

Monthly Generation Report

December-24



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

December-24

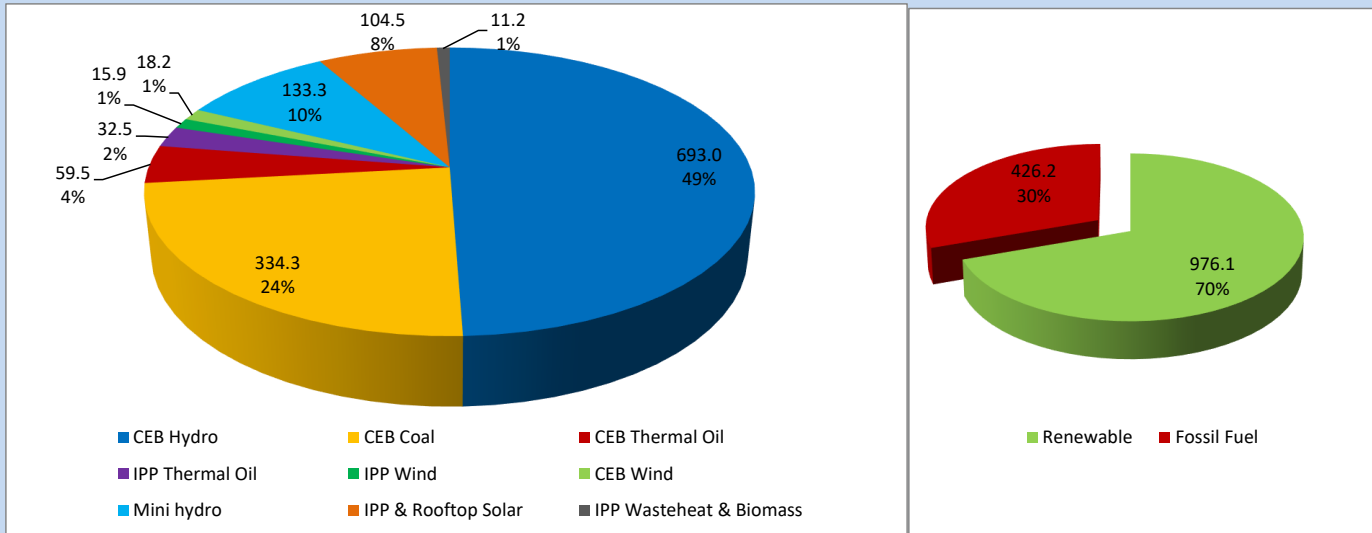


Table 01

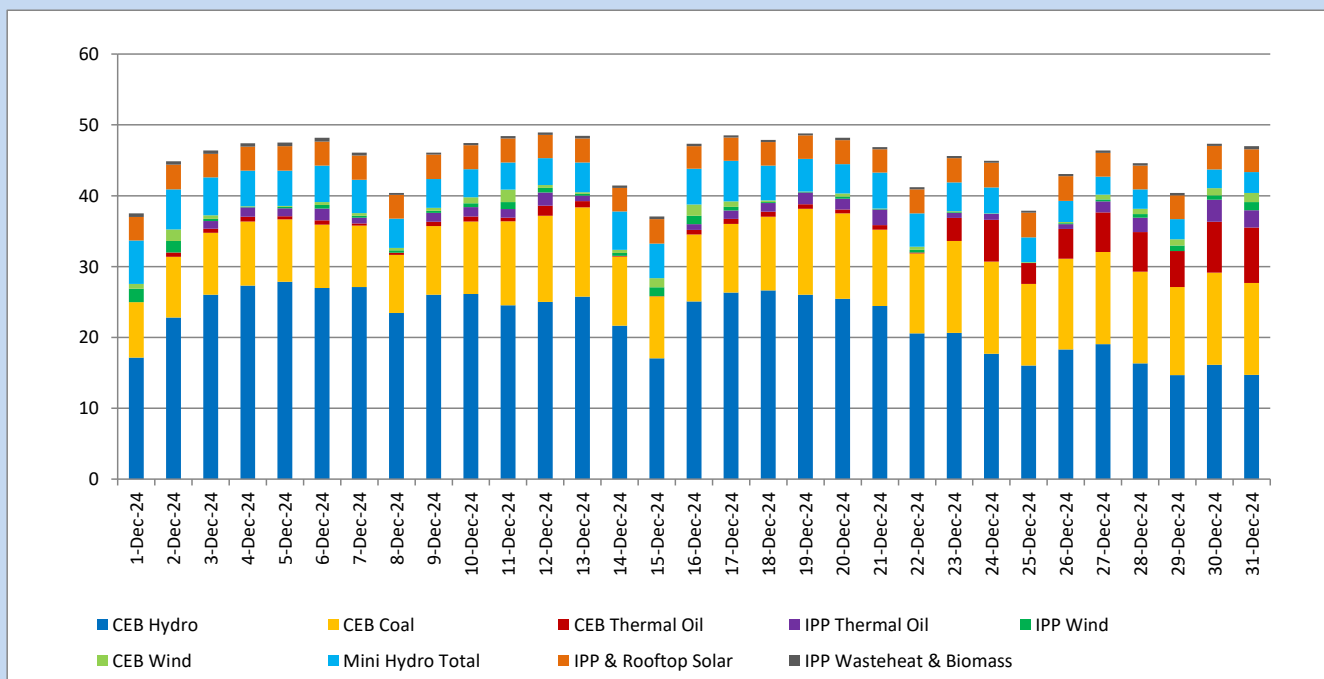
CEB Hydro	693	GWh
CEB Coal	334	GWh
CEB Thermal Oil	59	GWh
IPP Thermal Oil	33	GWh
IPP Wind	16	GWh
CEB Wind	18	GWh
Mini Hydro (Including non telemetered)	133	GWh
IPP Solar (Including estimated figures)	104	GWh
IPP Wasteheat + Biomass	11	GWh
Total Generation (Including estimated figures)	1,402	GWh

Total Generation = 1,402 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

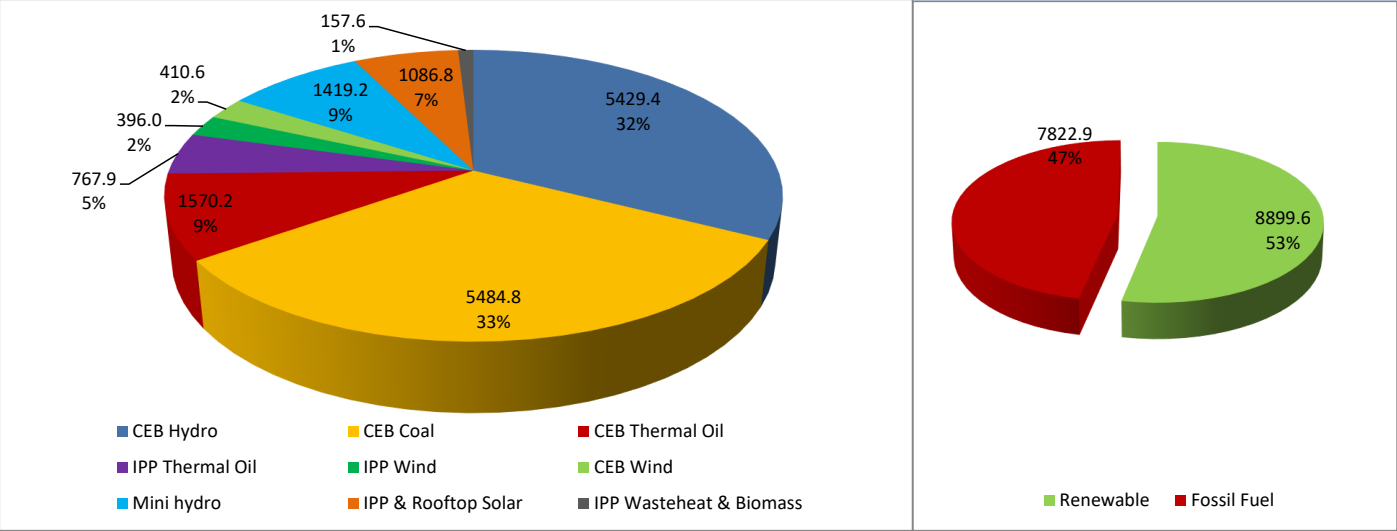


Table 02

CEB Hydro	5,429	GWh
CEB Coal	5,485	GWh
CEB Thermal Oil	1,570	GWh
IPP Thermal Oil	768	GWh
IPP Wind	396	GWh
CEB Wind	411	GWh
Mini Hydro (Including non telemetered)	1,419	GWh
IPP Solar (Including estimated figures)	1,087	GWh
IPP Wasteheat + Biomass	158	GWh
Total Generation (Including estimated figures)	16,722	GWh

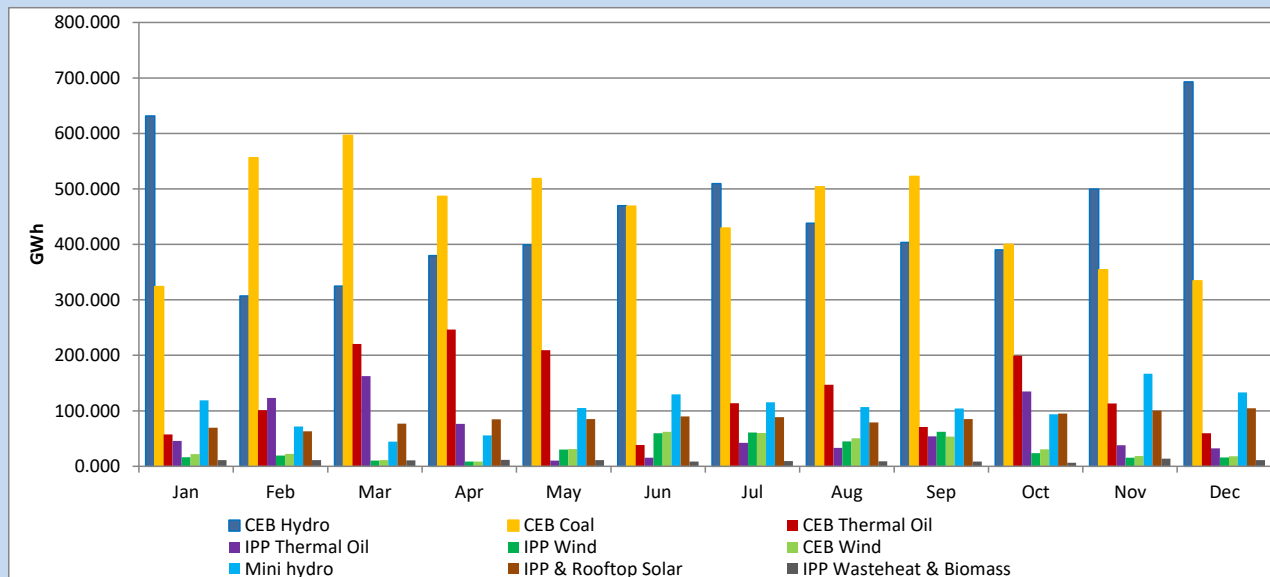
Note - Updated with Oct MRR report issued by CEB

Table 03

	Installed Capacity (MW)
CEB Hydro	1531
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast and Sobadhanavi)	482
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar* (Ordinary)	564
Rooftop Solar* (LT Bulk)	357
Rooftop Solar* (HT Bulk)	110
Rooftop Solar* (LECO)	253

Note - NCRE capacities has been extracted from MRR Oct 2024

1.4 Variation of Monthly Generation Mix during the year



2 Major Plant Dispatch

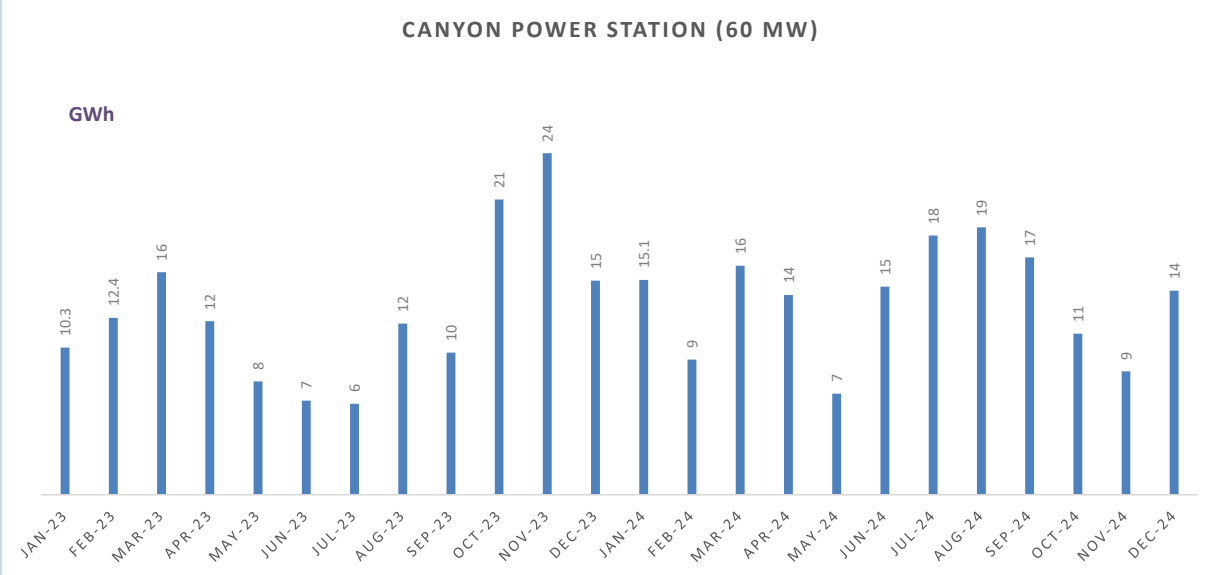
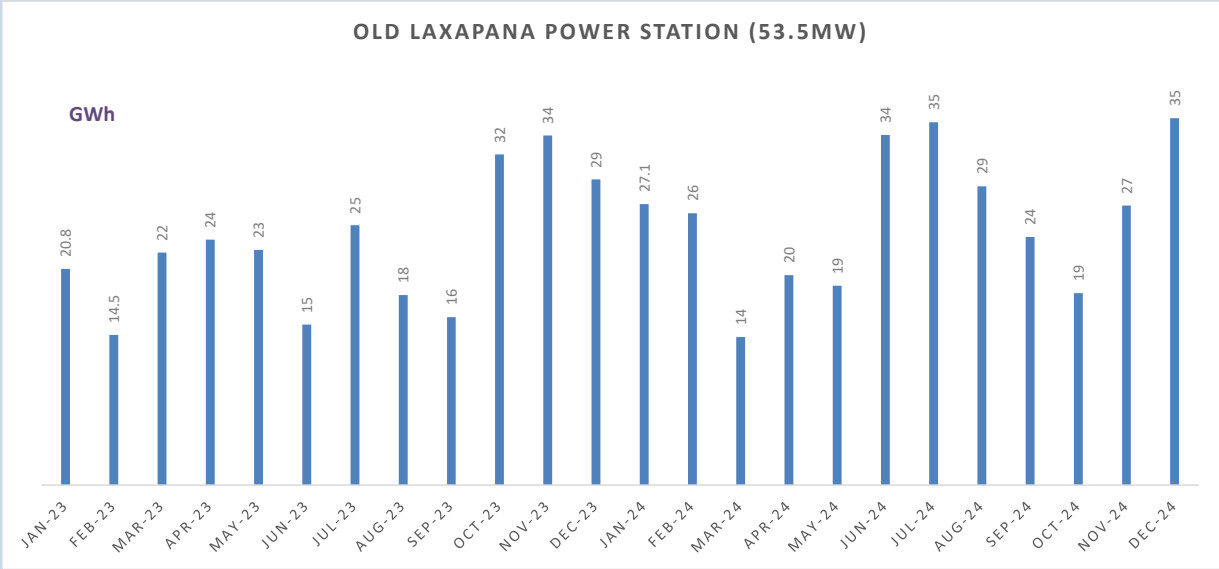
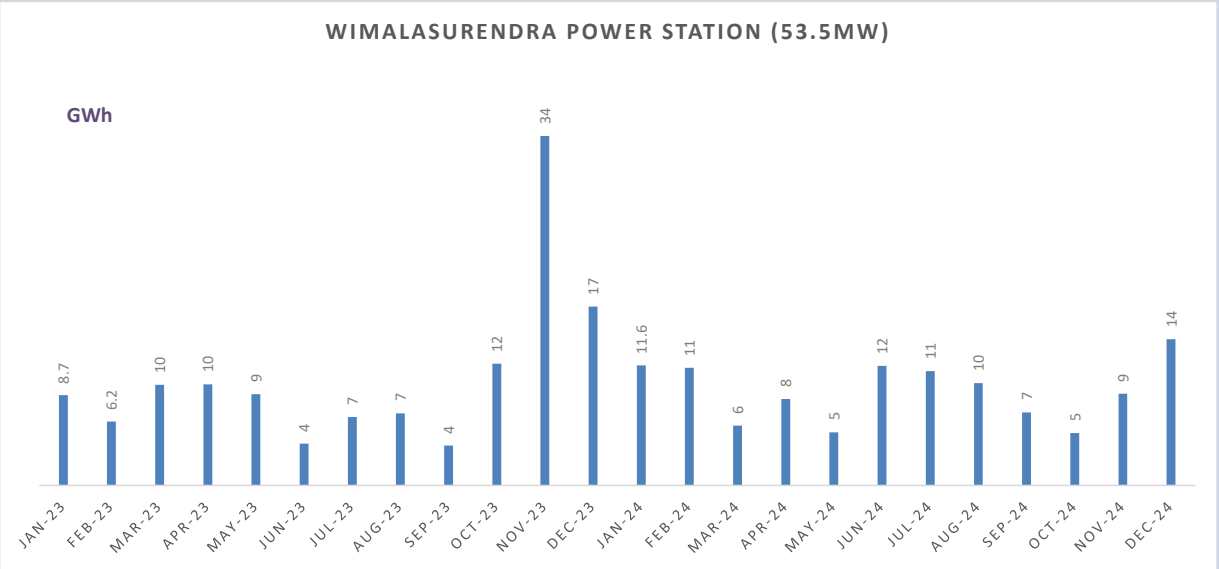
2.1 Dispatch from all Generation Major Plants in

December-24

Table 04

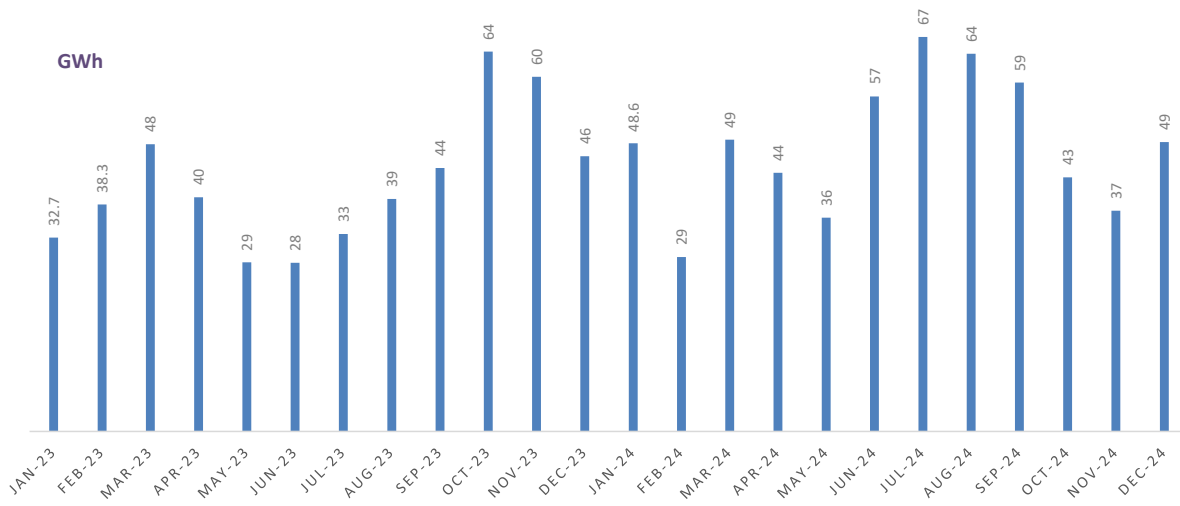
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	14,108	39.2%
Old Laxapana	54	35,378	91.0%
Canyon	60	14,354	33.2%
New Laxapana	100	48,858	67.9%
Polpitiya	90	45,860	70.8%
Broadlands	35	10,782	42.8%
Kotmale	201	74,250	51.3%
Victoria	210	139,648	92.4%
Randenigala	122	82,335	93.7%
Rantambe	50	34,893	96.9%
Ukuwela	40	20,919	72.6%
Bowatenna	40	15,942	55.4%
Upper Kotmale	150	53,267	49.3%
Nilambe	3	1,965	91.0%
Samanalawewa	120	31,060	35.9%
Kukule	75	25,573	47.4%
Inginiyagala	120	39,064	45.2%
Udawalawe	6	2,147	49.7%
Puttalam Coal I	270	0	0.0%
Puttalam Coal II	270	165,996	85.4%
Puttalam Coal III	270	168,272	86.6%
KPS Small GTs	64	0	0.0%
KPS GT 7	115	2	0.0%
KCCP	165	29,575	24.9%
Sapugaskanda A	64	1,632	3.5%
Sapugaskanda B	72	4,330	8.4%
Uthura Janani	24	5,372	31.1%
Barge CEB	60	17,251	39.9%
CEB - Hambantota	24	195	1.1%
CEB - Mathugama	16	78	0.7%
KCCPS -2	163	1,050	0.9%
West Coast	270	32,529	16.7%

2.3 Generation of Major Power Plants From Last Year



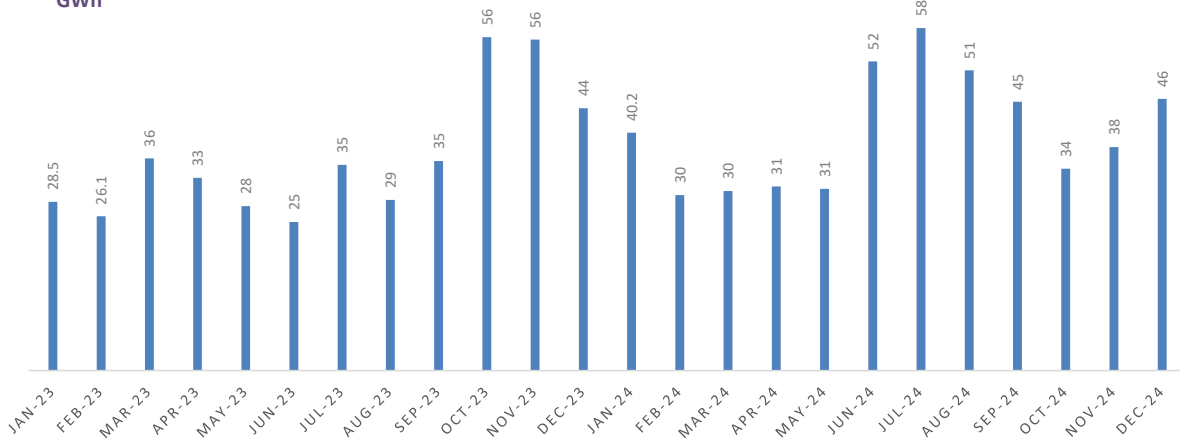
NEW LAXAPANA POWER STATION (115 MW)

GWh



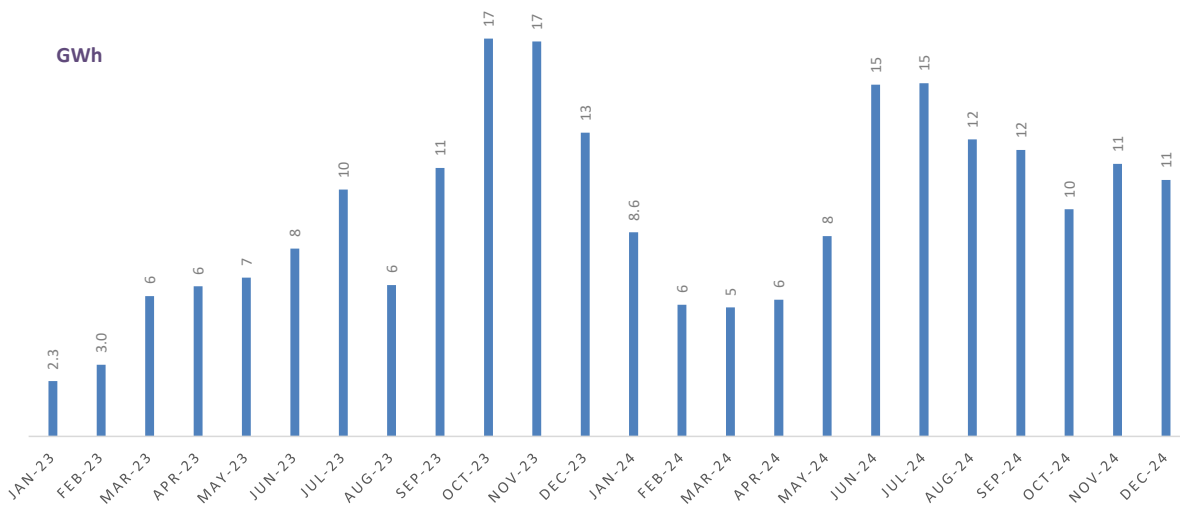
POLPITIYA POWER STATION (90 MW)

GWh



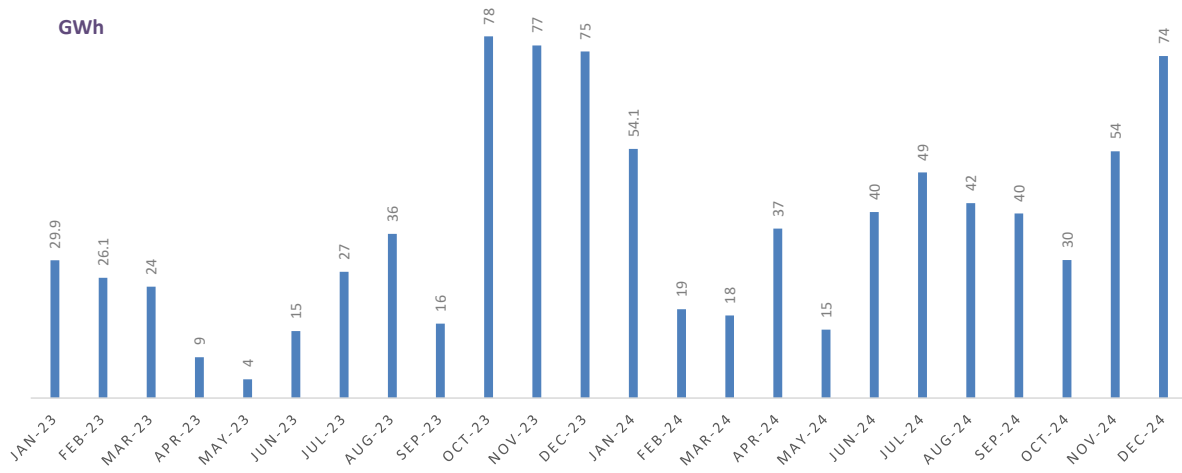
BROADLANDS POWER STATION (35 MW)

GWh



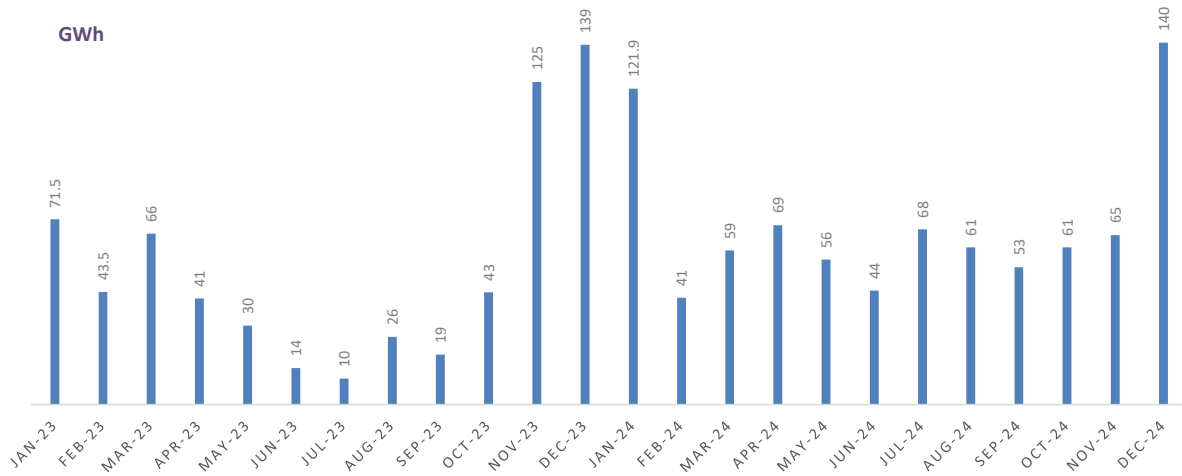
KOTMALE POWER STATION (201 MW)

GWh



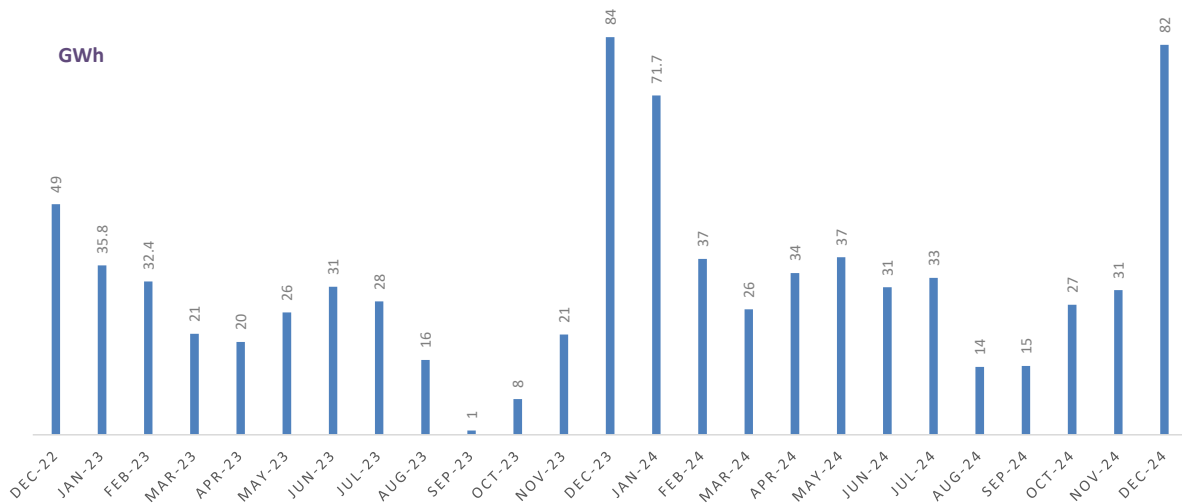
VICTORIA POWER STATION (225 MW)

GWh



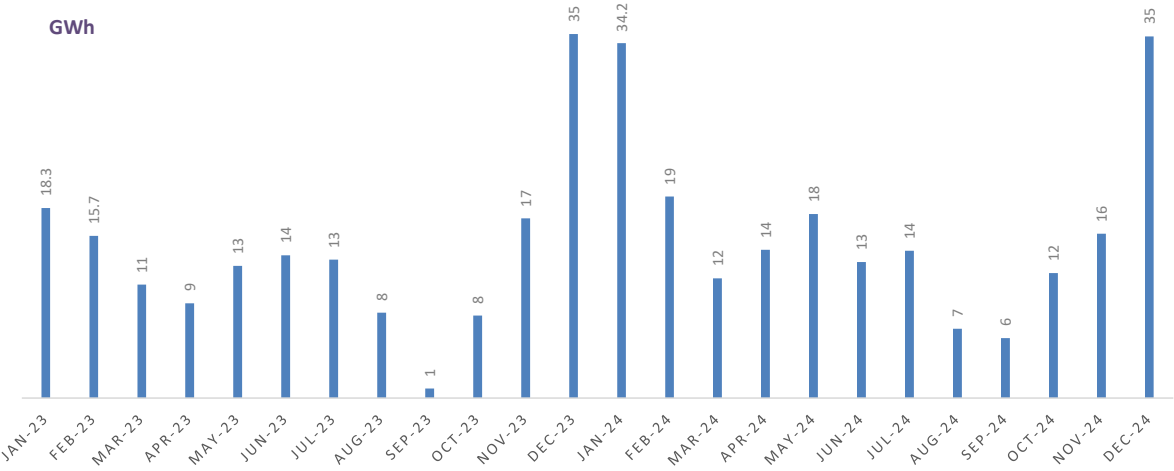
RANDENIGALA POWER STATION (114 MW)

GWh



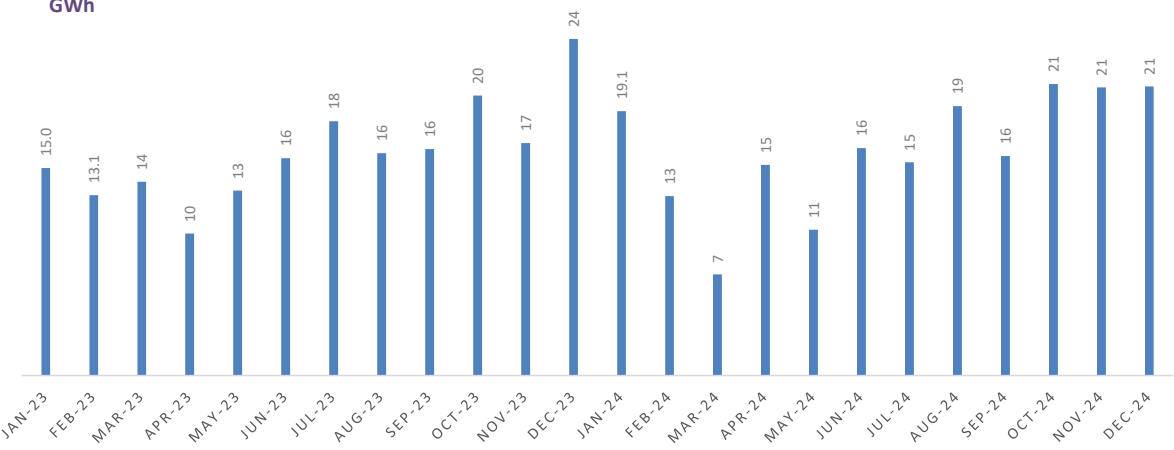
RANTAMBE POWER STATION (50 MW)

GWh



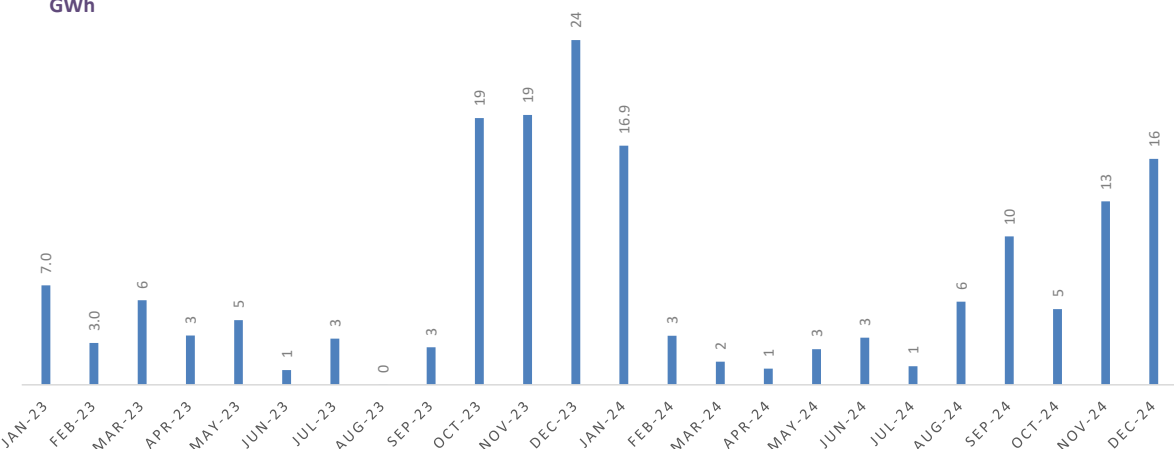
UKUWELA POWER STATION (37 MW)

GWh



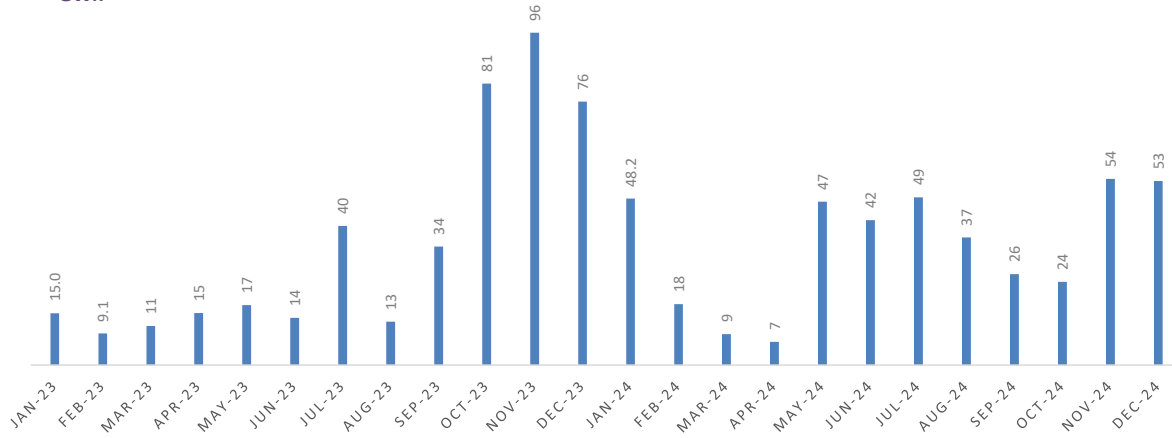
BOWATHENNA POWER STATION (40 MW)

GWh



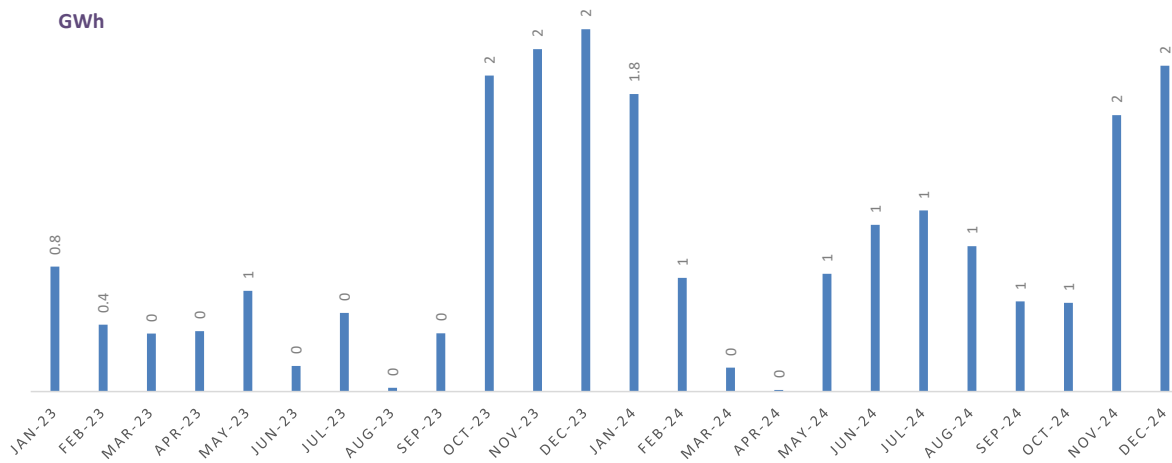
UPPER KOTMALE POWER STATION (150 MW)

GWh



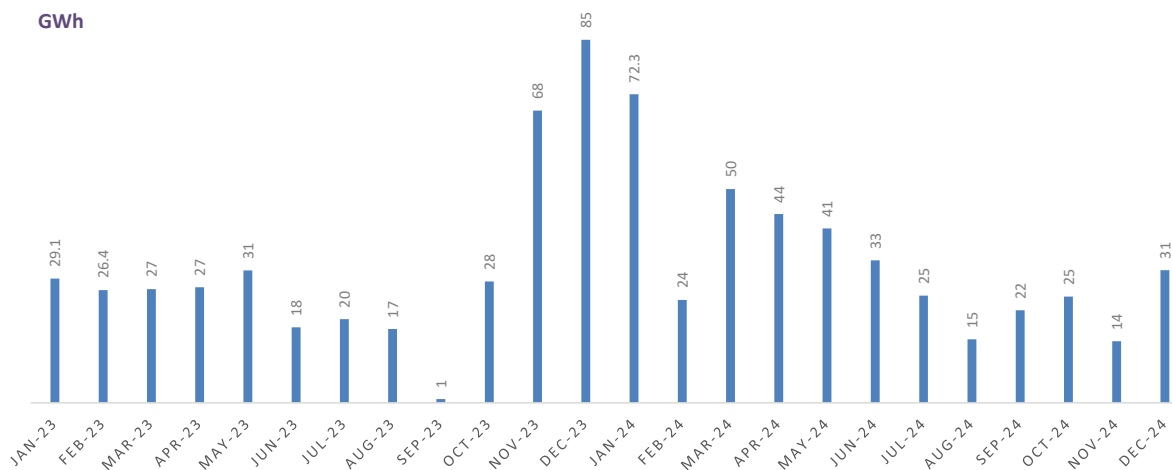
NILLAMBE POWER STATION (3 MW)

GWh



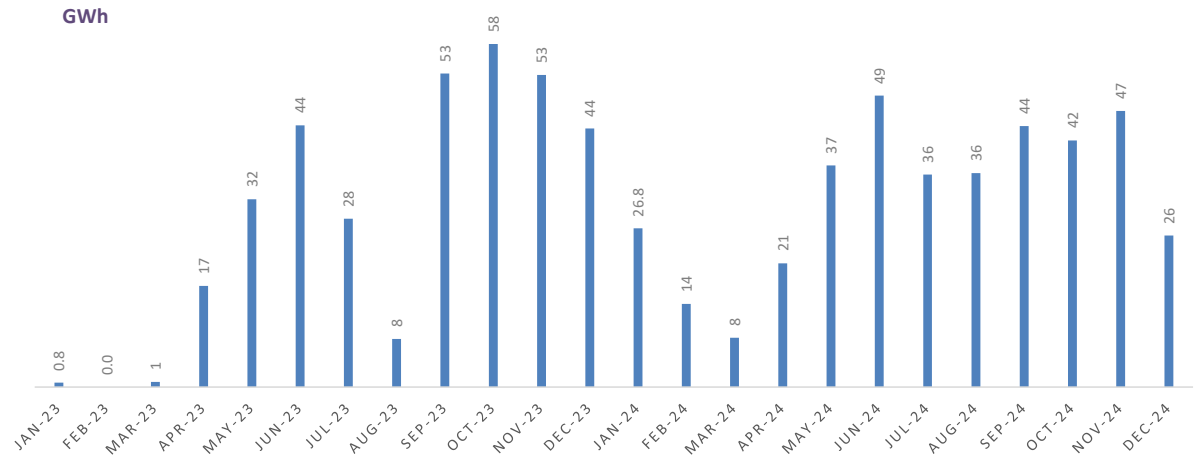
SAMANALAWEWA POWER STATION (120 MW)

GWh



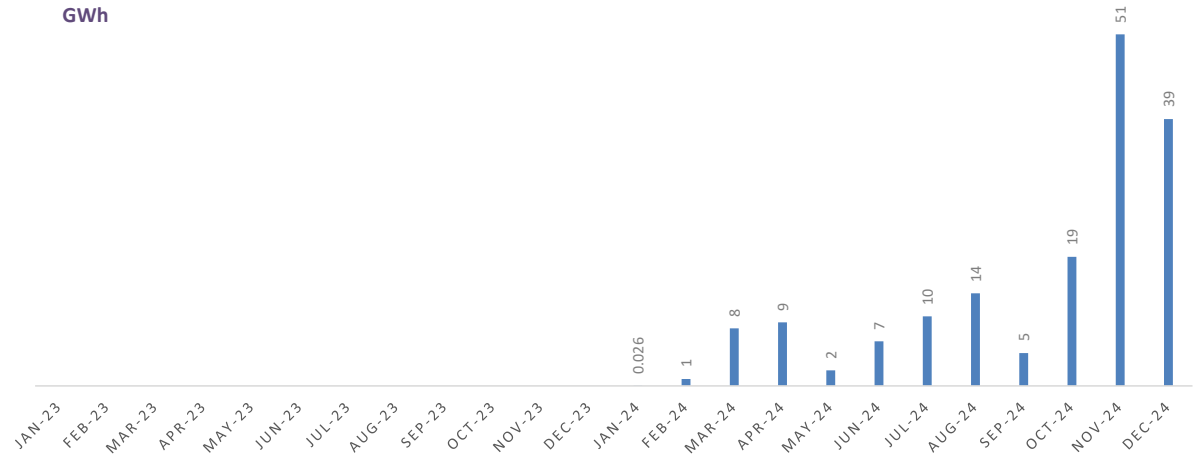
KUKULE POWER STATION (75 MW)

GWh



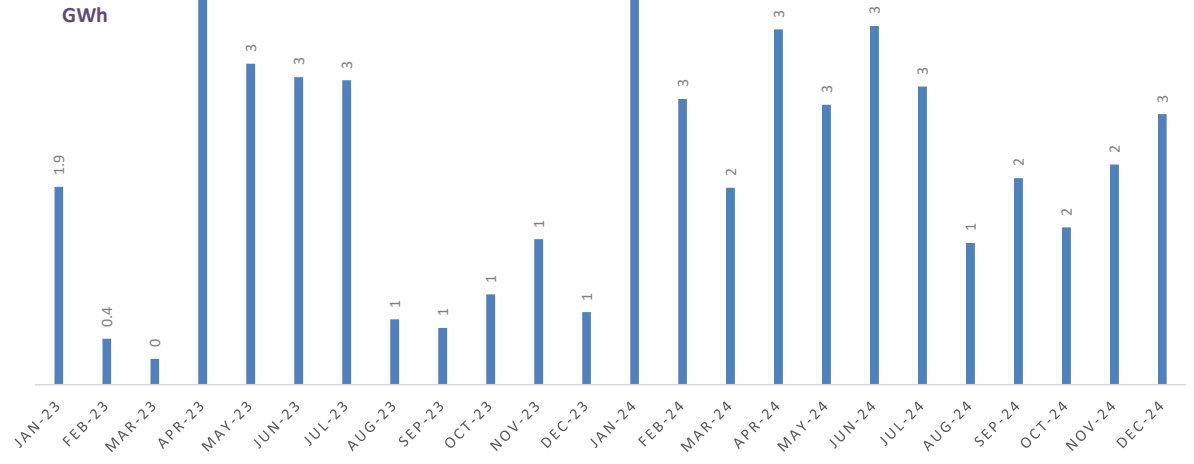
UMA OYA POWER STATION (150 MW)

GWh

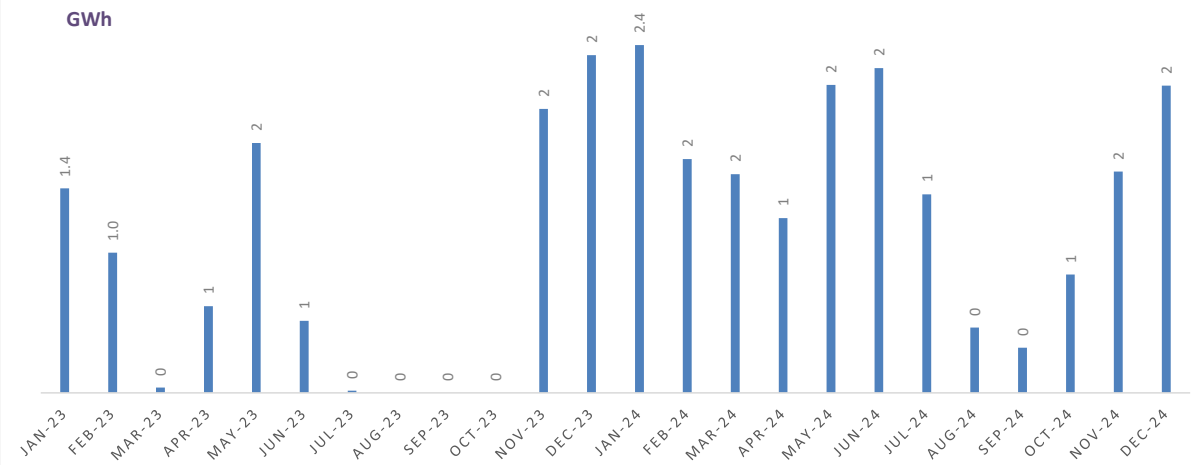


INGINIYAGALA POWER STATION (11 MW)

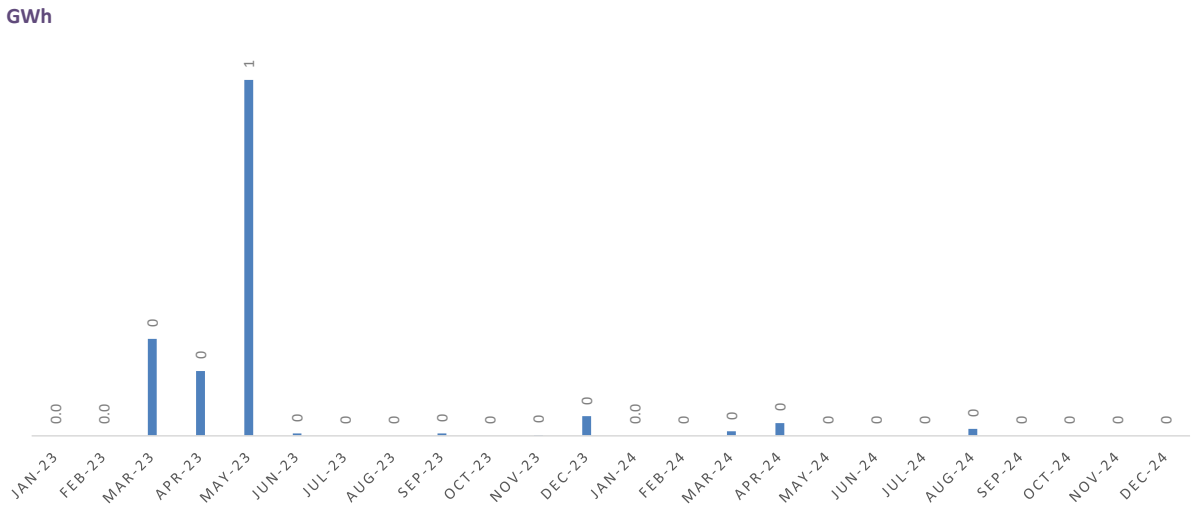
GWh



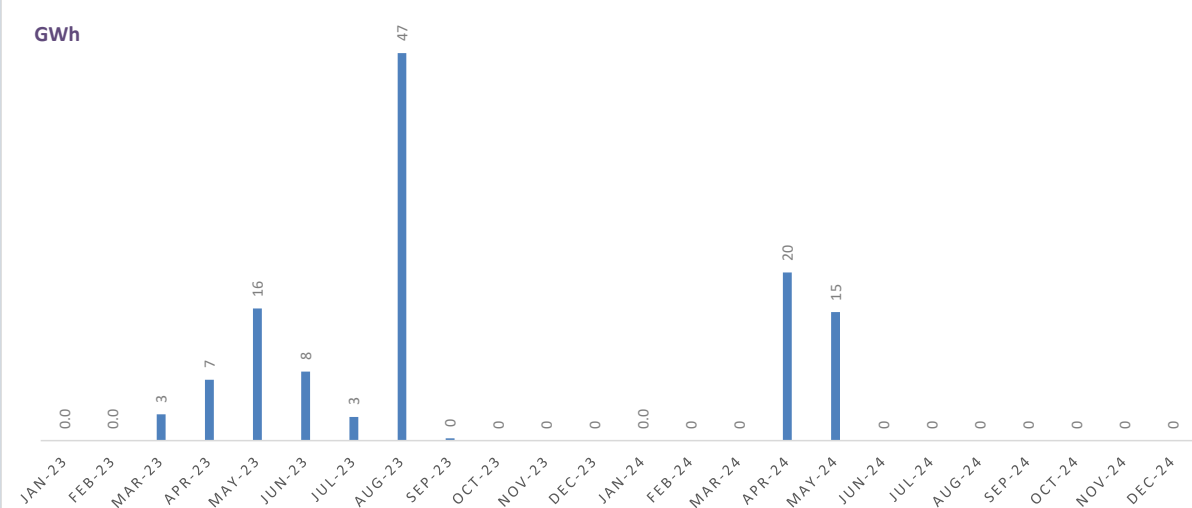
UDAWALAWE POWER STATION (6 MW)



KELANITISSA SMALL GAS TURBINES (4 × 16 MW)

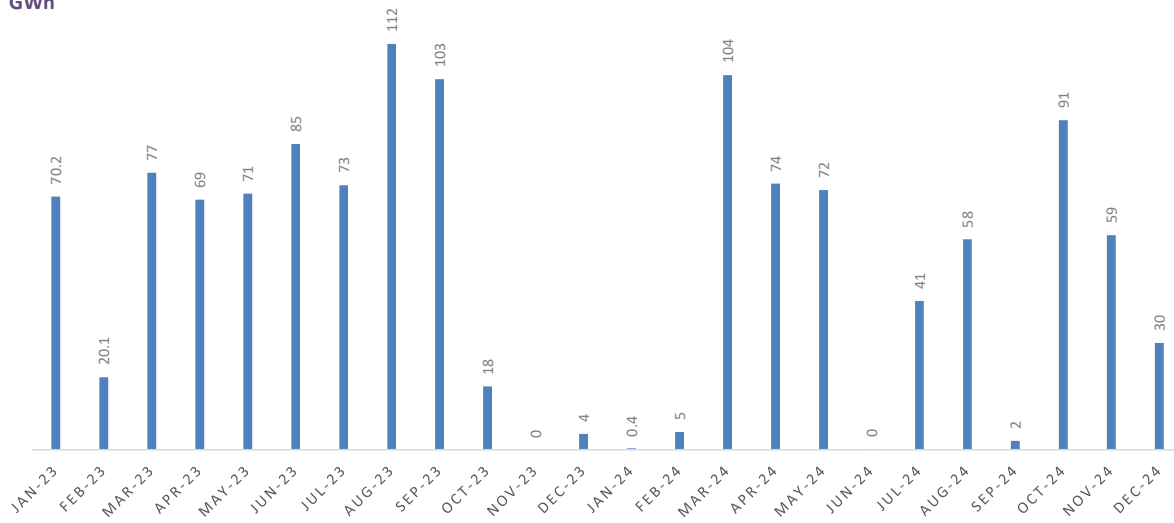


KELANITISSA GT 7 (115 MW)



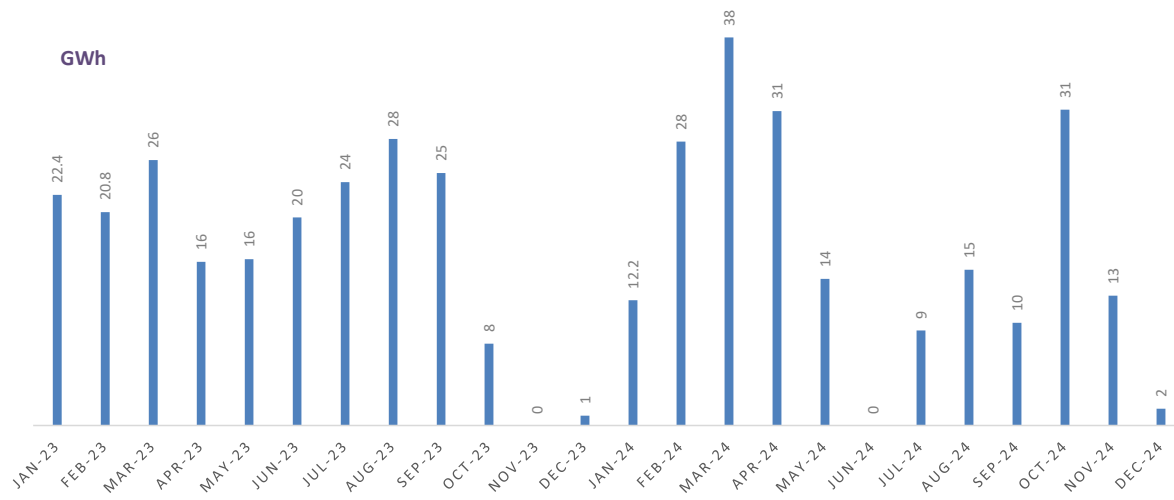
GWh

KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)



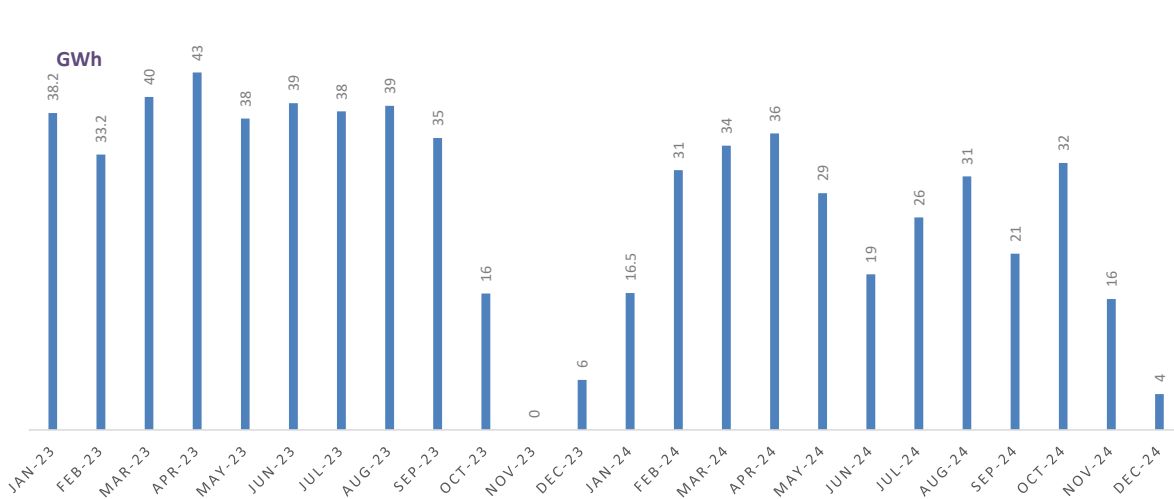
GWh

SAPUGASKANDA - A POWER STATION (80 MW)



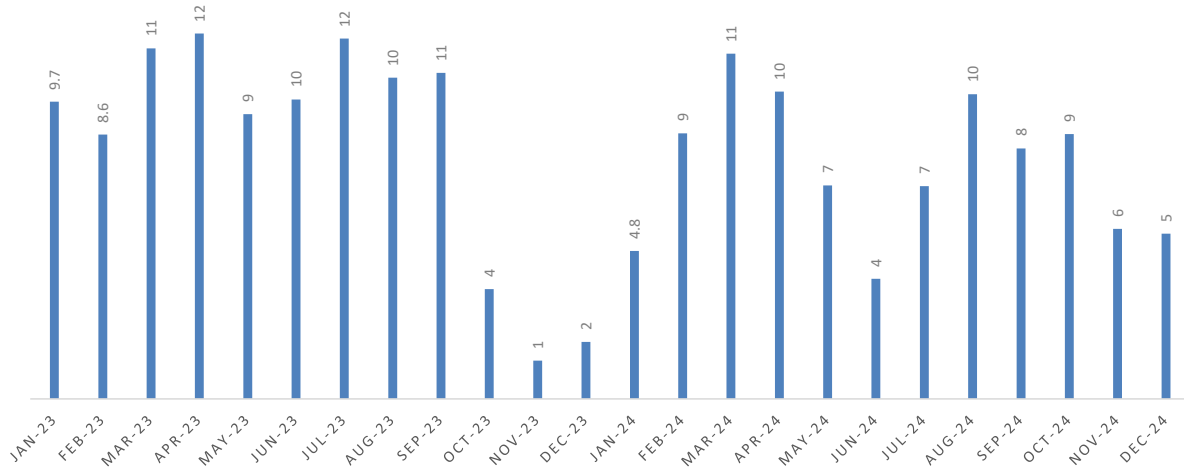
GWh

SAPUGASKANDA - B POWER STATION (80 MW)



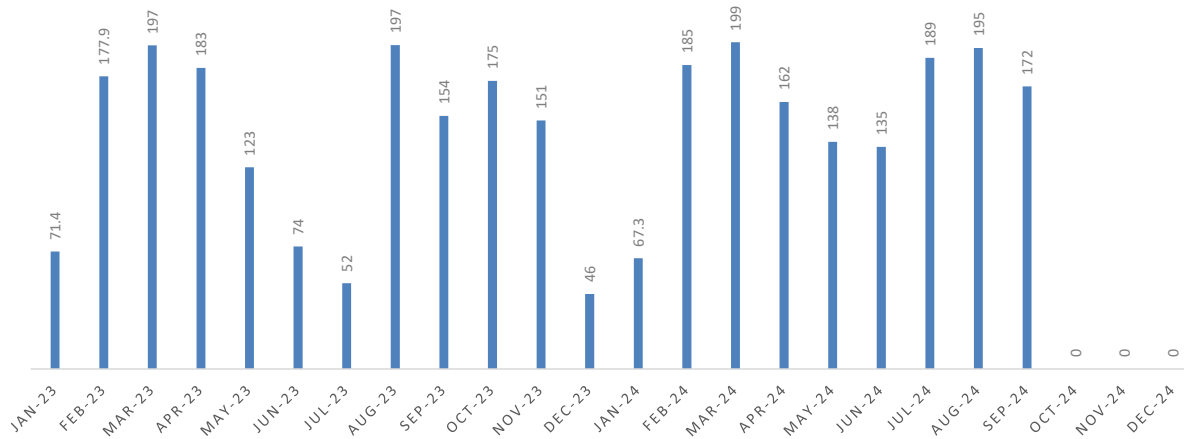
UTHURU JANANEE POWER STATION (24 MW)

GWh



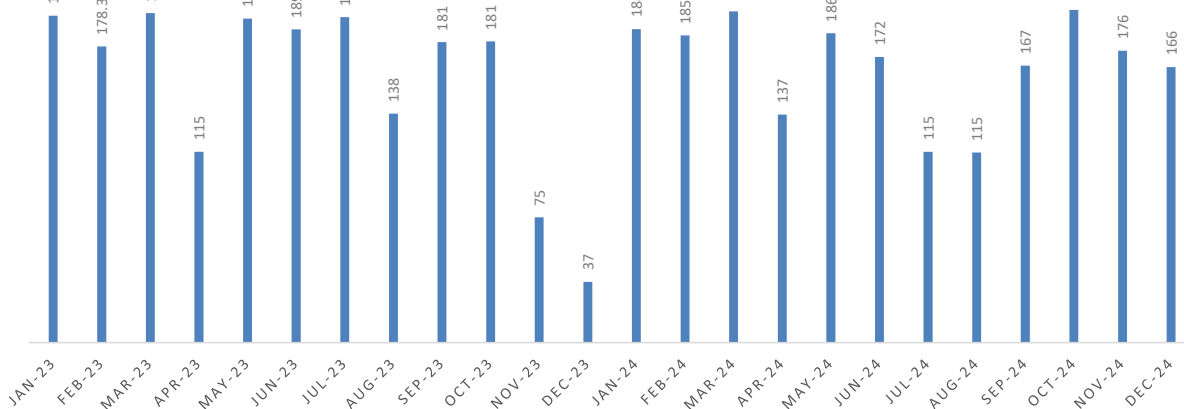
LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)

GWh

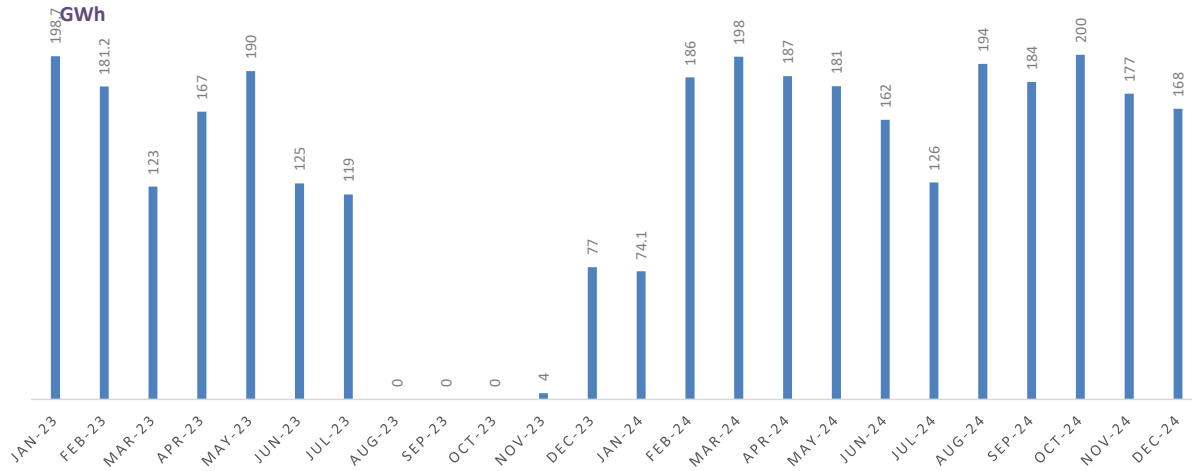


LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)

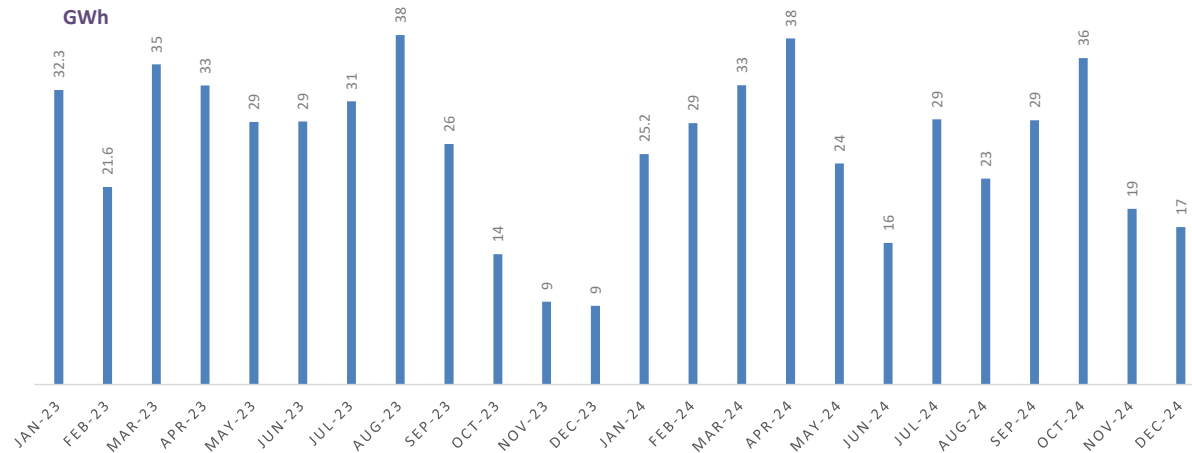
GWh



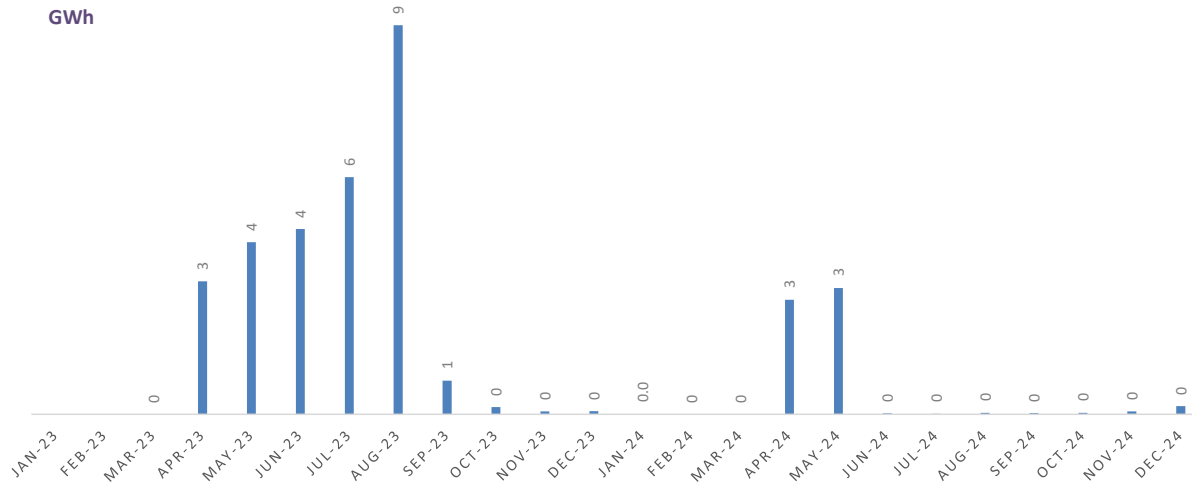
LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



BARGE POWER STATION - CEB (60 MW)

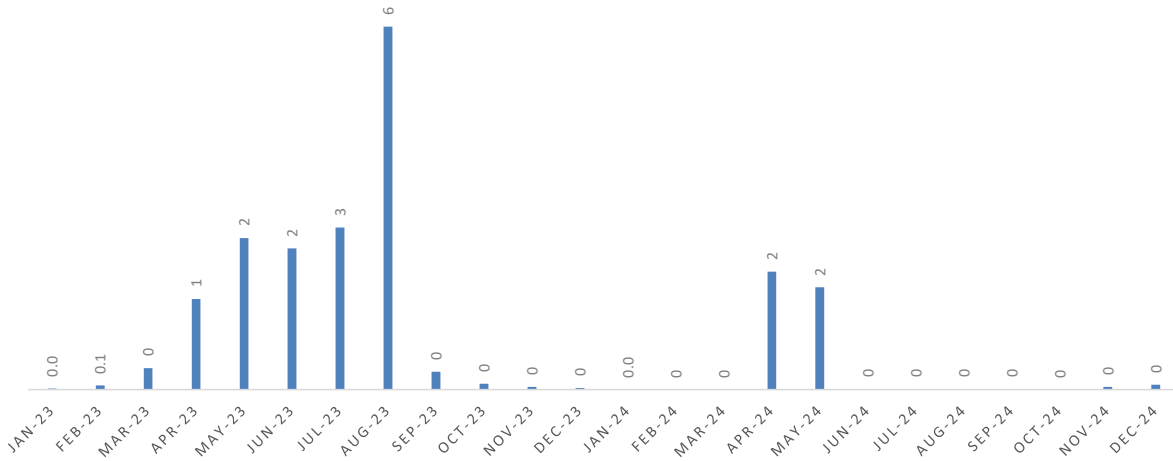


HAMBANTOTA - CEB (24 MW)



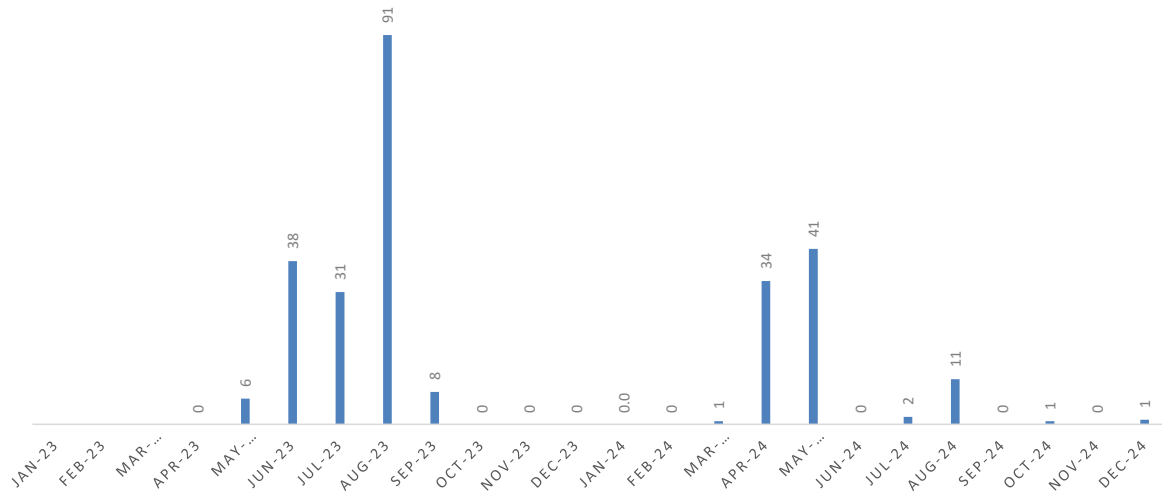
MATHUGAMA - CEB (16 MW)

GWh



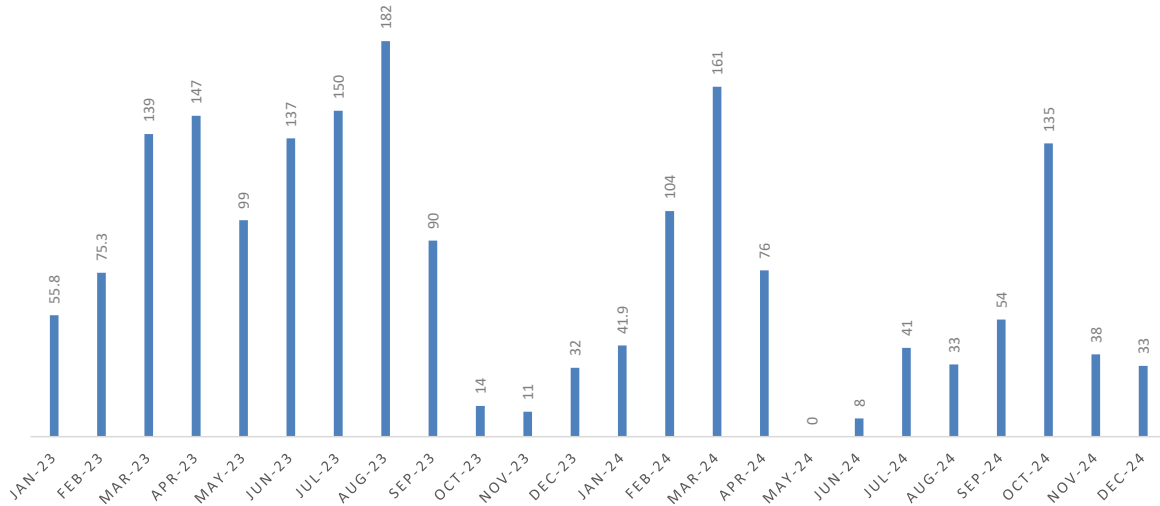
KCCPS - 02 POWER STATION (163 MW)

GWh



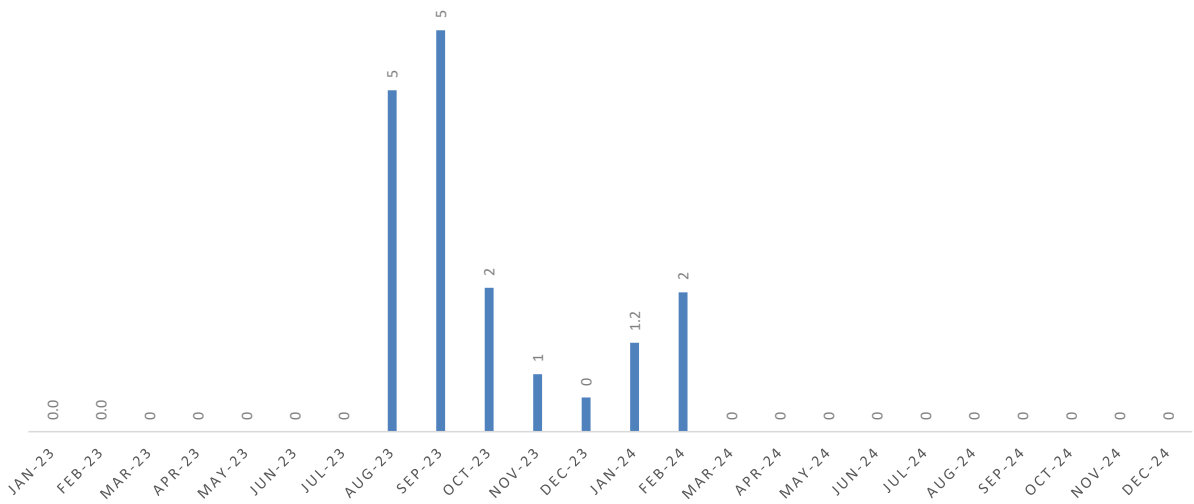
WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)

GWh



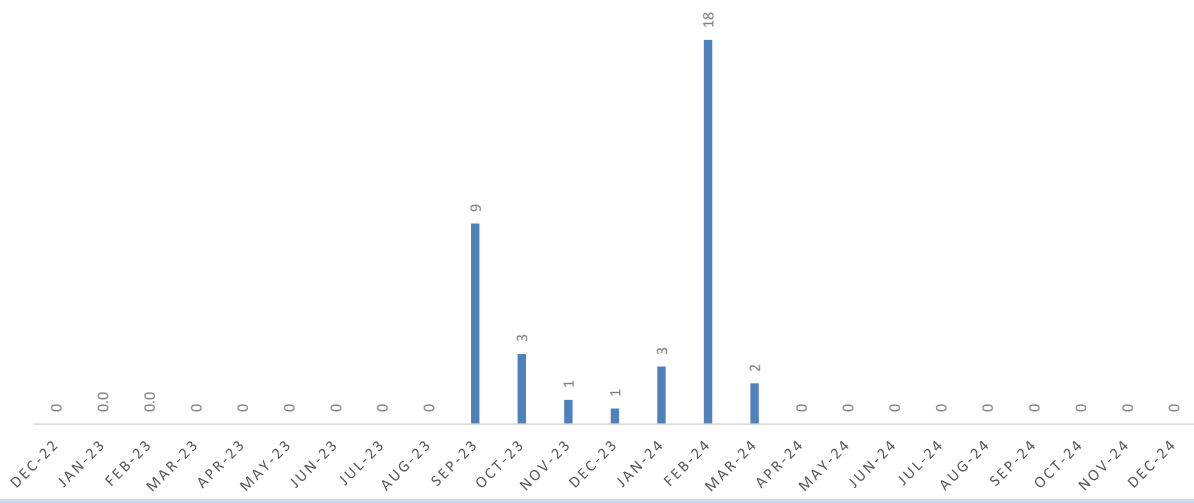
ACE - MATARA (24 MW)

GWh



ACE - EMBILIPITIYA (93 MW)

GWh



3 Peak Demand

During the month;

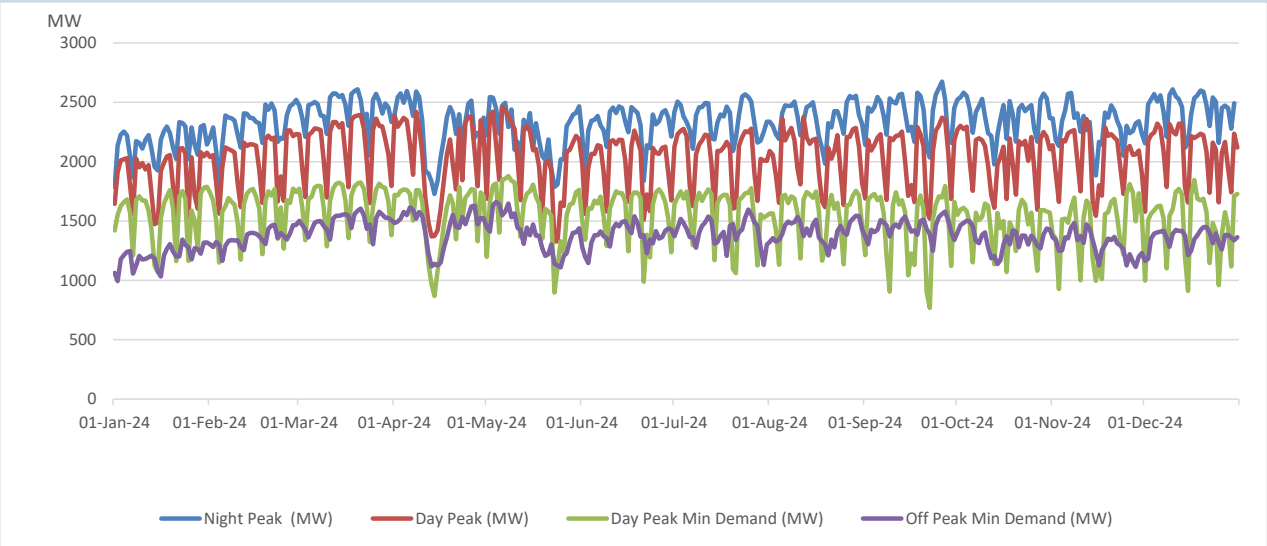
Table 05

Highest Night Peak Demand	2,610	MW
Lowest Night Peak Demand	2,117	MW
Highest Day Peak Demand	2,321	MW
Day time Minimum Demand	912	MW

on 10-Dec
on 14-Dec
on 05-Dec
on 15-Dec

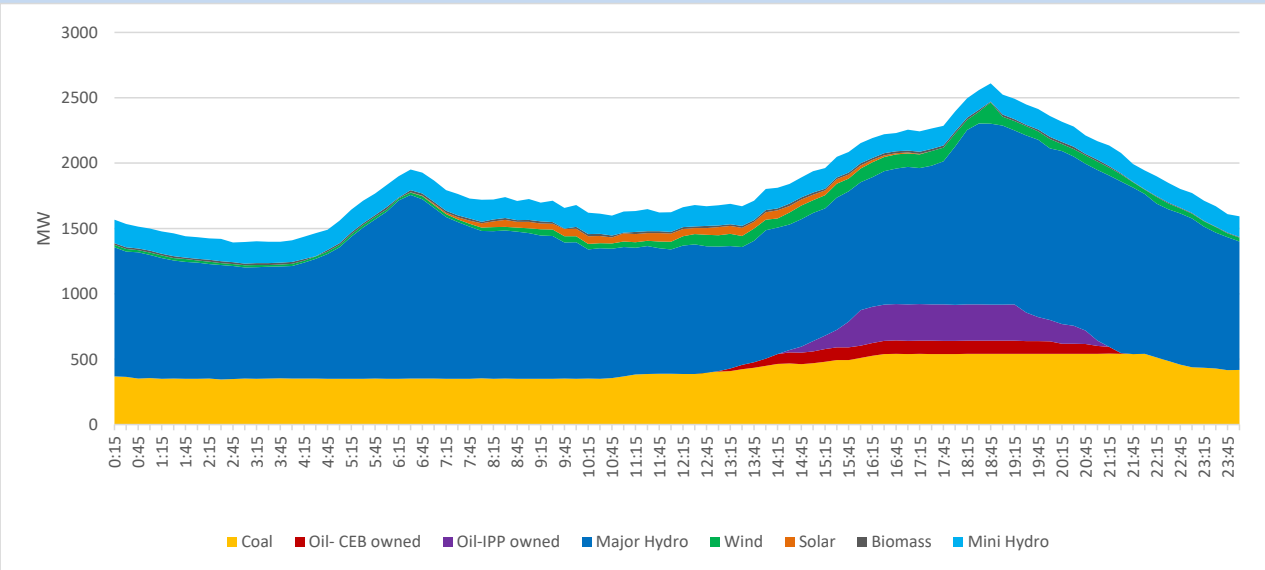
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

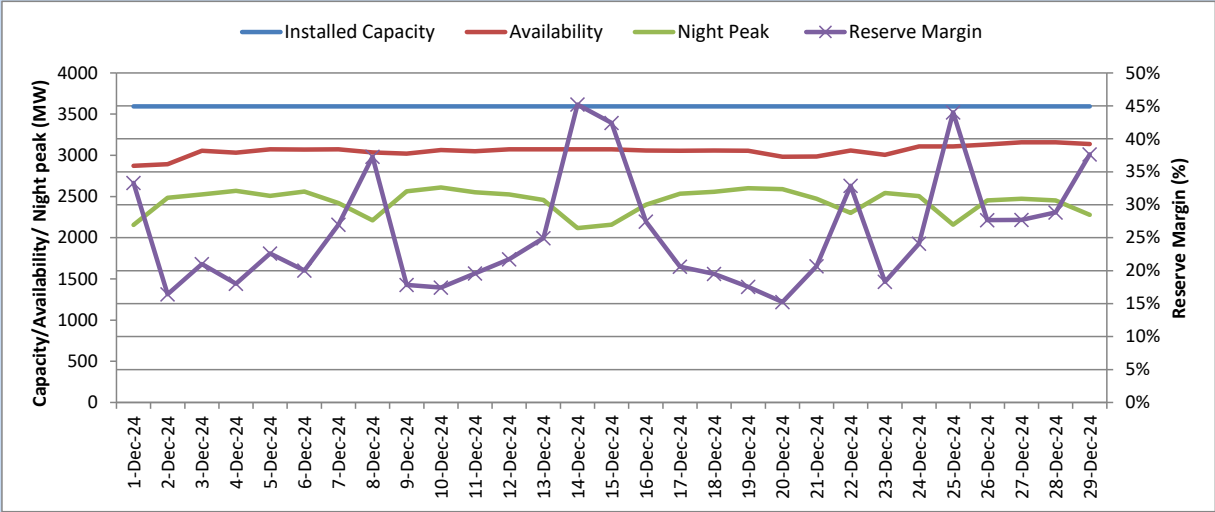


3.2 Load Curve of the Day with Highest Night Peak ,

10-Dec



3.3 Variation of Reserve Margin During Night Peak



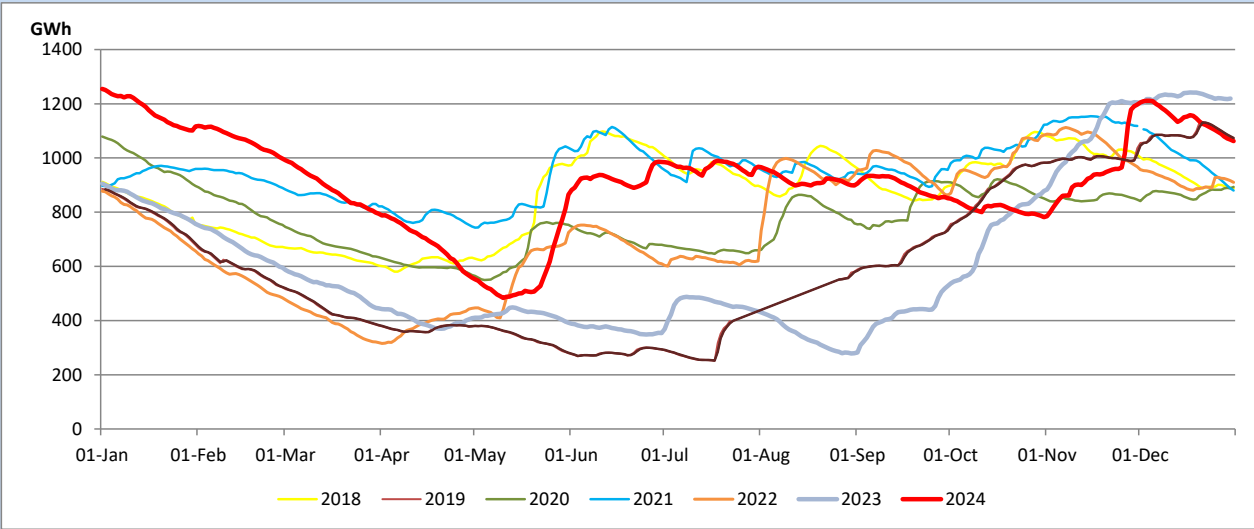
Note:Contribution from NCRE plants is not included

4 Reservoir Statistics

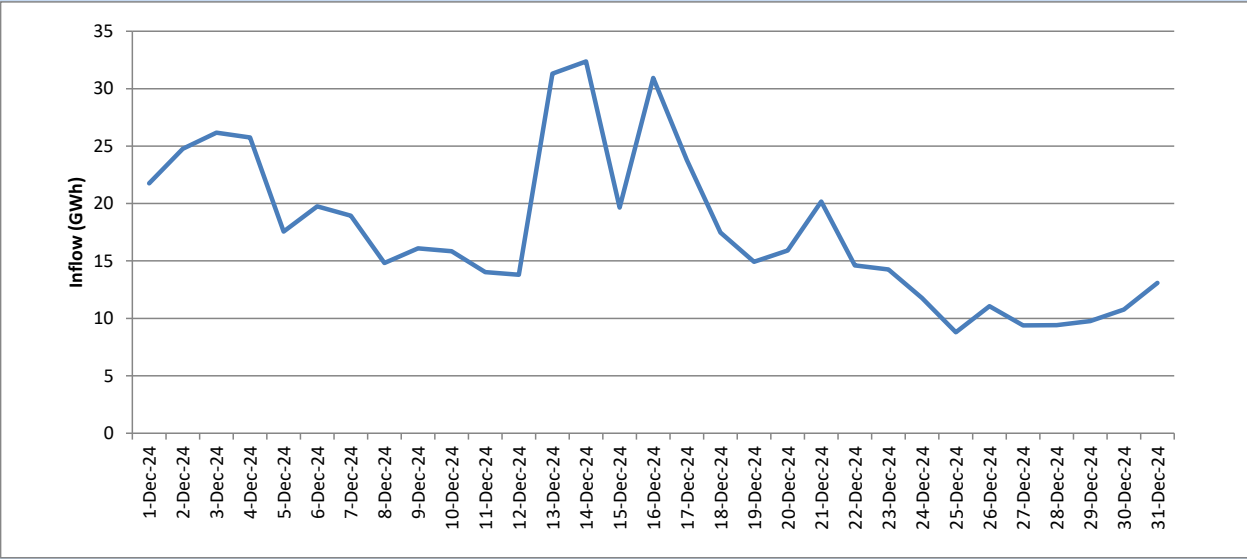
Table 05

Total Reservoir level at the beginning of the month	1209.1	GWh
Total Reservoir level at the end of the month	1060.4	GWh
Total Inflow	548.7	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

