

Monthly Generation Report

March-24



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

March-24

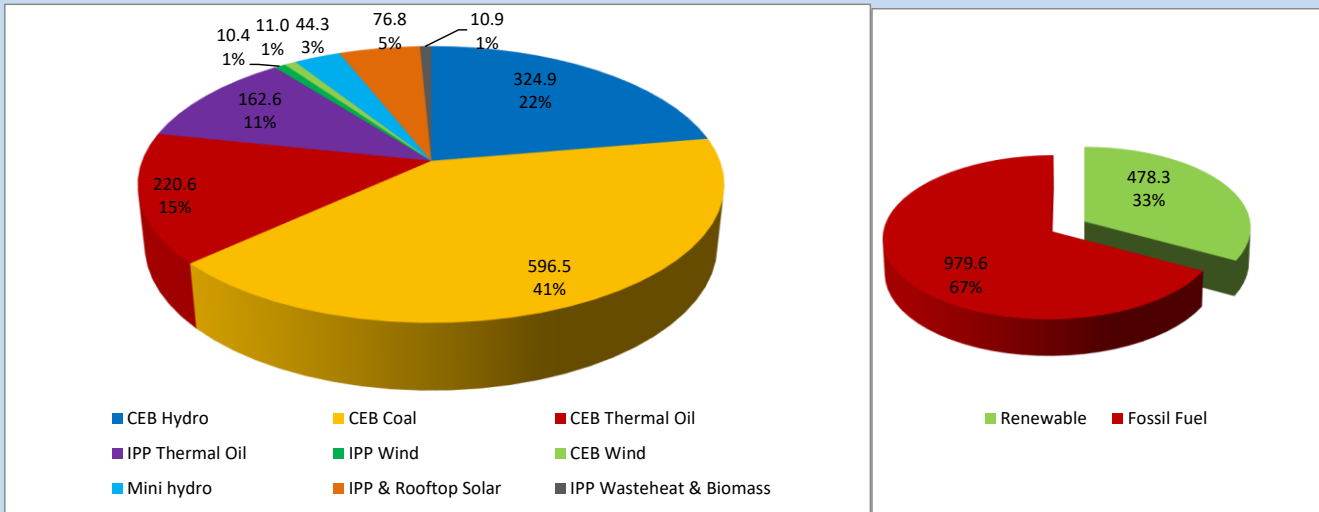


Table 01

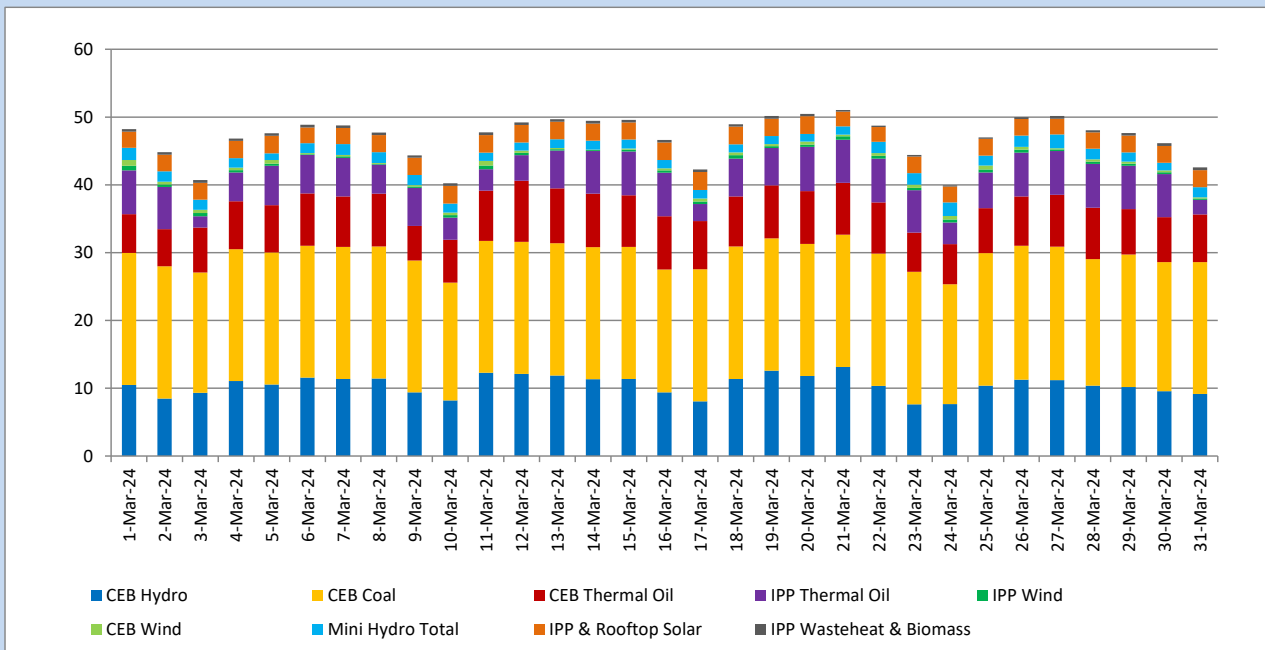
CEB Hydro	325	GWh
CEB Coal	596	GWh
CEB Thermal Oil	221	GWh
IPP Thermal Oil	163	GWh
IPP Wind	10	GWh
CEB Wind	11	GWh
Mini Hydro (Including non telemetered)	44	GWh
IPP Solar (Including estimated figures)	77	GWh
IPP Wasteheat + Biomass	11	GWh
Total Generation (Including estimated figures)	1,458	GWh

Total Generation = 1,458 GWh

Total Estimated Unreserved 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

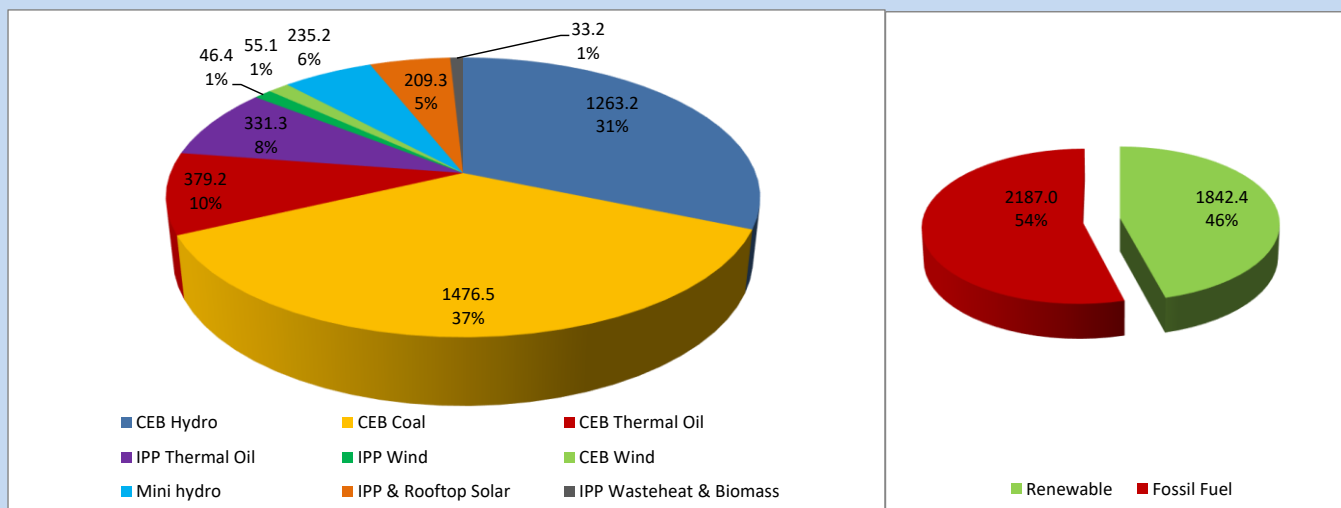


Table 02

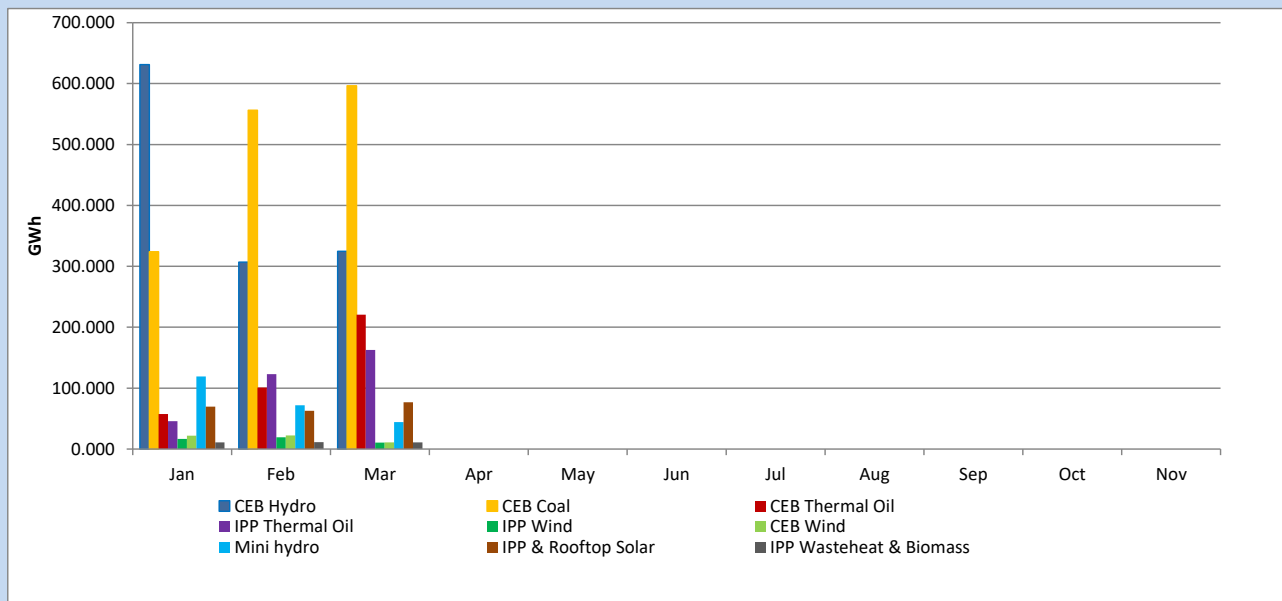
CEB Hydro	1263.18	GWh
CEB Coal	1476.51	GWh
CEB Thermal Oil	379.18	GWh
IPP Thermal Oil	331.30	GWh
IPP Wind	46.38	GWh
CEB Wind	55.12	GWh
Mini Hydro (Including non telemetered)	235.18	GWh
IPP Solar (Including estimated figures)	209.28	GWh
IPP Wasteheat + Biomass	33.22	GWh
Total Generation (Including estimated figures)	4029.35	GWh

Data source - MRR Nov 2023

Table 03

	Installed Capacity (MW)
CEB Hydro	1529
CEB Coal	810
CEB Thermal Oil	781
IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya)	387
IPP Wind	148
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar* (Ordinary)	326
Rooftop Solar* (LT Bulk)	285
Rooftop Solar* (HT Bulk)	79

1.4 Variation of Monthly Generation Mix during the year



2 Major Plant Dispatch

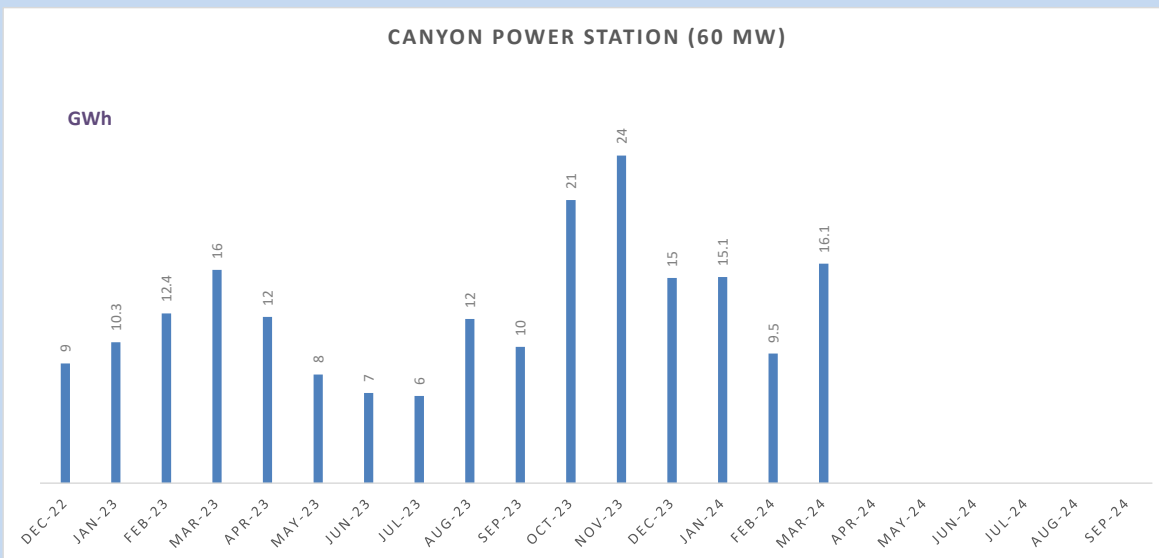
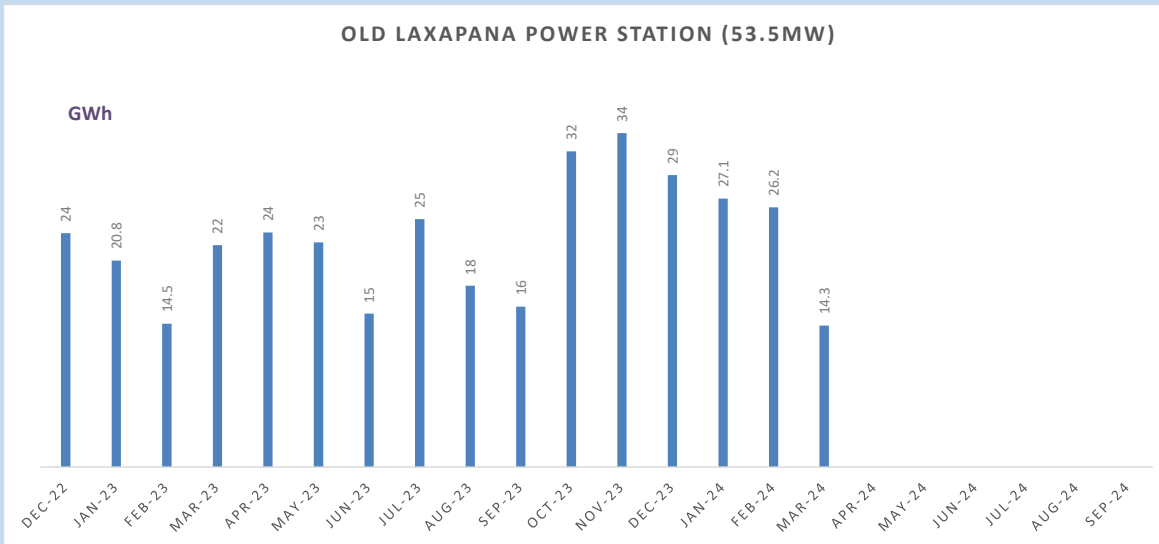
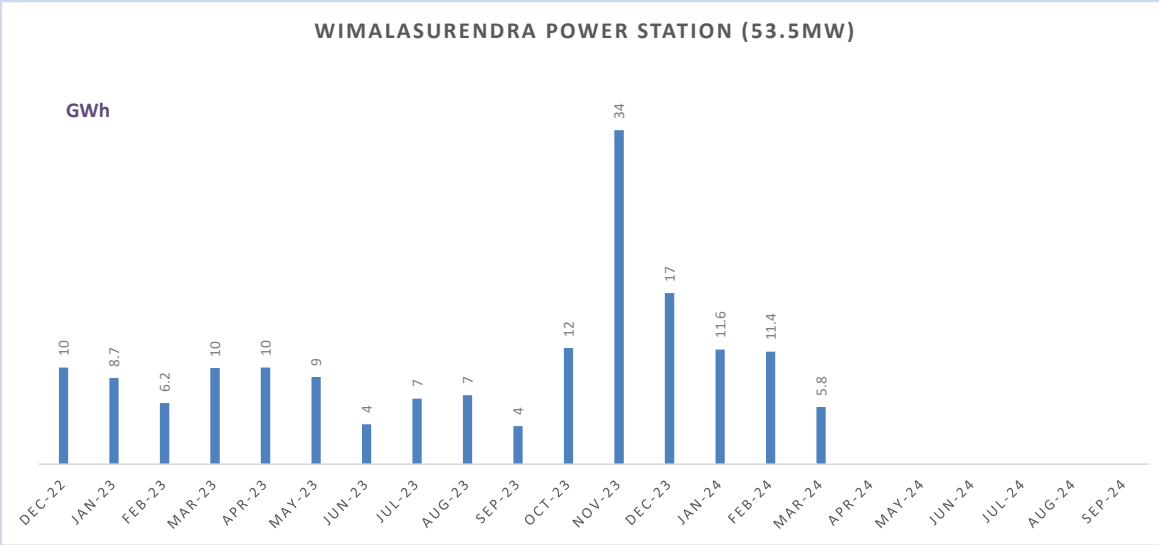
2.1 Dispatch from all Generation Major Plants in

March-24

Table 04

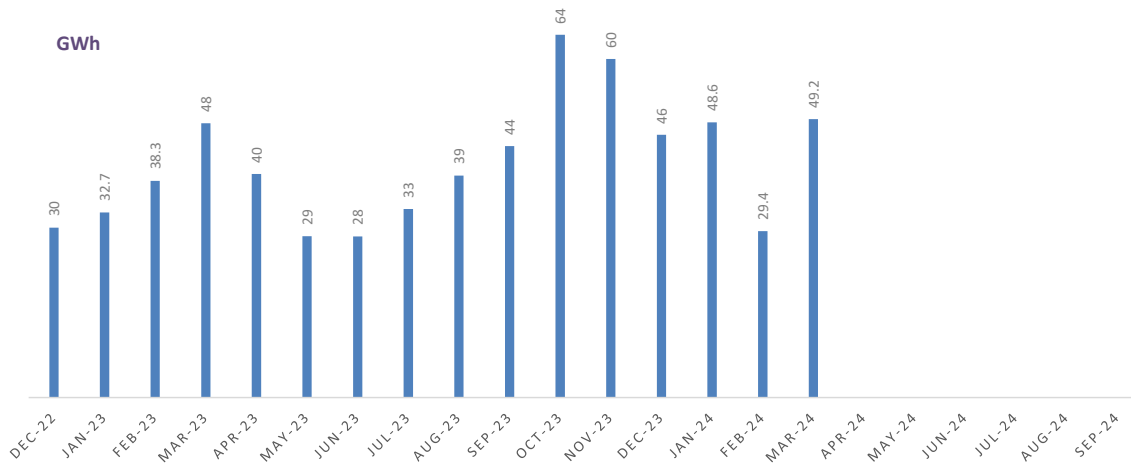
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	5,778	15.5%
Old Laxapana	54	14,281	35.5%
Canyon	60	16,100	36.1%
New Laxapana	100	49,233	66.2%
Polpitiya	90	30,320	45.3%
Broadlands	35	5,428	20.8%
Kotmale	201	17,940	12.0%
Victoria	210	59,455	38.1%
Randenigala	122	26,483	29.2%
Rantambe	50	11,559	31.1%
Ukuwela	40	7,329	24.6%
Bowatenna	40	1,629	5.5%
Upper Kotmale	150	8,954	8.0%
Nilambe	3	145	6.5%
Samanalawewa	120	50,061	56.1%
Kukule	75	8,342	14.9%
Inginiyagala	120	8,407	9.4%
Udawalawe	4	1,528	51.3%
Puttalam Coal I	270	198,625	98.9%
Puttalam Coal II	270	199,429	99.3%
Puttalam Coal III	270	198,394	98.8%
KPS Small GTs	64	11	0.0%
KPS GT 7	115	0	0.0%
KCCP	165	103,818	84.6%
Sapugaskanda A	64	37,764	79.3%
Sapugaskanda B	72	34,261	64.0%
Uthura Janani	24	11,219	62.8%
Barge CEB	60	32,784	73.4%
CEB - Hambantota	24	0	0.0%
CEB - Mathugama	16	0	0.0%
KCCPS -2	163	763	0.6%
ACE Matara	24	0	0.0%
West Coast	270	160,707	80.0%
ACE Embilipitiya	93	1864	2.7%

2.3 Generation of Major Power Plants From Last Year



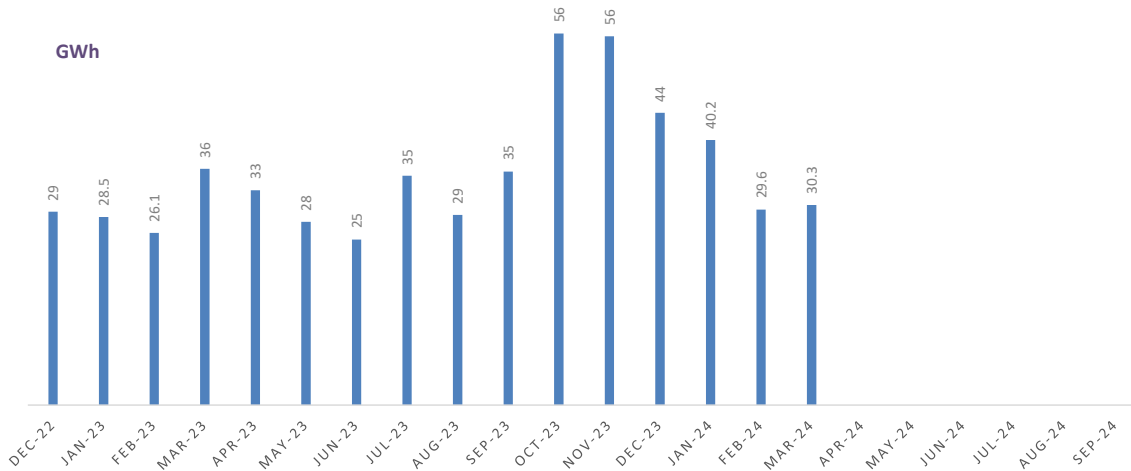
NEW LAXAPANA POWER STATION (115 MW)

GWh



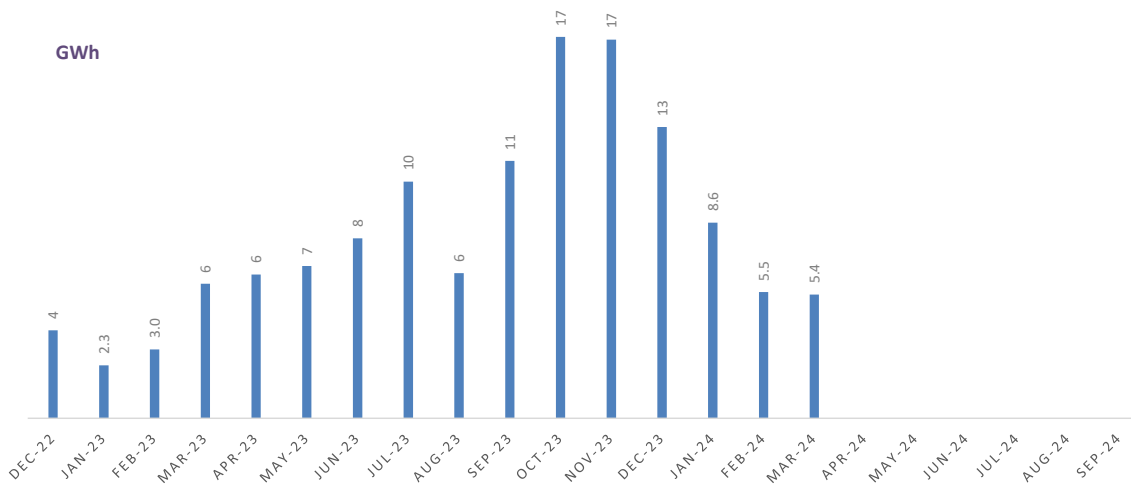
POLPITIYA POWER STATION (90 MW)

GWh



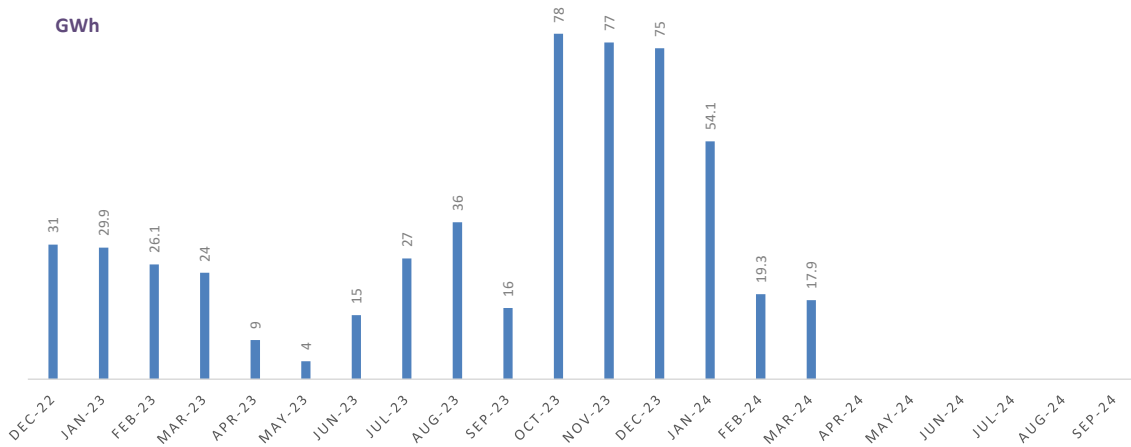
BROADLANDS POWER STATION (35 MW)

GWh



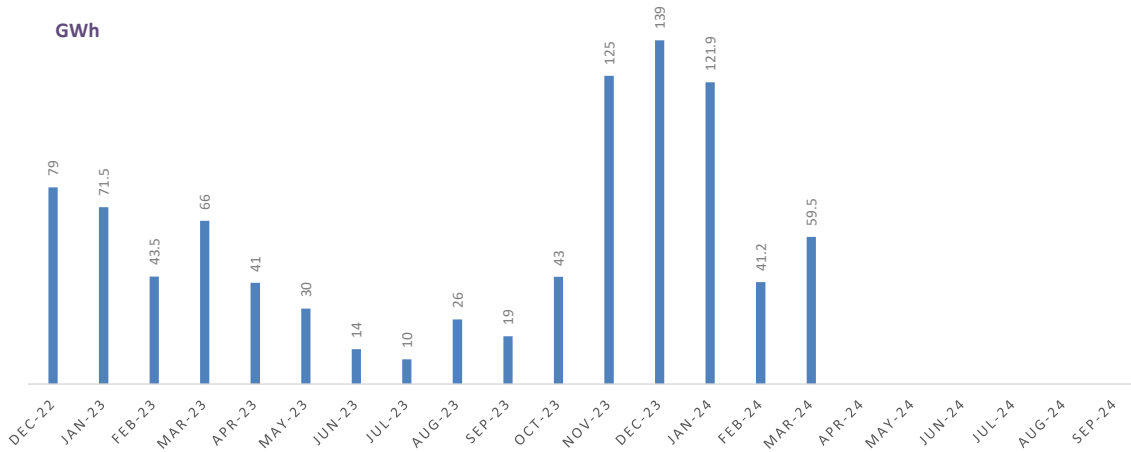
KOTMALE POWER STATION (201 MW)

GWh



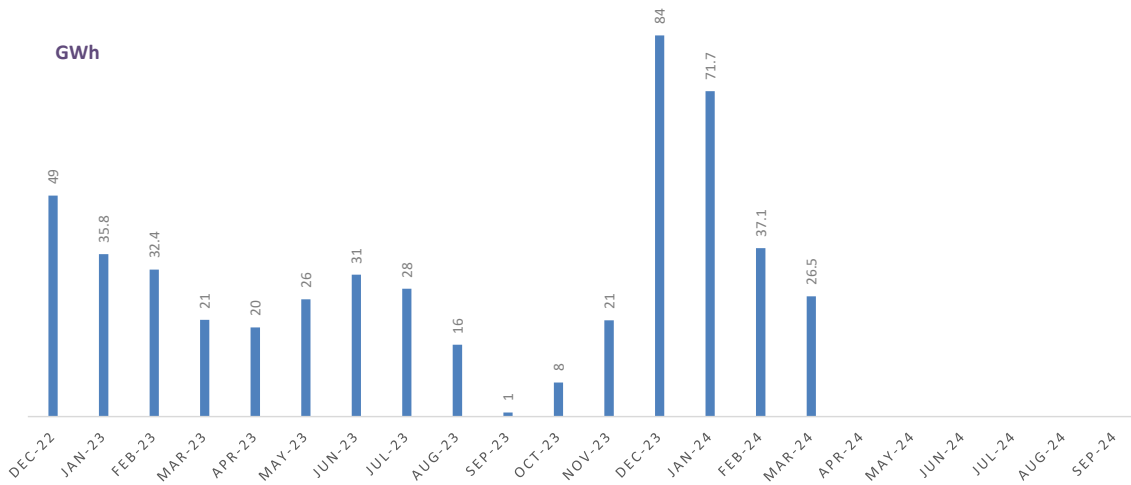
VICTORIA POWER STATION (225 MW)

GWh



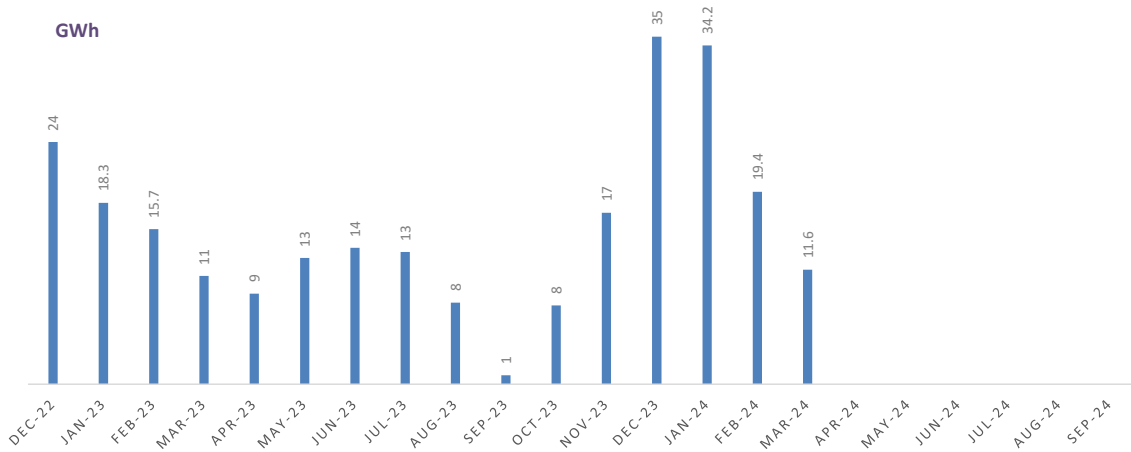
RANDENIGALA POWER STATION (114 MW)

GWh



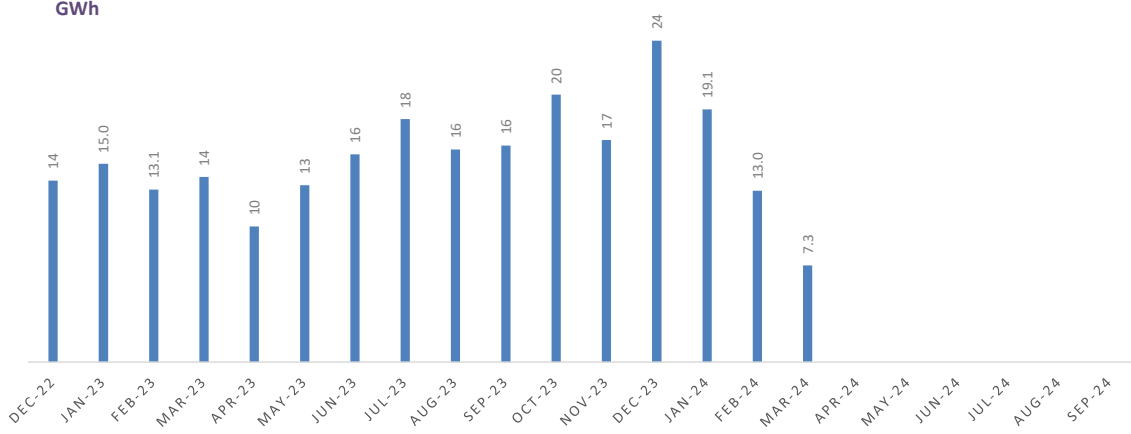
RANTAMBE POWER STATION (50 MW)

GWh



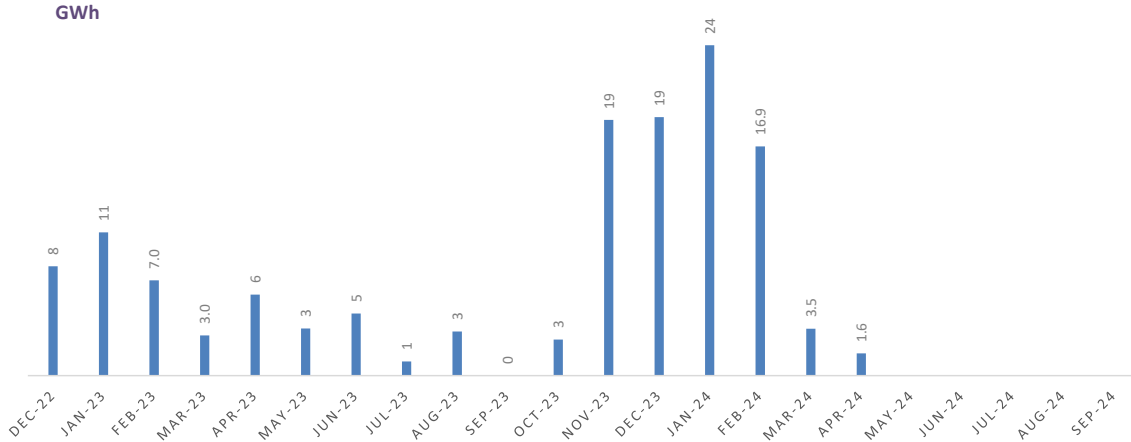
UKUWELA POWER STATION (37 MW)

GWh



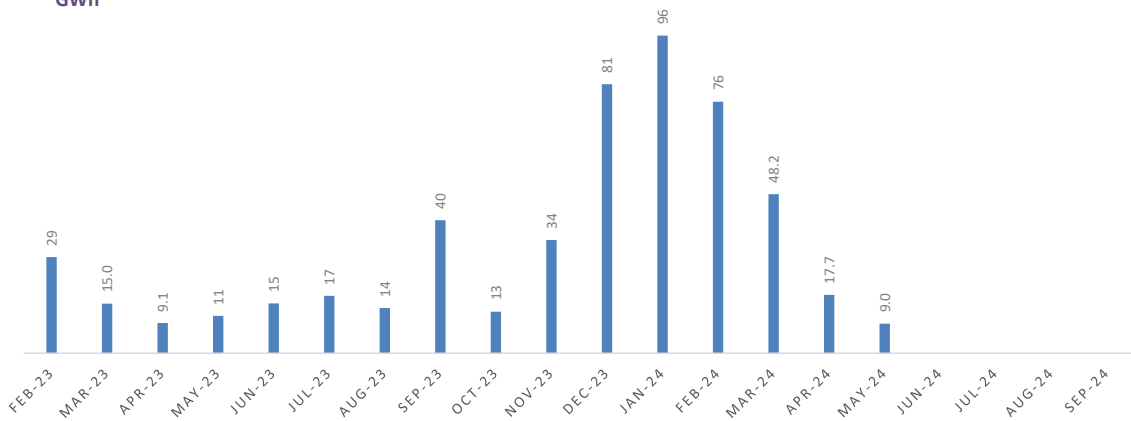
BOWATHENNA POWER STATION (40 MW)

GWh



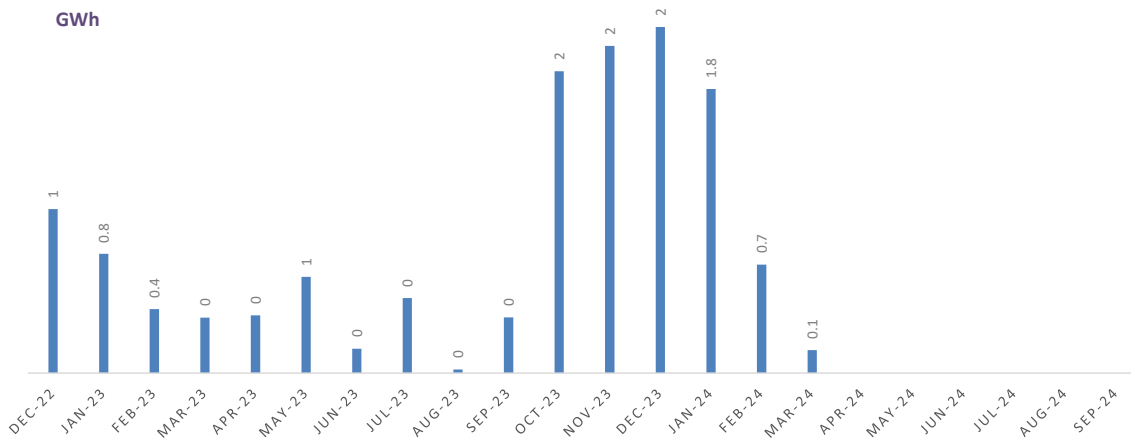
UPPER KOTMALE POWER STATION (150 MW)

GWh



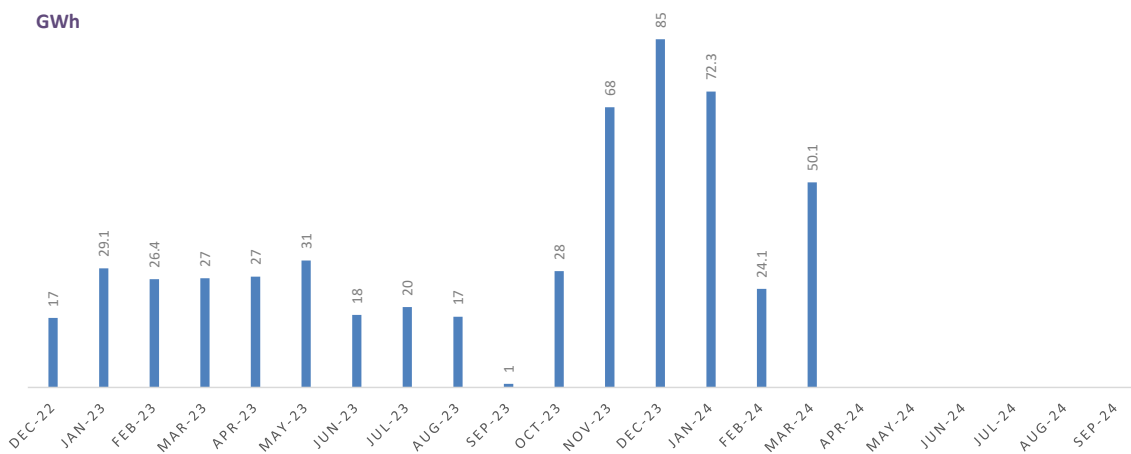
NILLAMBE POWER STATION (3 MW)

GWh



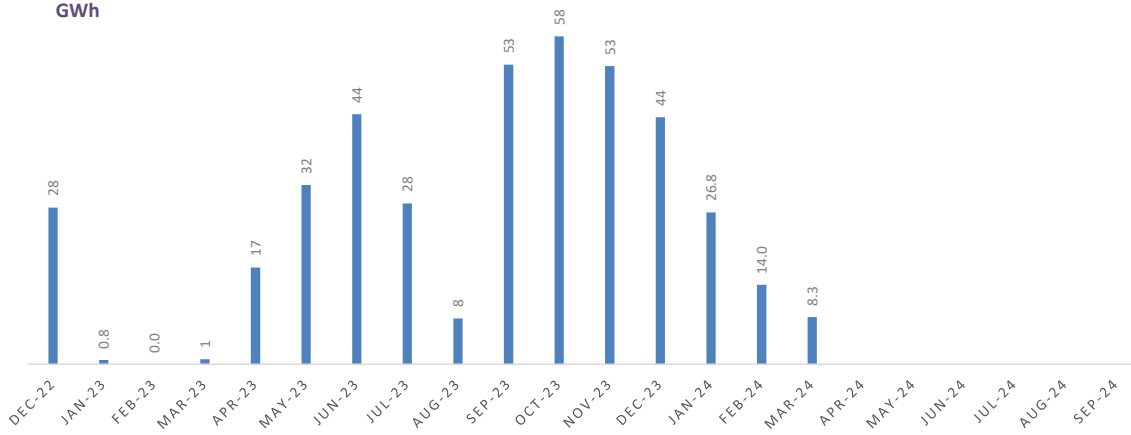
SAMANALAWEWA POWER STATION (120 MW)

GWh



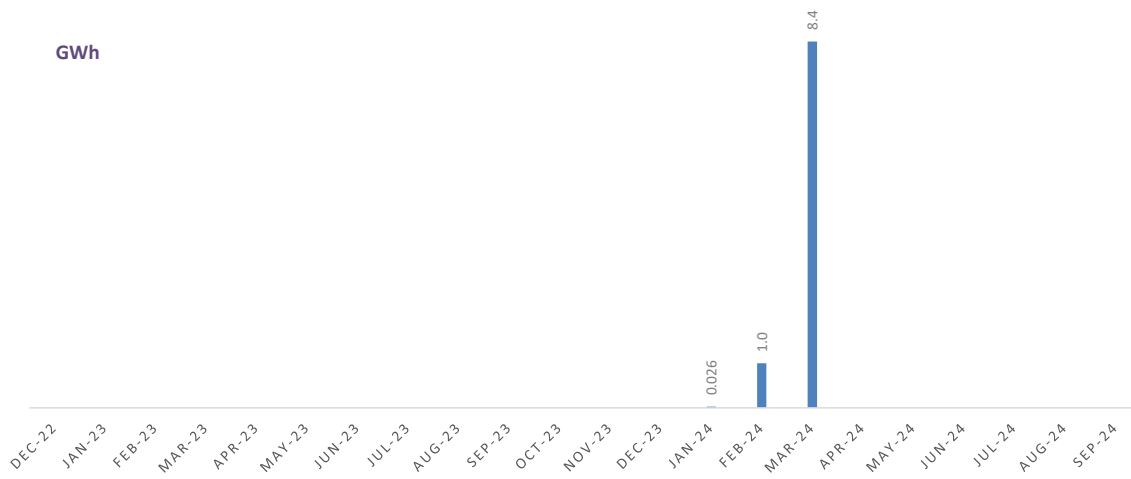
KUKULE POWER STATION (75 MW)

GWh



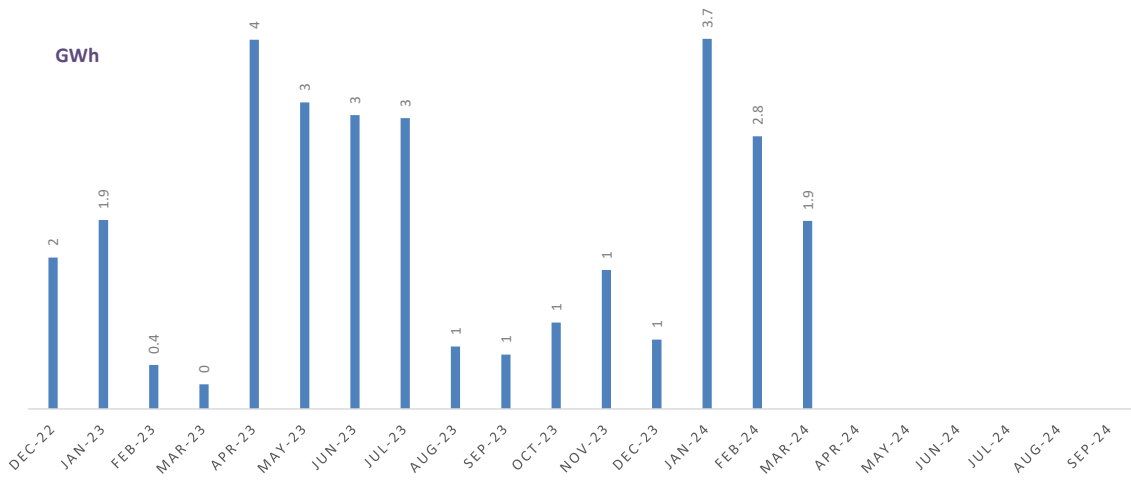
UMA OYA POWER STATION (150 MW)

GWh



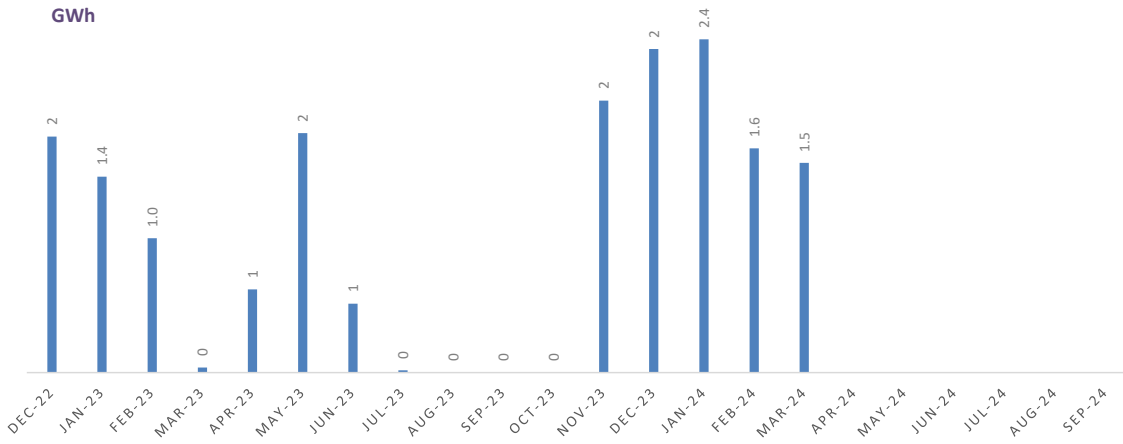
INGINIYAGALA POWER STATION (11 MW)

GWh



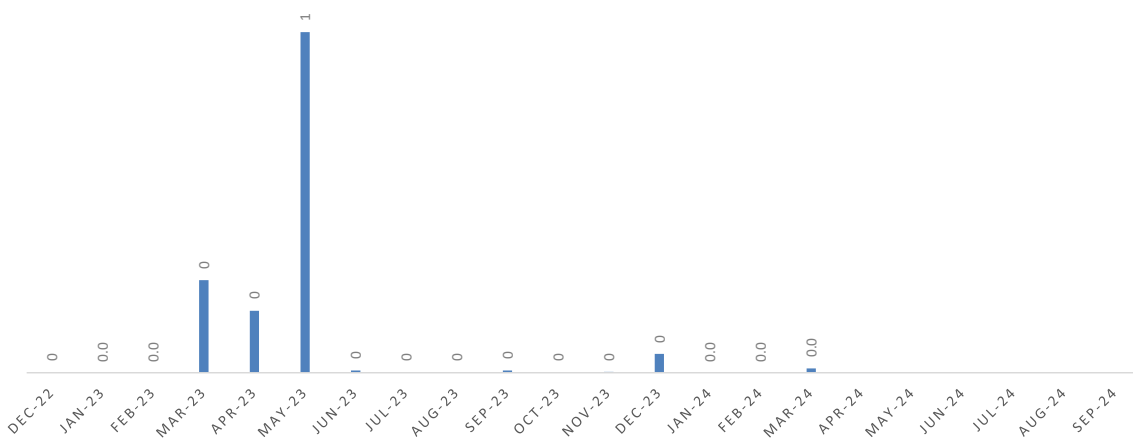
UDAWALAWE POWER STATION (6 MW)

GWh



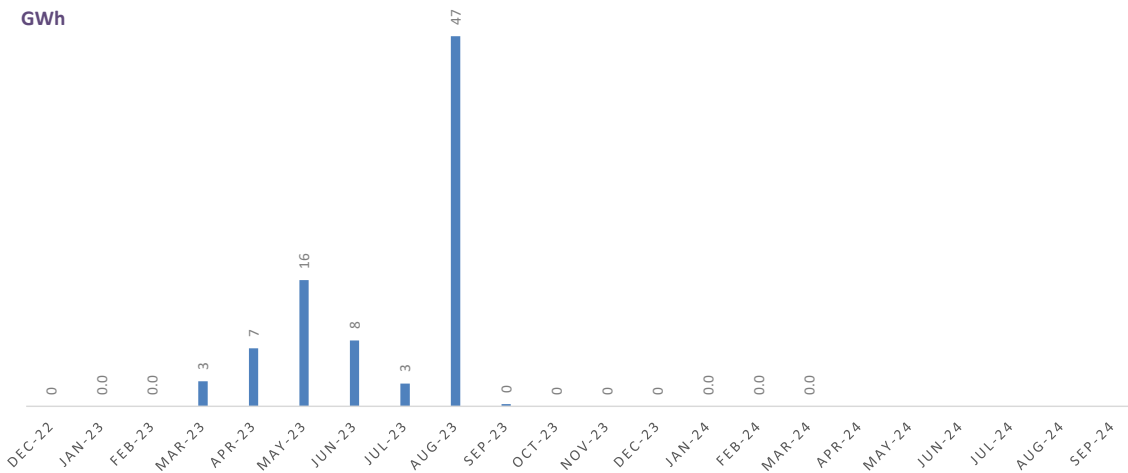
KELANITISSA SMALL GAS TURBINES (4 × 16 MW)

GWh



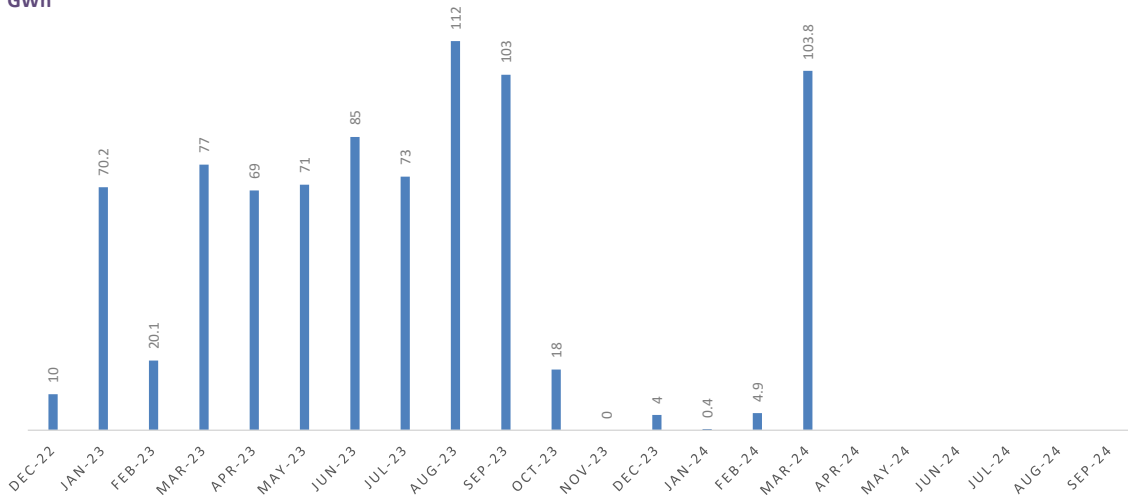
KELANITISSA GT 7 (115 MW)

GWh



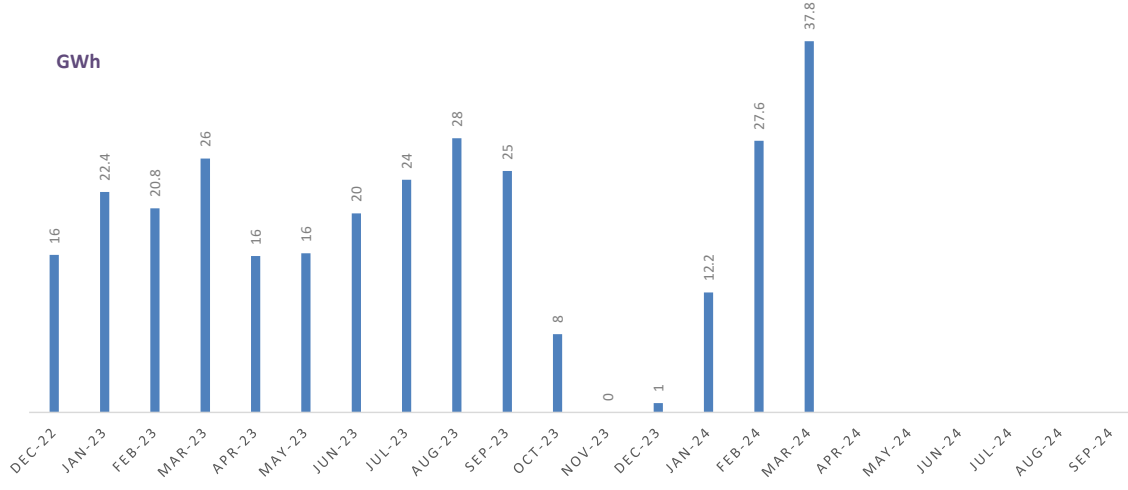
GWh

KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)

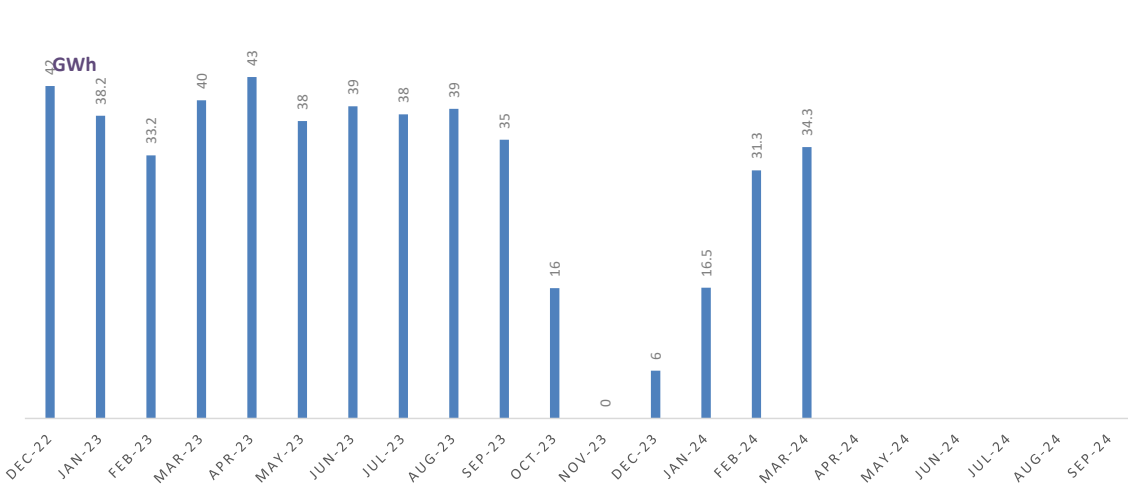


GWh

SAPUGASKANDA - A POWER STATION (80 MW)

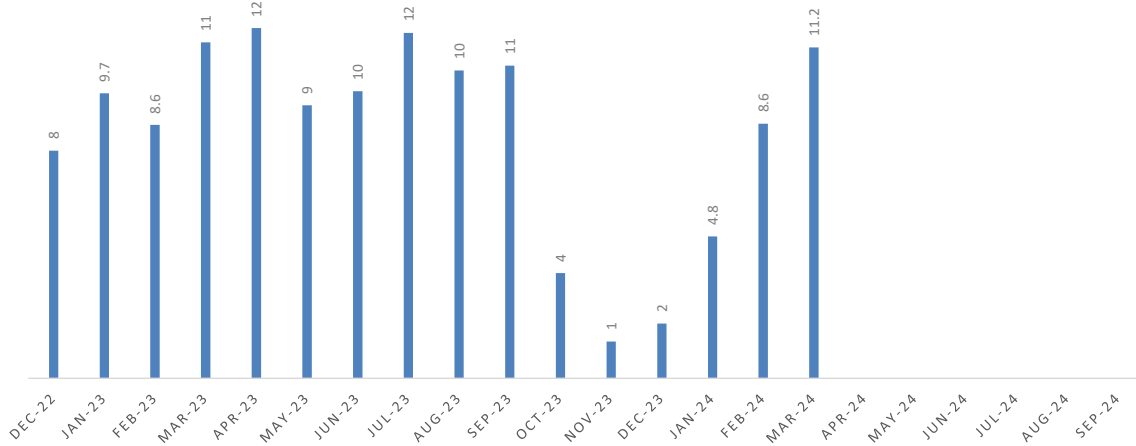


SAPUGASKANDA - B POWER STATION (80 MW)



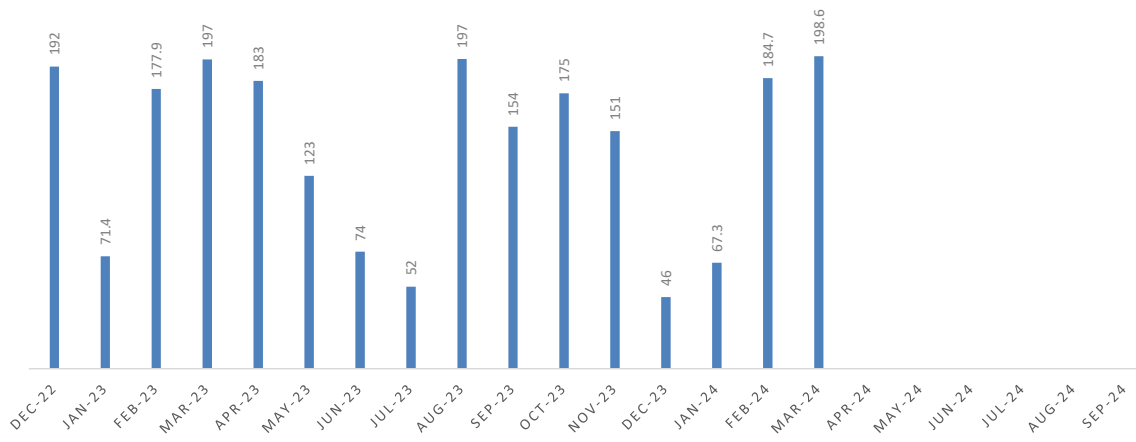
UTHURU JANANEE POWER STATION (24 MW)

GWh



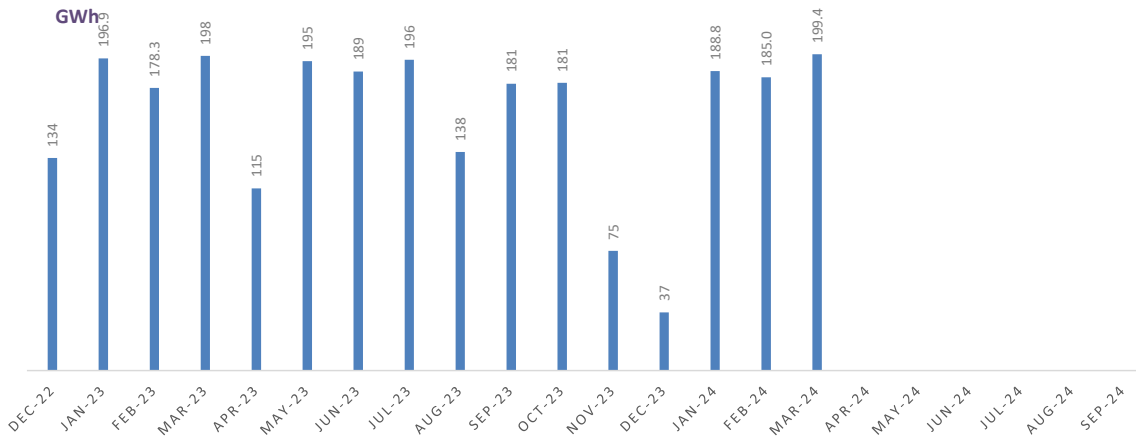
LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)

GWh

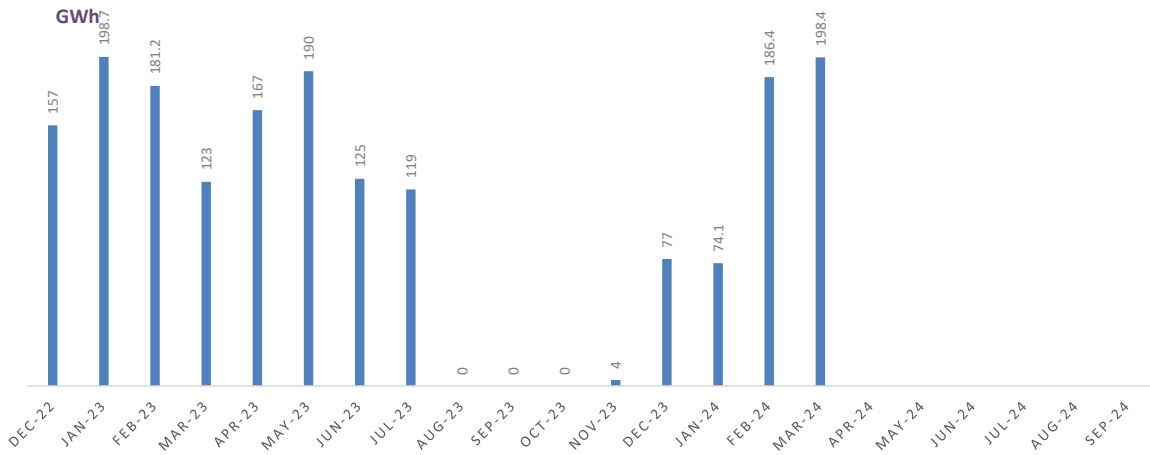


LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)

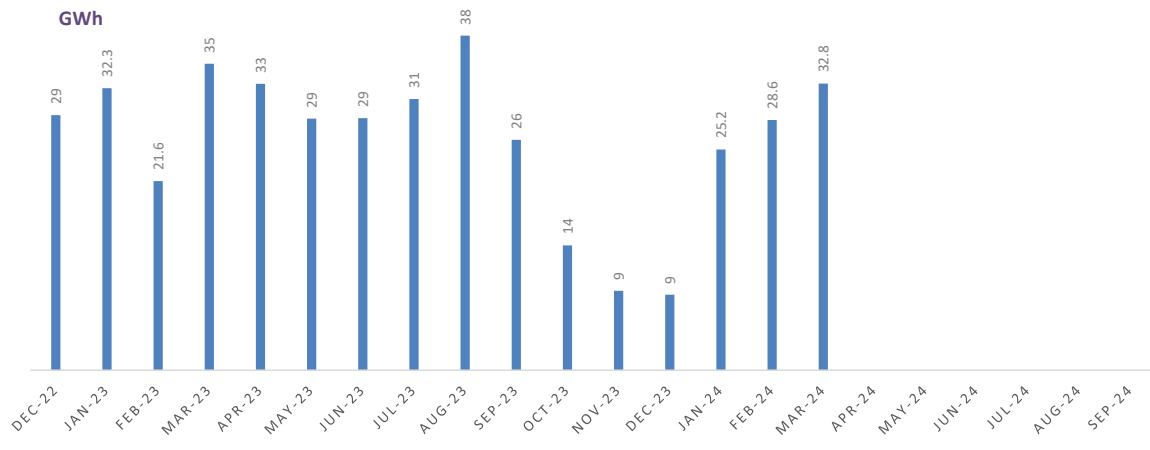
GWh



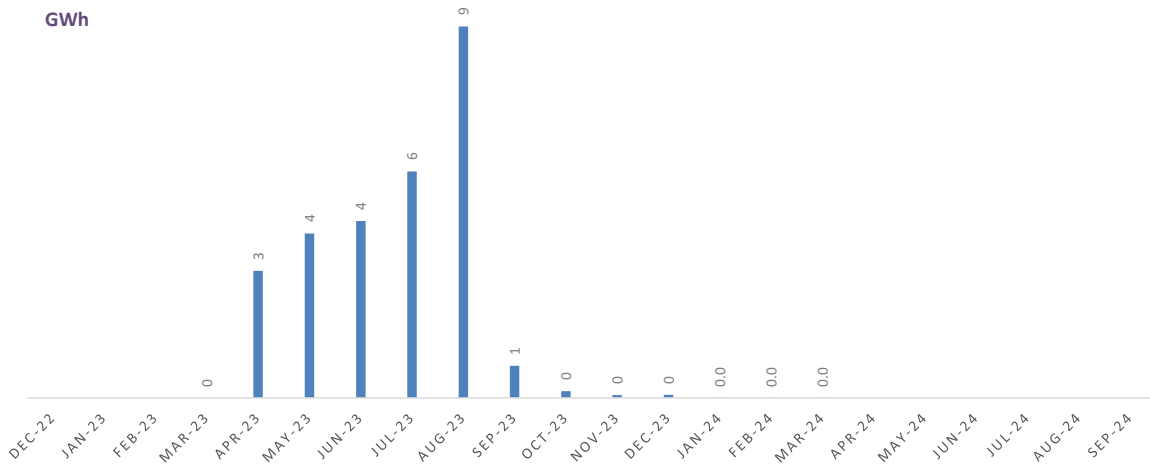
LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



BARGE POWER STATION - CEB (60 MW)

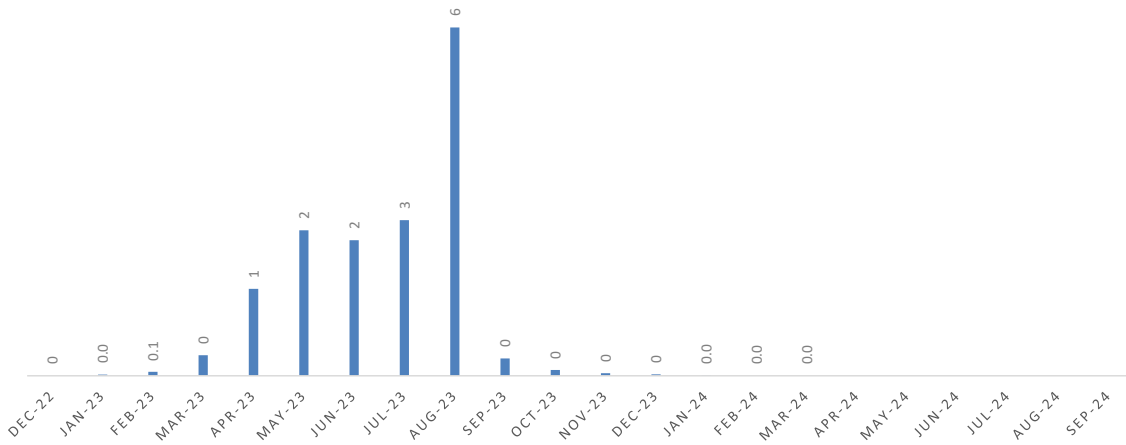


HAMBANTOTA - CEB (24 MW)



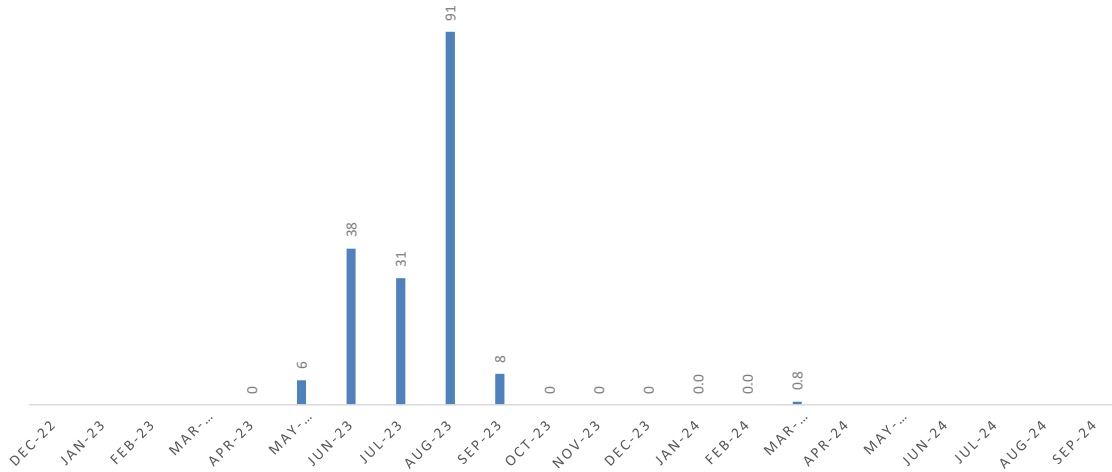
MATHUGAMA - CEB (16 MW)

GWh



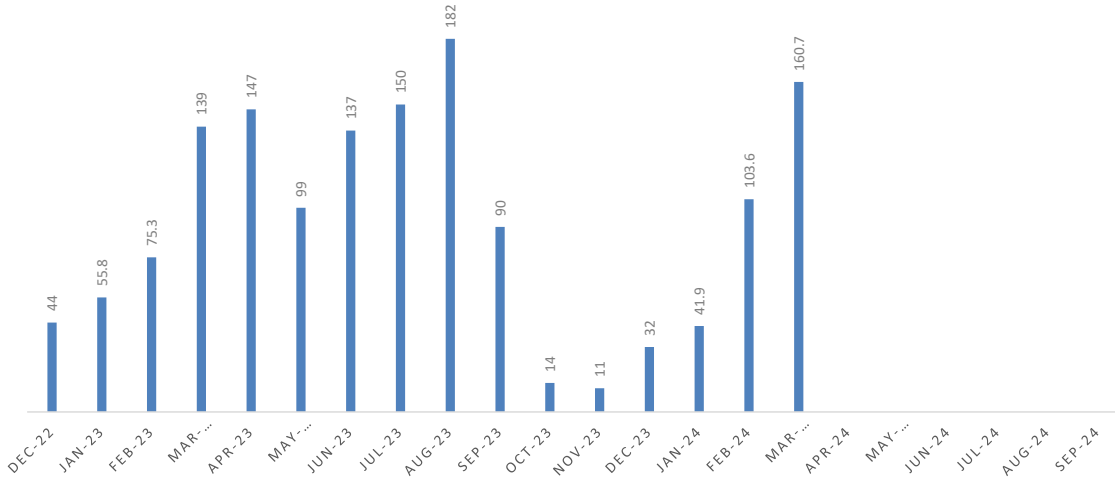
KCCPS - 02 POWER STATION (163 MW)

GWh



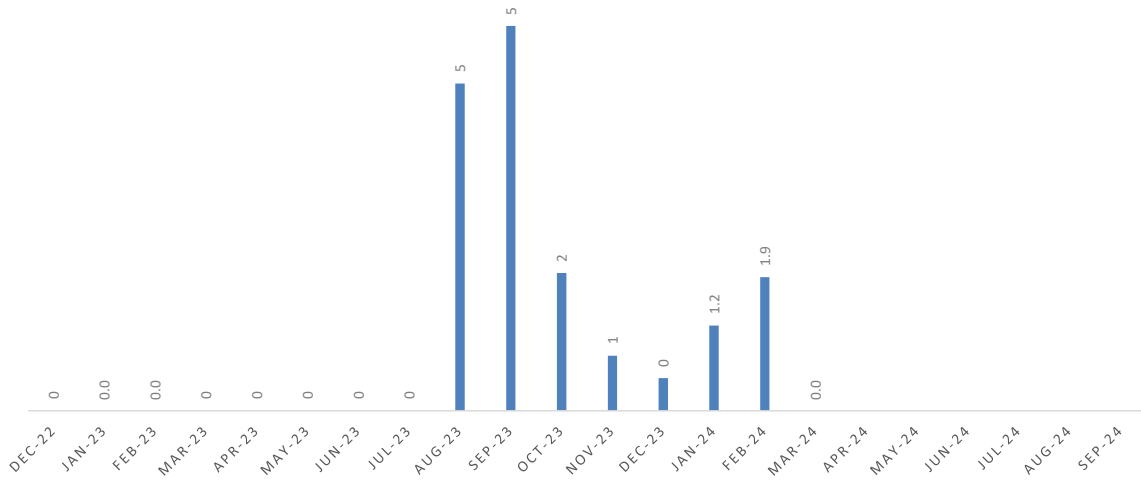
WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)

GWh



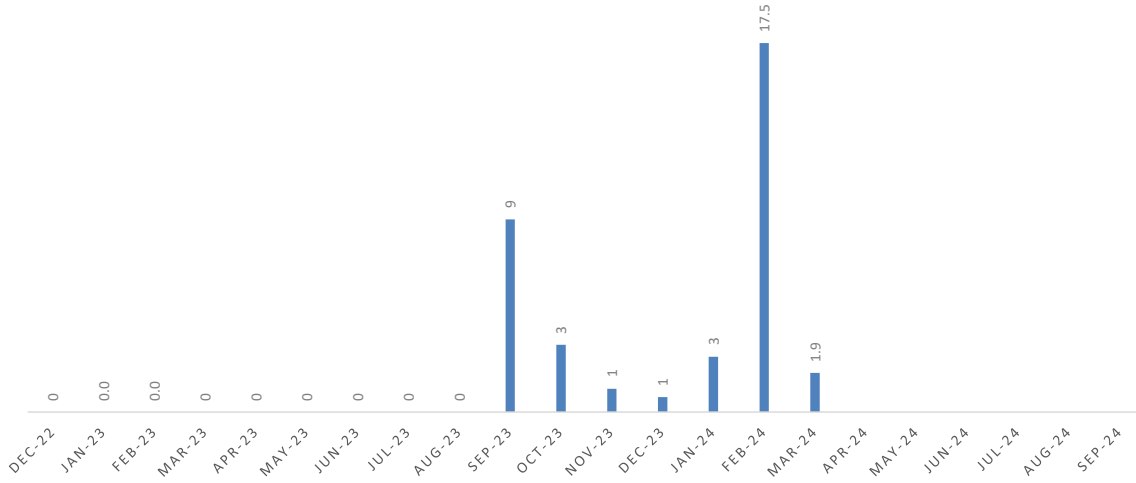
ACE - MATARA (24 MW)

GWh



ACE - EMBILIPITIYA (93 MW)

GWh



3 Peak Demand

During the month;

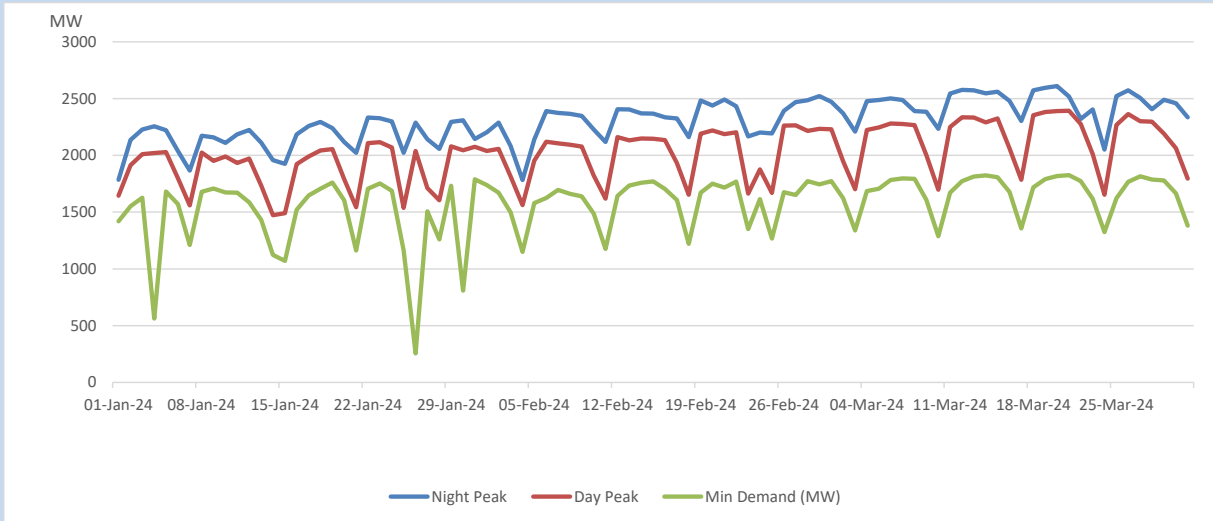
Table 05

Highest Peak Demand	2,610	MW
Lowest Peak Demand	2,051	MW
Highest Day Peak Demand	2,393	MW
Minimum Demand	1,287	MW

on 20-Mar
on 24-Mar
on 21-Mar
on 10-Mar

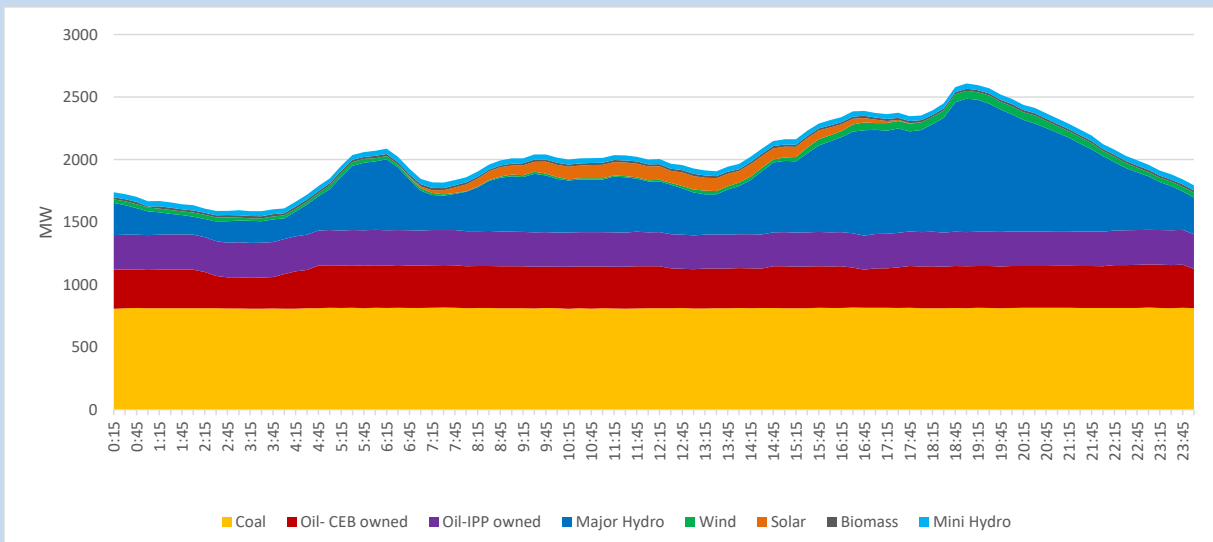
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

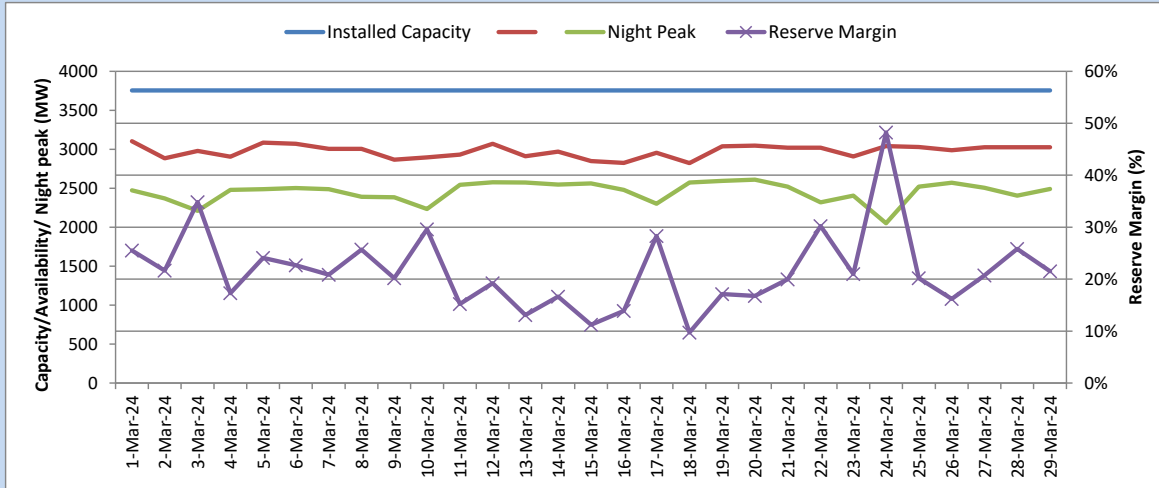


3.2 Load Curve of the Day with Highest Night Peak ,

20-Mar



3.3 Variation of Reserve Margin During Night Peak



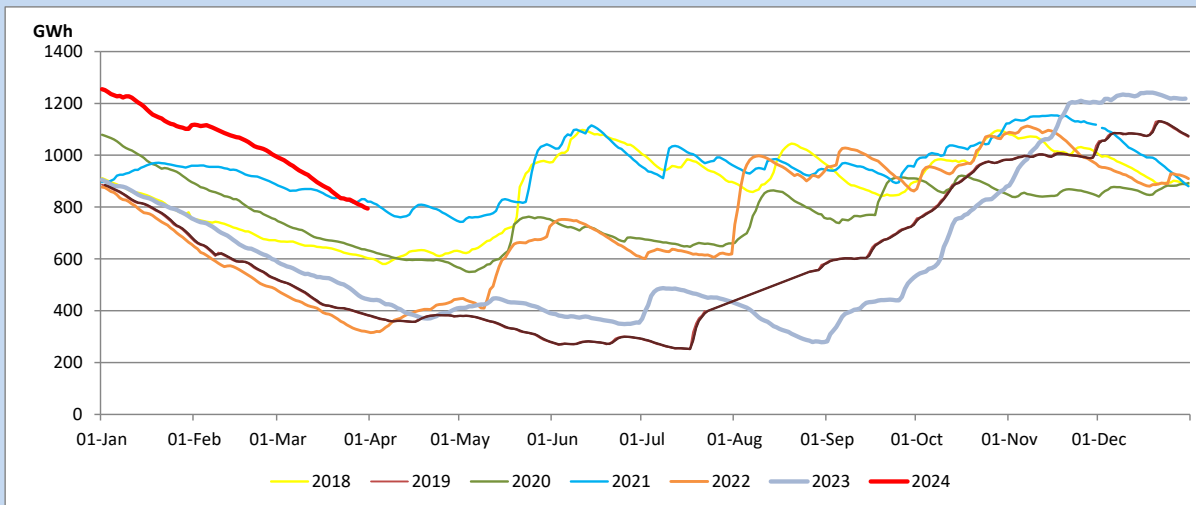
Note: Contribution from NCRE plants is not included

4 Reservoir Statistics

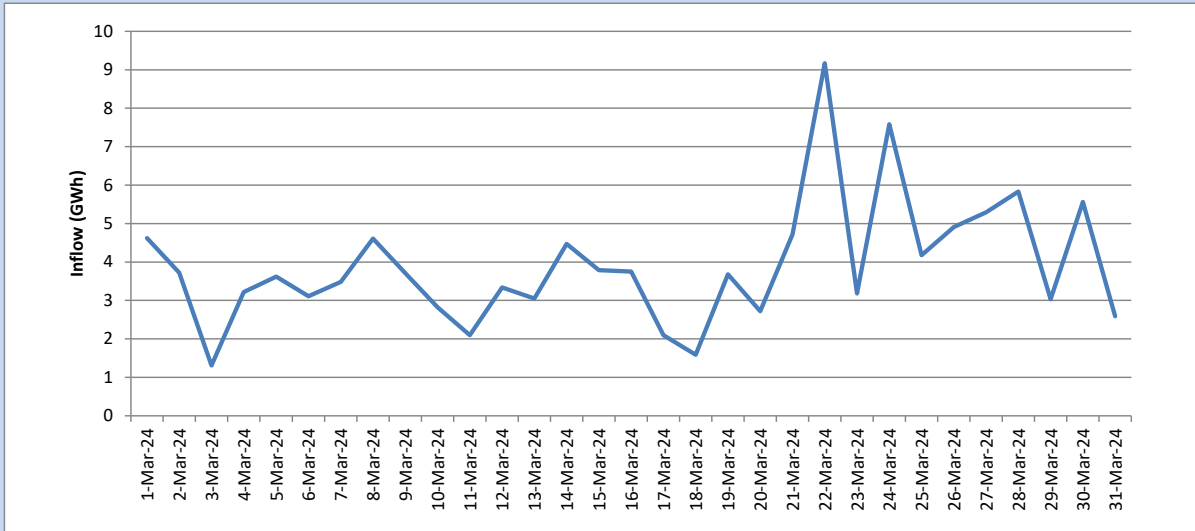
Table 05

Total Reservoir level at the beginning of the month	991.8 GWh
Total Reservoir level at the end of the month	787.8 GWh
Total Inflow	120.9 GWh

4.1 Total Hydro Reservoir- Comparison with Past Years



4.2 System Inflow Variation during the month



4.3 Major Hydro Reservoir Levels Variation during the year

