

Monthly Generation Report

February-24



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

February-24

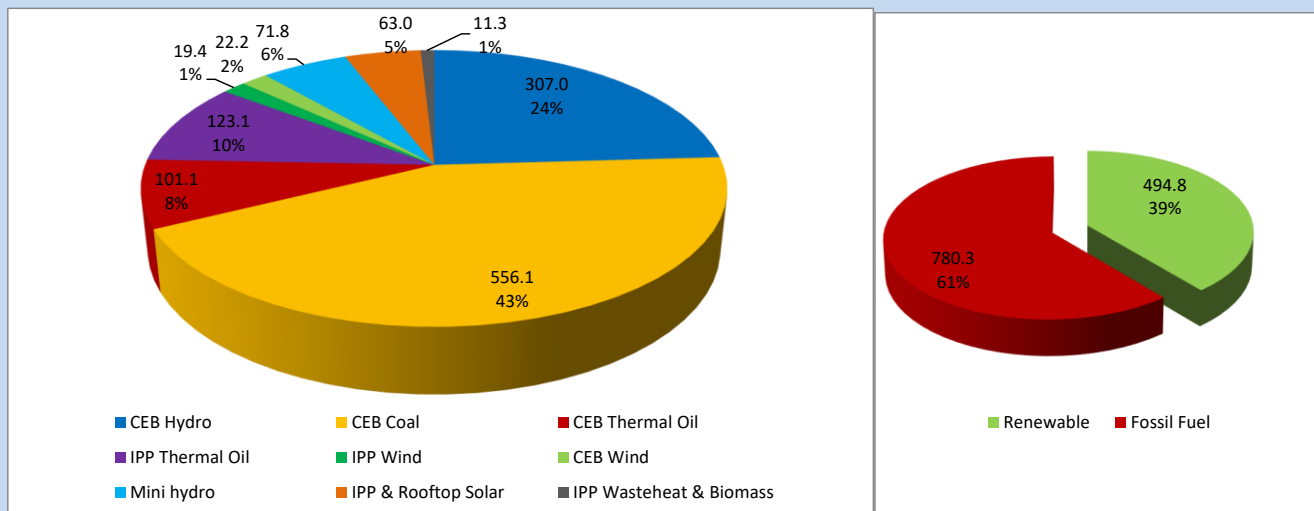


Table 01

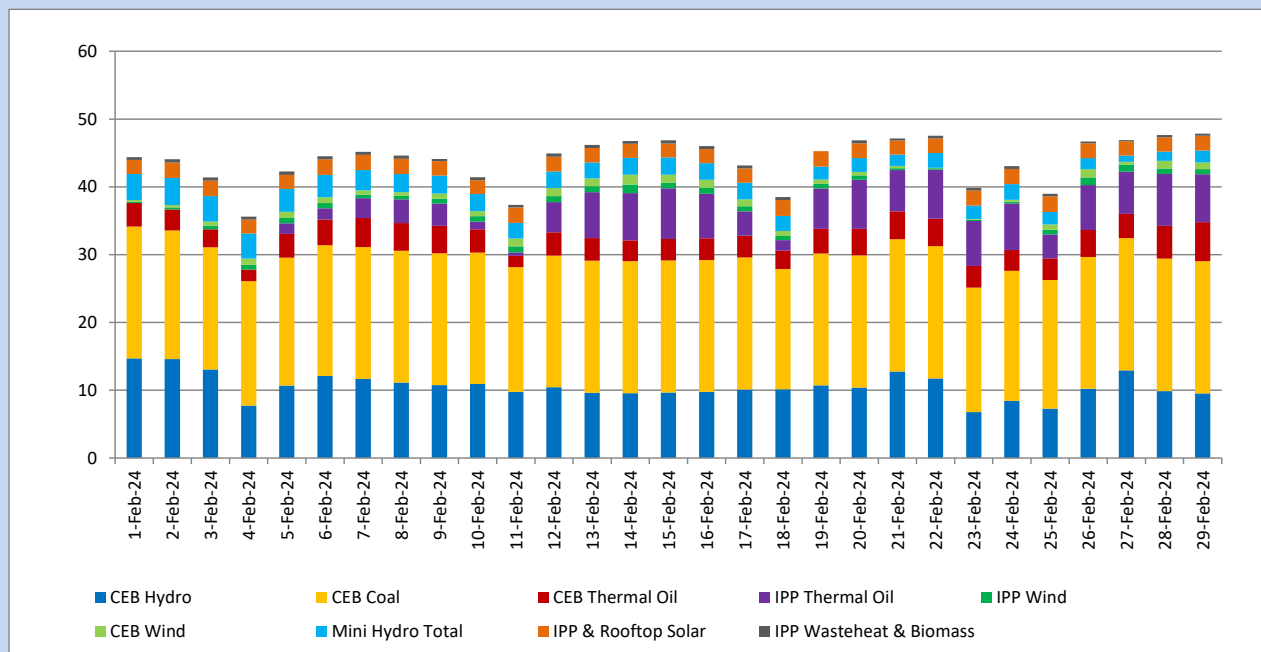
CEB Hydro	307	GWh
CEB Coal	556	GWh
CEB Thermal Oil	101	GWh
IPP Thermal Oil	123	GWh
IPP Wind	19	GWh
CEB Wind	22	GWh
Mini Hydro (Including non telemetered)	72	GWh
IPP Solar (Including estimated figures)	63	GWh
IPP Wasteheat + Biomass	11	GWh
Total Generation (Including estimated figures)	1,275	GWh

Total Generation = 1,275 GWh

Total Estimated Unserved Energy duty power cut = 0 GWh

Estimated total generation from Mini hydro, 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

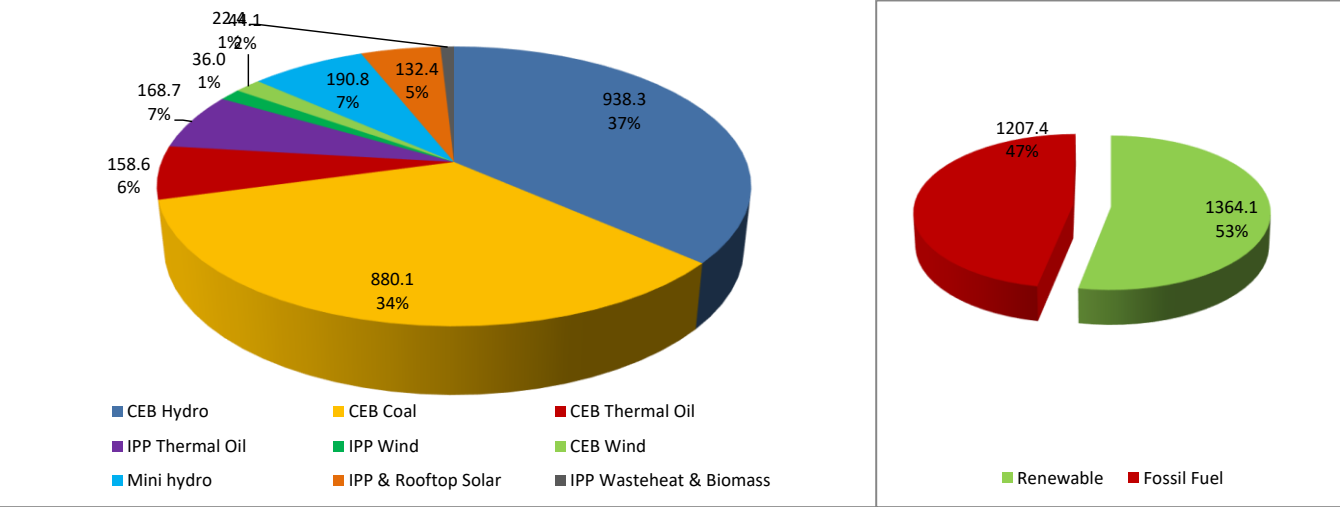


Table 02

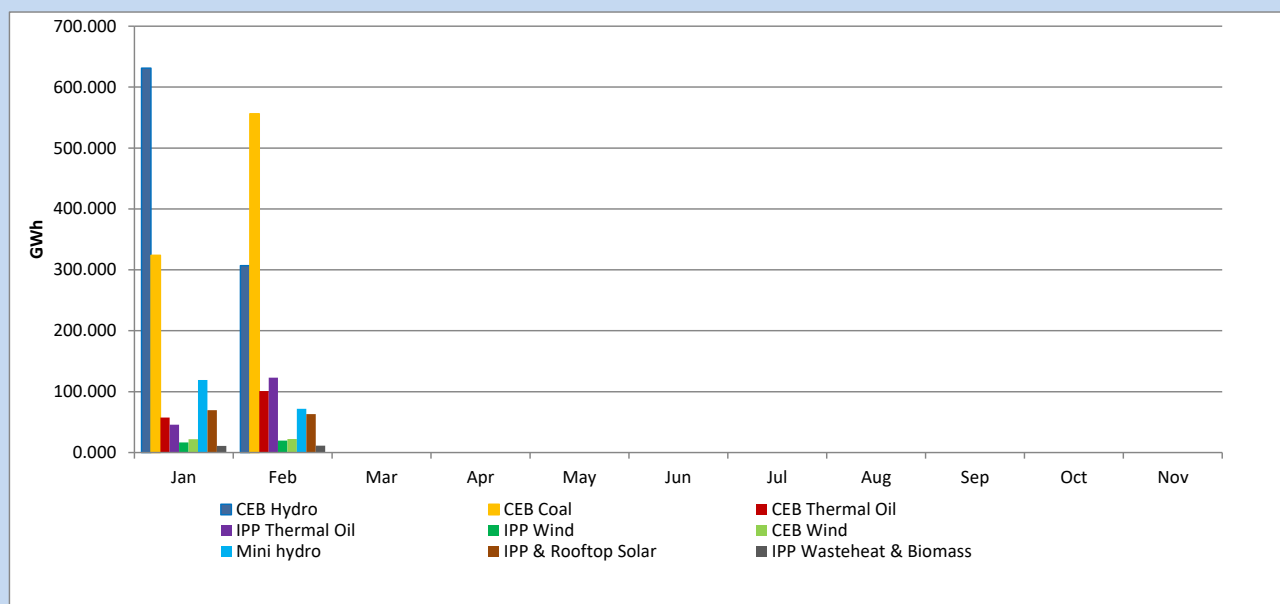
CEB Hydro	938.33	GWh
CEB Coal	880.05	GWh
CEB Thermal Oil	158.58	GWh
IPP Thermal Oil	168.74	GWh
IPP Wind	35.95	GWh
CEB Wind	44.14	GWh
Mini Hydro (Including non telemetered)	190.84	GWh
IPP Solar (Including estimated figures)	132.44	GWh
IPP Wasteheat + Biomass	22.36	GWh
Total Generation (Including estimated figures)	2571.43	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

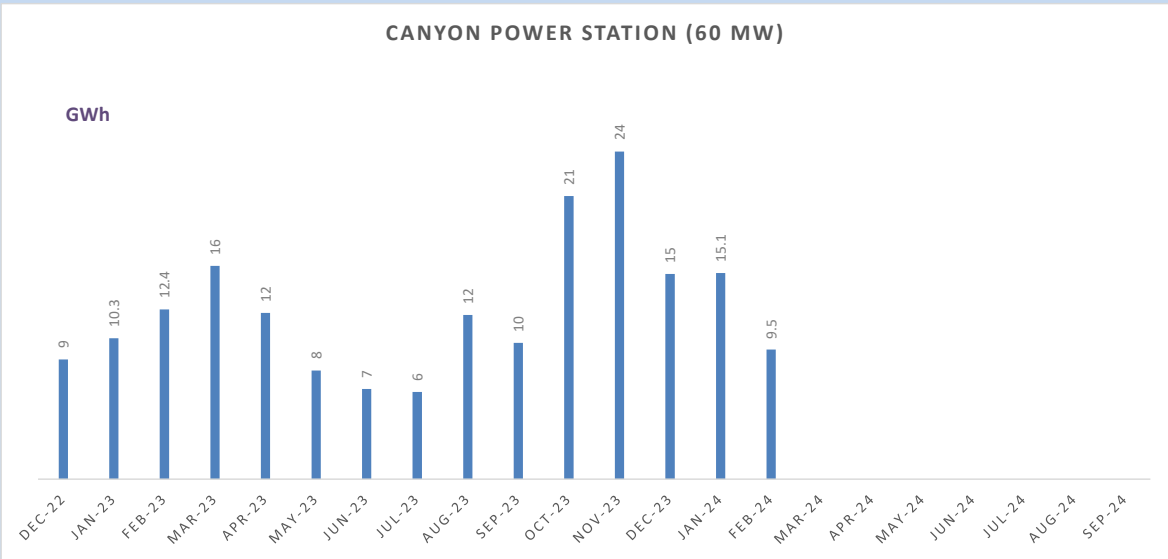
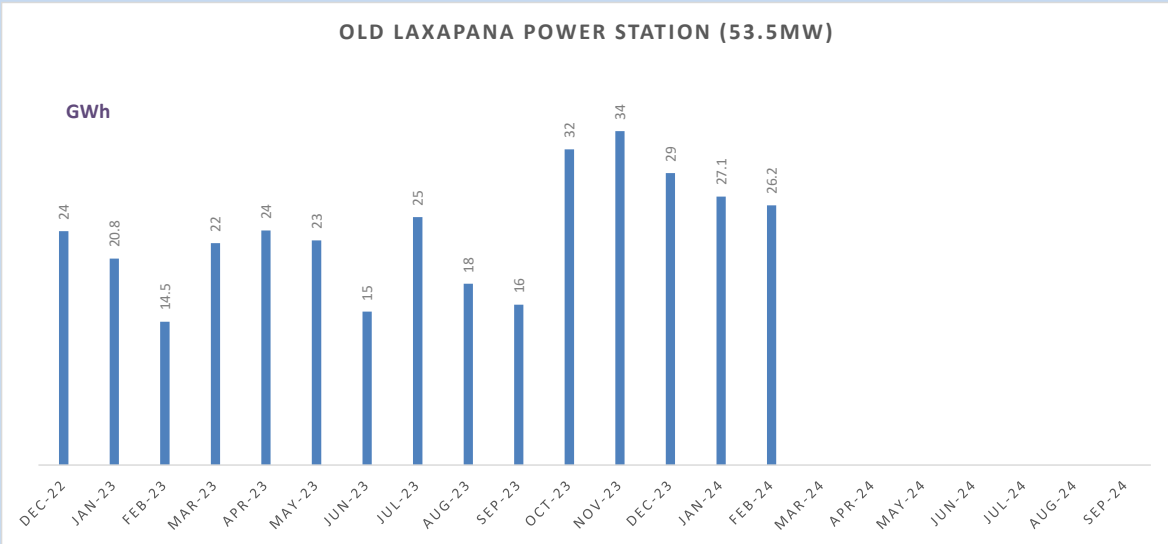
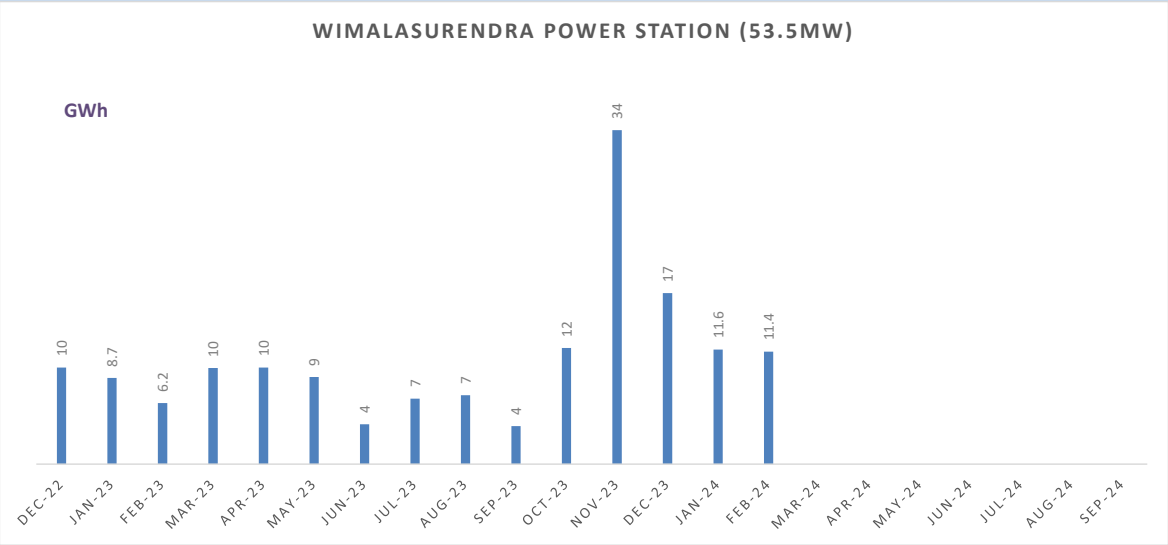
2.1 Dispatch from all Generation Major Plants in

February-24

Table 04

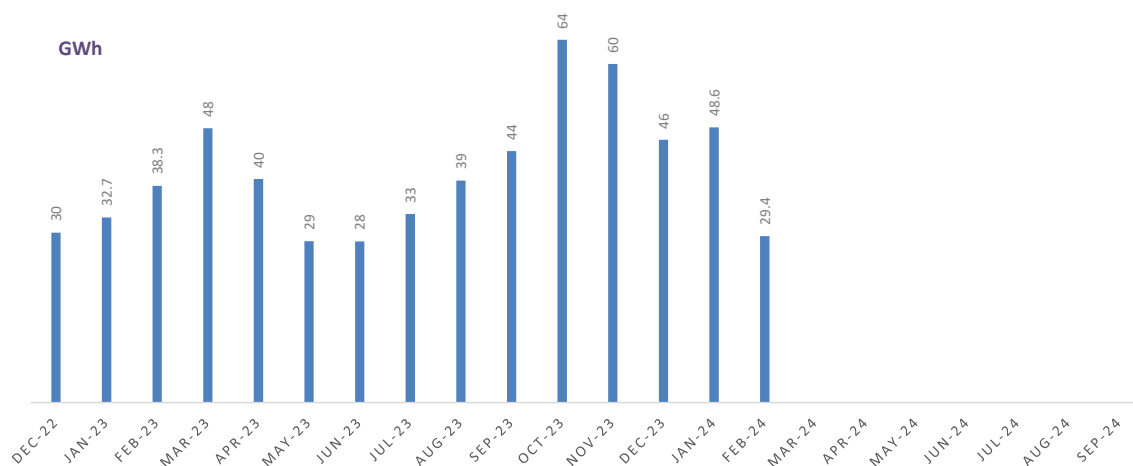
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	11,354	30.5%
Old Laxapana	54	26,220	65.3%
Canyon	60	9,499	21.3%
New Laxapana	100	29,430	39.6%
Polpitiya	90	29,610	44.2%
Broadlands	35	5,535	21.3%
Kotmale	201	19,300	12.9%
Victoria	210	41,236	26.4%
Randenigala	122	37,110	40.9%
Rantambe	50	19,441	52.3%
Ukuwela	40	12,979	43.6%
Bowatenna	40	3,454	11.6%
Upper Kotmale	150	17,661	15.8%
Nilambe	3	685	30.7%
Samanalawewa	120	24,064	27.0%
Kukule	75	14,018	25.1%
Inginiyagala	120	1,021	1.1%
Udawalawe	4	1,634	54.9%
Puttalam Coal I	270	184,743	92.0%
Puttalam Coal II	270	185,021	92.1%
Puttalam Coal III	270	186,385	92.8%
KPS Small GTs	64	0	0.0%
KPS GT 7	115	0	0.0%
KCCP	165	4,930	4.0%
Sapugaskanda A	64	27,634	58.0%
Sapugaskanda B	72	31,307	58.4%
Uthura Janani	24	8,630	48.3%
Barge CEB	60	28,633	64.1%
CEB - Hambantota	24	2	0.0%
CEB - Mathugama	16	0	0.0%
KCCPS -2	163	0	0.0%
ACE Matara	24	1,891	10.9%
West Coast	270	103,619	51.6%
ACE Embilipitiya	93	17538	25.3%

2.3 Generation of Major Power Plants From Last Year



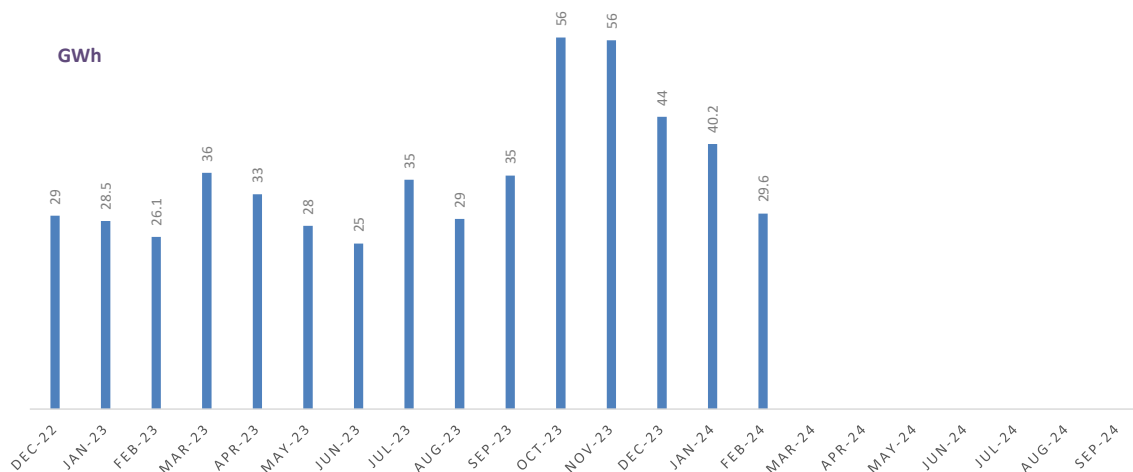
NEW LAXAPANA POWER STATION (115 MW)

GWh



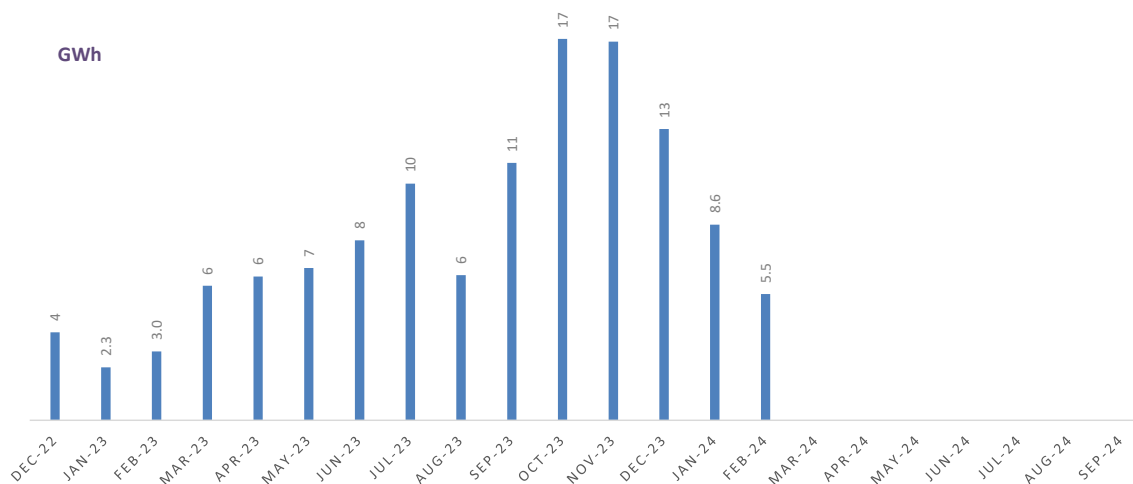
POLPITIYA POWER STATION (90 MW)

GWh



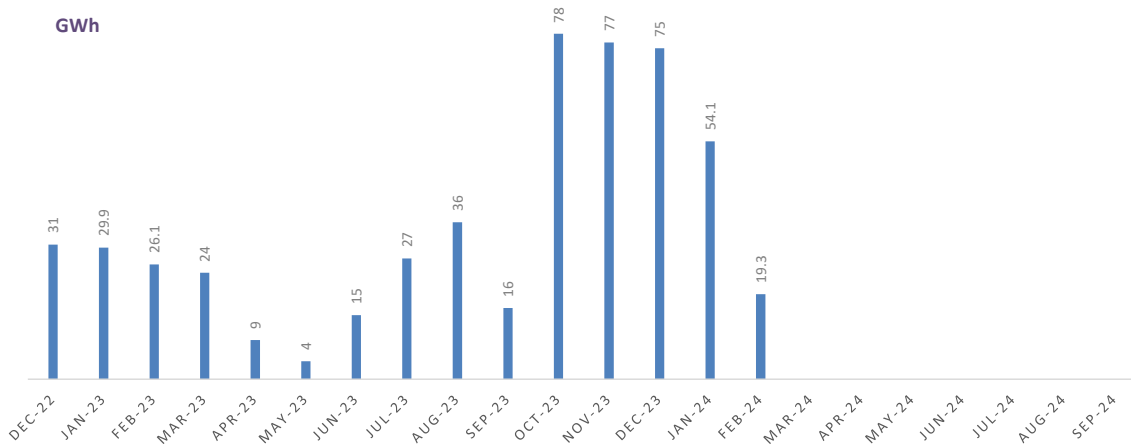
BROADLANDS POWER STATION (35 MW)

GWh



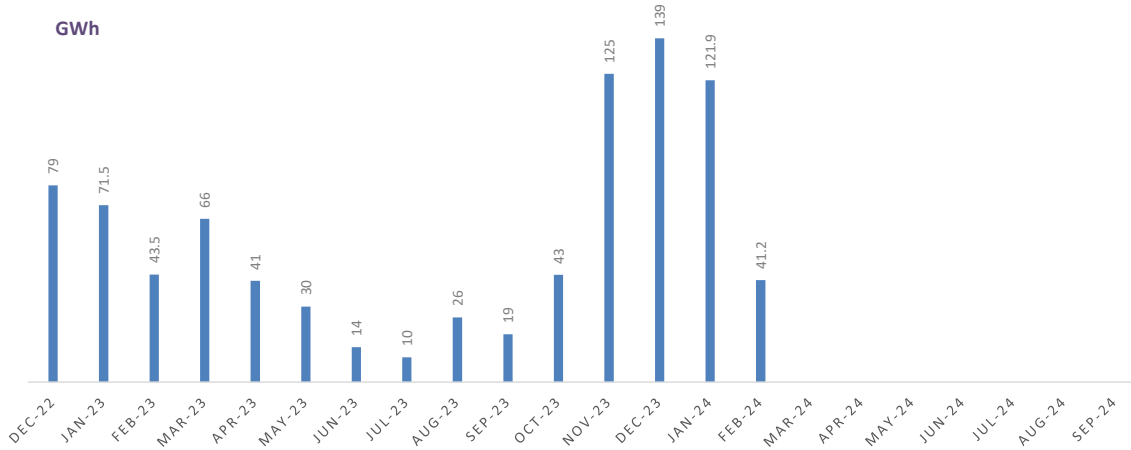
KOTMALE POWER STATION (201 MW)

GWh



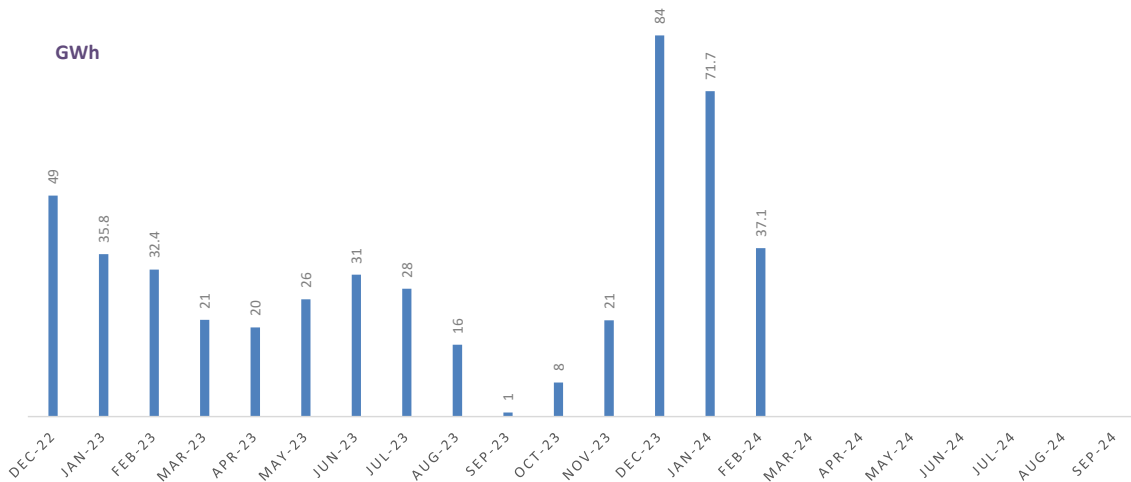
VICTORIA POWER STATION (225 MW)

GWh



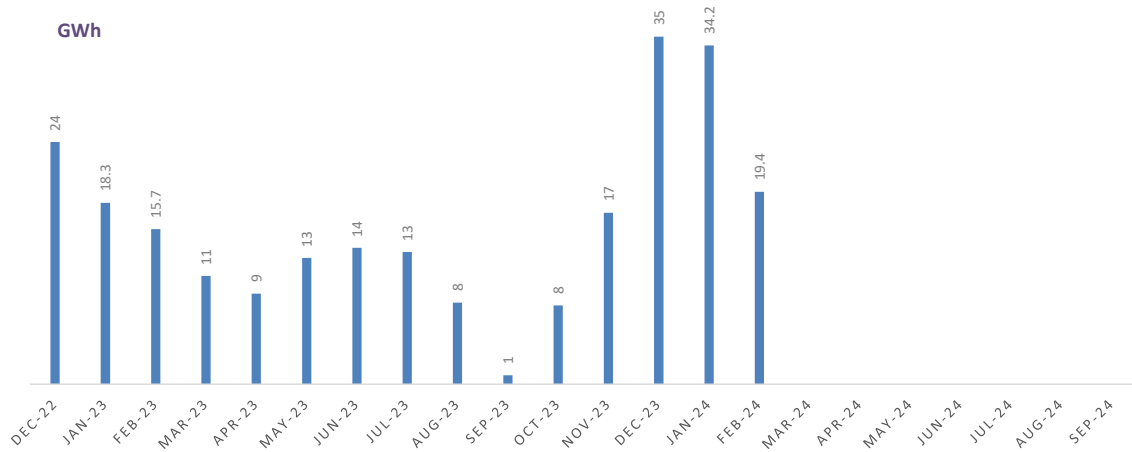
RANDENIGALA POWER STATION (114 MW)

GWh



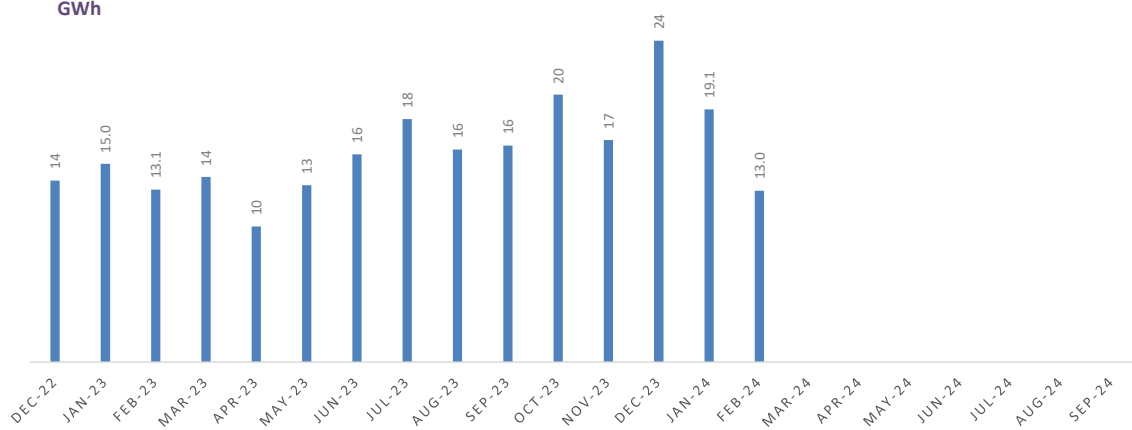
RANTAMBE POWER STATION (50 MW)

GWh



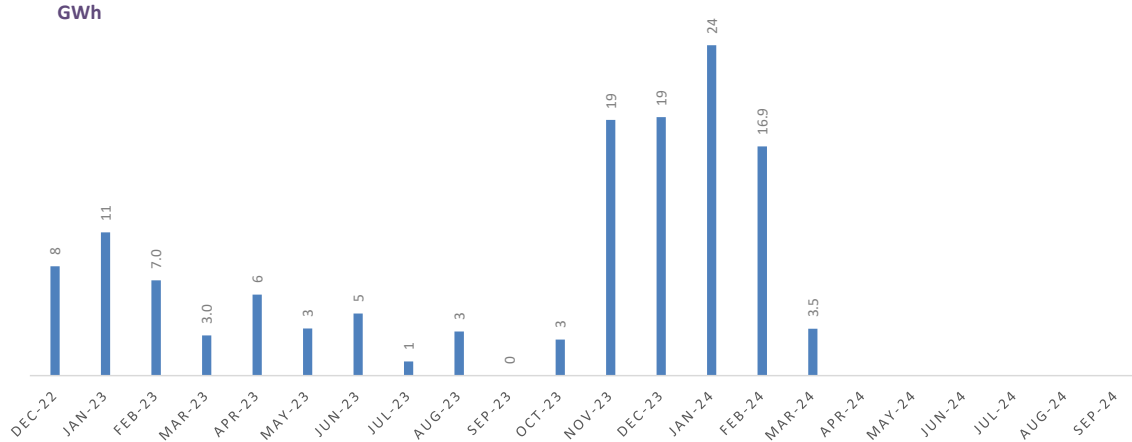
UKUWELA POWER STATION (37 MW)

GWh



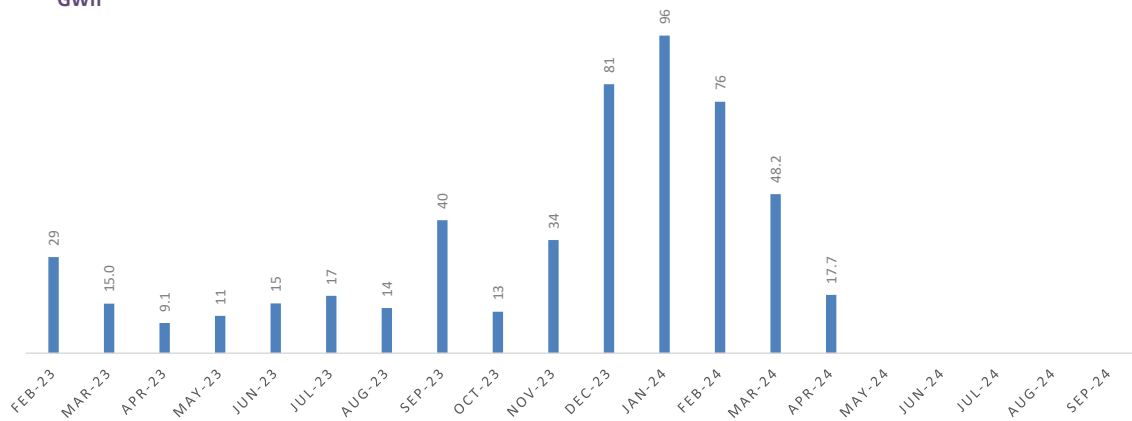
BOWATHENNA POWER STATION (40 MW)

GWh



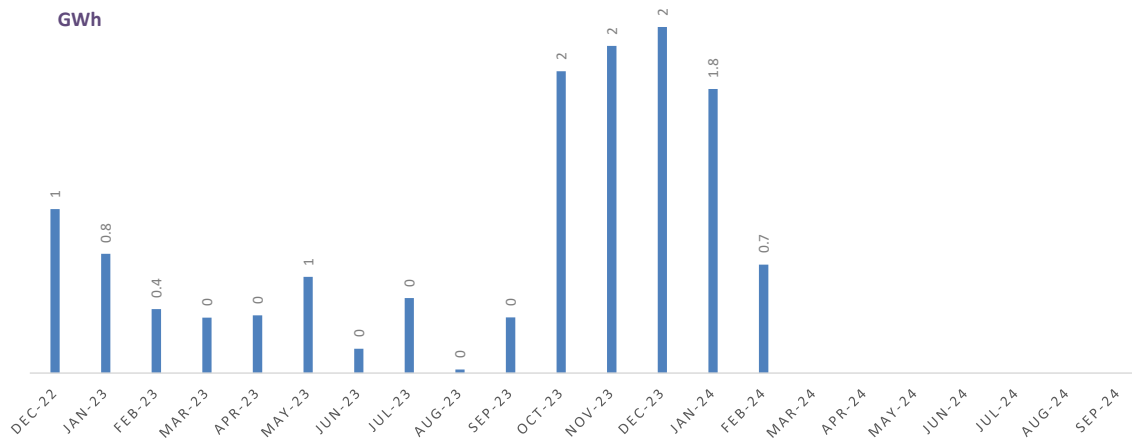
UPPER KOTMALE POWER STATION (150 MW)

GWh



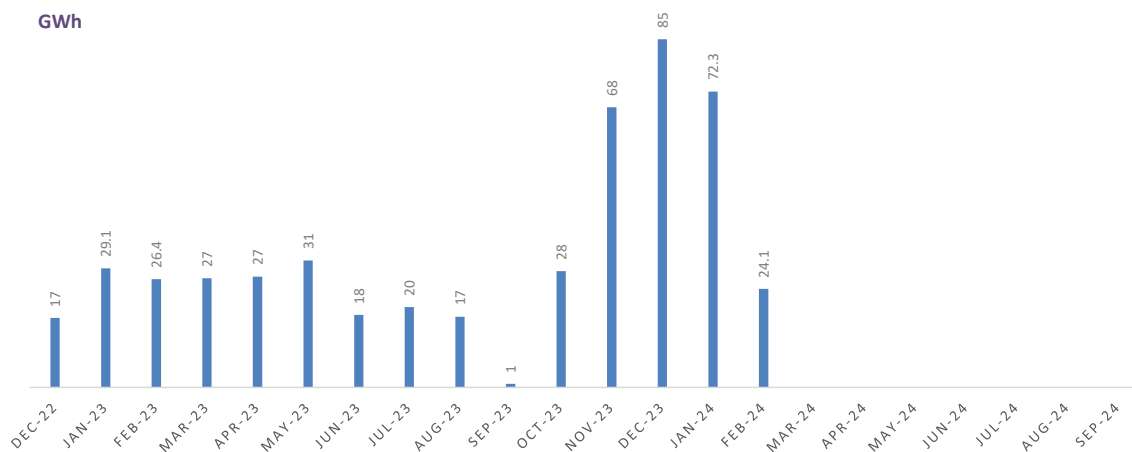
NILLAMBE POWER STATION (3 MW)

GWh



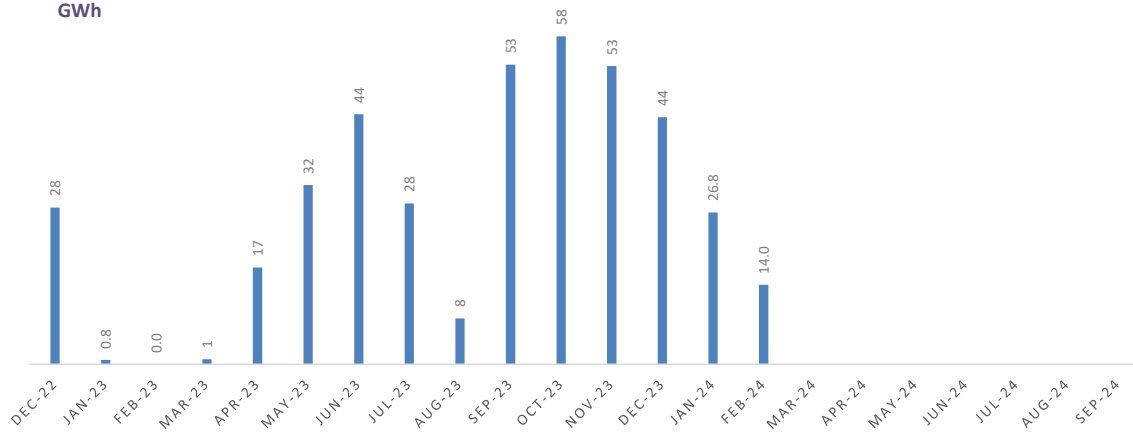
SAMANALAWEWA POWER STATION (120 MW)

GWh



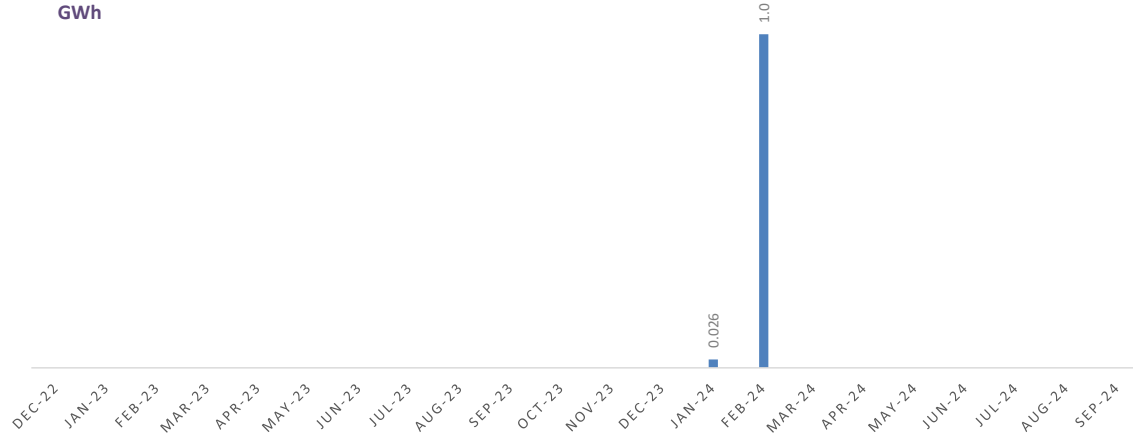
KUKULE POWER STATION (75 MW)

GWh



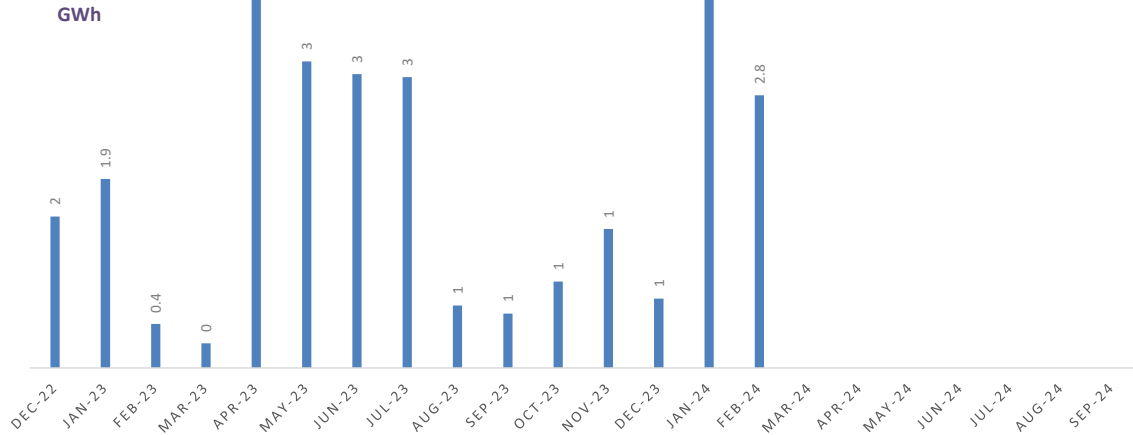
UMA OYA POWER STATION (150 MW)

GWh



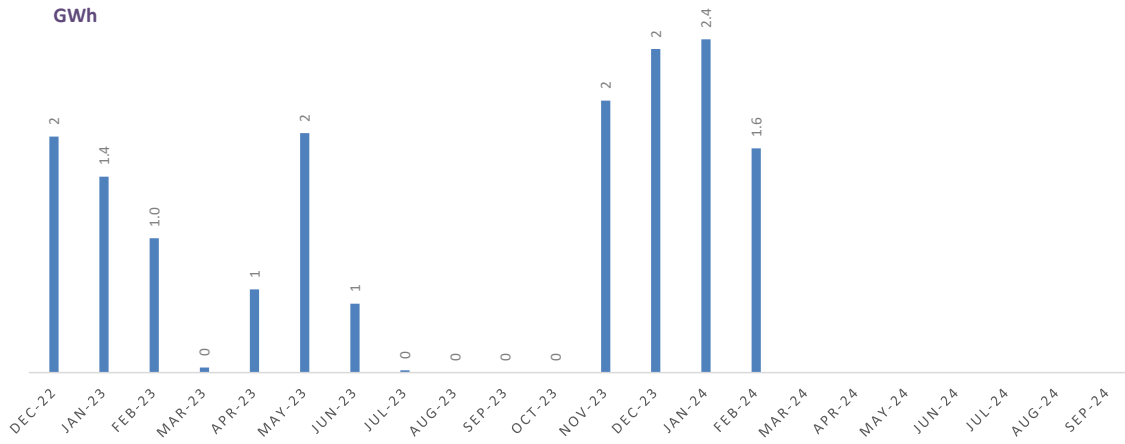
INGINIYAGALA POWER STATION (11 MW)

GWh



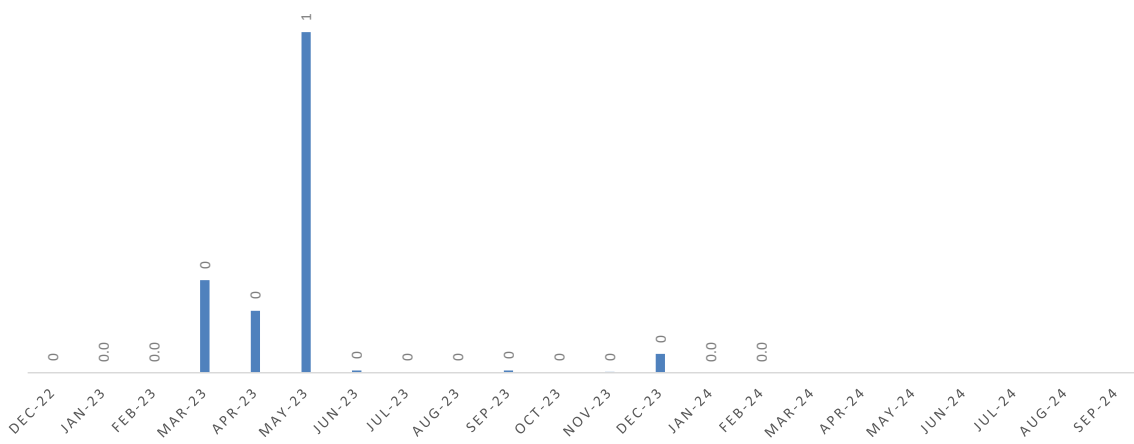
UDAWALAWE POWER STATION (6 MW)

GWh



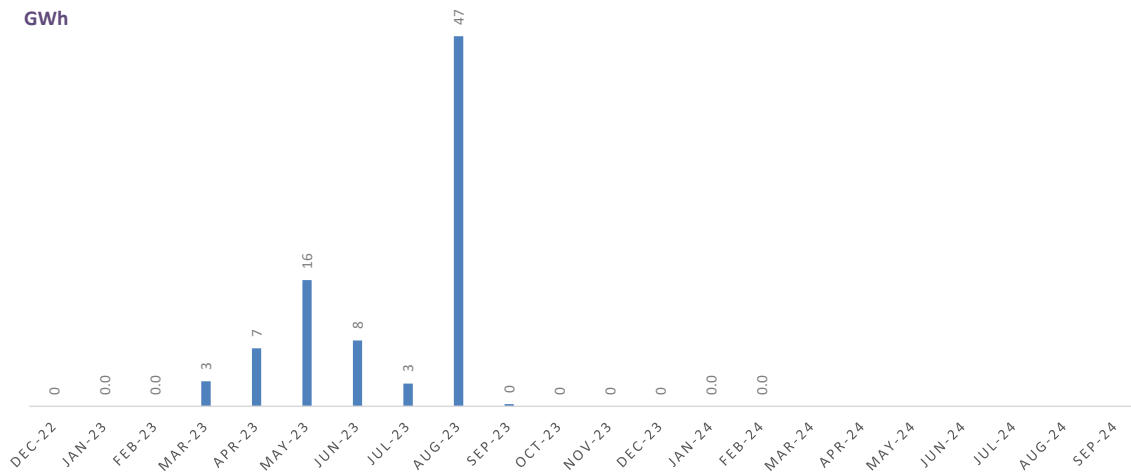
KELANITISSA SMALL GAS TURBINES (4 × 16 MW)

GWh



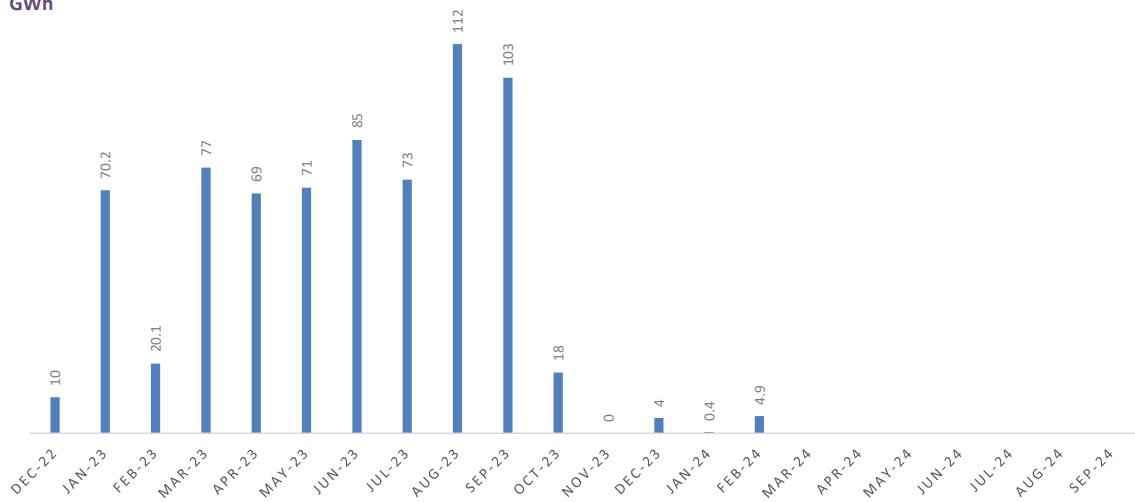
KELANITISSA GT 7 (115 MW)

GWh



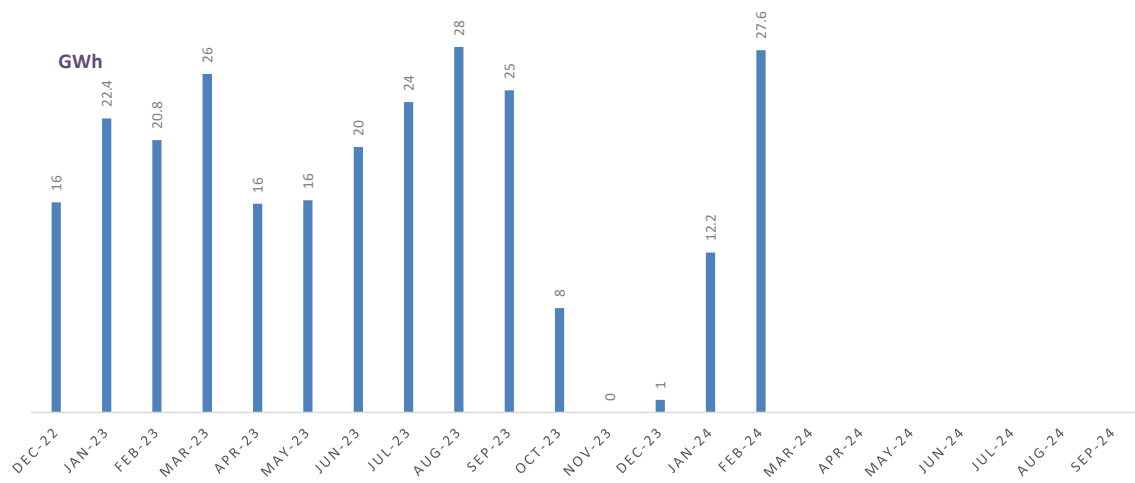
GWh

KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)



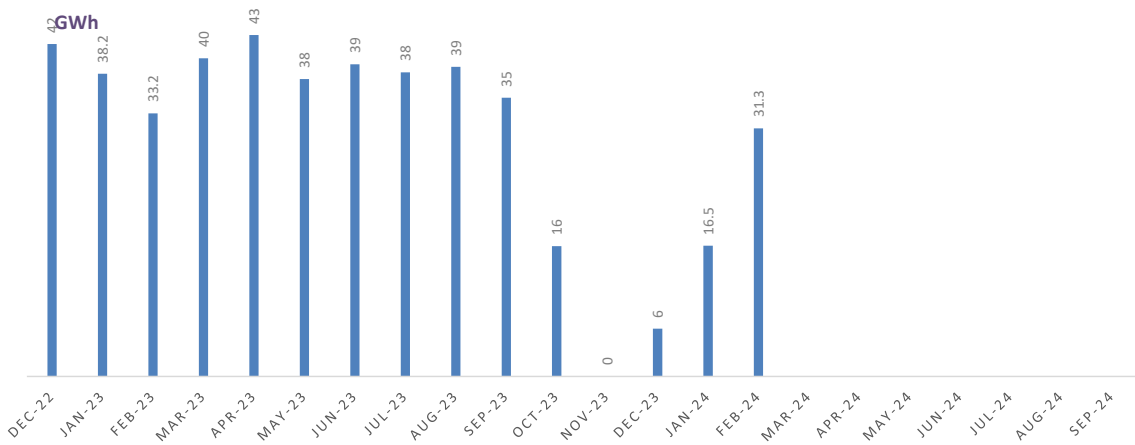
SAPUGASKANDA - A POWER STATION (80 MW)

GWh



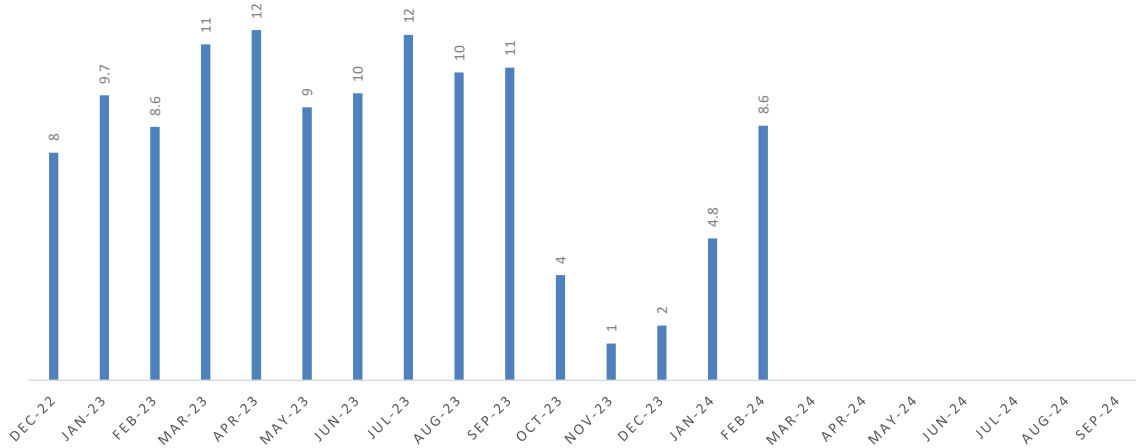
SAPUGASKANDA - B POWER STATION (80 MW)

GWh



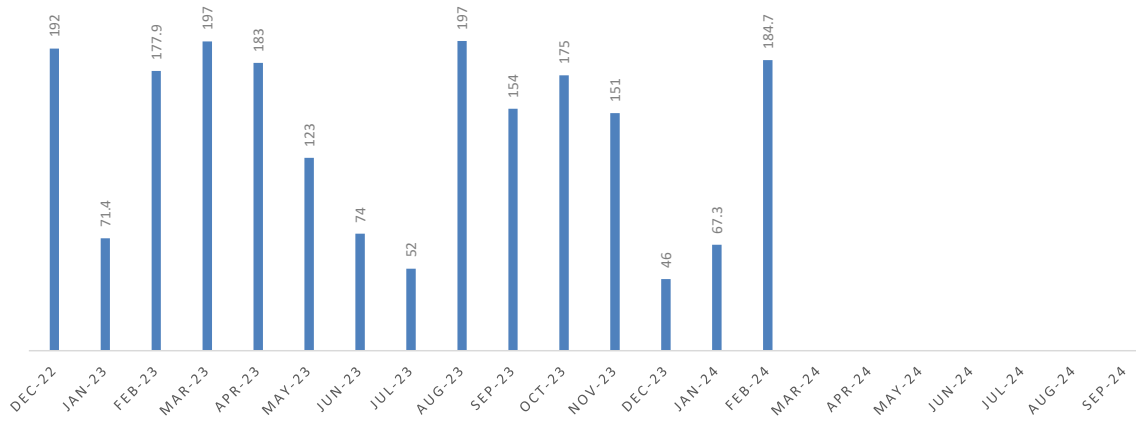
GWh

UTHURU JANANEE POWER STATION (24 MW)



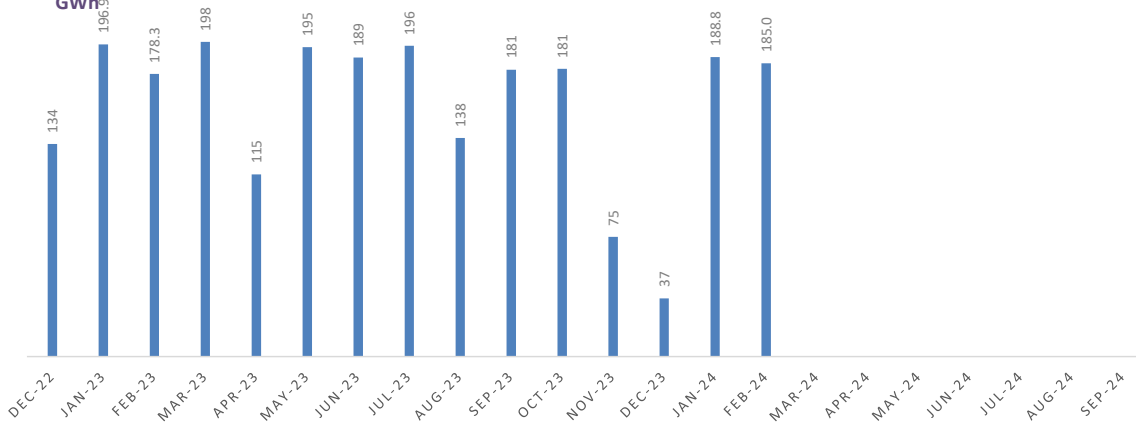
GWh

LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)

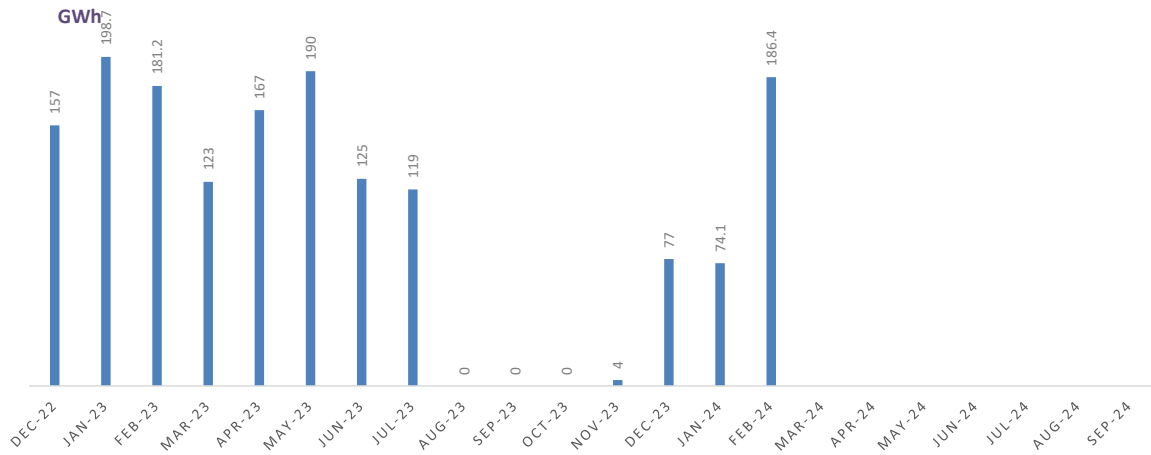


GWh

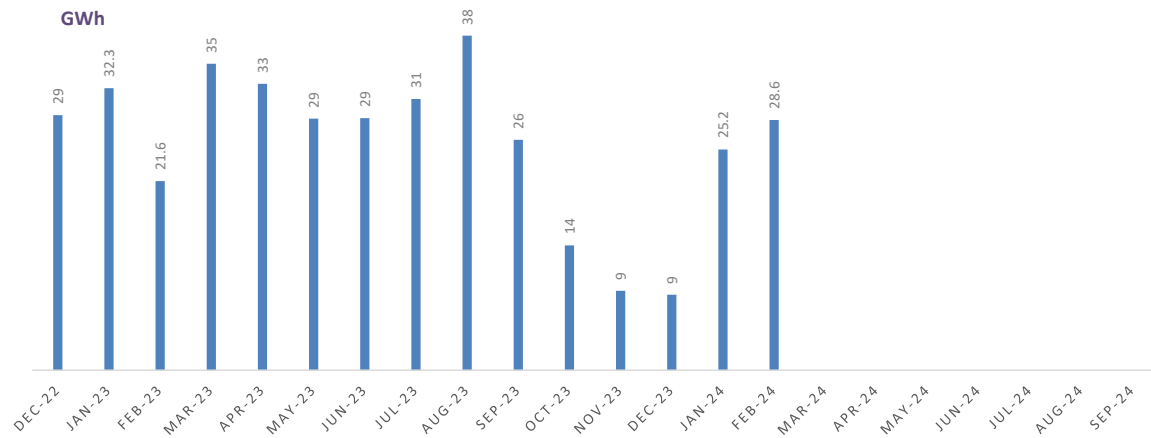
LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)



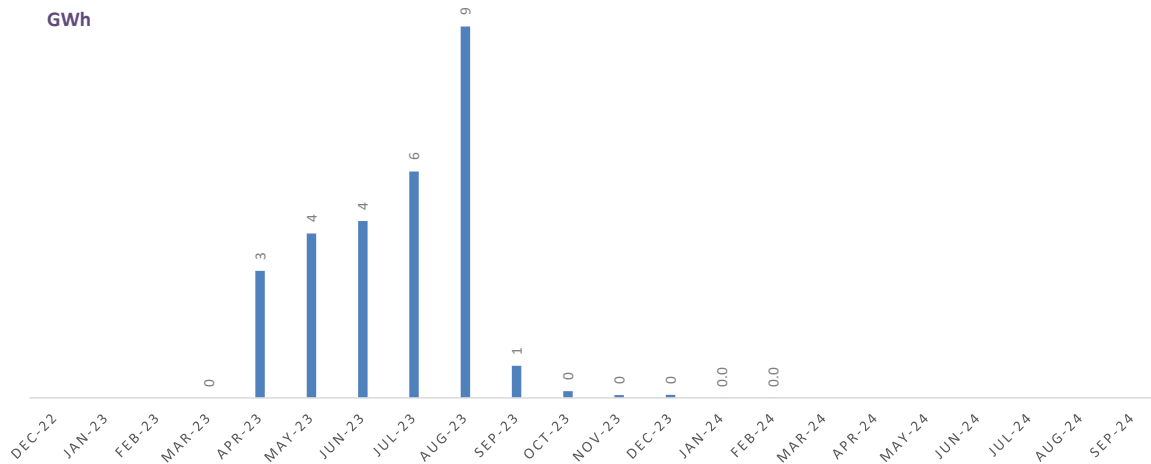
LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



BARGE POWER STATION - CEB (60 MW)

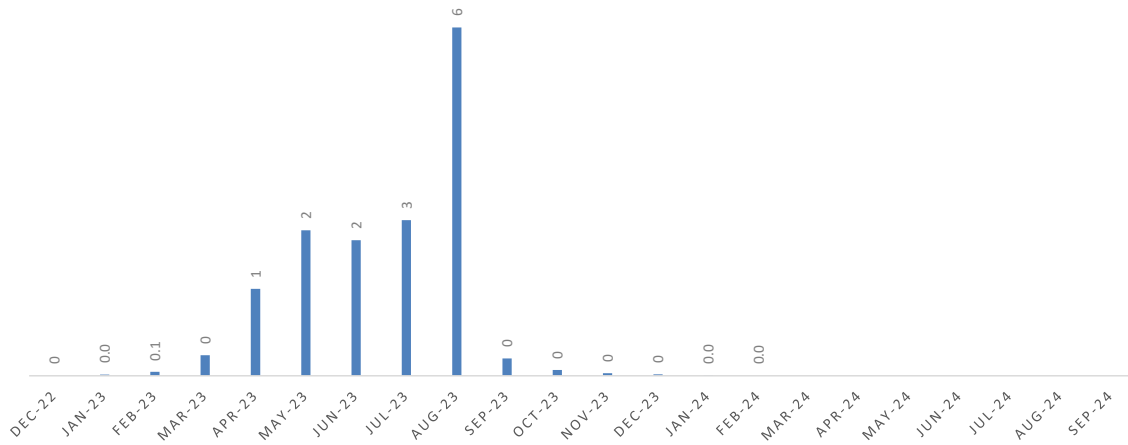


HAMBANTOTA - CEB (24 MW)



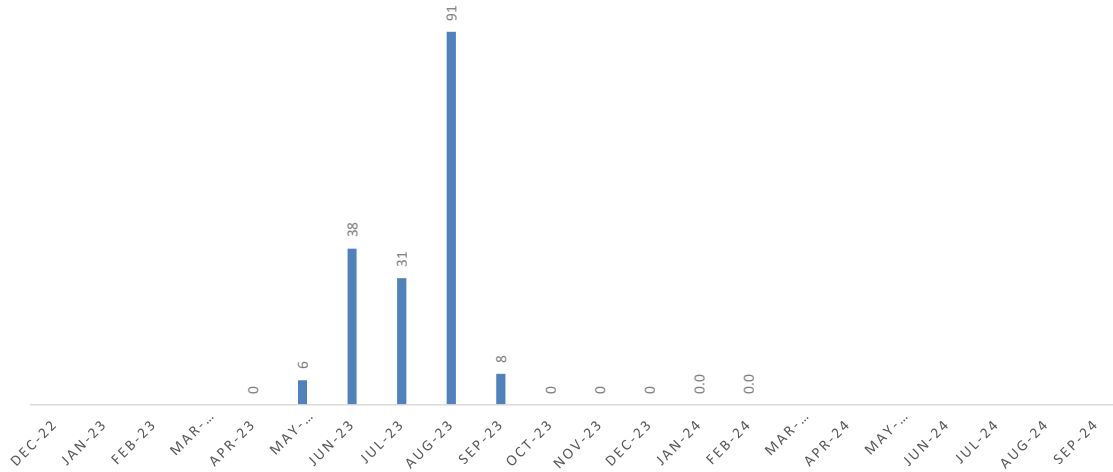
MATHUGAMA - CEB (16 MW)

GWh



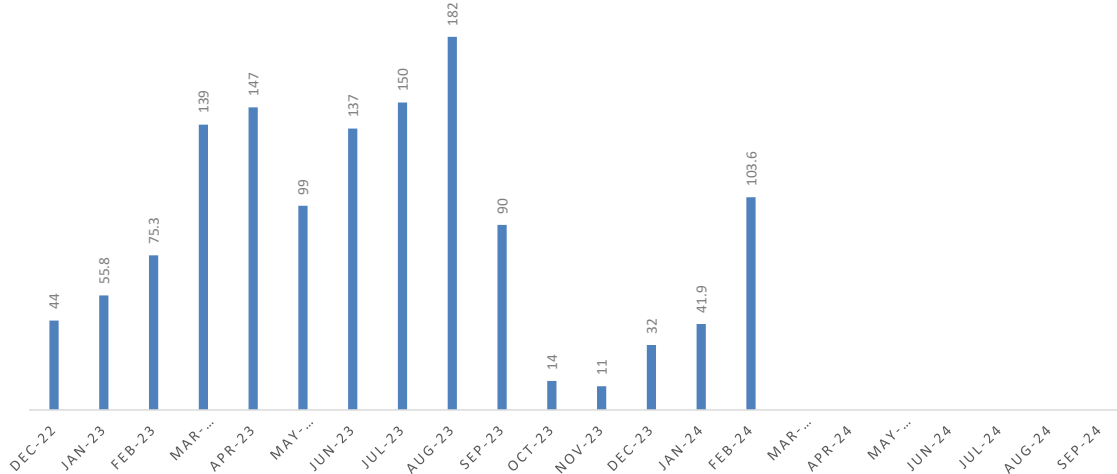
KCCPS - 02 POWER STATION (163 MW)

GWh



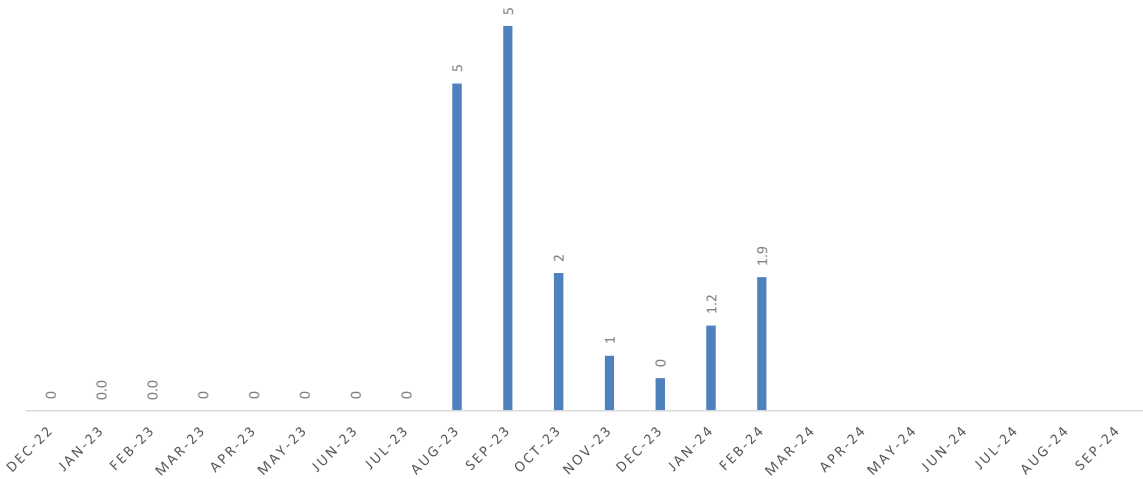
WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)

GWh



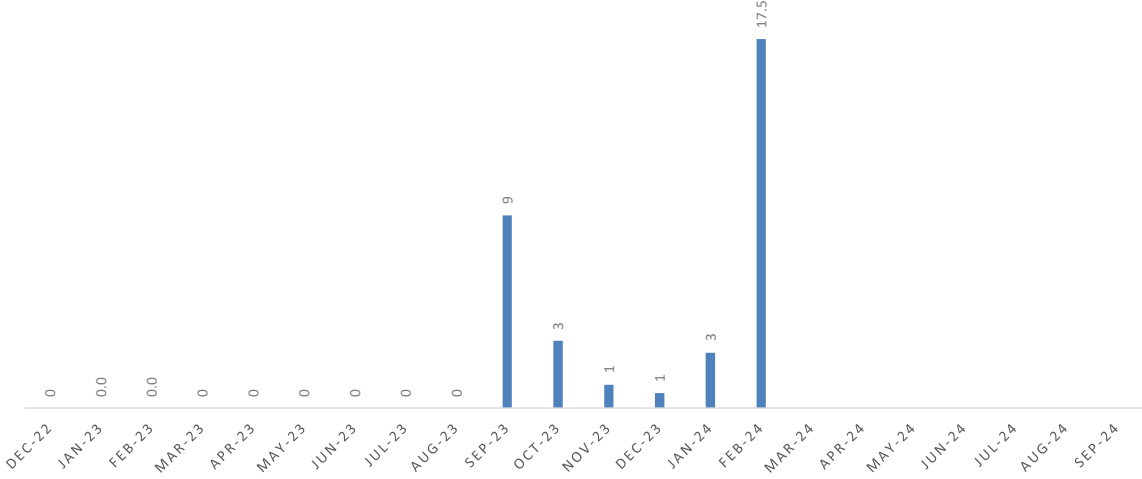
ACE - MATARA (24 MW)

GWh



ACE - EMBILIPITIYA (93 MW)

GWh



3 Peak Demand

During the month;

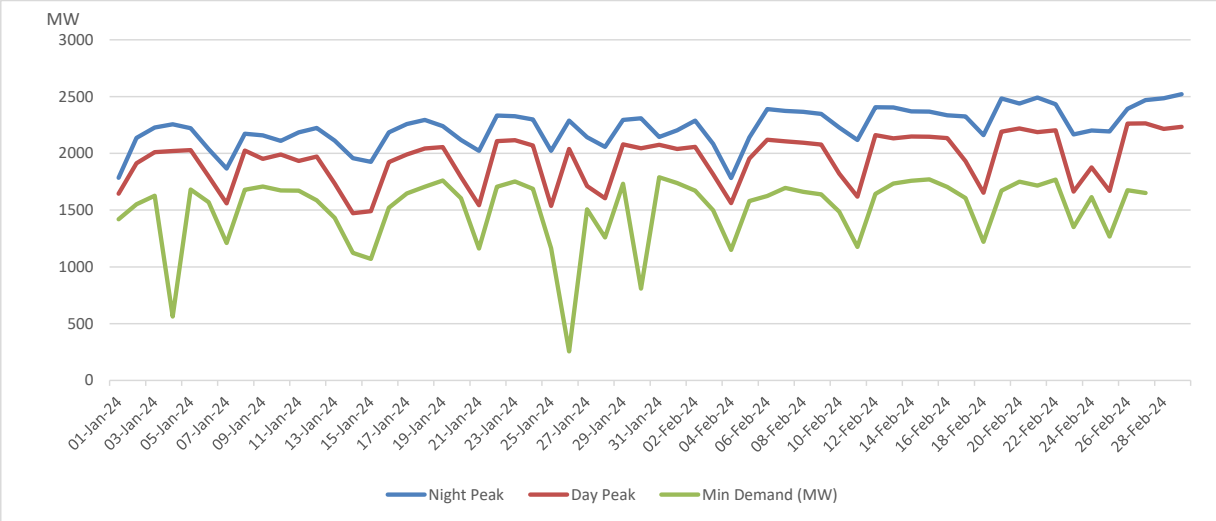
Table 05

Highest Peak Demand	2,521	MW
Lowest Peak Demand	1,783	MW
Highest Day Peak Demand	2,264	MW
Minimum Demand	1,150	MW

on 29-Feb
on 04-Feb
on 27-Feb
on 04-Feb

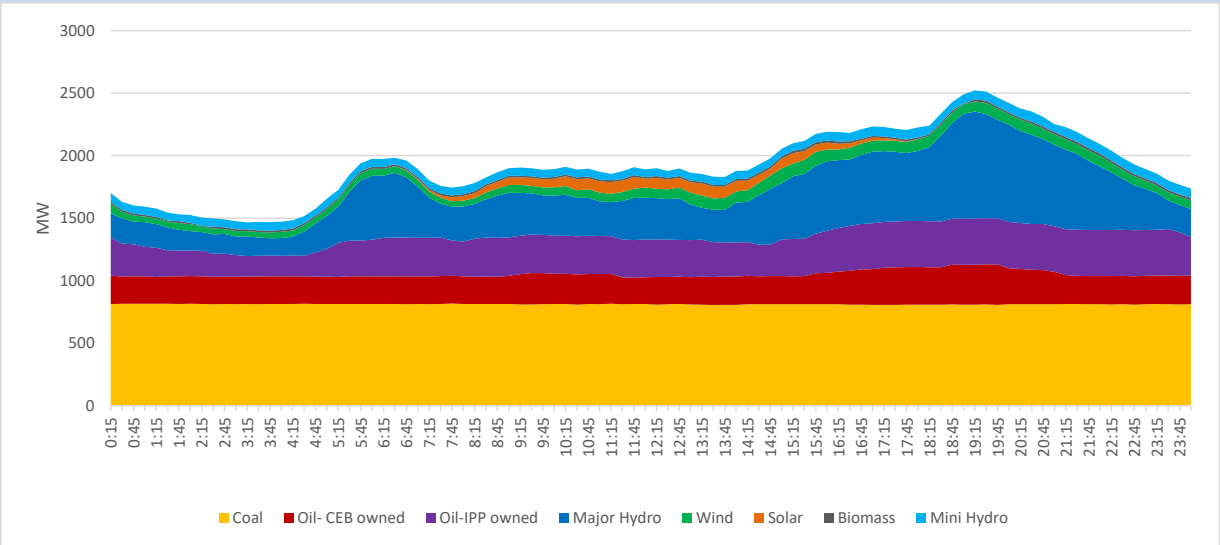
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

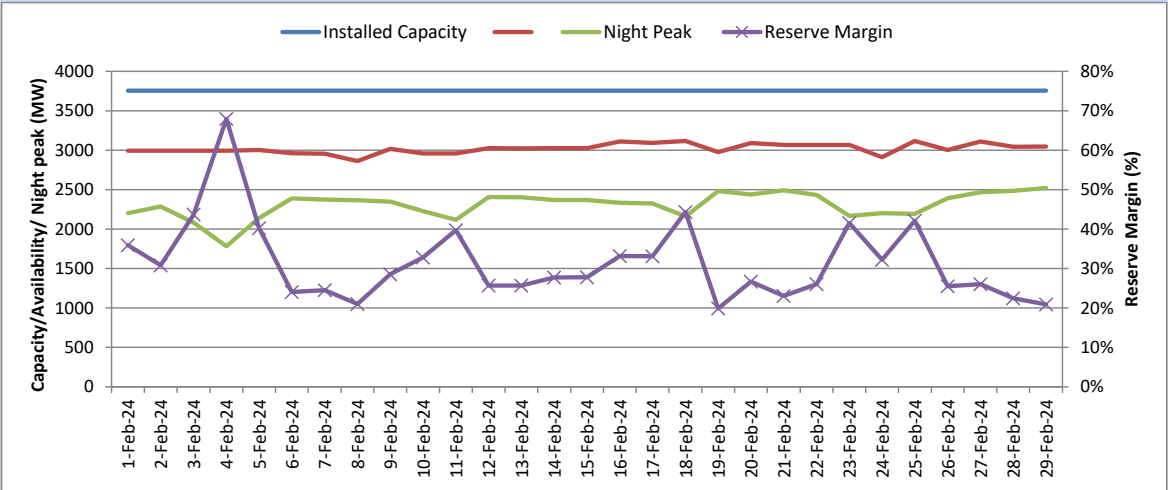


3.2 Load Curve of the Day with Highest Night Peak ,

29-Feb



3.3 Variation of Reserve Margin During Night Peak



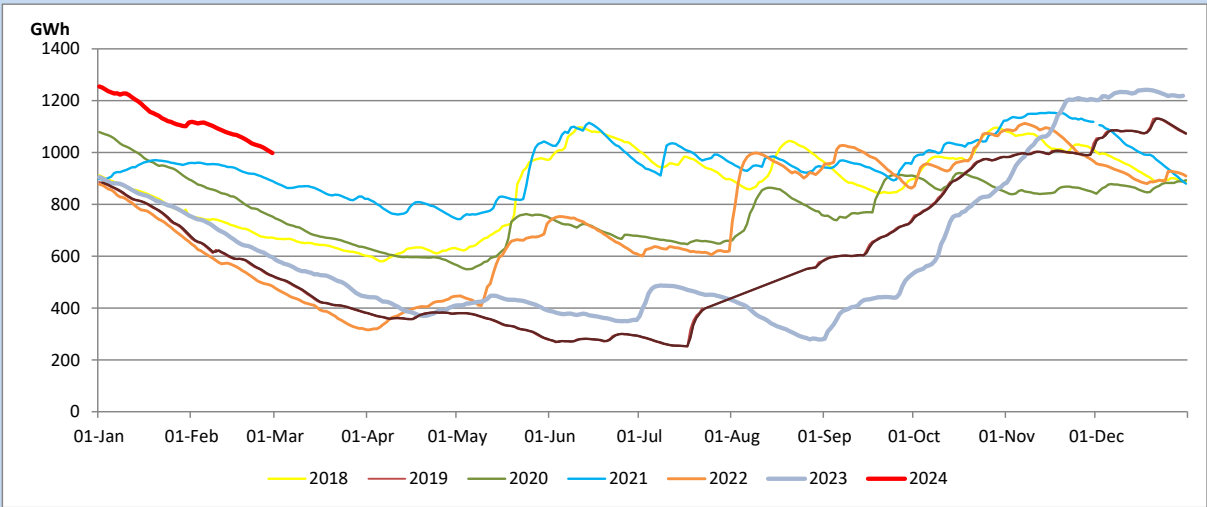
Note:Contribution from NCRE plants is not included

4 Reservoir Statistics

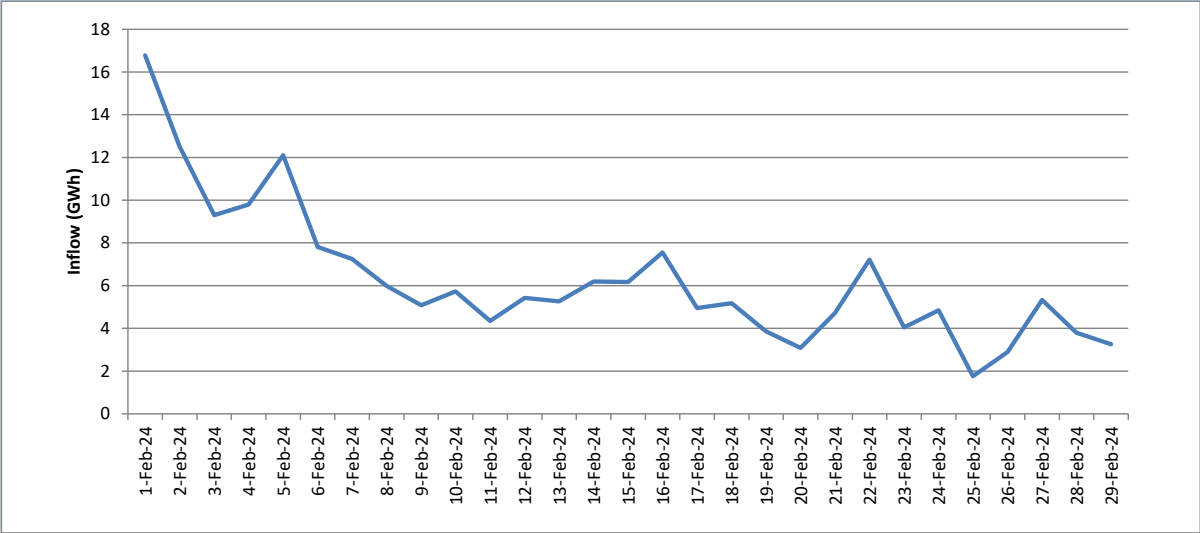
Table 05

Total Reservoir level at the beginning of the month	1116.1 GWh
Total Reservoir level at the end of the month	991.8 GWh
Total Inflow	182.3 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

