

Generation and Reservoirs Statistics

October 31, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

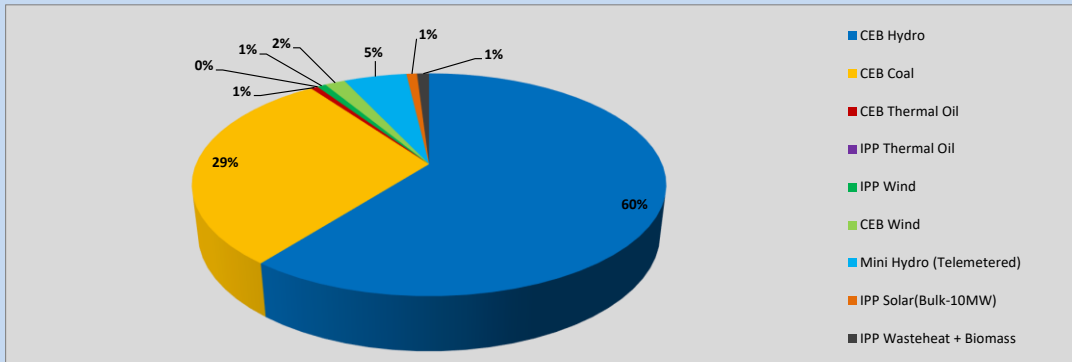


Table 01

	Generation (MWh)
CEB Hydro	22,083
CEB Coal	10,759
CEB Thermal Oil	207
IPP Thermal Oil	-
IPP Wind	263
CEB Wind	604
Mini Hydro (Telemetered)	1,873
IPP Solar (Bulk)	315
IPP Waste heat + Biomass	359
Total Generation (Excluding estimated figures)	36,463
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2987
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
Total Generation (Including estimated figures)	41,684

* 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

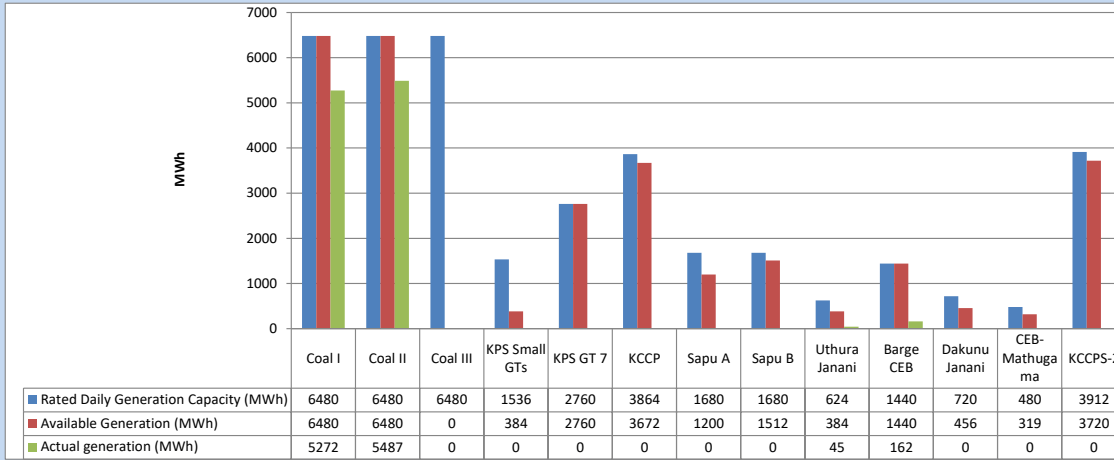
Category	Dispatch (GWh)	Percentage
CEB Hydro	548	49.49%
CEB Coal	356	32.17%
CEB Thermal Oil	60	5.42%
IPP Thermal	19	1.73%
SPP Wind	21	1.92%
CEB Wind	24	2.21%
Mini Hydro (Telemetered)	58	5.21%
IPP Solar(Bulk-10MW)	8	0.76%
IPP Waste heat + BMP	9	0.79%
Total	1,108	

Table 04 - Current Year

Category	Dispatch (GWh)	Percentage
CEB Hydro	3,114	26.68%
CEB Coal	4,276	36.63%
CEB Thermal Oil	1,954	16.74%
IPP Thermal	1,114	9.54%
SPP Wind	347	2.97%
CEB Wind	356	3.05%
Mini Hydro (Telemetered)	309	2.65%
IPP Solar(Bulk-10MW)	91	0.78%
IPP Waste heat	108	0.93%
Total	11,672	

3. CEB owned Thermal Plant Dispatch

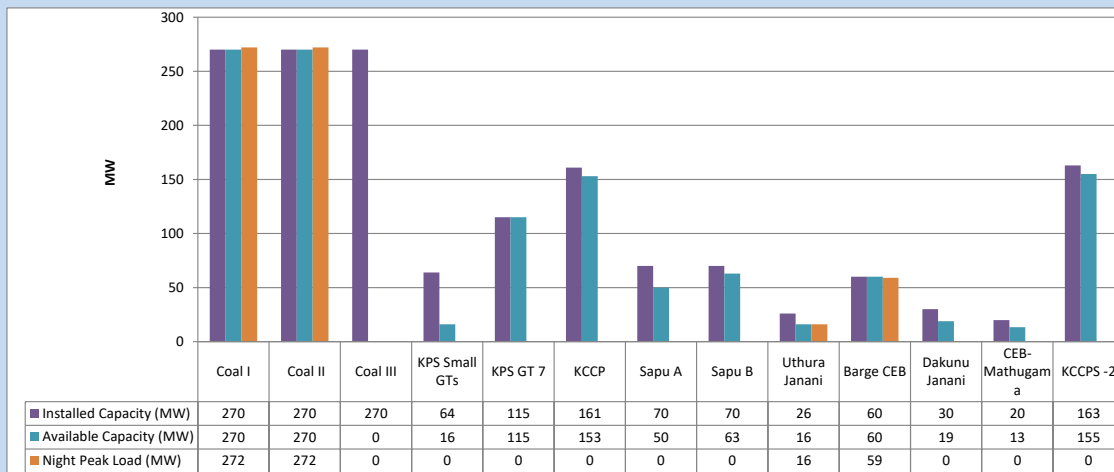
October 31, 2023



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

November 1, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

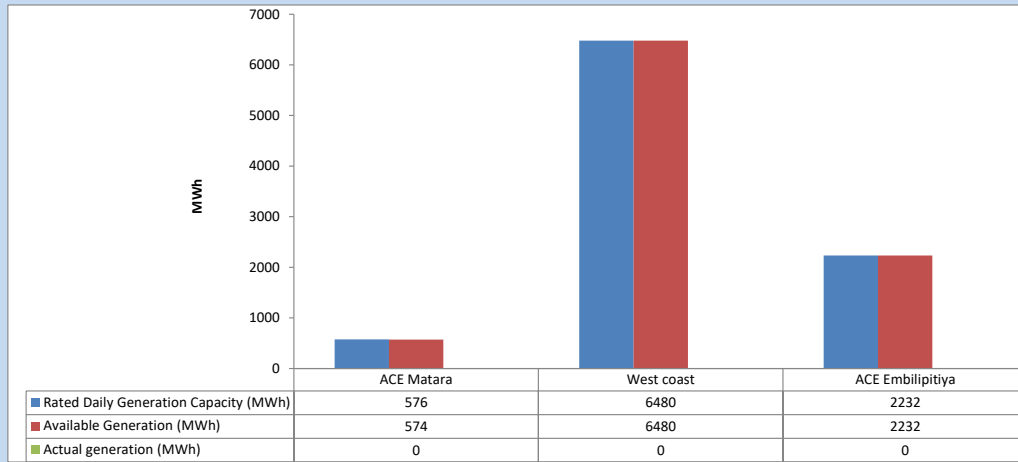


Plant availability is recorded at 6.00 am on

November 1, 2023

5. IPP owned Thermal Plant Dispatch

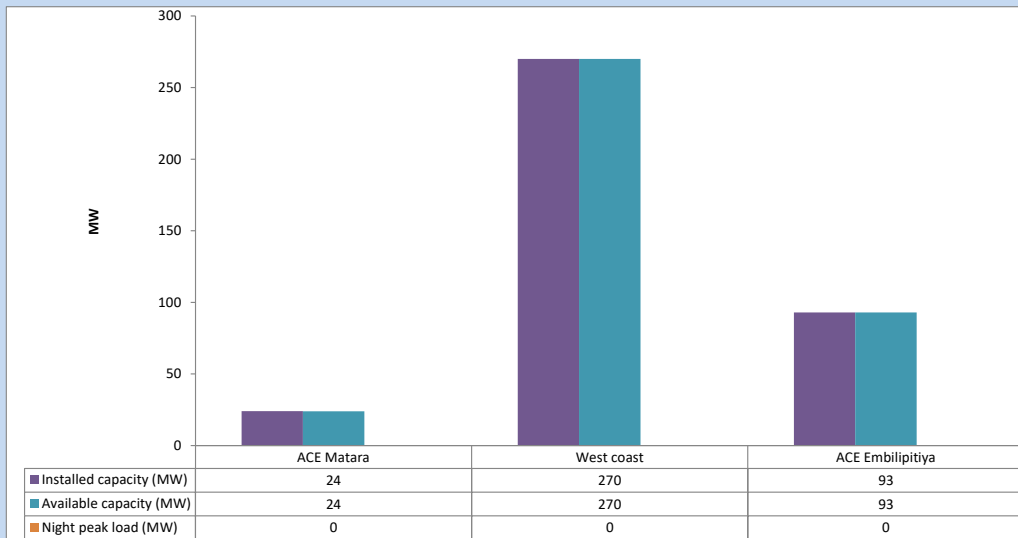
October 31, 2023



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

November 1, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

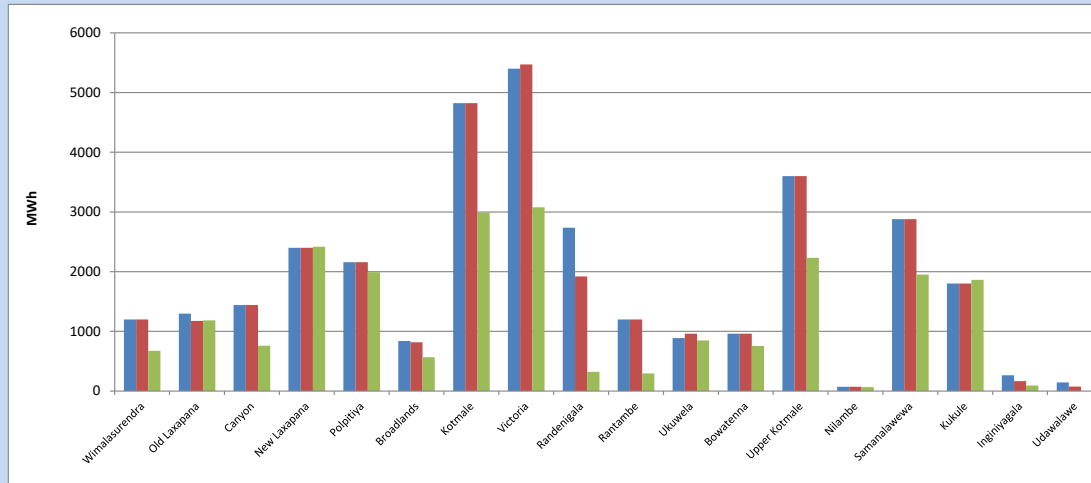


Plant availability is recorded at 6.00 am on

November 1, 2023

7. Major Hydro Plant Dispatch

October 31, 2023

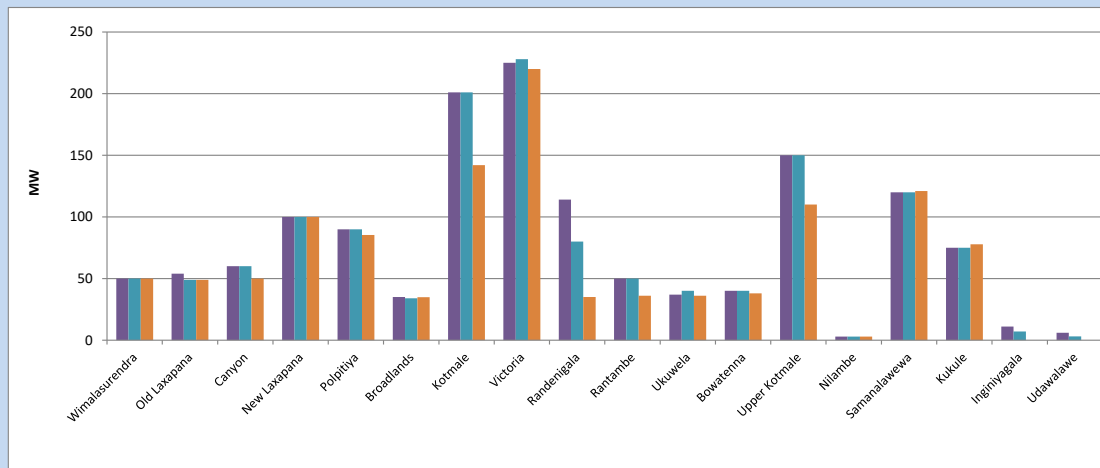


Available Generation is estimated based on plant availability at 6.00am on November 1, 2023
Broadlands power plant is operating in the Commissioning Stage

November 1, 2023

8. Major Hydro Plant Loading at Night Peak

October 31, 2023



Plant availability is recorded at 6.00 am on November 1, 2023
Broadlands power plant is operating in the Commissioning Stage

November 1, 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	673
Old Laxapana Canyon	54	49	49	1,183
New Laxapana	60	60	50	760
Polpitiya	100	100	100	2,419
Broadlands	90	90	85	1,990
Kotmale	35	34	35	566
Victoria	201	201	142	2,990
Randenigala	225	228	220	3,077
Rantambe	114	80	35	322
Ukuwela	50	50	36	294
Bowatenna	37	40	36	849
Upper Kotmale	40	40	38	757
Nilambe	150	150	110	2,232
Samanalawewa	3	3	3	65
Kukule	120	120	121	1,952
Inginiyagala	75	75	78	1,862
Udawalawe	11	7	0	92
Puttalam Coal I	6	3	0	0
Puttalam Coal II	270	270	272	5,272
Puttalam Coal III	270	270	272	5,487
KPS Small GTs	270	0	0	0
KPS GT 7	64	16	0	0
KCCP	115	115	0	0
Sapugaskanda A	161	153	0	0
Sapugaskanda B	70	50	0	0
Uthura Janani	70	63	0	0
Barge CEB	26	16	16	45
CEB-Hambantota	60	60	59	162
CEB-Mathugama	30	19	0	0
ACE Matara	20	13	0	0
Asia Power	24	24	0	0
KCCPS -2	50	0	0	0
West Coast	163	155	0	0
Nothern Power	270	270	0	0
ACE Embilipitiya	36	0	0	0
Total	93	93	0	0
Total	3,483	2,967	1,938	36,463

Plant availability is the availability recorded at 6 am on

November 1, 2023

10. Contribution to the Night Peak in MW

October 31, 2023

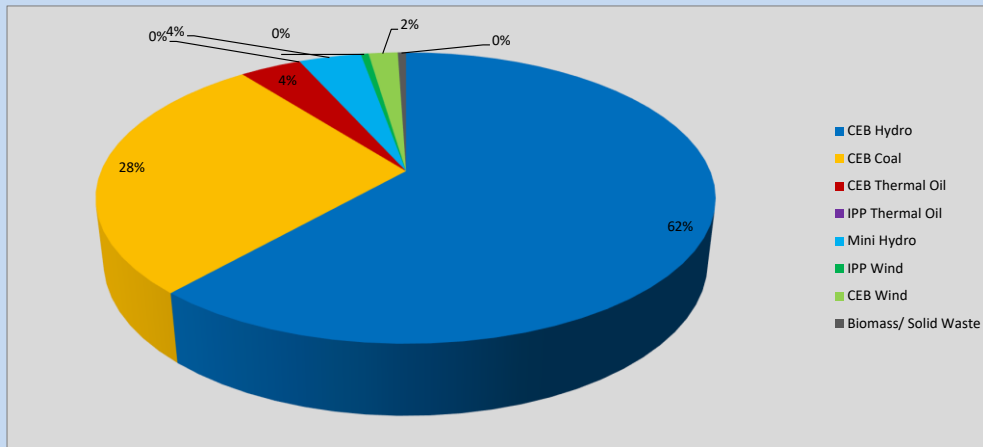


Table 06

CEB Hydro	1201	MW
CEB Coal	544	MW
CEB Thermal Oil	75	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	76	MW
IPP Wind	9.5	MW
CEB Wind	35.5	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

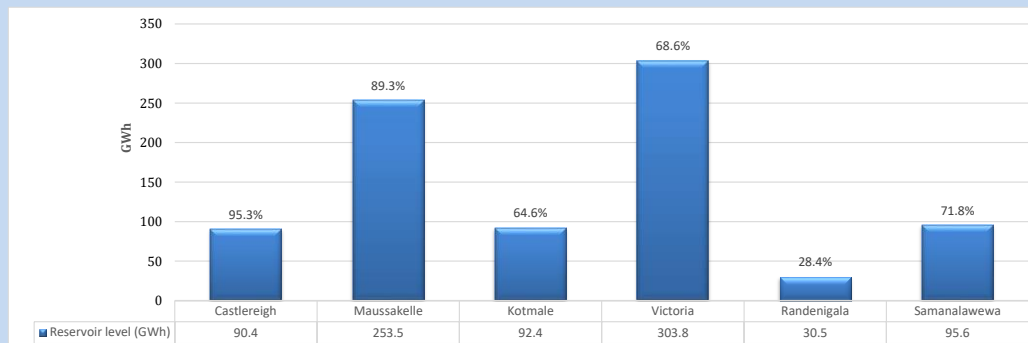
Table 07

Night Peak*	1,951	MW
Day Peak Maximum Demand	1,832	MW
Day Peak Minimum Demand	1,474	MW
Off Peak Minimum Demand	1,068	MW

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

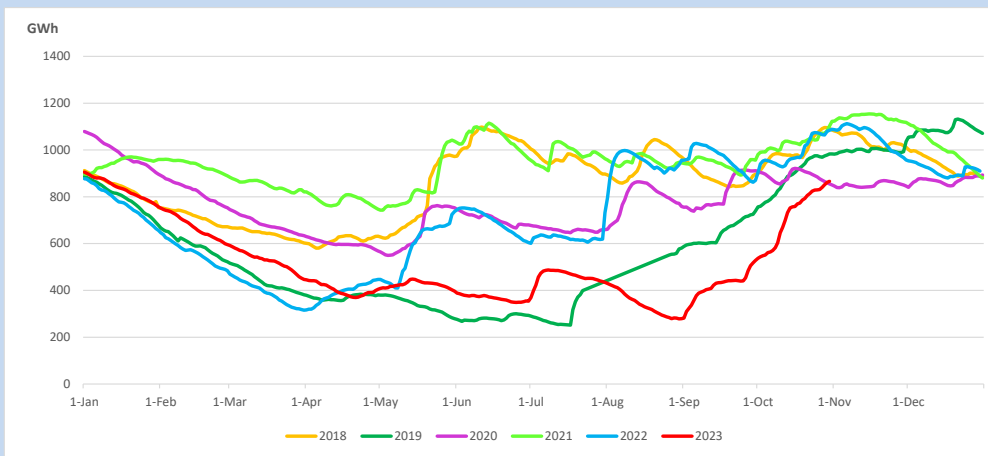
Reservoir Levels -

as at 06.00 Hr on November 1, 2023

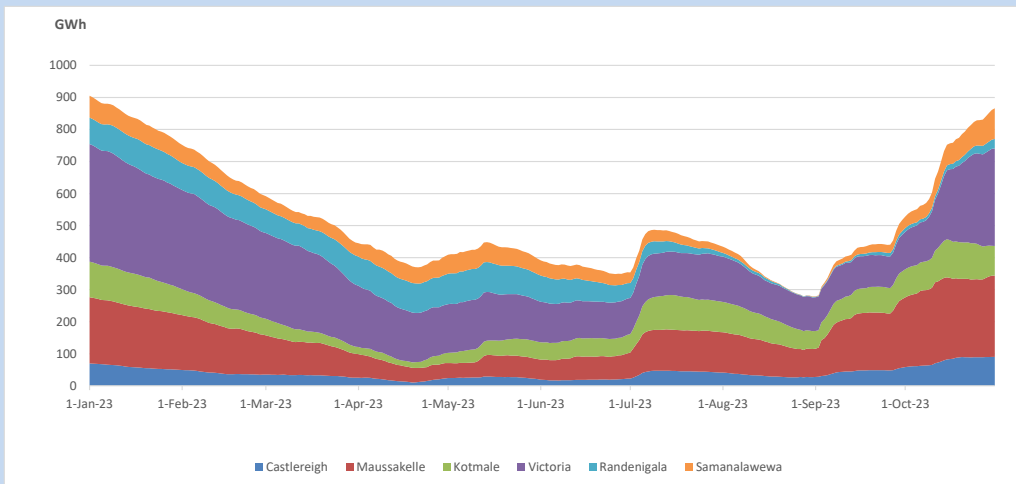


Total Reservoir Level 866.2 GWh
% of Total capacity 71.9%

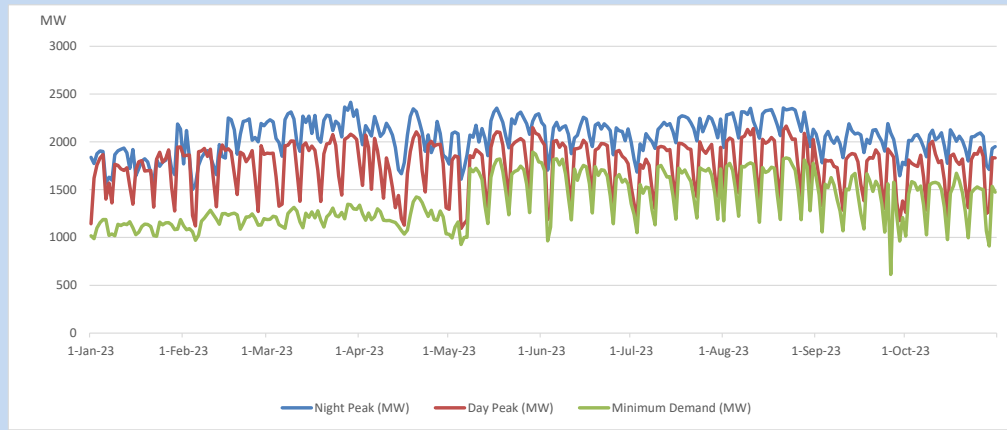
11. Comparison of Total Reservoir Storage Levels with Past Years



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



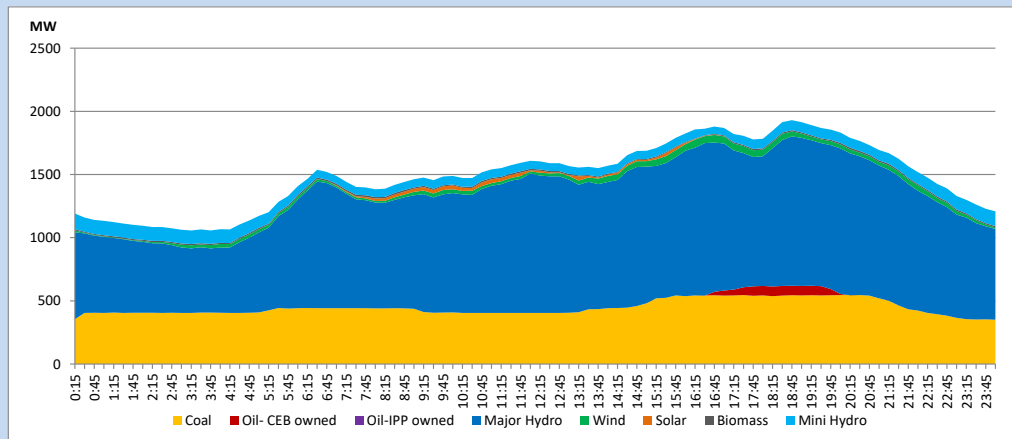
13. Variation of Demand during the current year



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

14. Daily Load Curve

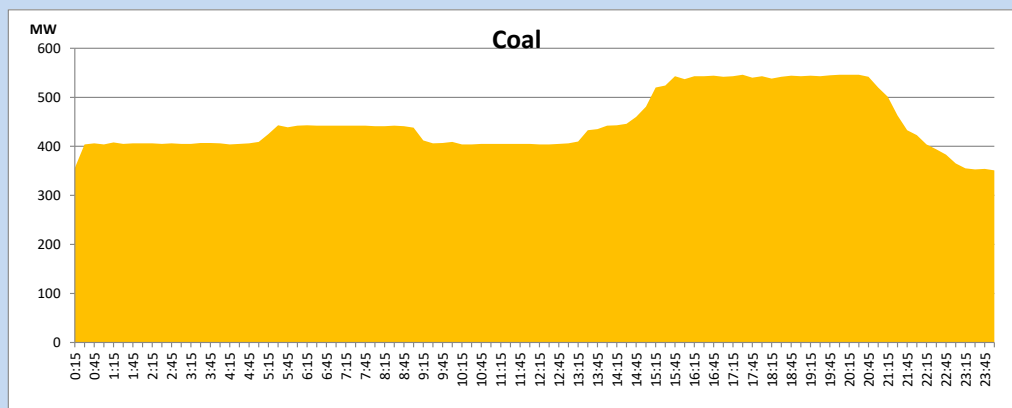
October 31, 2023



Solar and wind data is based on Telemetered Power Stations only

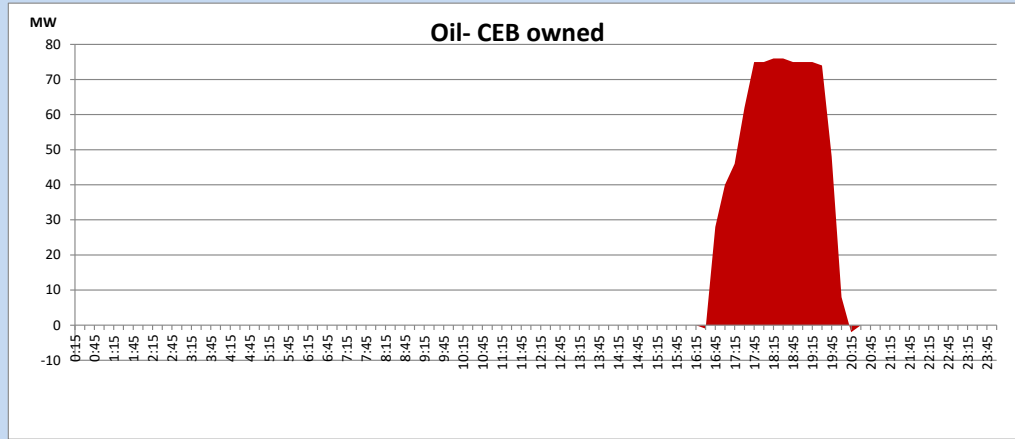
Coal Generation during

October 31, 2023



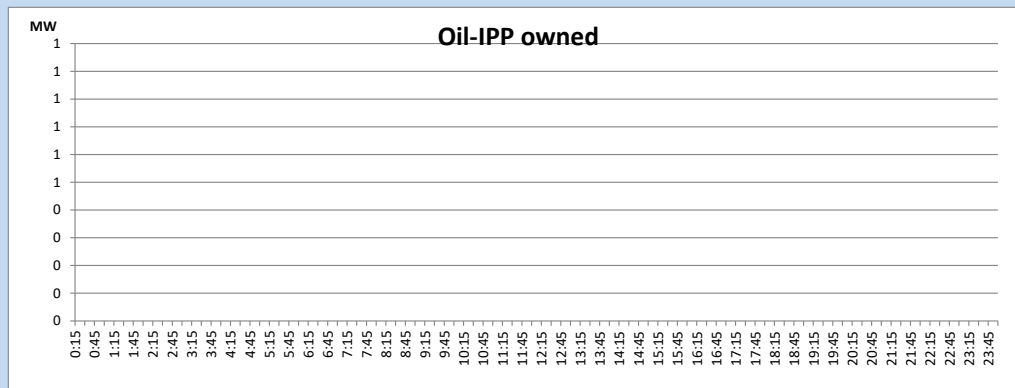
CEB Oil Plant Generation during

October 31, 2023



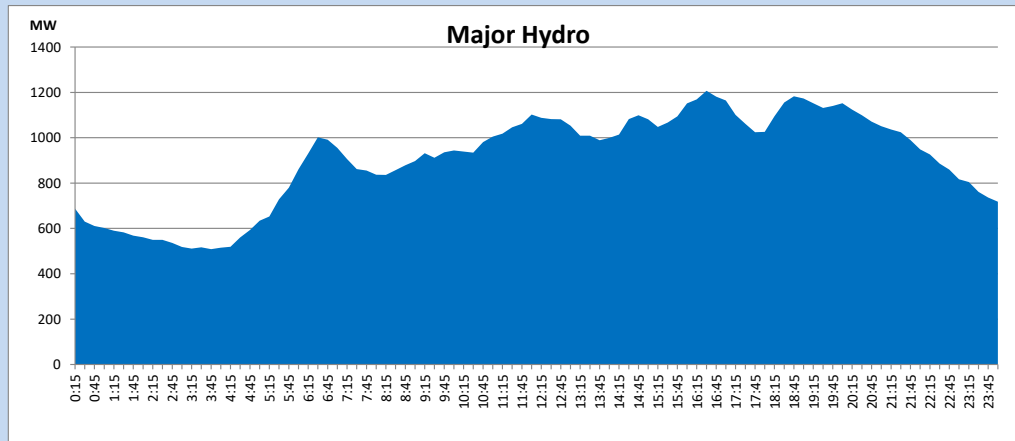
IPP Oil Plant Generation during

October 31, 2023



Major Hydro Generation during

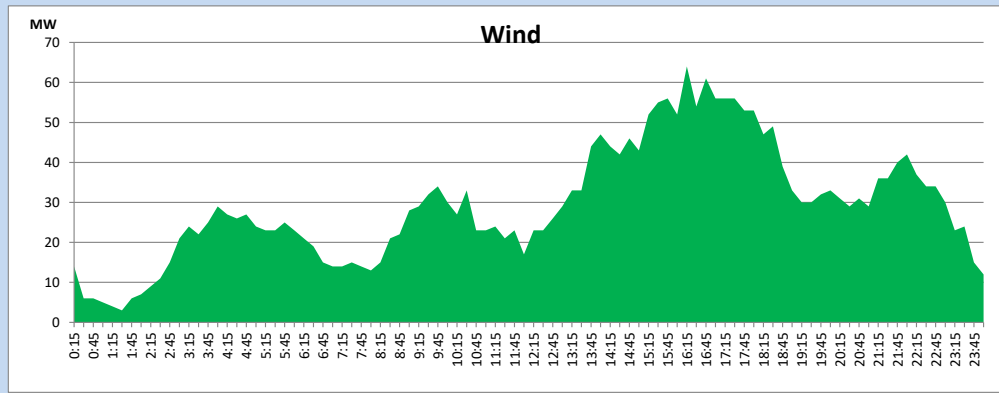
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Wind Generation during

October 31, 2023

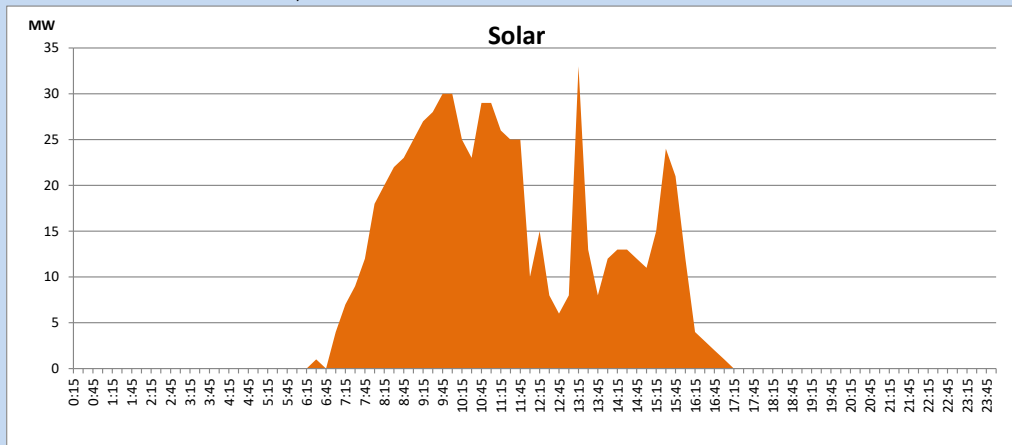
Based on Telemetered Power Stations only



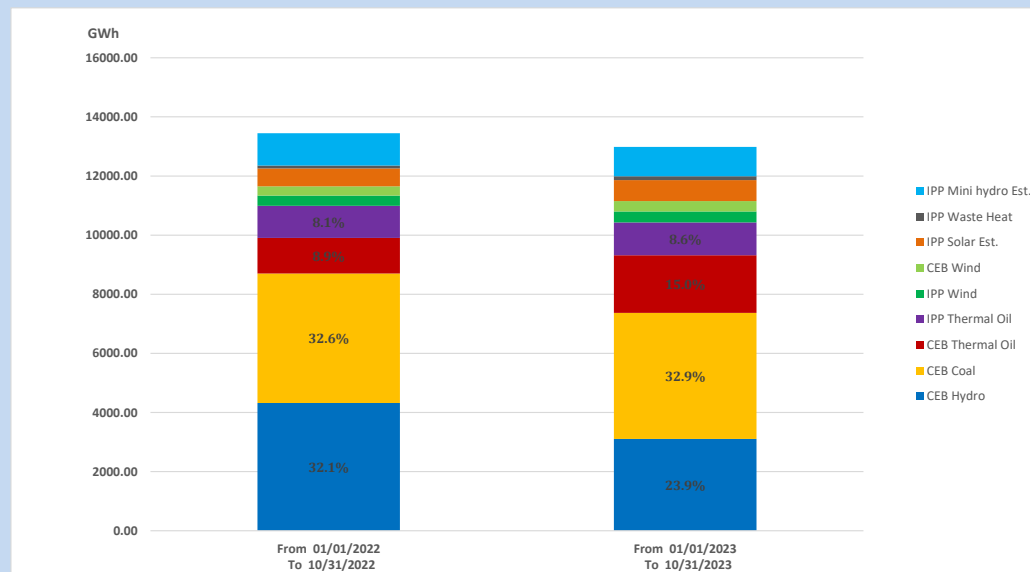
Solar Generation during

October 31, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 10/31/2022

13449 GWh

From 01/01/2023 To 10/31/2023

12988 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 31, 2023

- 1) Old Habarana 132/33kV T/F 03 and Old Habarana – New Habarana 132kV cct 01 which tripped at 02:29hrs, were normalized at 14:40hrs and 14:45hrs respectively.
- 2) Kukule pond spilling continues to the present hour.