

Monthly Generation Report

December-23



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1 Generation Mix

1.1 Monthly Generation Mix in GWh

December-23

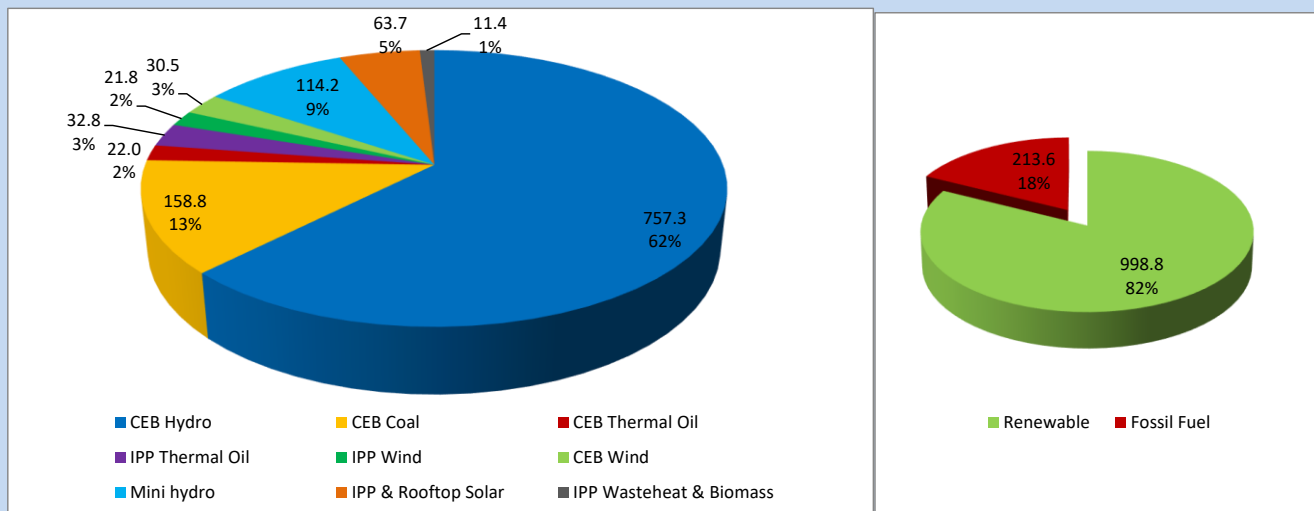


Table 01

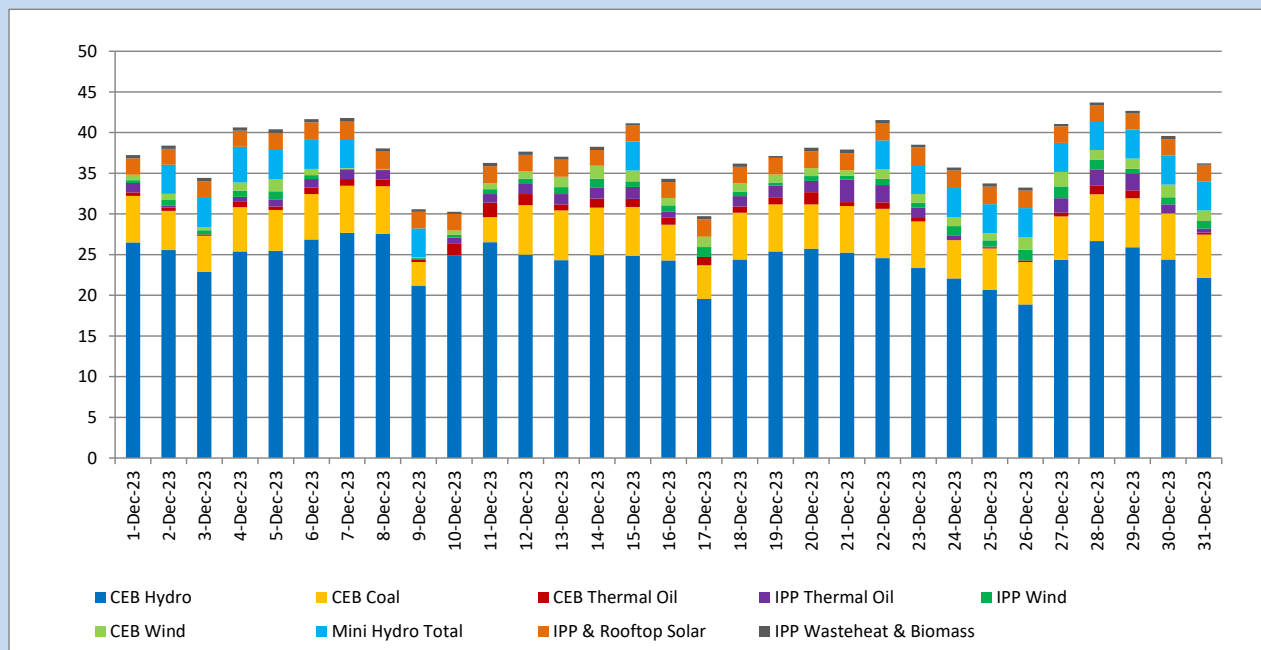
CEB Hydro	757	GWh
CEB Coal	159	GWh
CEB Thermal Oil	22	GWh
IPP Thermal Oil	33	GWh
IPP Wind	22	GWh
CEB Wind	30	GWh
Mini Hydro (Including non telemetered)	114	GWh
IPP Solar (Including estimated figures)	64	GWh
IPP Wasteheat + Biomass	11	GWh
Total Generation (Including estimated figures)	1,212	GWh

Total Generation = 1,212 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

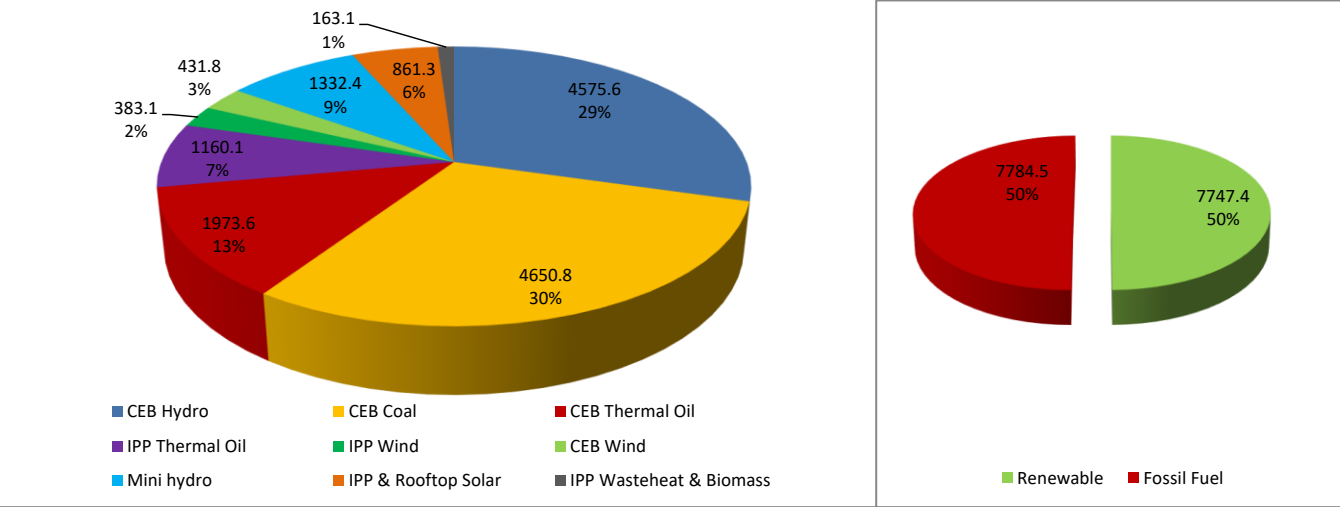


Table 02

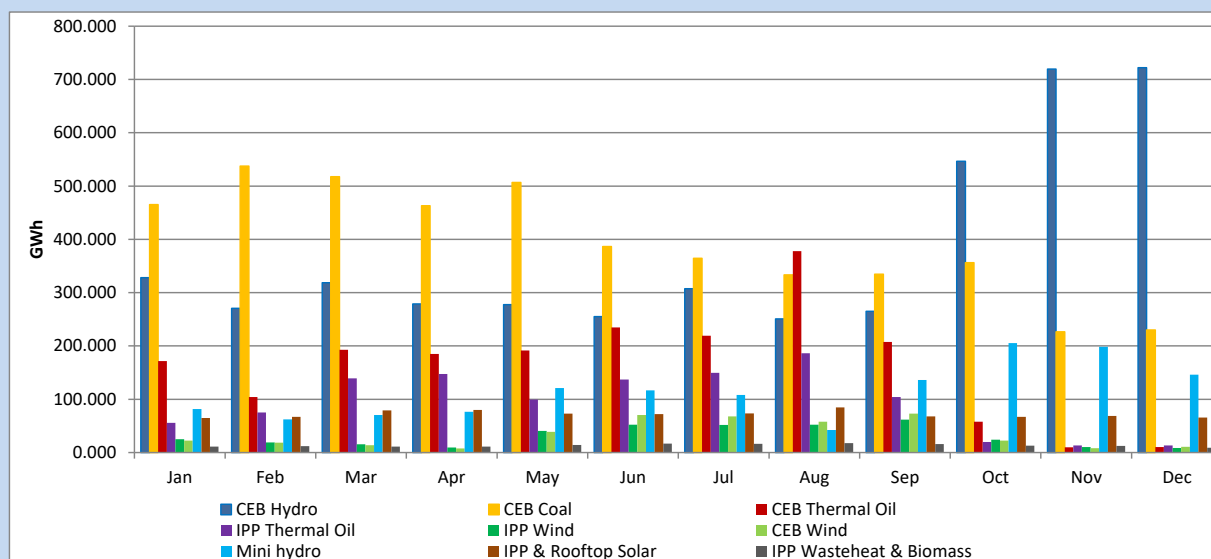
CEB Hydro	4575.64	GWh
CEB Coal	4650.78	GWh
CEB Thermal Oil	1973.61	GWh
IPP Thermal Oil	1160.10	GWh
IPP Wind	383.10	GWh
CEB Wind	431.80	GWh
Mini Hydro (Including non telemetered)	1332.43	GWh
IPP Solar (Including estimated figures)	861.33	GWh
IPP Wasteheat + Biomass	163.11	GWh
Total Generation (Including estimated figures)	15531.90	GWh

Data source - MRR Nov 2023

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	151
Rooftop Solar* (Ordinary)	283
Rooftop Solar* (LT Bulk)	271
Rooftop Solar* (HT Bulk)	74

1.4 Variation of Monthly Generation Mix during the year



2 Major Plant Dispatch

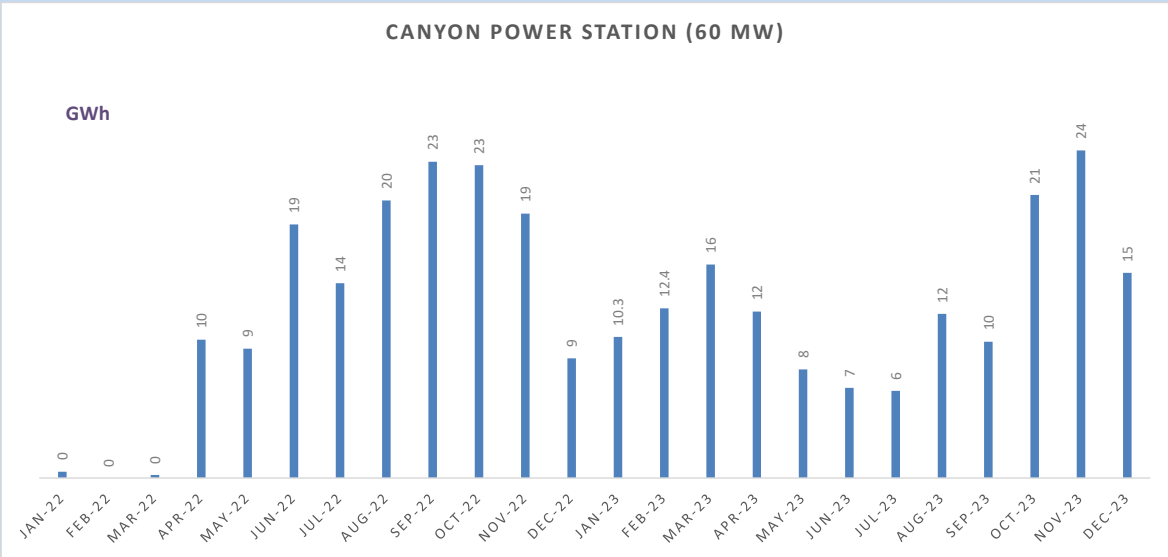
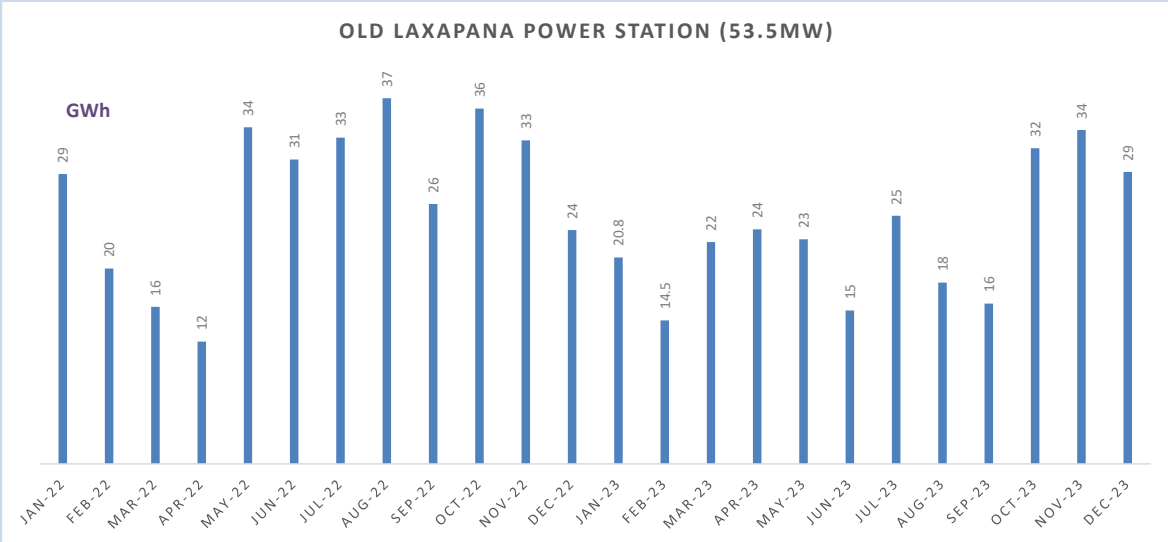
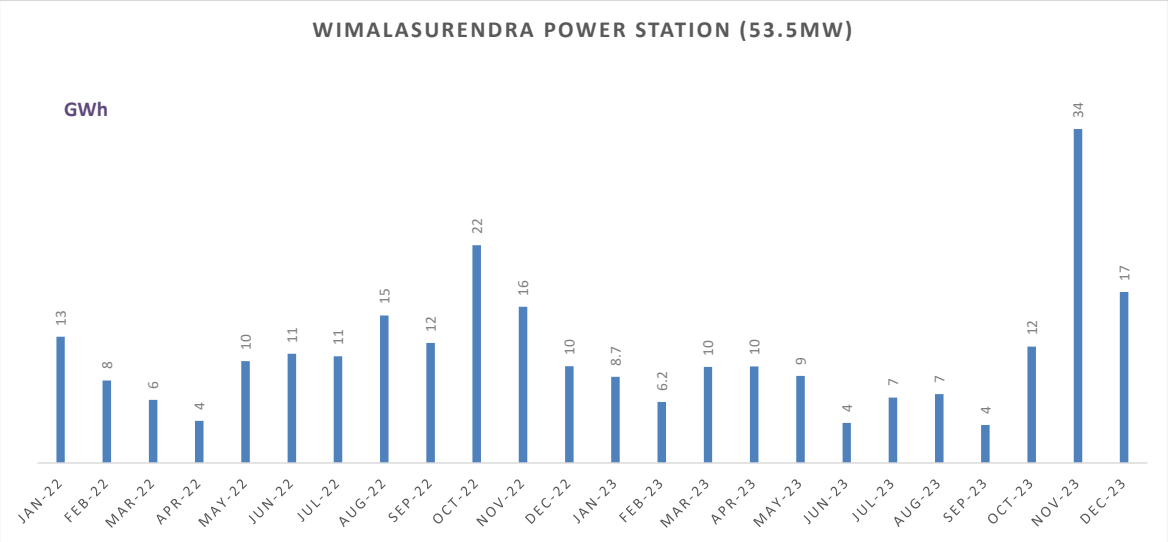
2.1 Dispatch from all Generation Major Plants in

December-23

Table 04

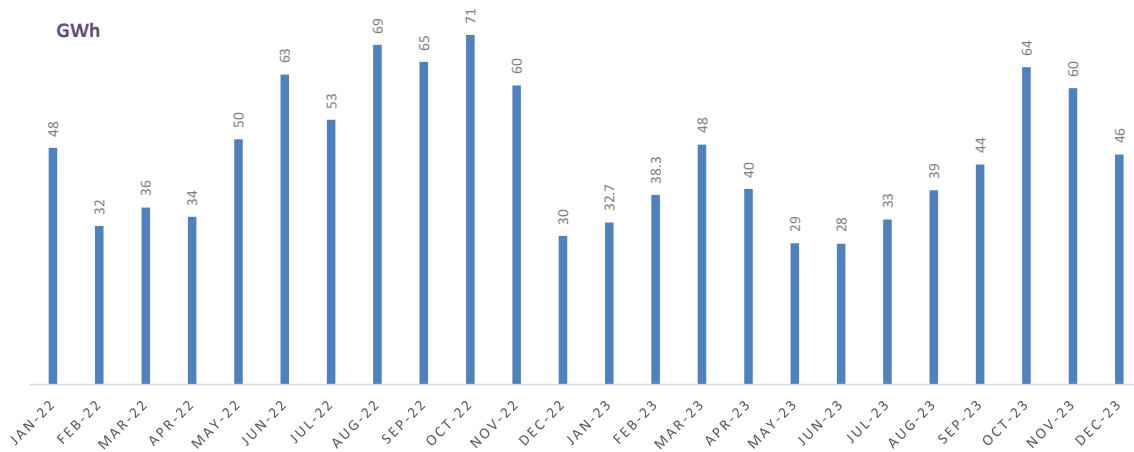
Power Station	Capacity (MW)	Generation (MWh)	Plant factor (%)
Wimalasurendra	50	17,264	48.0%
Old Laxapana	54	29,479	75.8%
Canyon	60	15,050	34.8%
New Laxapana	100	46,439	64.5%
Polpitiya	90	44,290	68.3%
Broadlands	35	12,773	50.7%
Kotmale	201	75,230	52.0%
Victoria	210	138,865	91.8%
Randenigala	122	83,960	95.6%
Rantambe	50	35,106	97.5%
Ukuwela	40	24,350	84.5%
Bowatenna	40	24,317	84.4%
Upper Kotmale	150	76,222	70.6%
Nilambe	3	2,185	101.2%
Samanalawewa	120	85,027	98.4%
Kukule	75	43,653	80.8%
Inginiyagala	8.8	701	11.1%
Udawalawe	4	2,359	81.9%
Puttalam Coal I	270	45,527	23.4%
Puttalam Coal II	270	36,616	18.8%
Puttalam Coal III	270	76,596	39.4%
KPS Small GTs	64	48	0.1%
KPS GT 7	115	0	0.0%
KCCP	161	4,390	3.8%
Sapugaskanda A	70	958	1.9%
Sapugaskanda B	70	6,032	12.0%
Uthura Janani	26	1,855	9.9%
Barge CEB	60	8,624	20.0%
CEB - Hambantota	30	77	0.4%
CEB - Mathugama	20	26	0.2%
KCCPS -2	163	0	0.0%
ACE Matara	24	463	2.7%
West Coast	270	31,622	16.3%

2.3 Generation of Major Power Plants From Last Year



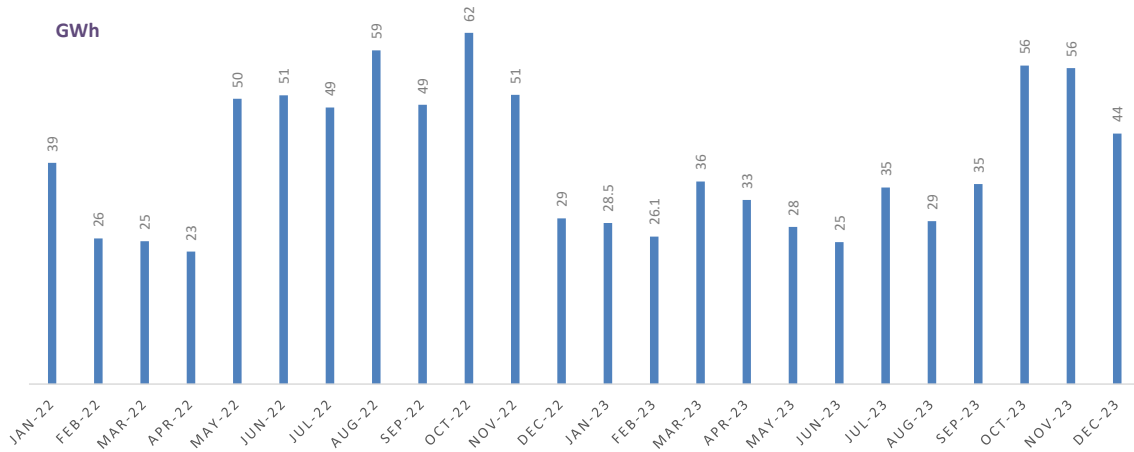
NEW LAXAPANA POWER STATION (115 MW)

GWh



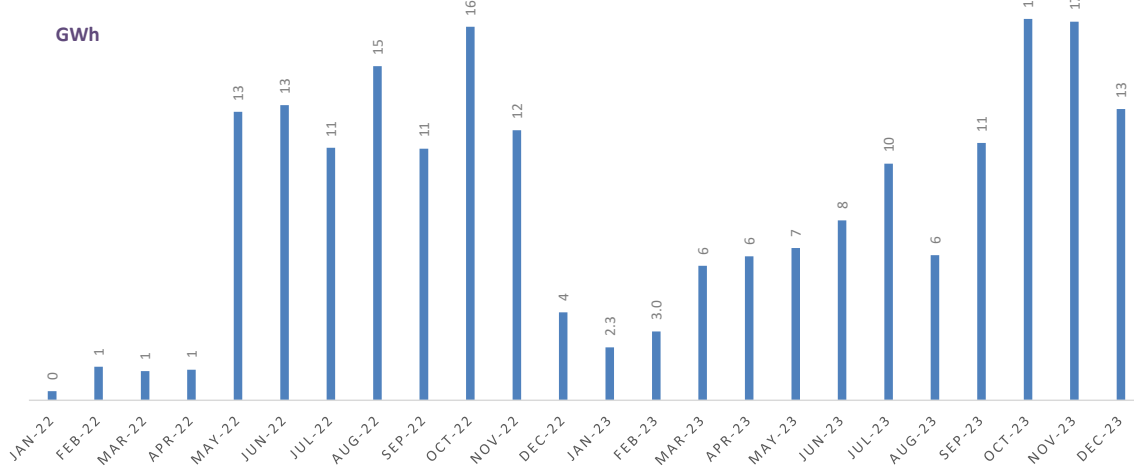
POLPITIYA POWER STATION (90 MW)

GWh



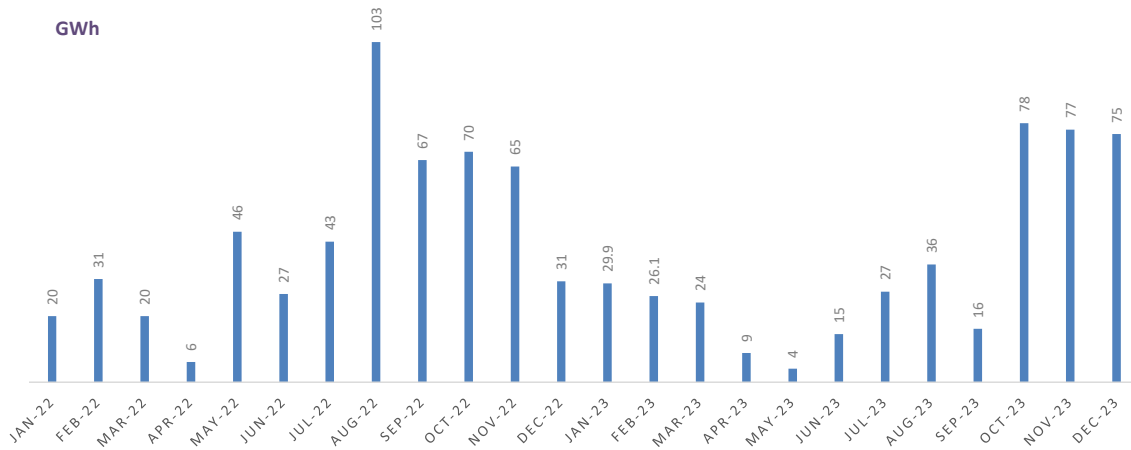
BROADLANDS POWER STATION (35 MW)

GWh



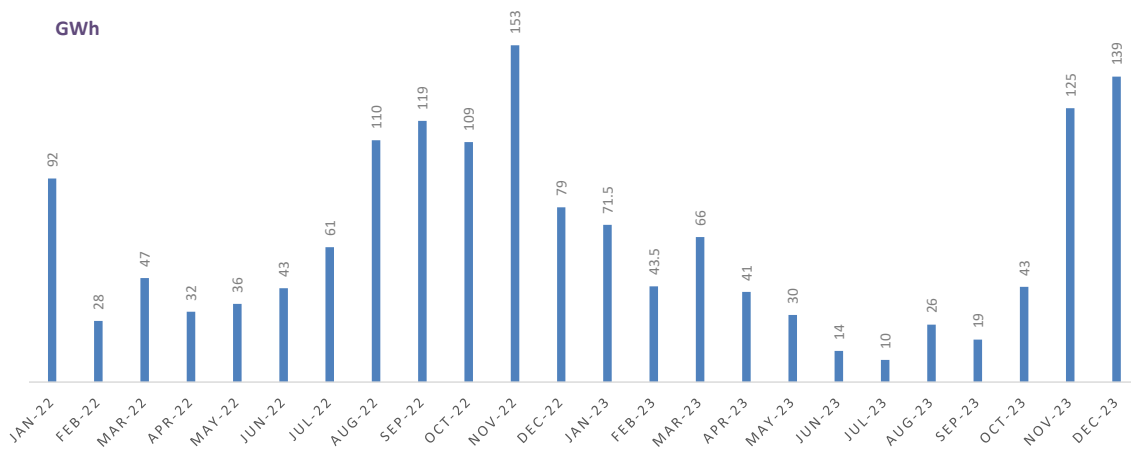
KOTMALE POWER STATION (201 MW)

GWh



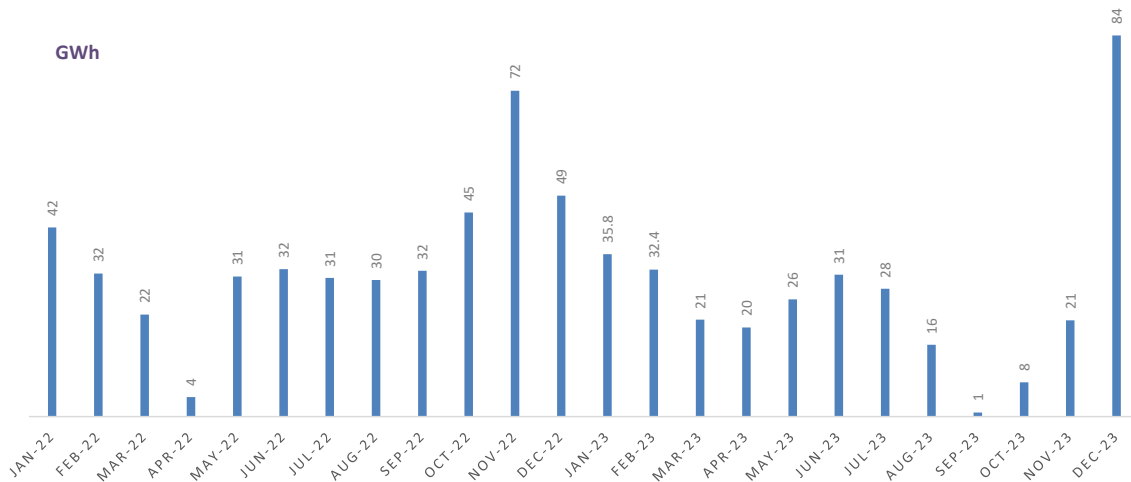
VICTORIA POWER STATION (225 MW)

GWh



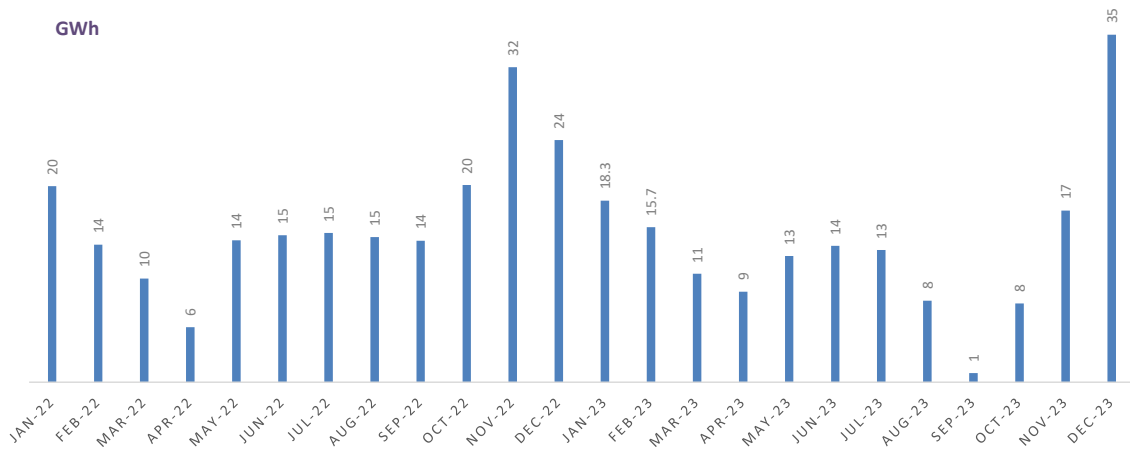
RANDENIGALA POWER STATION (114 MW)

GWh



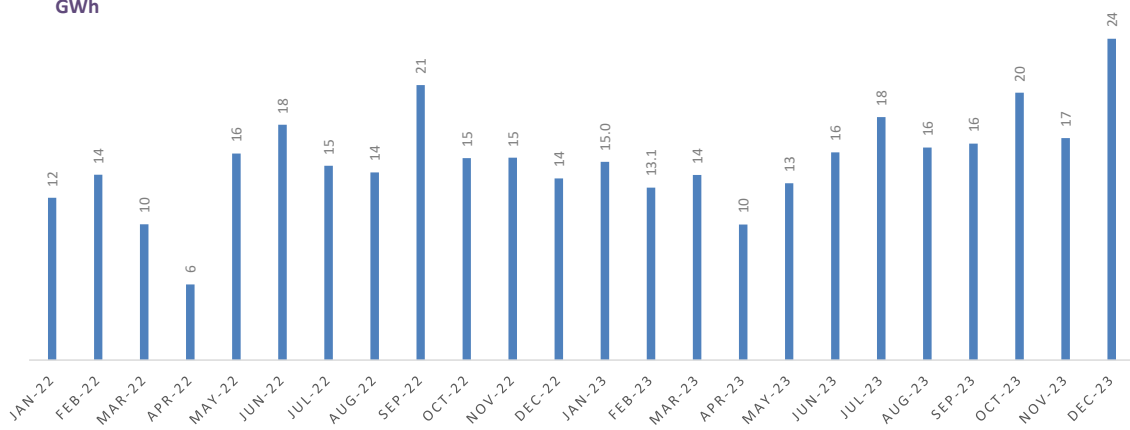
RANTAMBE POWER STATION (50 MW)

GWh



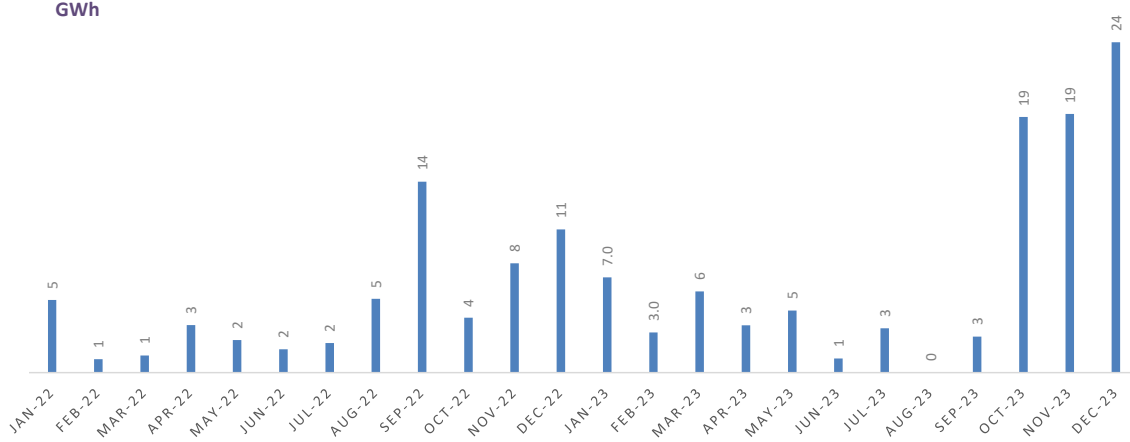
UKUWELA POWER STATION (37 MW)

GWh



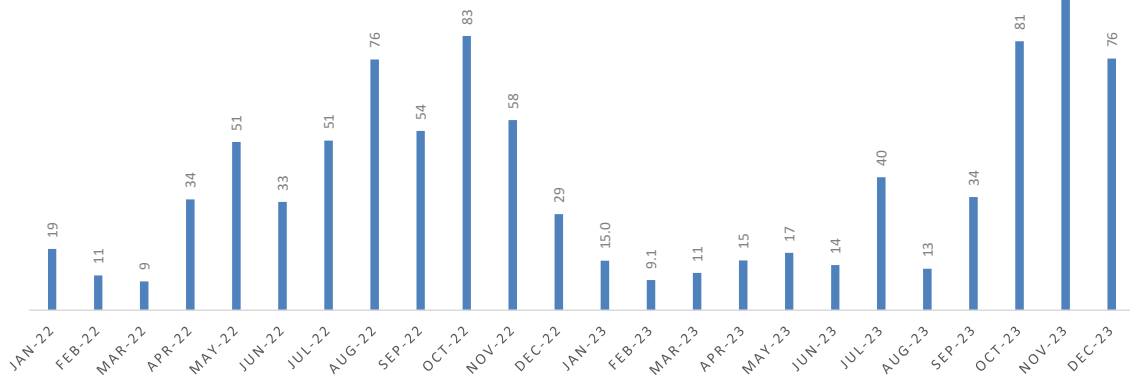
BOWATHENNA POWER STATION (40 MW)

GWh



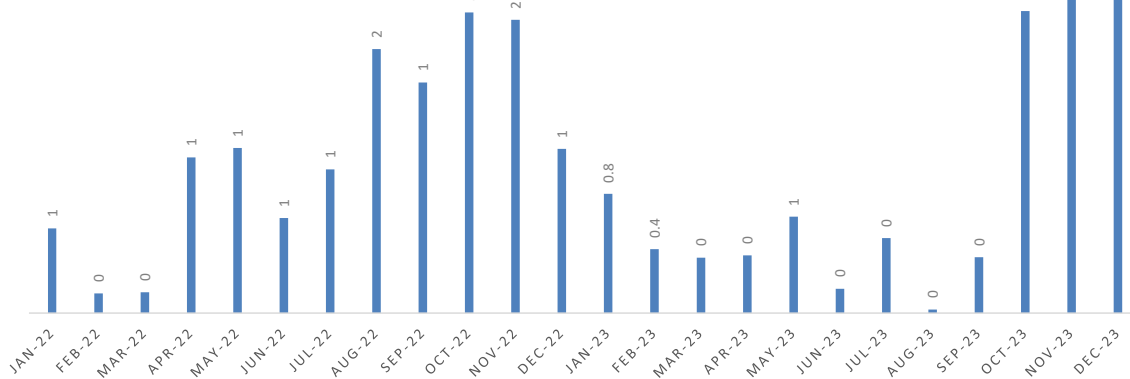
UPPER KOTMALE POWER STATION (150 MW)

GWh



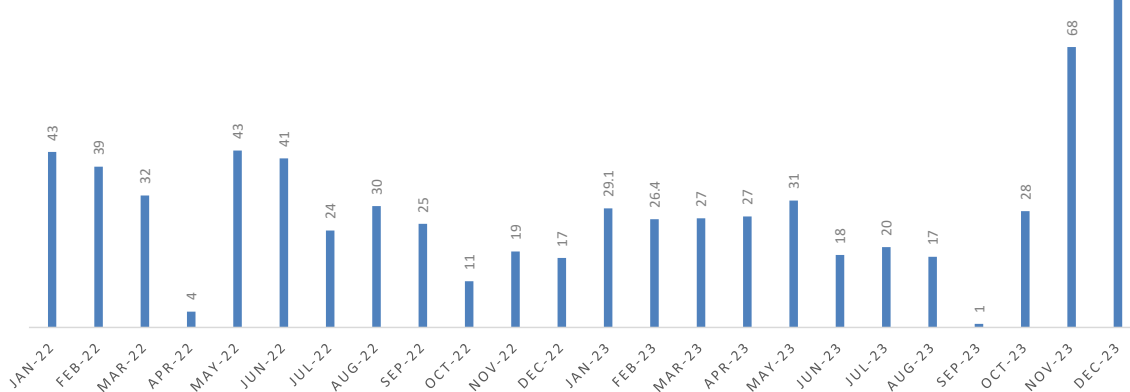
NILLAMBE POWER STATION (3 MW)

GWh



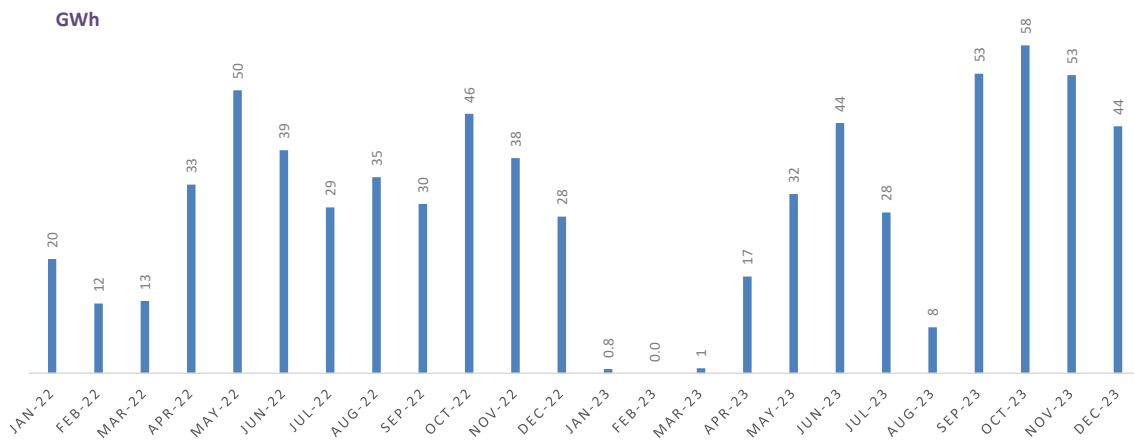
SAMANALAWEWA POWER STATION (120 MW)

GWh



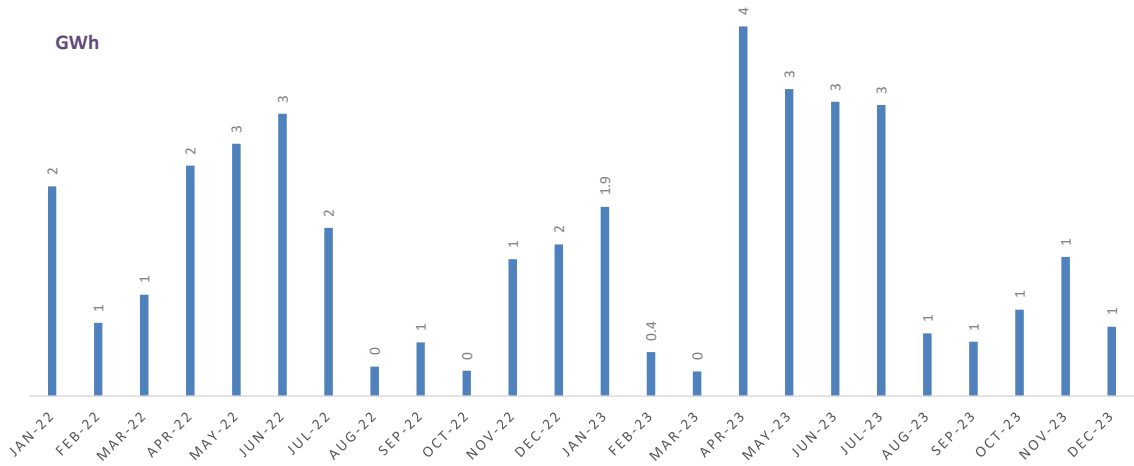
KUKULE POWER STATION (75 MW)

GWh



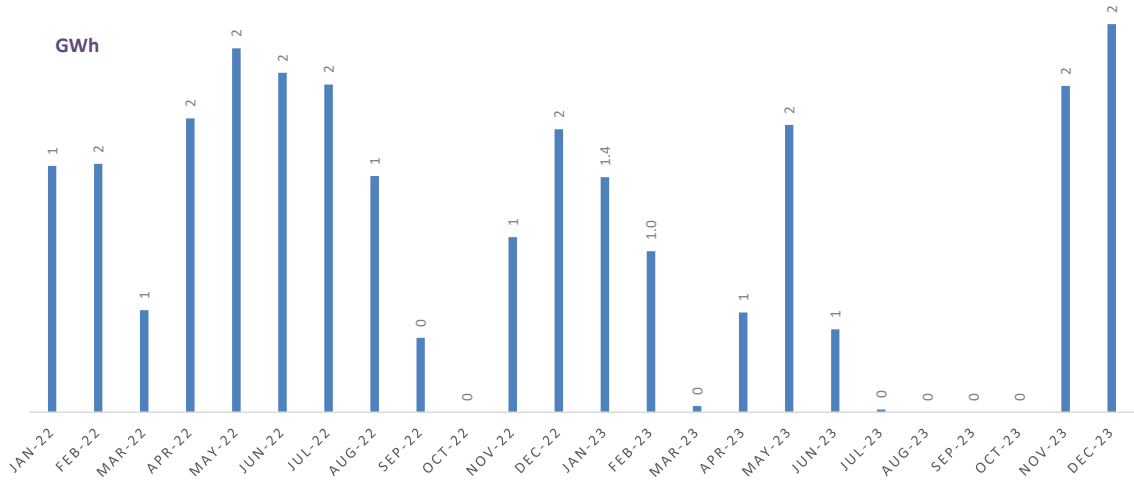
INGINIYAGALA POWER STATION (11 MW)

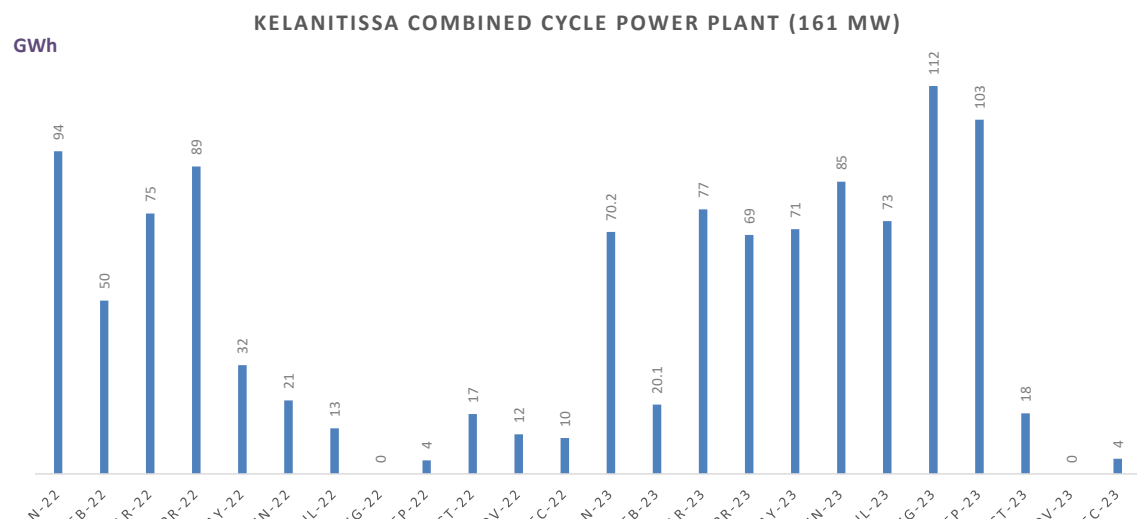
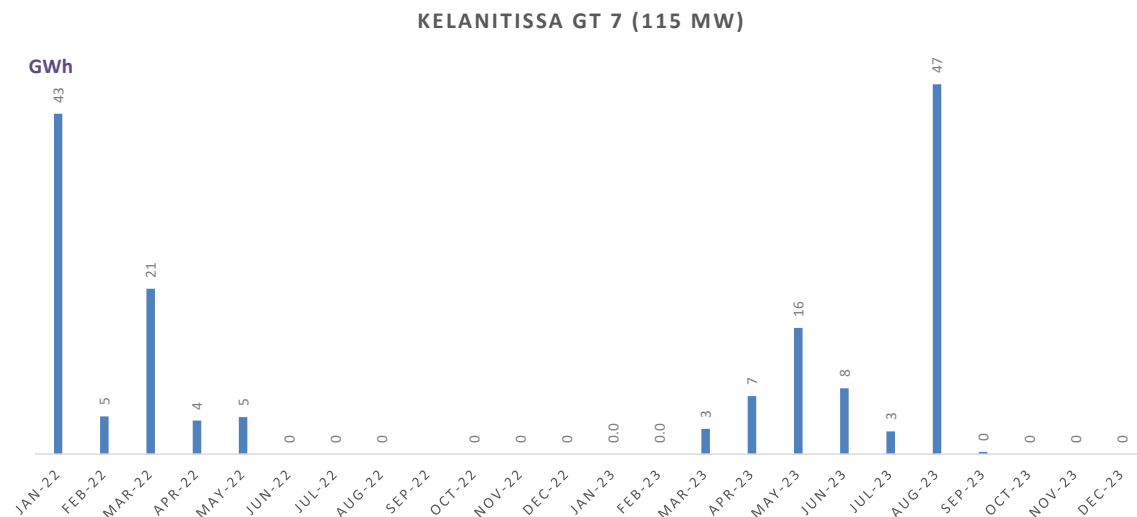
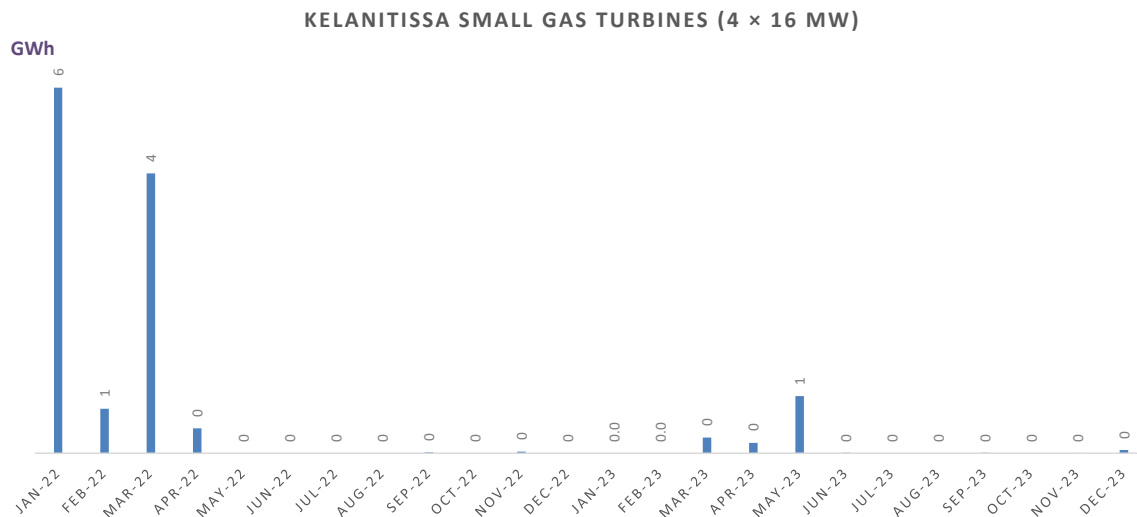
GWh



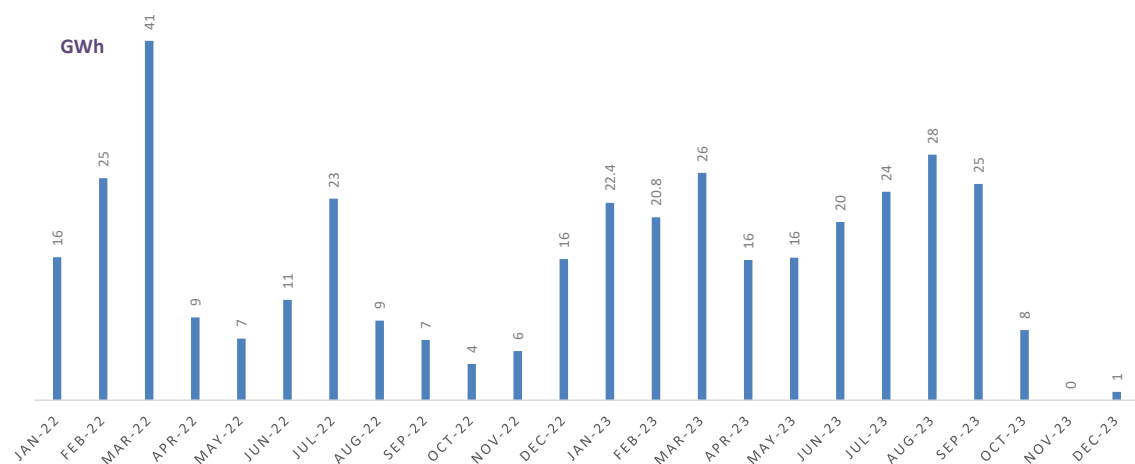
UDAWALAWE POWER STATION (6 MW)

GWh

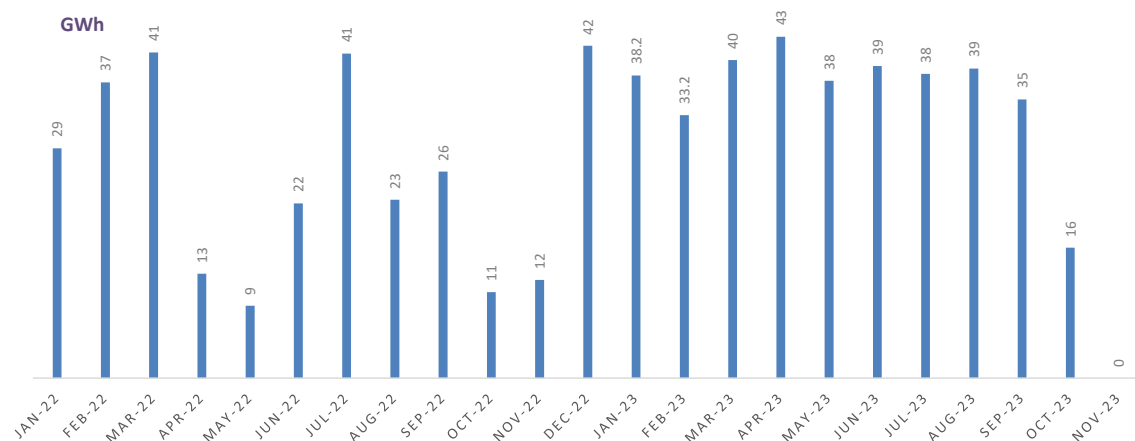




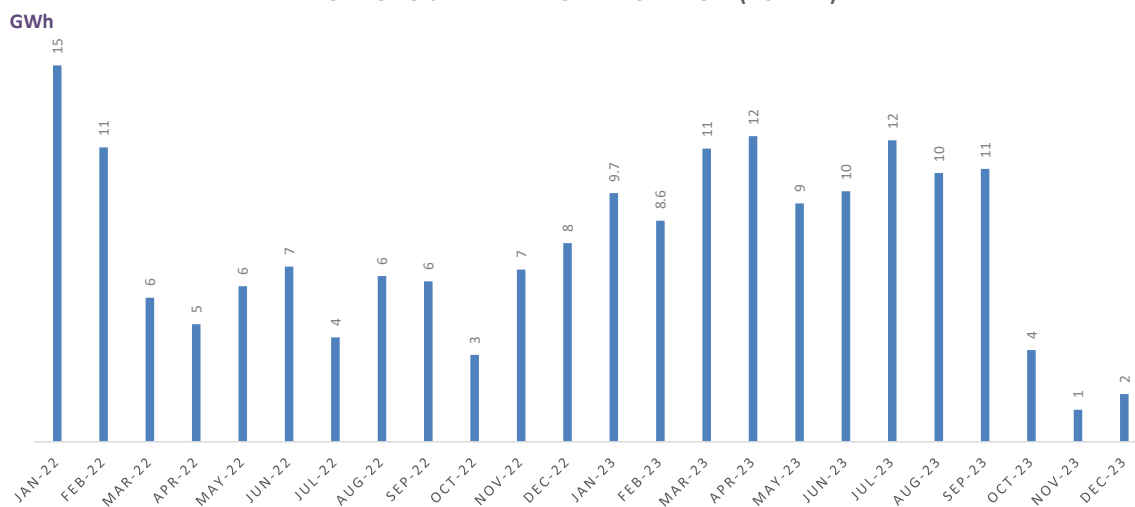
SAPUGASKANDA - A POWER STATION (80 MW)



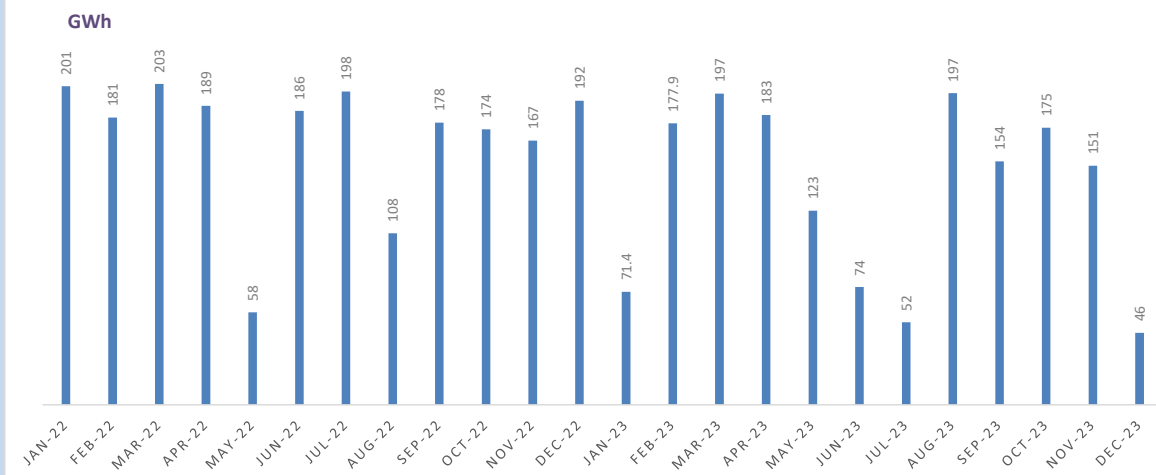
SAPUGASKANDA - B POWER STATION (80 MW)



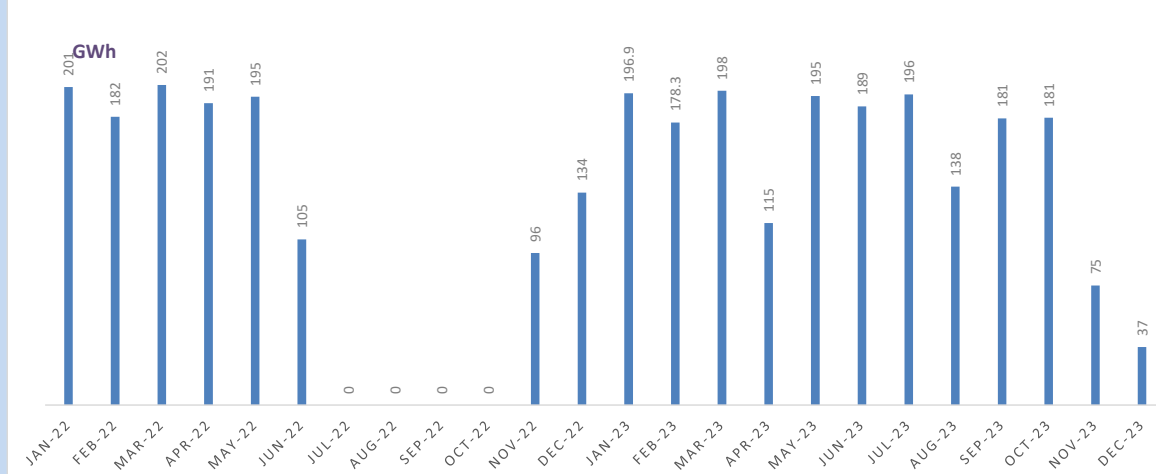
UTHURU JANANEE POWER STATION (26 MW)



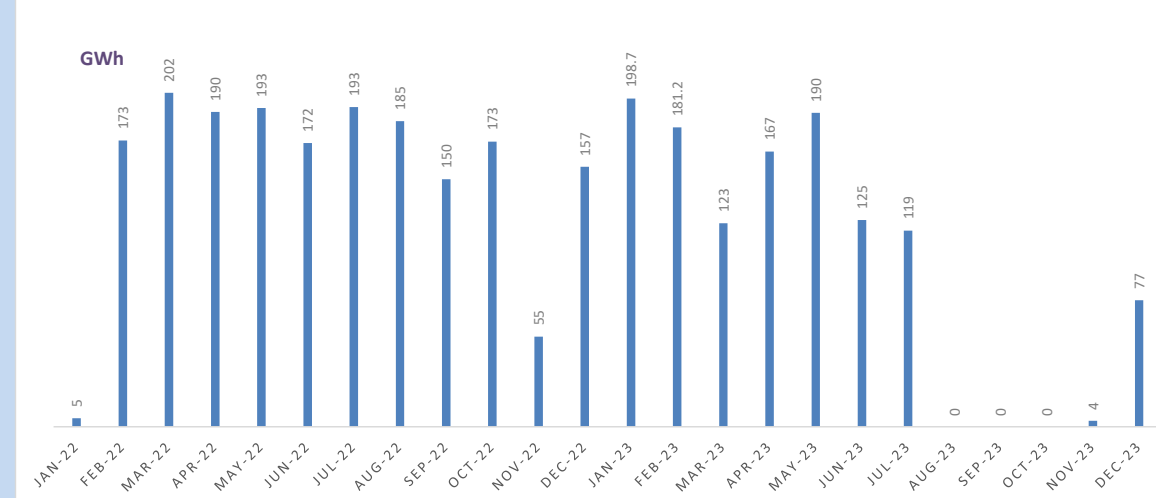
LAKVIJAYA COAL POWER STATION - UNIT 1 (270 MW)



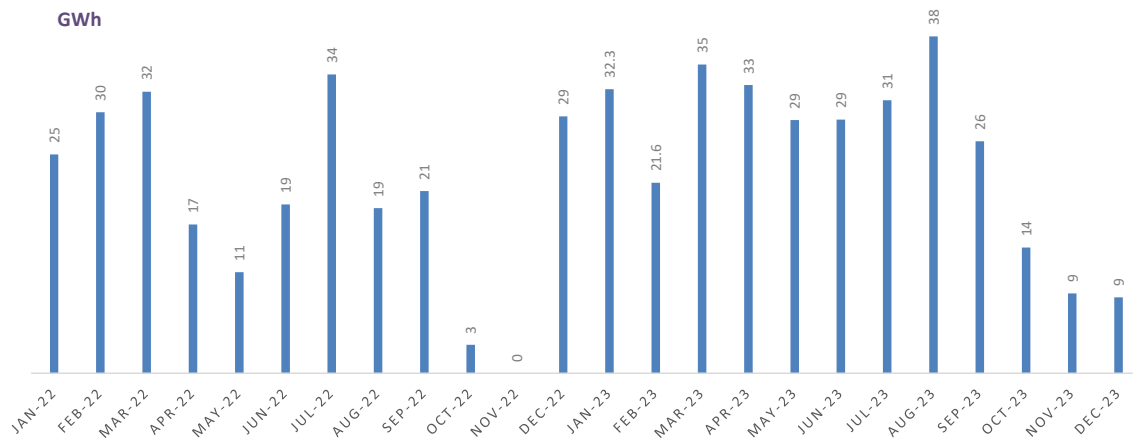
LAKVIJAYA COAL POWER STATION - UNIT 2 (270 MW)



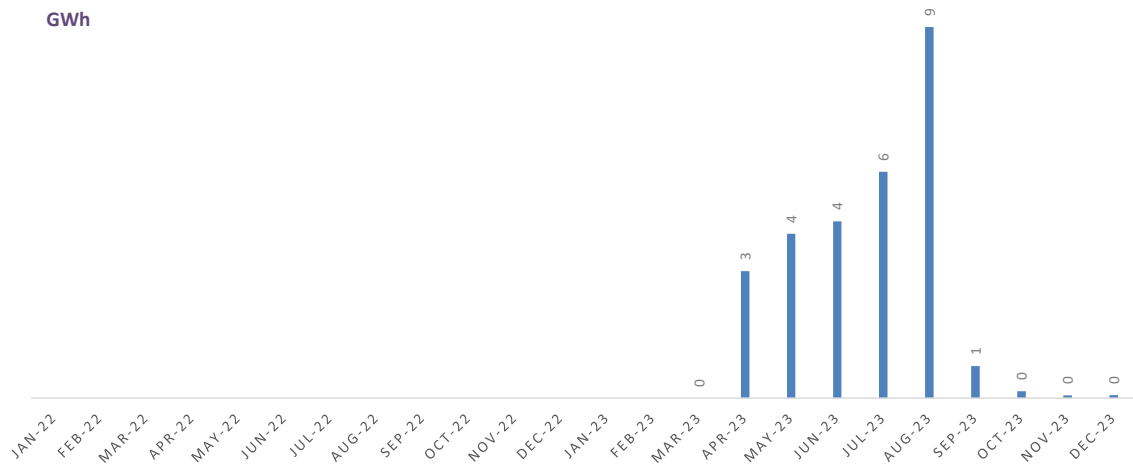
LAKVIJAYA COAL POWER STATION - UNIT 3 (270 MW)



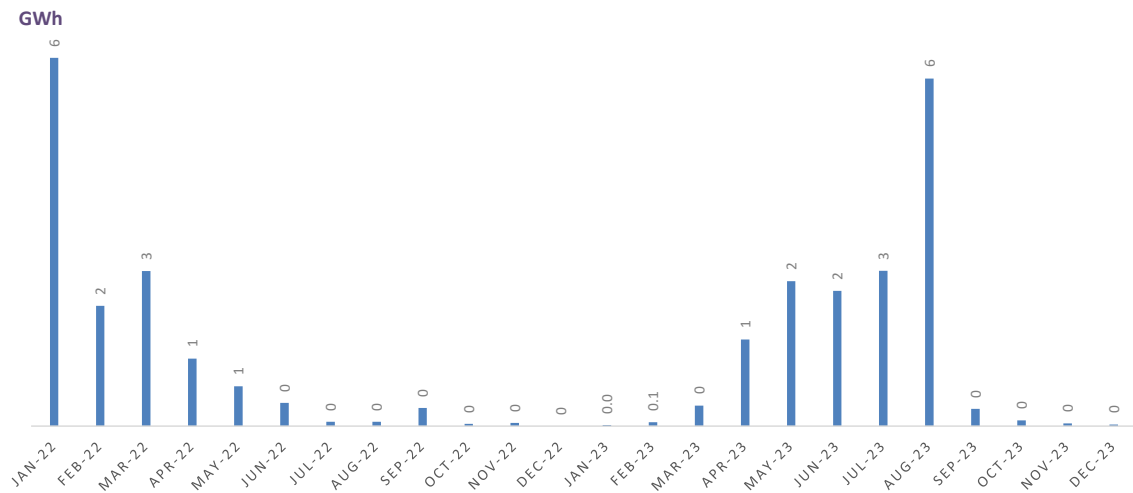
BARGE POWER STATION - CEB (60 MW)



HAMBANTOTA - CEB (30 MW)

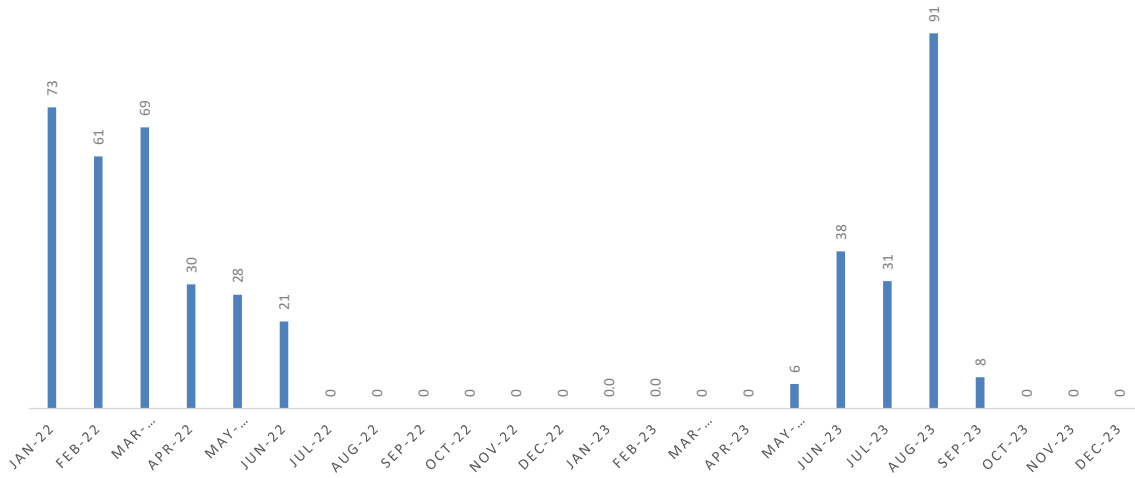


MATHUGAMA - CEB (20 MW)



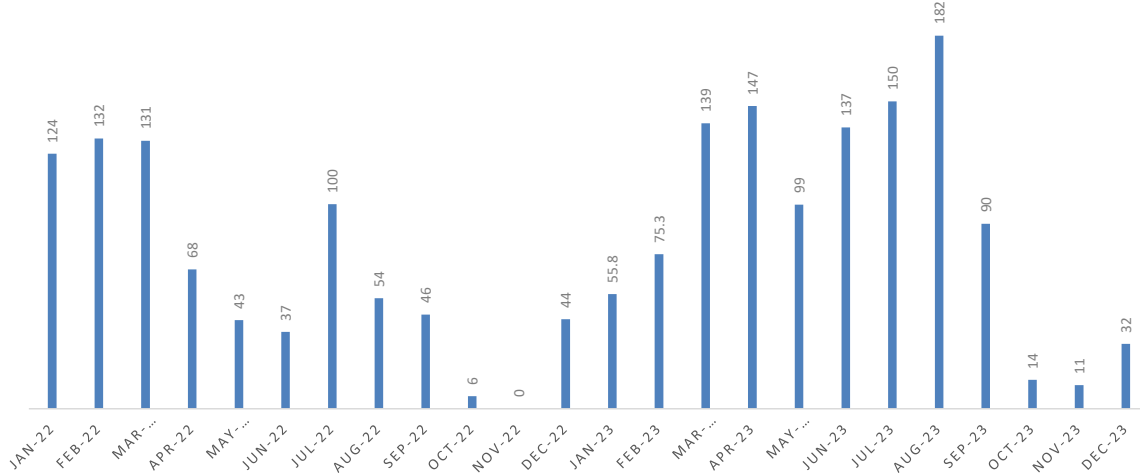
KCCPS - 02 POWER STATION (163 MW)

GWh



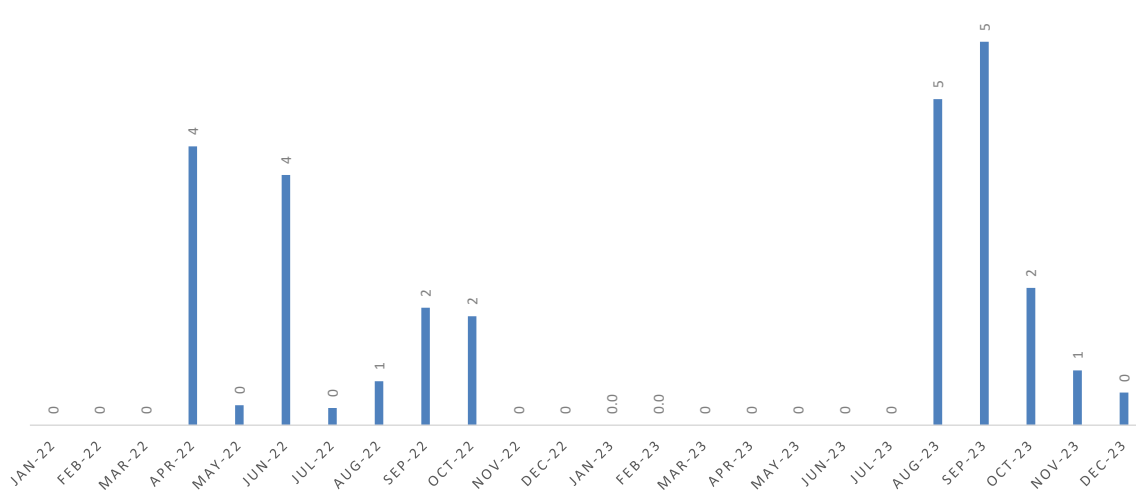
WEST COAST POWER STATION - KERAWALAPITIYA (270 MW)

GWh



ACE - MATARA (24 MW)

GWh



3 Peak Demand

During the month;

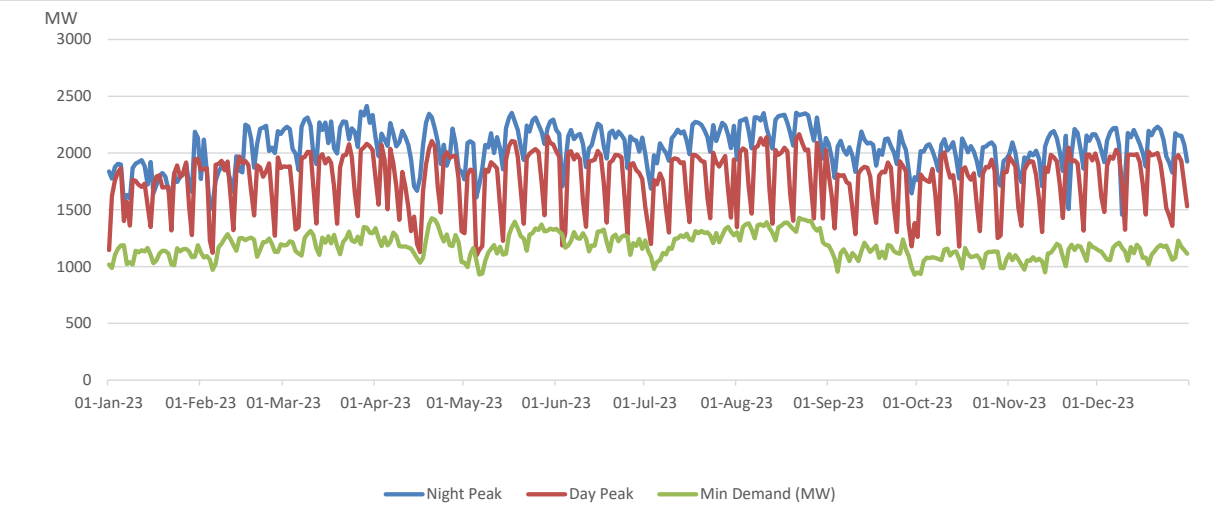
Table 05

Highest Peak Demand	2,232	MW
Lowest Peak Demand	1,457	MW
Highest Day Peak Demand	2,028	MW
Minimum Demand	1,018	MW

on 21-Dec
on 09-Dec
on 07-Dec
on 18-Dec

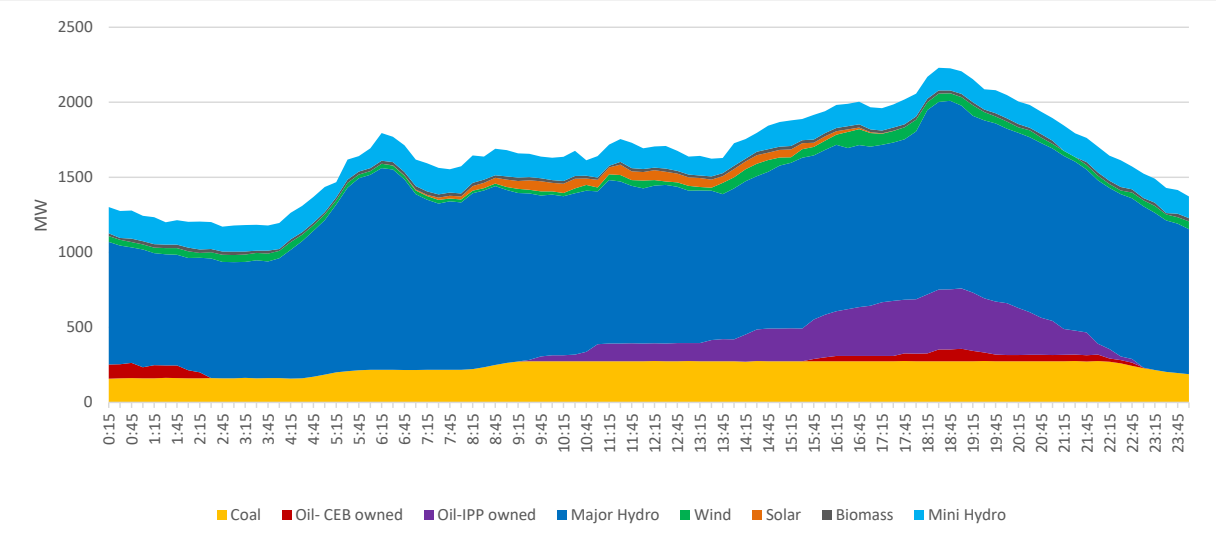
*Demand figures are excluding the contribution from Roof Top Solar, 1MW solar, certain Wind plants, Mini Hydro plants and Biomass plants

3.1 Demand Variation During the year

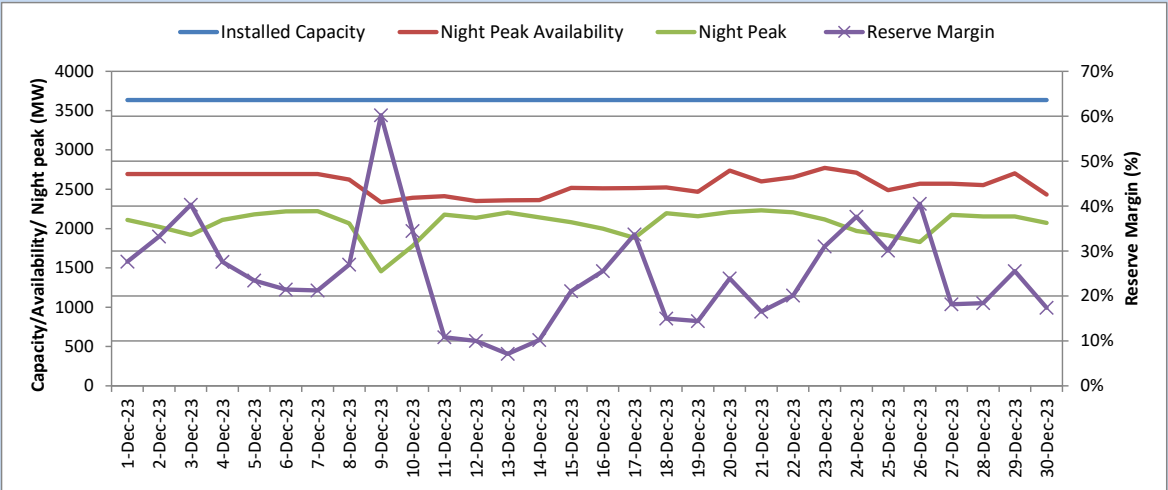


3.2 Load Curve of the Day with Highest Night Peak ,

21-Dec



3.3 Variation of Reserve Margin During Night Peak



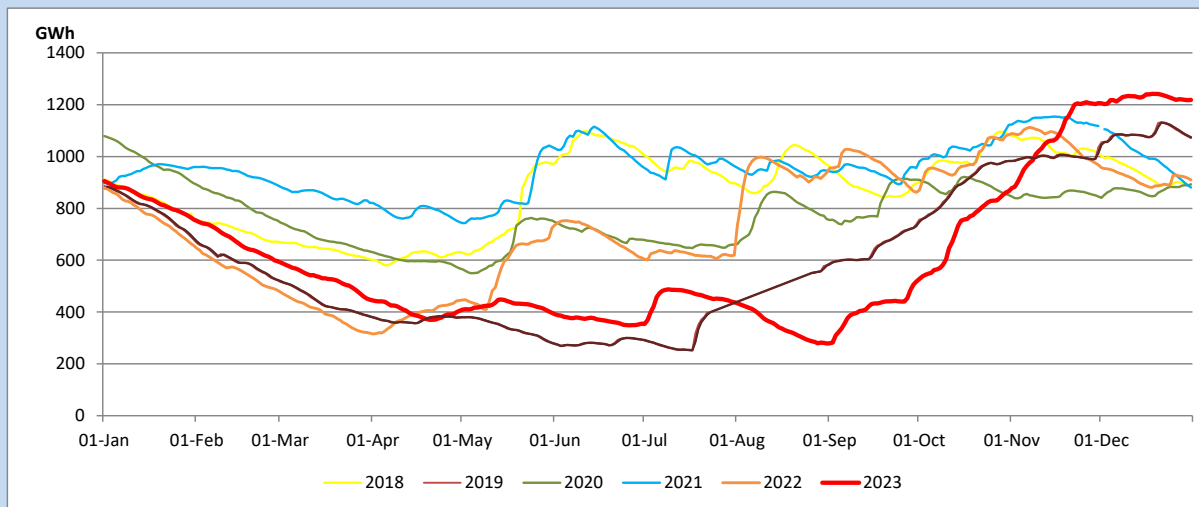
Note:Contribution from NCRE plants is not included

4 Reservoir Statistics

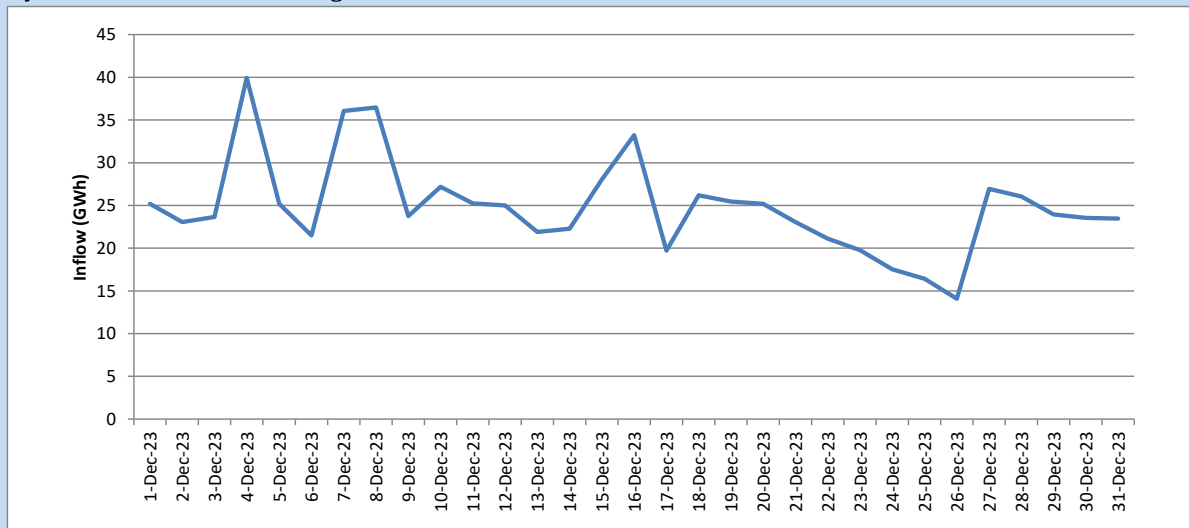
Table 05

Total Reservoir level at the beginning of the month	1206 GWh
Total Reservoir level at the end of the month	1218.7 GWh
Total Inflow	770.1 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

