460	1470	1470	1530	1510	1590	1450	1510	1570	1080	1080	1345	1345	32.45	
8-May	1310	1275	1245	1195	1189	1205	1150	1155	1255	1290	1540	1430	1430	1430	1500	1505	1476	1518	1816	1466	1476	1466	1336	1309	33.09	
9-May	1324	1295	1280	1250	1245	1220	1185	1153	1190	1245	1275	1359	1470	1485	1590	1480	1490	1495	1485	1485	1430	1330	1330	32.52		
10-May	1305	1280	1285	1230	1170	1185	1180	1150	1233	1260	1275	1289	1353	1478	1380	1360	1362	1360	1372	1466	1416	1334	1338	1324	31.18	
11-May	1305	1305	1169	1132	1142	1127	1125	1117	1181	1167	1171	1256	1226	1271	1314	1331	1425	1385	1355	1405	1435	1385	1325	1305	30.38	
12-May	1260	1255	1205	1170	1200	1150	1125	1114	1445	1405	1385	1450	1460	1520	1520	1630	1610	1590	1590	1600	1520	1475	1425	1425	34.20	
13-May	1342	1330	1262	1212	1212	1137	1137	1137	1260	1400	1485	1500	1560	1560	1620	1665	1700	1620	1640	1560	1560	1520	1475	1425	34.20	
14-May	1338	1319	1309	1239	1249	1216	1128	1200	1235	1250	1420	1410	1520	1640	1680	1620	1530	1580	1580	1630	1460	1460	1460	1460	34.45	
15-May	1354	1328	1248	1234	1222	1222	1229	1370	1410	1450	1570	1510	1530	1710	1555	1540	1560	1605	1625	1535	1485	1485	1410	1410	34.42	
16-May	1398	1360	1290	1275	1270	1250	1235	1130	1410	1420	1470	1599	1510	1720	1566	1546	1518	1566	1644	1644	1524	1462	1462	1462	34.69	
17-May	1345	1335	1230	1230	1225	1178	1138	1123	1235	1225	1225	1235	1285	1315	1315	1315	1425	1390	1425	1545	1490	1475	1455	1455	32.25	
18-May	1335	1325	1230	1222	1222	1122	1122	1122	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	32.22	
19-May	1324	1316	1216	1216	1216	1120	1120	1120	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	32.21	
20-May	1260	1215	1215	1215	1215	1210	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	1208	32.21	
21-May	1355	1285	1235	1215	1205	1195	1175	1115	1352	1315	1300	1432	1465	1450	1515	1515	1490	1430	1430	1460	1480	1310	1280	1290	32.31	
22-May	1280	1250	1210	1210	1200	1160	1130	1080	1120	1225	1215	1310	1325	1335	1460	1455	1470	1360	1410	1450	1440	1440	1310	1290	31.16	
23-May	895	1215	1185	1165	1155	1115	1065	1095	1185	1345	1415	1445	1455	1535	1535	1555	1585	1505	1505	1505	1405	1350	1315	1315	31.93	
24-May	1255	1215	1195	1145	1135	1055	1085	1175	1185	1295	1250	1250	1250	1385	1415	1415	1331	1342	1342	1342	1342	1342	1295	1245	30.12	
25-May	1290	1245	1195	1170	1170	1100	1134	1112	1122	1132	1210	1339	1318	1308	1338	1340	1418	1420	1398	1398	1398	1295	1280	1280	30.02	
26-May	1270	1240	1210	1190	1170	1160	1170	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	1160	29.18	
27-May	1177	1145	1145	1145	1097	1067	1105	1187	1190	1180	1240	1360	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	31.10	
28-May	1340	1335	1267	1265	1205	1200	1202	1220	1290	1340	1400	1360	1310	1330	1340	1338	1433	1434	1434	1434	1434	1333	1233	31.61		
29-May	1277	1214	1200	1207	1177	1170	1145	1114	1300	1280	1195	1325	1345	1365	1355	1510	1320	1230	1360	1390	1390	1260	1170	1170	30.53	
30-May	1255	1210	1205	1167	1147	1144	1097	1144	1097	1270	1285	1265	1275	1335	1405	1425	1695	1510	1470	1410	1440	1430	1350	1300	31.49	
31-May	1302	1275	1249	1200	1200	1157	1193	1165	1210	1238	1218	1260	1320	1340	1508	1435	1460	1500	1510	1560	1595	1520	1425	1470	32.33	
Average	1279.52	1278.32	1242.55	1204.26	1199.90	1177.90	1159.52	1148.10	1231.71	1265.55	1282.39	1348.81	1372.84	1405.55	1461.52	1491.35	1458.10	1445.81	1453.84	1508.65	1497.55	1414.10	1374.32	1338.77	34.69	
																									29.18	
																										MWh per day



HIGHEST DAILY FEEDER LOAD
 CONTROL ROOM LOGSHEET (FEEDER CIRCUITS)

FEEDER	METER	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	Watt Meter	480	430	430	420	420	420	420	420	430	480	490	510	510	510	510	560	500	500	500	500	500	500	498	438
2	Watt Meter	800	800	800	750	720	700	690	780	820	820	850	930	980	1000	980	900	910	910	1000	1000	902	840	840	840
Station	Watt Meter	118	110	110	110	125	130	130	125	120	110	110	110	110	110	110	110	116	116	116	114	124	124	124	124
Total		1398	1340	1290	1275	1270	1250	1250	1330	1410	1420	1470	1550	1610	1720	1650	1518	1526	1546	1614	1624	1526	1462	1462	1462

Date: 05/16/2025

LOWEST DAILY FEEDER LOAD
 CONTROL ROOM LOGSHEET (FEEDER CIRCUITS)

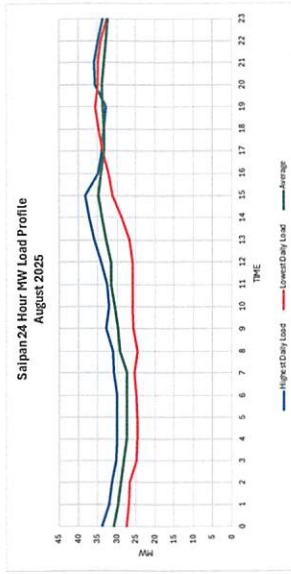
FEEDER	METER	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
1	Watt Meter	410	400	390	380	380	390	390	380	380	380	390	390	390	390	380	420	420	420	420	450	410	400	400	380
2	Watt Meter	750	730	710	700	680	680	680	670	670	680	650	650	650	650	650	650	650	650	650	650	650	650	650	700
Station	Watt Meter	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
Total		1270	1240	1210	1190	1170	1180	1170	1140	1140	1160	1160	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1150	1190

Date: 05/26/2025

COMBOWIE ASH UTILITIES CORPORATION
CUC-IFA-25-02
RIFA, OI and GC CUC Response
SAPAN 24 HOUR MW LOAD PROFILE

AUGUST 2025

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
1-Aug	31.27	28.55	27.74	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	27.85	740.71
2-Aug	31.74	30.47	29.85	29.74	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	754.62
3-Aug	31.74	30.47	29.85	29.74	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	754.62
4-Aug	31.22	30.4	29.19	28.92	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	28.83	734.97
5-Aug	30.85	30.26	29.43	28.8	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	28.25	734.97
6-Aug	30.24	30.44	29.82	29.12	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	734.97
7-Aug	31.35	30.44	29.82	29.12	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	734.97
8-Aug	31.35	30.44	29.82	29.12	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	734.97
9-Aug	31.35	30.44	29.82	29.12	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	734.97
10-Aug	31.35	30.44	29.82	29.12	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	28.57	734.97
11-Aug	33.44	33.24	31.99	30.93	29.88	29.22	29.84	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	29.61	734.97
12-Aug	27.74	27.43	26.05	25.19	24.33	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	23.62	734.97
13-Aug	31.24	30.79	29.28	28.92	28.5	28.26	28.41	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	28.64	734.97
14-Aug	29.45	29.26	29.02	27.41	26.85	27.29	27.77	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	27.57	734.97
15-Aug	31.17	30.26	28.79	27.99	27.45	27.22	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	734.97
16-Aug	31.17	30.26	28.79	27.99	27.45	27.22	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	734.97
17-Aug	31.17	30.26	28.79	27.99	27.45	27.22	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	734.97
18-Aug	33.91	31.88	31.31	30.67	30.05	30.03	30.08	30.06	30.97	32.79	31.97	32.57	34.12	35.93	37.16	38.2	34.76	33.74	33.37	33.76	33.55	35.77	34.78	33.52	796.43
19-Aug	30.05	30.63	30.52	29.82	29.6	27.99	27.96	27.32	27.92	32.27	32.27	32.27	32.36	33.08	33.22	35.67	35.67	35.67	35.67	35.67	35.67	35.67	35.67	35.67	781.68
20-Aug	30.8	30.4	29.76	29.33	28.54	28.35	27.38	27.61	31.69	31.35	32.06	32.11	32.62	33.45	35.33	35.51	35.48	35.79	36.32	37.25	37.09	38.82	33.2	32.52	779.16
21-Aug	31.88	30.86	28.23	28.18	28.05	27.63	27.3	26.85	29.48	29.82	32.82	32.74	33.87	35.56	41.65	41.65	41.65	41.65	41.65	41.65	41.65	41.65	41.65	41.65	762.13
22-Aug	31.85	28.03	27.66	26.43	27.02	26.93	27.49	31.28	32	31.78	31.72	28.39	28.94	30.9	32.15	32.34	32.13	32.48	33.22	34.09	32.81	32.2	30.51	321.86	
23-Aug	31.85	28.03	27.66	26.43	27.02	26.93	27.49	31.28	32	31.78	31.72	28.39	28.94	30.9	32.15	32.34	32.13	32.48	33.22	34.09	32.81	32.2	30.51	321.86	
24-Aug	30.92	30.01	27.0	27.77	27.25	27.55	27.54	27.77	31.7	32.75	32.74	48.76	30.15	35.8	36.35	34.53	32.4	32.41	33.15	33.62	32.88	32.78	34.5	782.63	
25-Aug	32.93	31.3	30.45	29.41	29.39	28.77	28.44	28.13	30.65	31.13	31.41	31.42	30.78	30.68	31.2	31.07	32.89	33	32.7	32.57	32.21	30.65	28.98	742.45	
26-Aug	28.21	26.96	27.4	26.63	25.84	25.72	26.42	27.46	29.69	29.55	30.27	31.06	33.53	34.45	38.46	40.46	40.46	40.46	40.46	40.46	40.46	40.46	40.46	40.46	762.26
27-Aug	29.84	29.33	29.07	28.41	27.12	26.73	26.7	26.5	29.93	30.84	31.95	32.32	31.64	31.7	32.36	31.83	31.91	30.99	31.04	32.76	31.67	30.74	29.88	28.74	724.1
28-Aug	28.77	27.86	27.36	26.13	26.06	26.2	27.39	28.25	30.76	32.01	31.42	32.6	31.1	33.85	32.49	33.01	33.43	30.52	31.36	29.03	29.71	31.25	30.57	30.3	721.43
29-Aug	29.53	29.27	28.7	27.64	27.07	27.78	27.75	27.27	27.56	27.54	28.99	30.22	31.11	33.77	34.11	33.77	33.11	32.1	33.67	34.57	33.5	34.83	34.15	32.57	691.72
30-Aug	29.53	29.27	28.7	27.64	27.07	27.78	27.75	27.27	27.56	27.54	28.99	30.22	31.11	33.77	34.11	33.77	33.11	32.1	33.67	34.57	33.5	34.83	34.15	32.57	691.72
AVERAGE	30.67	29.82	29.89	28.12	27.80	27.41	27.43	27.53	29.25	29.68	30.37	31.44	31.51	32.73	33.87	34.74	34.06	33.36	33.32	33.68	33.75	33.35	32.84	32.30	747.54



24 Hour Load Profile of feeders

Feeder	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Feeder 1	3.03	3.54	3.44	3.22	3.52	3.57	3.6	4.09	4.18	4.33	4.49	4.63	4.56	4.47	0.95	0.98	0.82	2.62	2.37	2.17	2.37	2.2	2.1	2.2	3.79
Feeder 2	4.36	3.46	3.37	3.41	3.47	3.41	3.41	2.47	2.35	3.01	3.04	2.96	2.98	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	3.24
Feeder 4	4.5	4.4	4.28	4.05	4.07	3.97	3.94	3.88	3.75	3.79	3.3	3.47	3.75	4.23	4.72	4.28	4.41	4.9	5.18	5.35	5.28	5.15	4.57	4.26	
Feeder 7	1.76	1.67	1.59	1.56	1.56	1.57	1.55	1.82	1.88	2.04	1.89	1.91	1.95	2.2	2.32	2.21	2.1	2.13	2.17	2.08	2.2	2.04	1.83	1.83	
KVA1	4.77	4.65	4.41	4.12	4.09	4.28	4.19	4.21	4.13	4.07	4.35	4.0	4.72	4.91	4.92	4.96	5.01	5	5.32	5.22	5.22	5.22	5.22	5.22	
KVA2	5.59	5.48	5.19	4.95	4.87	4.76	4.86	4.07	3.79	3.69	3.59	3.64	3.76	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	3.84	
KVA3	4.03	3.86	3.54	3.36	3.23	3.69	3.96	3.95	4.45	4.9	4.85	4.92	4.88	5.2	5.39	5.6	5.53	5.57	5.3	5.43	5.12	5.43	5.12	4.75	
KVA4	2.9	2.86	2.84	2.67	2.65	2.76	3.07	3.19	3.13	3.15	3.24	3.19	2.99	3.03	3.44	3.82	3.97	4.11	3.99	4.02	4.04	3.91	3.72	3.43	
P1 S1N Service	0.83	0.82	0.82	0.78	0.78	0.82	0.84	0.83	0.86	0.86	0.89	0.89	0.89	0.89	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	
P4 S1N Service	33.91	31.88	31.31	30.27	30.05	30.03	30.03	30.08	30.86	30.97	32.79	31.97	32.57	34.12	35.93	37.16	38.2	34.76	33.74	33.37	33.76	33.55	35.77	34.78	33.52
Total DFR Load	33.91	31.88	31.31	30.27	30.05	30.03	30.03	30.08	30.86	30.97	32.79	31.97	32.57	34.12	35.93	37.16	38.2	34.76	33.74	33.37	33.76	33.55	35.77	34.78	33.52

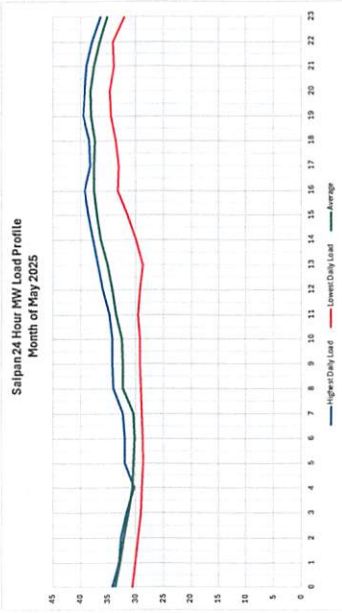
31-Aug (Lowest Daily Load of the Month)

Feeder	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Feeder 1	3.07	3.07	2.98	2.85	2.79	2.88	2.85	2.98	2.26	3.21	3.47	3.41	3.47	3.58	3.58	3.85	3.88	4.07	4.18	4.2	4.17	4.14	3.83	3.58
Feeder 2	3.48	3.33	3.54	2.51	2.6	2.34	2.38	2.41	2.51	2.52	2.38	2.24	2.3	2.3	3.19	3.19	3.07	3.85	4.07	3.84	3.1	3.95	4.16	4.16
Feeder																								

COMMONWEALTH UTILITIES CORPORATION
 CUC-RP-35-021
 RFLAL 01 and 02 CUC Response
 SAMPAN 24 HOUR MW LOAD PROFILE

MAY 2025

TIME	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
1-MW	34.04	33.25	32.76	32.57	31.91	31.46	31.41	31.15	30.69	31.71	32.15	32.33	32.43	32.43	32.32	32.32	32.32	32.32	32.32	32.32	32.32	32.32	32.32	32.32	32.32
2-MW	33.21	33.55	32.72	32.81	31.11	30.98	30.42	30.88	31.24	29.57	30.38	32.25	34.62	35.25	35.89	37.38	38.43	38.32	38.54	38.61	38.34	37.84	36.87	35.72	840.99
3-MW	34.59	33.43	32.81	30.51	31.63	30.66	29.92	30.43	30.43	29.73	29.65	31.12	31.76	33.93	35.85	35.84	36.8	37.04	33.09	33.03	33.03	33.03	33.03	33.03	826.75
4-MW	34.93	33.09	32.69	32.34	31.7	31.4	31.73	33.39	32.84	34.19	33.86	35.17	35.76	35.86	36.83	38.14	37.21	38.23	39.03	39.42	38.81	37.81	35.42	841.24	
5-MW	34.56	32.69	32.47	31.86	31.61	31.59	31.13	31.02	33.93	33.63	33.78	33.78	33.63	33.66	33.66	33.66	33.66	33.66	33.66	33.66	33.66	33.66	33.66	33.66	
6-MW	34.17	32.7	32.5	32.2	31.66	31.44	31.47	31.66	33.96	32.62	33.23	34.71	35.85	36.77	37.79	38.37	39.14	39.03	39.46	39.62	39.34	31.72	34.23	842.28	
7-MW	33.54	32.9	32.54	31.66	31.44	31.47	31.66	33.96	32.62	33.23	34.71	35.85	36.77	37.79	38.37	39.14	39.03	39.46	39.62	39.34	31.72	34.23	842.28		
8-MW	34.1	33.02	32.54	31.67	31.47	31.47	31.67	32.2	34.21	34.23	34.71	35.85	36.77	37.62	38.44	39.17	38.13	38.38	39.4	39.12	38.79	37.82	36.2	850.37	
9-MW	33.79	33.05	31.89	31.79	31.33	30.6	30.41	30.55	30.69	31.25	32.88	33.17	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	
10-MW	34.41	33.79	33.05	31.89	31.79	31.33	30.6	30.41	30.55	30.69	31.25	32.88	33.17	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	32.61	
11-MW	34.74	33.48	32.43	31.81	31.35	30.8	31.35	31.45	31.54	30.12	32.14	31.48	31.44	32.25	34.69	36.74	36.74	36.74	36.74	36.74	36.74	36.74	36.74	36.74	
12-MW	32.46	32.62	32.04	31.35	31.19	30.97	30.96	31.11	31.74	34.32	35.1	34.85	35.02	35.53	36.13	36.01	35.22	35.78	35.51	35.16	35.12	35.12	35.12	35.12	
13-MW	32.46	32.62	32.04	31.35	31.19	30.97	30.96	31.11	31.74	34.32	35.1	34.85	35.02	35.53	36.13	36.01	35.22	35.78	35.51	35.16	35.12	35.12	35.12	35.12	
14-MW	33.24	32.48	31.57	30.39	30.16	30.08	30.67	32.65	34.41	34.1	34.58	35.29	35.04	35.77	36.95	38.08	37.87	38.82	39.54	39.45	39.45	39.45	39.45	39.45	
15-MW	34.22	33.36	32.63	32.27	31.86	30.72	31.06	34.43	33.7	34.92	35.52	36.76	37.83	37.38	38.5	38.48	38.23	39	38.86	38.15	37.32	36.1	846.66		
16-MW	34.11	33.3	32.64	31.61	29.85	30.76	30.29	30.96	30.8	30.65	29.57	32.27	32.06	32.91	34.58	35.56	36.11	37.69	35.51	36.1	36.88	36.06	34.97	851.77	
17-MW	34.06	33.62	32.65	31.9	31.28	31.03	30.74	30.79	33.45	33.89	33.92	35.5	36.27	36.59	37.35	38.99	38.34	38.22	37.93	38.49	39.11	38.58	37.72	860.75	
18-MW	33.35	32.62	31.97	31.39	30.41	30.22	30.37	33.88	33.3	33.19	35.06	34.84	35.49	36.91	37.62	37.53	35.96	35.89	39.35	38.7	37.89	36.06	34.81	838.15	
19-MW	33.35	32.62	31.97	31.39	30.41	30.22	30.37	33.88	33.3	33.19	35.06	34.84	35.49	36.91	37.62	37.53	35.96	35.89	39.35	38.7	37.89	36.06	34.81	838.15	
20-MW	33.31	32.3	31.47	30.73	29.99	29.51	30.3	33.02	29.16	29.15	29.86	34.96	30.93	30.93	30.93	30.93	30.93	30.93	30.93	30.93	30.93	30.93	30.93	30.93	
21-MW	32.38	32.44	31.69	30.39	29.95	29.04	29.51	32.59	33.98	34.29	35.43	37.04	37.14	37.51	38.03	38.14	38.6	38.68	37.95	36.78	36.41	35.33	809.94		
22-MW	32.38	32.44	31.69	30.39	29.95	29.04	29.51	32.59	33.98	34.29	35.43	37.04	37.14	37.51	38.03	38.14	38.6	38.68	37.95	36.78	36.41	35.33	809.94		
23-MW	31.49	31.16	30.38	28.17	28.92	27.09	29.47	30.66	32.49	32.48	34.62	34.22	34.59	35.2	35.91	36.77	37.17	37.79	35.42	36.99	37.1	35.78	35.28	802.47	
24-MW	33.49	33.47	32.2	31.09	30.58	30.48	30.19	29.61	30.02	28.7	30.15	31.15	31.13	30.66	32.74	32.64	33.85	33.72	33.3	32.43	31.27	31.27	31.27	756.25	
25-MW	29.99	29.51	28.92	28.79	28.56	28.65	28.81	28.92	29.15	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	
26-MW	30.45	29.99	29.51	28.92	28.79	28.56	28.65	28.81	28.92	29.15	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	
27-MW	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	
28-MW	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	
29-MW	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	
30-MW	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	
31-MW	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	
32-MW	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	31.33	
AVERAGE	32.76	32.05	31.47	30.88	30.39	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	30.42	



24 HOUR PROFILE OF EACH FEEDER

TIME	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Feeder 1	3.72	3.64	3.49	3.44	3.38	3.57	3.66	3.66	4.06	4.07	4.31	4.6	4.53	4.63	4.6	4.71	4.66	4.41	4.46	4.34	4.25	4.08	3.98	23
Feeder 2	4.54	4.59	4.65	4.62	4.63	4.52	4.58	4.59	4.58	4.38	4.19	4.19	4.04	4.26	4.05	4.2	4.13	4.08	3.98	4.01	3.99	4.1	4.16	4.28
Feeder 3	4.33	4.13	3.97	4.1	3.97	3.78	3.77	3.71	3.71	3.32	3.41	3.32	3.41	3.57	3.82	4.1	4.22	4.09	4.9	4.91	4.97	4.78	4.59	4.59
Feeder 4	1.77	1.68	1.54	1.63	1.67	1.68	1.85	1.85	2	2	2.04	2.13	2.29	2.29	2.23	2.04	2.05	2.18	2.23	2.15	2.15	1.99	1.84	1.84
Feeder 5	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82	5.82
Feeder 6	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83	5.83
KVA 1	4.8	4.81	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
KVA 2	4.8	4.81	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
KVA 3	4.8	4.81	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
KVA 4	3.57	3.53	3.42	3.34	3.3	3.38	3.54	3.79	4.57	4.65	4.69	4.58	4.63	5.07	4.97	5.01	5.09	4.43	4.35	4.33	4.03	3.88	3.63	3.63
PP1 STN Service	1.07	1.07	1.07	1.12	1.14	1.14	1.07	1.16	1.2	1.1	1.48	1.5	1.49	1.51	1.51	1.42	1.46	1.4	1.42	1.39	1.39	1.39	1.39	1.39
PP4 STN Service	30.45	29.99	29.51	28.92	28.79	28.56	28.65	28.81	28.92	29.15	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18
Total DFL Load	33.02	32.84	31.57	30.24	31.97	31.87	32.2	34	34.21	34.23	34.73	35.85	36.77	37.62	38.44	39.17	38.13	38.38	39.4	39.12	38.79	37.82	36.2	862

26-MW (Lowest Daily Load of the month)

TIME	0
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