

Monthly Generation Report

January-24



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

January-24

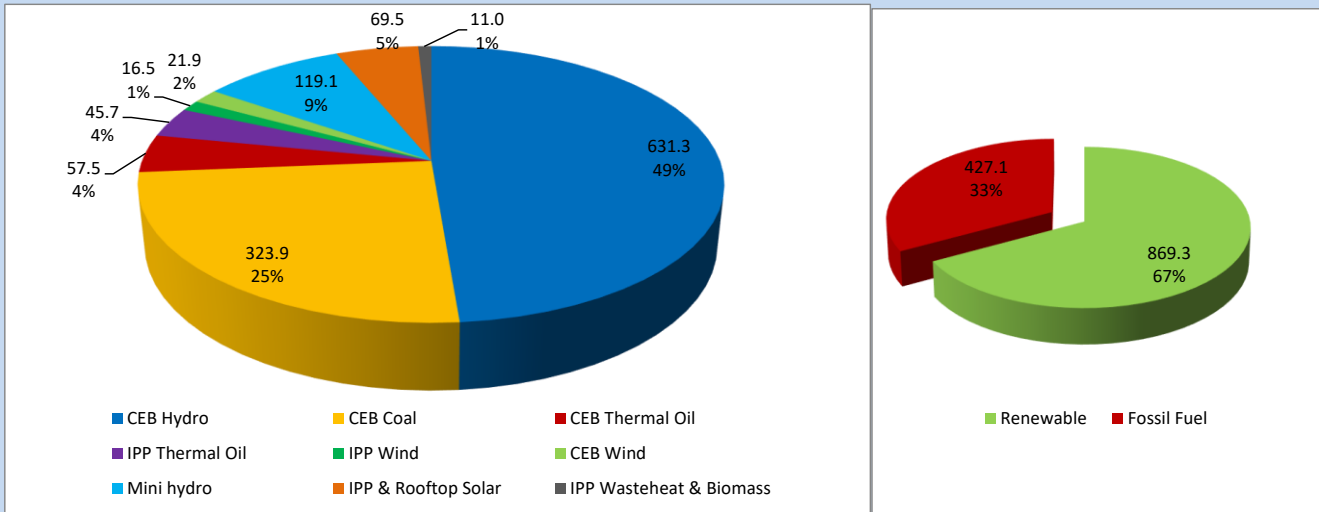


Table 01

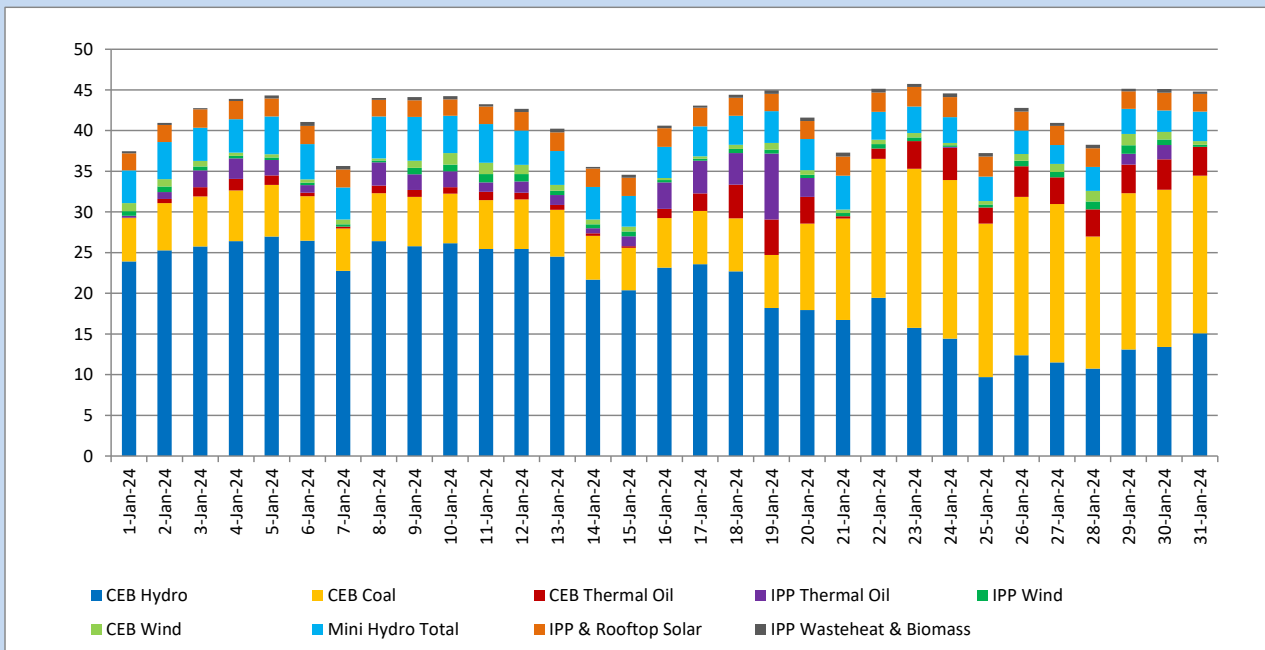
CEB Hydro	631	GWh
CEB Coal	324	GWh
CEB Thermal Oil	57	GWh
IPP Thermal Oil	46	GWh
IPP Wind	17	GWh
CEB Wind	22	GWh
Mini Hydro (Including non telemetered)	119	GWh
IPP Solar (Including estimated figures)	69	GWh
IPP Wasteheat + Biomass	11	GWh
Total Generation (Including estimated figures)	1,296	GWh

Total Generation = **1,296 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

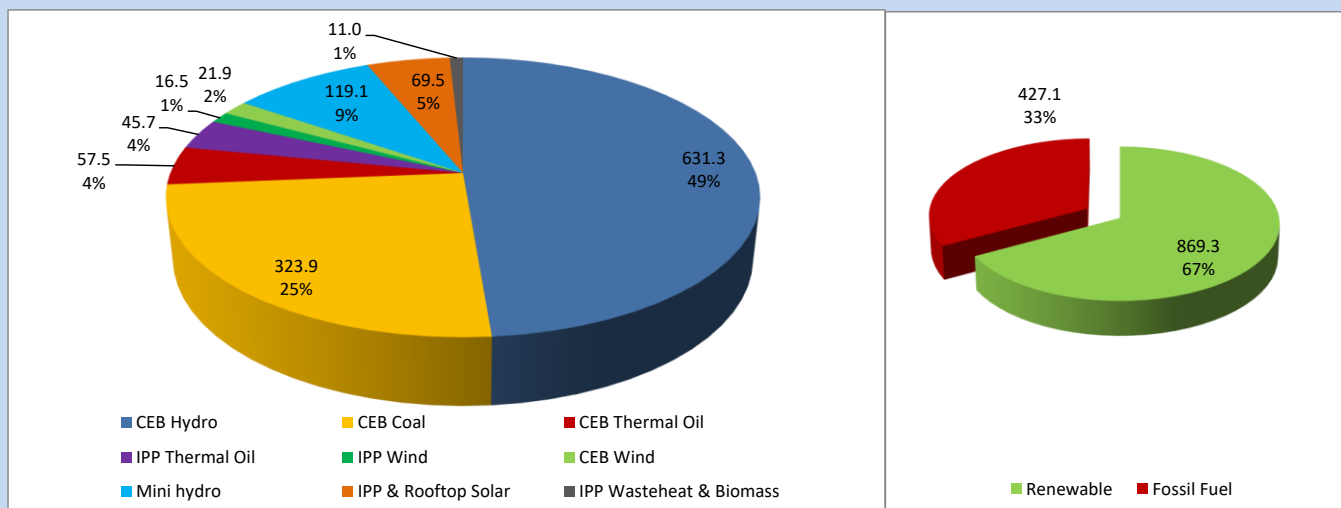


Table 02

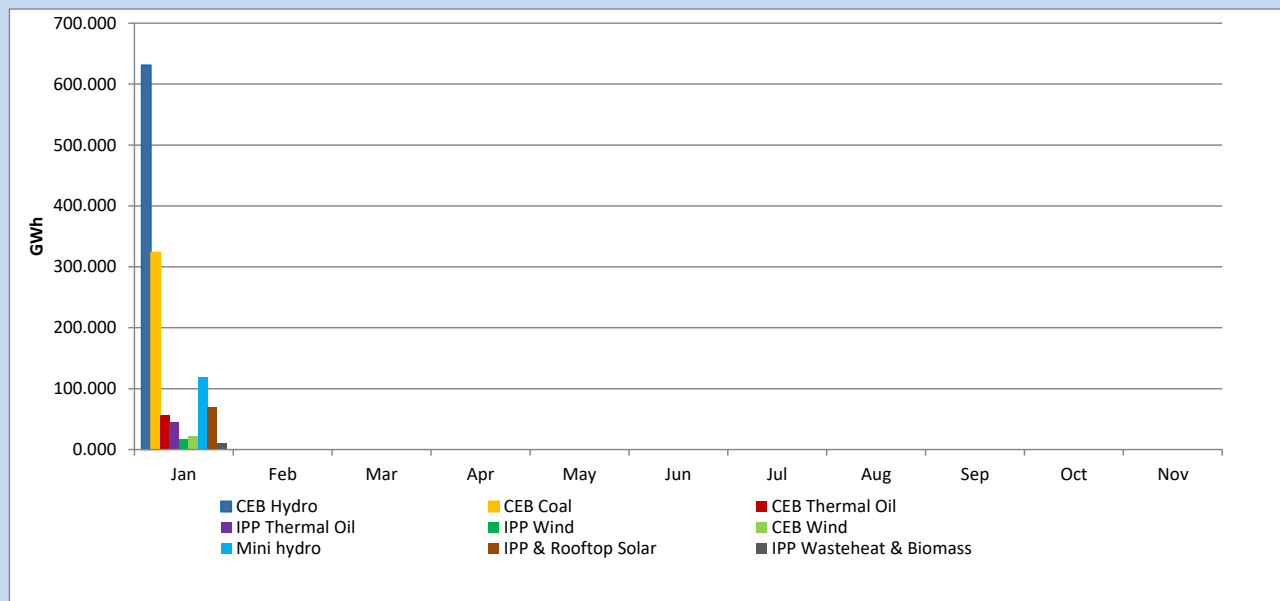
CEB Hydro	631.32	GWh
CEB Coal	323.91	GWh
CEB Thermal Oil	57.47	GWh
IPP Thermal Oil	45.69	GWh
IPP Wind	16.51	GWh
CEB Wind	21.91	GWh
Mini Hydro (Including non telemetered)	119.07	GWh
IPP Solar (Including estimated figures)	69.46	GWh
IPP Wasteheat + Biomass	11.04	GWh
Total Generation (Including estimated figures)	1296.38	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)	303
Rooftop Solar* (LT Bulk)	274
Rooftop Solar* (HT Bulk)	76

1.4 Variation of Monthly Generation Mix during the year



2 Major Plant Dispatch

2.1 Dispatch from all Generation Major Plants in

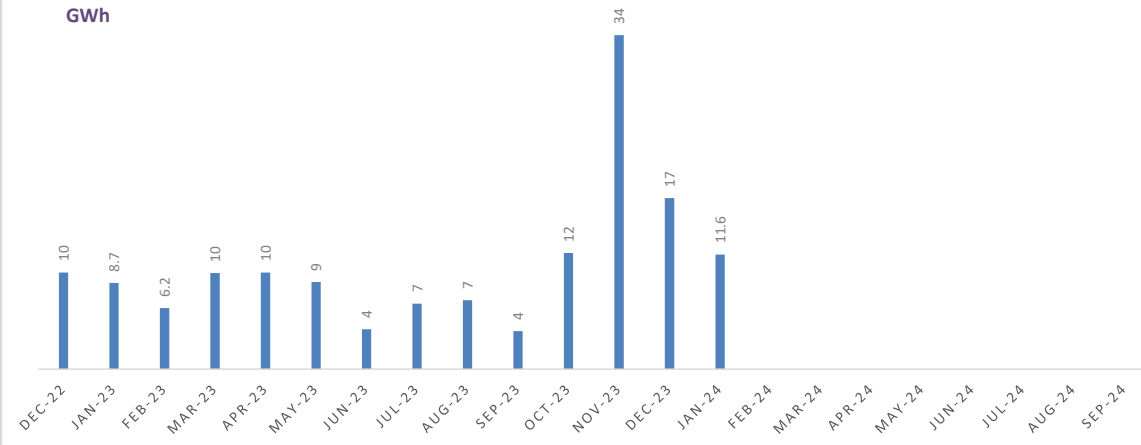
January-24

Table 04

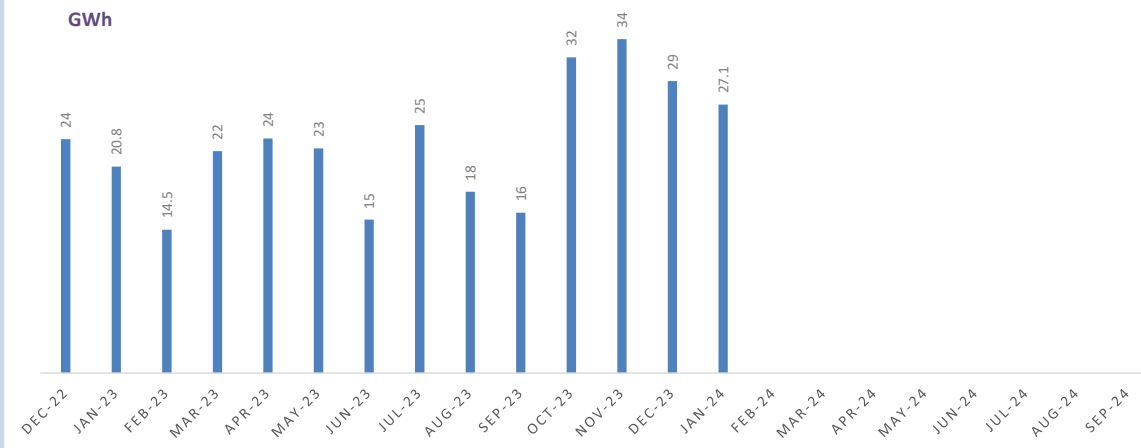
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	11,571	31.1%
Old Laxapana	54	27,108	67.5%
Canyon	60	15,112	33.9%
New Laxapana	100	48,630	65.4%
Polpitiya	90	40,160	60.0%
Broadlands	35	8,583	33.0%
Kotmale	201	54,070	36.2%
Victoria	210	121,925	78.0%
Randenigala	122	71,654	78.9%
Rantambe	50	34,228	92.0%
Ukuwela	40	19,138	64.3%
Bowatenna	40	16,873	56.7%
Upper Kotmale	150	48,218	43.2%
Nilambe	3	1,794	80.4%
Samanalawewa	120	72,255	80.9%
Kukule	75	26,814	48.1%
Inginiyagala	120	26	0.0%
Udawalawe	4	2,429	81.6%
Puttalam Coal I	270	67,323	33.5%
Puttalam Coal II	270	188,825	94.0%
Puttalam Coal III	270	74,142	36.9%
KPS Small GTs	64	0	0.0%
KPS GT 7	115	0	0.0%
KCCP	165	382	0.3%
Sapugaskanda A	64	12,198	25.6%
Sapugaskanda B	72	16,513	30.8%
Uthura Janani	24	4,812	26.9%
Barge CEB	60	25,247	56.6%
CEB - Hambantota	24	5	0.0%
CEB - Mathugama	16	4	0.0%
KCCPS -2	163	0	0.0%
ACE Matara	24	1,207	7.0%
West Coast	270	41,875	20.8%
ACE Embilipitiya	93	2624	3.8%

2.3 Generation of Major Power Plants From Last Year

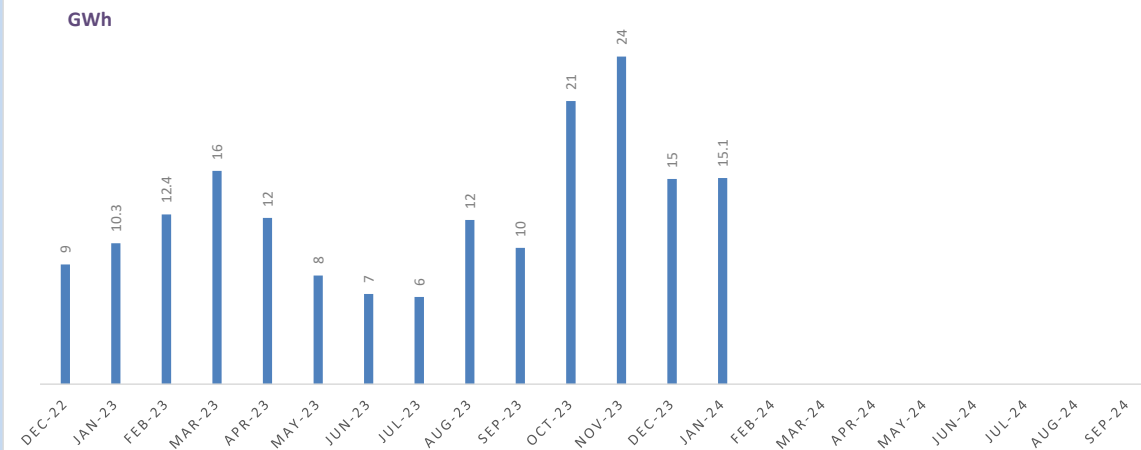
WIMALASURENDRA POWER STATION (53.5MW)



OLD LAXAPANA POWER STATION (53.5MW)

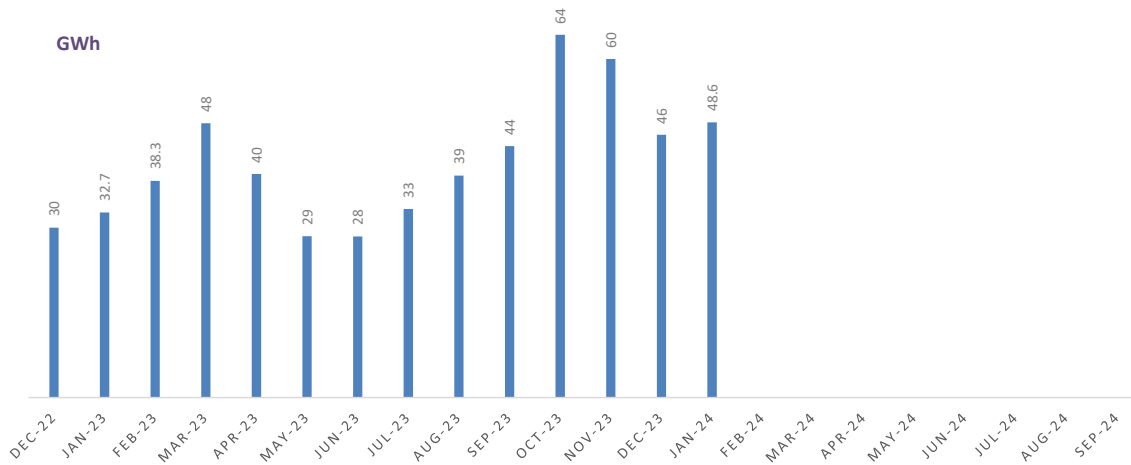


CANYON POWER STATION (60 MW)



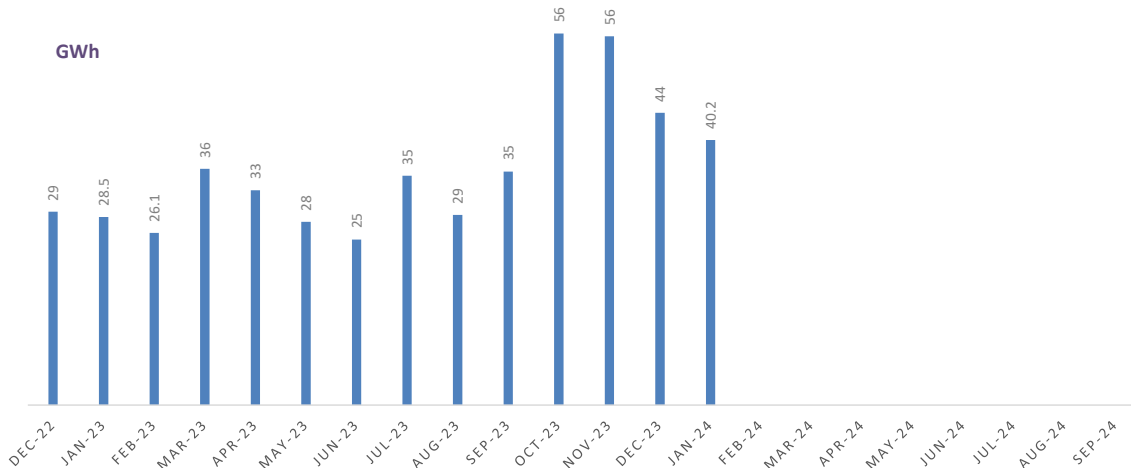
NEW LAXAPANA POWER STATION (115 MW)

GWh



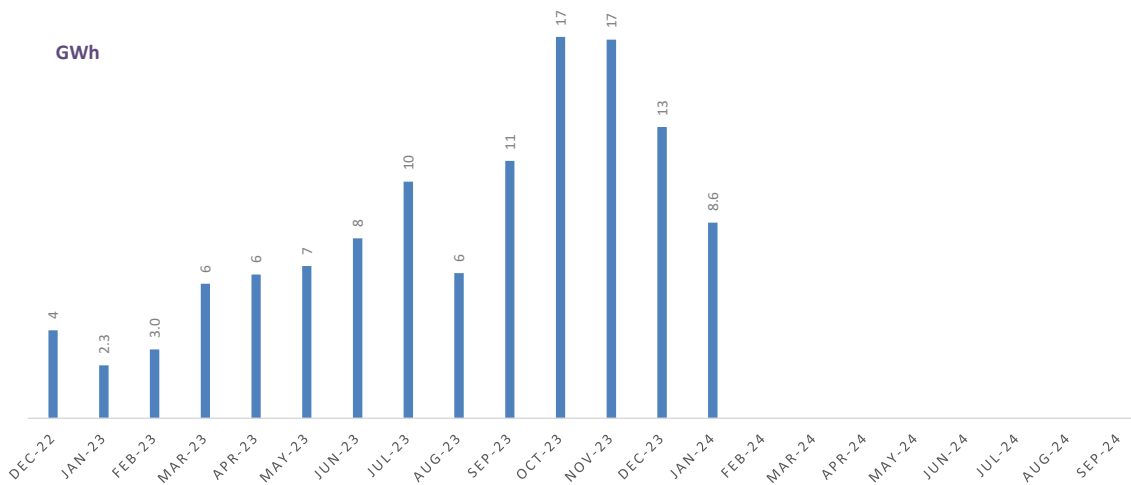
POLPITIYA POWER STATION (90 MW)

GWh



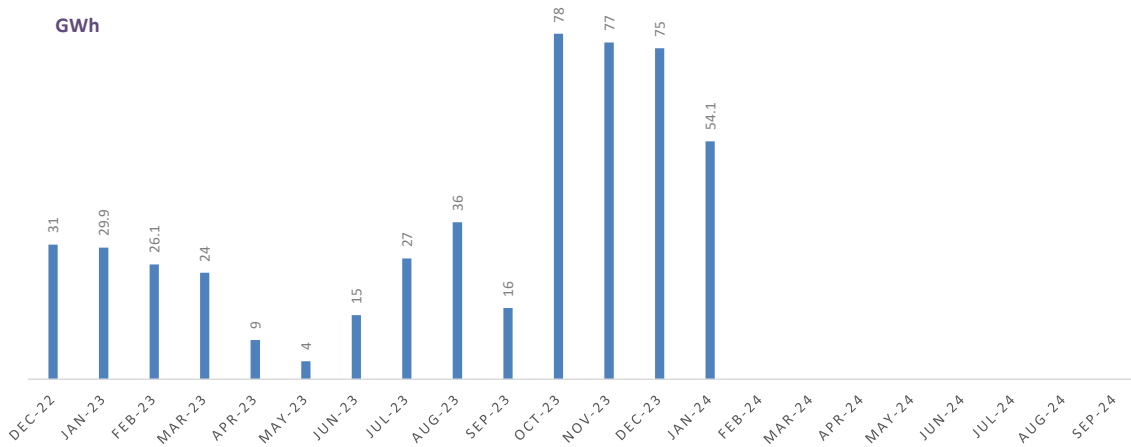
BROADLANDS POWER STATION (35 MW)

GWh



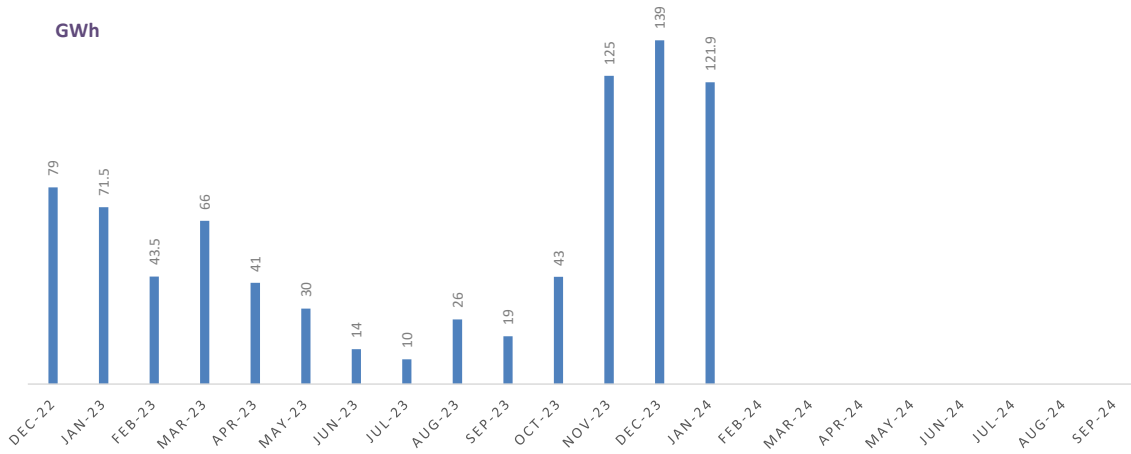
KOTMALE POWER STATION (201 MW)

GWh



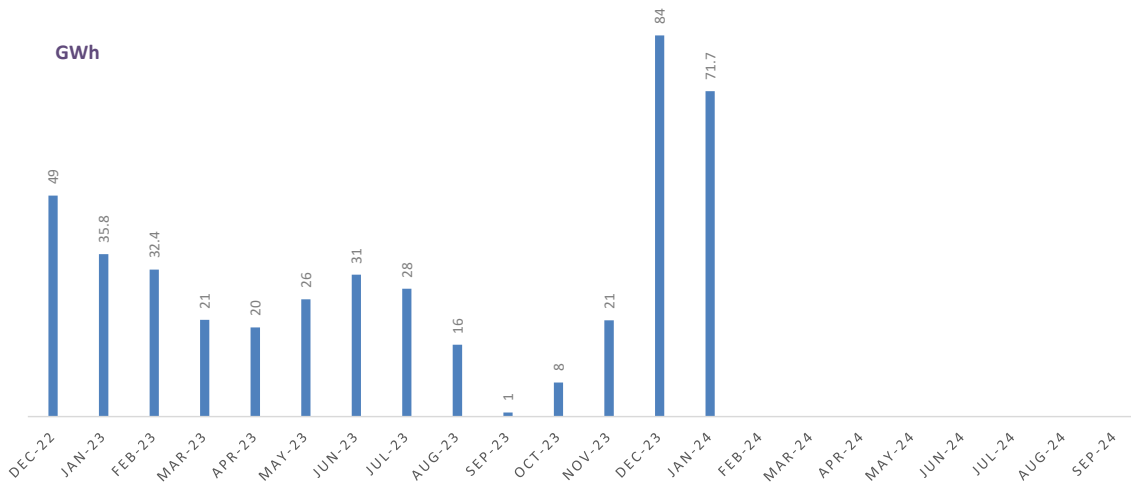
VICTORIA POWER STATION (225 MW)

GWh



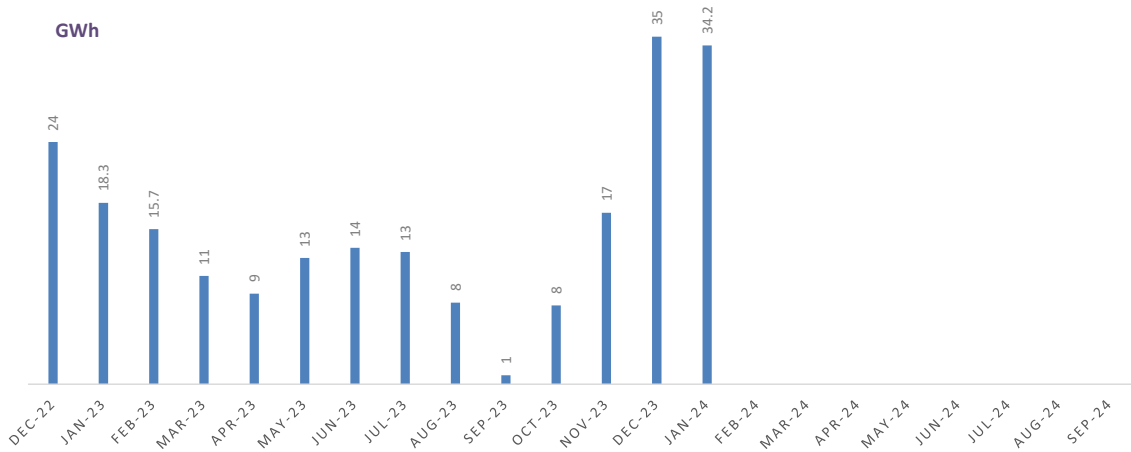
RANDENIGALA POWER STATION (114 MW)

GWh



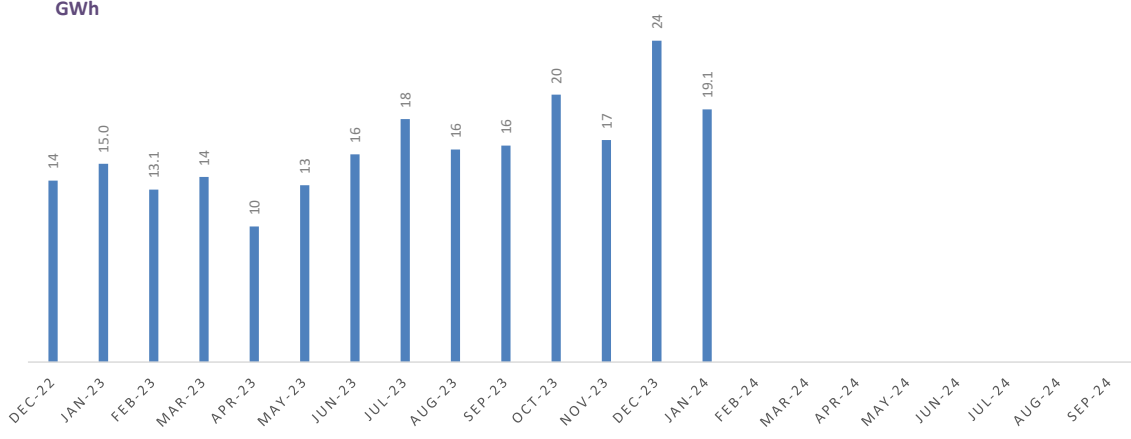
RANTAMBE POWER STATION (50 MW)

GWh



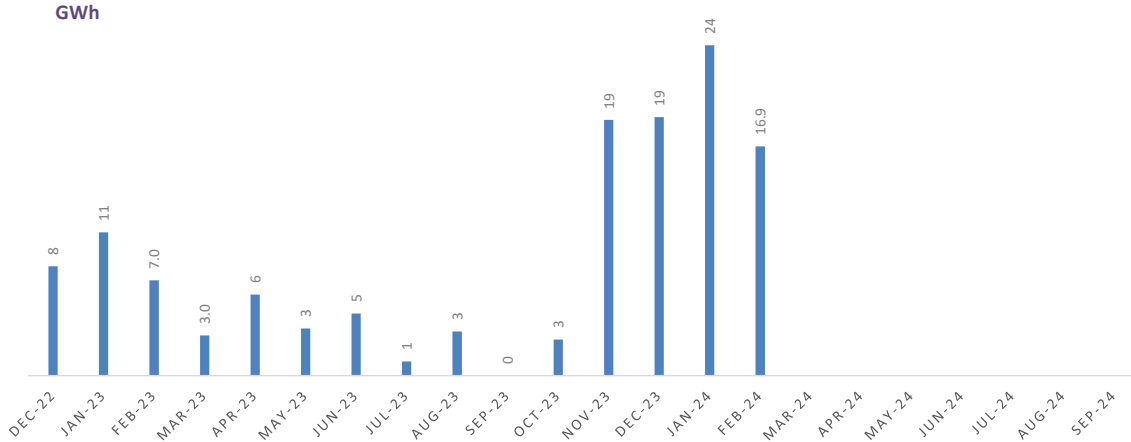
UKUWELA POWER STATION (37 MW)

GWh



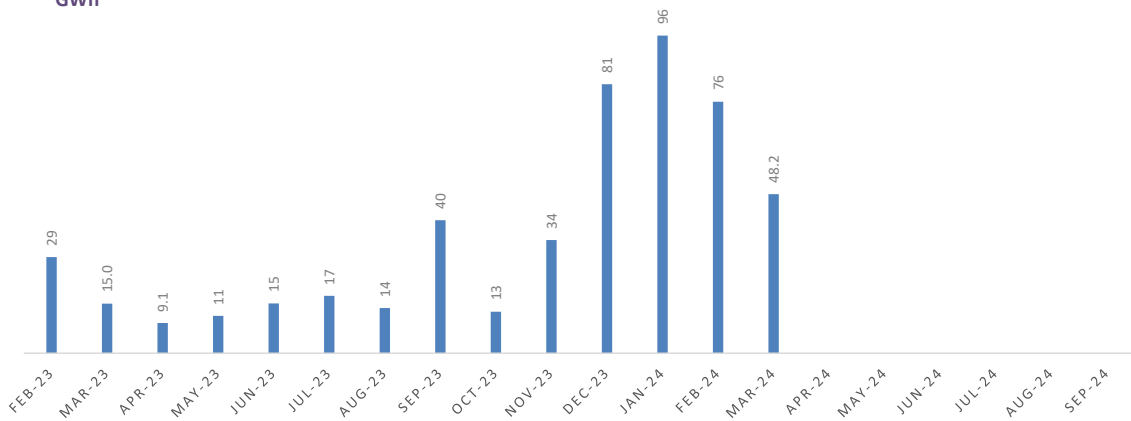
BOWATHENNA POWER STATION (40 MW)

GWh



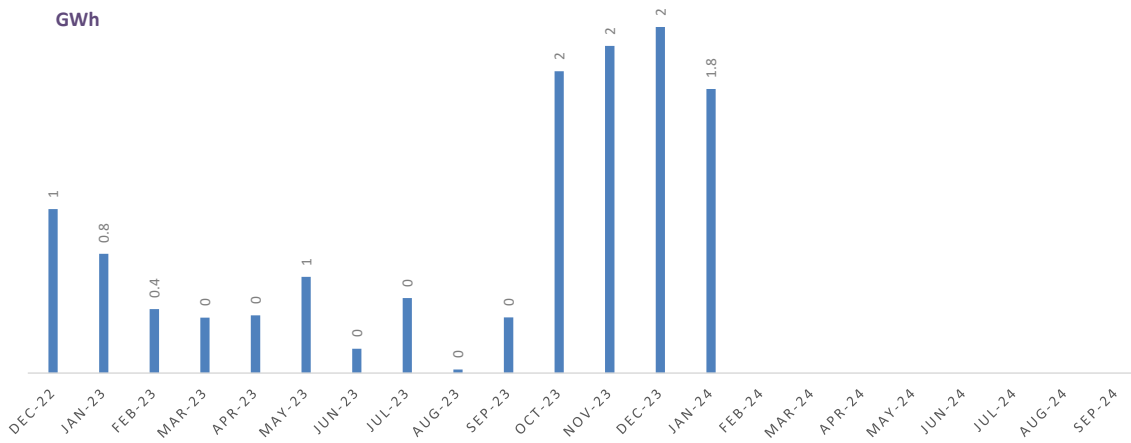
UPPER KOTMALE POWER STATION (150 MW)

GWh



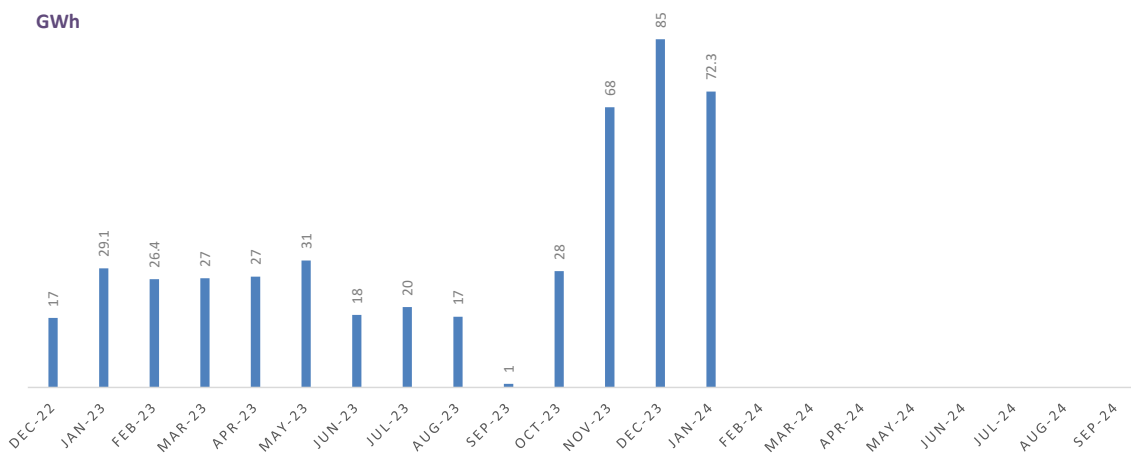
NILLAMBE POWER STATION (3 MW)

GWh



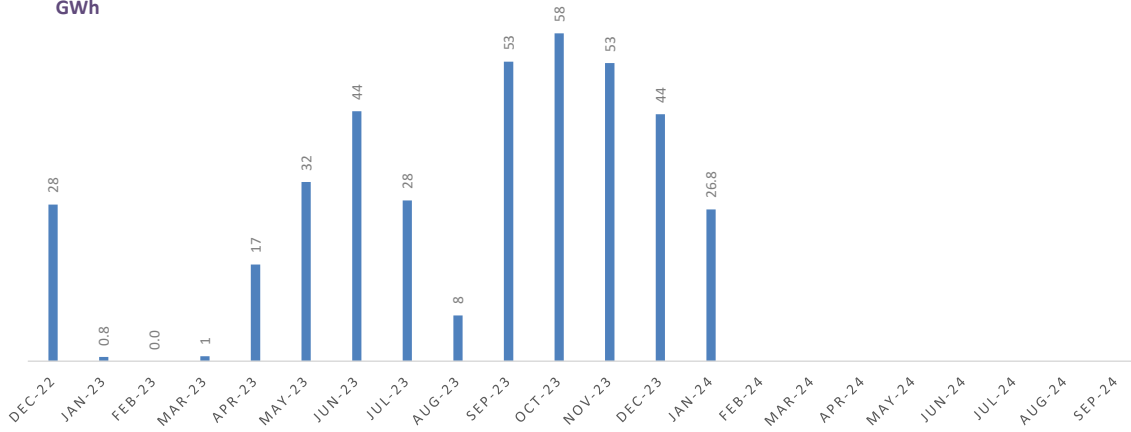
SAMANALAWEWA POWER STATION (120 MW)

GWh



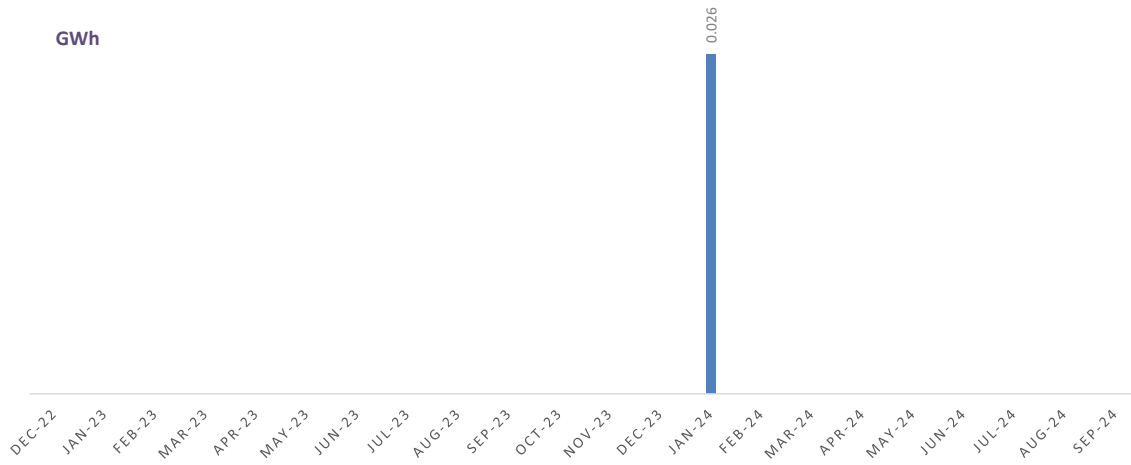
KUKULE POWER STATION (75 MW)

GWh



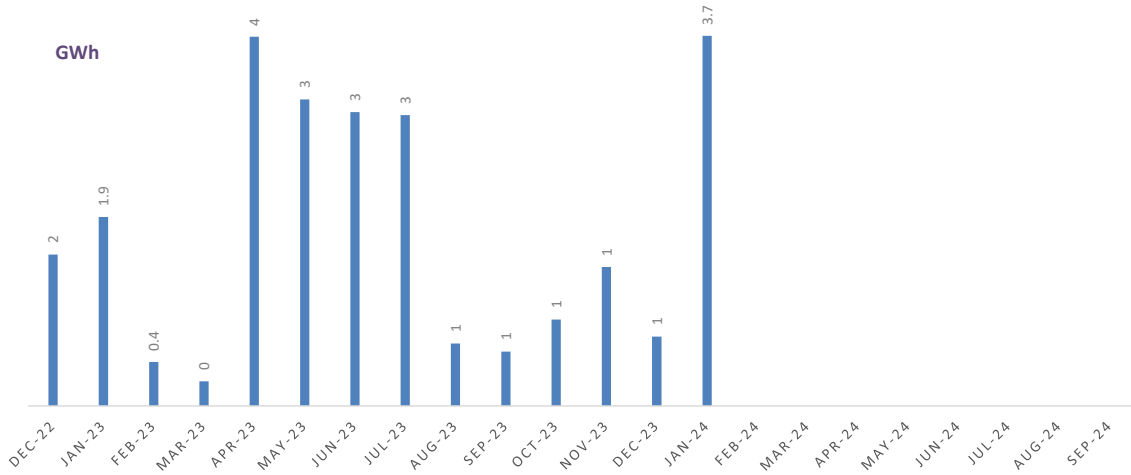
UMA OYA POWER STATION (150 MW)

GWh



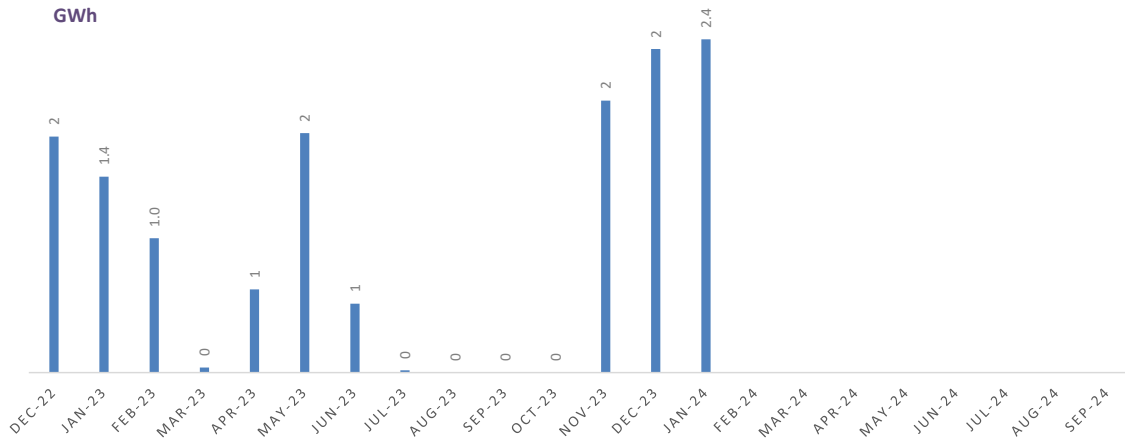
INGINIYAGALA POWER STATION (11 MW)

GWh



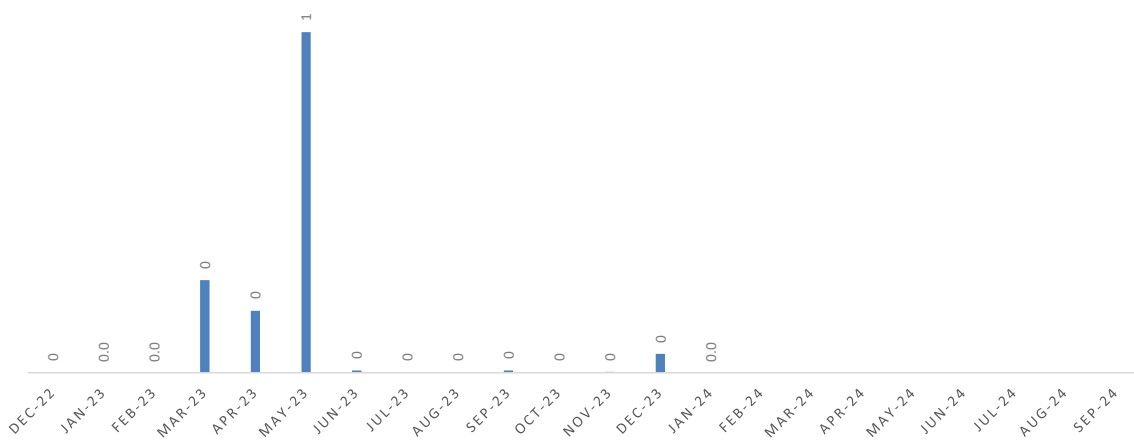
UDAWALAWE POWER STATION (6 MW)

GWh



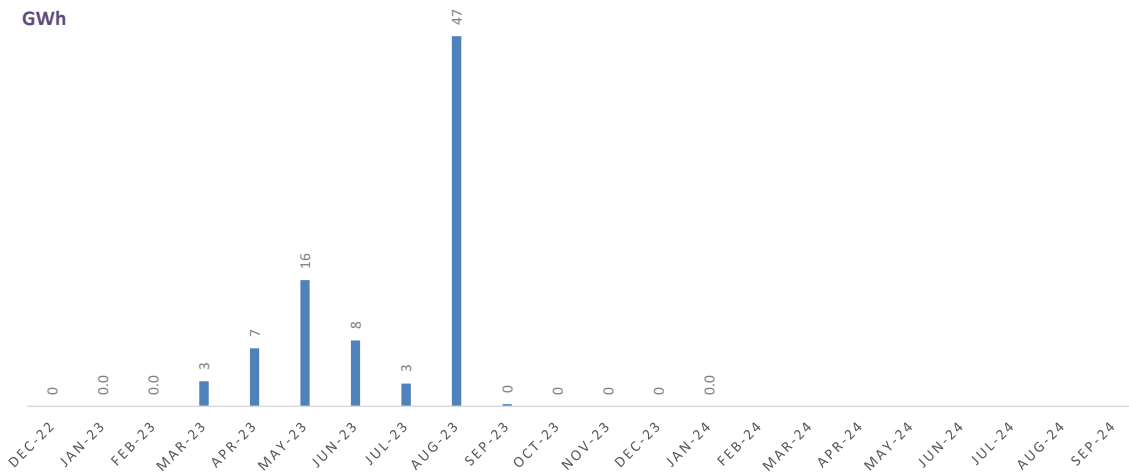
KELANITISSA SMALL GAS TURBINES (4 × 16 MW)

GWh



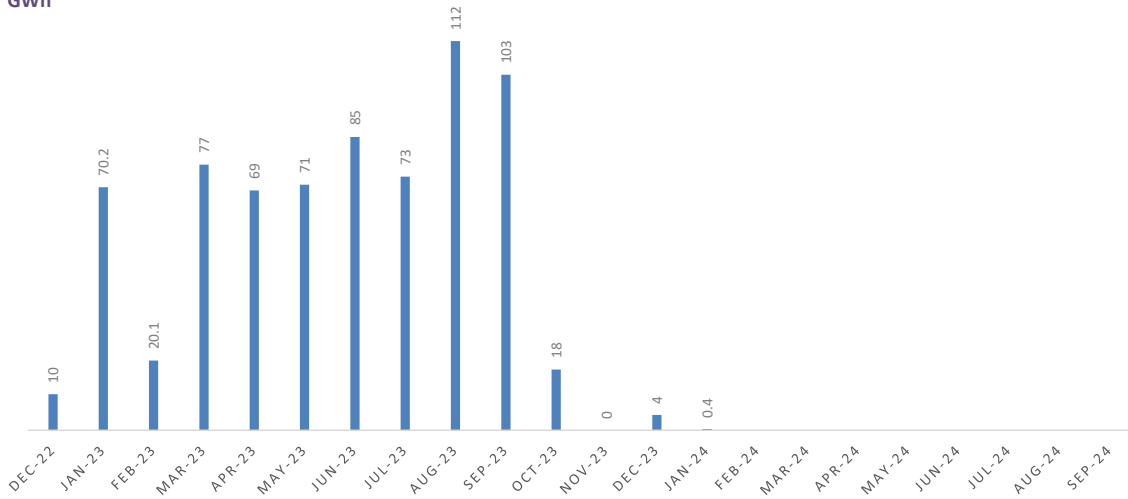
KELANITISSA GT 7 (115 MW)

GWh



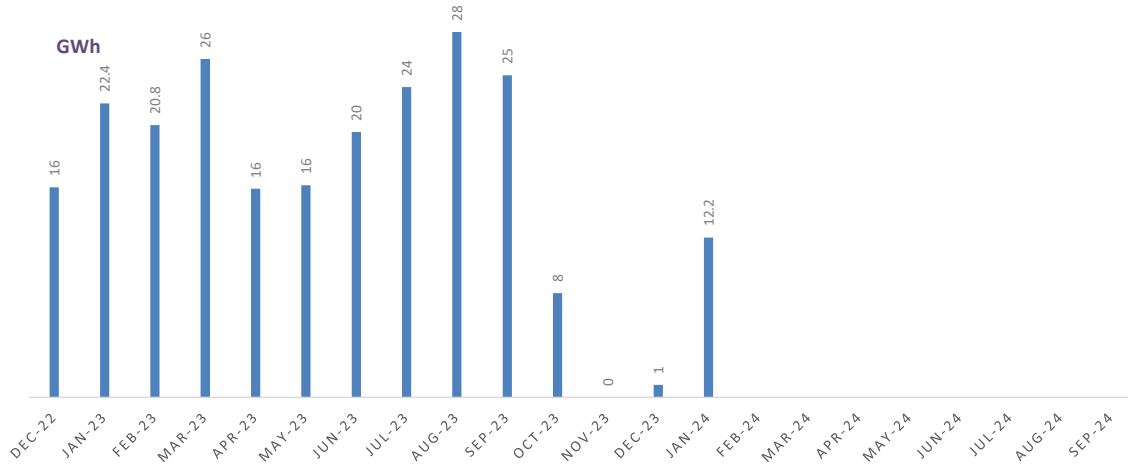
GWh

KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)



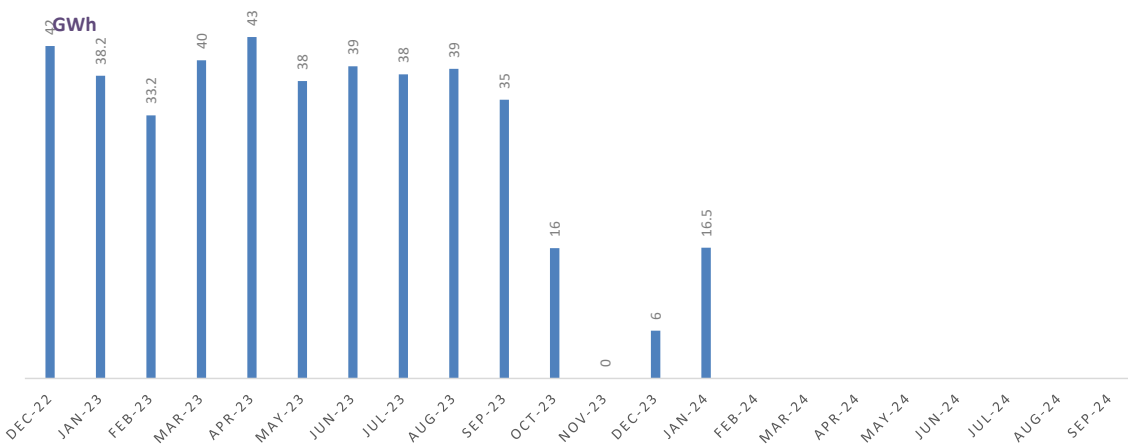
SAPUGASKANDA - A POWER STATION (80 MW)

GWh



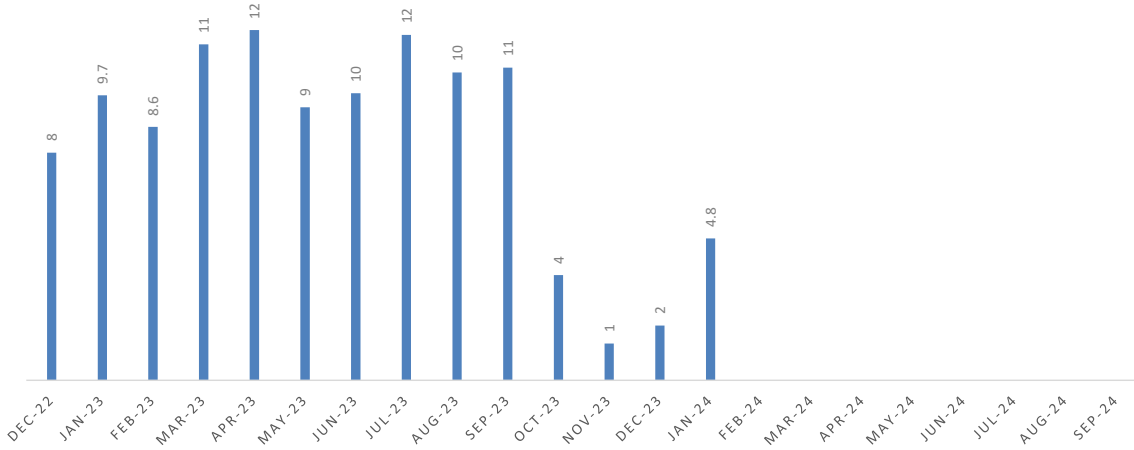
SAPUGASKANDA - B POWER STATION (80 MW)

GWh



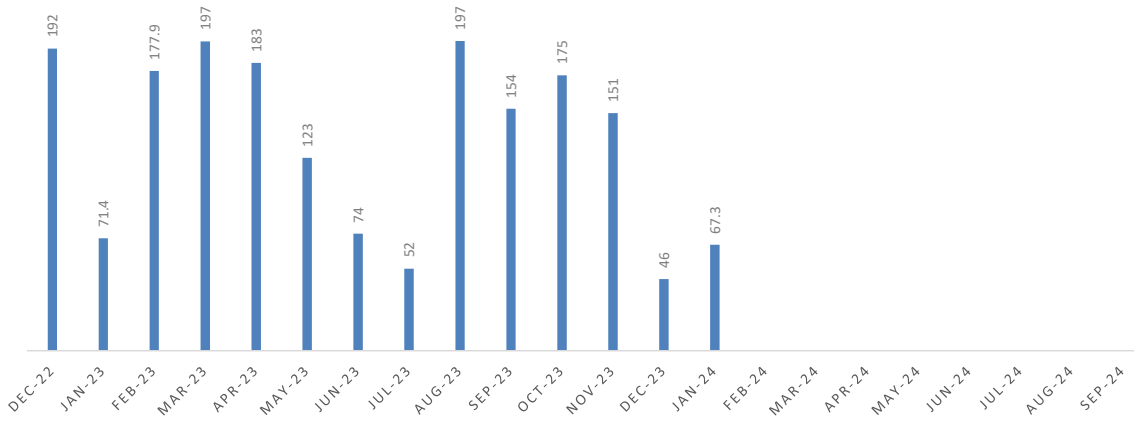
UTHURU JANANEE POWER STATION (24 MW)

GWh



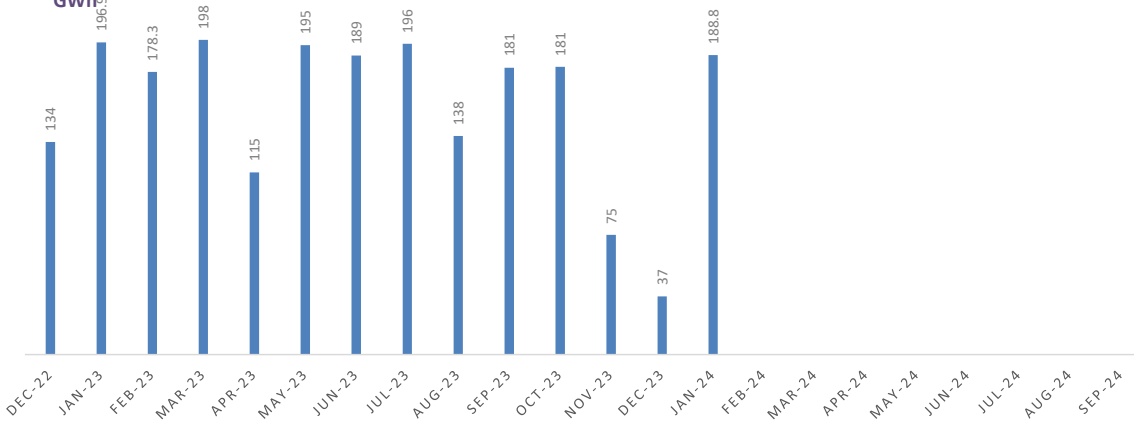
LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)

GWh

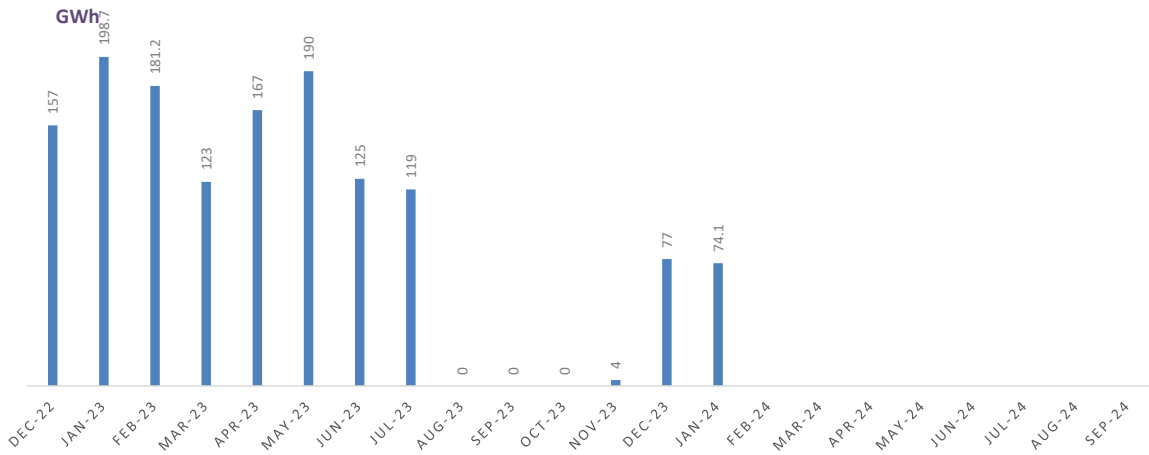


LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)

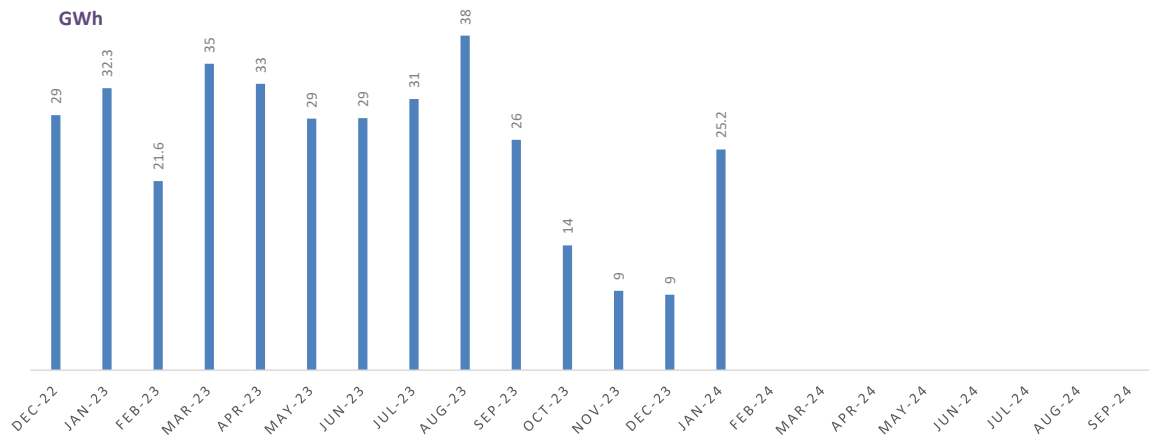
GWh



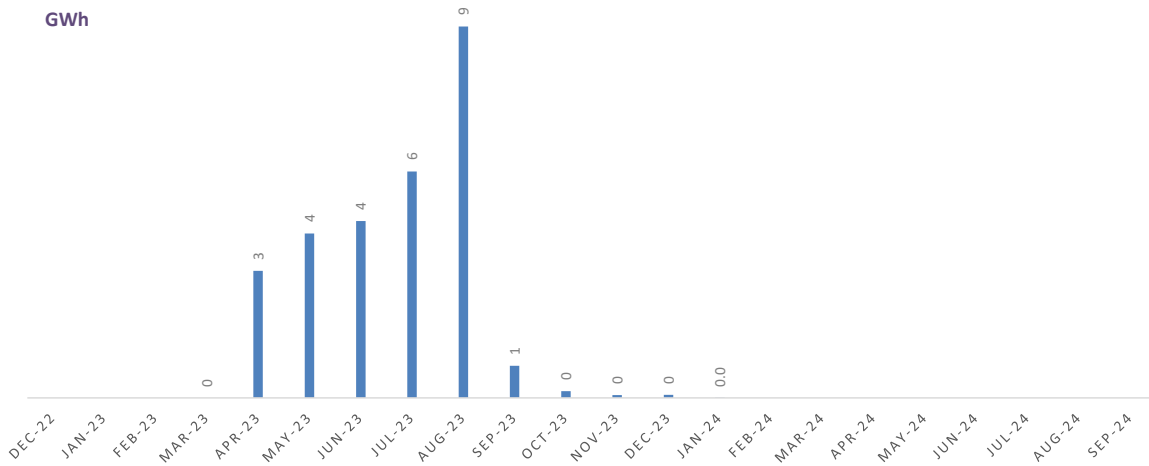
LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



BARGE POWER STATION - CEB (60 MW)

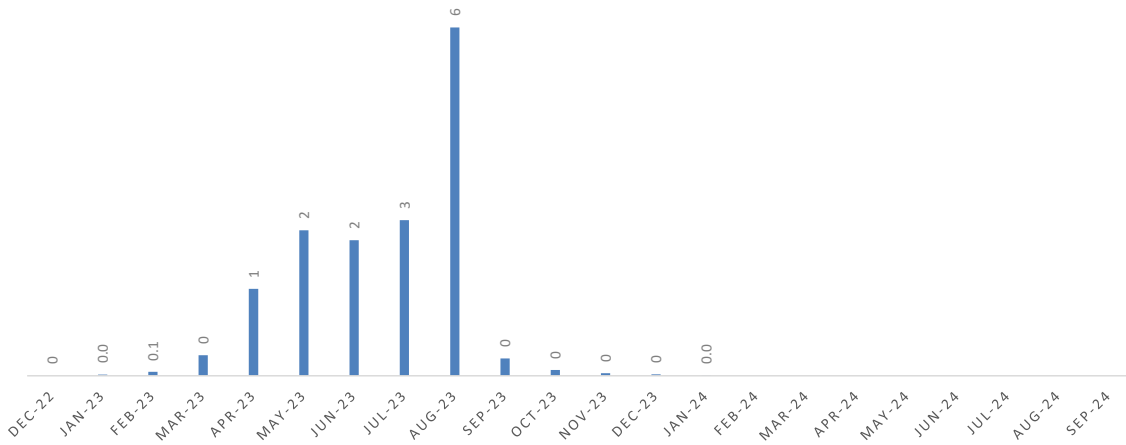


HAMBANTOTA - CEB (24 MW)



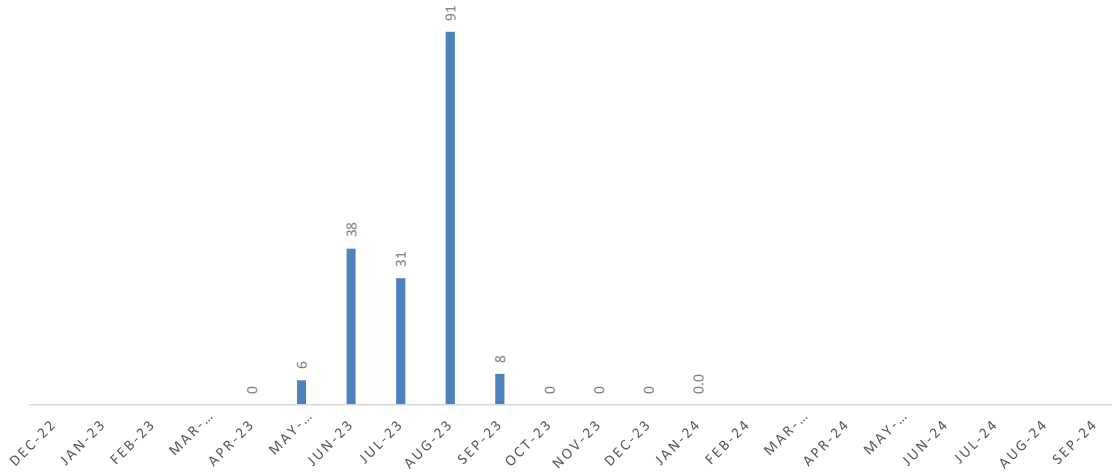
MATHUGAMA - CEB (16 MW)

GWh



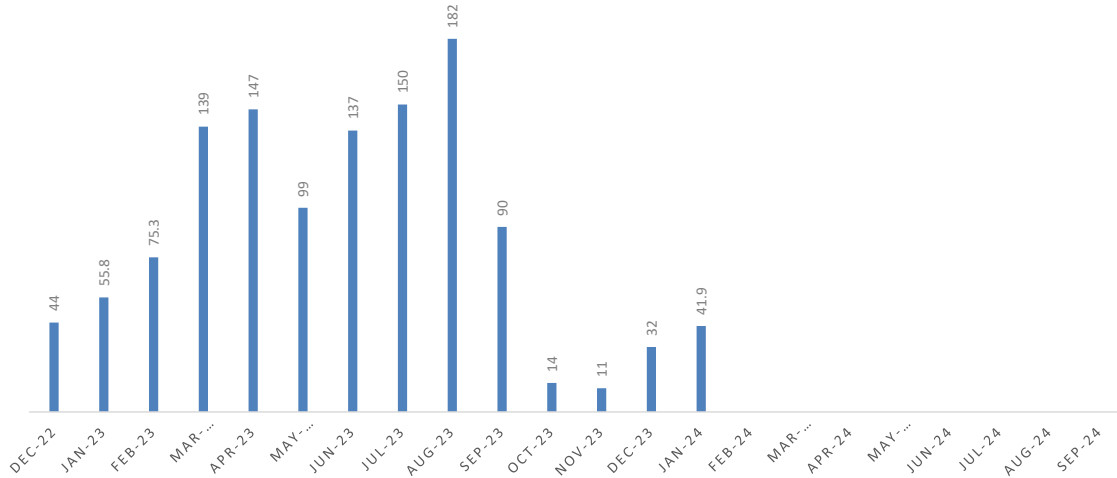
KCCPS - 02 POWER STATION (163 MW)

GWh



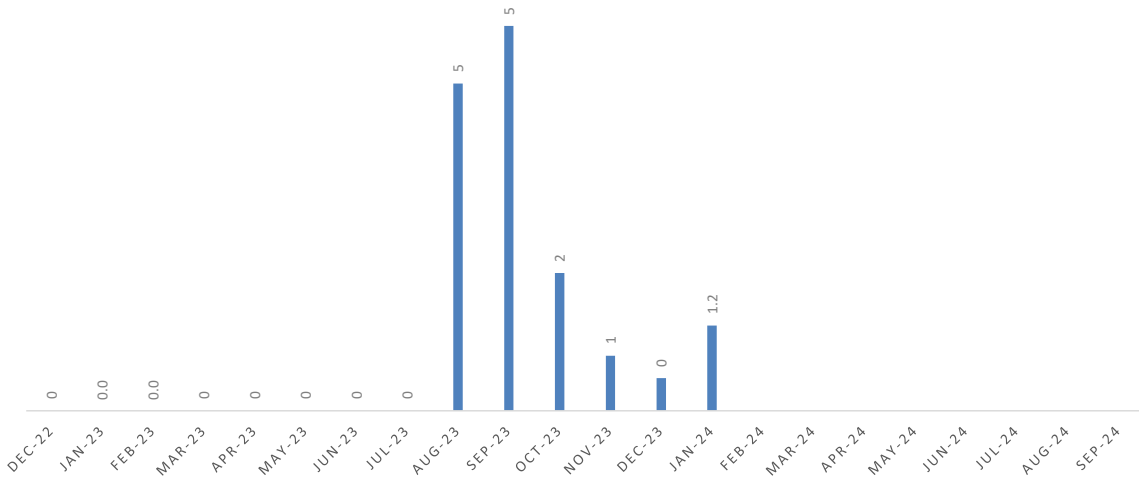
WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)

GWh



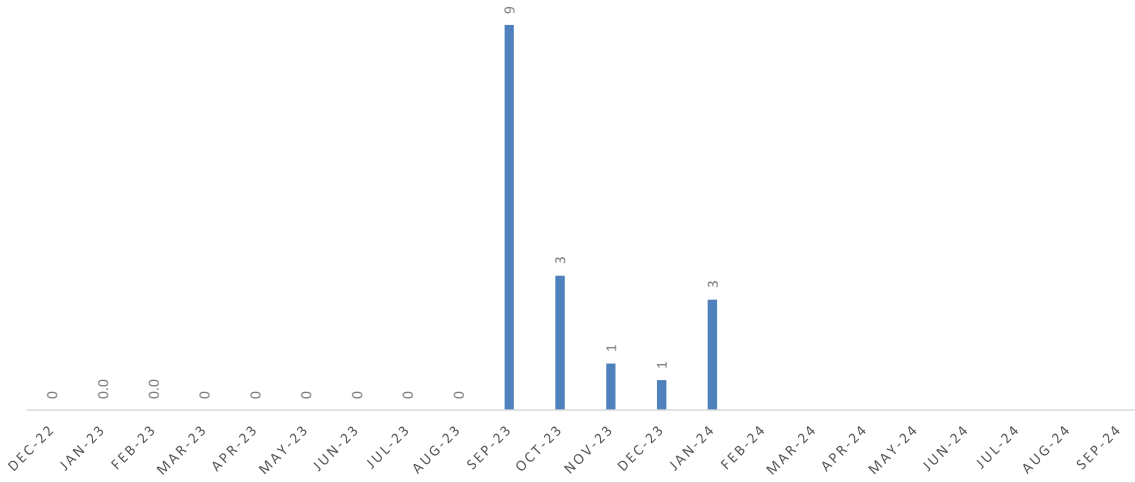
ACE - MATARA (24 MW)

GWh



ACE - EMBILIPITIYA (93 MW)

GWh



3 Peak Demand

During the month;

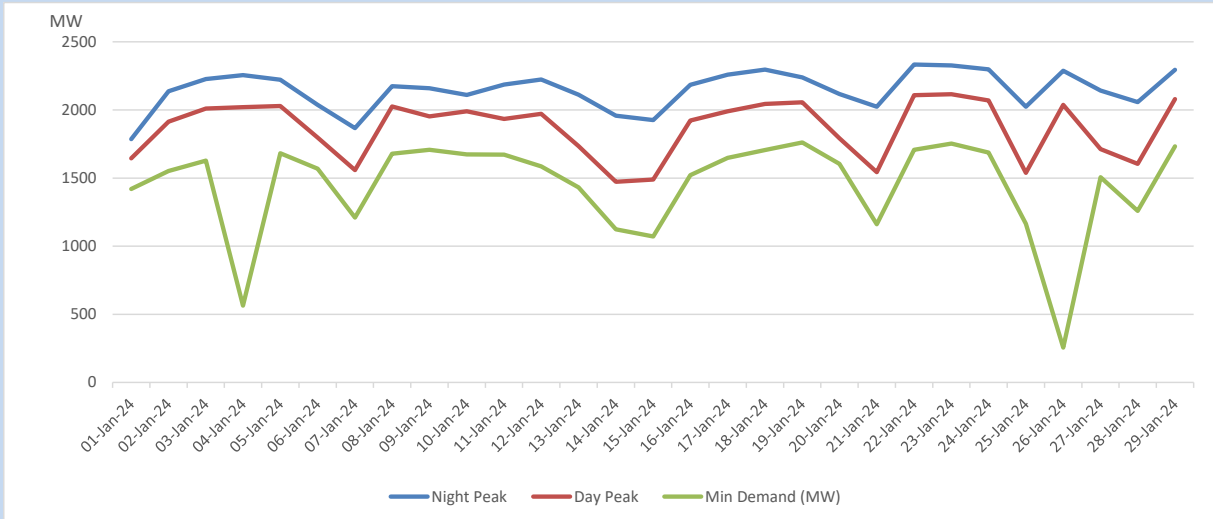
Table 05

Highest Peak Demand	2,333	MW
Lowest Peak Demand	1,786	MW
Highest Day Peak Demand	2,115	MW
Minimum Demand	256	MW

on 22-Jan
on 01-Jan
on 23-Jan
on 26-Jan

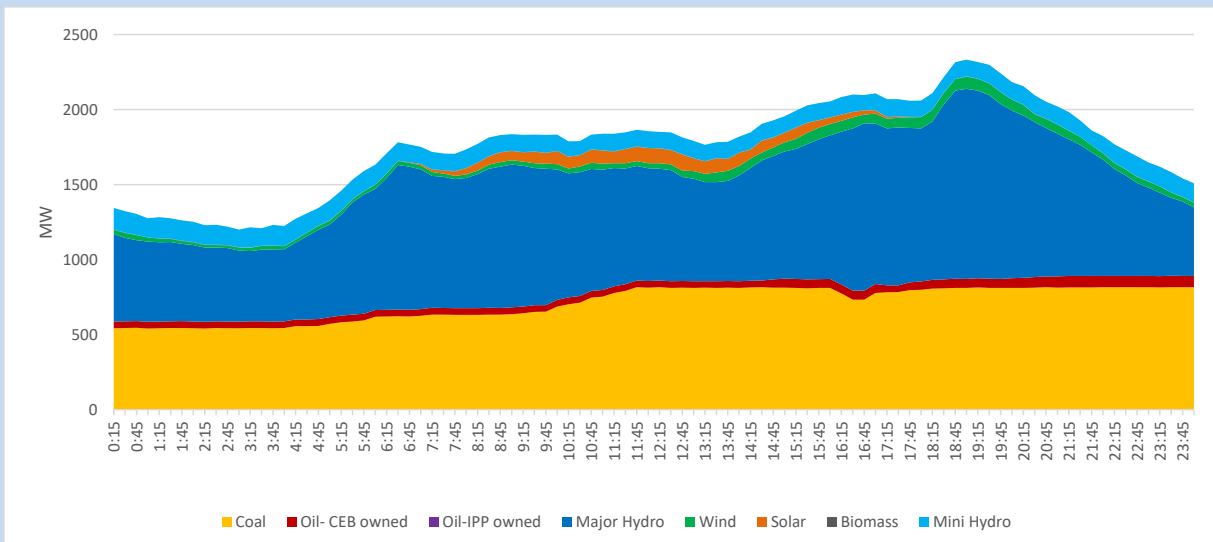
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

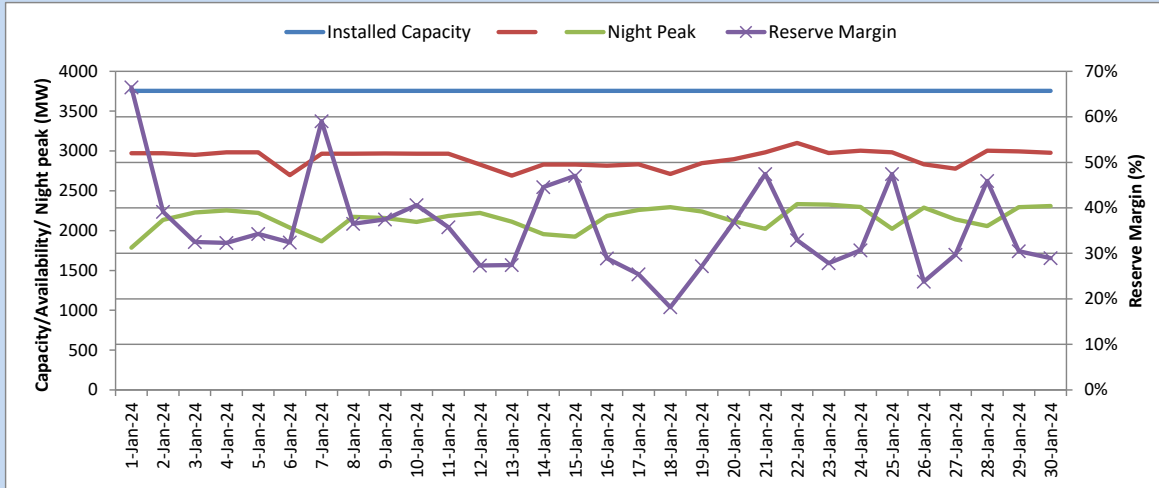


3.2 Load Curve of the Day with Highest Night Peak ,

22-Jan



3.3 Variation of Reserve Margin During Night Peak



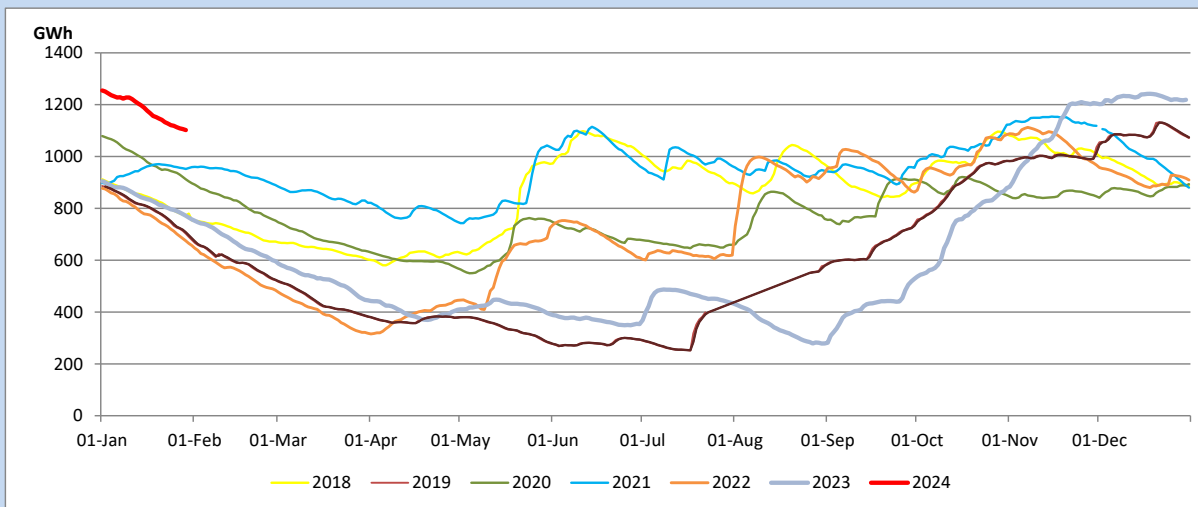
Note: Contribution from NCRE plants is not included

4 Reservoir Statistics

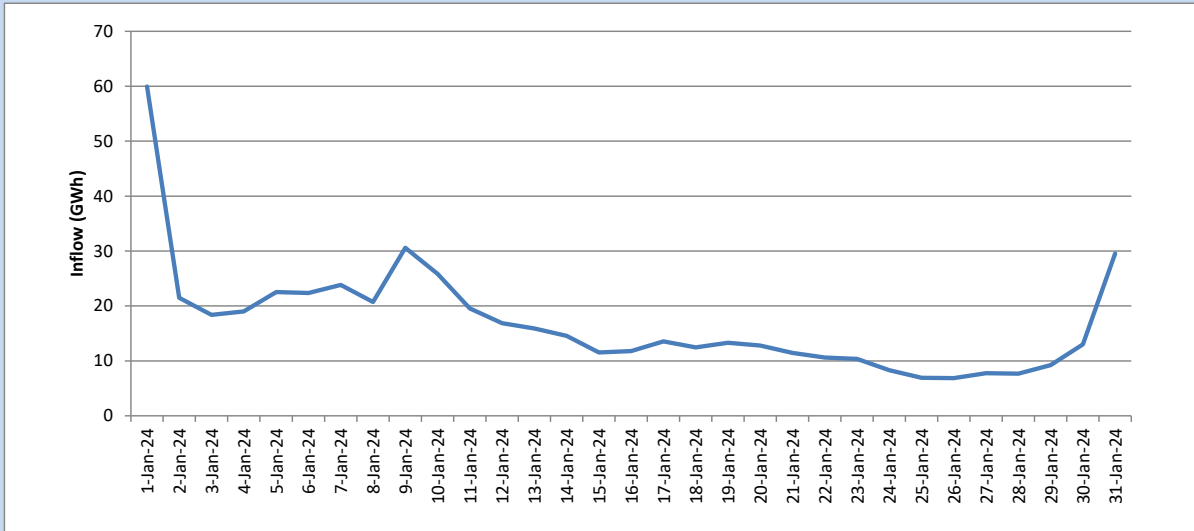
Table 05

Total Reservoir level at the beginning of the month	1218.7 GWh
Total Reservoir level at the end of the month	1116.1 GWh
Total Inflow	528.7 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

