

Monthly Generation Report

July-23



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

July-23

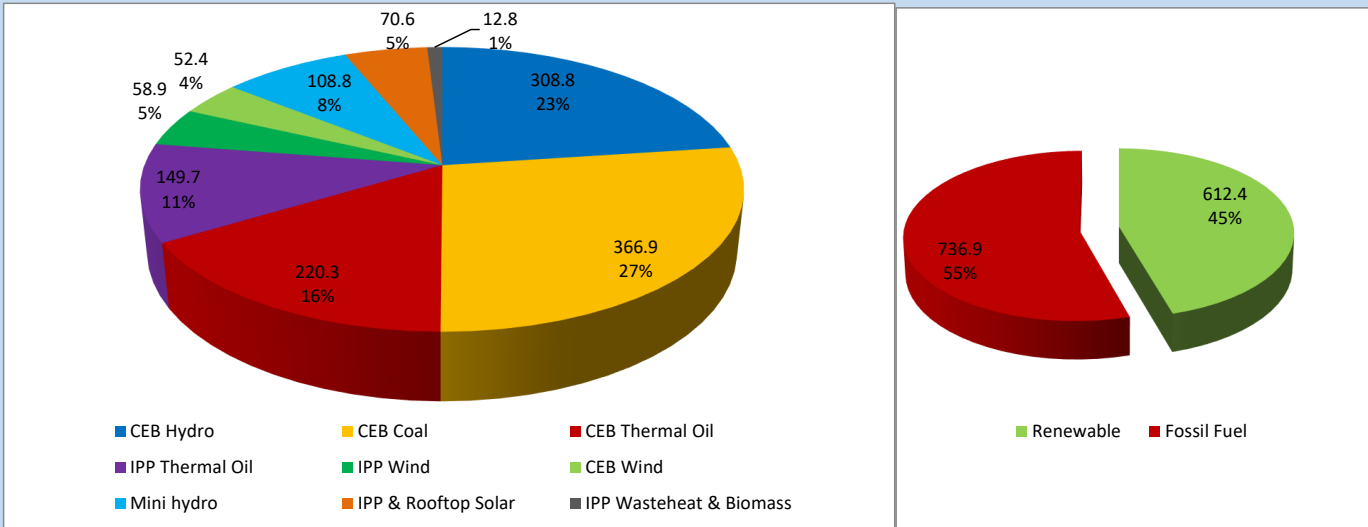


Table 01

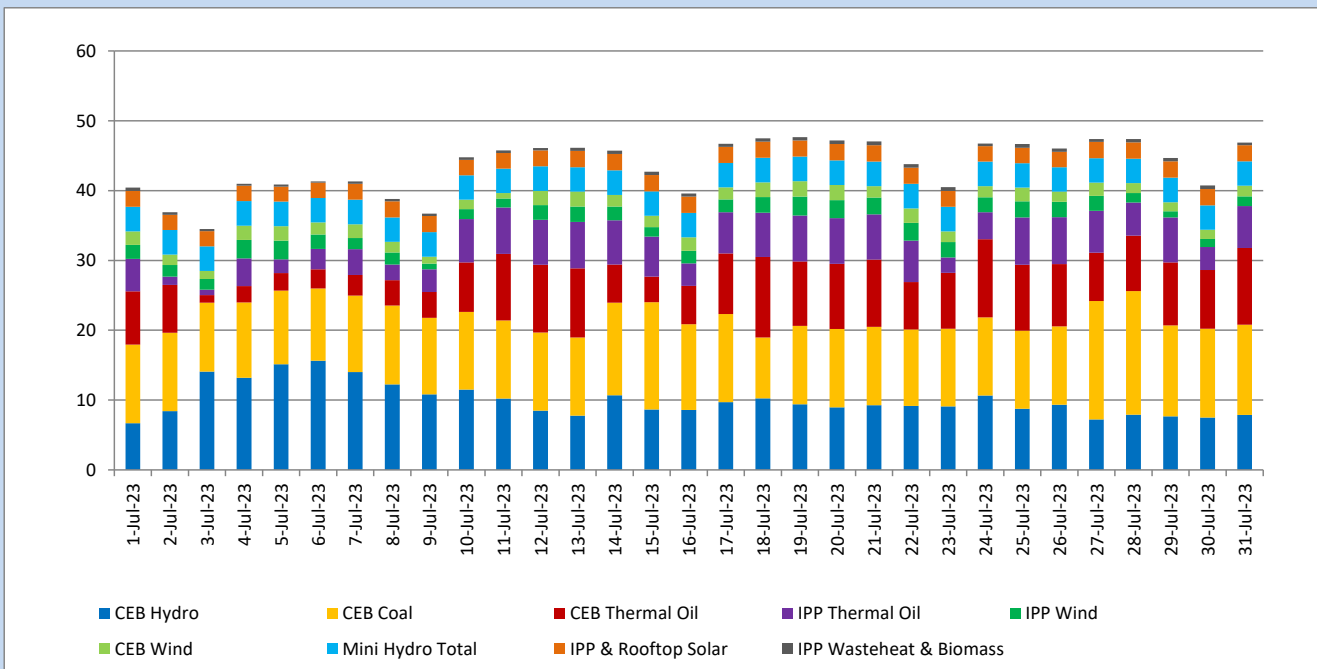
CEB Hydro	309	GWh
CEB Coal	367	GWh
CEB Thermal Oil	220	GWh
IPP Thermal Oil	150	GWh
IPP Wind	59	GWh
CEB Wind	52	GWh
Mini Hydro (Including non telemetered)	109	GWh
IPP Solar (Including estimated figures)	71	GWh
IPP Wasteheat + Biomass	13	GWh
Total Generation (Including estimated figures)	1,349	GWh

Total Generation = 1,349 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

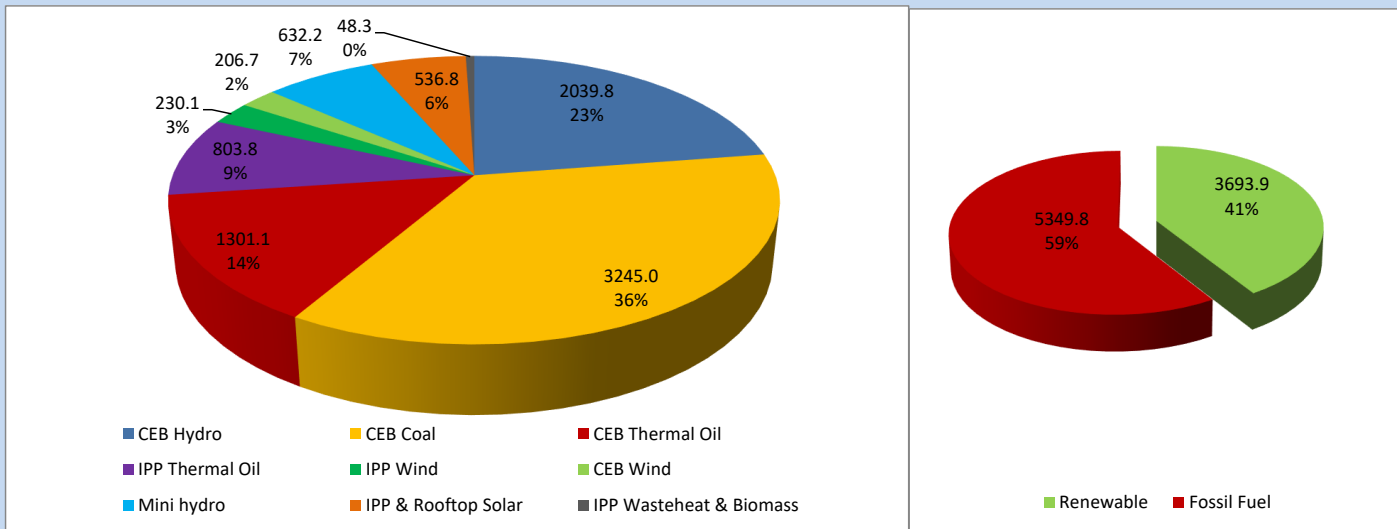


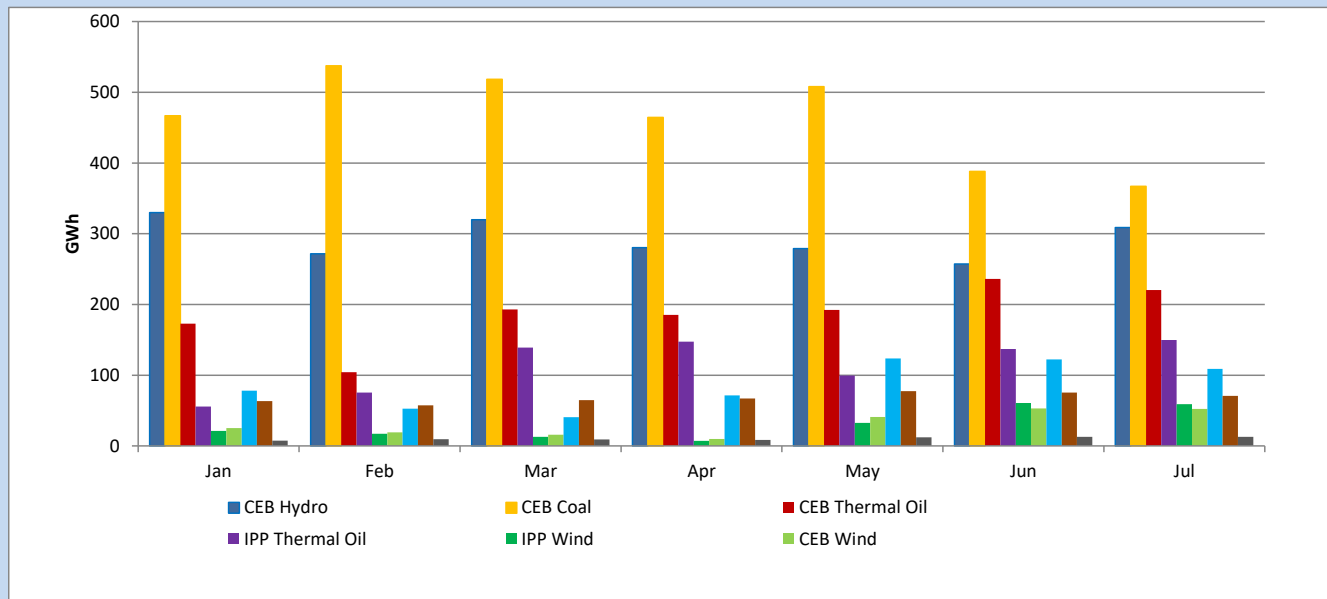
Table 02

CEB Hydro	2039.81	GWh
CEB Coal	3244.95	GWh
CEB Thermal Oil	1301.11	GWh
IPP Thermal Oil	803.79	GWh
IPP Wind	230.10	GWh
CEB Wind	206.70	GWh
Mini Hydro (Including non telemetered)	632.16	GWh
IPP Solar (Including estimated figures)	536.83	GWh
IPP Wasteheat + Biomass	48.26	GWh
Total Generation (Including estimated figures)	9043.72	GWh

Table 03

	Installed Capacity (MW)
CEB Hydro	1409
CEB Coal	810
CEB Thermal Oil	781
IPP Thermal Oil (West Coast)	270
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

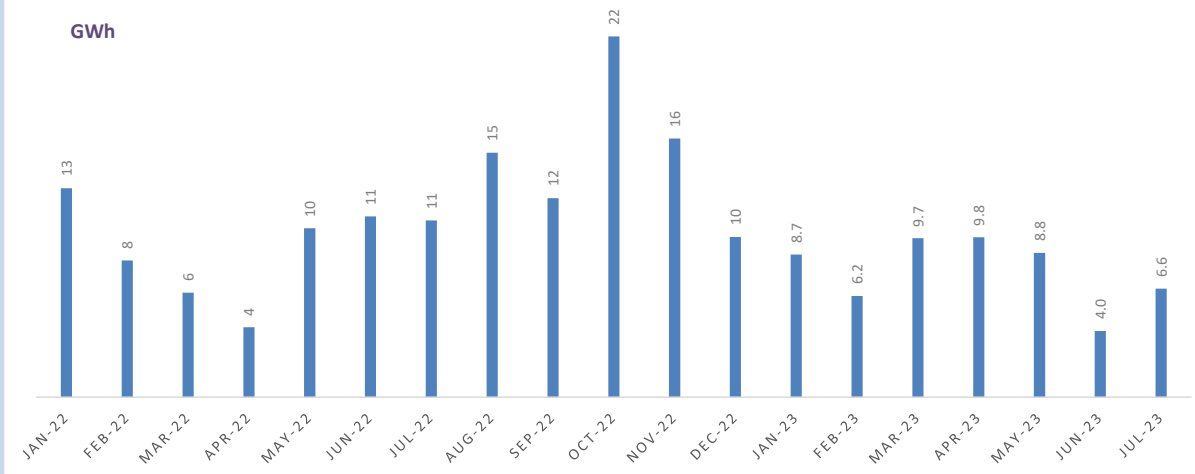
July-23

Table 04

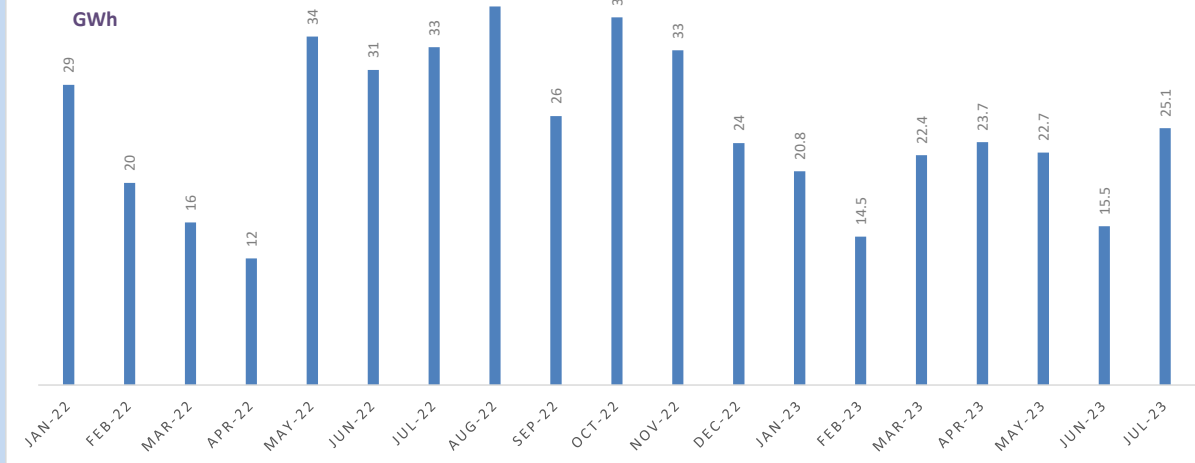
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	6,611	17.8%
Old Laxapana	54	25,053	62.4%
Canyon	60	6,395	14.3%
New Laxapana	100	33,315	44.8%
Polpitiya	90	34,747	51.9%
Broadlands	35	10,382	39.9%
Kotmale	201	27,420	18.3%
Victoria	225	10,045	6.0%
Randenigala	114	28,145	33.2%
Rantambe	50	13,355	35.9%
Ukuwela	37	18,403	66.9%
Bowatenna	40	3,255	10.9%
Upper Kotmale	150	40,277	36.1%
Nilambe	3	474	21.2%
Samanalawewa	120	19,607	22.0%
Kukule	75	28,405	50.9%
Inginiyagala	11	2,941	35.9%
Udawalawe	6	16	0.4%
Puttalam Coal I	270	52,176	26.0%
Puttalam Coal II	270	196,036	97.6%
Puttalam Coal III	270	118,677	59.1%
KPS Small GTs	64	0	0.0%
KPS GT 7	115	2,854	3.3%
KCCP	161	73,262	61.2%
Sapugaskanda A	70	23,676	45.5%
Sapugaskanda B	70	38,405	73.7%
Uthura Janani	26	11,710	60.5%
Barge CEB	60	31,024	69.5%
CEB - Hambantota	30	5,713	25.6%
CEB - Mathugama	20	2,619	17.6%
KCCPS -2	163	31,031	25.6%
West Coast	270	149,692	74.5%

2.3 Generation of Major Power Plants From Last Year

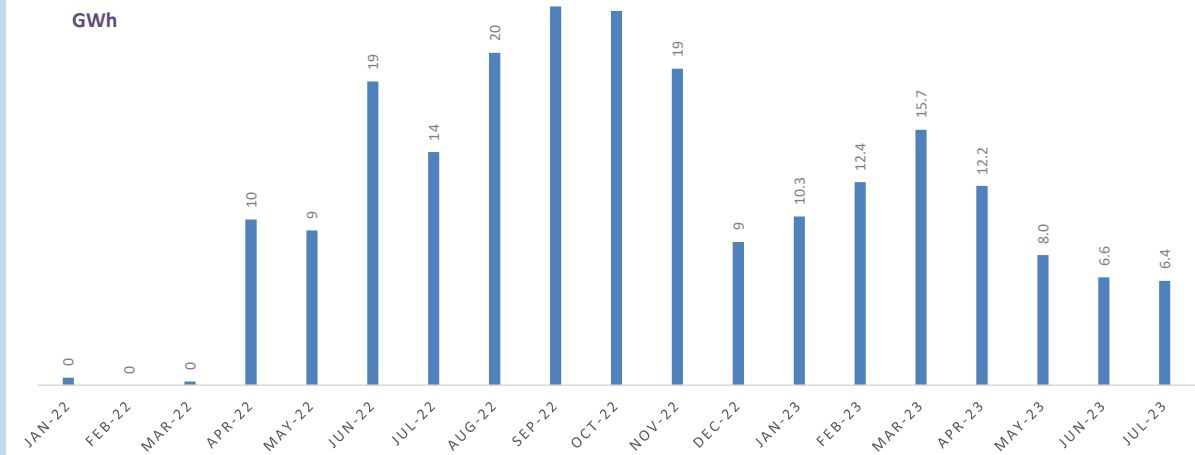
WIMALASURENDRA POWER STATION (53.5MW)



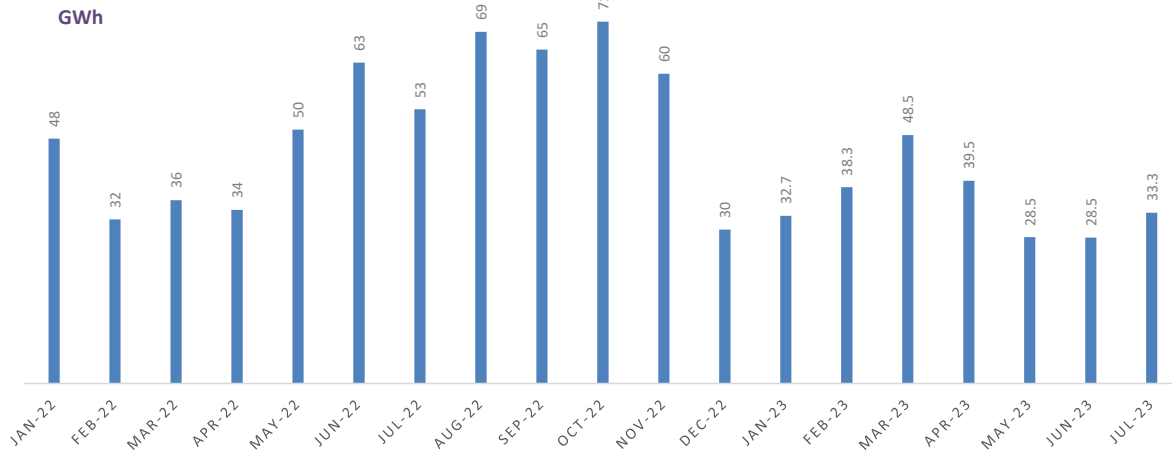
OLD LAXAPANA POWER STATION (53.5MW)



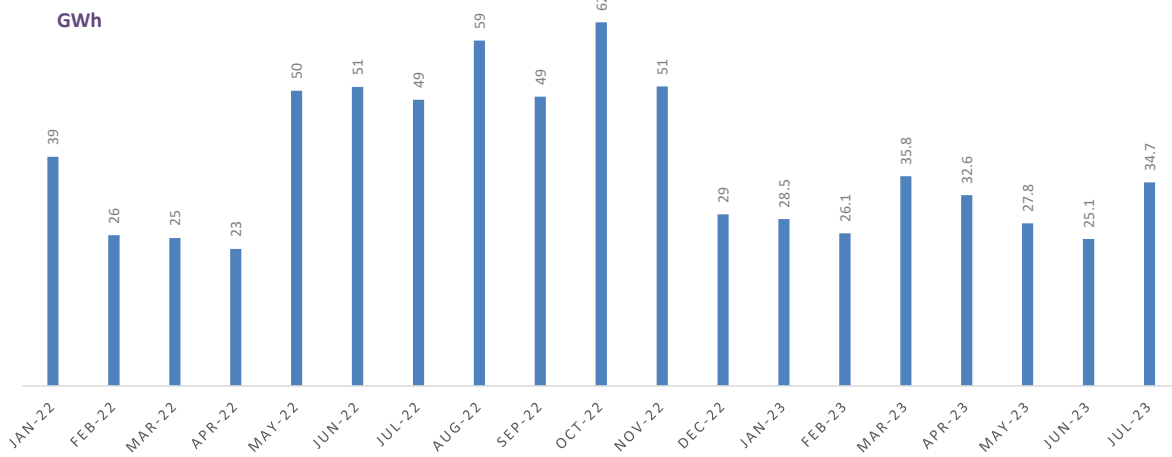
CANYON POWER STATION (60 MW)



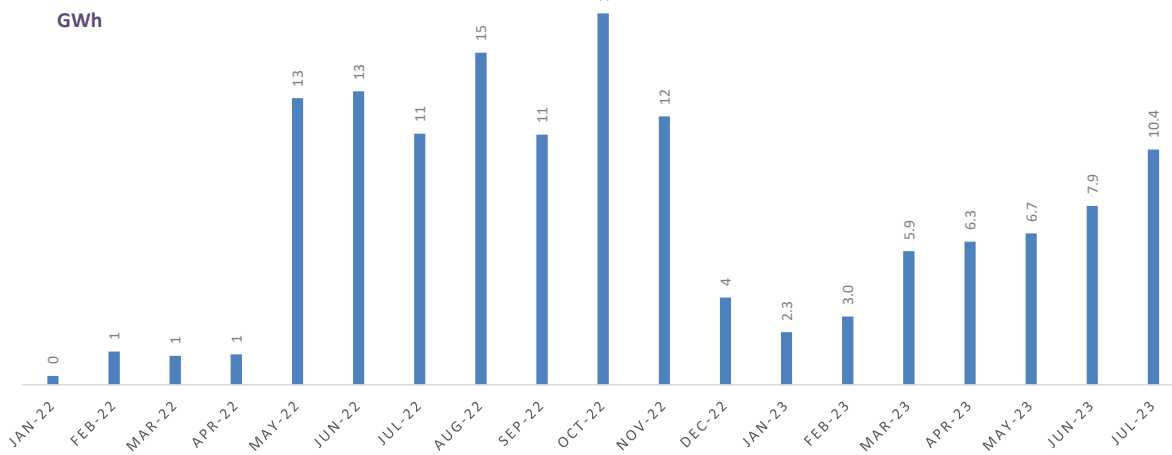
NEW LAXAPANA POWER STATION (115 MW)



POLPITIYA POWER STATION (90 MW)

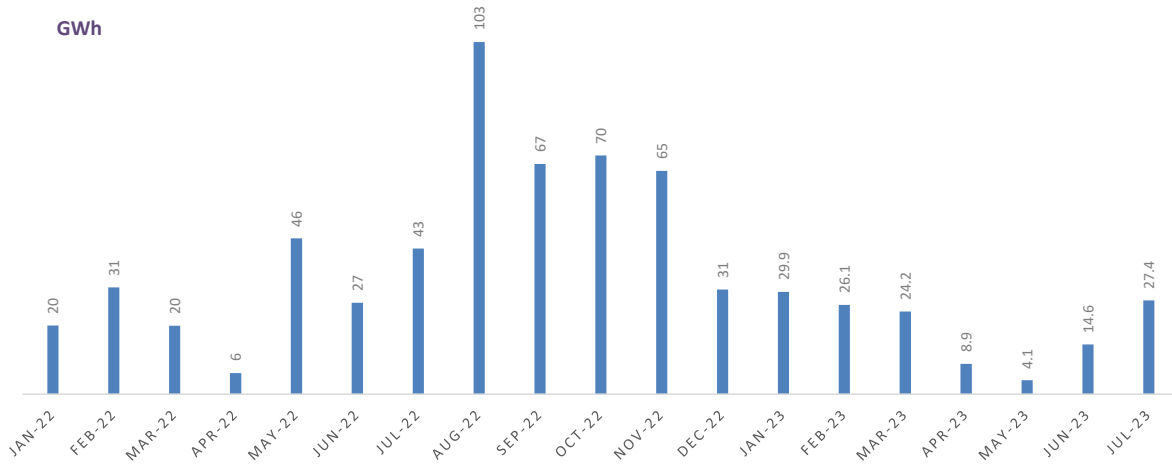


BROADLANDS POWER STATION (35 MW)



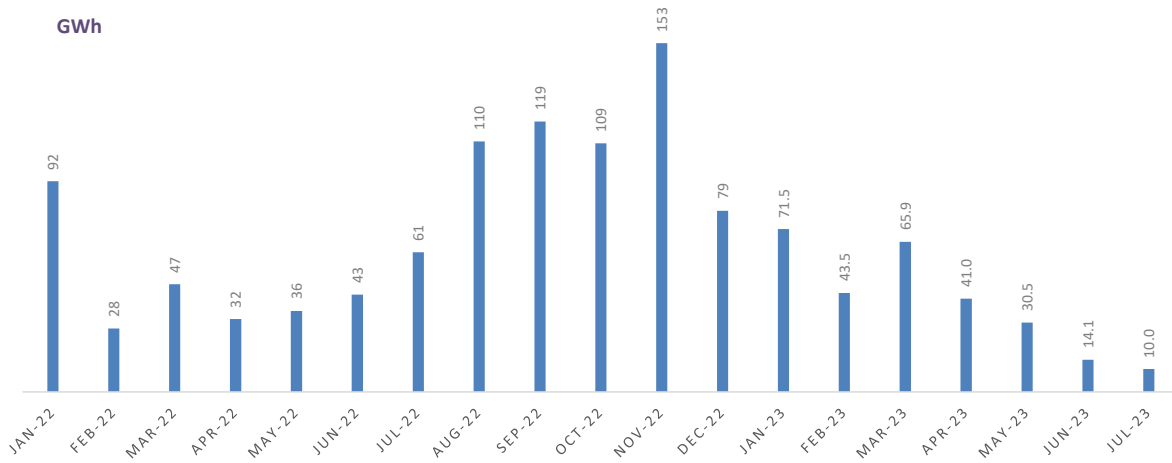
KOTMALE POWER STATION (201 MW)

GWh



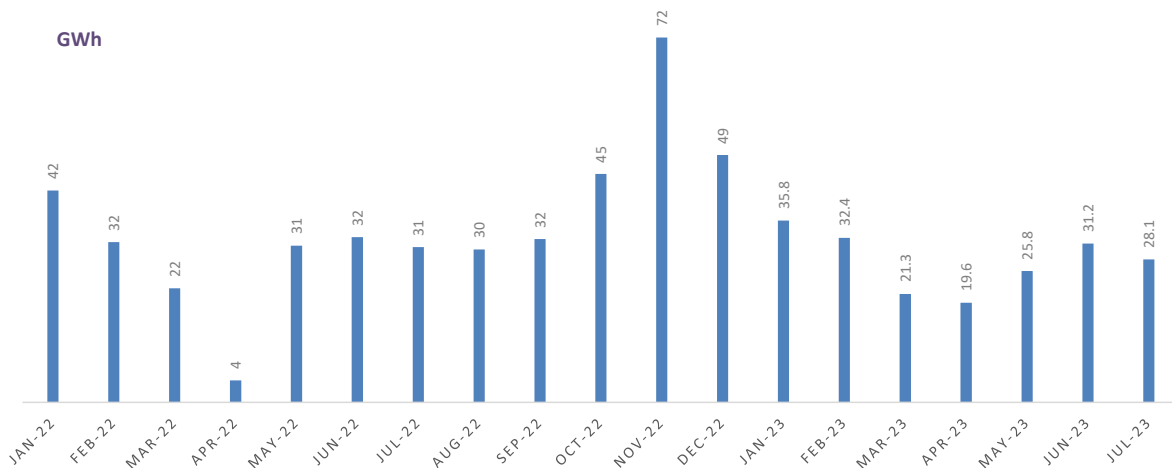
VICTORIA POWER STATION (225 MW)

GWh

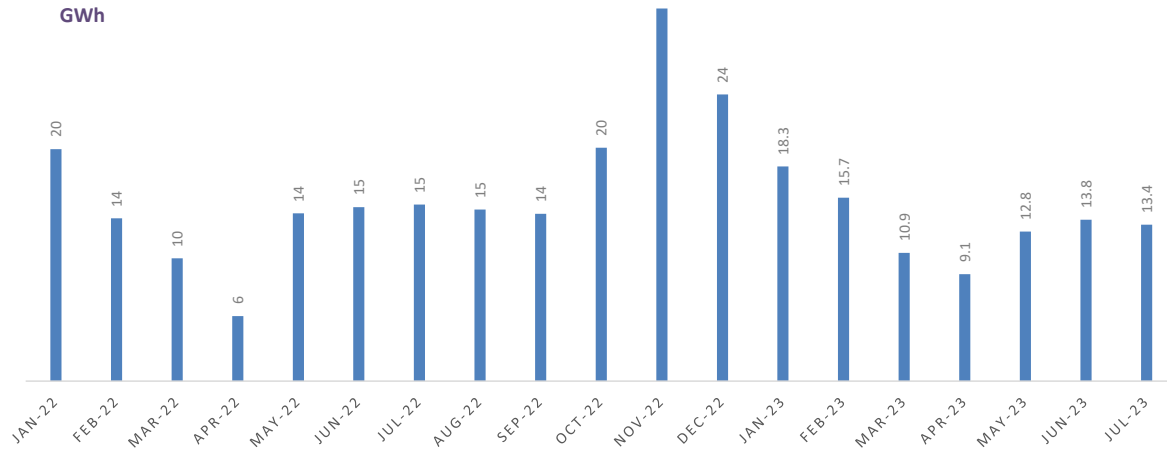


RANDENIGALA POWER STATION (114 MW)

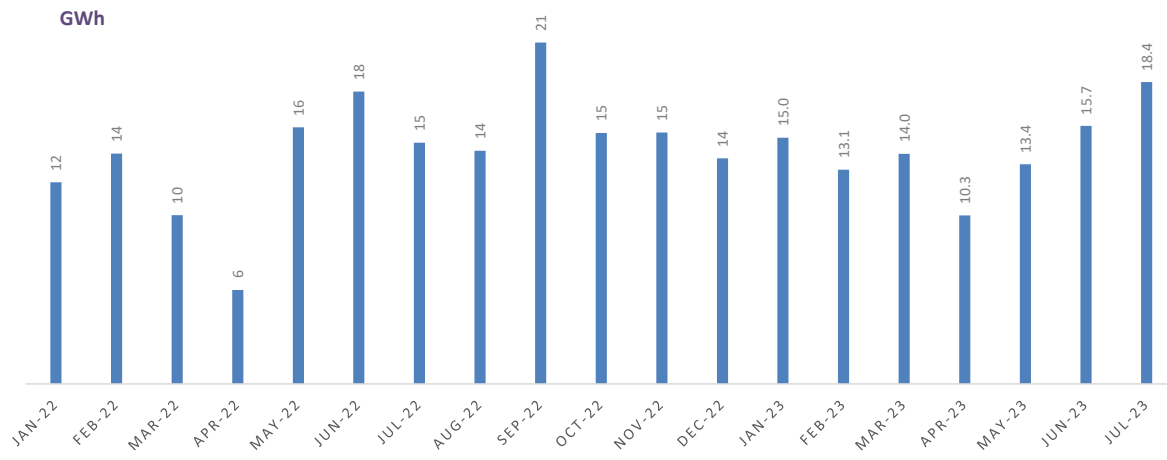
GWh



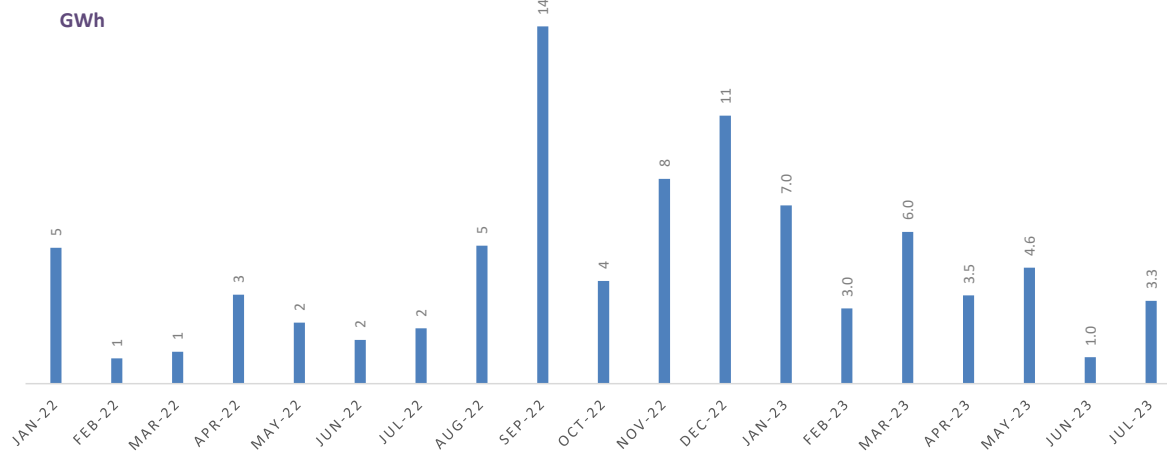
RANTAMBE POWER STATION (50 MW)



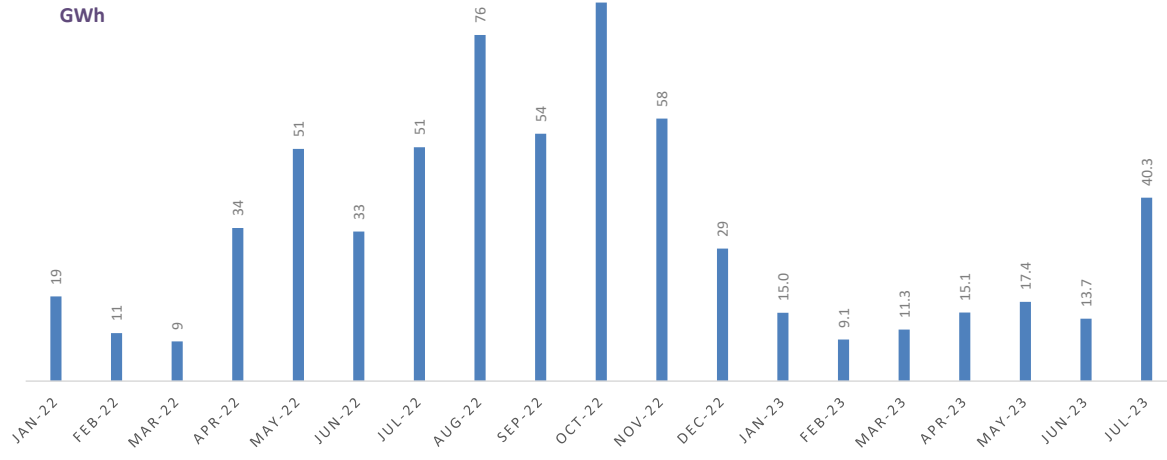
UKUWELA POWER STATION (37 MW)



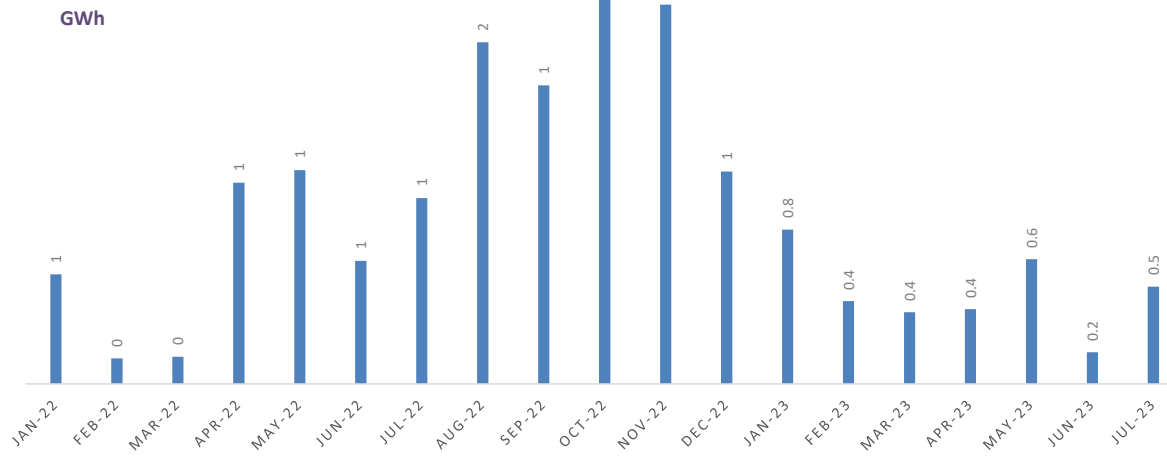
BOWATHENNA POWER STATION (40 MW)



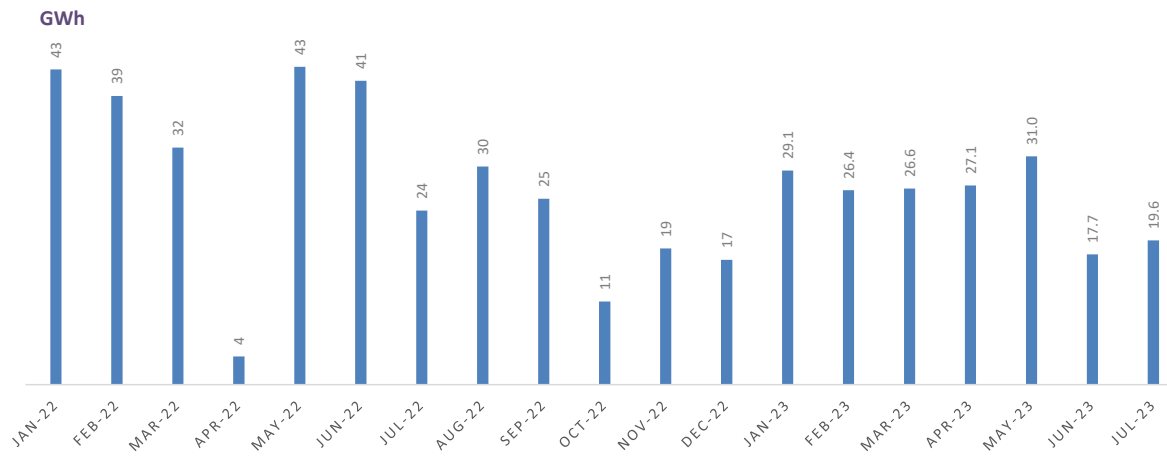
UPPER KOTMALE POWER STATION (150 MW)



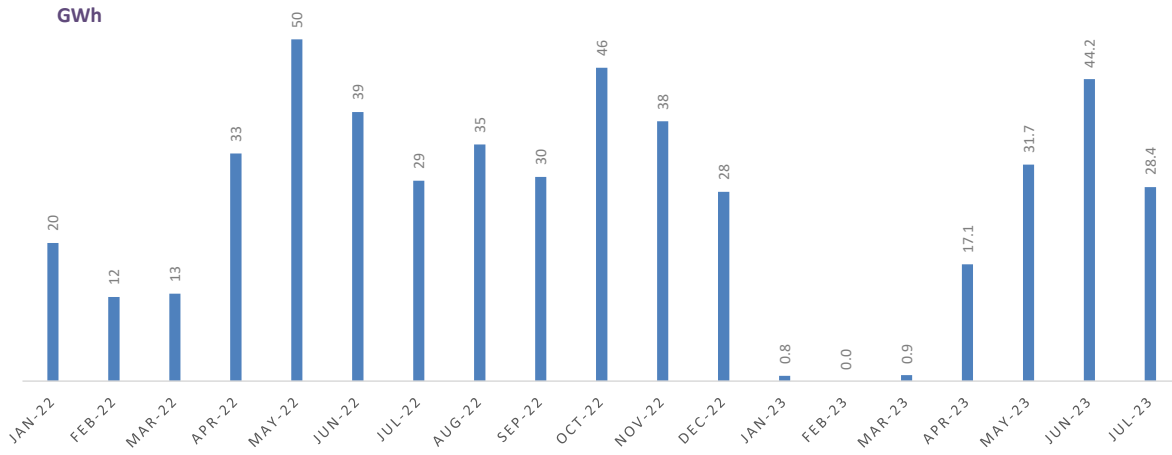
NILLAMBE POWER STATION (3 MW)



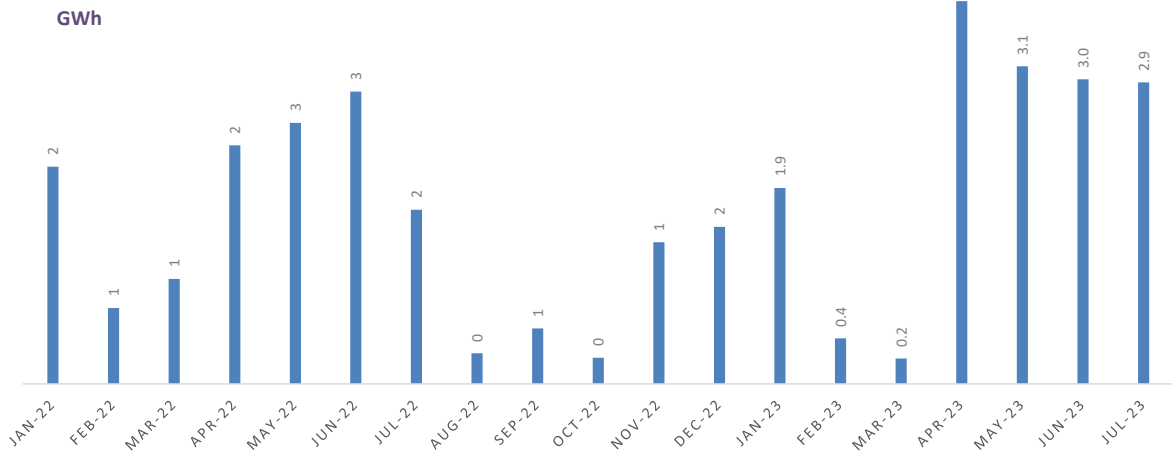
SAMANALAWEWA POWER STATION (120 MW)



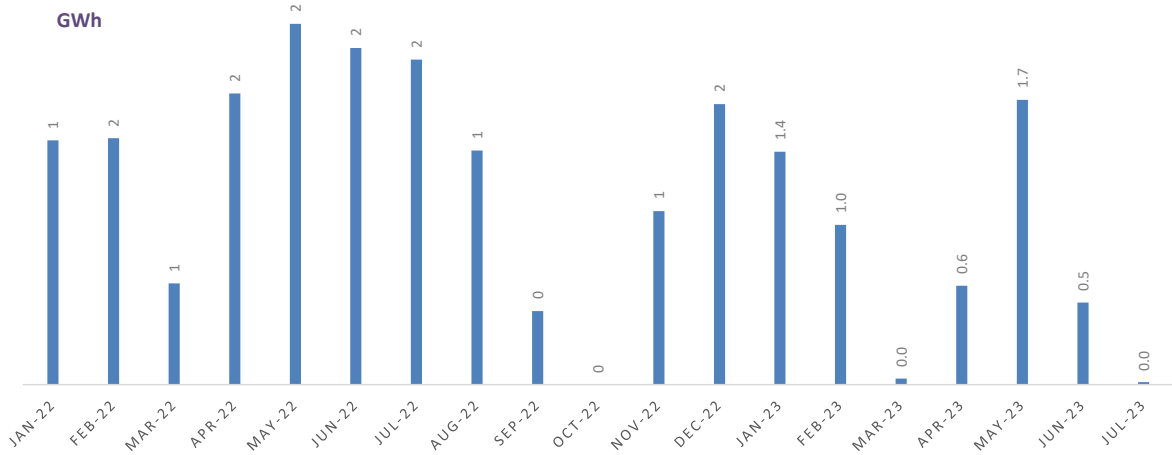
KUKULE POWER STATION (75 MW)



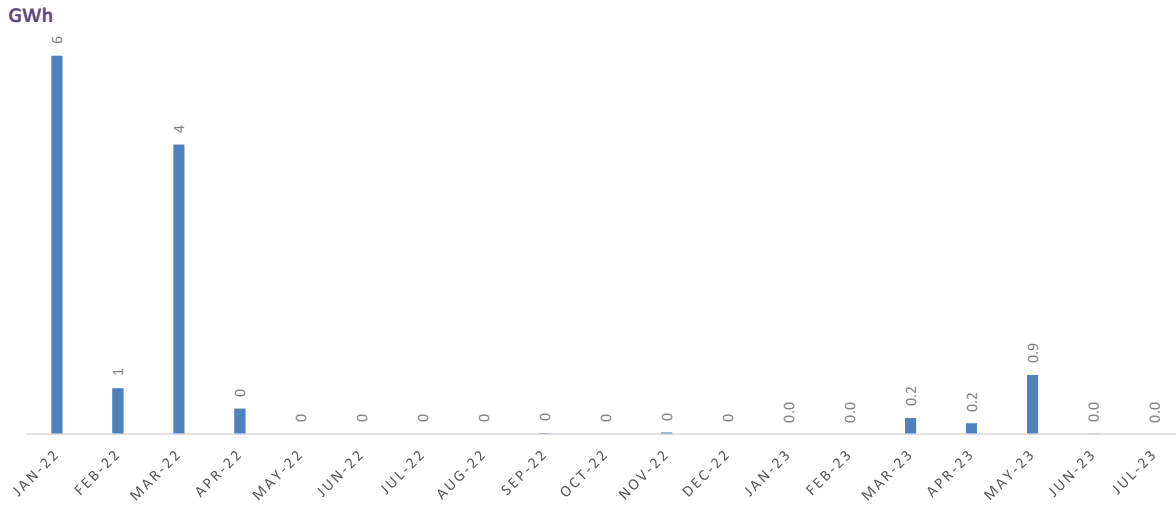
INGINIYAGALA POWER STATION (11 MW)



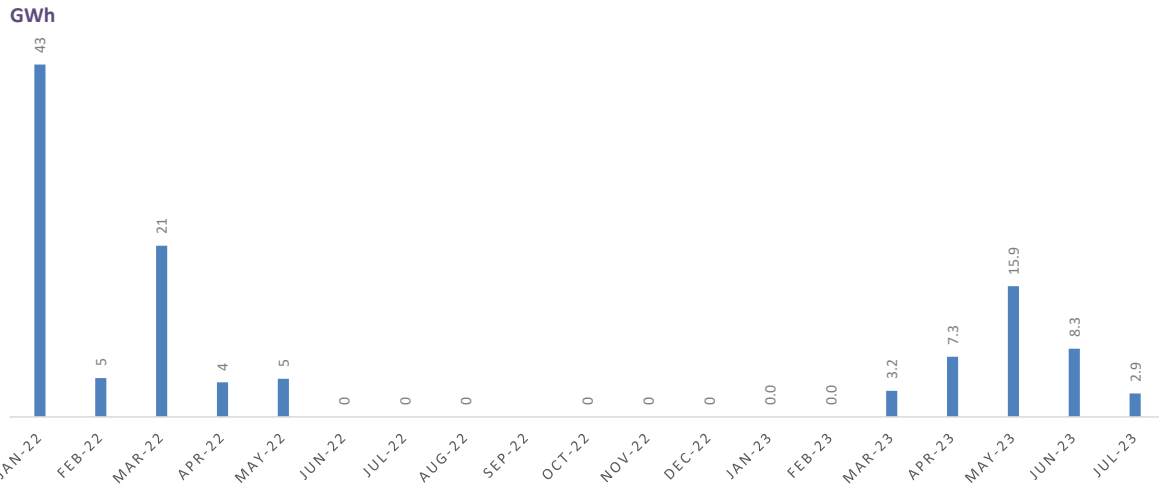
UDAWALAWE POWER STATION (6 MW)



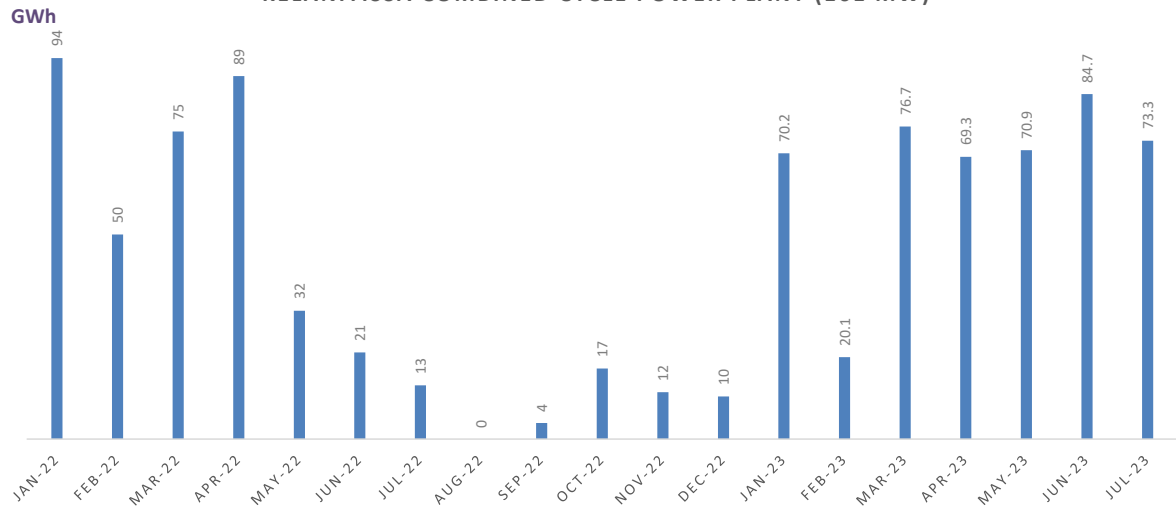
KELANITISSA SMALL GAS TURBINES (4 × 16 MW)



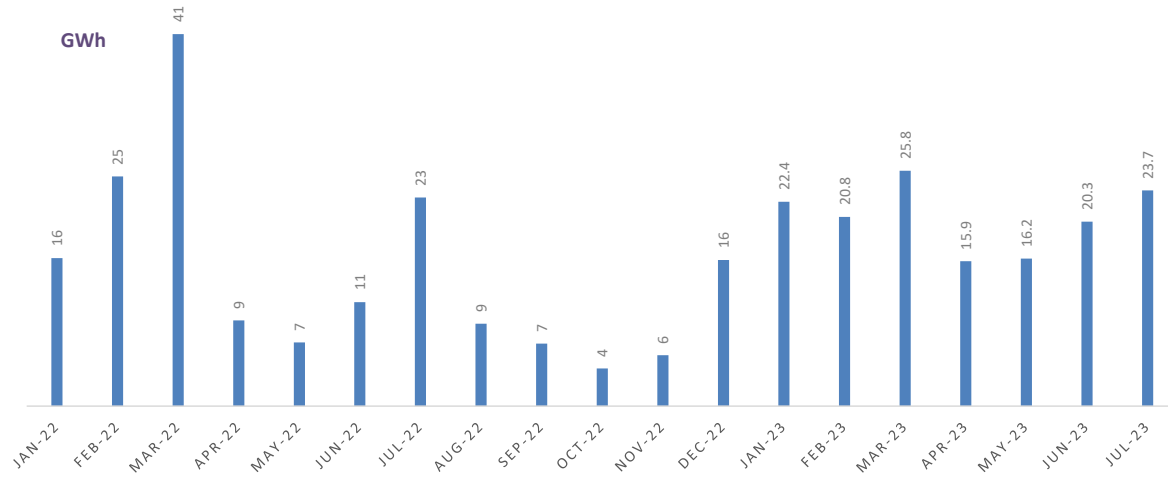
KELANITISSA GT 7 (115 MW)



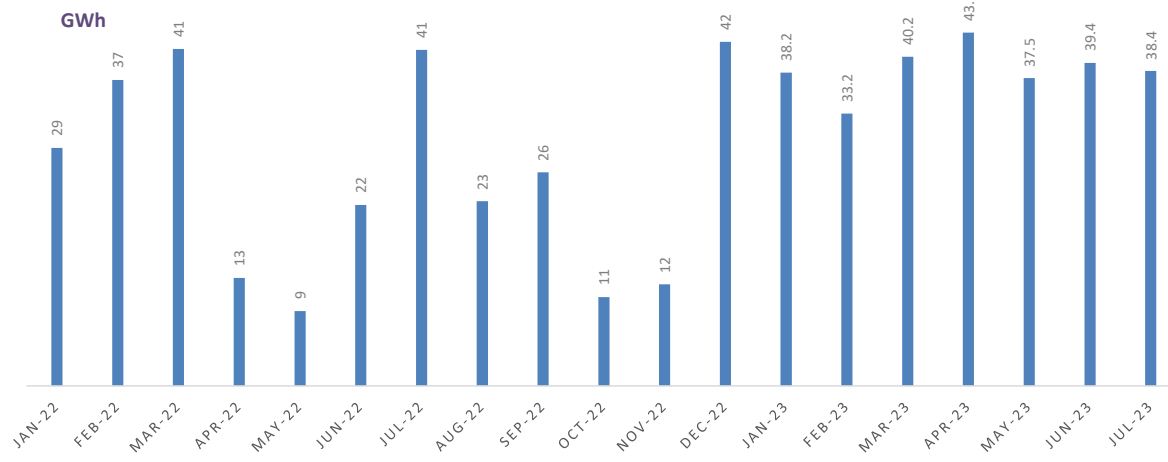
KELANITISSA COMBINED CYCLE POWER PLANT (161 MW)



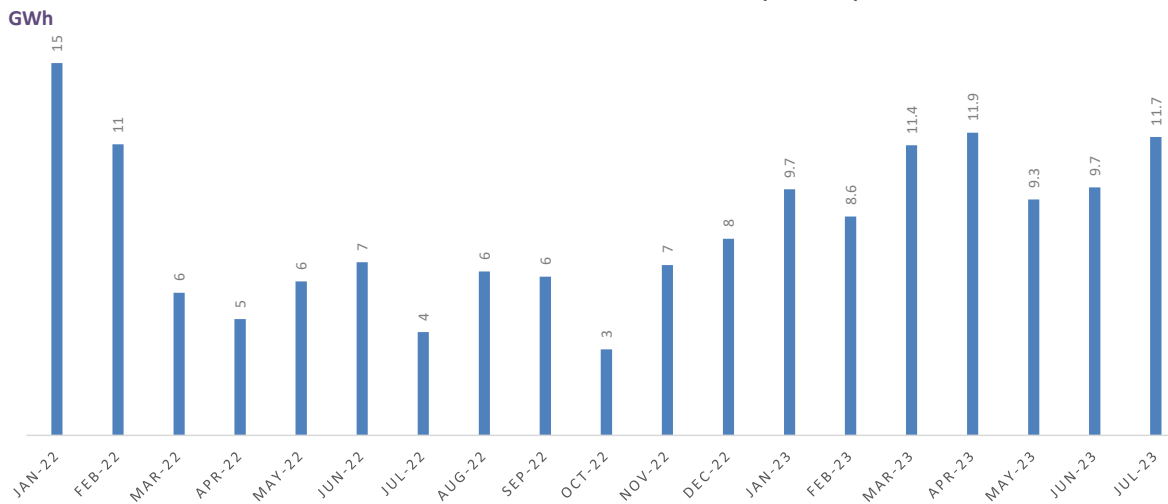
SAPUGASKANDA - A POWER STATION (80 MW)



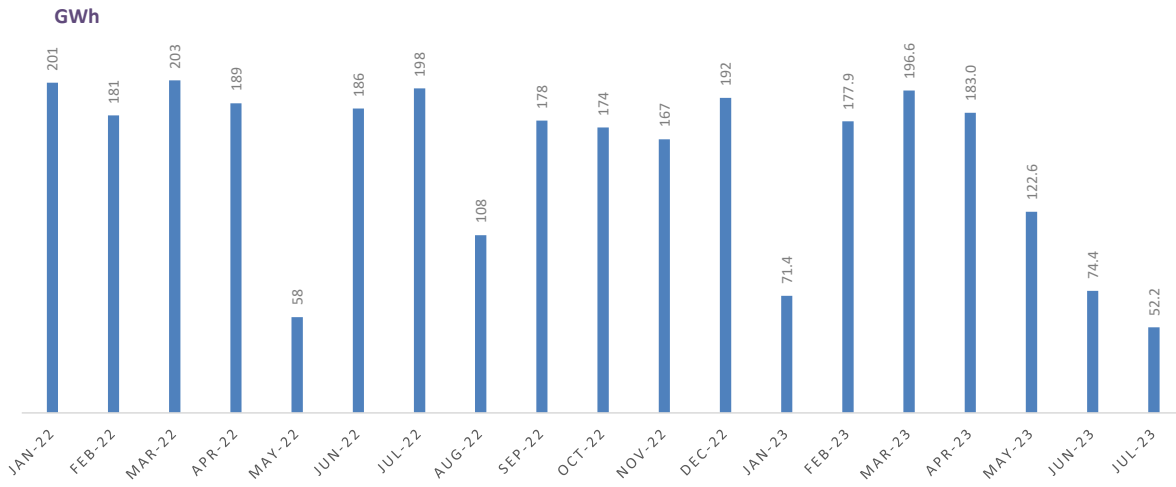
SAPUGASKANDA - B POWER STATION (80 MW)



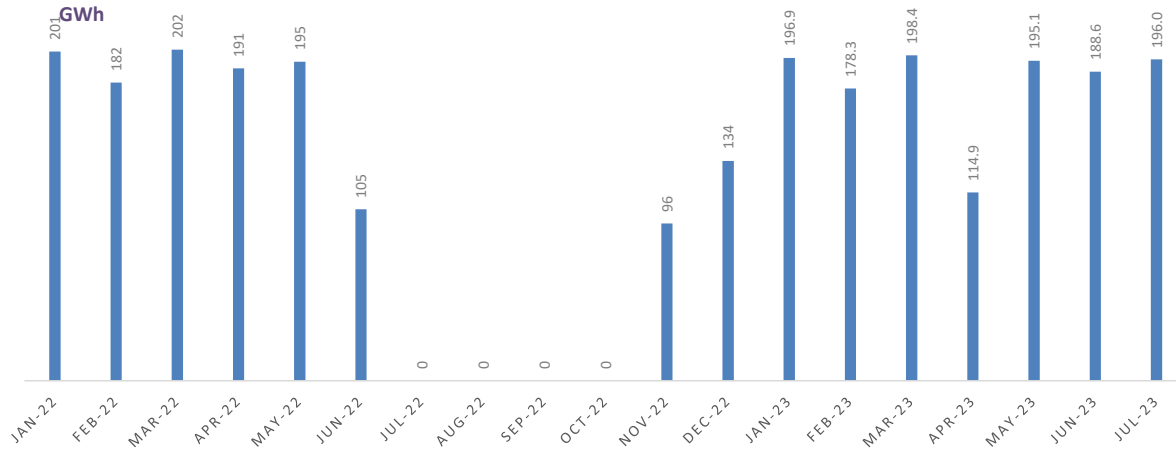
UTHURU JANANEE POWER STATION (26 MW)



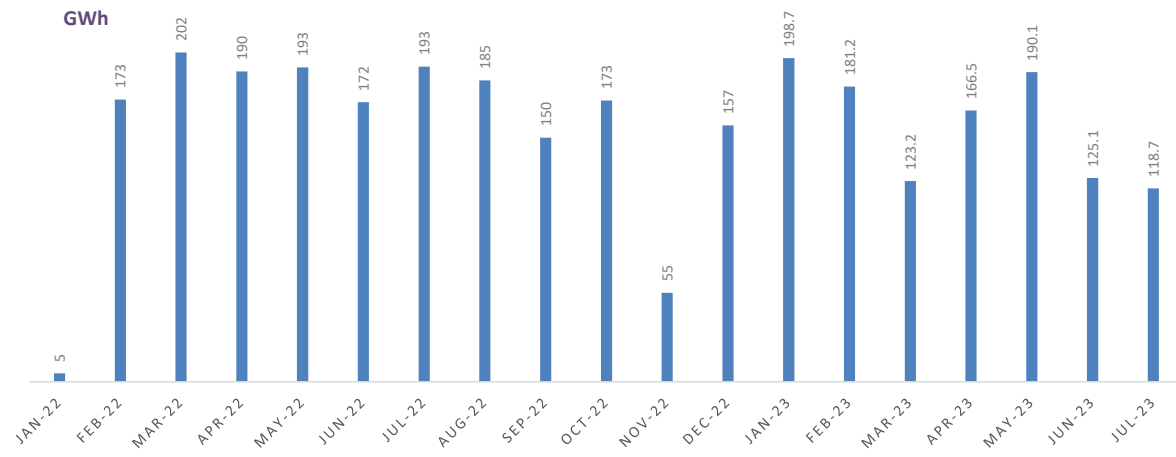
LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)



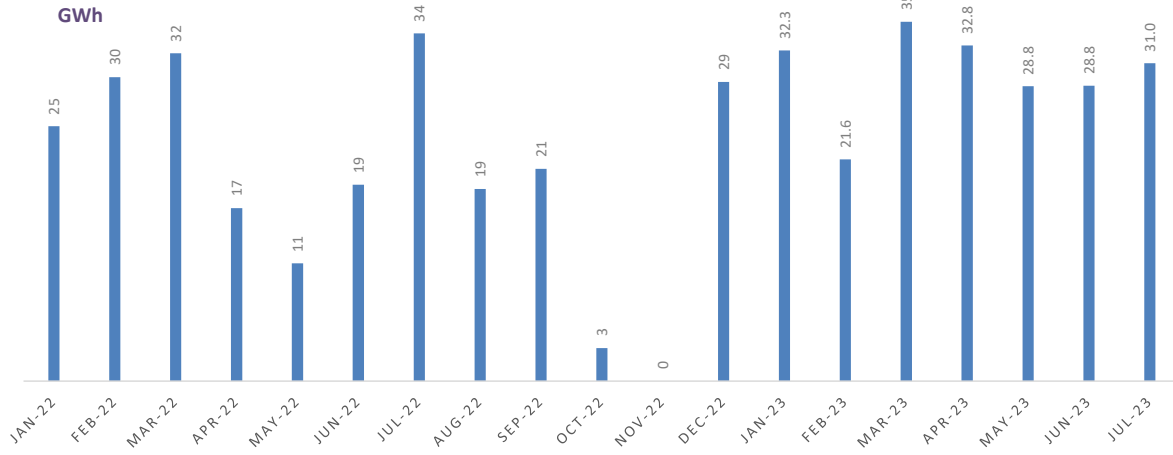
LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)



LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



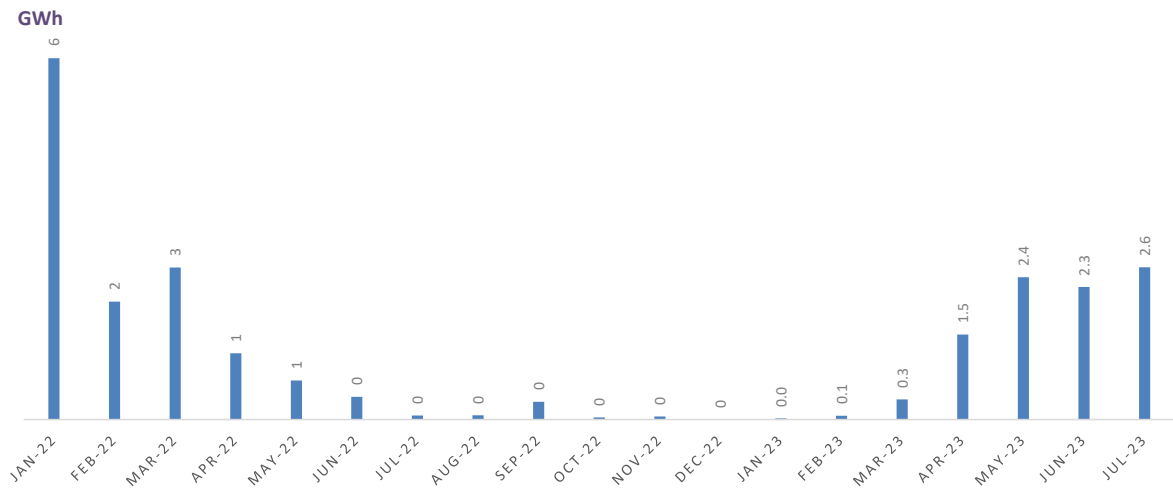
BARGE POWER STATION - CEB (60 MW)



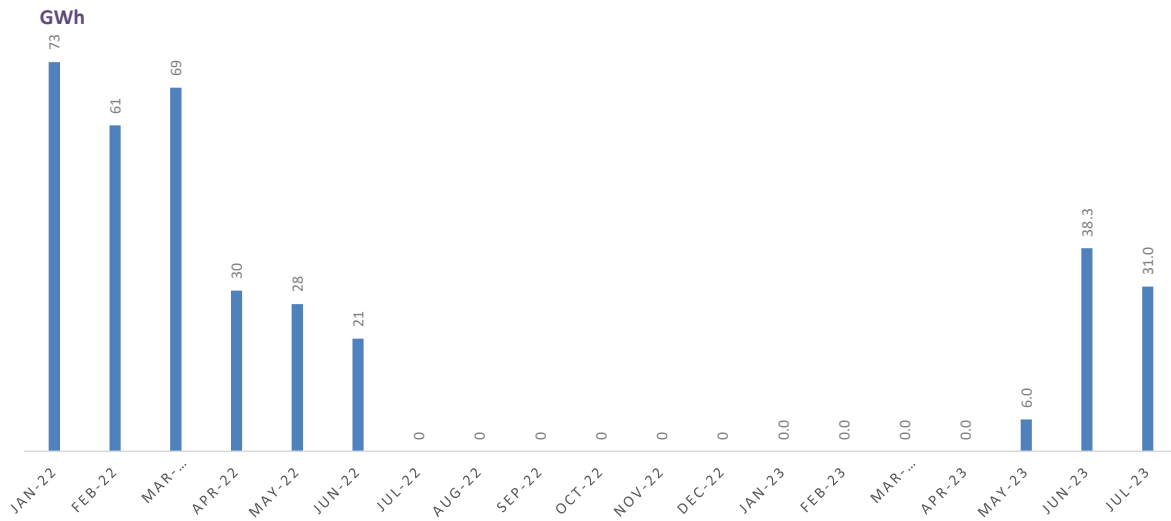
HAMBANTOTA - CEB (30 MW)



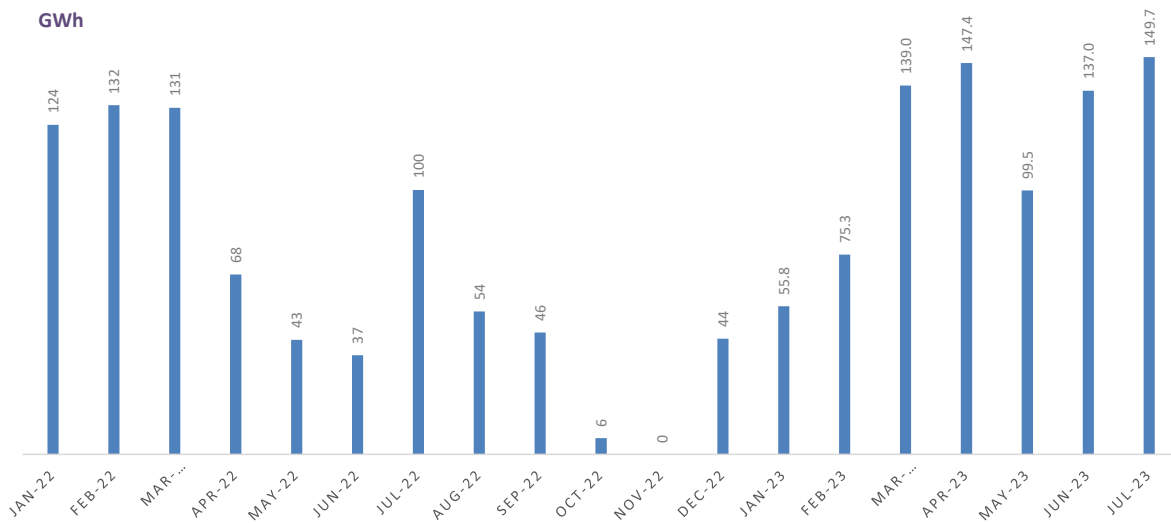
MATHUGAMA - CEB (20 MW)



KCCPS - 02 POWER STATION (163 MW)



WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)



3 Peak Demand

During the month;

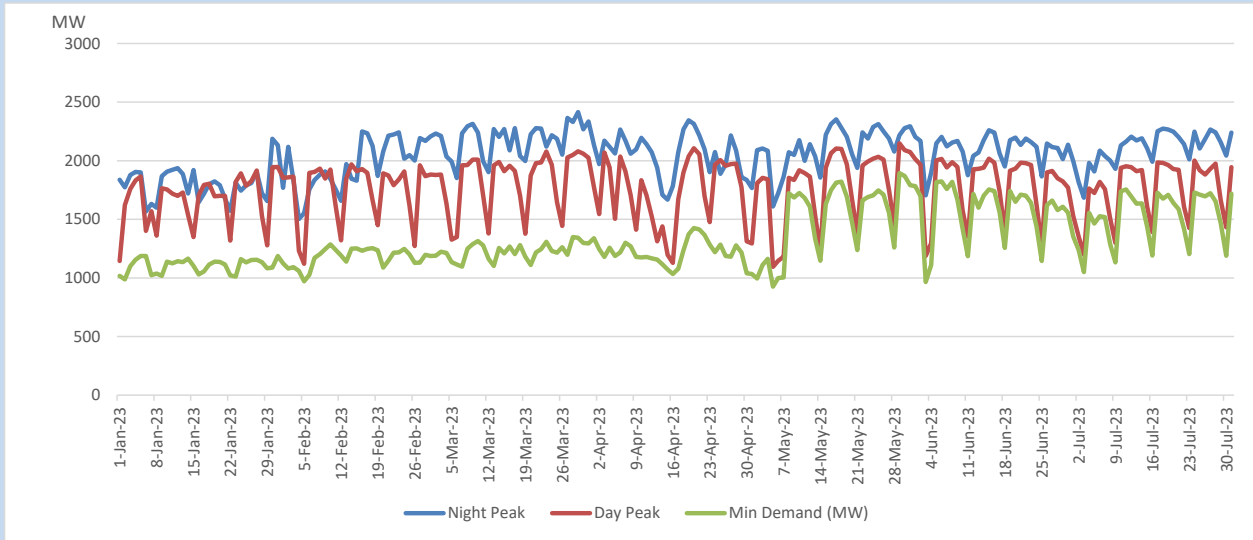
Table 05

Highest Peak Demand	2,274	MW
Lowest Peak Demand	1,685	MW
Highest Day Peak Demand	2,002	MW
Minimum Demand	1,050	MW

on 18-Jul
on 3-Jul
on 24-Jul
on 3-Jul

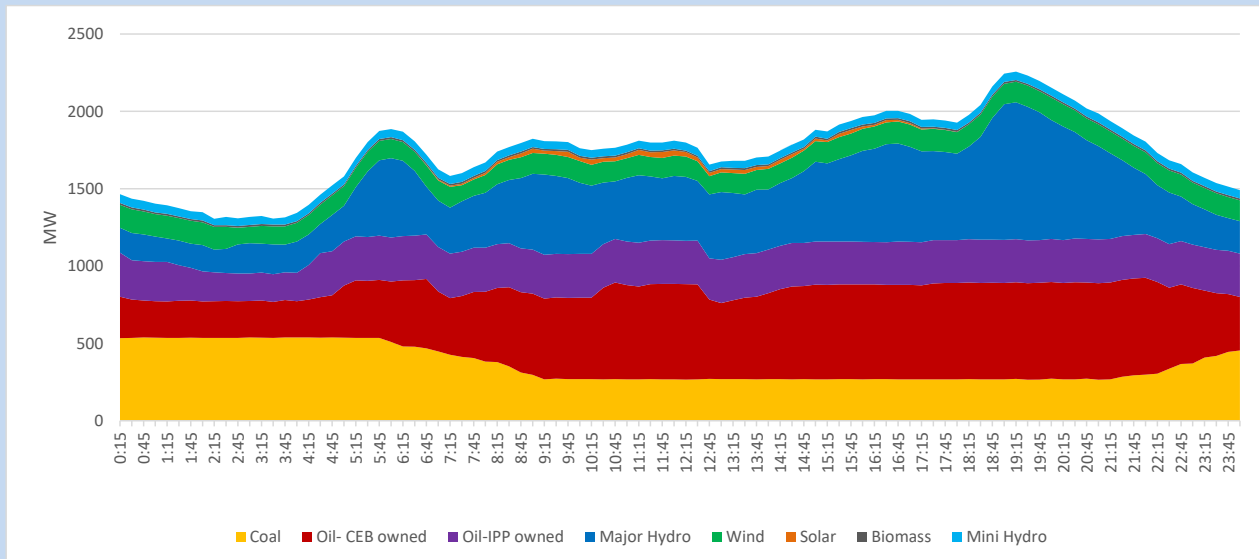
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

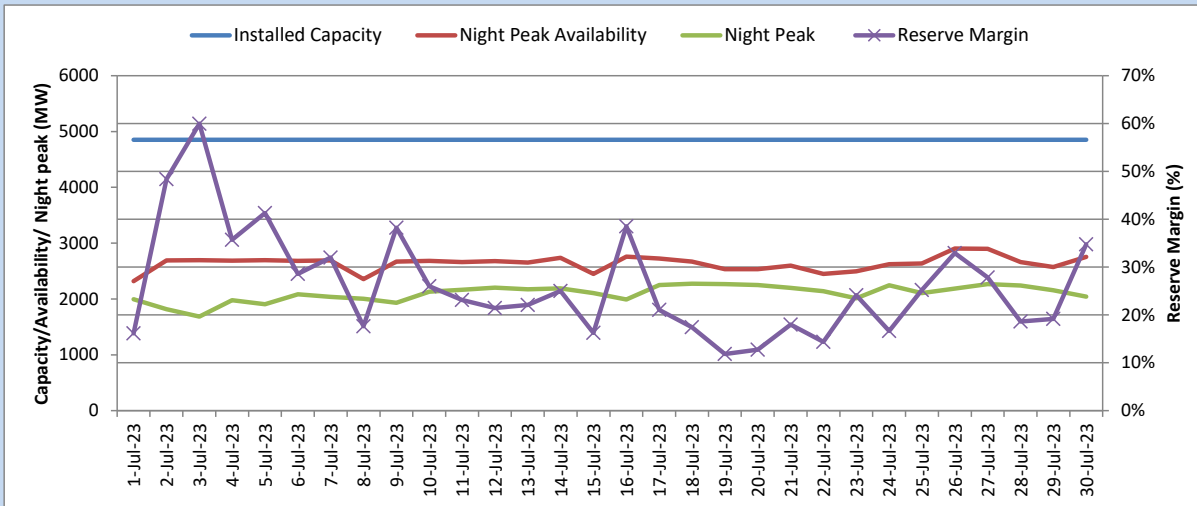


3.2 Load Curve of the Day with Highest Night Peak ,

18-Jul



3.3 Variation of Reserve Margin During Night Peak



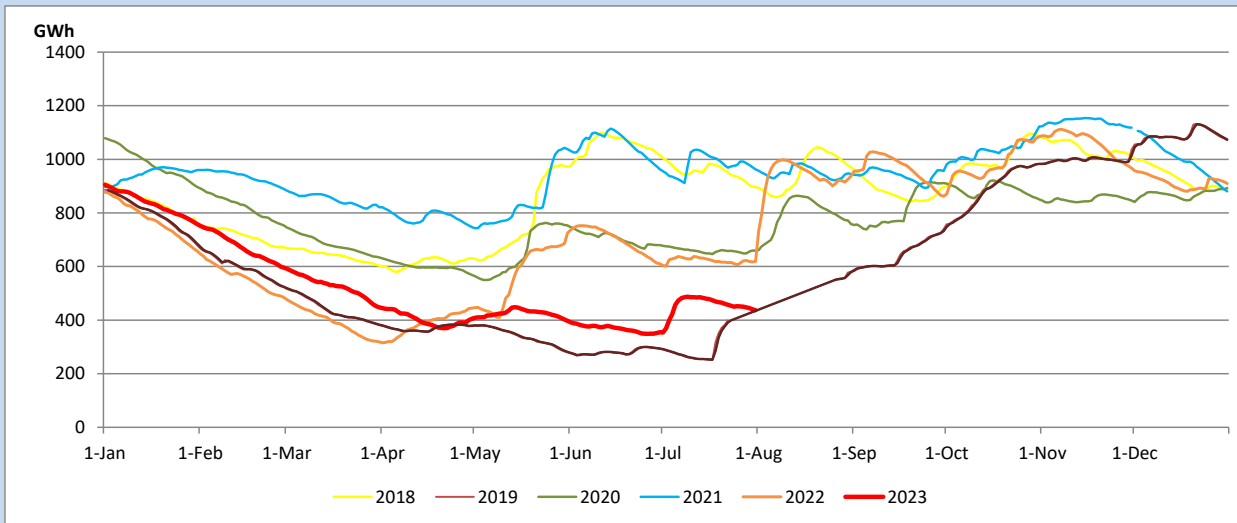
Note: Contribution from NCRE plants is not included

4 Reservoir Statistics

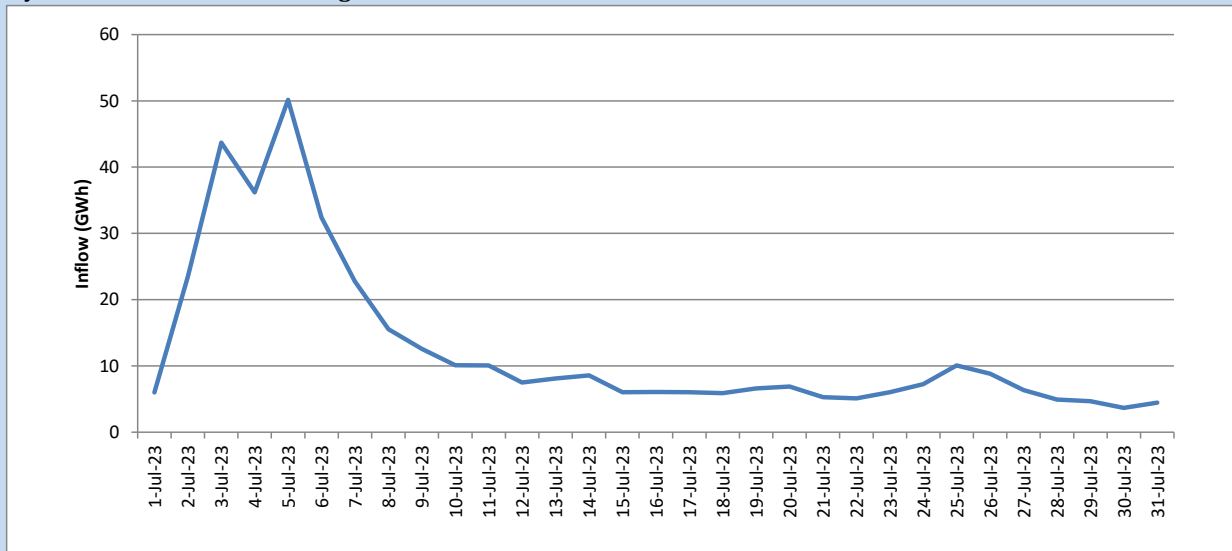
Table 05

Total Reservoir level at the beginning of the month	354 GWh
Total Reservoir level at the end of the month	437.2 GWh
Total Inflow	391.4 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

