

Generation and Reservoirs Statistics

October 21, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

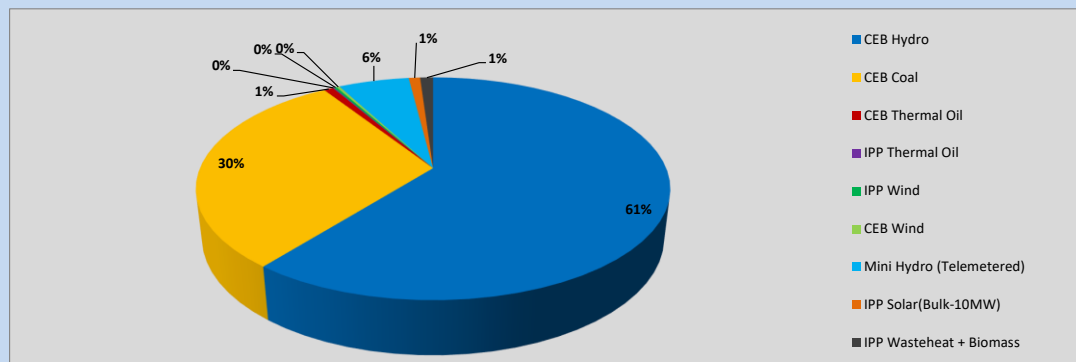


Table 01

	Generation (MWh)
CEB Hydro	20,612
CEB Coal	10,257
CEB Thermal Oil	259
IPP Thermal Oil	33
IPP Wind	79
CEB Wind	86
Mini Hydro (Telemetered)	1,962
IPP Solar (Bulk)	315
IPP Waste heat + Biomass	358
Total Generation (Excluding estimated figures)	33,961
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2898
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
Total Generation (Including estimated figures)	39,093

* Estimated figures of CEB generation report

Table 02

	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

Data Source - Monthly Review Report [May-2023]

2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

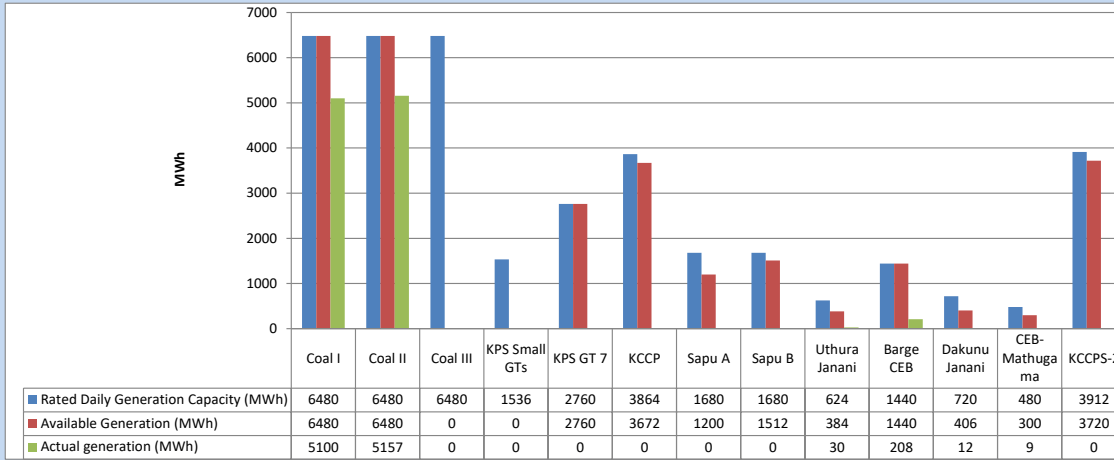
Category	Dispatch (GWh)	
CEB Hydro	342	45.08%
CEB Coal	249	32.86%
CEB Thermal Oil	57	7.53%
IPP Thermal	17	2.27%
SPP Wind	20	2.60%
CEB Wind	22	2.93%
Mini Hydro (Telemetered)	40	5.25%
IPP Solar(Bulk-10MW)	5	0.71%
IPP Waste heat + BMP	6	0.74%
Total	759	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,908	25.68%
CEB Coal	4,169	36.82%
CEB Thermal Oil	1,951	17.23%
IPP Thermal	1,112	9.82%
SPP Wind	345	3.05%
CEB Wind	354	3.13%
Mini Hydro (Telemetered)	291	2.57%
IPP Solar(Bulk-10MW)	88	0.78%
IPP Waste heat	105	0.93%
Total	11,323	

3. CEB owned Thermal Plant Dispatch

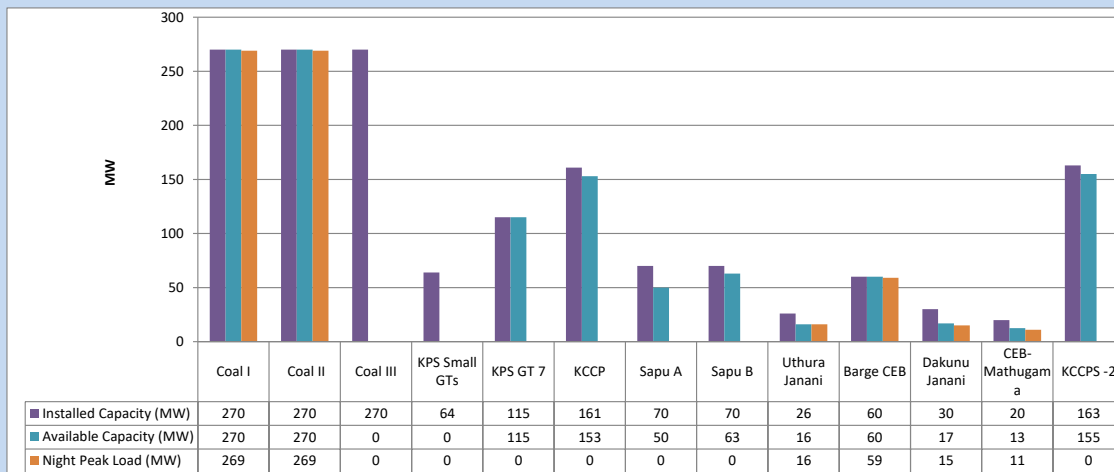
October 21, 2023



Available Generation is estimated based on plant availability at 6.00am on

October 22, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

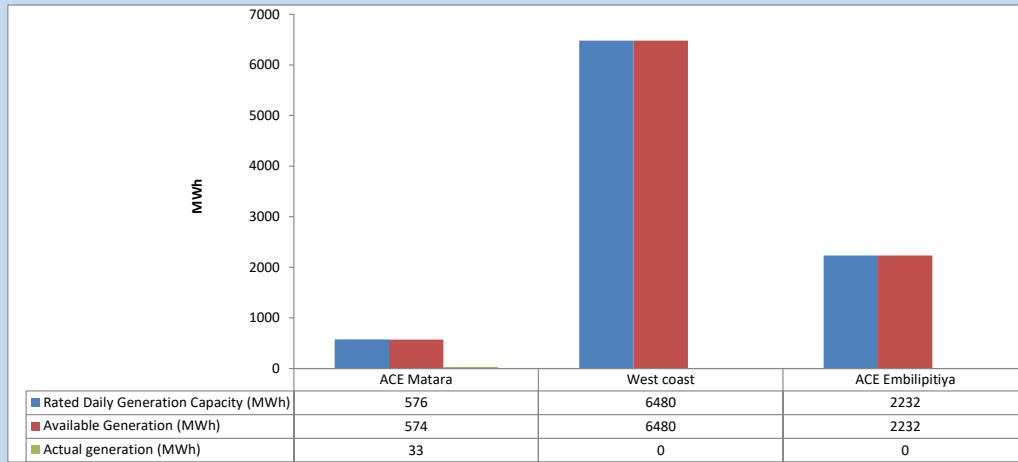


Plant availability is recorded at 6.00 am on

October 22, 2023

5. IPP owned Thermal Plant Dispatch

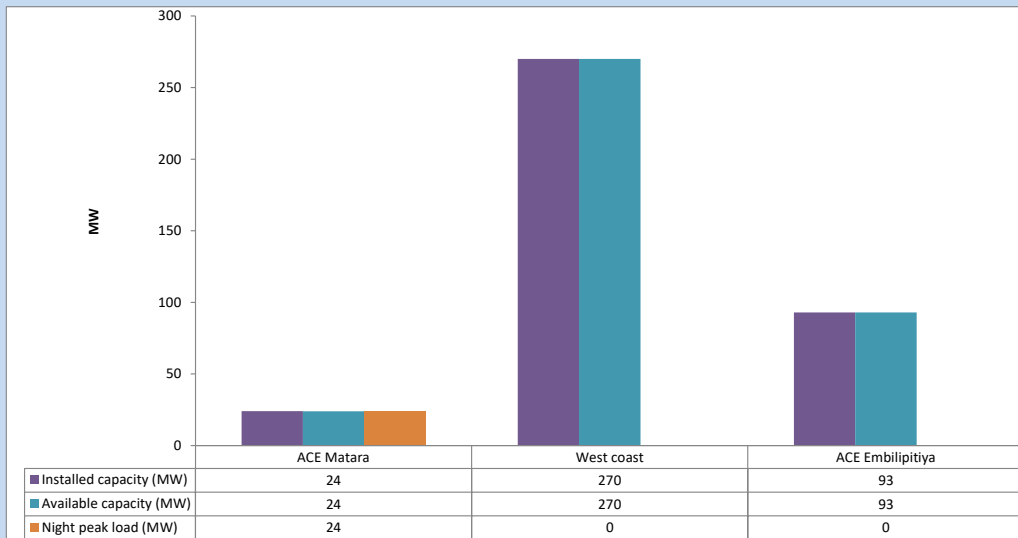
October 21, 2023



Available Generation is estimated based on plant availability at 6.00am on

October 22, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

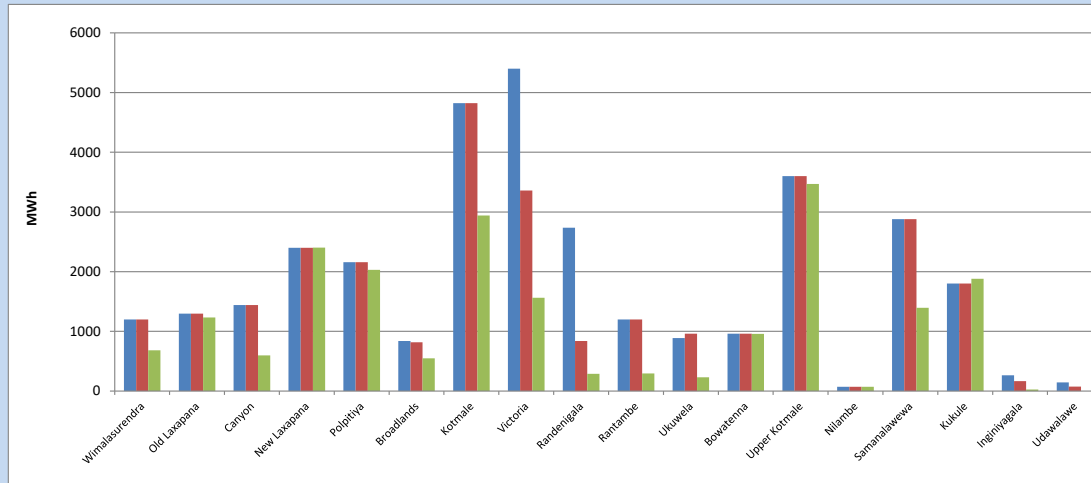


Plant availability is recorded at 6.00 am on

October 22, 2023

7. Major Hydro Plant Dispatch

October 21, 2023

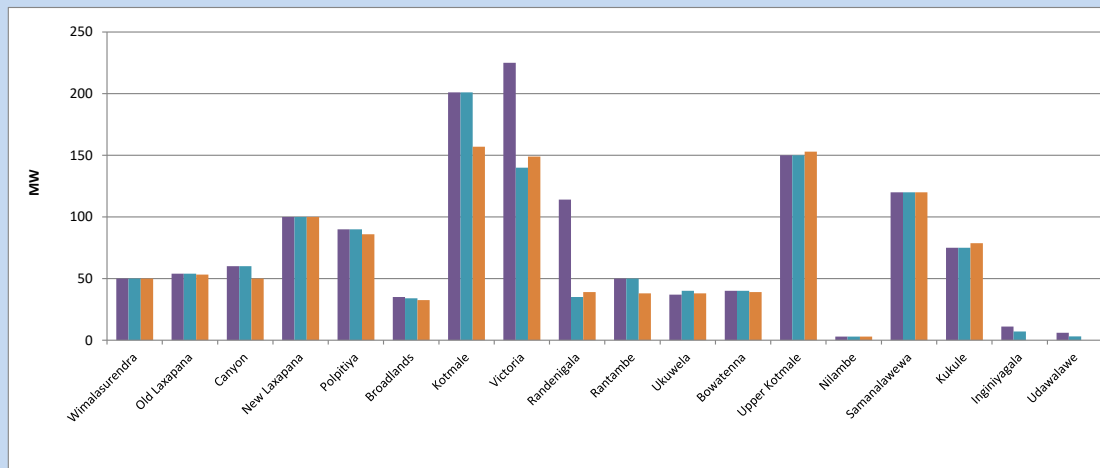


Available Generation is estimated based on plant availability at 6.00am on October 22, 2023
Broadlands power plant is operating in the Commissioning Stage

October 22, 2023

8. Major Hydro Plant Loading at Night Peak

October 21, 2023



Plant availability is recorded at 6.00 am on October 22, 2023
Broadlands power plant is operating in the Commissioning Stage

October 22, 2023

9. Summary of Major Plant performance

Table 05

Plant	Installed Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	682
Old Laxapana	54	54	53	1,232
Canyon	60	60	50	597
New Laxapana	100	100	100	2,402
Polpitiya	90	90	86	2,030
Broadlands	35	34	33	547
Kotmale	201	201	157	2,940
Victoria	225	140	149	1,564
Randenigala	114	35	39	290
Rantambe	50	50	38	294
Ukuwela	37	40	38	232
Bowatenna	40	40	39	957
Upper Kotmale	150	150	153	3,470
Nilambe	3	3	3	72
Samanalawewa	120	120	120	1,396
Kukule	75	75	79	1,882
Inginiyagala	11	7	0	25
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	269	5,100
Puttalam Coal II	270	270	269	5,157
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	0	0
KCCP	161	153	0	0
Sapugaskanda A	70	50	0	0
Sapugaskanda B	70	63	0	0
Uthura Janani	26	16	16	30
Barge CEB	60	60	59	208
CEB-Hambantota	30	17	15	12
CEB-Mathugama	20	13	11	9
ACE Matara	24	24	24	33
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,820	1,916	33,961

Plant availability is the availability recorded at 6 am on

October 22, 2023

10. Contribution to the Night Peak in MW

October 21, 2023

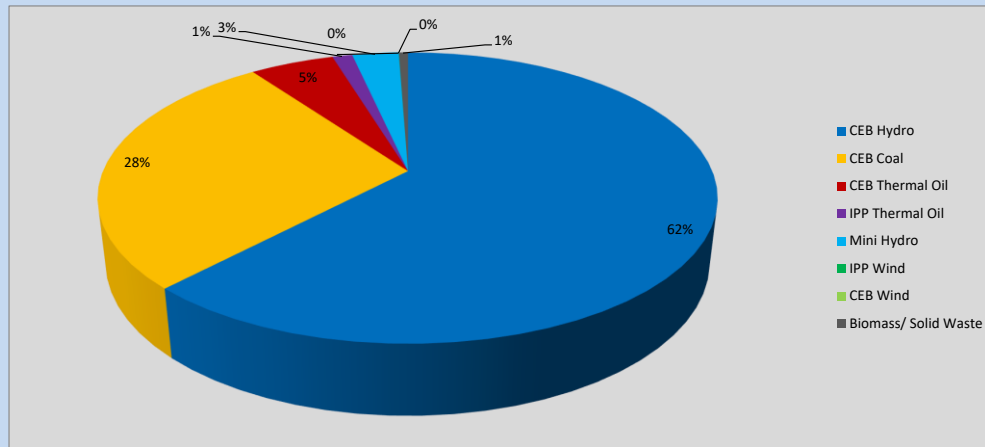


Table 06

CEB Hydro	1197	MW
CEB Coal	538	MW
CEB Thermal Oil	101	MW
IPP Thermal Oil	24	MW
Mini Hydro (Telemetered)	56	MW
IPP Wind	-0.2	MW
CEB Wind	0	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

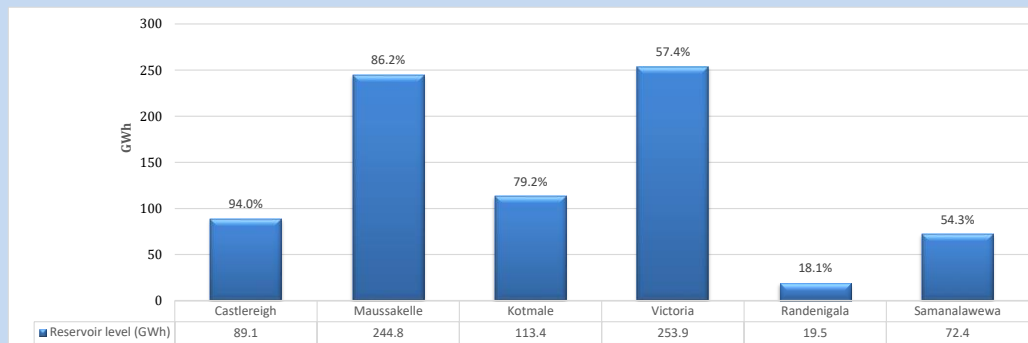
Table 07

Night Peak*	1,927	MW
Day Peak Maximum Demand	1,535	MW
Day Peak Minimum Demand	1,268	MW
Off Peak Minimum Demand	1,099	MW

Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

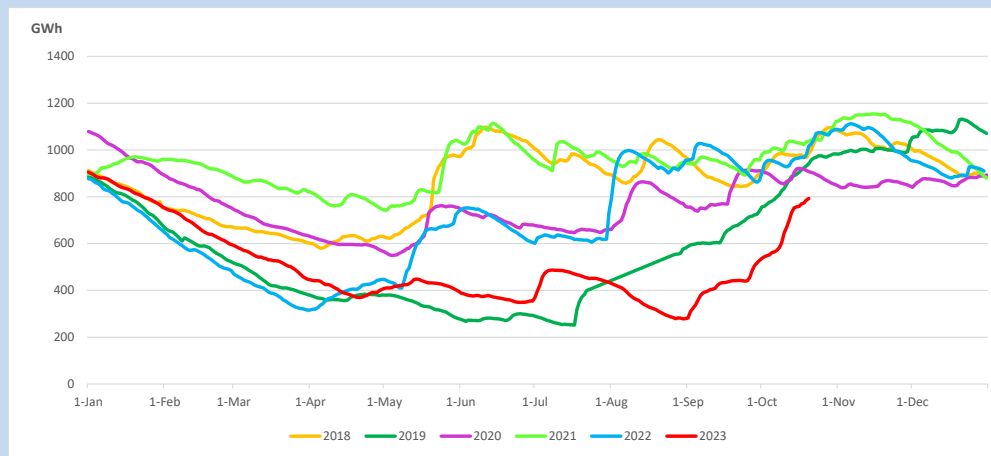
Reservoir Levels -

as at 06.00 Hr on October 22, 2023

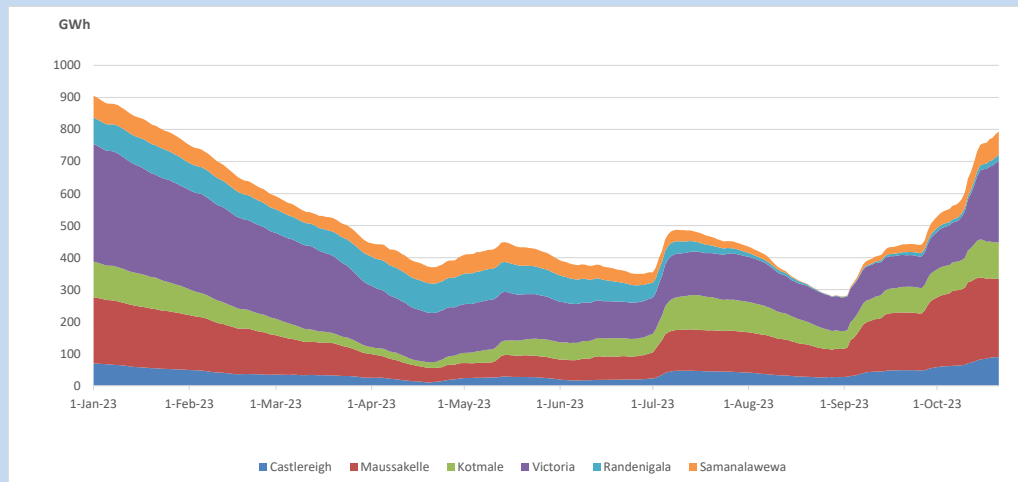


Total Reservoir Level 793.1 GWh
 % of Total capacity 65.8%

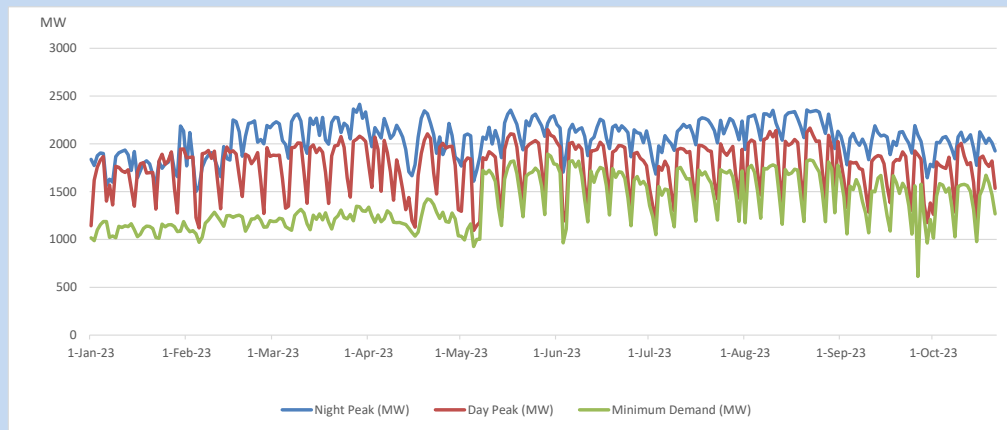
11. Comparison of Total Reservoir Storage Levels with Past Years



12. Variation of Major Hydro Reservoir Levels in the current year (GWh)



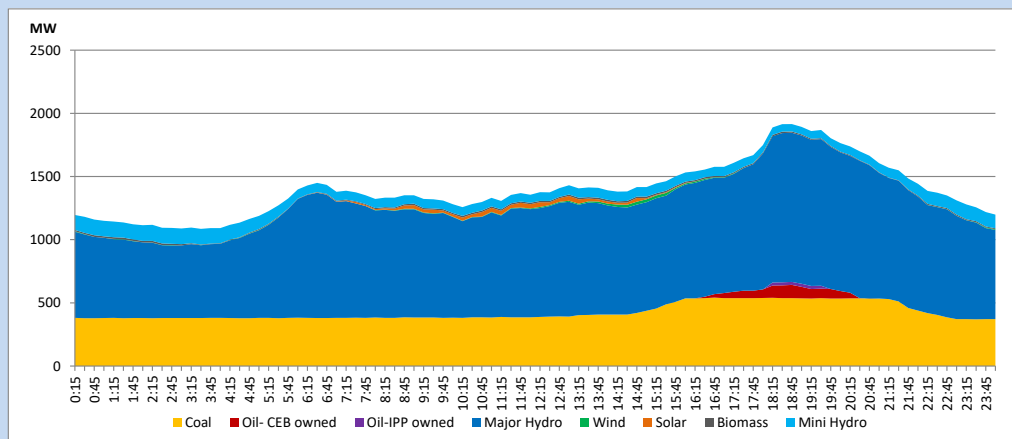
13. Variation of Demand during the current year



The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve

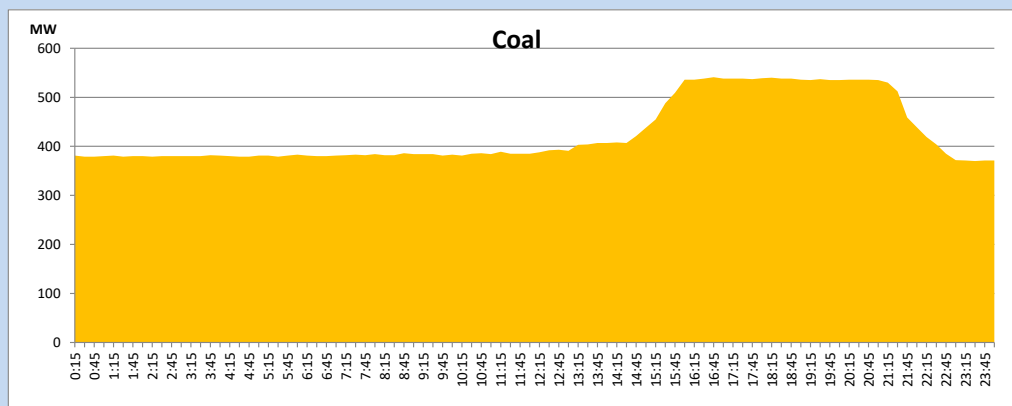
October 21, 2023



Solar and wind data is based on Telemetered Power Stations only

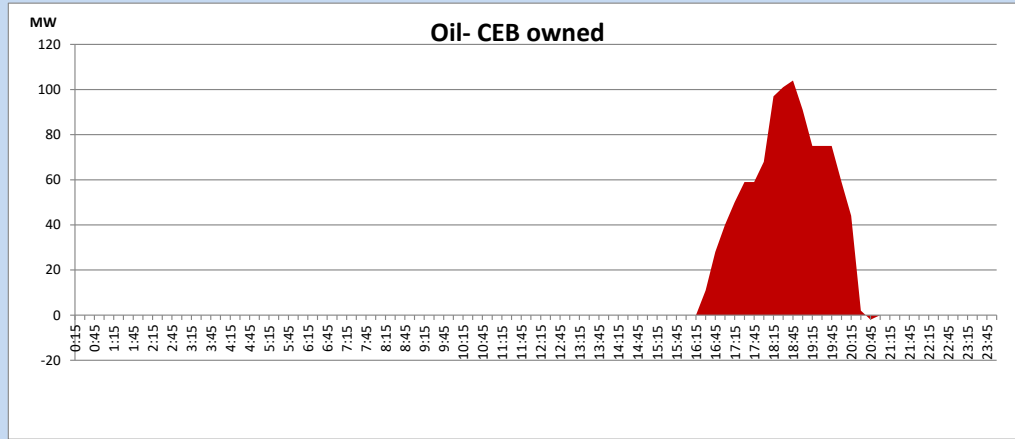
Coal Generation during

October 21, 2023



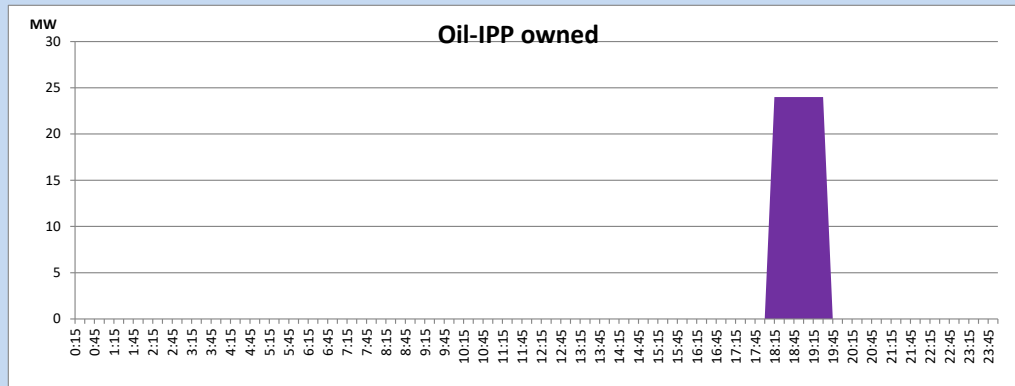
CEB Oil Plant Generation during

October 21, 2023



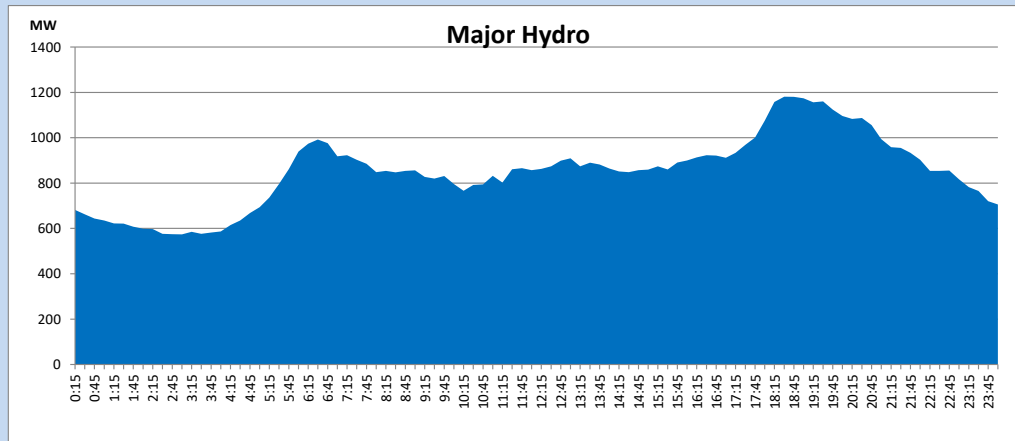
IPP Oil Plant Generation during

October 21, 2023



Major Hydro Generation during

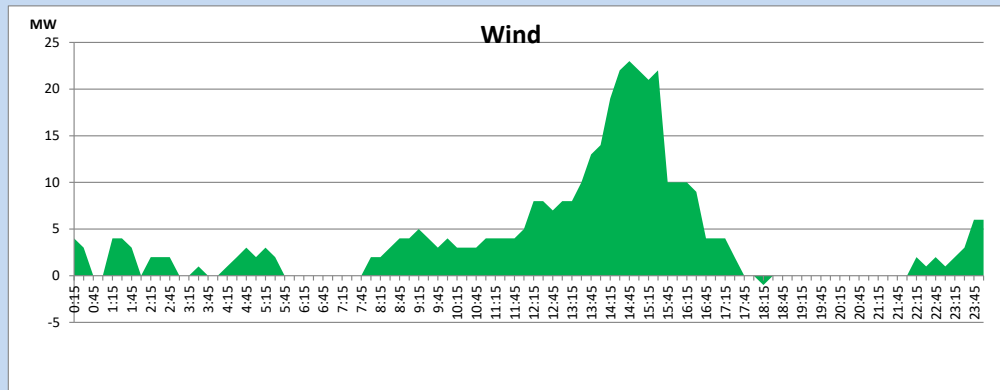
October 21, 2023



Wind Generation during

October 21, 2023

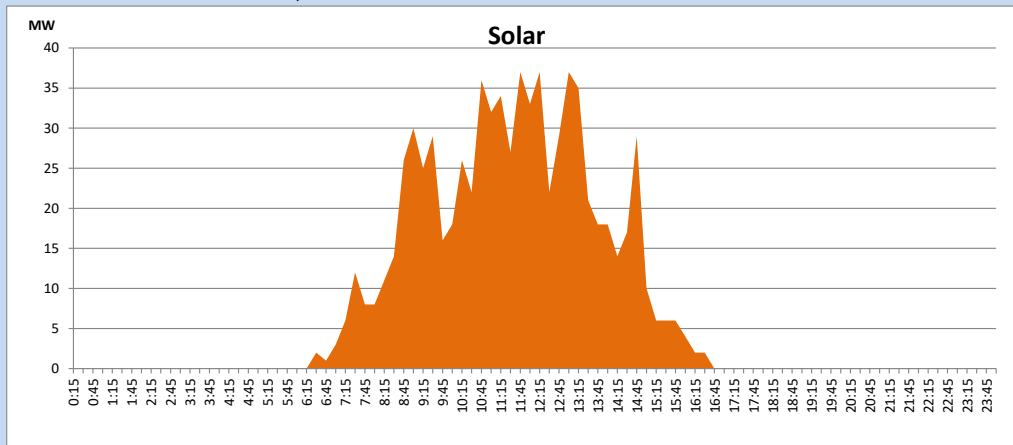
Based on Telemetered Power Stations only



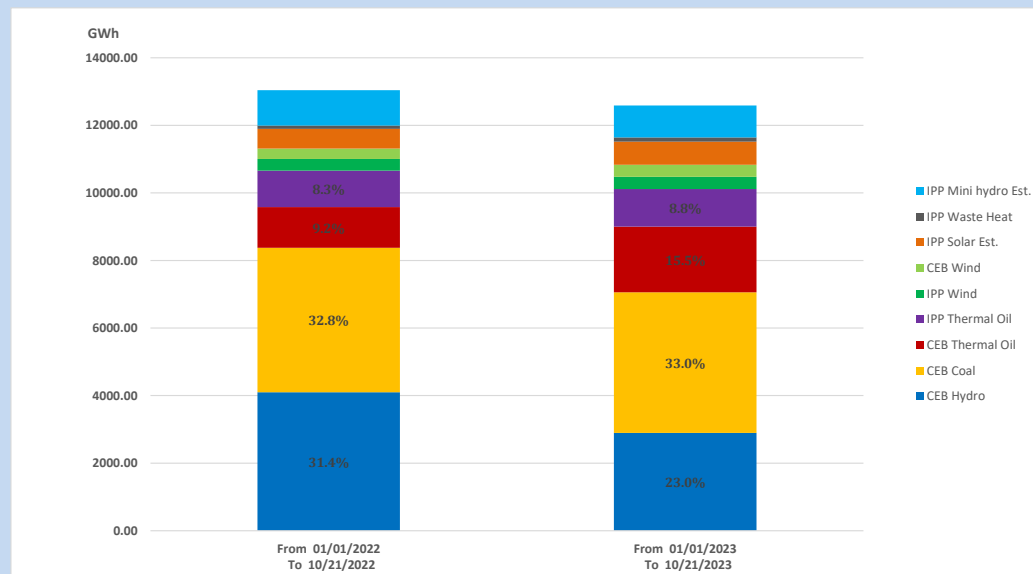
Solar Generation during

October 21, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2022 To 10/21/2022
 From 01/01/2023 To 10/21/2023

13041 GWh
 12589 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants (figures have been adjusted based on the data from the CEB monthly review reports.)

Thermal Plant Fuel types

Table 08

Power Station	Primary Fuel
CEB Thermal	
Sapugaskanda 1	Heavy Fuel
Sapugaskanda 2	Heavy Fuel
Kelanitissa Small Gas Turbines	Auto Diesel
GT 7 - Kelanitissa	Auto Diesel
Kelanitissa CCY	Naphtha or Diesel
Lakvijaya 1	Coal
Lakvijaya 2	Coal
Lakvijaya 3	Coal
Uthuru Janani	Heavy Fuel
Barge CEB	Heavy Fuel
KCCPS -2	Auto Diesel

Power Station	Primary Fuel
Private Thermal	
West Coast	Auto Diesel / Heavy Fuel
ACE Matara	Heavy Fuel
ACE Embilipitiya	Heavy Fuel

Major Incidents reported during the day

October 21, 2023

- 1) Old Laxapana stage 01 tripped at 11:14hrs rejecting 30MW from the system due to the tripping of generation T/F. The Old Laxapana stage 01 resumed generation at 12:36hrs.
- 2) Mahiyanganaya 132/33kV both T/Fs tripped only from the 33kV side at 11:46hrs and 14:38hrs, indicating the error "Neutral TOC" causing all feeders of Mahiyanganaya GSS to be dead. In the first incident, T/Fs were normalized at 12:24hrs, and all affected feeders
- 3) Norton pond spilling started at 13:25hrs and spilling continues to the present hour
- 4) Kukule pond spilling stopped at 04:50 hrs (22.10.2023)