

Monthly Generation Report

August-23



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

August-23

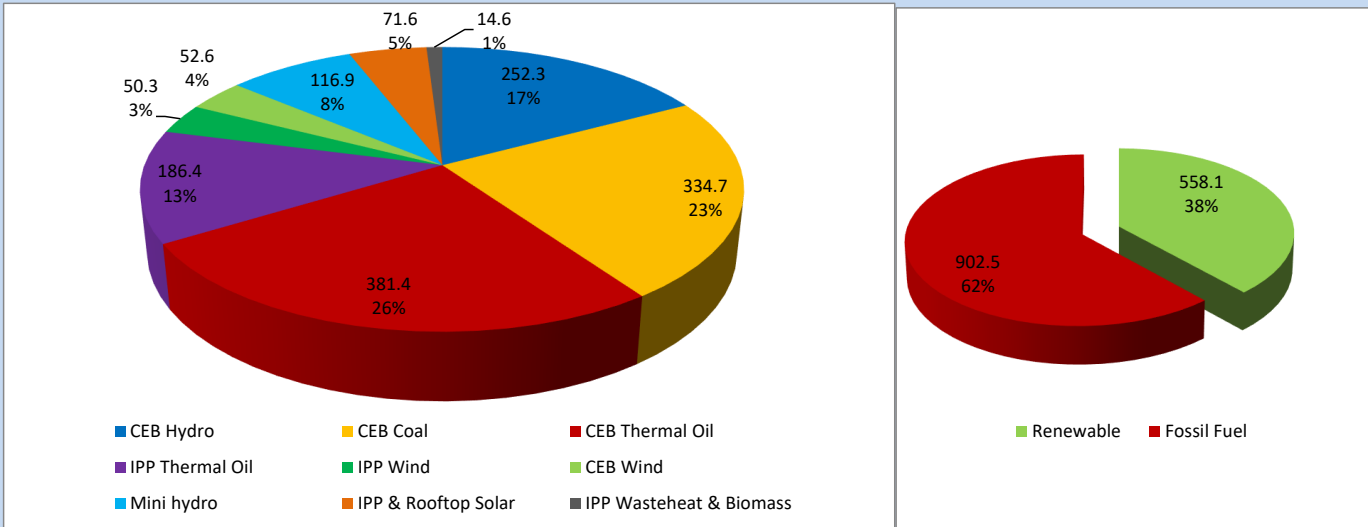


Table 01

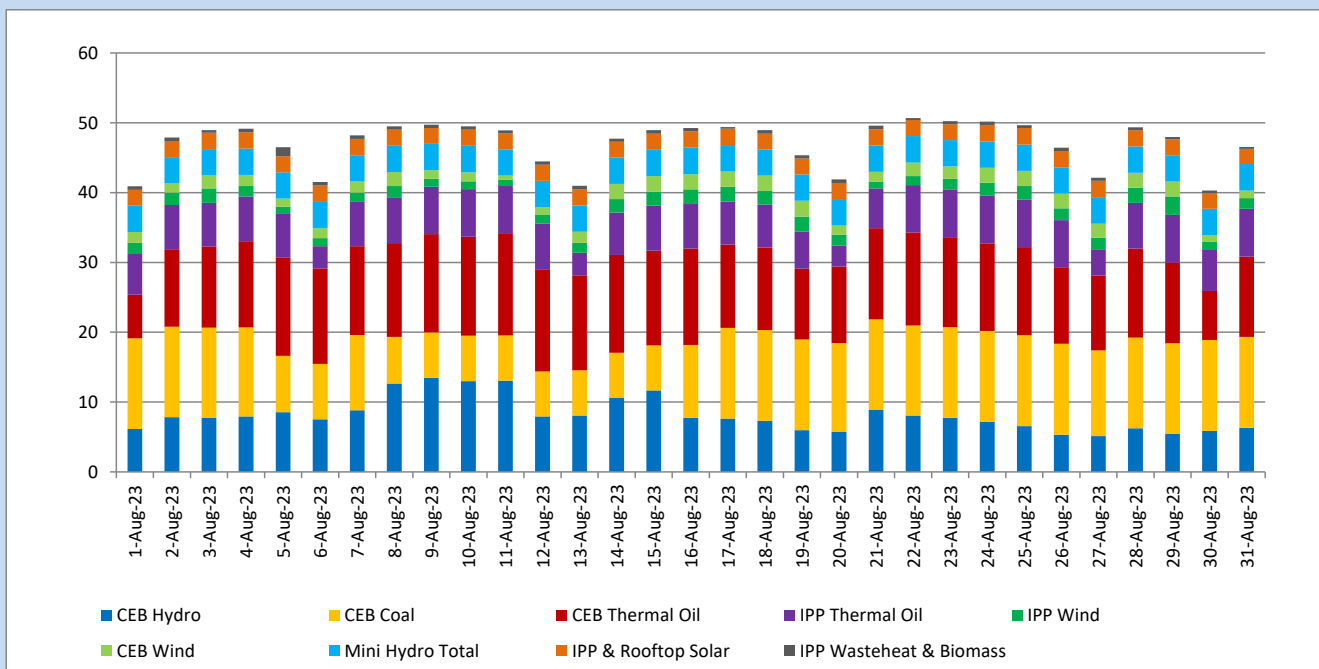
CEB Hydro	252	GWh
CEB Coal	335	GWh
CEB Thermal Oil	381	GWh
IPP Thermal Oil	186	GWh
IPP Wind	50	GWh
CEB Wind	53	GWh
Mini Hydro (Including non telemetered)	117	GWh
IPP Solar (Including estimated figures)	72	GWh
IPP Wasteheat + Biomass	15	GWh
Total Generation (Including estimated figures)	1,461	GWh

Total Generation = 1,461 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

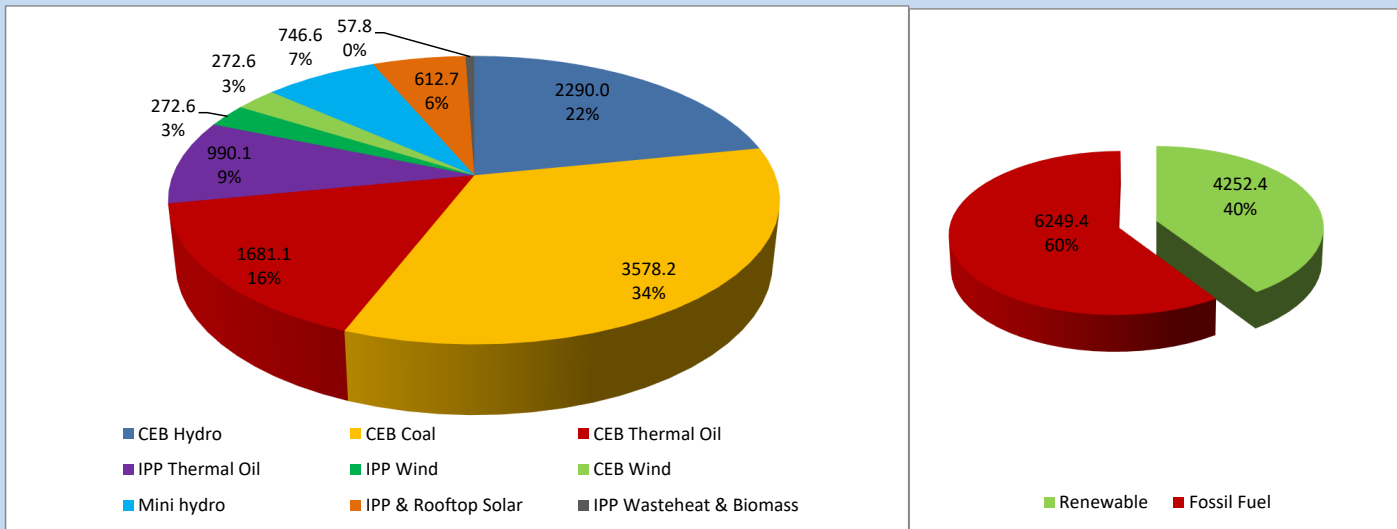


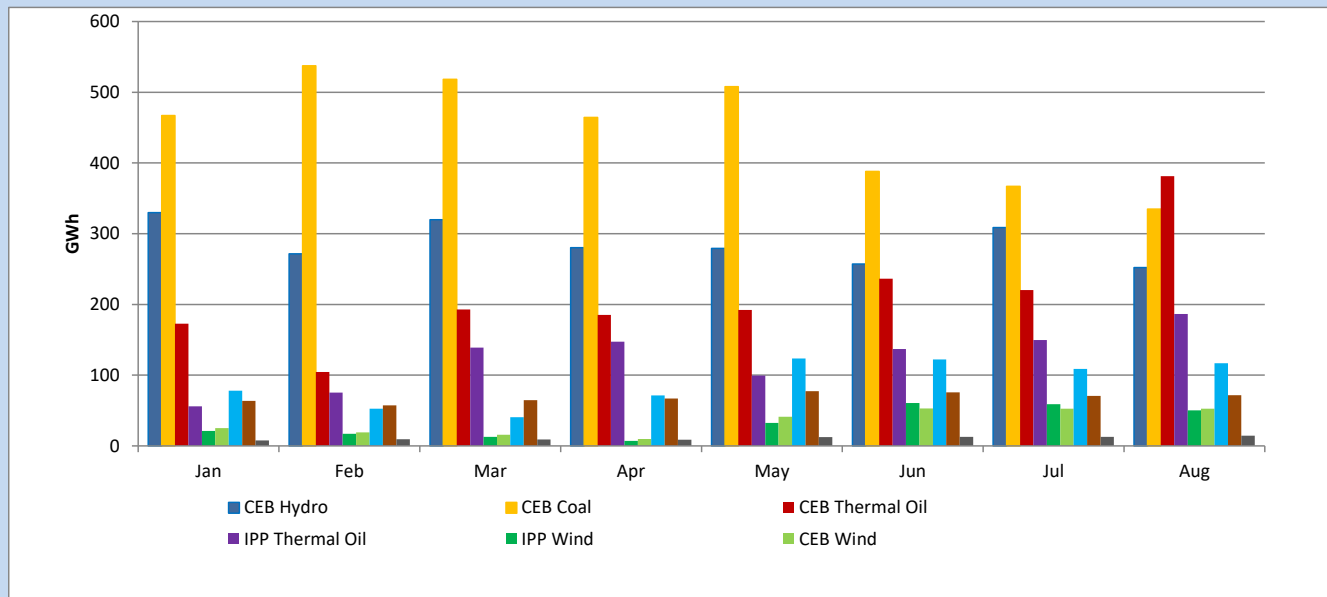
Table 02

CEB Hydro	2290.03	GWh
CEB Coal	3578.19	GWh
CEB Thermal Oil	1681.11	GWh
IPP Thermal Oil	990.14	GWh
IPP Wind	272.58	GWh
CEB Wind	272.62	GWh
Mini Hydro (Including non telemetered)	746.64	GWh
IPP Solar (Including estimated figures)	612.68	GWh
IPP Wasteheat + Biomass	57.82	GWh
Total Generation (Including estimated figures)	10501.81	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	416
IPP Waste heat + Biomass	50
IPP Solar	130
Rooftop Solar* (Ordinary)	267
Rooftop Solar* (LT Bulk)	256
Rooftop Solar* (HT Bulk)	61

1.4 Variation of Monthly Generation Mix during the year



2 Major Plant Dispatch

2.1 Dispatch from all Generation Major Plants in

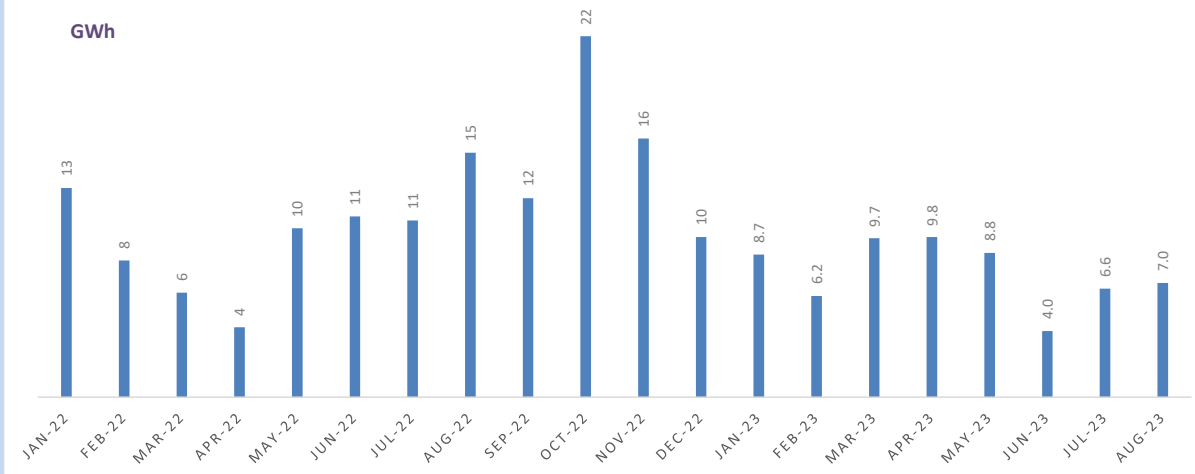
August-23

Table 04

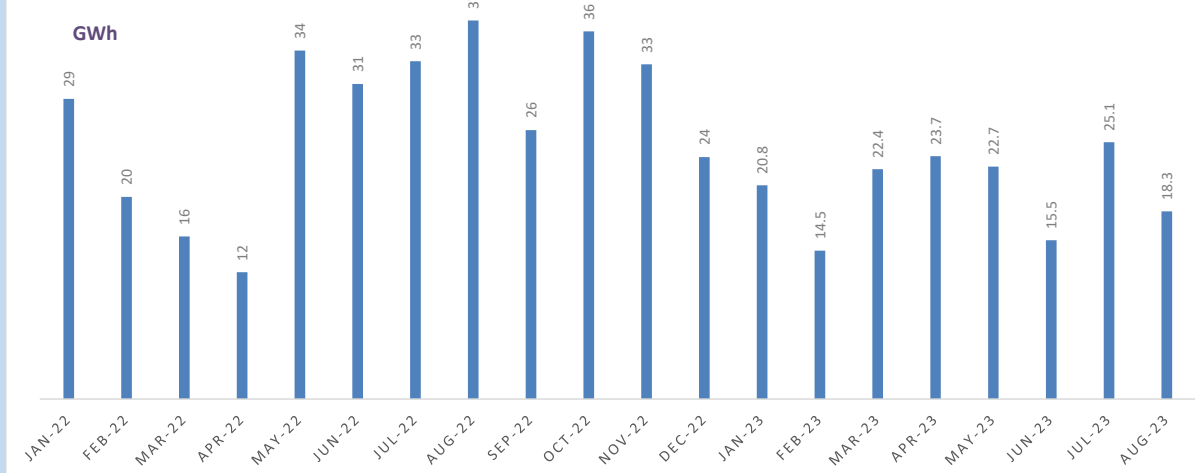
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	6,959	18.7%
Old Laxapana	54	18,317	45.6%
Canyon	60	12,041	27.0%
New Laxapana	100	39,239	52.7%
Polpitiya	90	28,803	43.0%
Broadlands	35	6,366	24.4%
Kotmale	201	35,641	23.8%
Victoria	225	26,141	15.6%
Randenigala	114	15,810	18.6%
Rantambe	50	8,238	22.1%
Ukuwela	37	16,098	58.5%
Bowatenna	40	13	0.0%
Upper Kotmale	150	12,578	11.3%
Nilambe	3	23	1.0%
Samanalawewa	120	17,271	19.3%
Kukule	75	8,105	14.5%
Inginiyagala	11	632	7.7%
Udawalawe	6	0	0.0%
Puttalam Coal I	270	196,828	98.0%
Puttalam Coal II	270	137,851	68.6%
Puttalam Coal III	270	0	0.0%
KPS Small GTs	64	0	0.0%
KPS GT 7	115	46,683	54.6%
KCCP	161	112,438	93.9%
Sapugaskanda A	70	27,890	53.6%
Sapugaskanda B	70	39,081	75.0%
Uthura Janani	26	10,439	54.0%
Barge CEB	60	38,270	85.7%
CEB - Hambantota	30	9,371	42.0%
CEB - Mathugama	20	5,861	39.4%
KCCPS -2	163	91,362	75.3%
ACE Matara	24	4,631	89.3%
West Coast	270	181,750	90.5%

2.3 Generation of Major Power Plants From Last Year

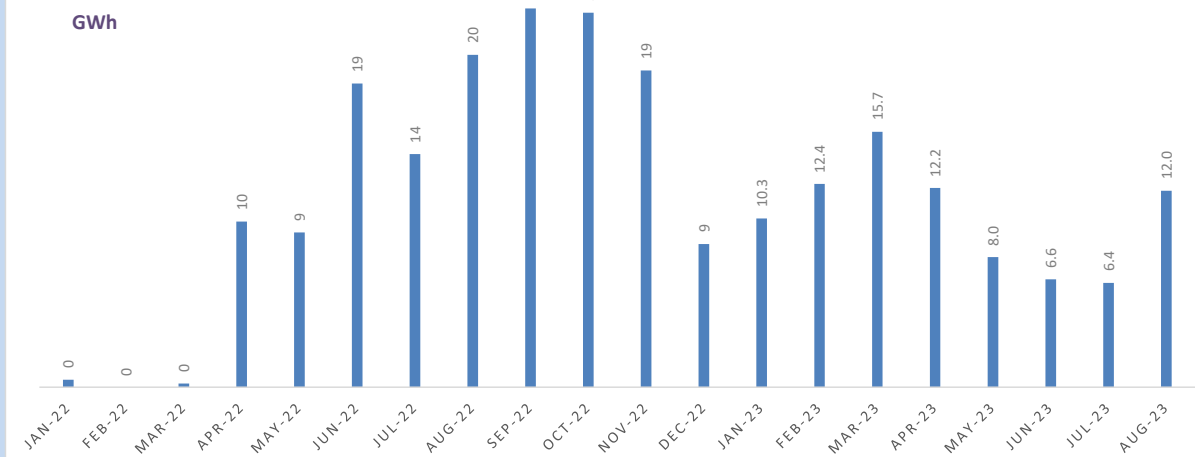
WIMALASURENDRA POWER STATION (53.5MW)



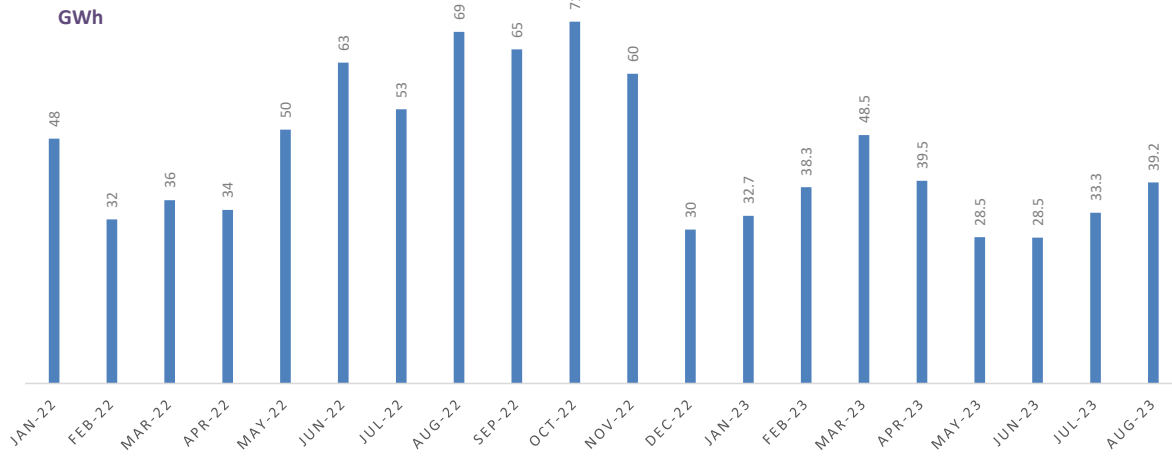
OLD LAXAPANA POWER STATION (53.5MW)



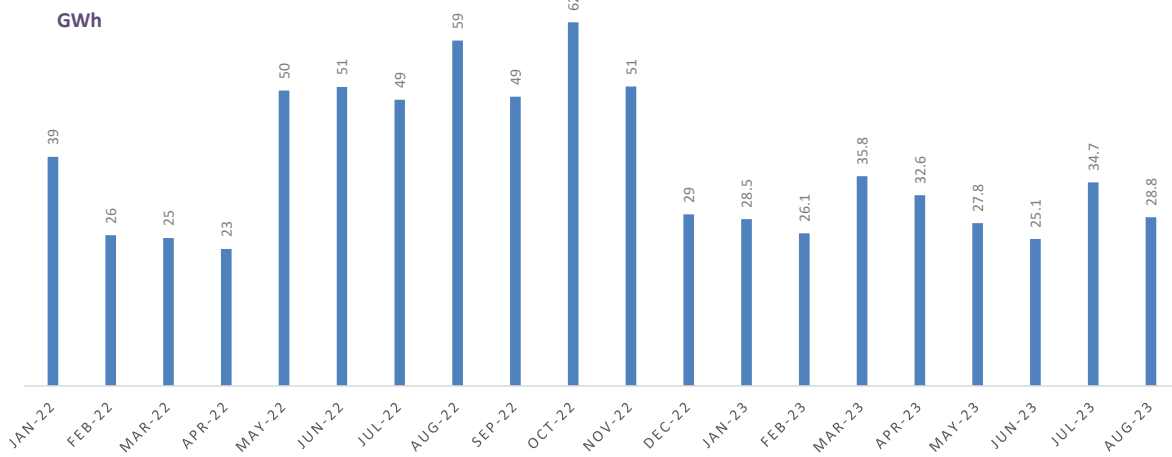
CANYON POWER STATION (60 MW)



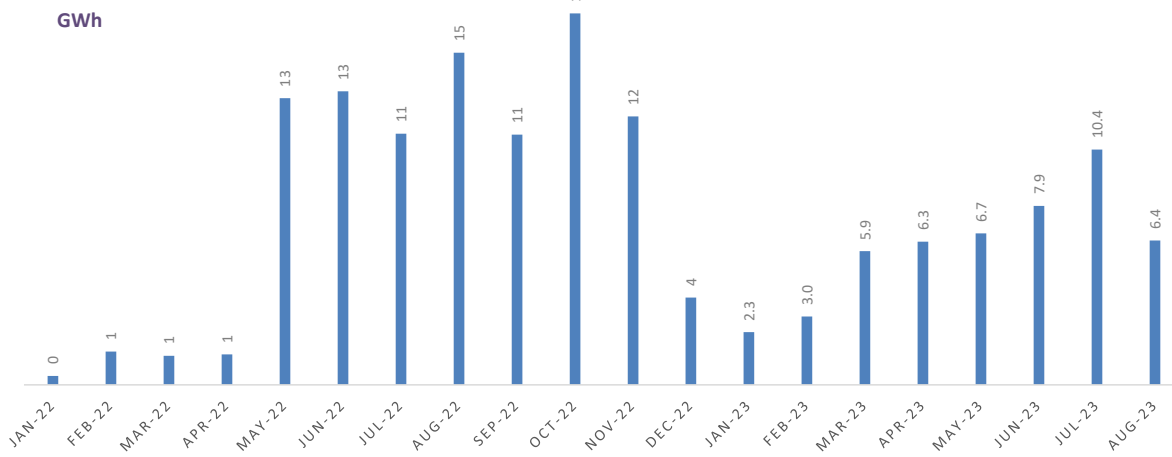
NEW LAXAPANA POWER STATION (115 MW)



POLPITIYA POWER STATION (90 MW)

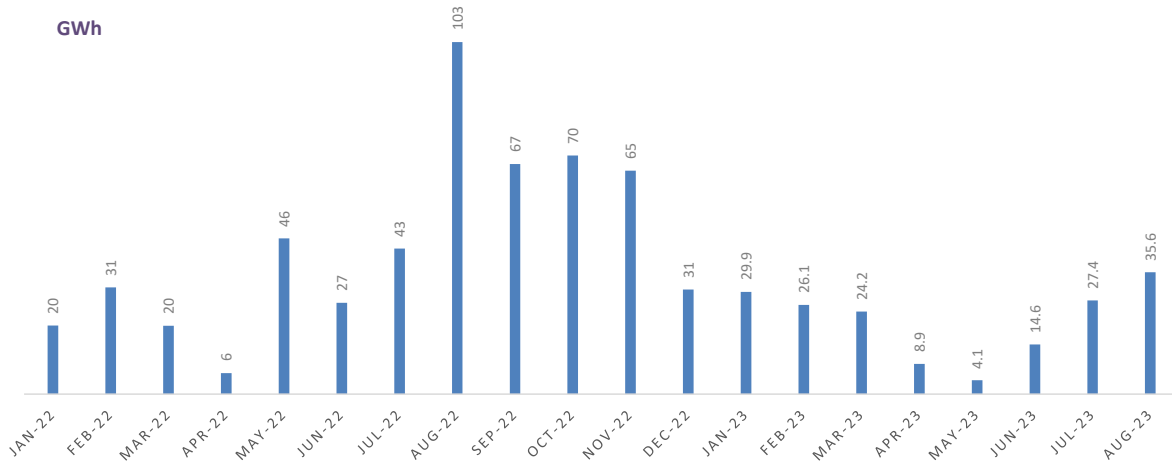


BROADLANDS POWER STATION (35 MW)



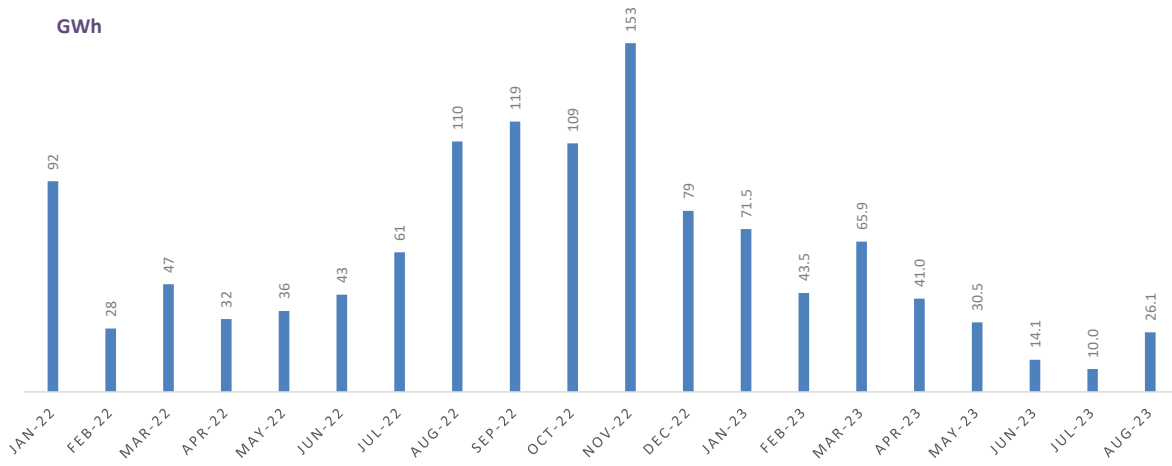
KOTMALE POWER STATION (201 MW)

GWh



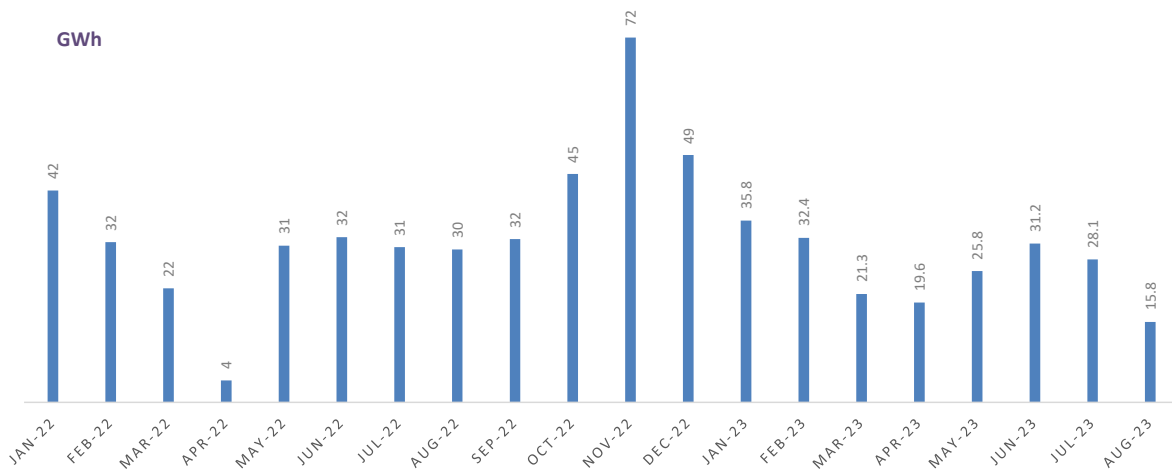
VICTORIA POWER STATION (225 MW)

GWh

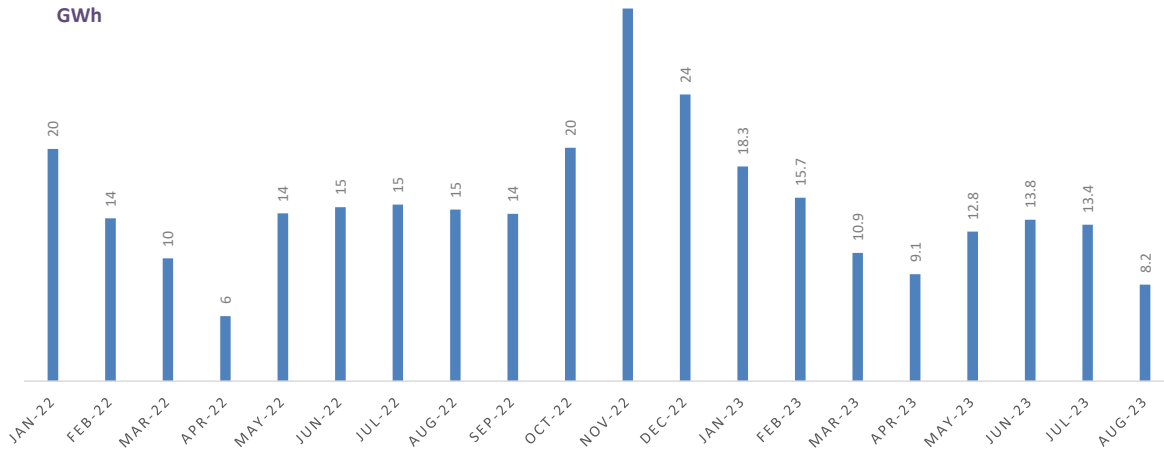


RANDENIGALA POWER STATION (114 MW)

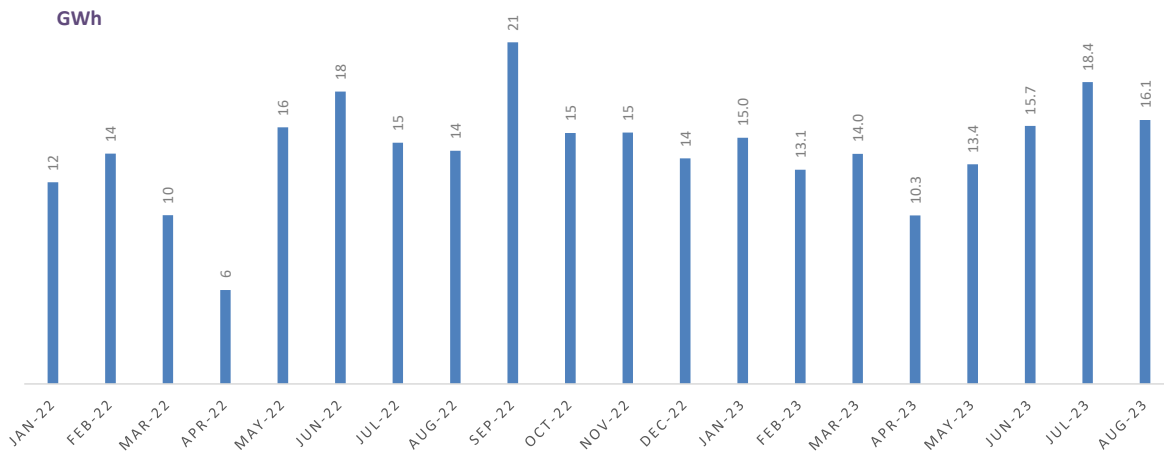
GWh



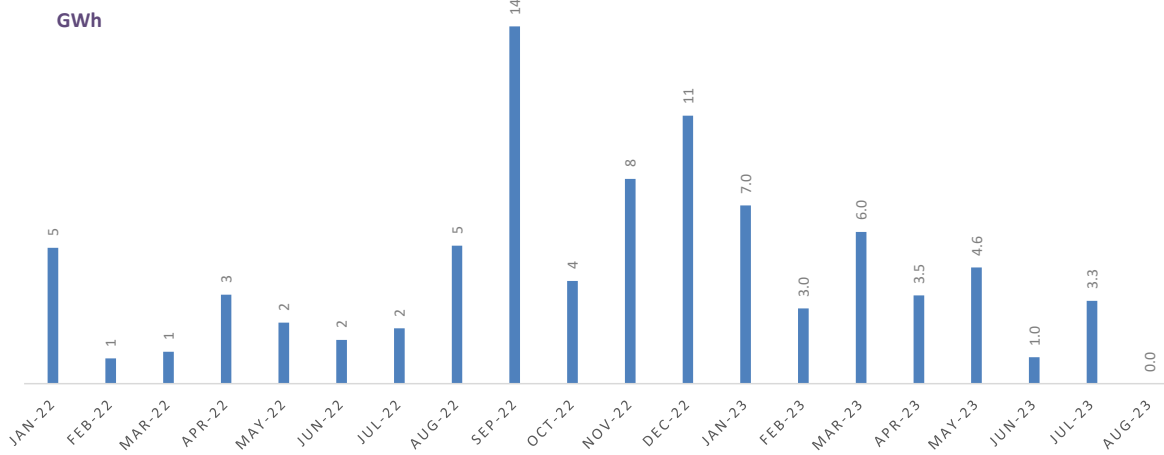
RANTAMBE POWER STATION (50 MW)



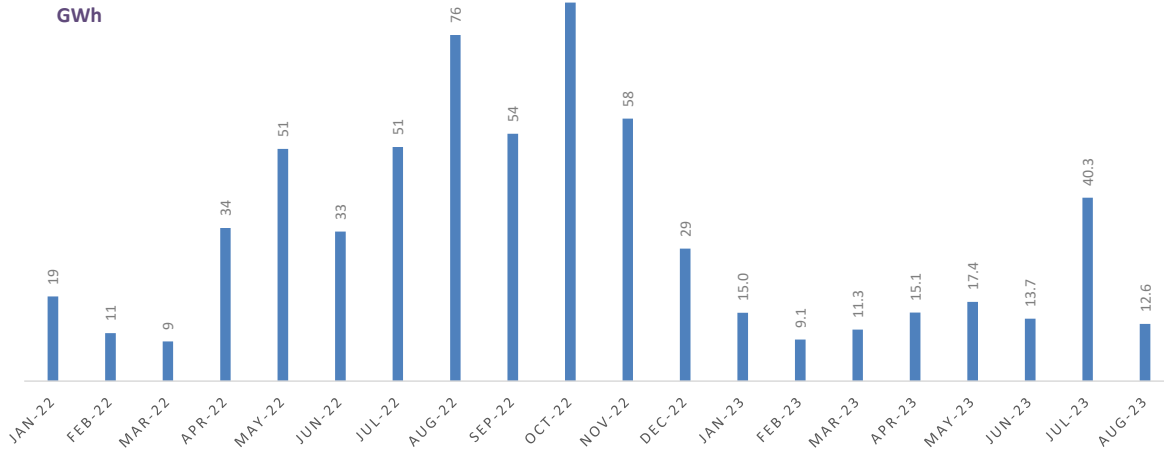
UKUWELA POWER STATION (37 MW)



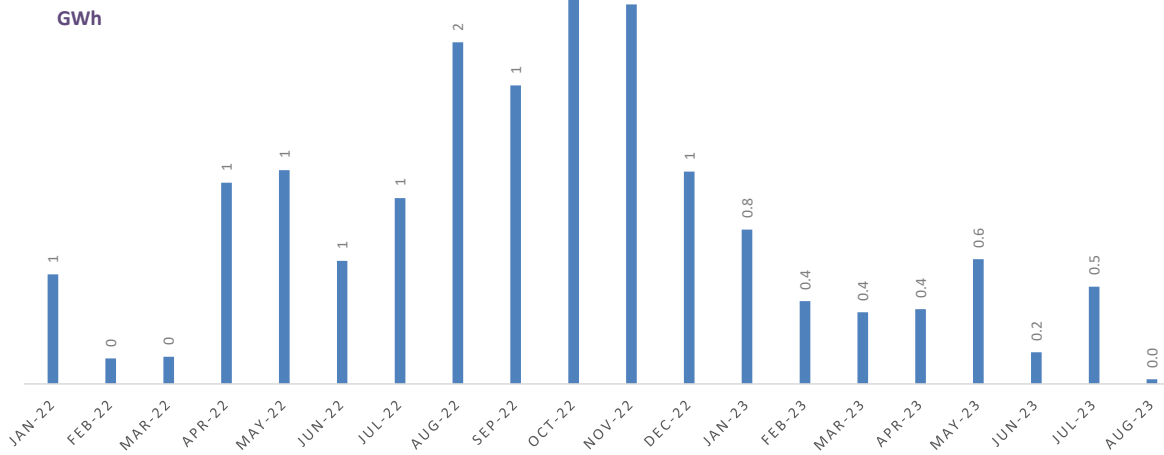
BOWATHENNA POWER STATION (40 MW)



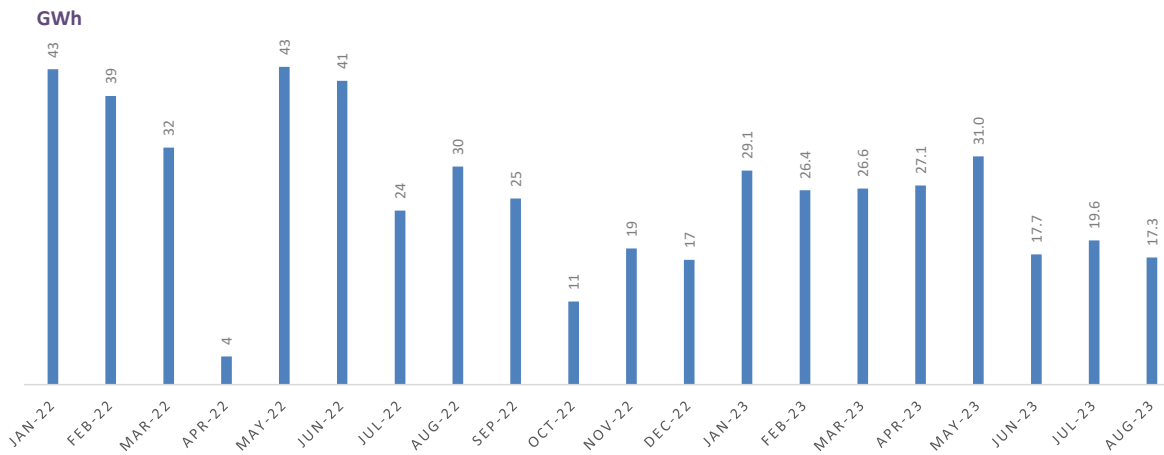
UPPER KOTMALE POWER STATION (150 MW)



NILLAMBE POWER STATION (3 MW)

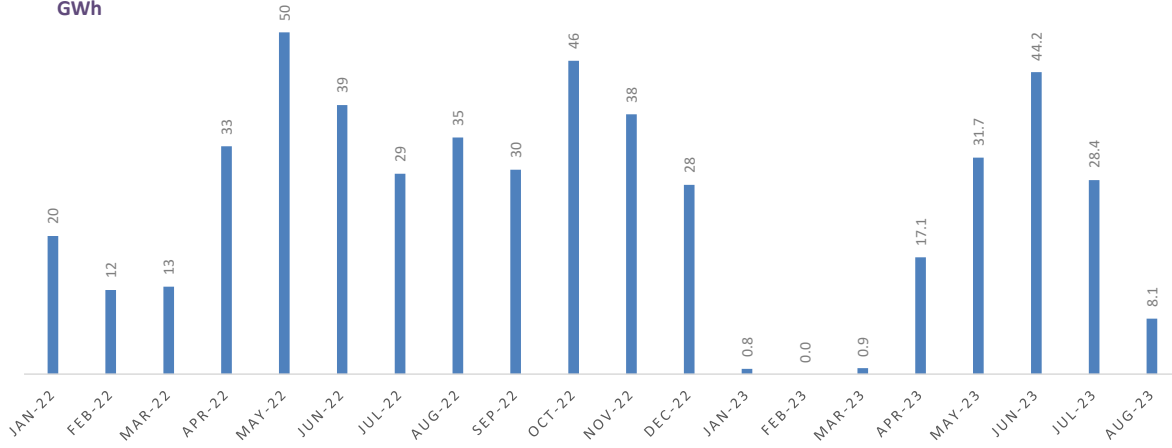


SAMANALAWEWA POWER STATION (120 MW)



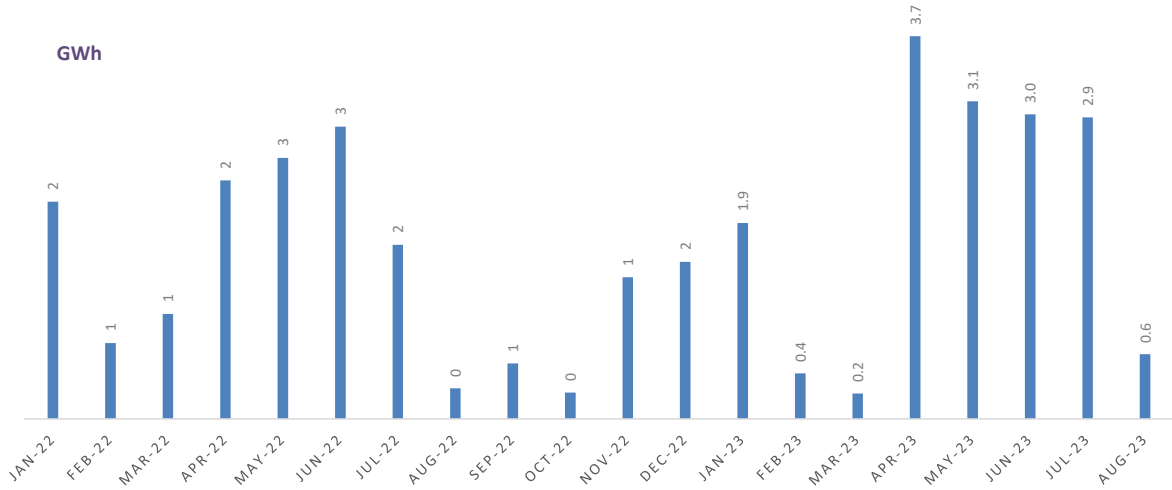
KUKULE POWER STATION (75 MW)

GWh



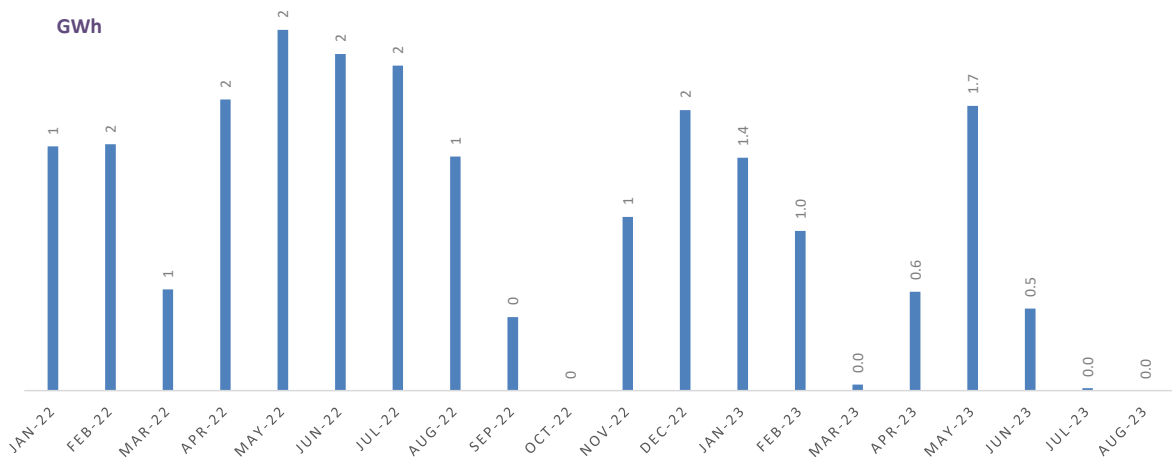
INGINIYAGALA POWER STATION (11 MW)

GWh

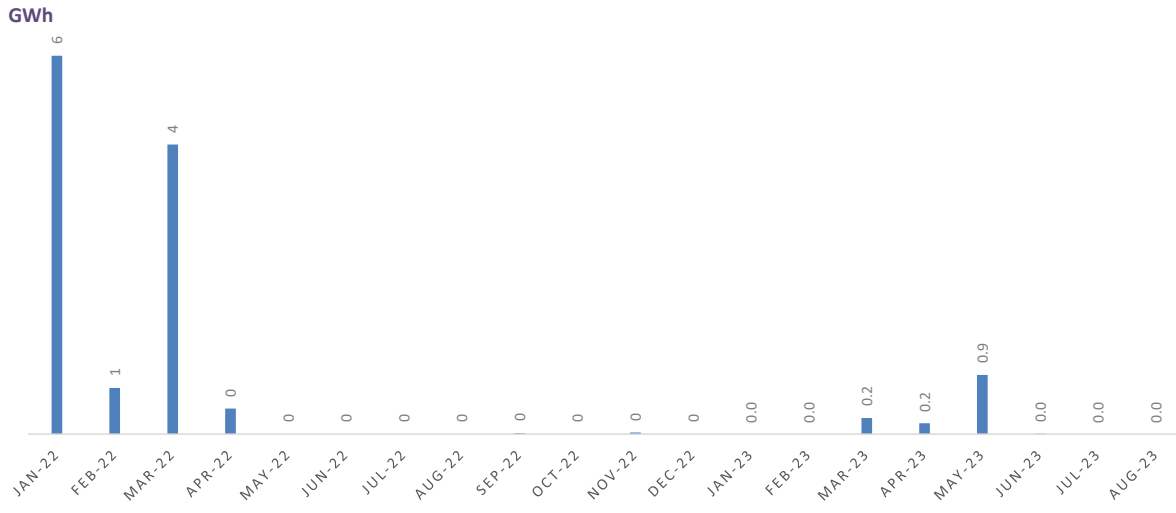


UDAWALAWE POWER STATION (6 MW)

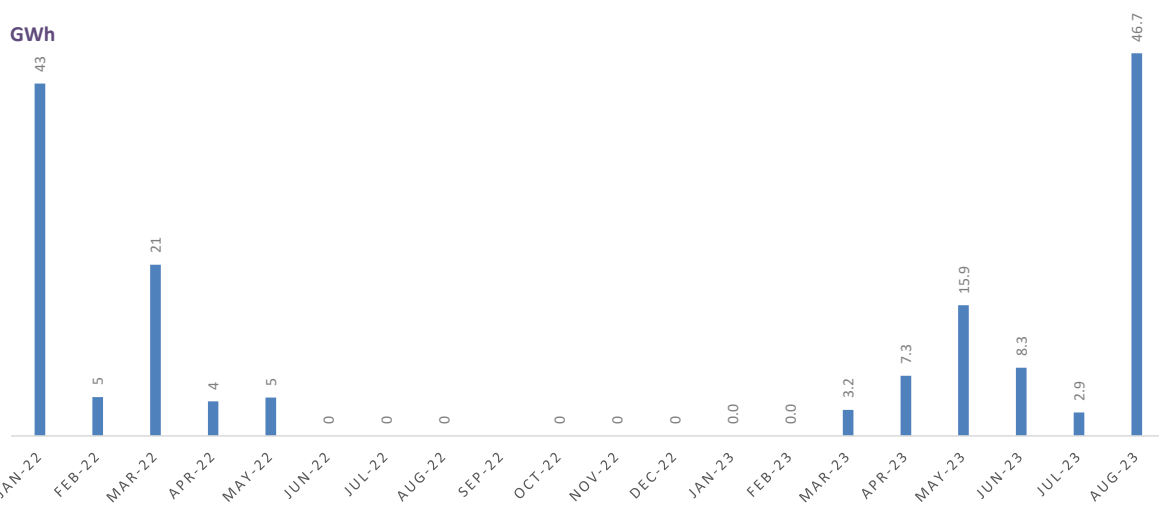
GWh



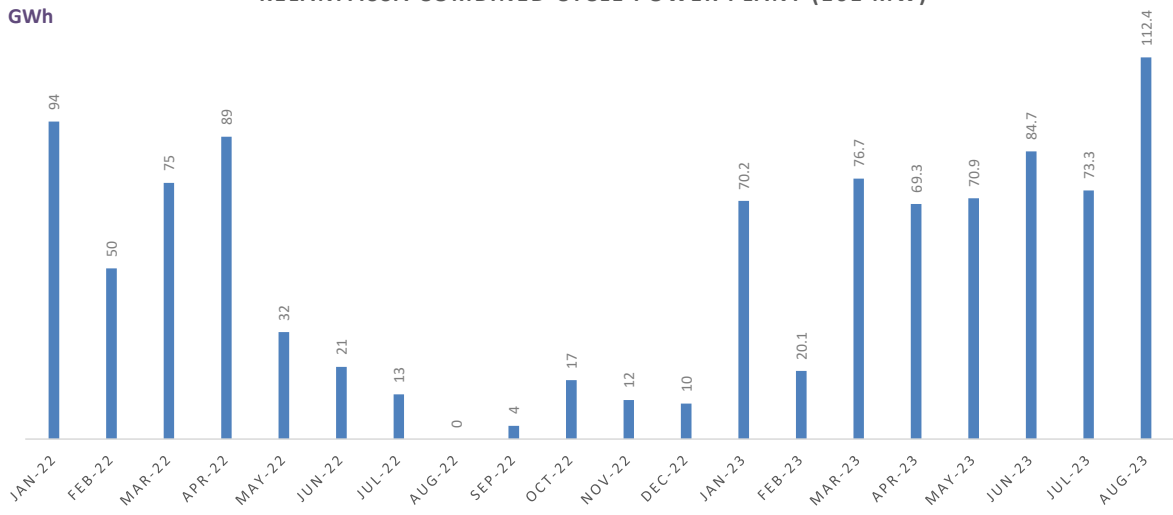
KELANITISSA SMALL GAS TURBINES (4 × 16 MW)



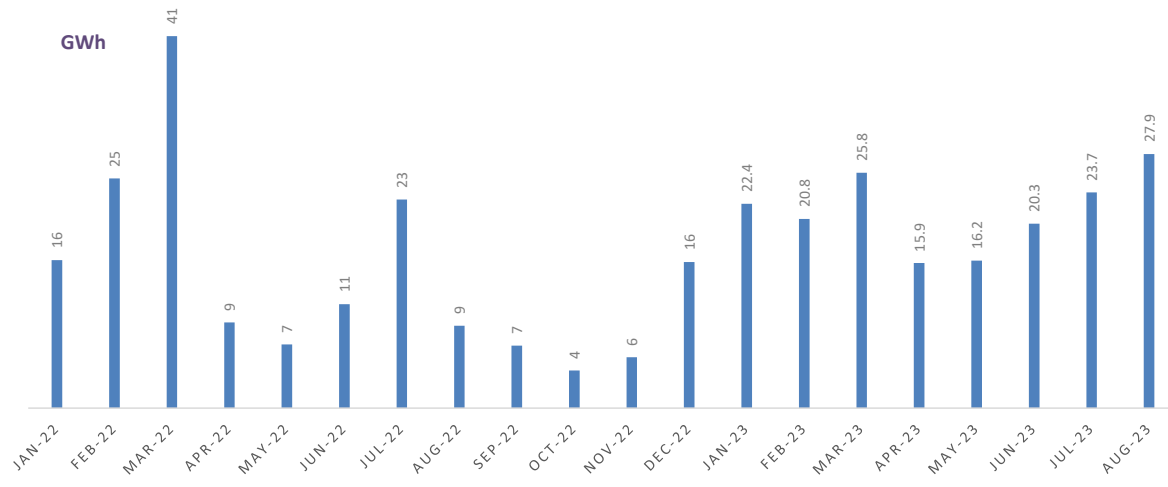
KELANITISSA GT 7 (115 MW)



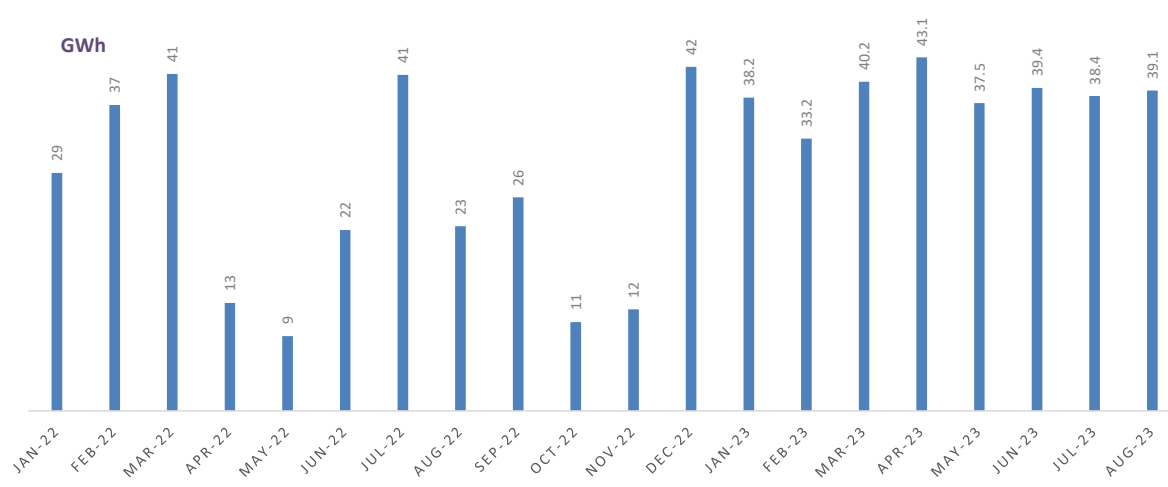
KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)



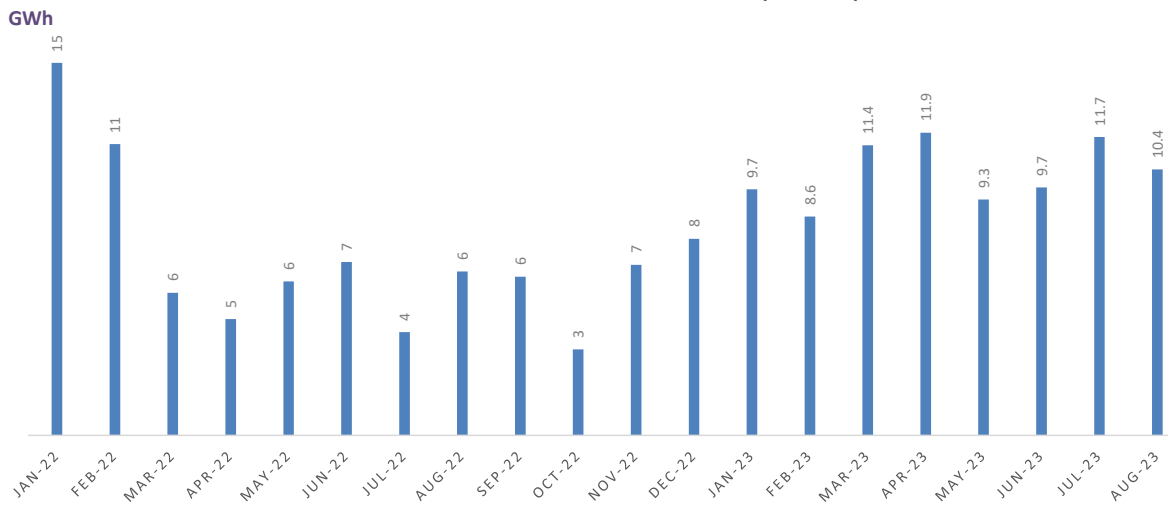
SAPUGASKANDA - A POWER STATION (80 MW)



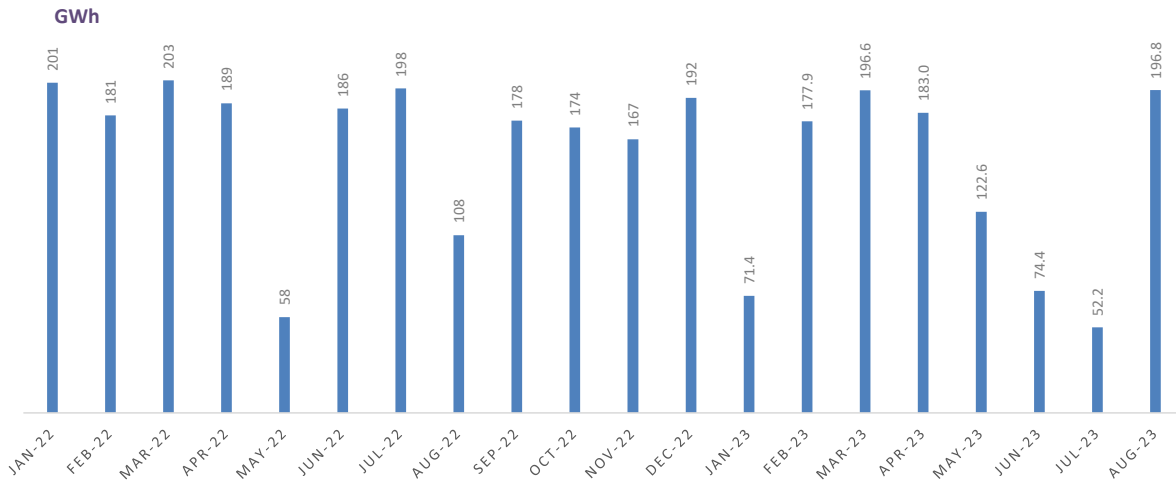
SAPUGASKANDA - B POWER STATION (80 MW)



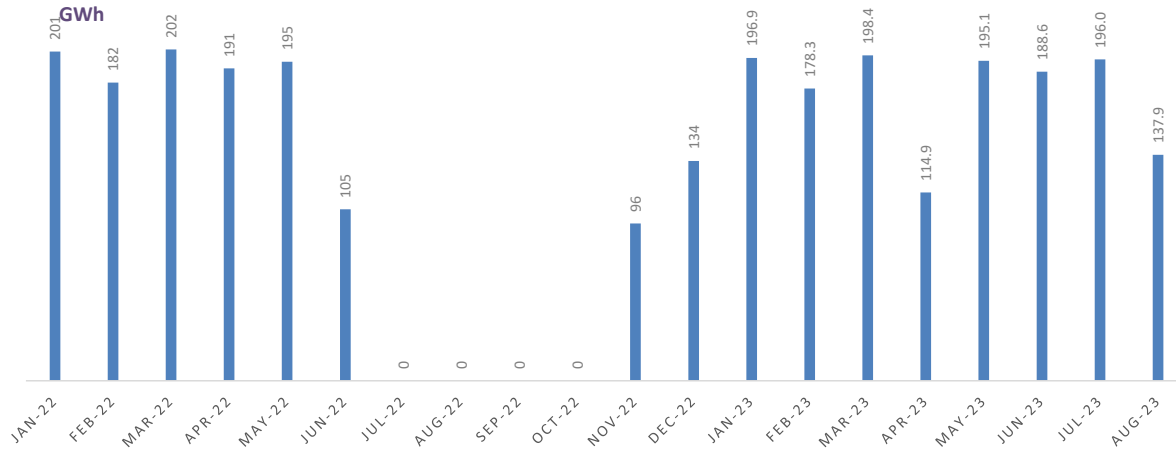
UTHURU JANANEE POWER STATION (26 MW)



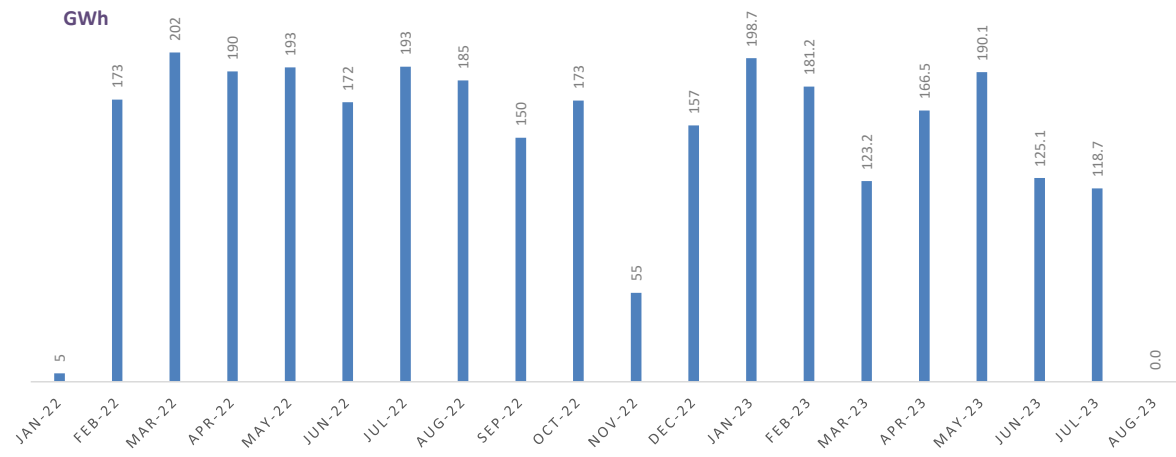
LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)



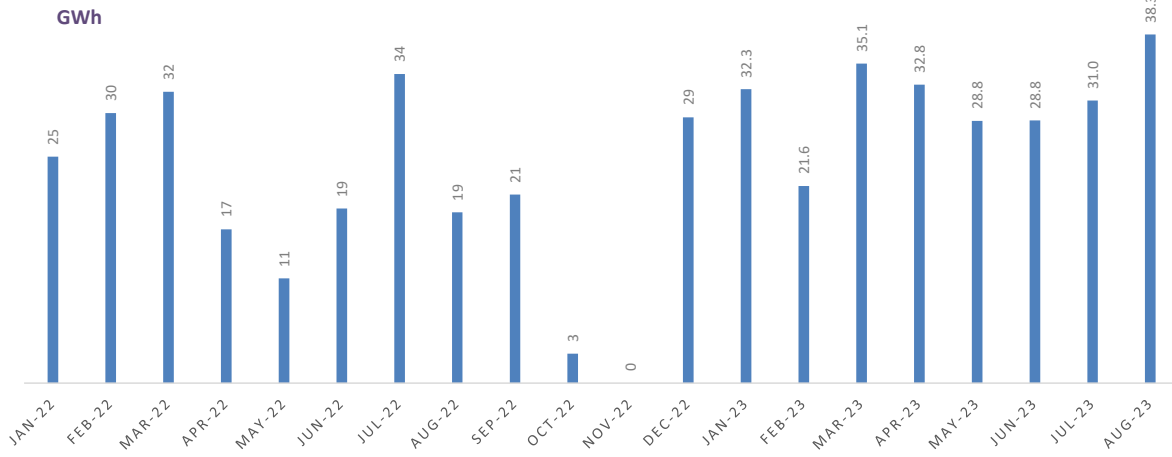
LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)



LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



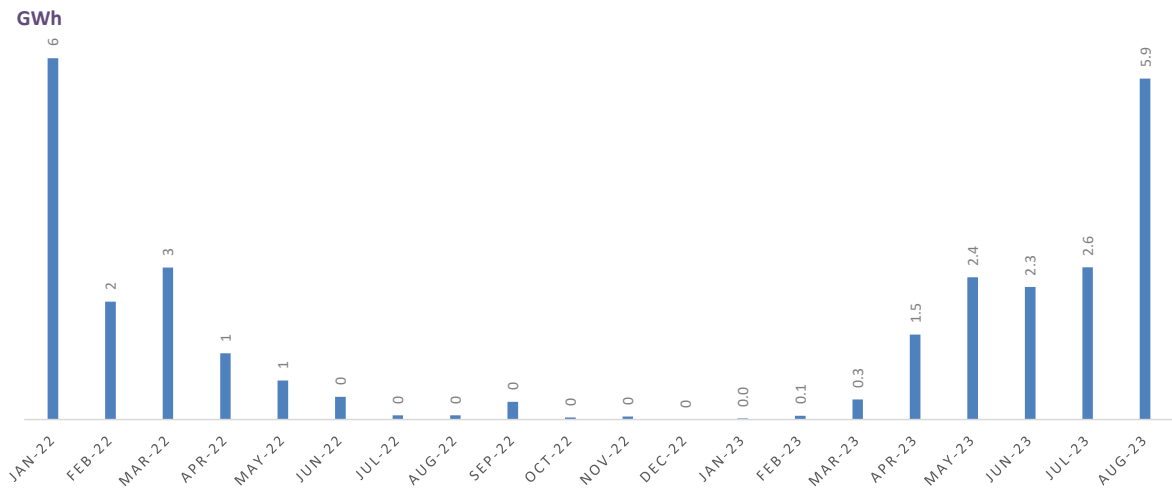
BARGE POWER STATION - CEB (60 MW)



HAMBANTOTA - CEB (30 MW)

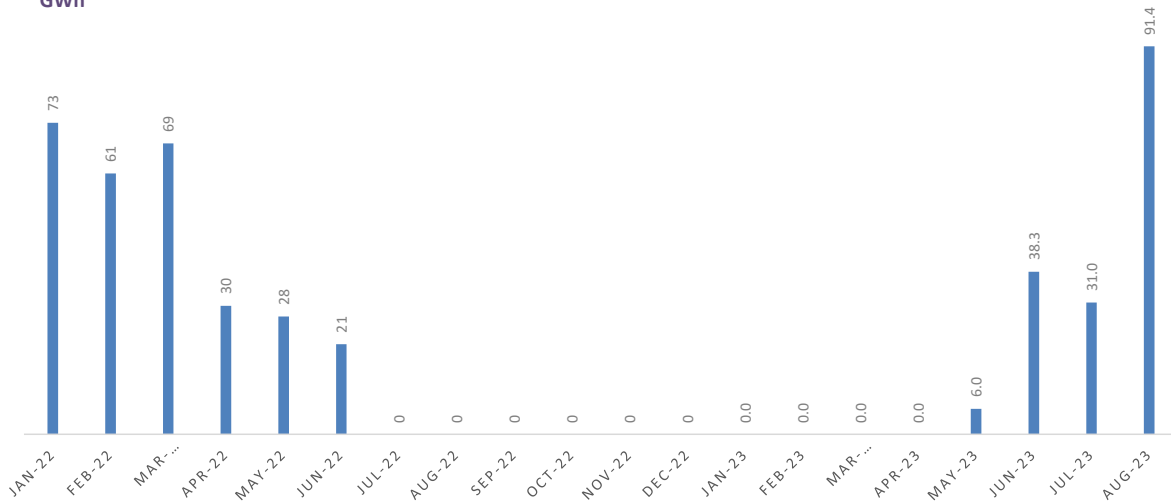


MATHUGAMA - CEB (20 MW)



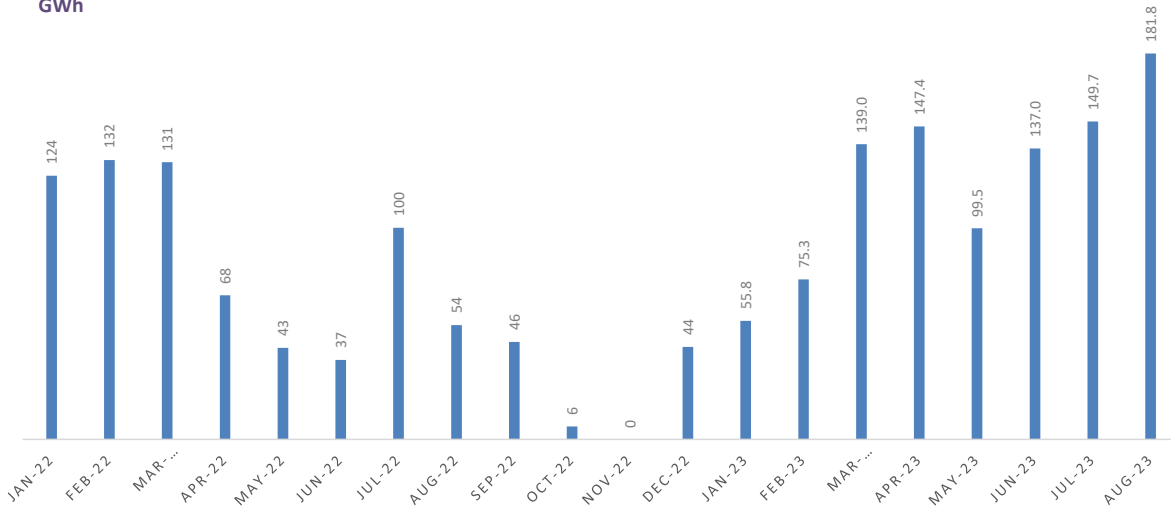
KCCPS - 02 POWER STATION (163 MW)

GWh



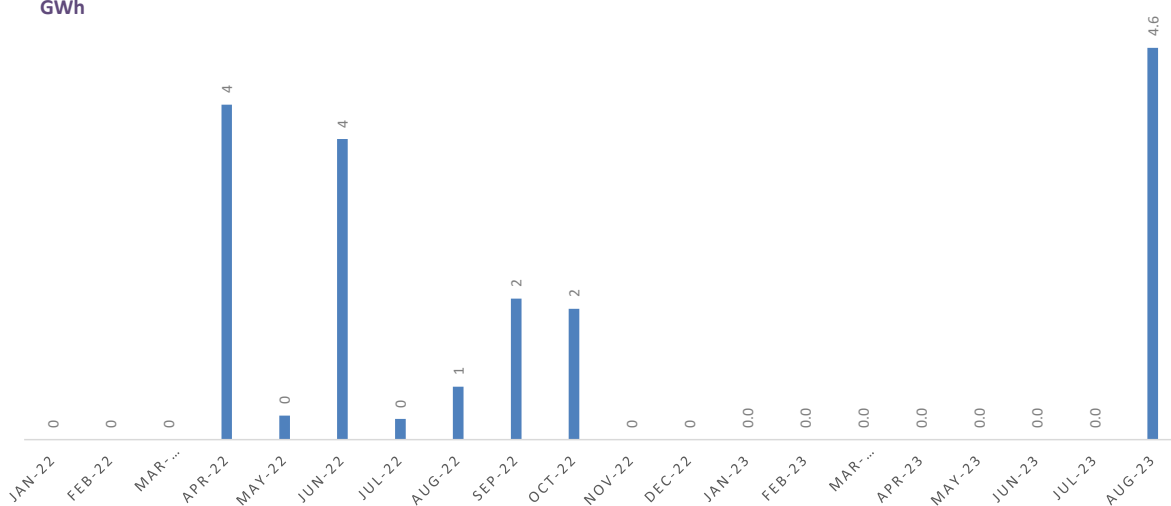
WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)

GWh



ACE - MATARA (24 MW)

GWh



3 Peak Demand

During the month;

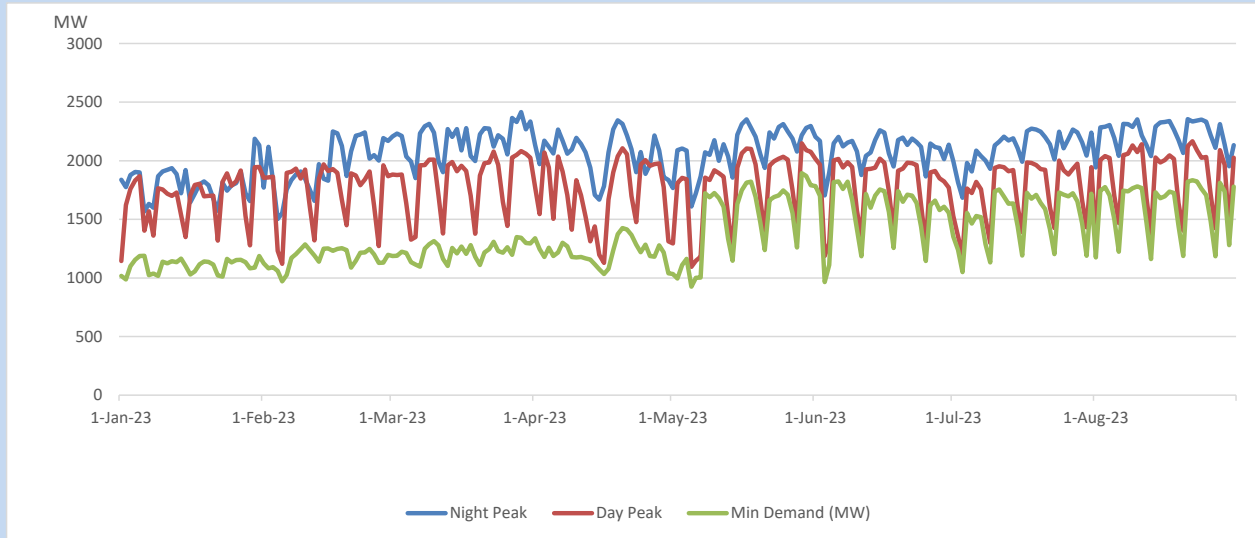
Table 05

Highest Peak Demand	2,355	MW
Lowest Peak Demand	1,942	MW
Highest Day Peak Demand	2,166	MW
Minimum Demand	1,160	MW

on 21-Aug
on 1-Aug
on 22-Aug
on 13-Aug

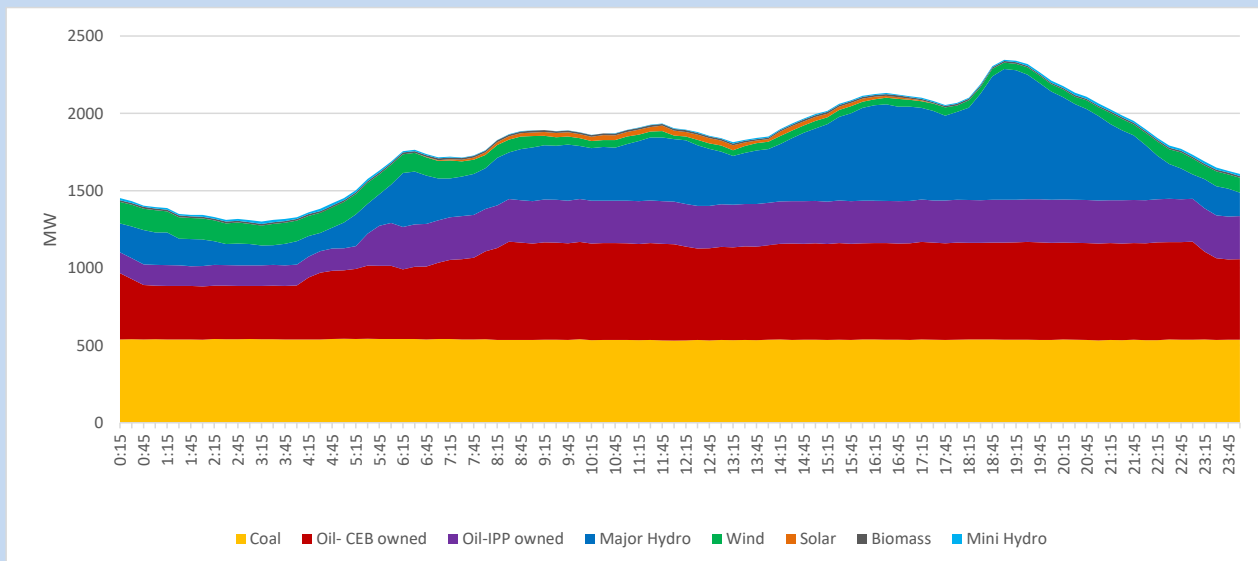
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

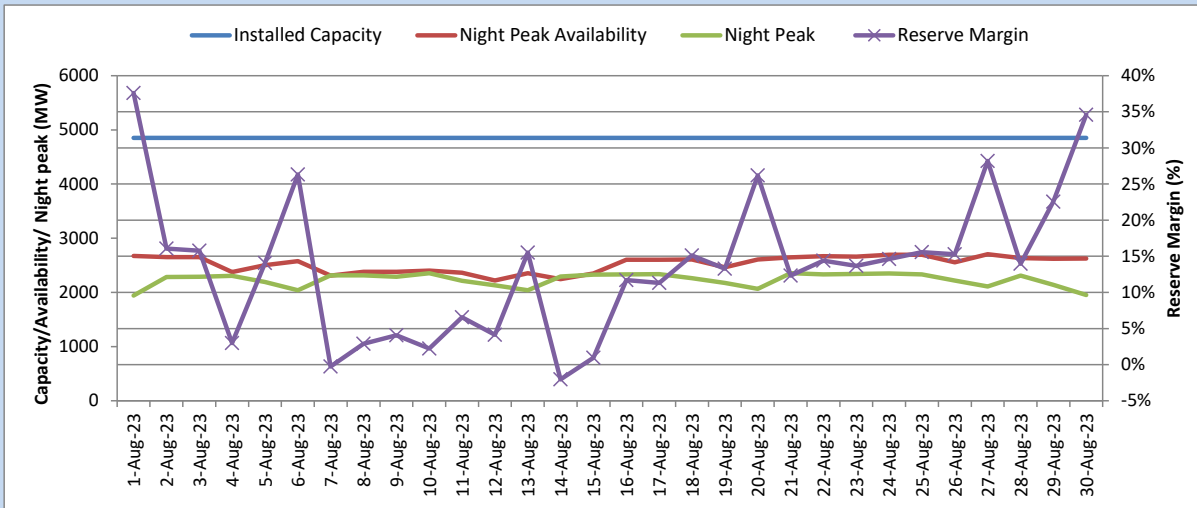


3.2 Load Curve of the Day with Highest Night Peak ,

21-Aug



3.3 Variation of Reserve Margin During Night Peak



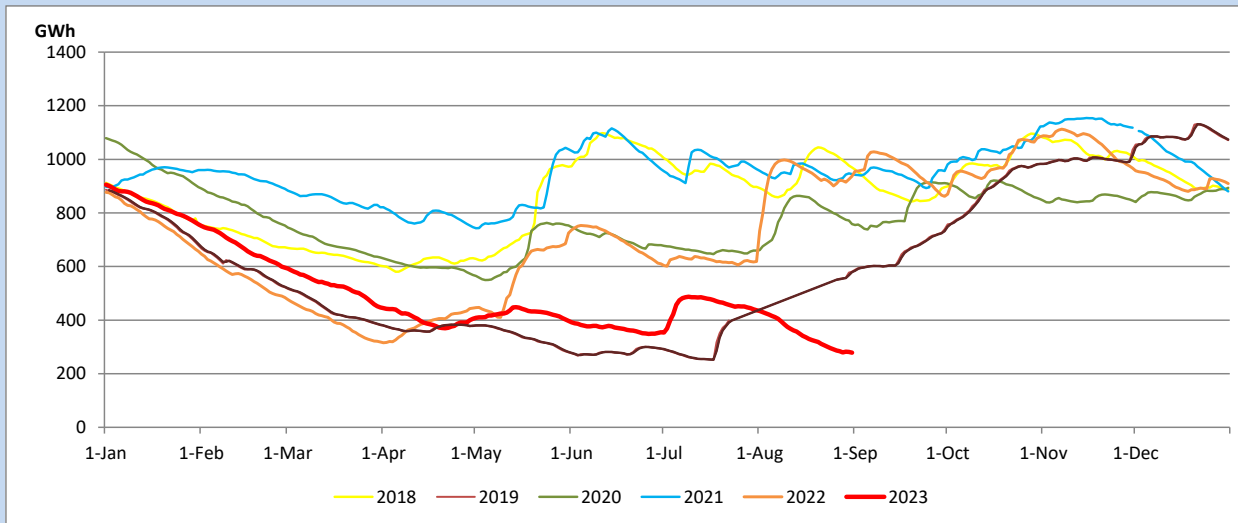
Note: Contribution from NCRE plants is not included

4 Reservoir Statistics

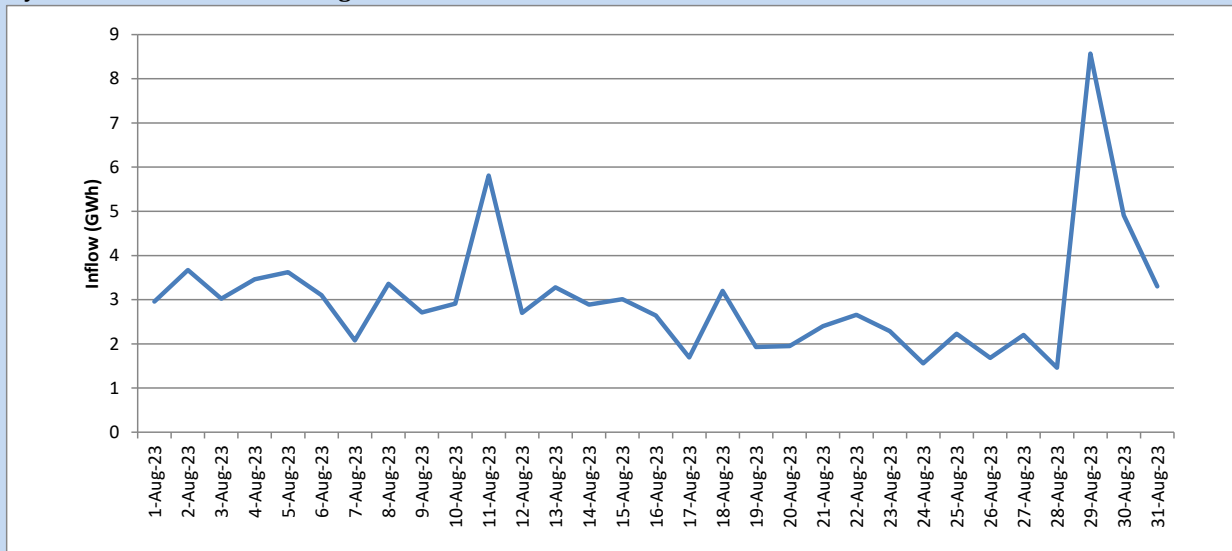
Table 05

Total Reservoir level at the beginning of the month	434.1 GWh
Total Reservoir level at the end of the month	278.5 GWh
Total Inflow	93.3 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

