

Monthly Generation Report

September-23



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

September-23

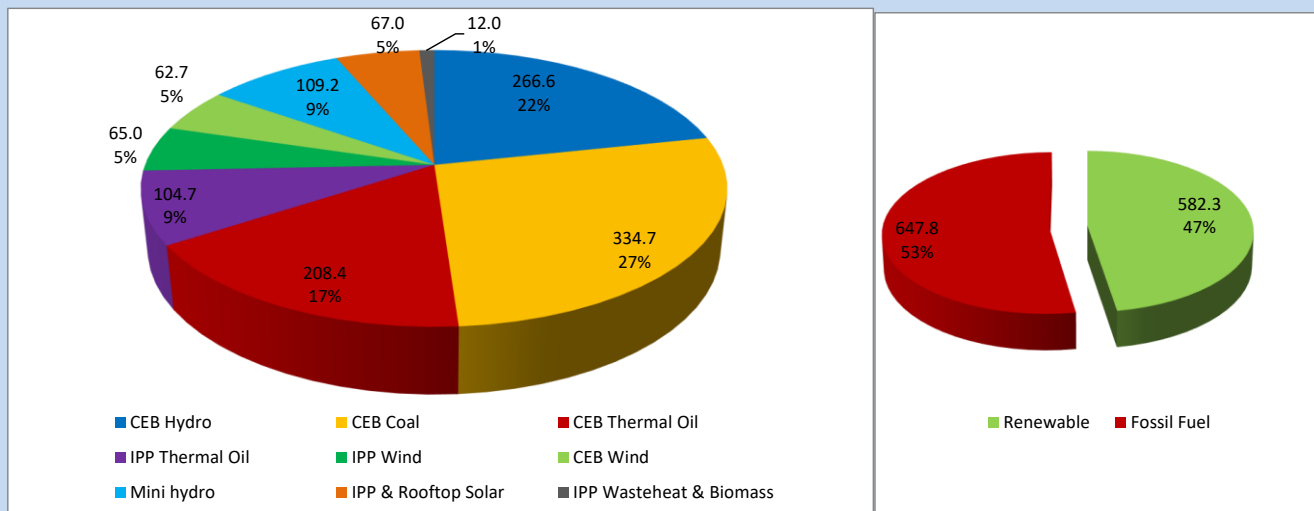


Table 01

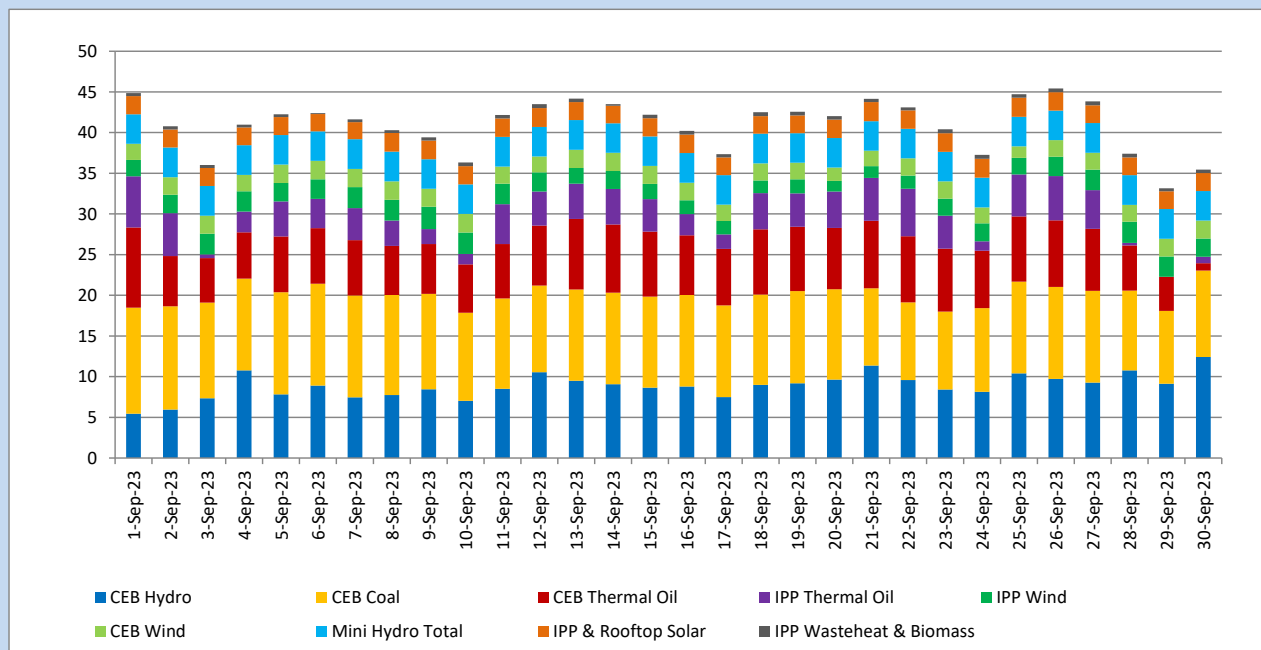
CEB Hydro	267	GWh
CEB Coal	335	GWh
CEB Thermal Oil	208	GWh
IPP Thermal Oil	105	GWh
IPP Wind	65	GWh
CEB Wind	63	GWh
Mini Hydro (Including non telemetered)	109	GWh
IPP Solar (Including estimated figures)	67	GWh
IPP Wasteheat + Biomass	12	GWh
Total Generation (Including estimated figures)	1,230	GWh

Total Generation = 1,230 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

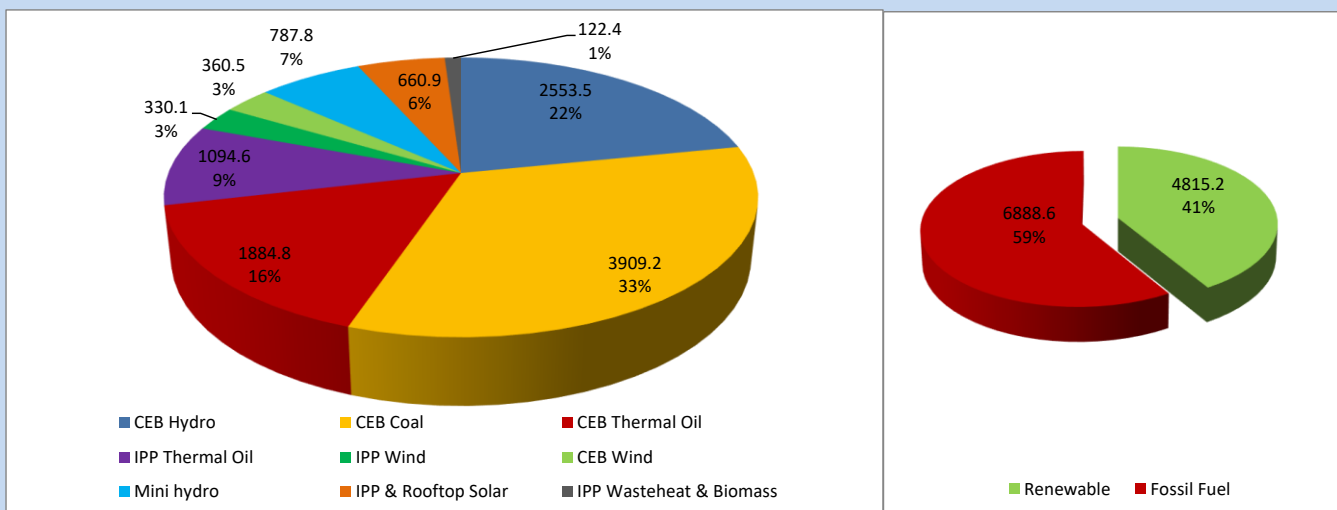


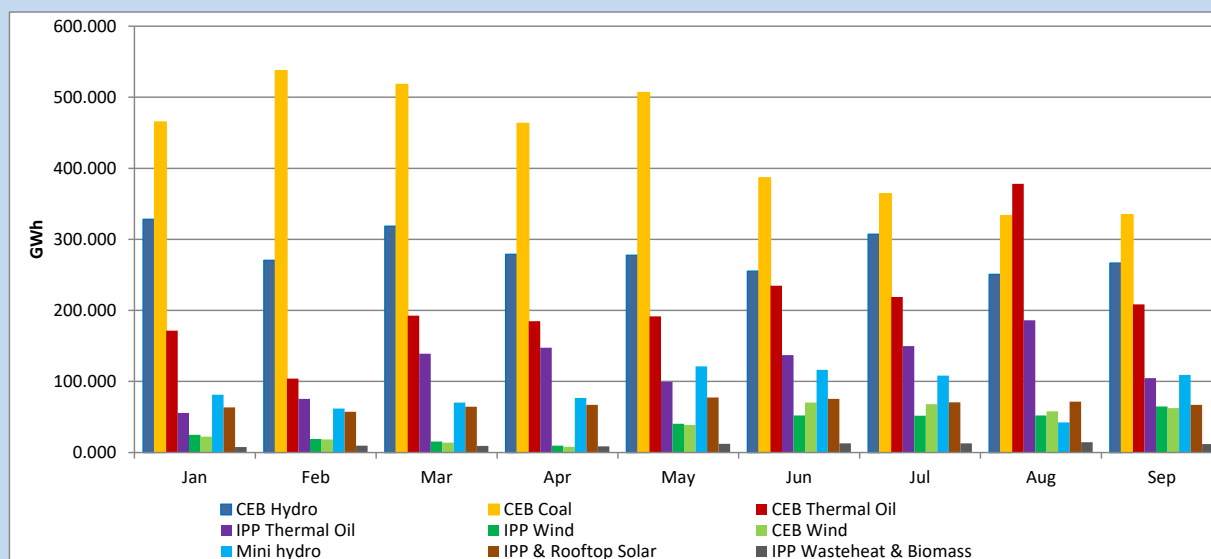
Table 02

CEB Hydro	2553.52	GWh
CEB Coal	3909.19	GWh
CEB Thermal Oil	1884.82	GWh
IPP Thermal Oil	1094.56	GWh
IPP Wind	330.11	GWh
CEB Wind	360.45	GWh
Mini Hydro (Including non telemetered)	787.79	GWh
IPP Solar (Including estimated figures)	660.87	GWh
IPP Wasteheat + Biomass	122.42	GWh
Total Generation (Including estimated figures)	11703.73	GWh

Table 03

	Installed Capacity (MW)
CEB Hydro	1409
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	50
IPP Solar	136
Rooftop Solar* (Ordinary)	277
Rooftop Solar* (LT Bulk)	263
Rooftop Solar* (HT Bulk)	70

1.4 Variation of Monthly Generation Mix during the year



2 Major Plant Dispatch

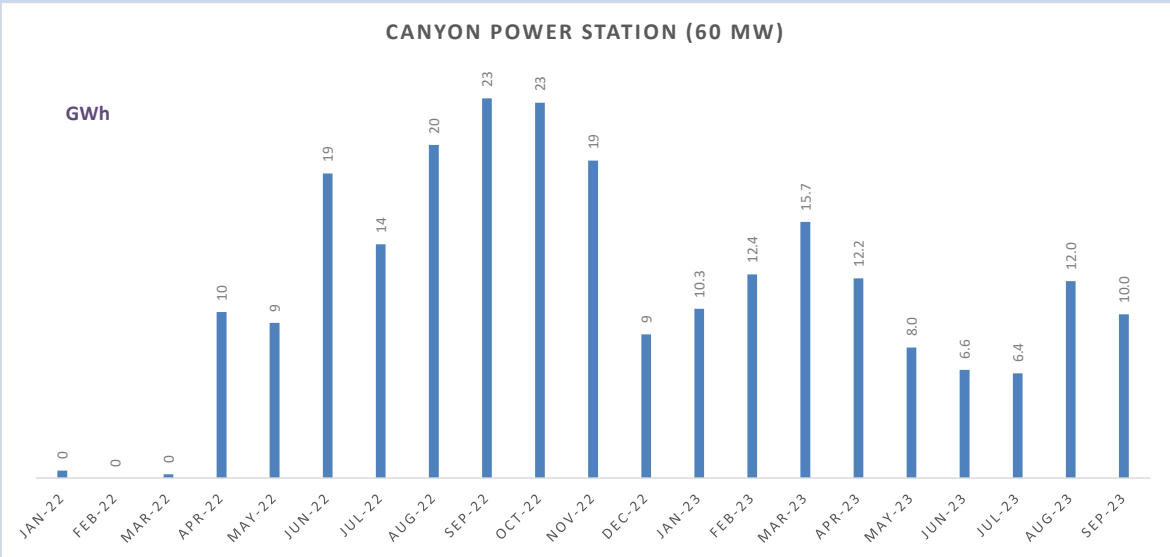
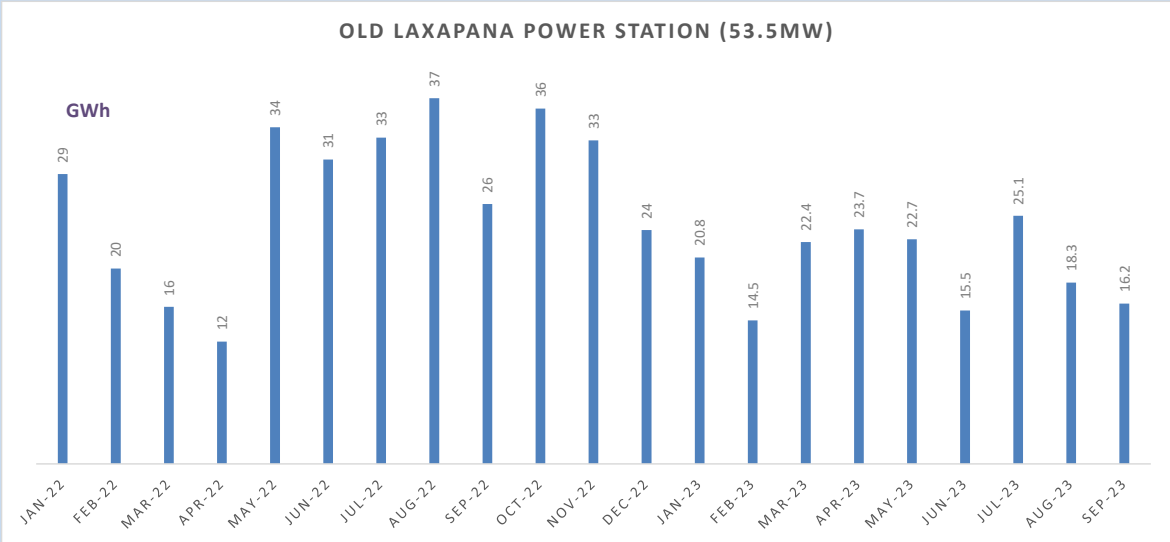
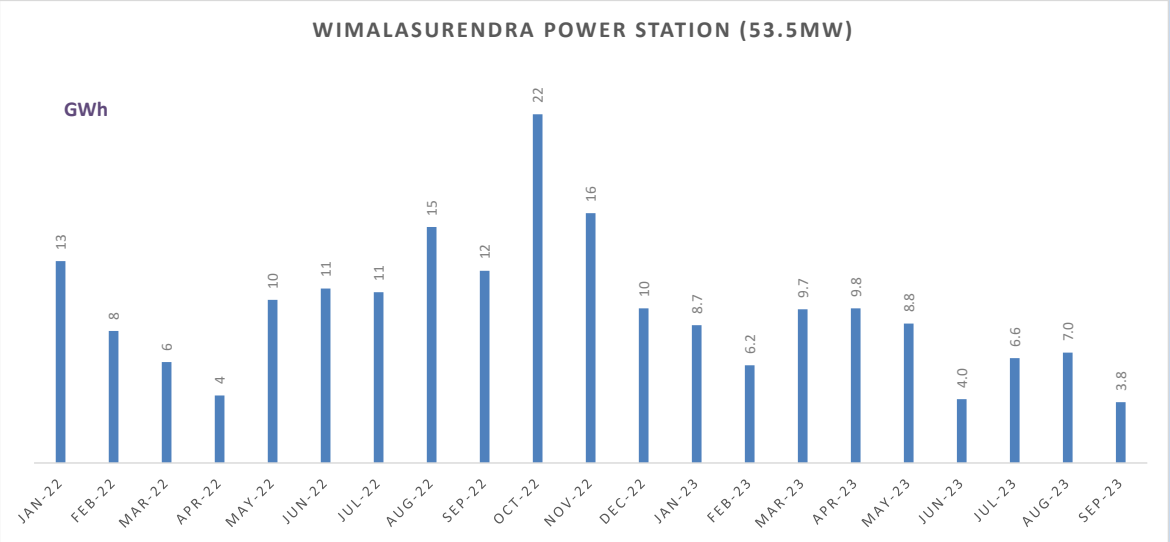
2.1 Dispatch from all Generation Major Plants in

September-23

Table 04

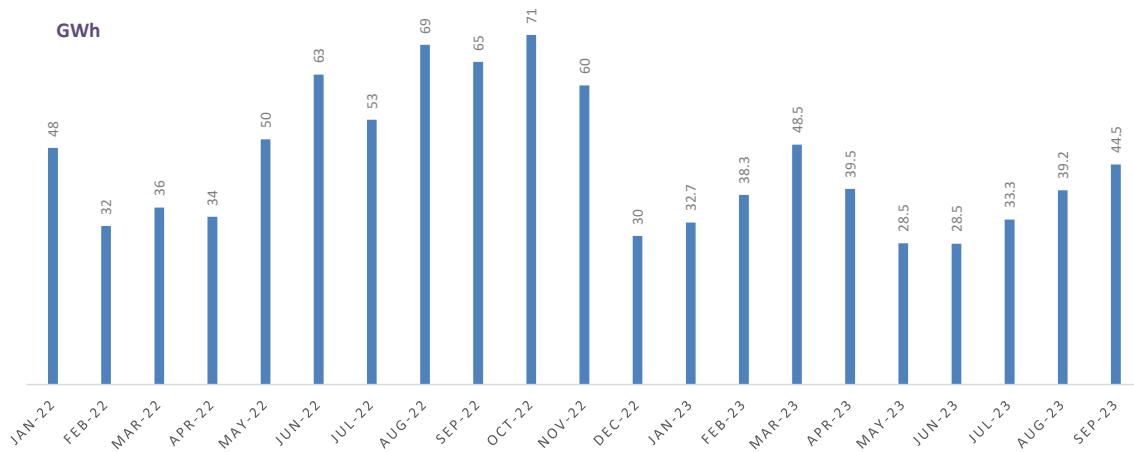
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	3,845	10.7%
Old Laxapana	54	16,204	41.7%
Canyon	60	9,999	23.1%
New Laxapana	100	44,466	61.8%
Polpitiya	90	35,370	54.6%
Broadlands	35	11,286	44.8%
Kotmale	201	16,180	11.2%
Victoria	210	19,308	12.8%
Randenigala	122	908	1.0%
Rantambe	50	913	2.5%
Ukuwela	40	16,394	56.9%
Bowatenna	40	2,649	9.2%
Upper Kotmale	150	34,307	31.8%
Nilambe	3	352	16.3%
Samanalawewa	120	885	1.0%
Kukule	75	52,951	98.1%
Inginiyagala	8.8	549	8.7%
Udawalawe	4	0	0.0%
Puttalam Coal I	270	153,769	79.1%
Puttalam Coal II	270	180,940	93.1%
Puttalam Coal III	270	0	0.0%
KPS Small GTs	64	6	0.0%
KPS GT 7	115	280	0.3%
KCCP	161	102,658	88.6%
Sapugaskanda A	70	24,570	48.8%
Sapugaskanda B	70	35,188	69.8%
Uthura Janani	26	10,598	56.6%
Barge CEB	60	26,358	61.0%
CEB - Hambantota	30	808	3.7%
CEB - Mathugama	20	290	2.0%
KCCPS -2	163	7,616	6.5%
ACE Matara	24	5,445	31.5%
West Coast	270	90,101	46.3%

2.3 Generation of Major Power Plants From Last Year



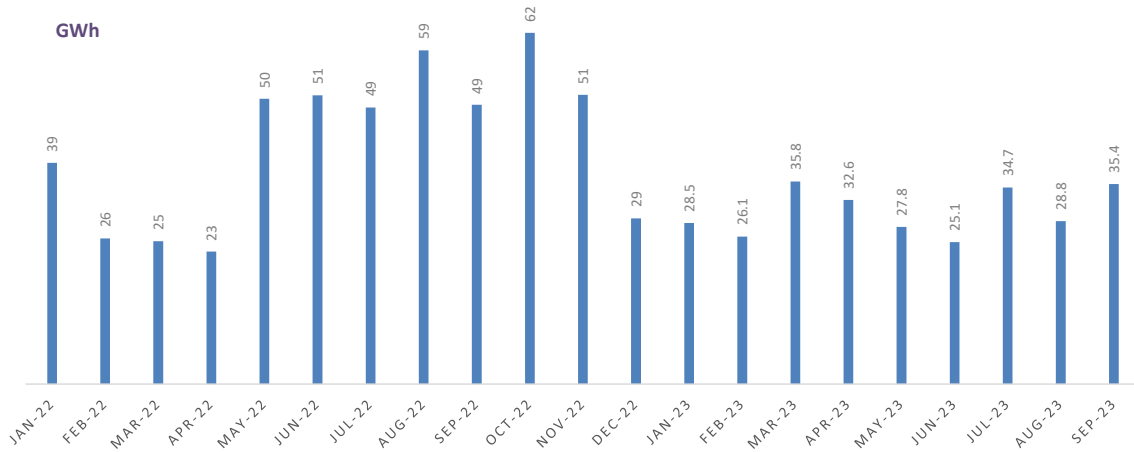
NEW LAXAPANA POWER STATION (115 MW)

GWh



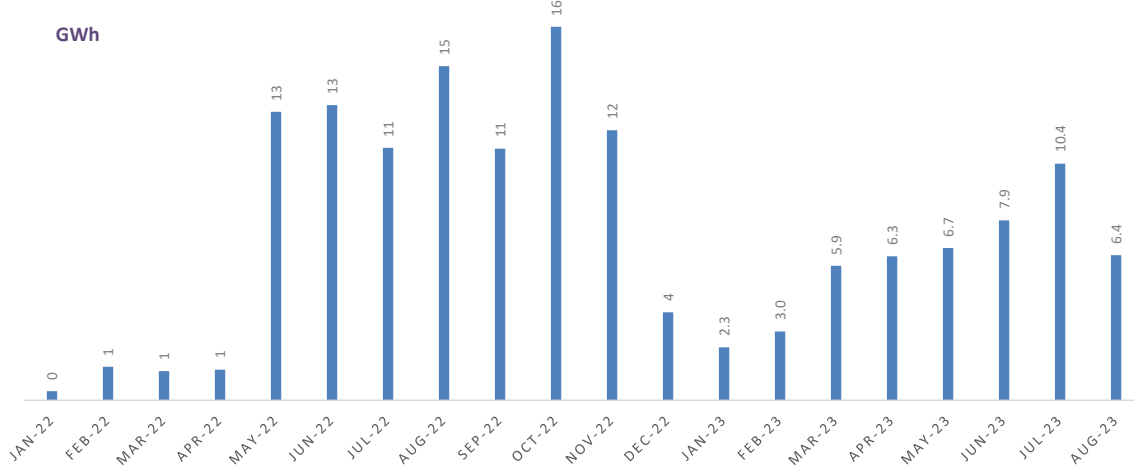
POLPITIYA POWER STATION (90 MW)

GWh



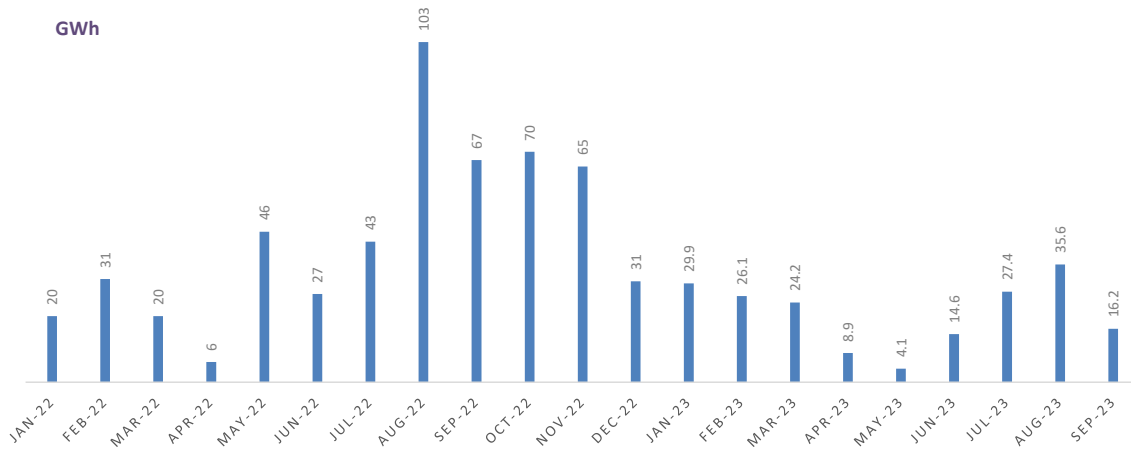
BROADLANDS POWER STATION (35 MW)

GWh



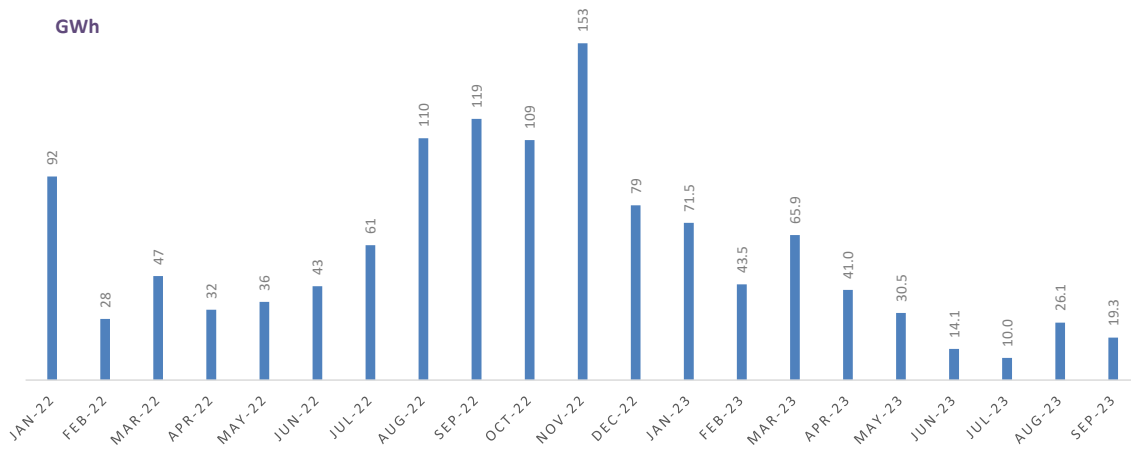
KOTMALE POWER STATION (201 MW)

GWh



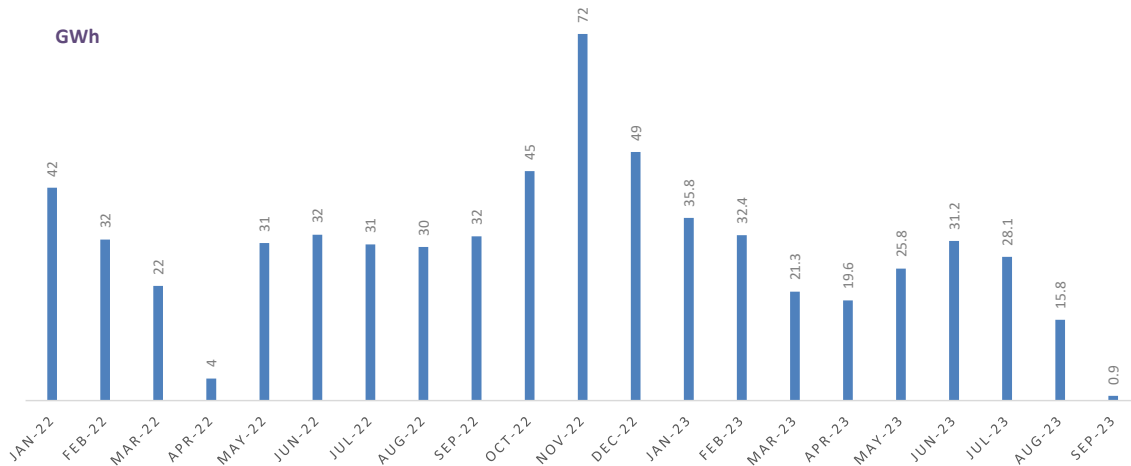
VICTORIA POWER STATION (225 MW)

GWh



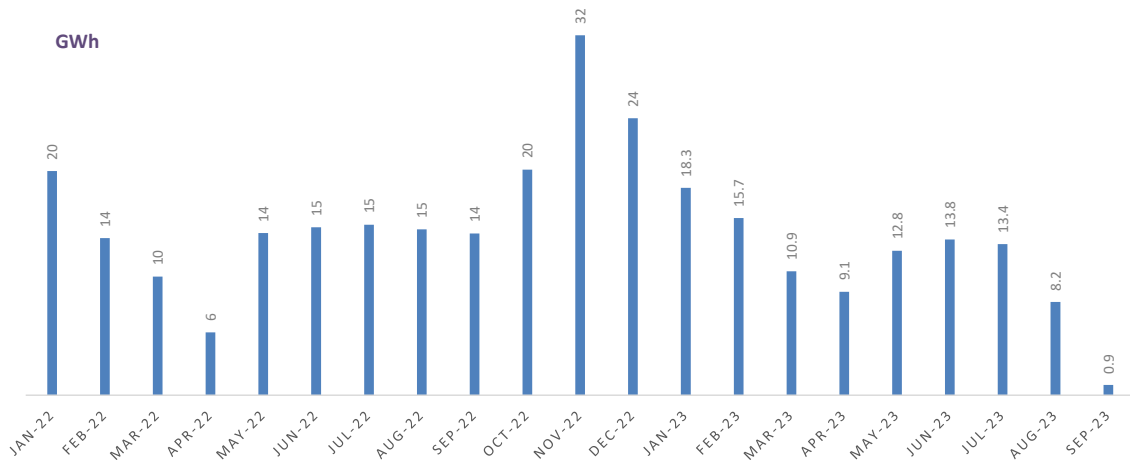
RANDENIGALA POWER STATION (114 MW)

GWh



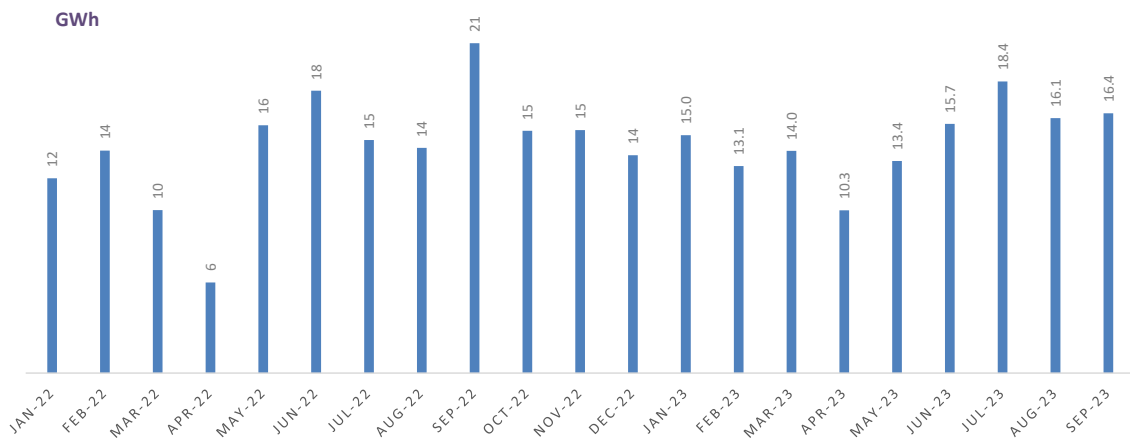
RANTAMBE POWER STATION (50 MW)

GWh



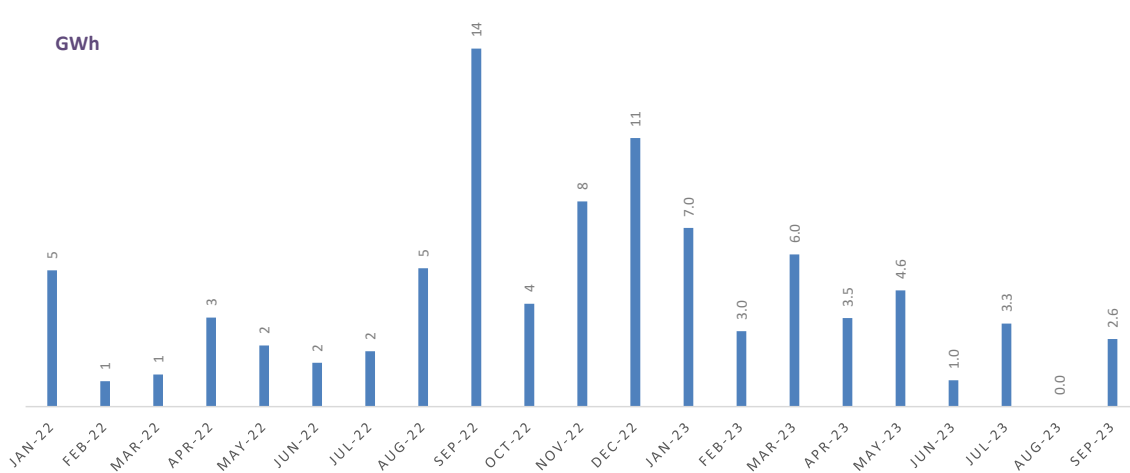
UKUWELA POWER STATION (37 MW)

GWh



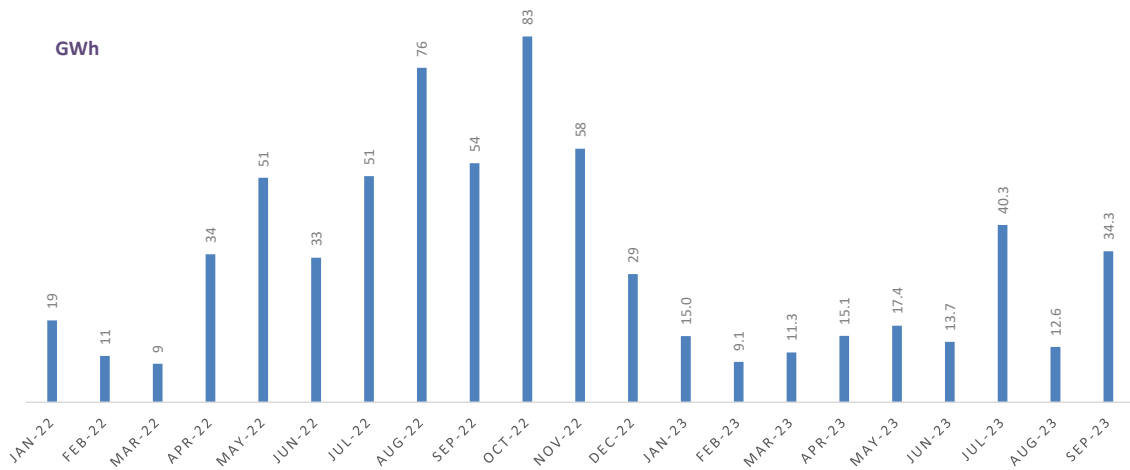
BOWATHENNA POWER STATION (40 MW)

GWh



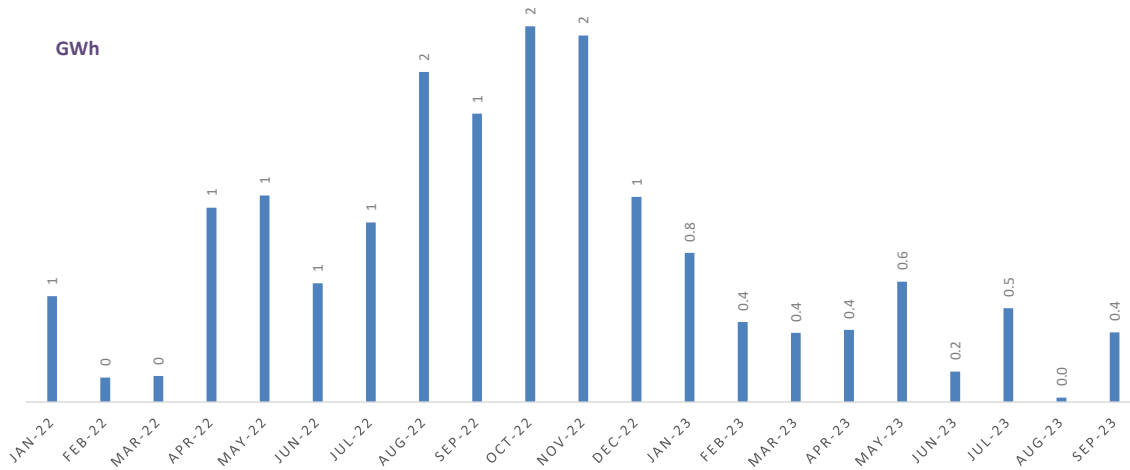
UPPER KOTMALE POWER STATION (150 MW)

GWh



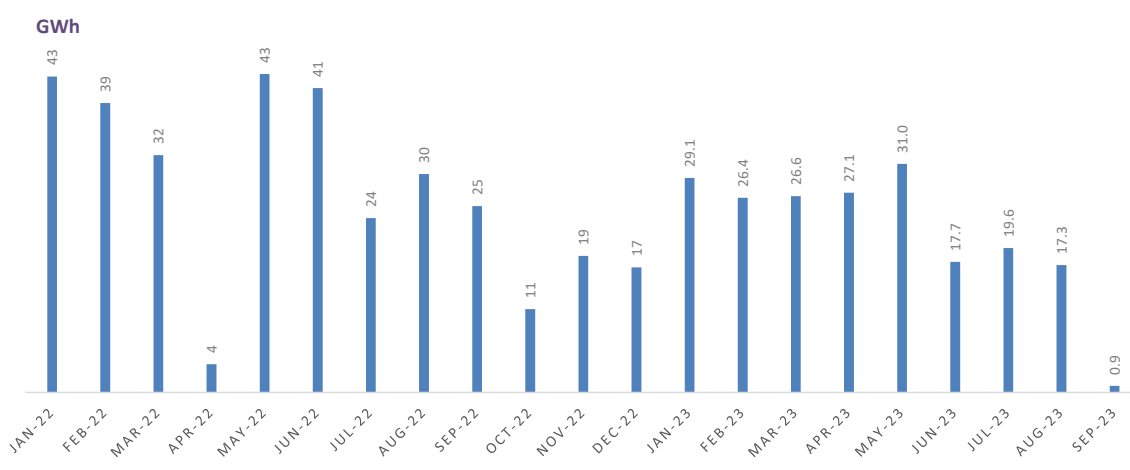
NILLAMBE POWER STATION (3 MW)

GWh



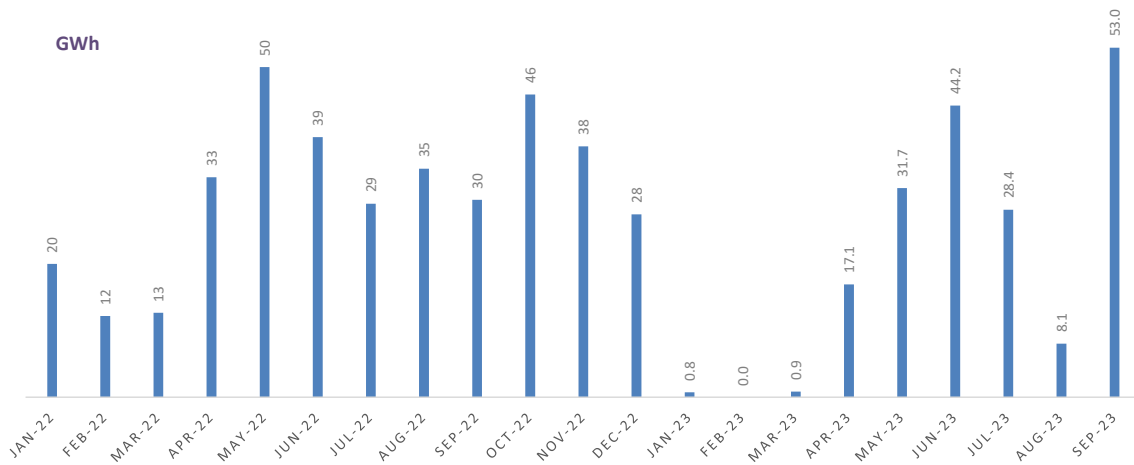
SAMANALAWEWA POWER STATION (120 MW)

GWh



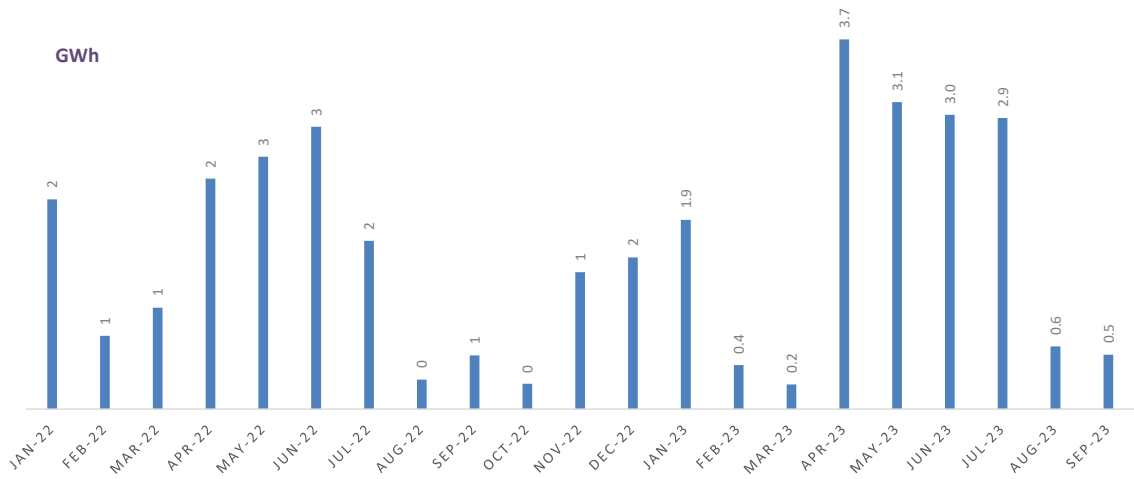
KUKULE POWER STATION (75 MW)

GWh



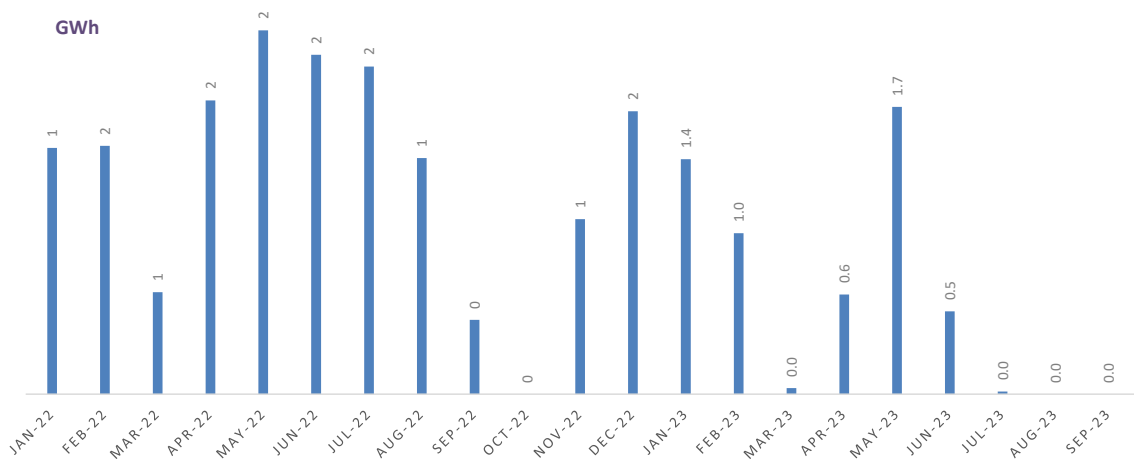
INGINIYAGALA POWER STATION (11 MW)

GWh

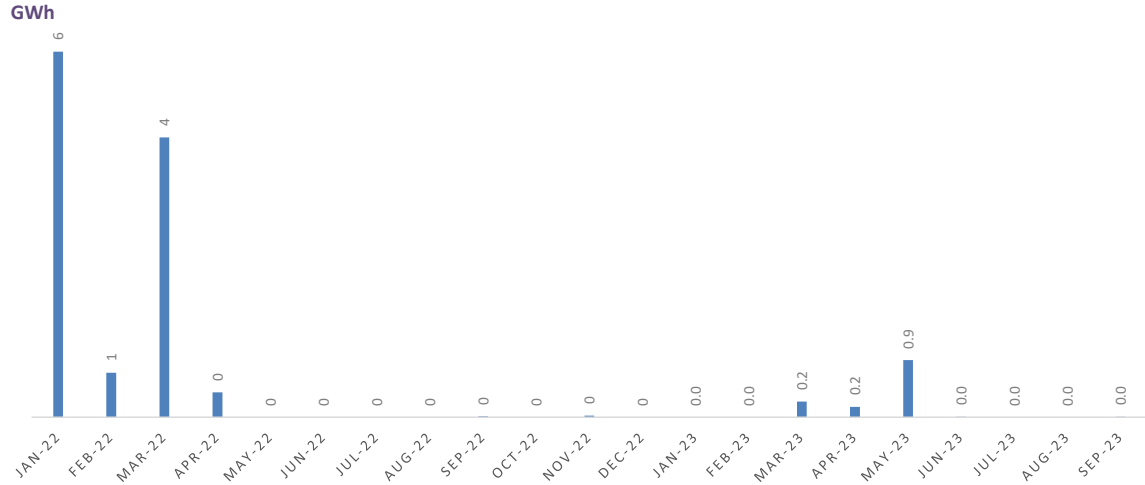


UDAWALAWE POWER STATION (6 MW)

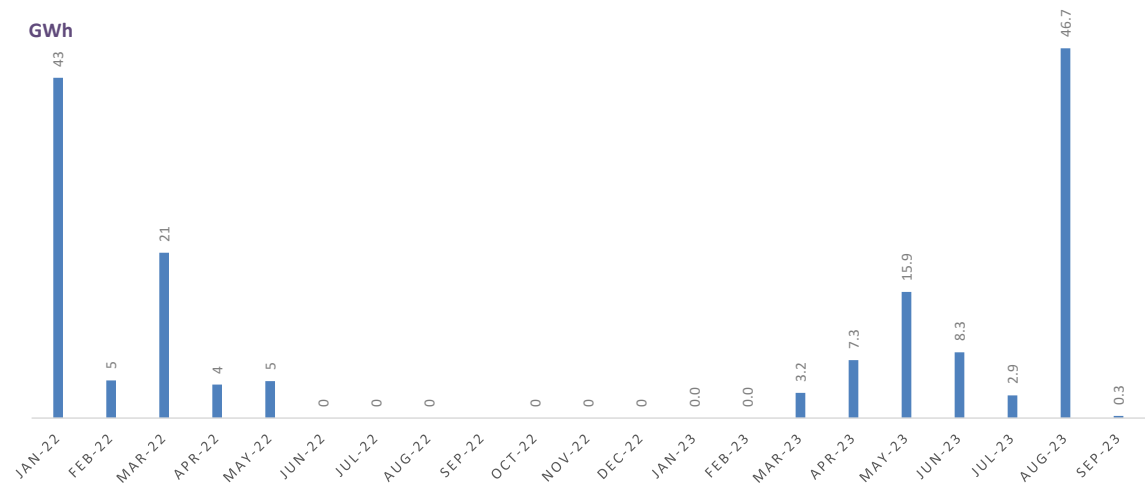
GWh



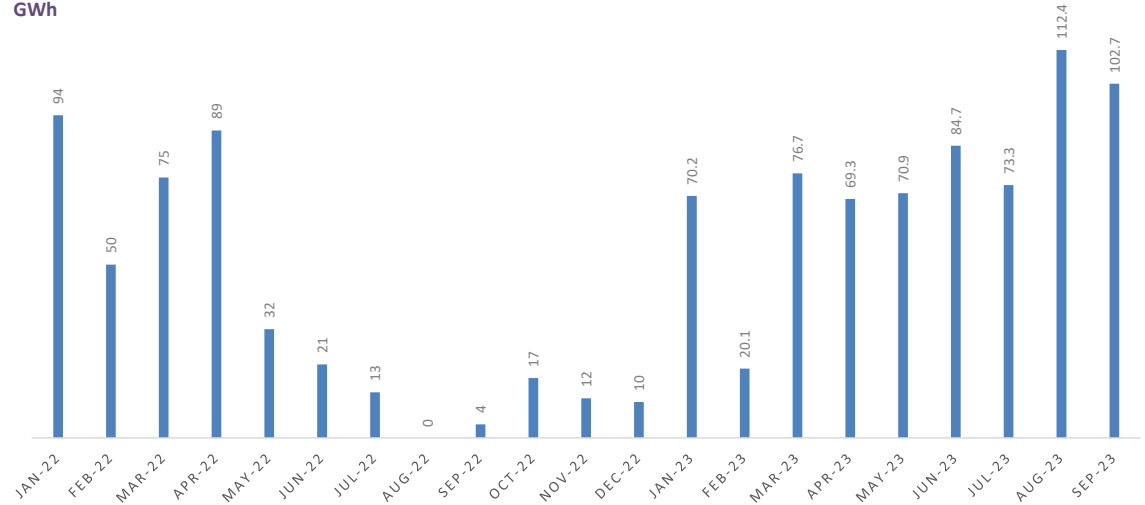
KELANITISSA SMALL GAS TURBINES (4 × 16 MW)



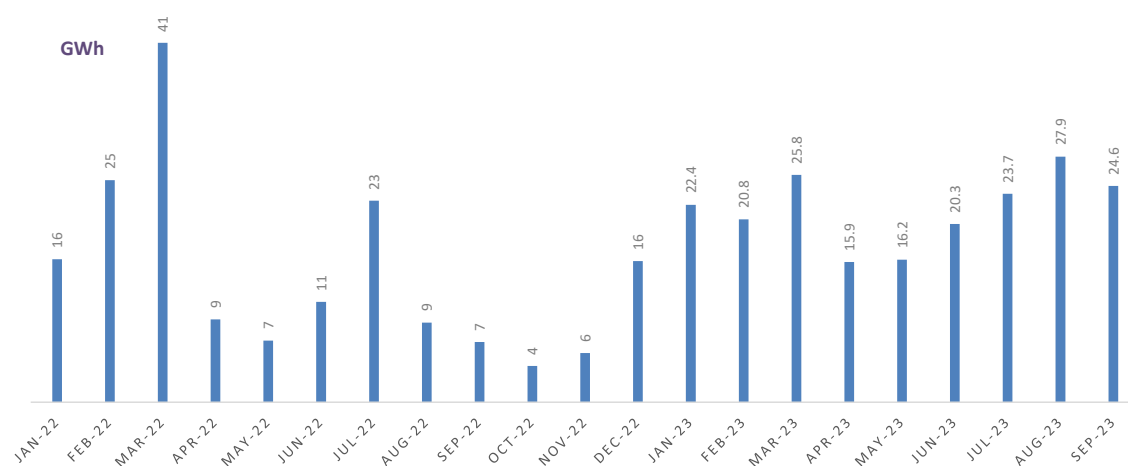
KELANITISSA GT 7 (115 MW)



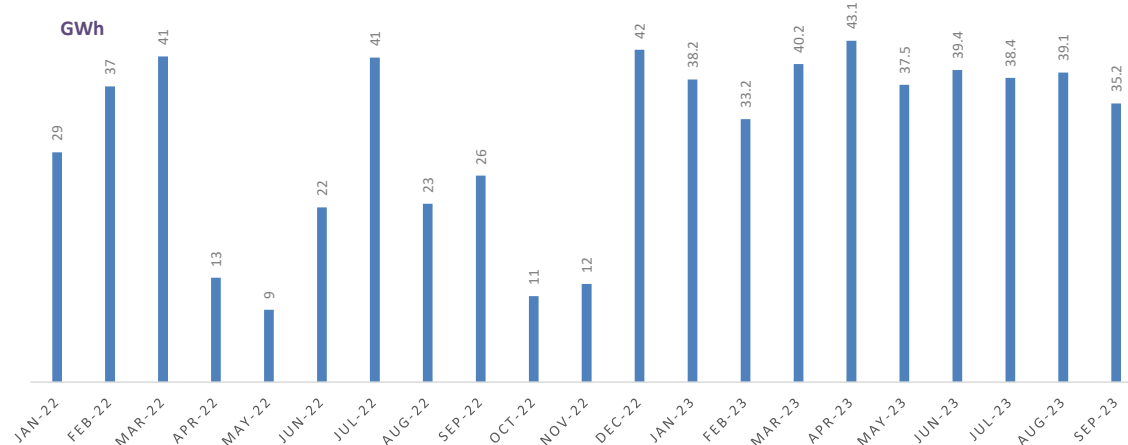
KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)



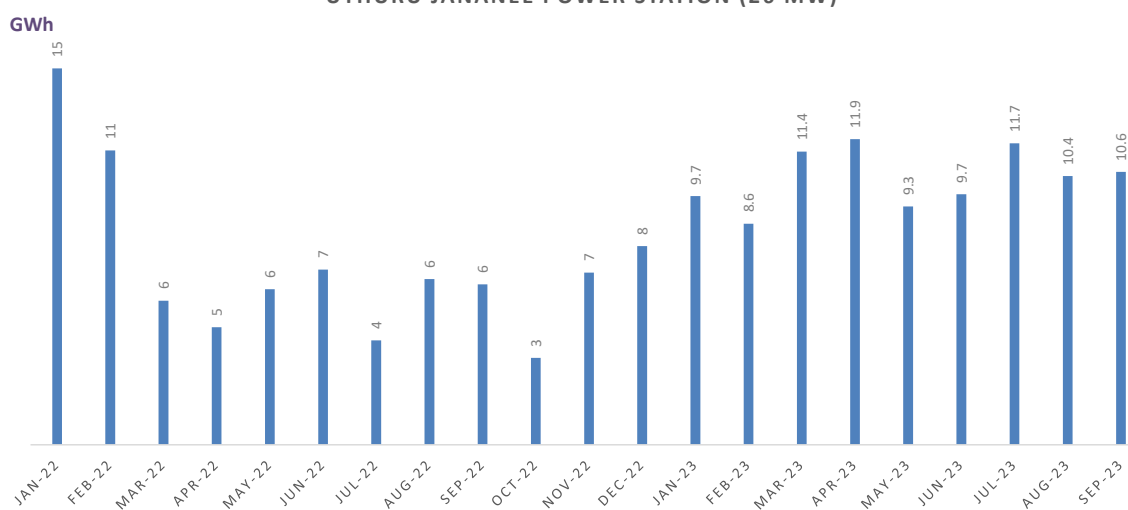
SAPUGASKANDA - A POWER STATION (80 MW)



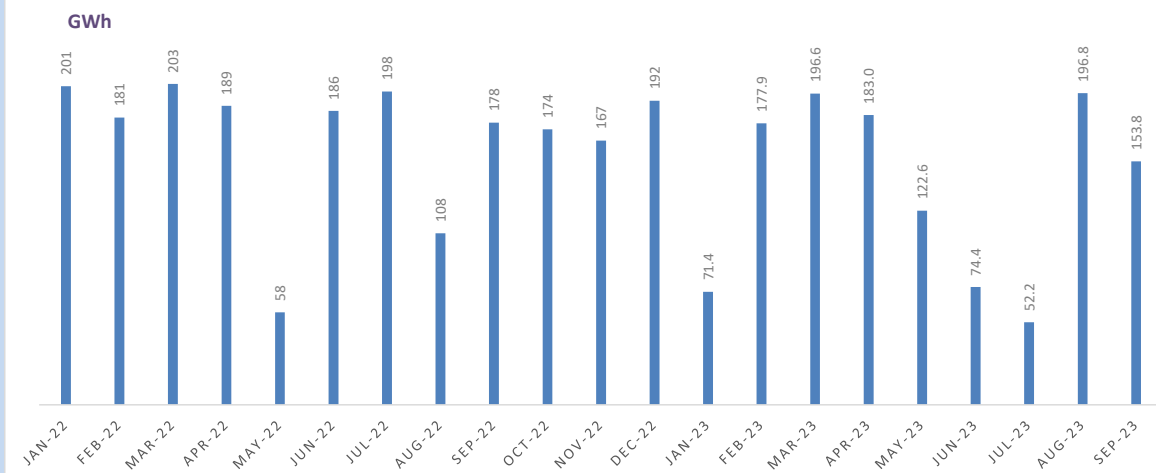
SAPUGASKANDA - B POWER STATION (80 MW)



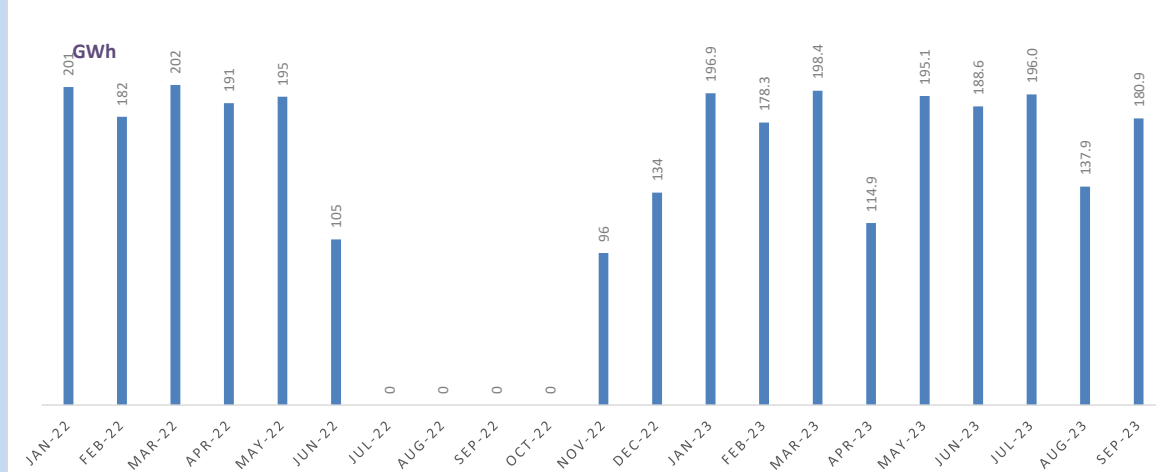
UTHURU JANANEE POWER STATION (26 MW)



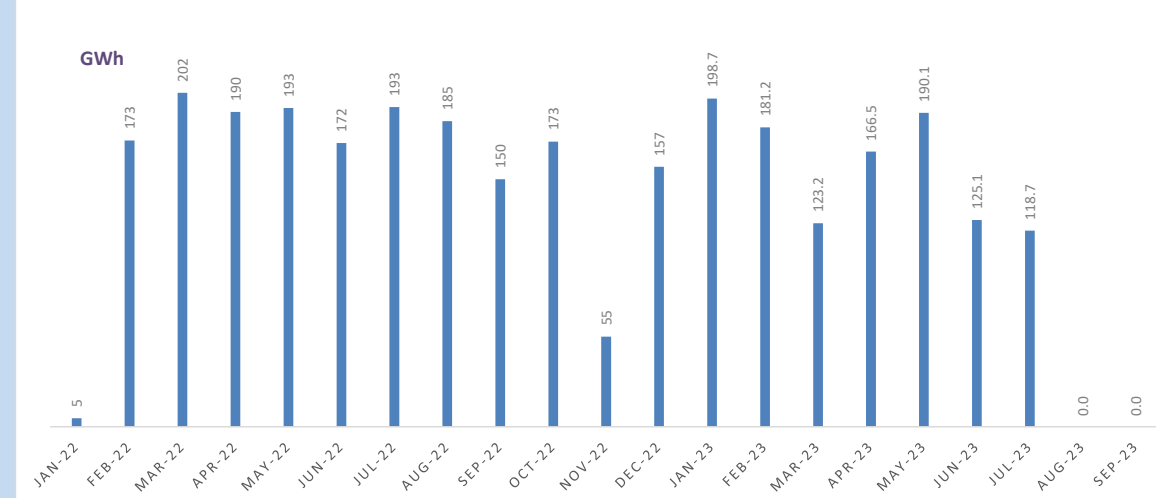
LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)



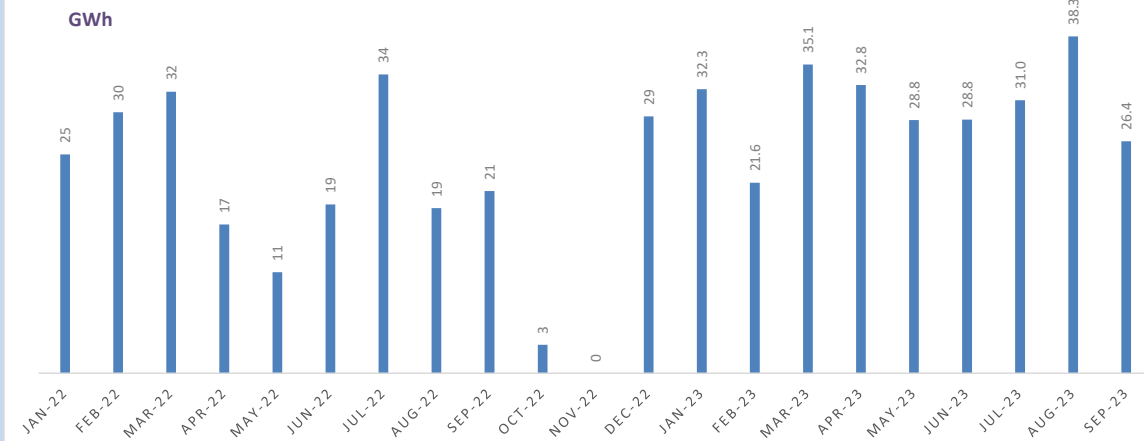
LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)



LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



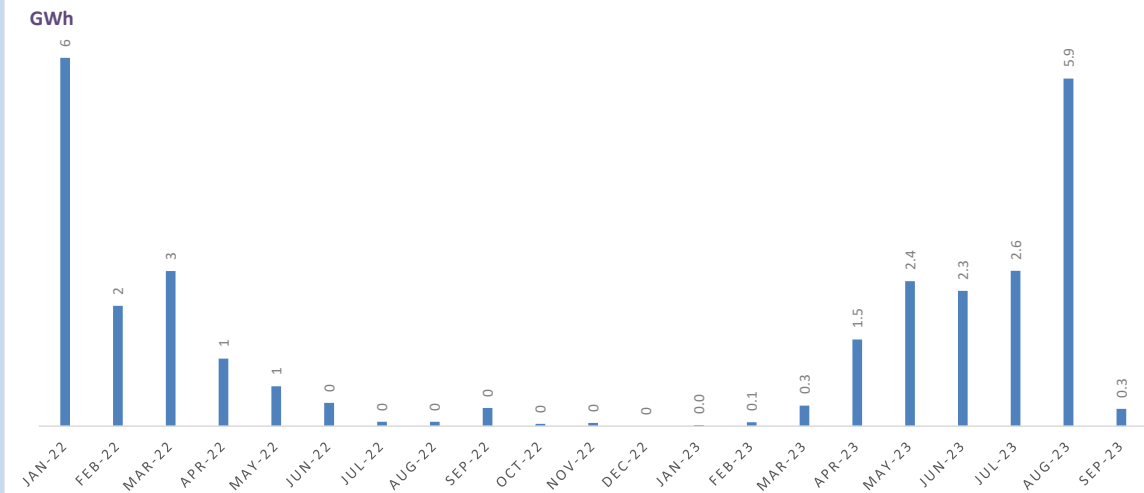
BARGE POWER STATION - CEB (60 MW)



HAMBANTOTA - CEB (30 MW)

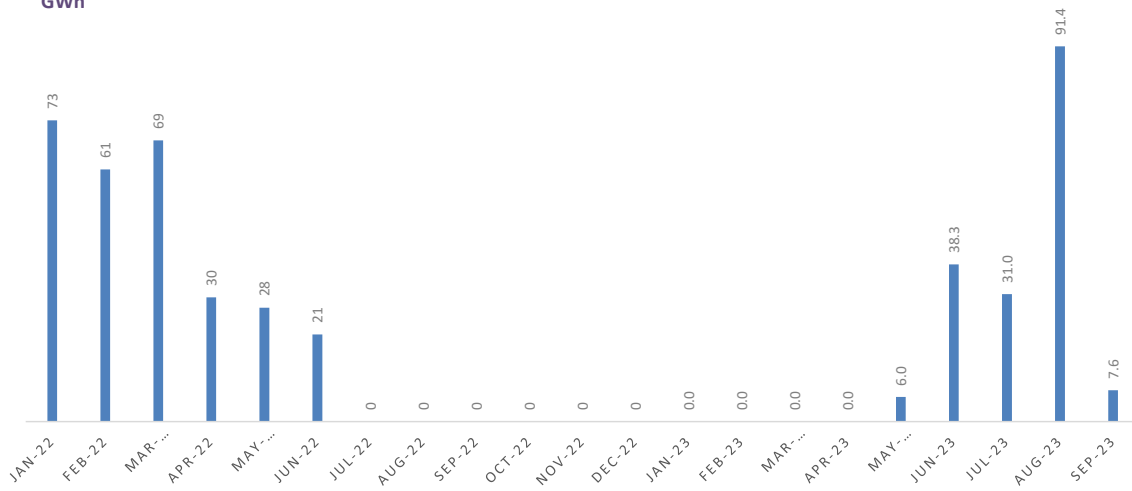


MATHUGAMA - CEB (20 MW)



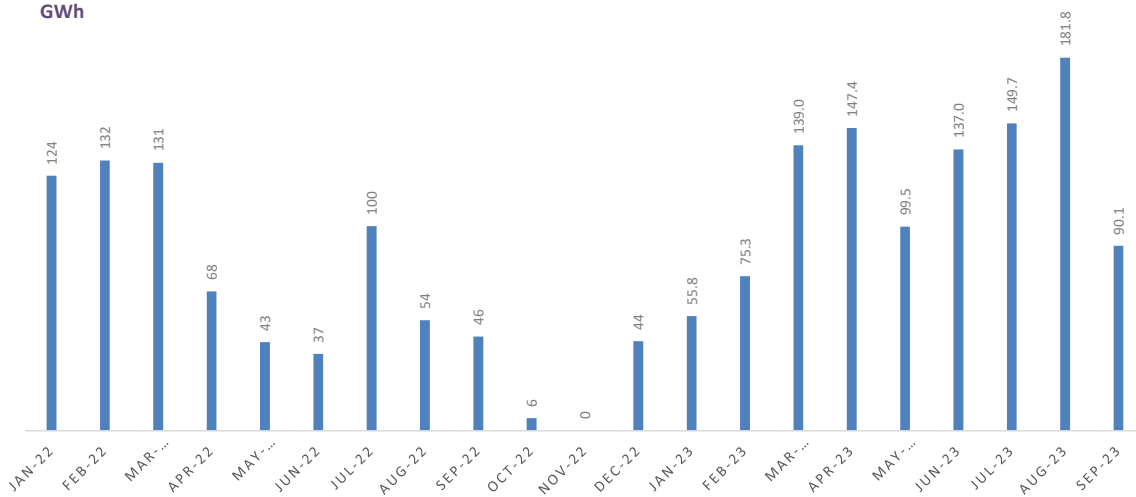
KCCPS - 02 POWER STATION (163 MW)

GWh



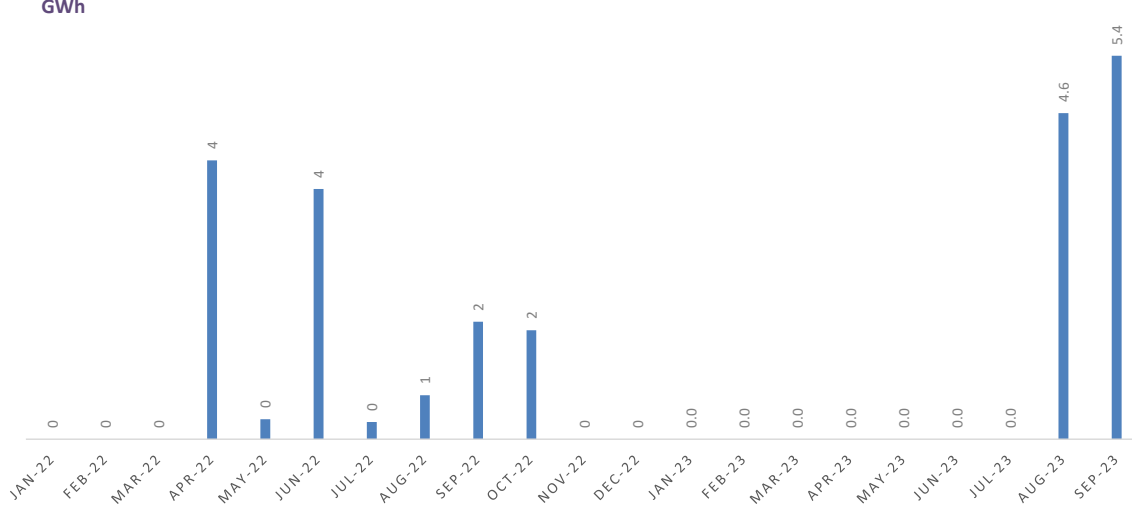
WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)

GWh



ACE - MATARA (24 MW)

GWh



3 Peak Demand

During the month;

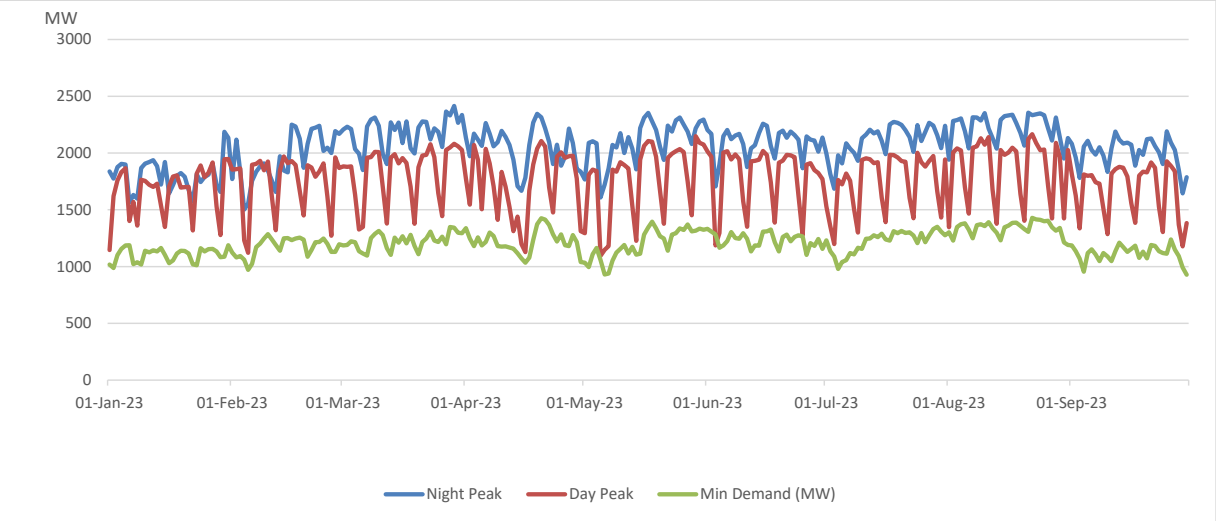
Table 05

Highest Peak Demand	2,192	MW
Lowest Peak Demand	1,645	MW
Highest Day Peak Demand	1,926	MW
Minimum Demand	928	MW

on 25-Sep
on 29-Sep
on 25-Sep
on 30-Sep

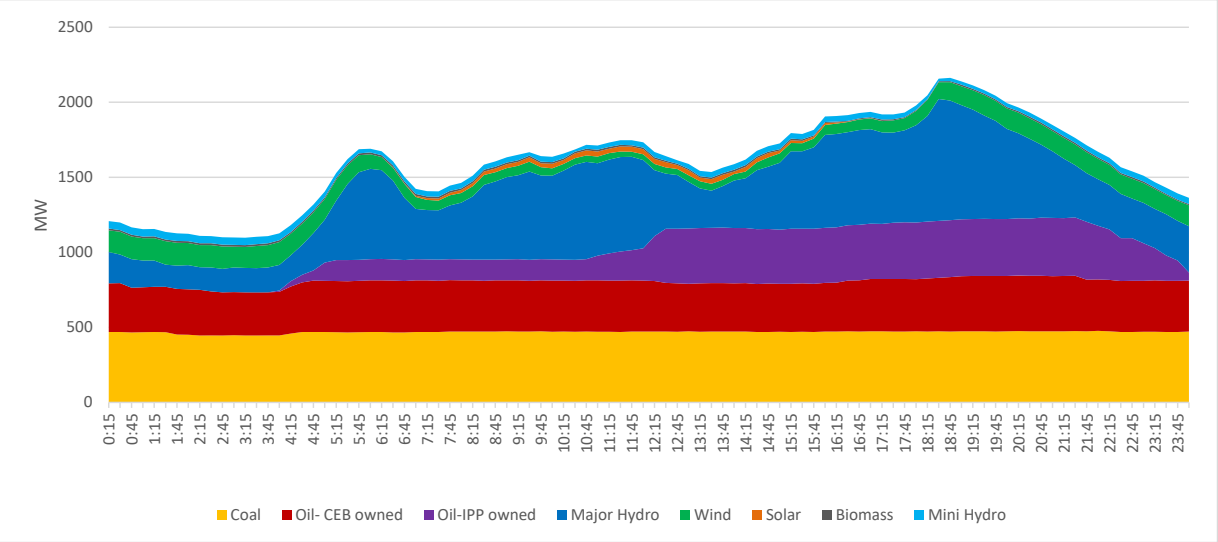
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

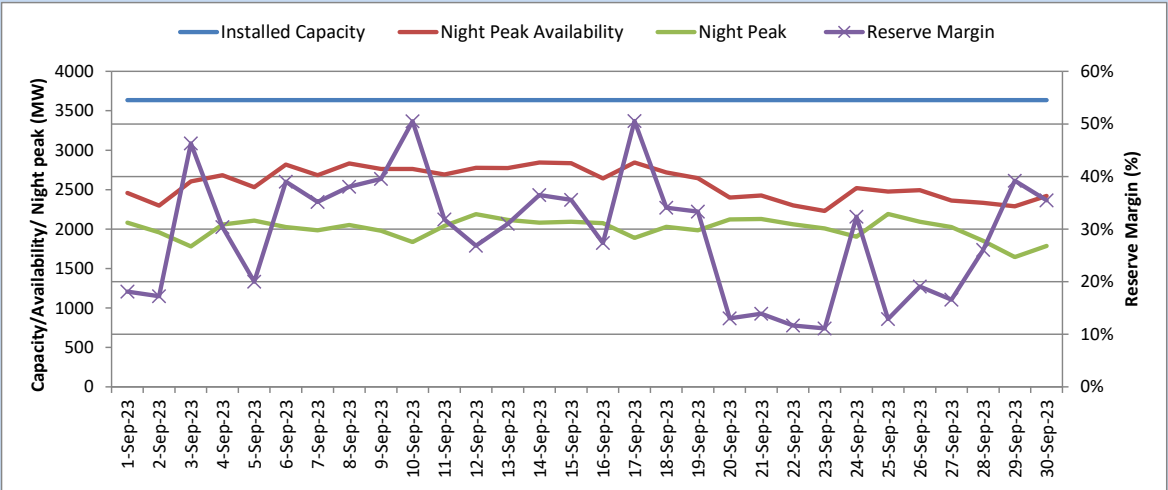


3.2 Load Curve of the Day with Highest Night Peak ,

25-Sep



3.3 Variation of Reserve Margin During Night Peak



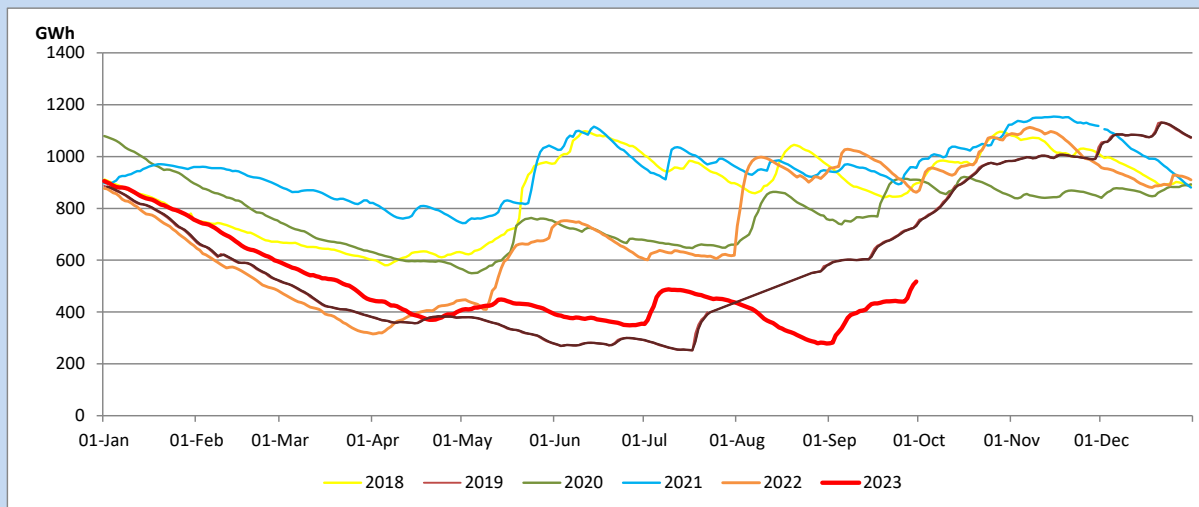
Note:Contribution from NCRE plants is not included

4 Reservoir Statistics

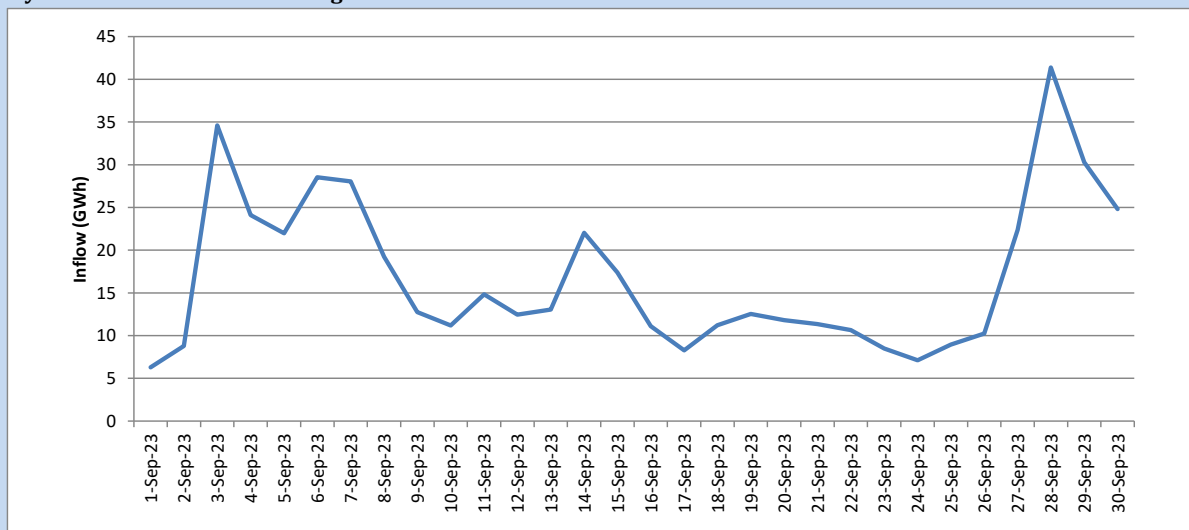
Table 05

Total Reservoir level at the beginning of the month	279.2 GWh
Total Reservoir level at the end of the month	517.7 GWh
Total Inflow	505.9 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

