Monthly Generation Report

July-24

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

July-24

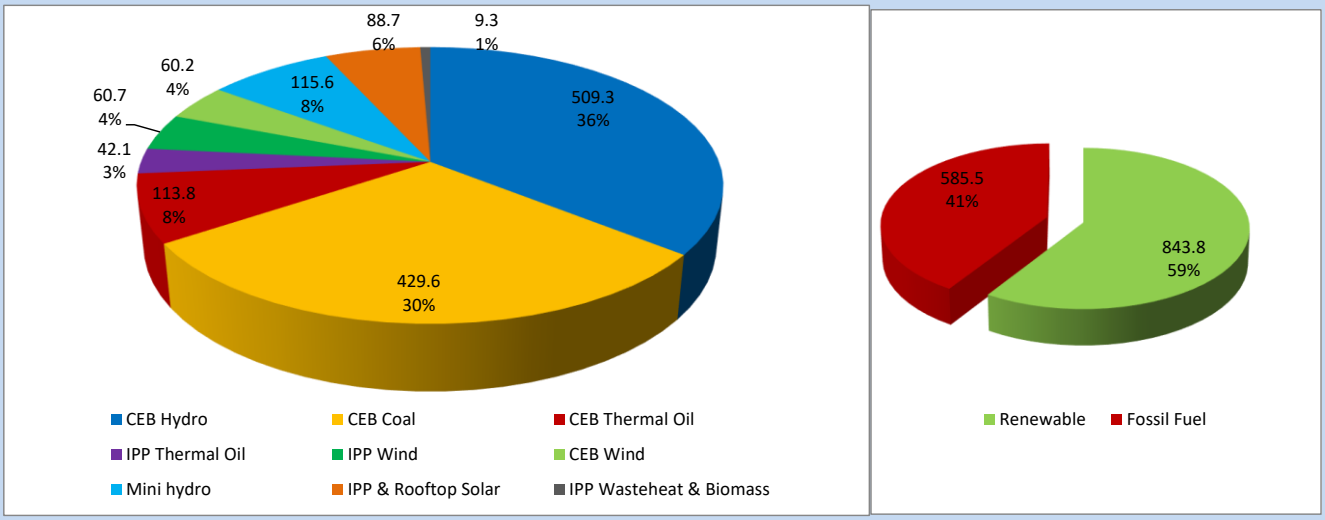


Table 01

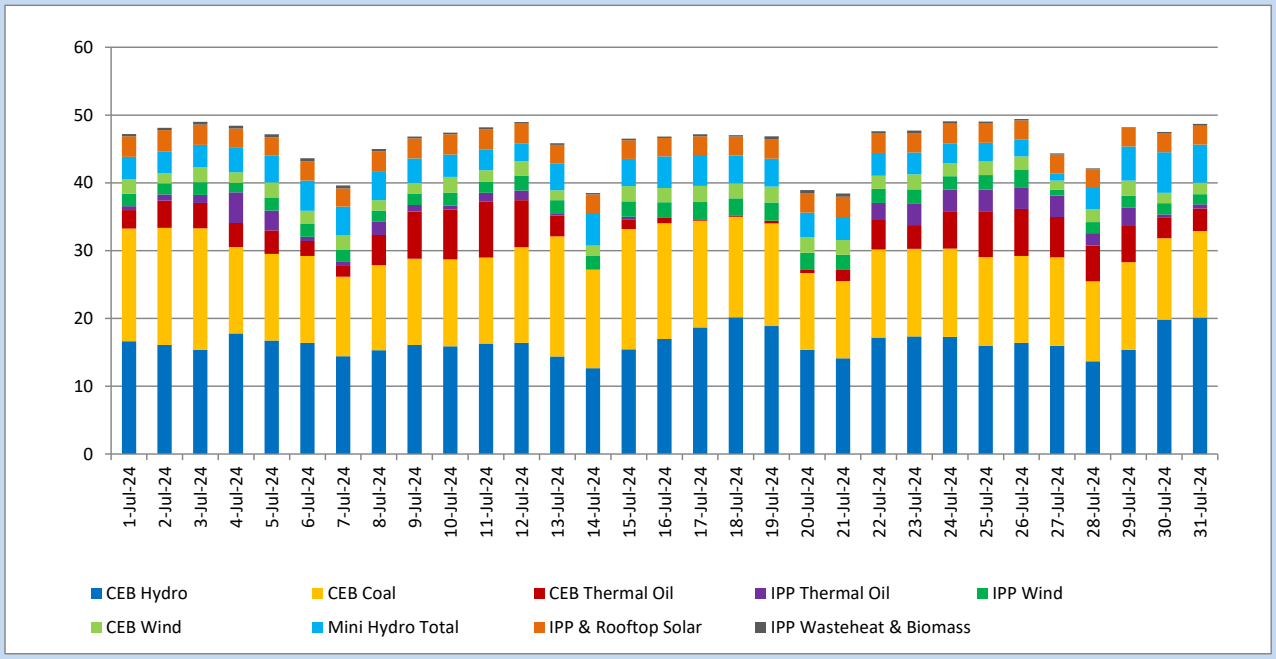
CEB Hydro	509	GWh
CEB Coal	430	GWh
CEB Thermal Oil	114	GWh
IPP Thermal Oil	42	GWh
IPP Wind	61	GWh
CEB Wind	60	GWh
Mini Hydro (Including non telemetered)	116	GWh
IPP Solar (Including estimated figures)	89	GWh
IPP Wasteheat + Biomass	9	GWh
Total Generation (Including estimated figures)	1,429	GWh

Total Generation = 1,429 GWh

Total Estimated Unserved Energy duty power cut = 0 GWh

· Estimated total generation from Minihydro, Solar and Rooftop Solar has been added to the generation

1.2 Variation of Daily Generation Mix during the month



1.3 Annual Cumulative Generation

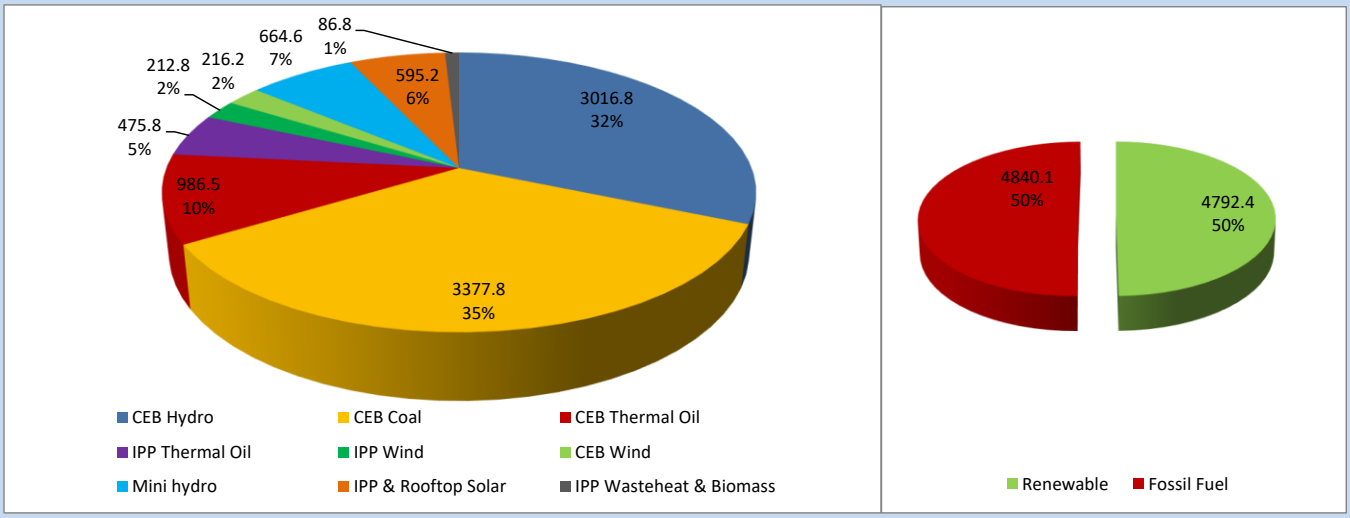


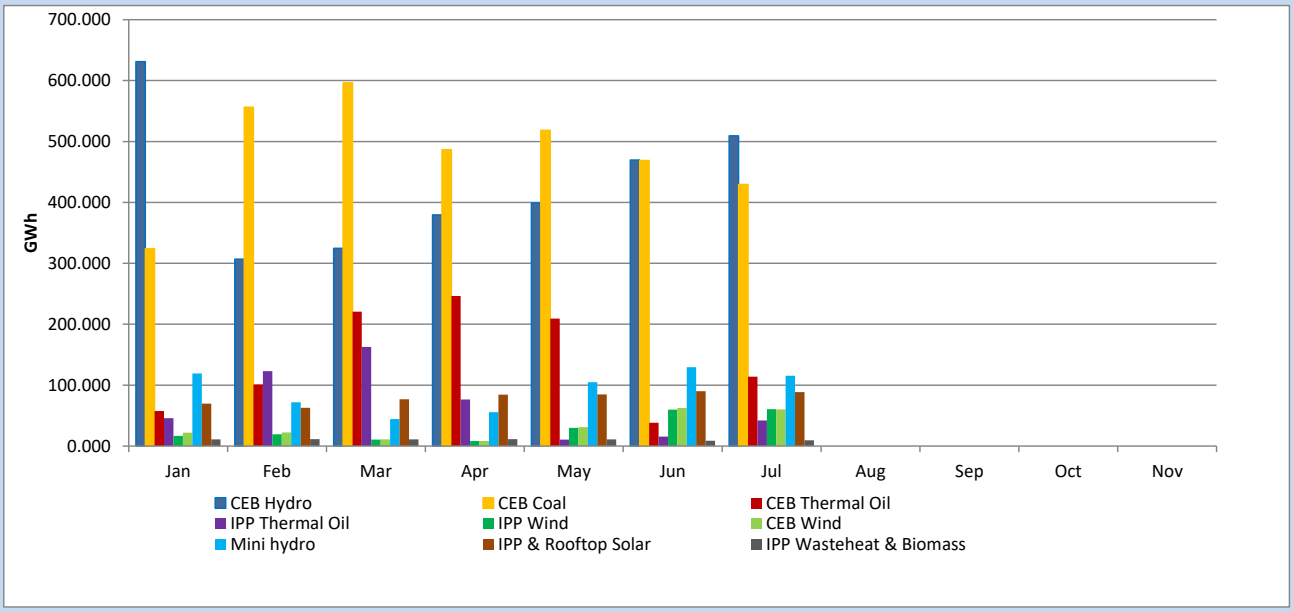
Table 02

CEB Hydro	3016.82	GWh
CEB Coal	3377.78	GWh
CEB Thermal Oil	986.52	GWh
IPP Thermal Oil	475.78	GWh
IPP Wind	212.79	GWh
CEB Wind	216.18	GWh
Mini Hydro (Including non telemetered)	664.61	GWh
IPP Solar (Including estimated figures)	595.21	GWh
IPP Wasteheat + Biomass	86.79	GWh
Total Generation (Including estimated figures)	9632.47	GWh

Table 03

	Installed Capacity (MW)
CEB Hydro	1531
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast)	270
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar* (Ordinary)	343
Rooftop Solar* (LT Bulk)	289
Rooftop Solar* (HT Bulk)	84

1.4 Variation of Monthly Generation Mix during the year



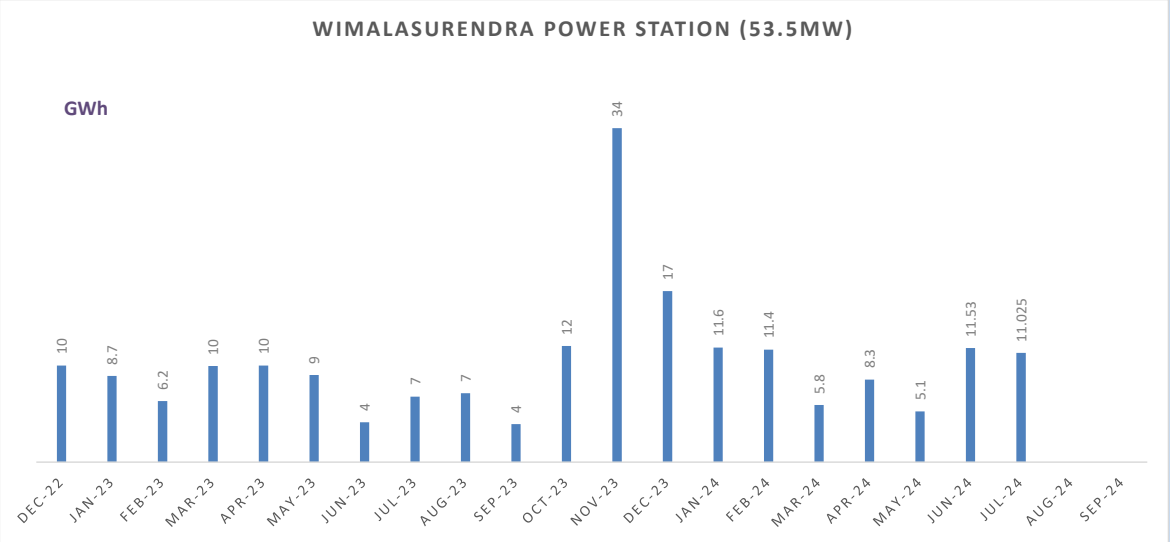
2 Major Plant Dispatch

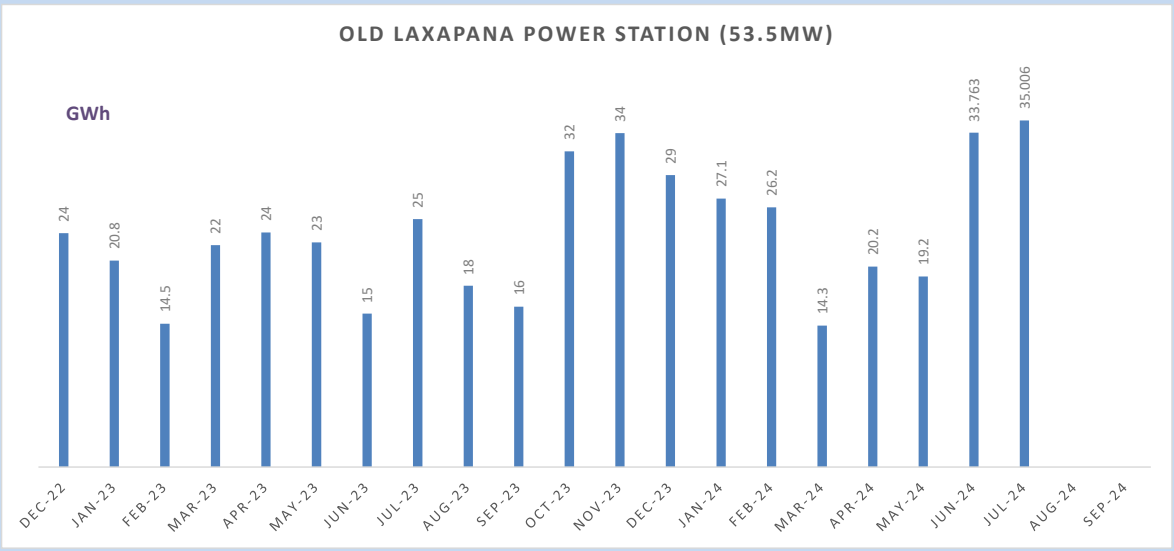
2.1 Dispatch from all Generation Major Plants in July-24

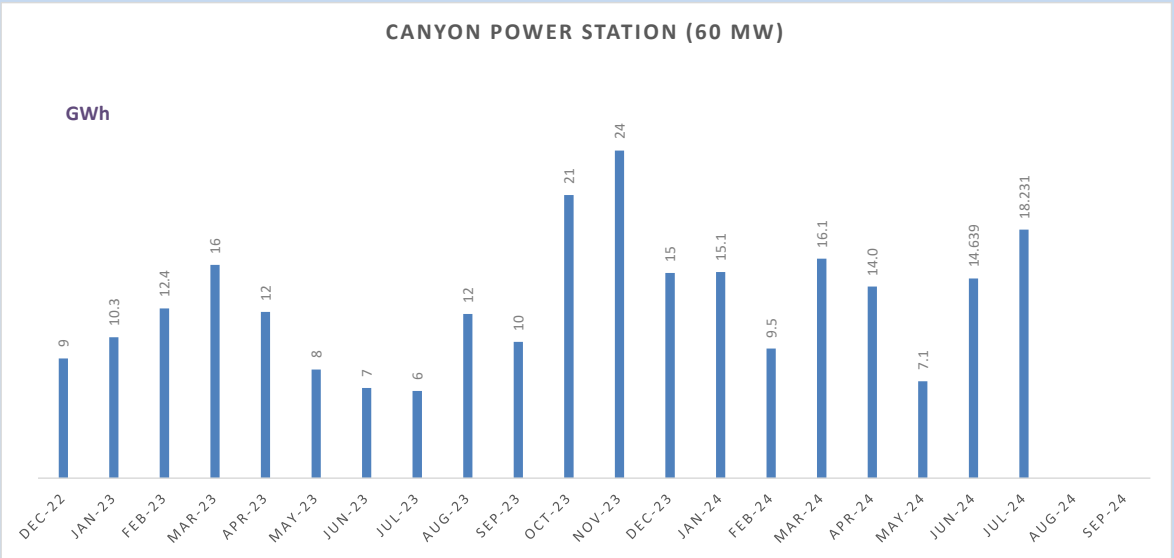
Table 04

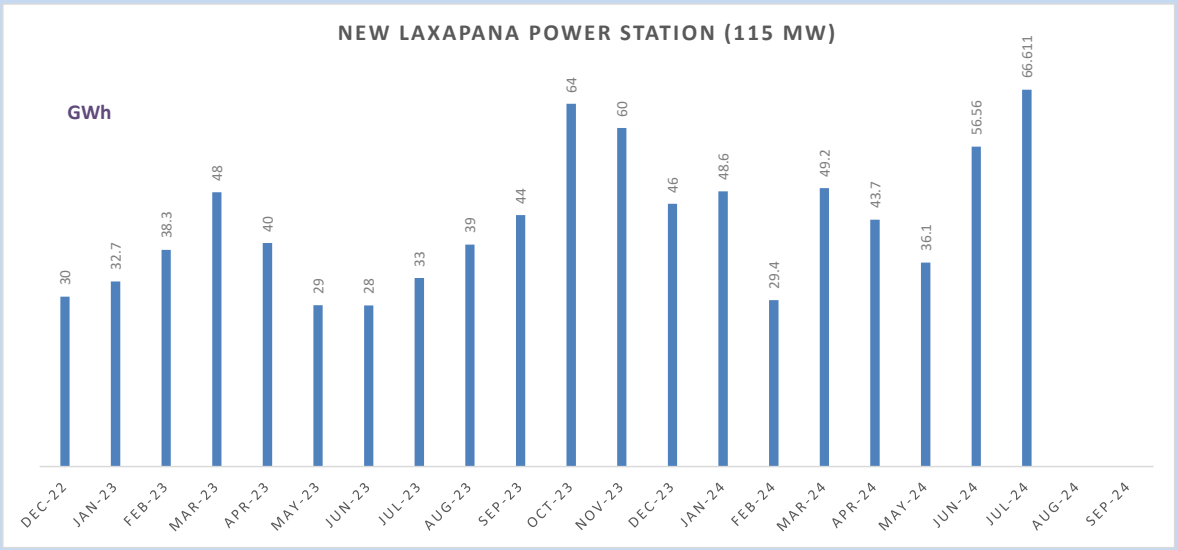
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	11,025	30.6%
Old Laxapana	54	35,006	90.0%
Canyon	60	18,231	42.2%
New Laxapana	100	66,611	92.5%
Polpitiya	90	57,840	89.3%
Broadlands	35	14,857	59.0%
Kotmale	201	48,960	33.8%
Victoria	210	67,606	44.7%
Randenigala	122	33,103	37.7%
Rantambe	50	14,215	39.5%
Ukuwela	40	15,432	53.6%
Bowatenna	40	1,319	4.6%
Upper Kotmale	150	48,570	45.0%
Nilambe	3	1,092	50.6%
Samanalawewa	120	25,103	29.1%
Kukule	75	35,885	66.5%
Inginiyagala	120	10,175	11.8%
Udawalawe	6	1,386	32.1%
Puttalam Coal I	270	189,134	97.3%
Puttalam Coal II	270	114,874	59.1%
Puttalam Coal III	270	125,578	64.6%
KPS Small GTs	64	0	0.0%
KPS GT 7	115	0	0.0%
KCCP	165	41,225	34.7%
Sapugaskanda A	64	9,256	20.1%
Sapugaskanda B	72	25,620	49.4%
Uthura Janani	24	6,914	40.0%
Barge CEB	60	29,053	67.3%
CEB - Hambantota	24	13	0.1%
CEB - Mathugama	16	6	0.1%
KCCPS -2	163	1,739	1.5%
West Coast	270	40,782	21.0%

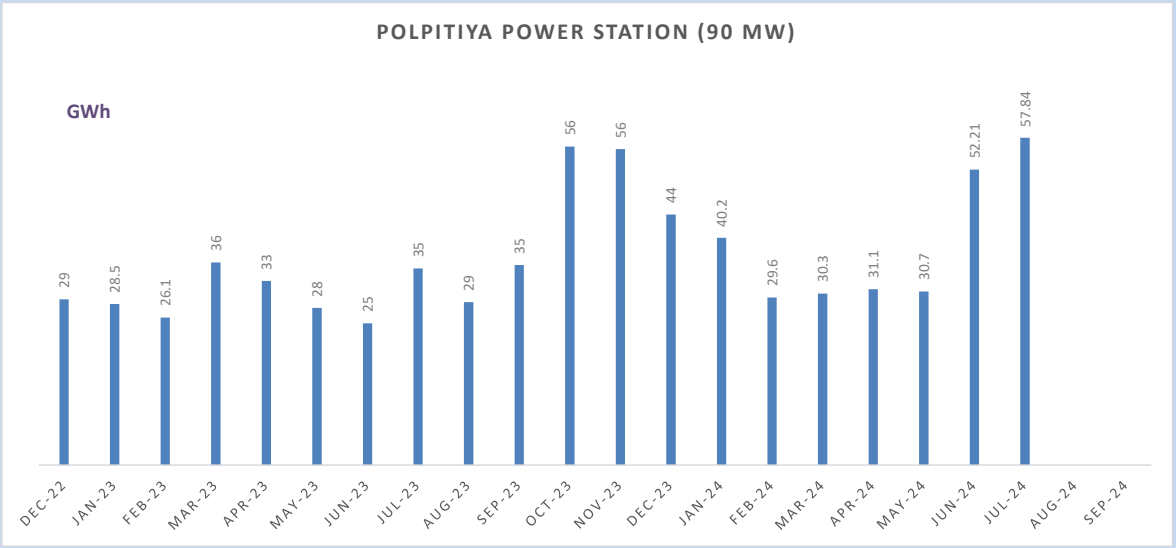
2.3 Generation of Major Power Plants From Last Year








NEW LAXAPANA POWER STATION (115 MW)
GWh
30
32.7
38.3
48
40
29
28
33
39
44
64
60
46
48.6
29.4
49.2
43.7
36.1
56.56
66.611
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


POLPITIYA POWER STATION (90 MW)
GWh
29
28.5
26.1
36
33
28
25
35
29
35
56
56
44
40.2
29.6
30.3
31.1
30.7
52.21
57.84
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
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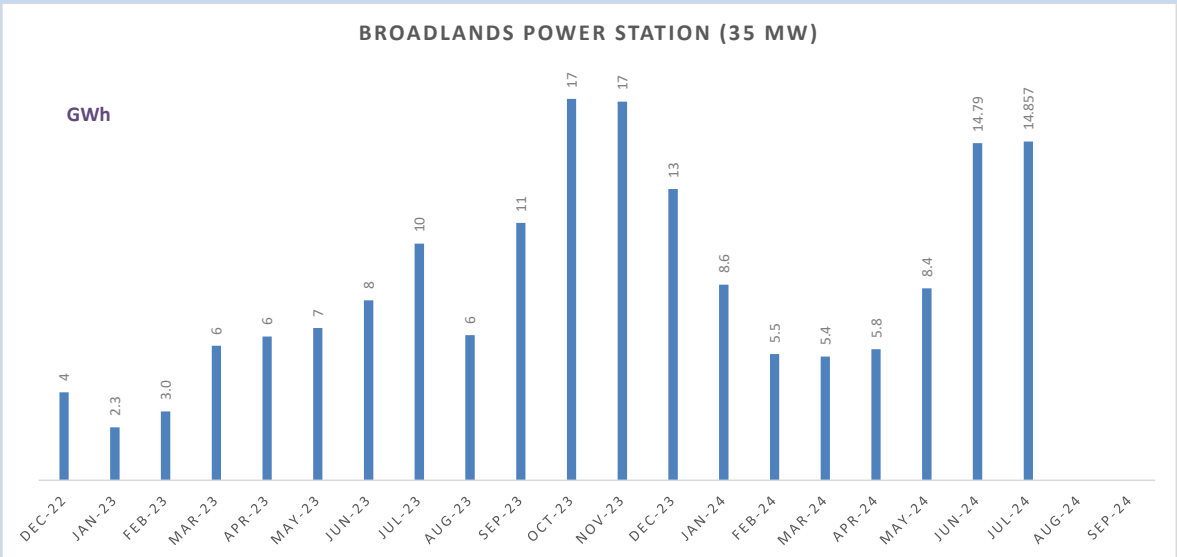
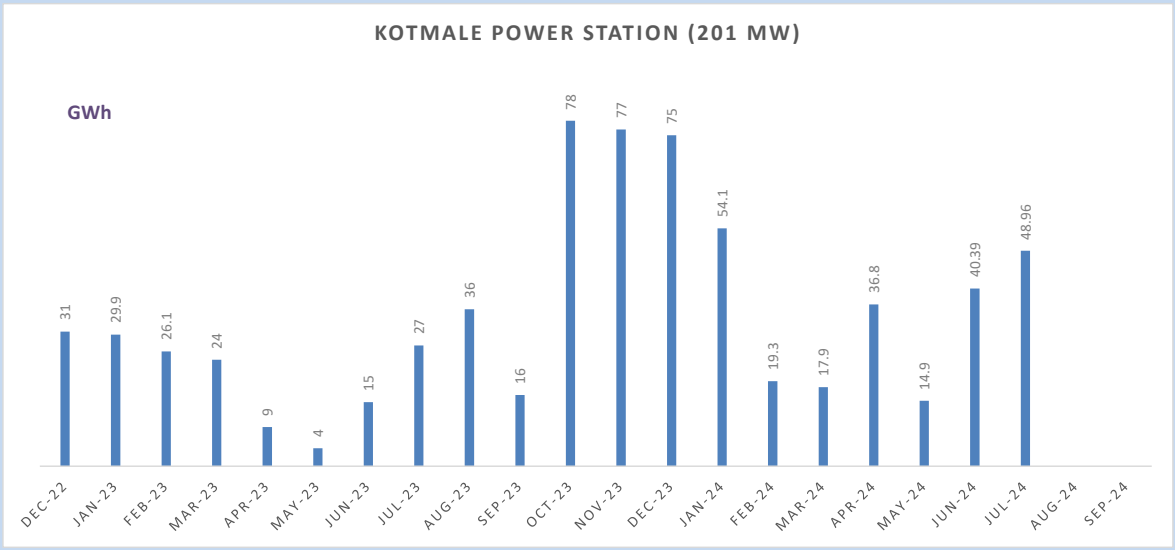
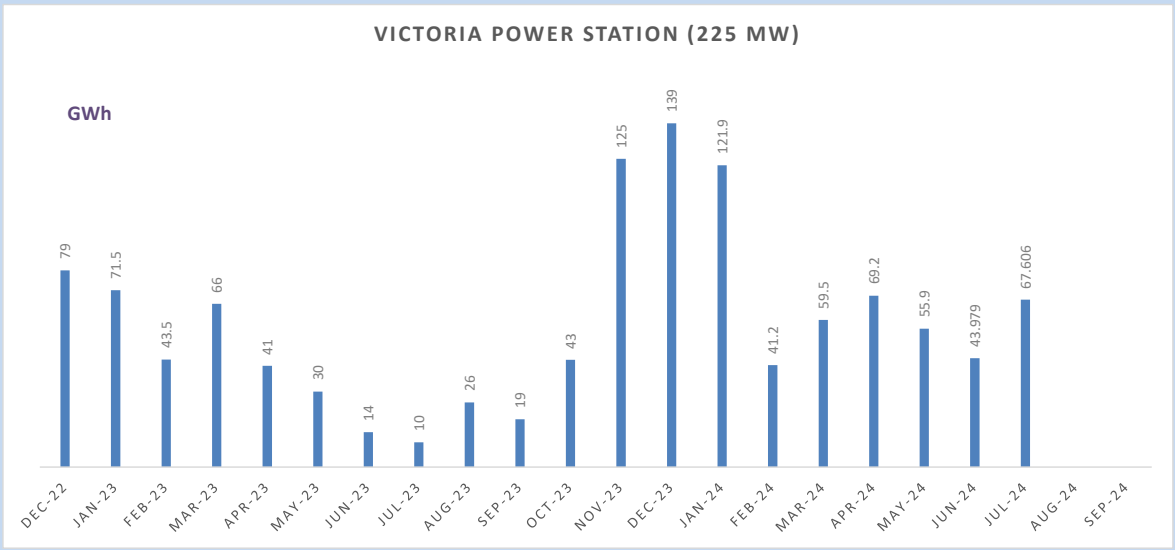
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


BROADLANDS POWER STATION (35 MW)
GWh
4
2.3
3.0
6
6
7
8
10
6
11
17
17
13
8.6
5.5
5.4
5.8
8.4
14.79
14.857
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


KOTMALE POWER STATION (201 MW)
GWh
31
29.9
26.1
24
9
4
15
27
36
16
78
77
75
54.1
19.3
17.9
36.8
14.9
40.39
48.96
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


VICTORIA POWER STATION (225 MW)
GWh
79
71.5
43.5
66
41
30
14
10
26
19
43
125
139
121.9
41.2
59.5
69.2
55.9
43.979
67.606
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
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MAR-24
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MAY-24
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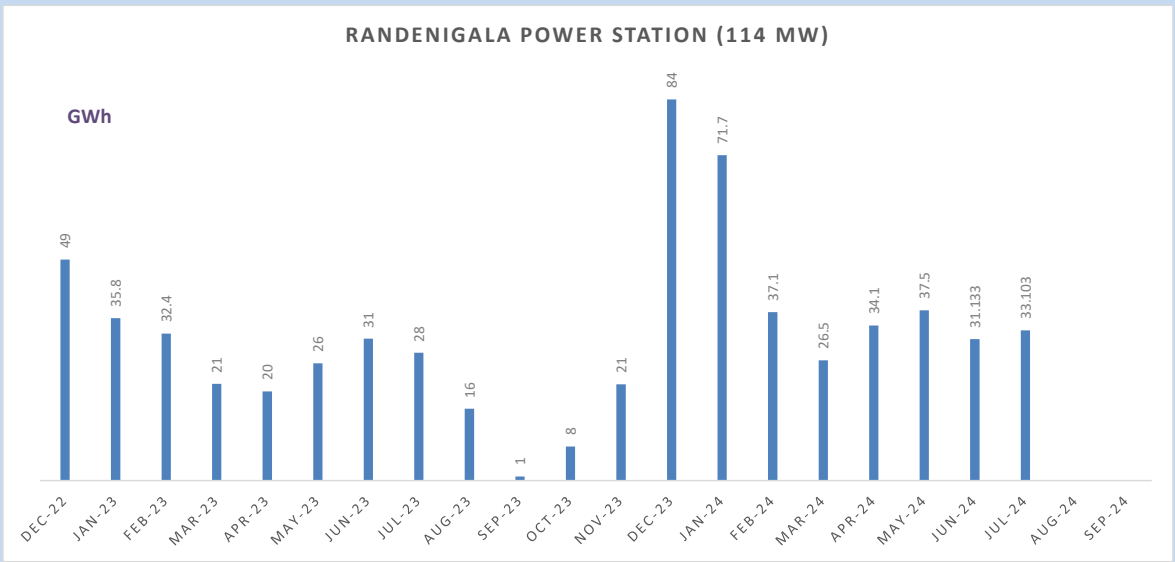
JUL-24
AUG-24
SEP-24


RANDENIGALA POWER STATION (114 MW)
GWh
49
35.8
32.4
21
20
26
31
28
16
1
8
21
84
71.7
37.1
26.5
34.1
37.5
31.133
33.103
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
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FEB-24
MAR-24
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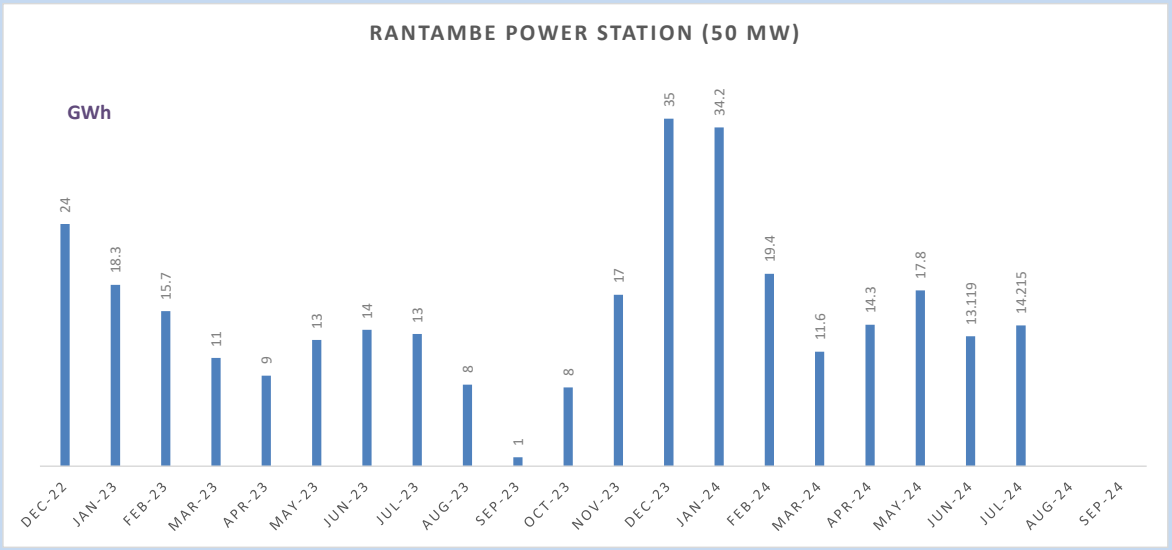
JUL-24
AUG-24
SEP-24


RANTAMBE POWER STATION (50 MW)
GWh
24
18.3
15.7
11
9
13
14
13
8
1
8
17
35
34.2
19.4
11.6
14.3
17.8
13.119
14.215
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
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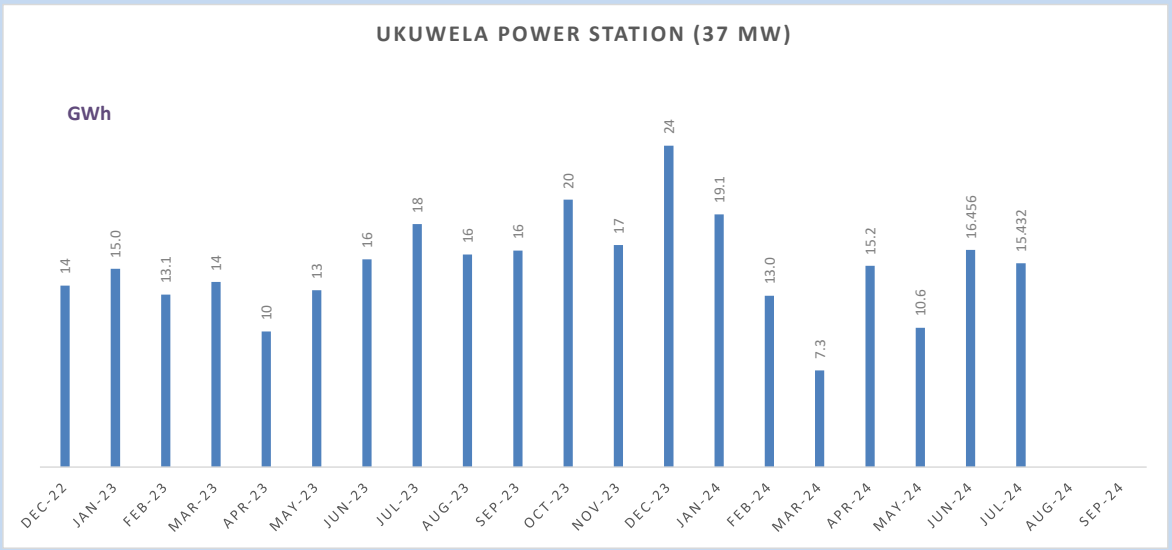
UKUWELA POWER STATION (37 MW)
GWh
14
15.0
13.1
14
10
13
16
18
16
16
20
17
24
19.1
13.0
7.3
15.2
10.6
16.456
15.432
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
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MAR-24
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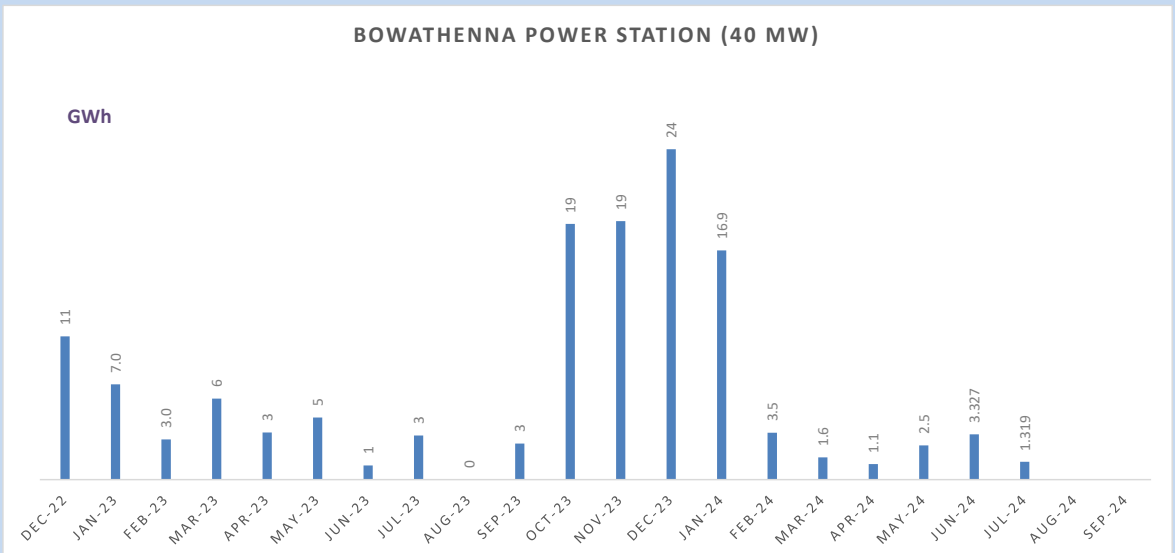
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


BOWATHENNA POWER STATION (40 MW)
GWh
11
7.0
3.0
6
3
5
1
3
0
3
19
19
24
16.9
3.5
1.6
1.1
2.5
3.327
1.319
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
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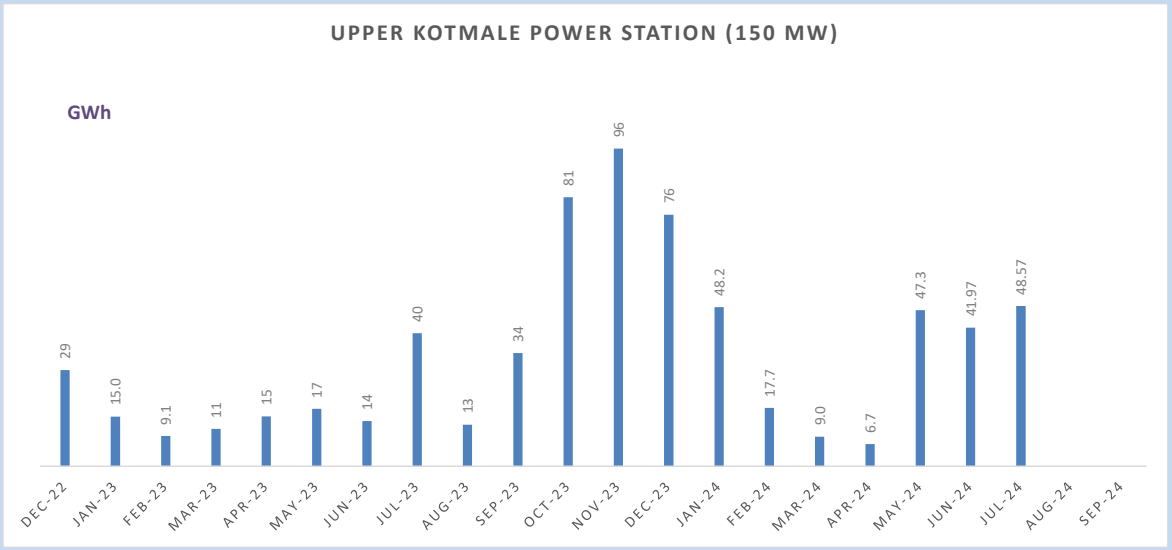
JUL-24
AUG-24
SEP-24


UPPER KOTMALE POWER STATION (150 MW)
GWh
29
15.0
9.1
11
15
17
14
40
13
34
81
96
76
48.2
17.7
9.0
6.7
47.3
41.97
48.57
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
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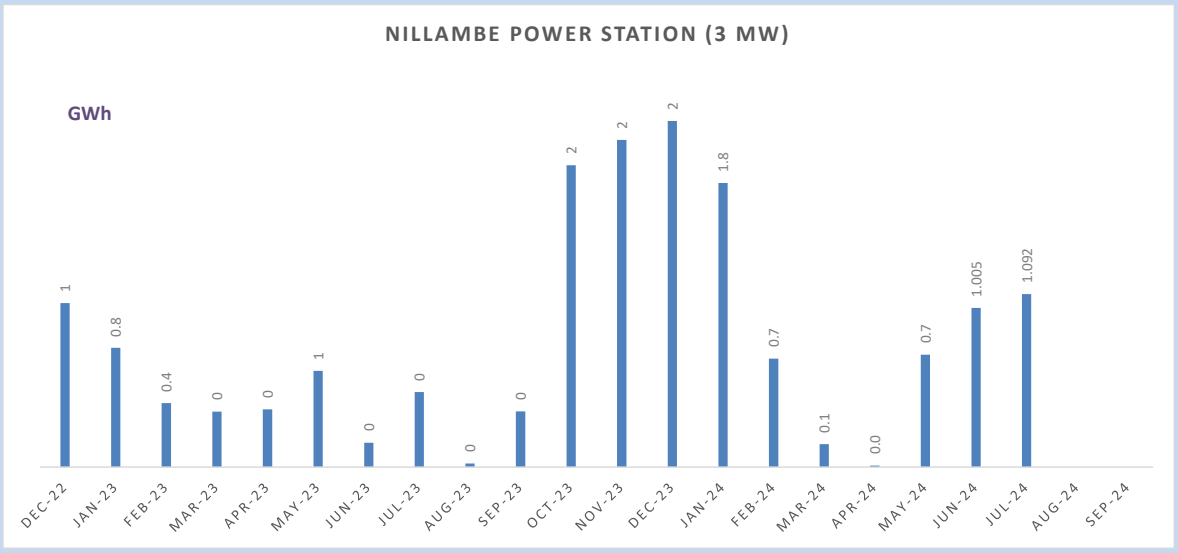
NILLAMBE POWER STATION (3 MW)
GWh
1
0.8
0.4
0
0
1
0
0
0
0
2
2
2
1.8
0.7
0.1
0.0
0.7
1.005
1.092
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
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FEB-24
MAR-24
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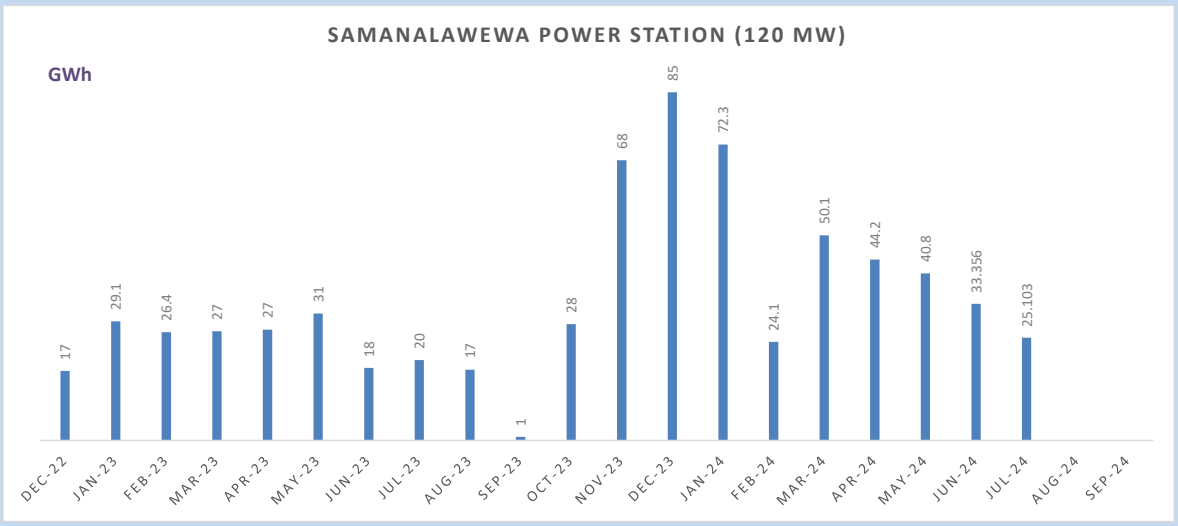
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


SAMANALAWEWA POWER STATION (120 MW)
GWh
17
29.1
26.4
27
27
31
18
20
17
1
28
68
85
72.3
24.1
50.1
44.2
40.8
33.356
25.103
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
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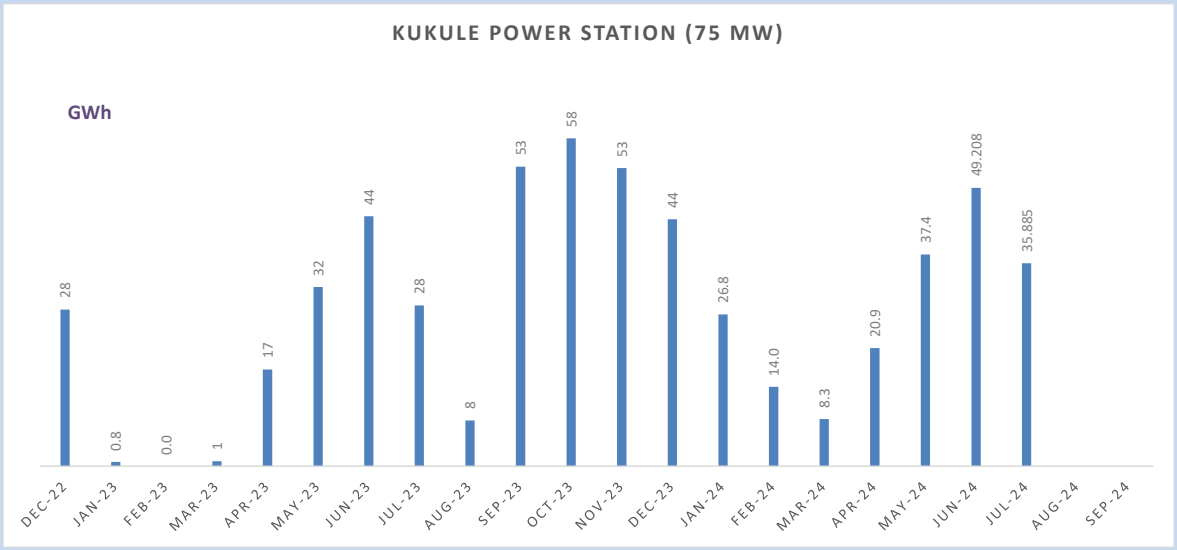
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


KUKULE POWER STATION (75 MW)
GWh
28
0.8
0.0
1
17
32
44
28
8
53
58
53
44
26.8
14.0
8.3
20.9
37.4
49.208
35.885
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
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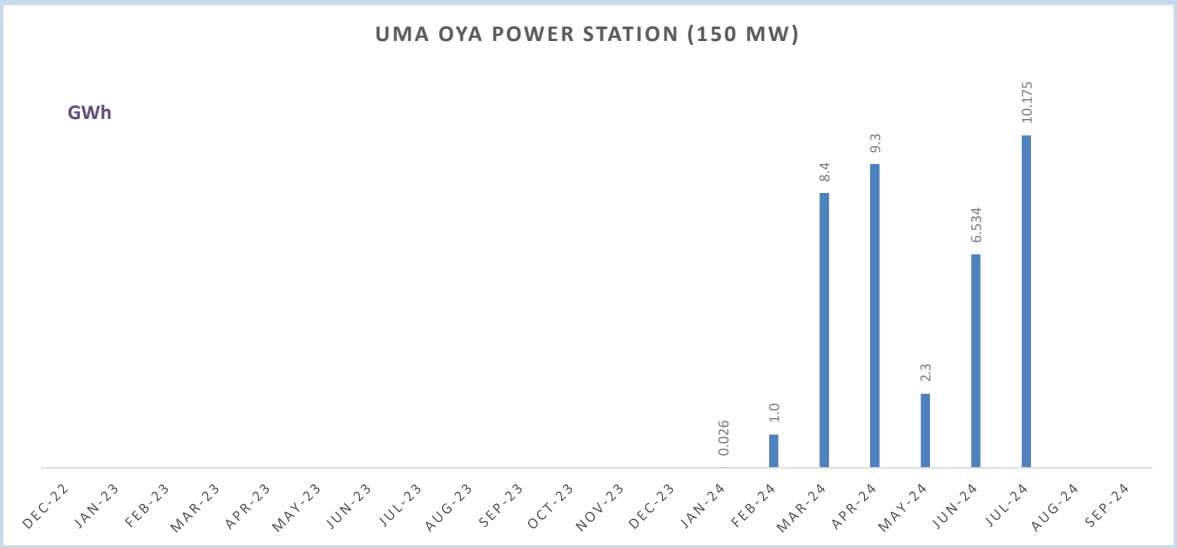
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


UMA OYA POWER STATION (150 MW)
GWh
0.026
1.0
8.4
9.3
2.3
6.534
10.175
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
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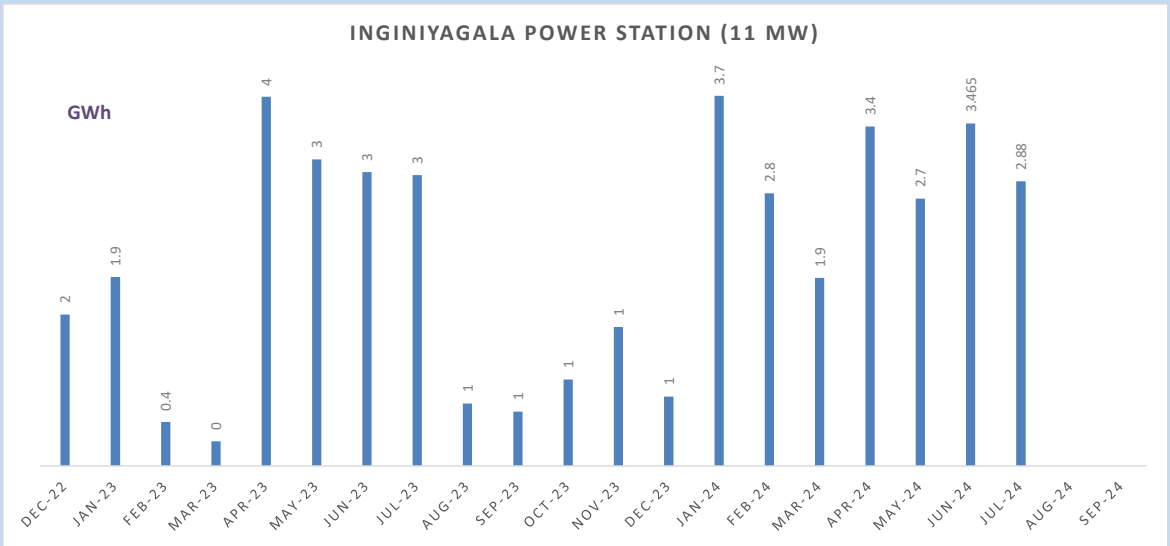
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


INGINIYAGALA POWER STATION (11 MW)
GWh
2
1.9
0.4
0
4
3
3
3
1
1
1
1
1
3.7
2.8
1.9
3.4
2.7
3.465
2.88
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
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MAY-24
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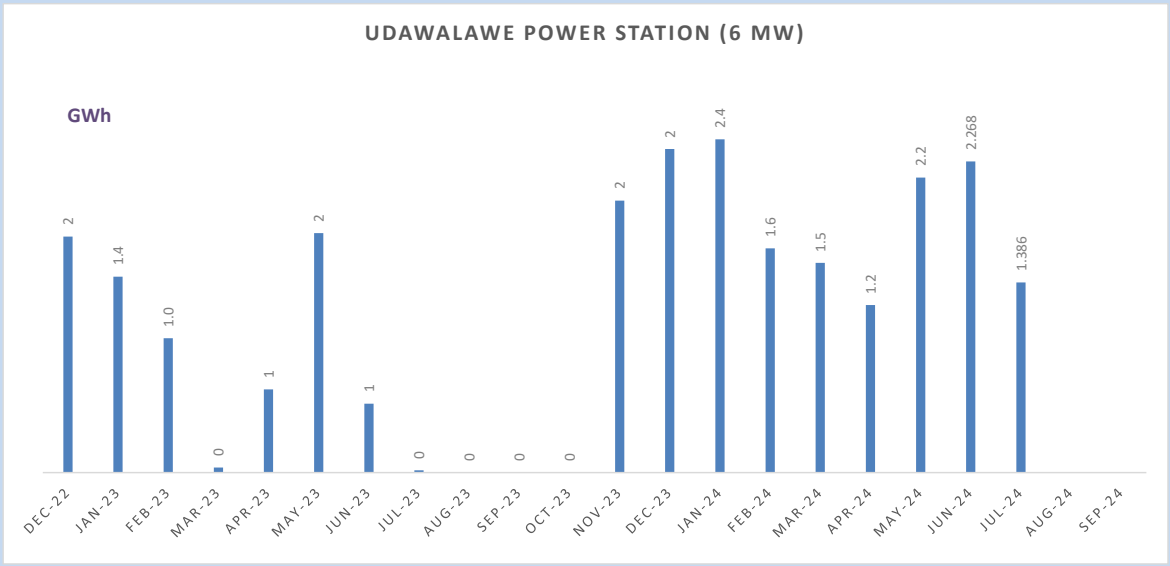
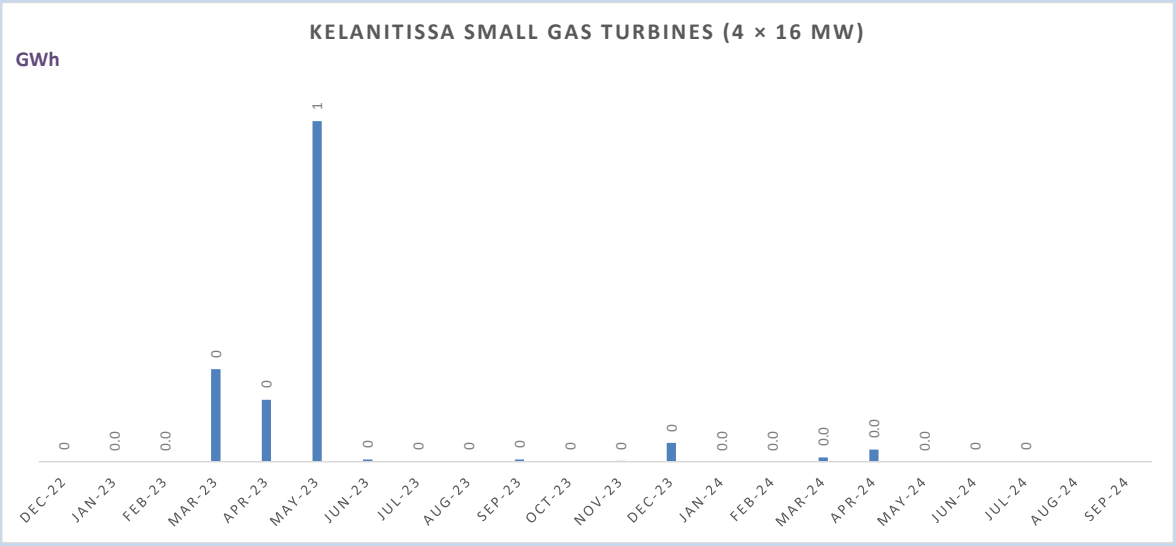
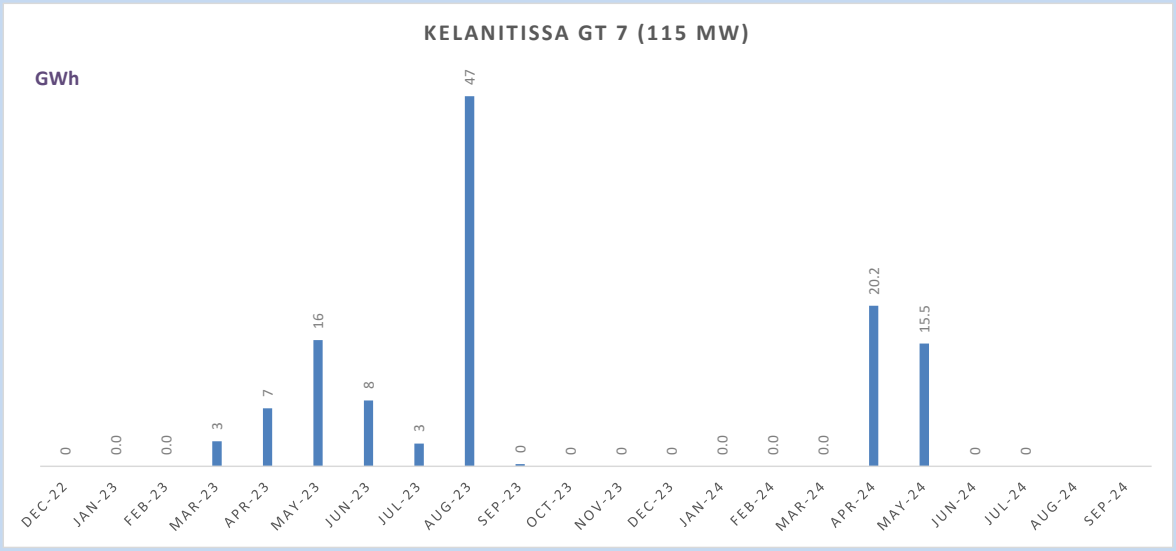
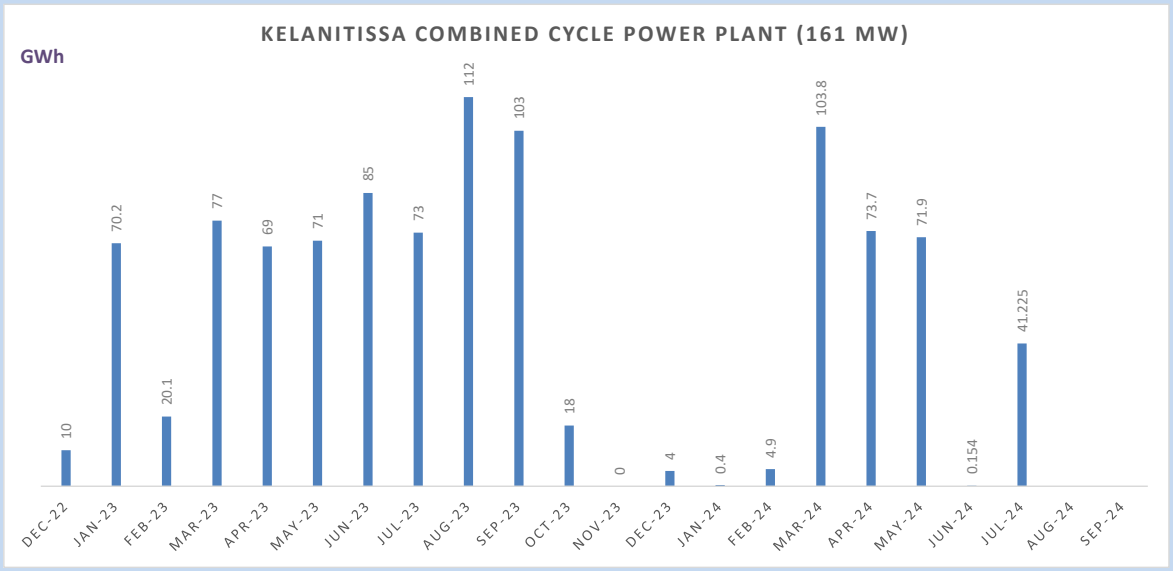
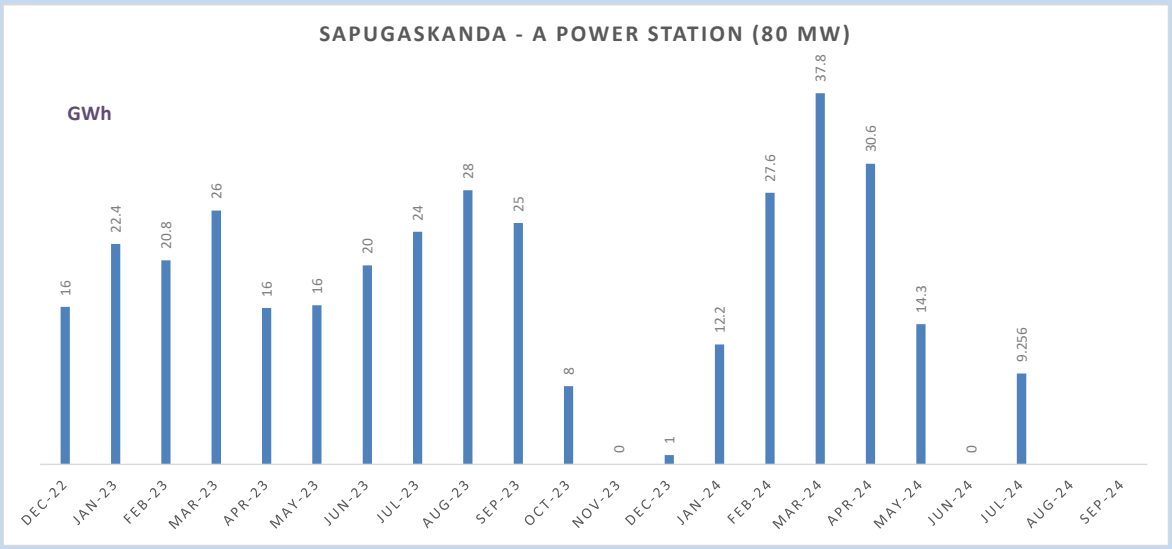
JUL-24
AUG-24
SEP-24

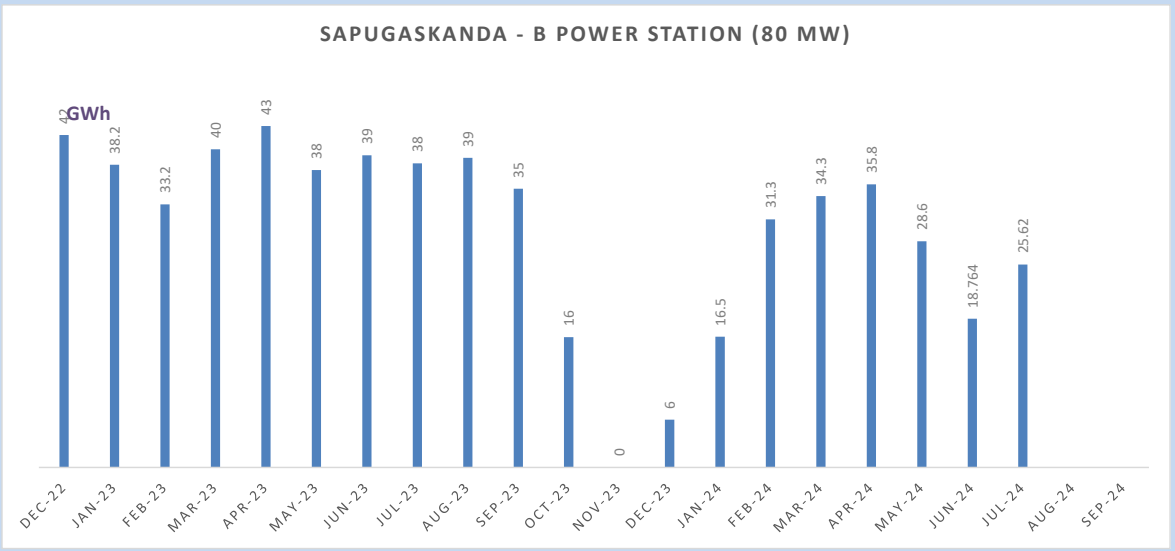

UDAWALAWE POWER STATION (6 MW)
GWh
2
1.4
1.0
0
1
2
1
0
0
0
0
2
2
2.4
1.6
1.5
1.2
2.2
2.268
1.386
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

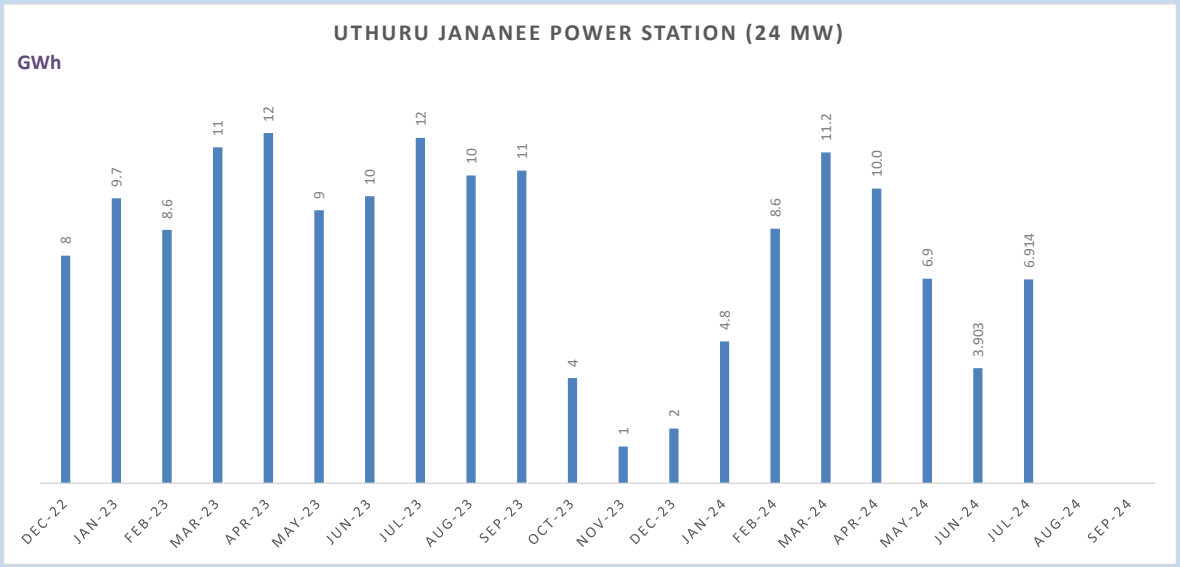

KELANITISSA SMALL GAS TURBINES (4 × 16 MW)
GWh
0
0.0
0.0
0
0
1
0
0
0
0
0
0
0
0.0
0.0
0.0
0.0
0.0
0
0
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

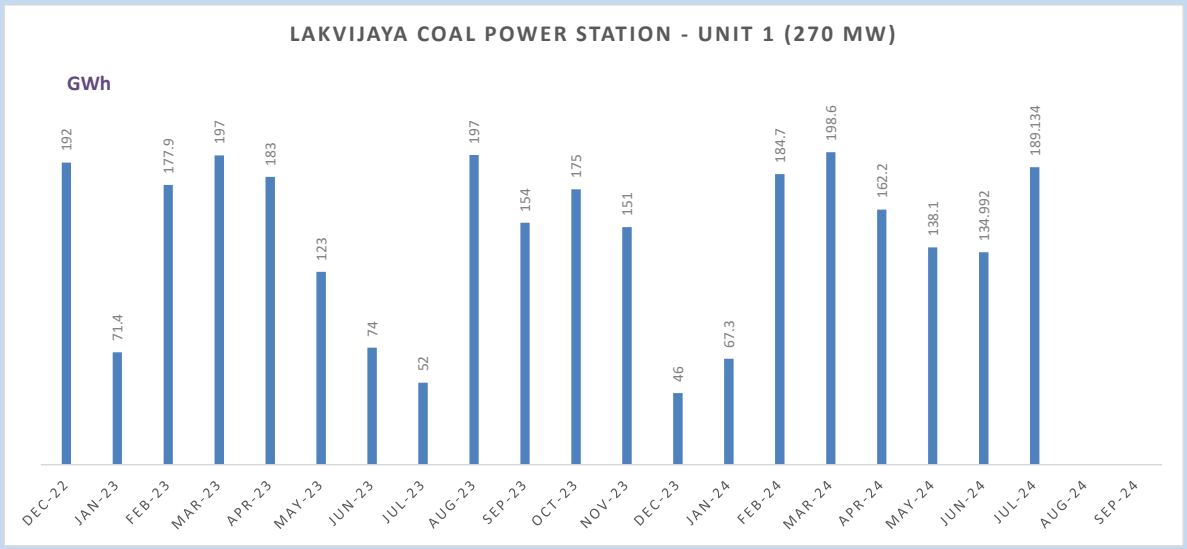

KELANITISSA GT 7 (115 MW)
GWh
0
0.0
0.0
3
7
16
8
3
47
0
0
0
0
0.0
0.0
0.0
20.2
15.5
0
0
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

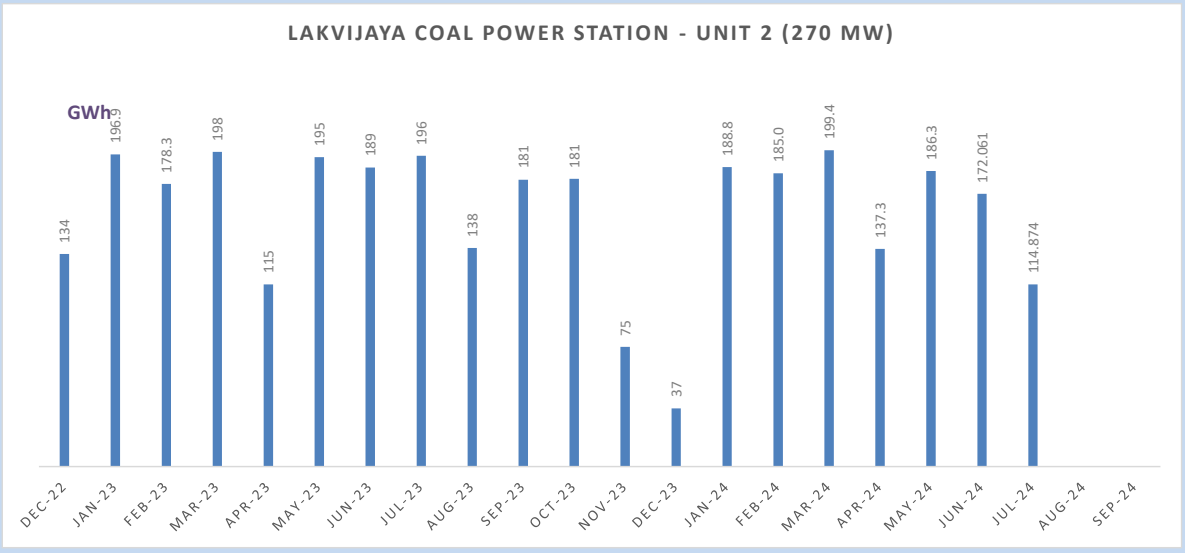

KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)
GWh
10
70.2
20.1
77
69
71
85
73
112
103
18
0
4
0.4
4.9
103.8
73.7
71.9
0.154
41.225
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

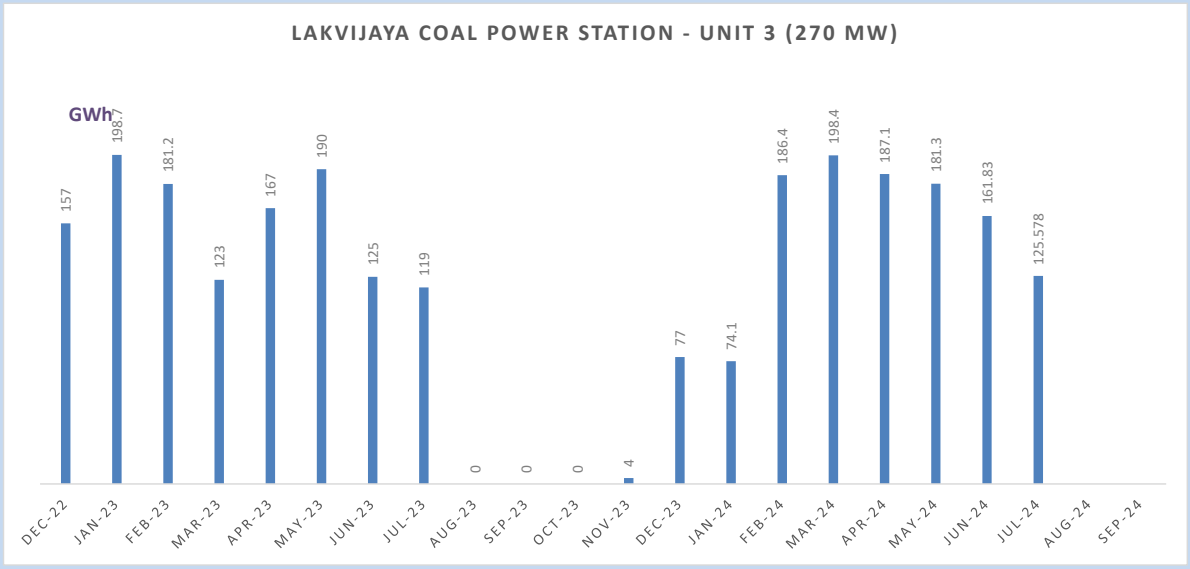

SAPUGASKANDA - A POWER STATION (80 MW)
GWh
16
22.4
20.8
26
16
16
20
24
28
25
8
0
1
12.2
27.6
37.8
30.6
14.3
0
9.256
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

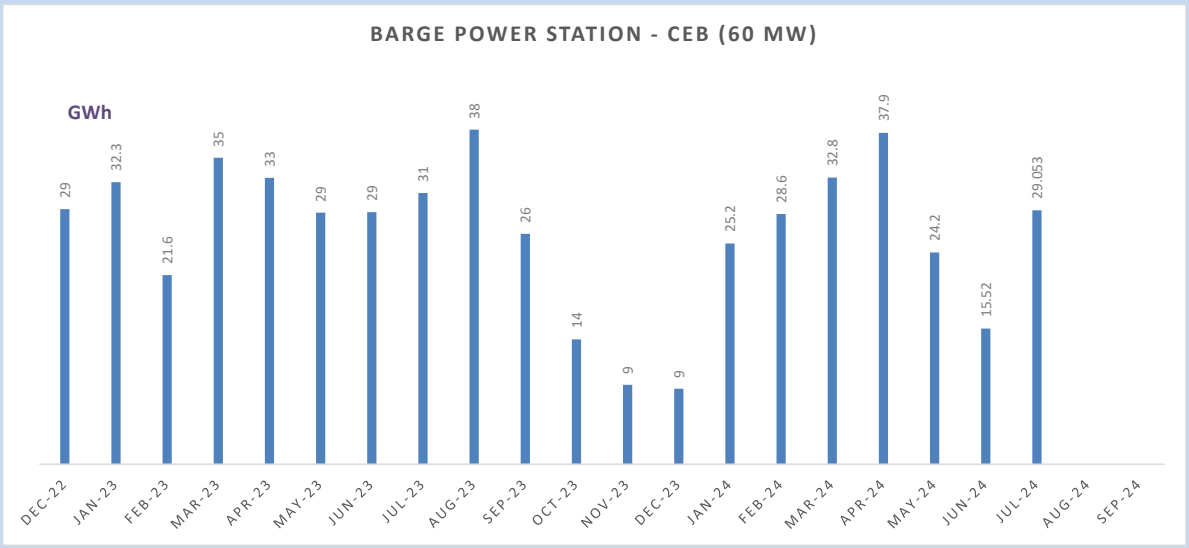

SAPUGASKANDA - B POWER STATION (80 MW)
GWh
38.2
33.2
40
43
38
39
38
39
35
16
0
6
16.5
31.3
34.3
35.8
28.6
18.764
25.62
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

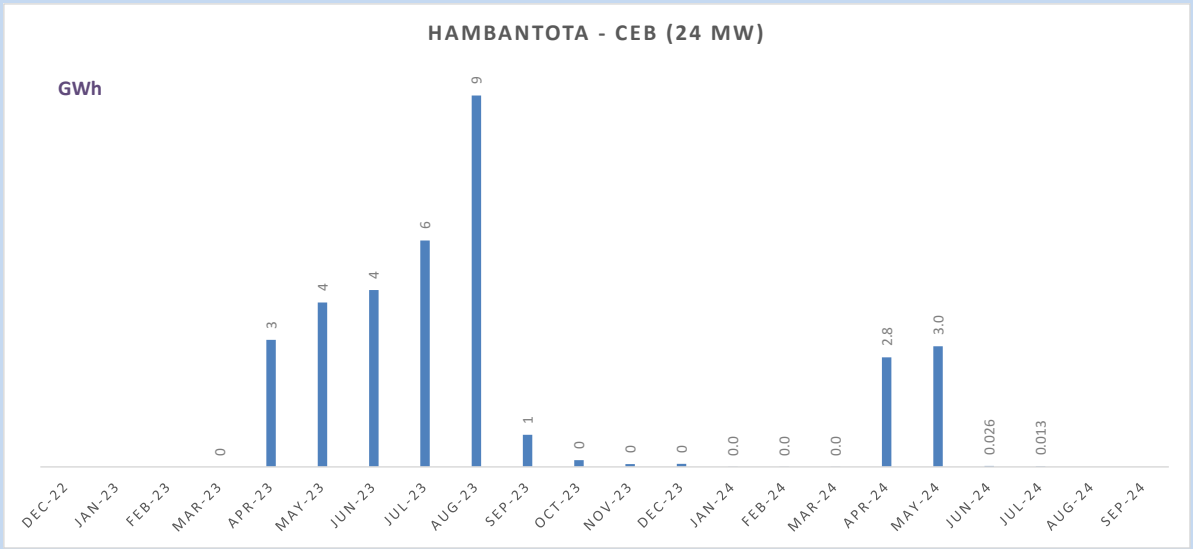

UTHURU JANANEE POWER STATION (24 MW)
GWh
8
9.7
8.6
11
12
9
10
12
10
11
4
1
2
4.8
8.6
11.2
10.0
6.9
3.903
6.914
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

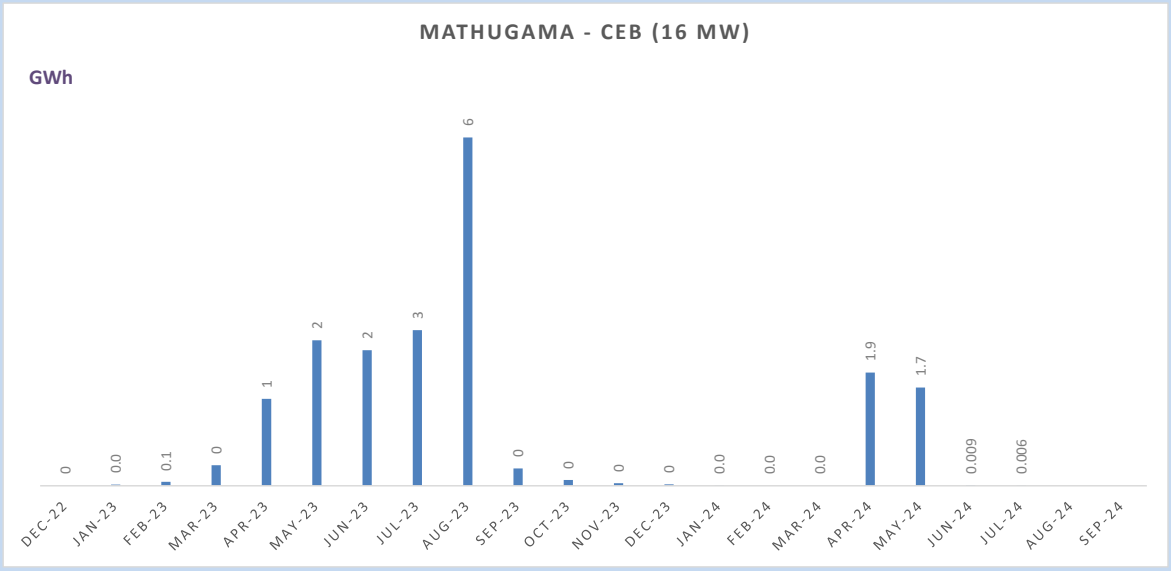

LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)
GWh
192
71.4
177.9
197
183
123
74
52
197
154
175
151
46
67.3
184.7
198.6
162.2
138.1
134.992
189.134
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

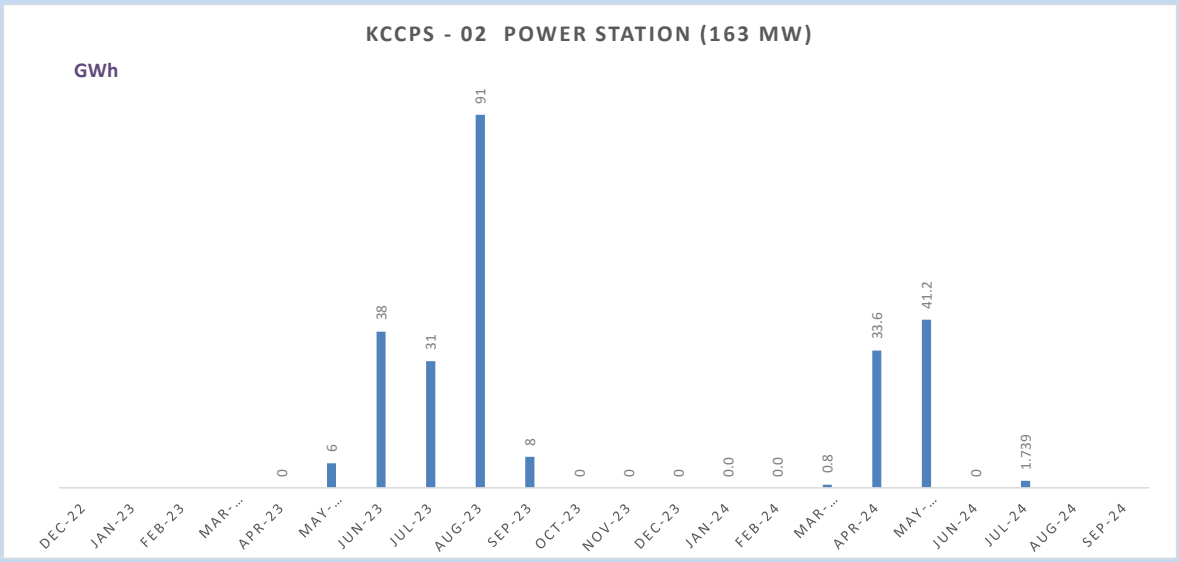

LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)
GWh
134
196.9
178.3
198
115
195
189
196
138
181
181
75
37
188.8
185.0
199.4
137.3
186.3
172.061
114.874
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

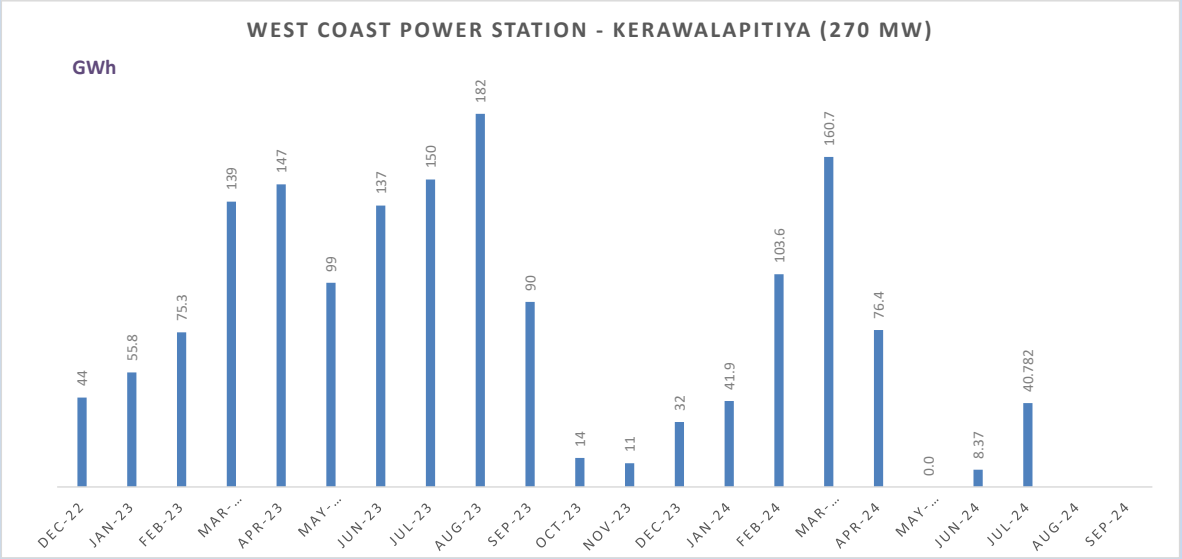

LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)
GWh
157
198.7
181.2
123
167
190
125
119
0
0
0
4
77
74.1
186.4
198.4
187.1
181.3
161.83
125.578
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

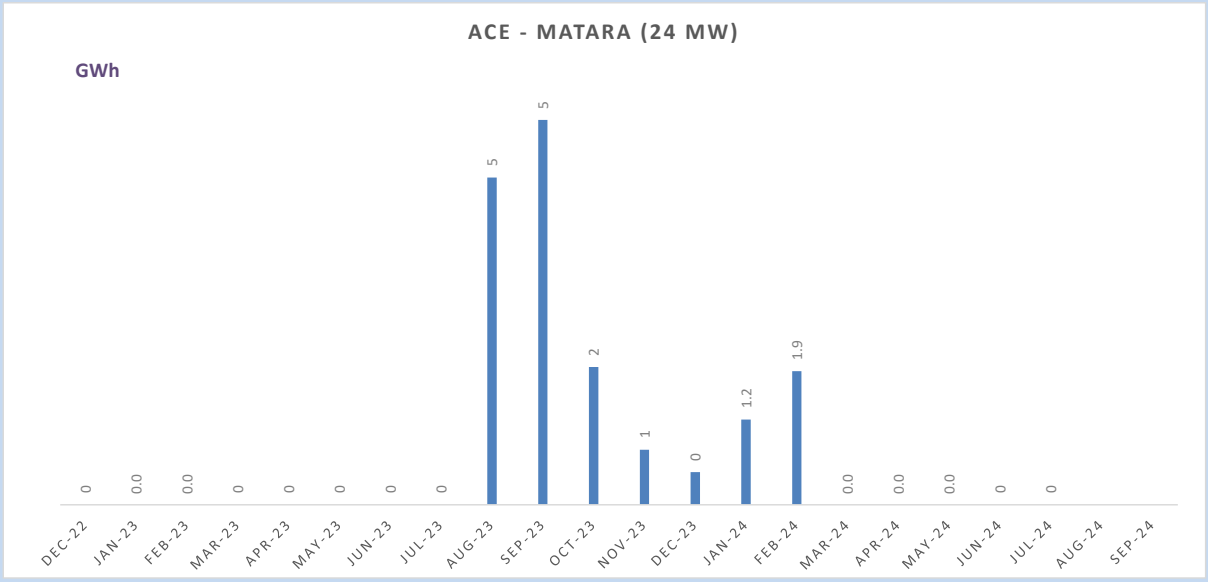

BARGE POWER STATION - CEB (60 MW)
GWh
29
32.3
21.6
35
33
29
29
31
38
26
14
9
9
25.2
28.6
32.8
37.9
24.2
15.52
29.053
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

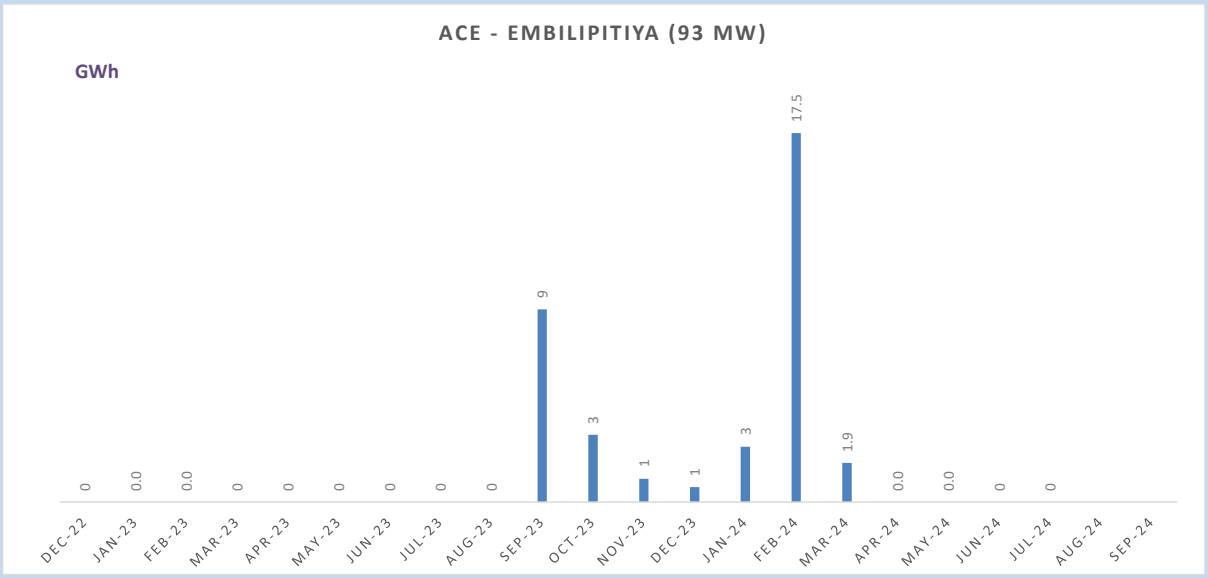

HAMBANTOTA - CEB (24 MW)
GWh
0
3
4
4
6
9
1
0
0
0
0.0
0.0
0.0
2.8
3.0
0.026
0.013
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


MATHUGAMA - CEB (16 MW)
GWh
0
0.0
0.1
0
1
2
2
3
6
0
0
0
0
0.0
0.0
0.0
1.9
1.7
0.009
0.006
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


KCCPS - 02 POWER STATION (163 MW)
GWh
0
6
38
31
91
8
0
0
0
0.0
0.0
0.8
33.6
41.2
0
1.739
DEC-22
JAN-23
FEB-23
MAR-...
APR-23
MAY-...
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-...
APR-24
MAY-...
JUN-24
JUL-24
AUG-24
SEP-24


WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)
GWh
44
55.8
75.3
139
147
99
137
150
182
90
14
11
32
41.9
103.6
160.7
76.4
0.0
8.37
40.782
DEC-22
JAN-23
FEB-23
MAR-...
APR-23
MAY-...
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-...
APR-24
MAY-...
JUN-24
JUL-24
AUG-24
SEP-24


ACE - MATARA (24 MW)
GWh
0
0.0
0.0
0
0
0
0
0
5
5
2
1
0
1.2
1.9
0.0
0.0
0.0
0
0
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24


ACE - EMBILIPITIYA (93 MW)
GWh
0
0.0
0.0
0
0
0
0
0
0
9
3
1
1
3
17.5
1.9
0.0
0.0
0
0
DEC-22
JAN-23
FEB-23
MAR-23
APR-23
MAY-23
JUN-23
JUL-23
AUG-23
SEP-23
OCT-23
NOV-23
DEC-23
JAN-24
FEB-24
MAR-24
APR-24
MAY-24
JUN-24
JUL-24
AUG-24
SEP-24

3 Peak Demand

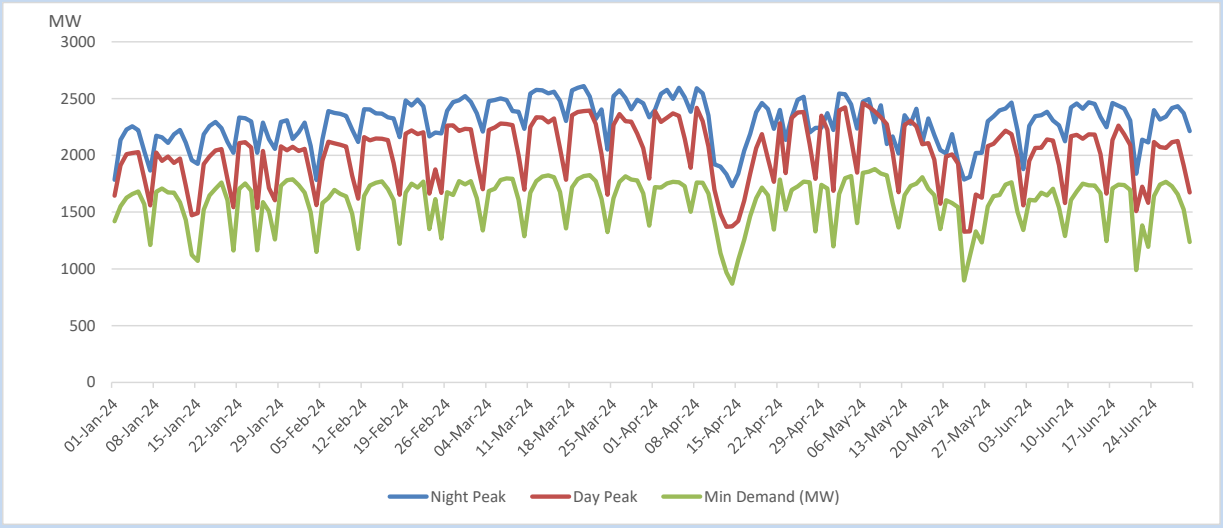
During the month;

Table 05

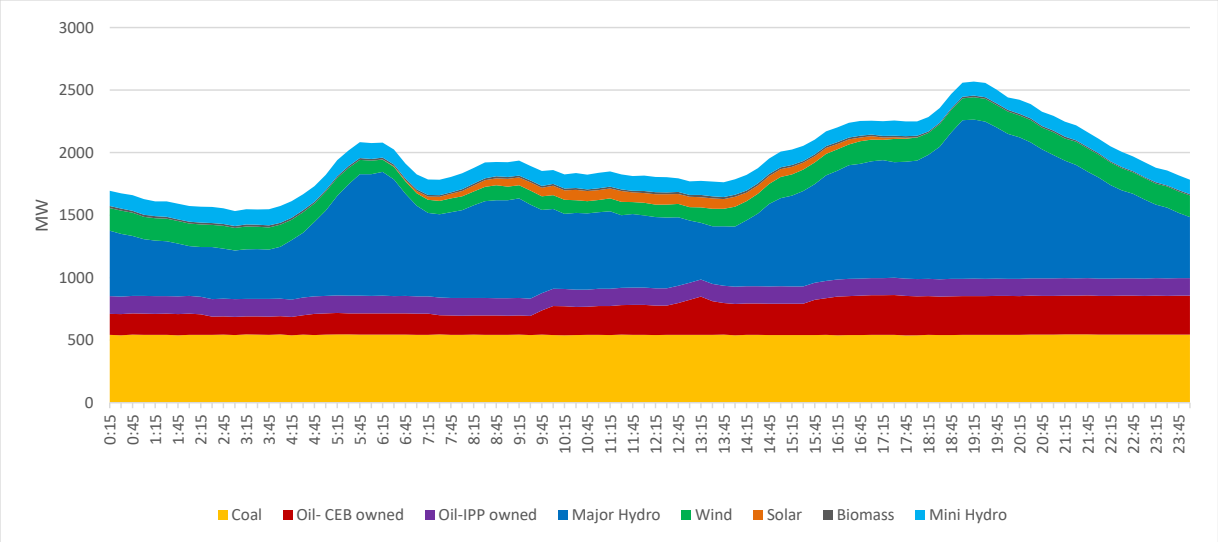
Highest Peak Demand	2,568	MW	on 24-Jul
Lowest Peak Demand	2,090	MW	on 20-Jul
Highest Day Peak Demand	2,279	MW	on 26-Jul
Minimum Demand	1,060	MW	on 21-Jul

*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

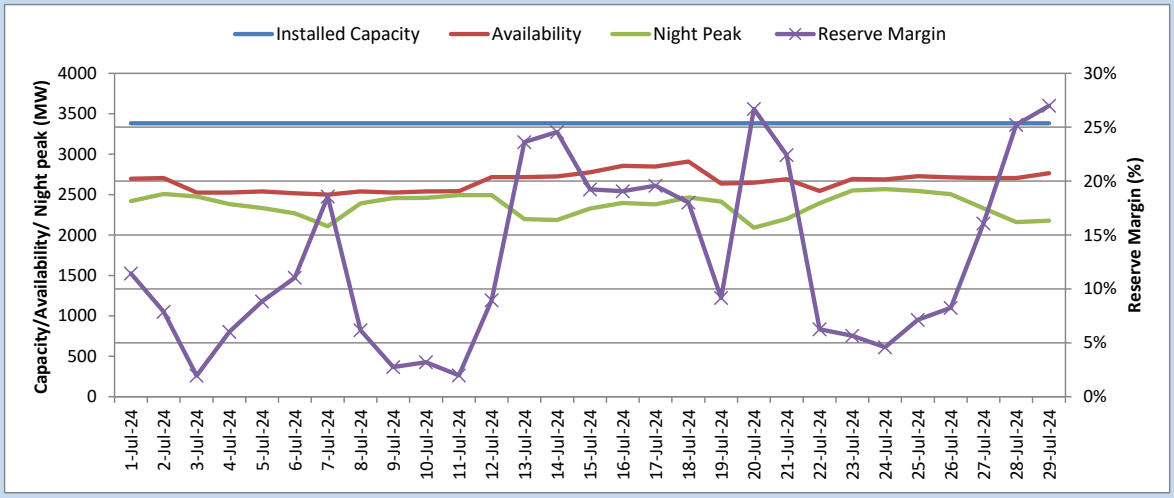
3.1 Demand Variation During the year



3.2 Load Curve of the Day with Highest Night Peak , 24-Jul



3.3 Variation of Reserve Margin During Night Peak



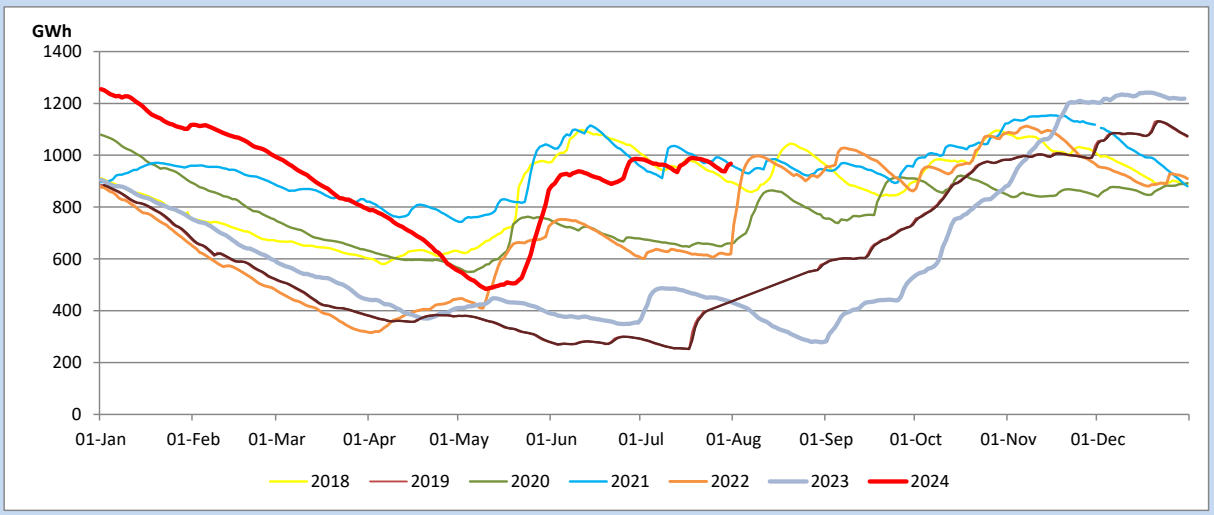
Note:Contribution from NCRE plants is not included

4 Reservoir Statistics

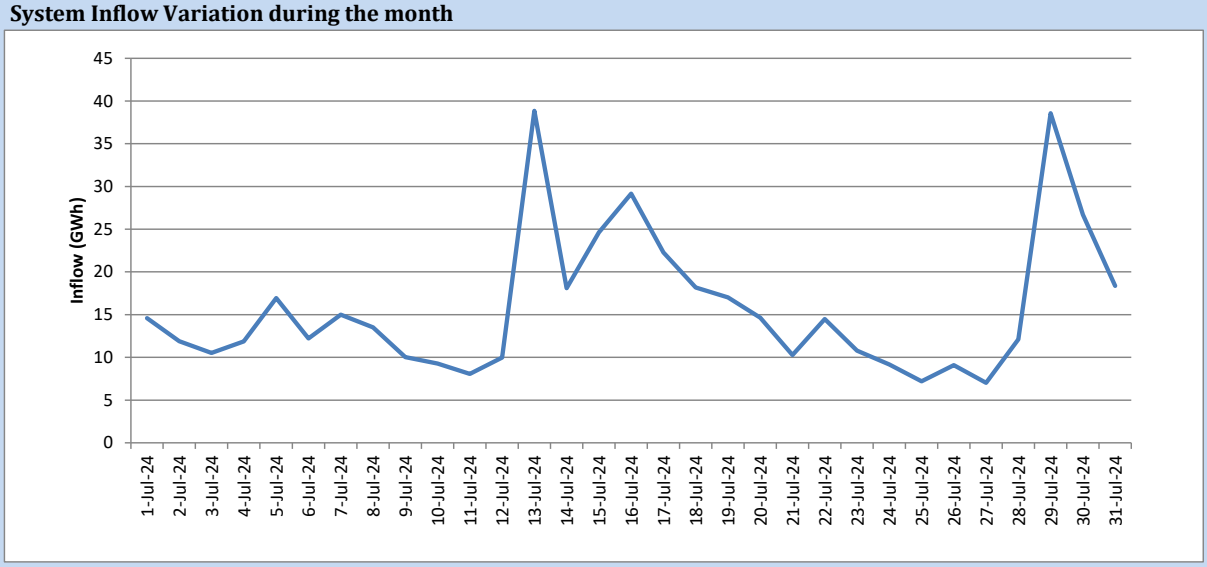
Table 05

Total Reservoir level at the beginning of the month	982.3	GWh
Total Reservoir level at the end of the month	965.5	GWh
Total Inflow	490.6	GWh

4.1 Total Hydro Reservoir- Comparison with Past Years



4.2 System Inflow Variation during the month



4.3 Major Hydro Resrvoir Levels Variation during the year