

Generation and Reservoirs Statistics

October 22, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

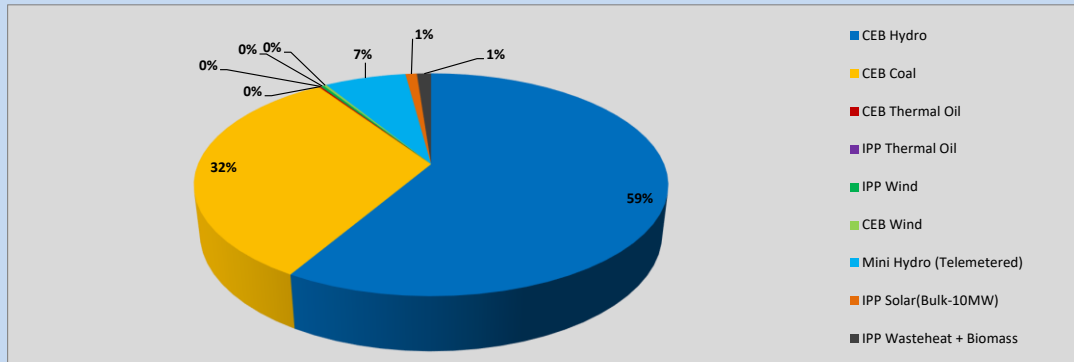


Table 01

	Generation (MWh)
CEB Hydro	17,654
CEB Coal	9,706
CEB Thermal Oil	47
IPP Thermal Oil	-
IPP Wind	83
CEB Wind	75
Mini Hydro (Telemetered)	2,008
IPP Solar (Bulk)	280
IPP Waste heat + Biomass	350
Total Generation (Excluding estimated figures)	30,203
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2852
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
Total Generation (Including estimated figures)	35,289

* 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

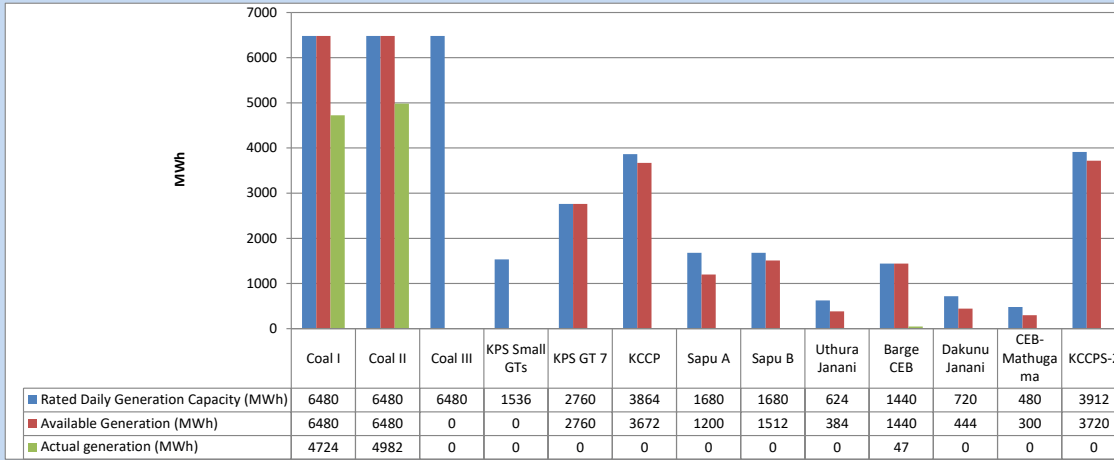
Category	Dispatch (GWh)	
CEB Hydro	360	45.57%
CEB Coal	259	32.82%
CEB Thermal Oil	57	7.24%
IPP Thermal	17	2.18%
SPP Wind	20	2.51%
CEB Wind	22	2.83%
Mini Hydro (Telemetered)	42	5.30%
IPP Solar(Bulk-10MW)	6	0.72%
IPP Waste heat + BMP	6	0.75%
Total	790	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,925	25.77%
CEB Coal	4,178	36.80%
CEB Thermal Oil	1,951	17.18%
IPP Thermal	1,112	9.79%
SPP Wind	345	3.04%
CEB Wind	354	3.12%
Mini Hydro (Telemetered)	293	2.59%
IPP Solar(Bulk-10MW)	88	0.78%
IPP Waste heat	105	0.93%
Total	11,353	

3. CEB owned Thermal Plant Dispatch

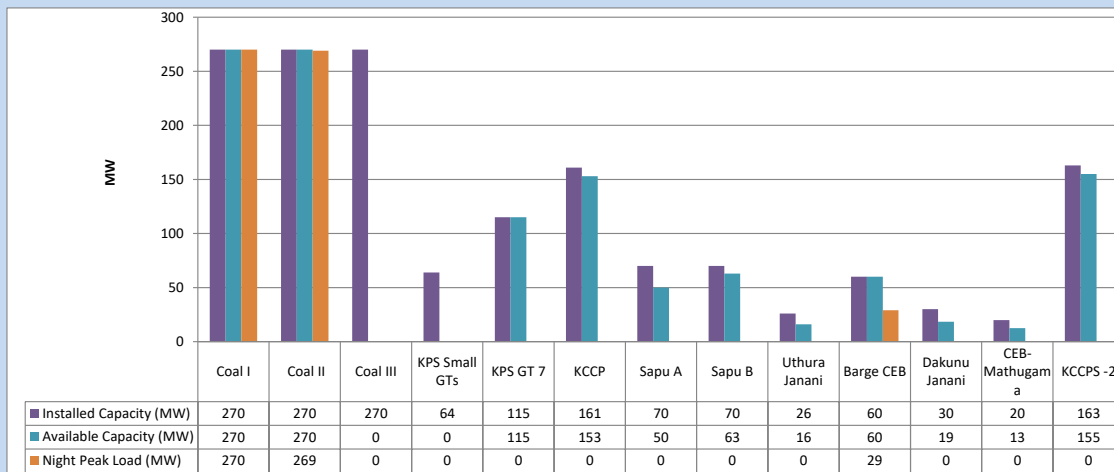
October 22, 2023



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

October 23, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

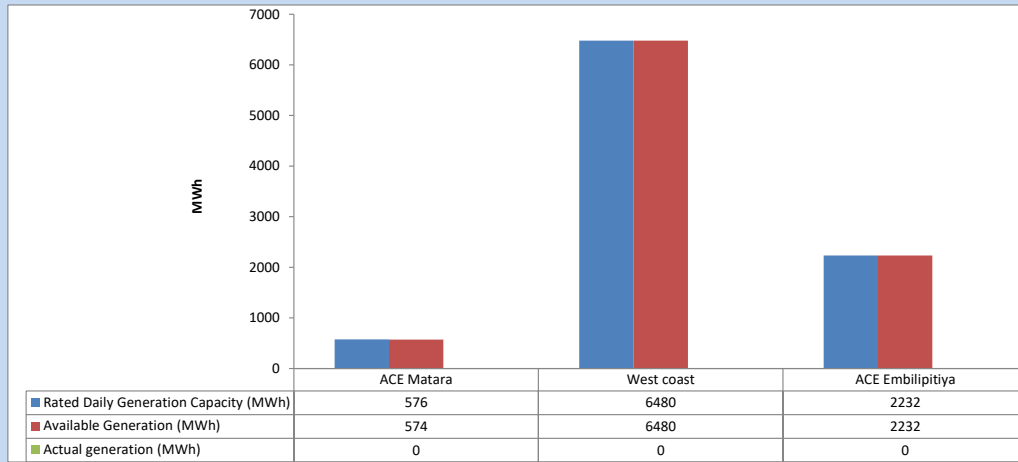


Plant availability is recorded at 6.00 am on

October 23, 2023

5. IPP owned Thermal Plant Dispatch

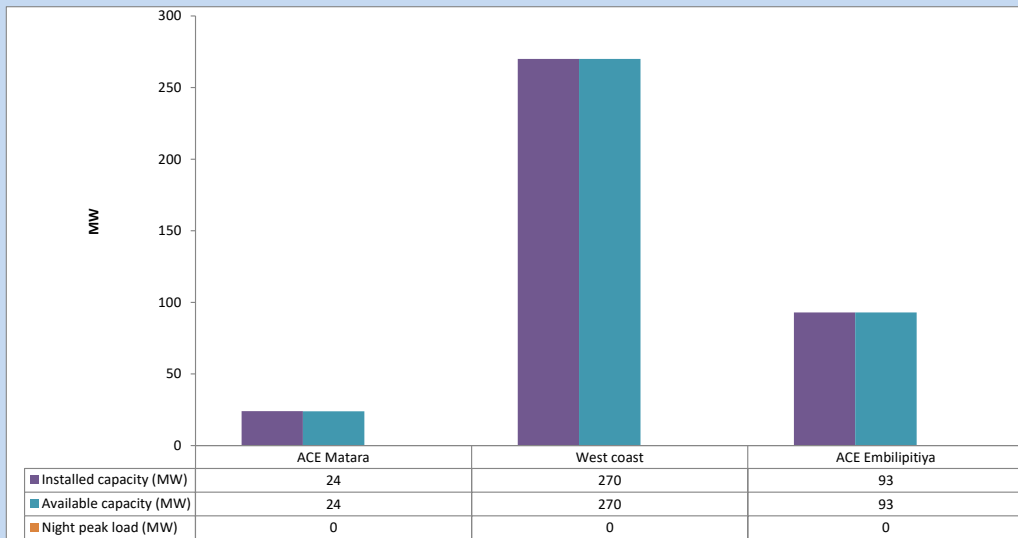
October 22, 2023



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

October 23, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

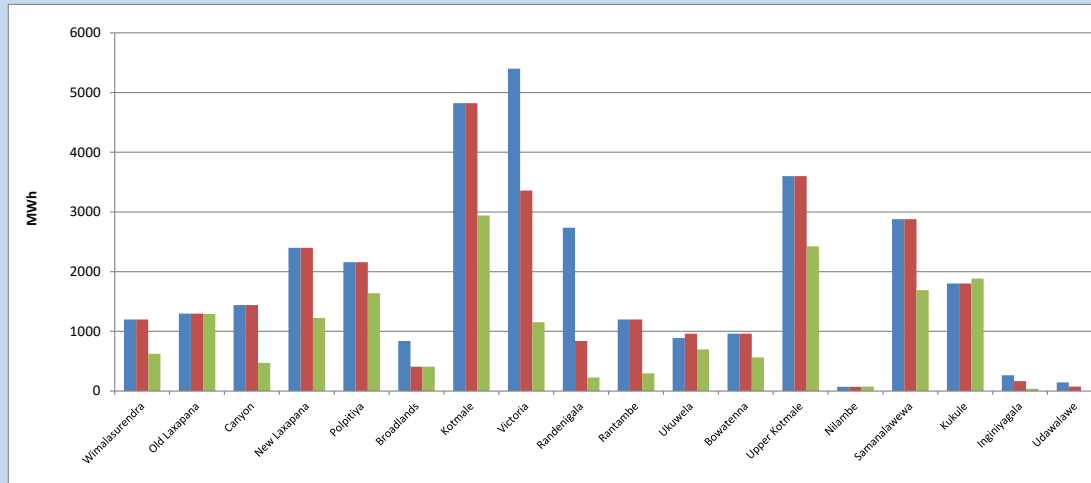


Plant availability is recorded at 6.00 am on

October 23, 2023

7. Major Hydro Plant Dispatch

October 22, 2023

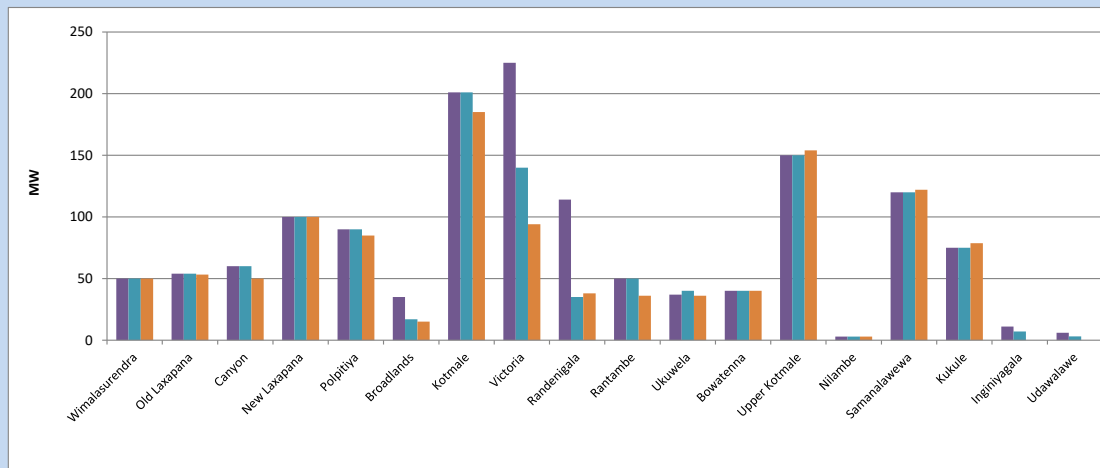


Available Generation is estimated based on plant availability at 6.00am on October 23, 2023
Broadlands power plant is operating in the Commissioning Stage

October 23, 2023

8. Major Hydro Plant Loading at Night Peak

October 22, 2023



Plant availability is recorded at 6.00 am on October 23, 2023
Broadlands power plant is operating in the Commissioning Stage

October 23, 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	625
Old Laxapana	54	54	53	1,290
Canyon	60	60	50	472
New Laxapana	100	100	100	1,224
Polpitiya	90	90	85	1,640
Broadlands	35	17	15	408
Kotmale	201	201	185	2,940
Victoria	225	140	94	1,152
Randenigala	114	35	38	229
Rantambe	50	50	36	297
Ukuwela	37	40	36	697
Bowatenna	40	40	40	565
Upper Kotmale	150	150	154	2,425
Nilambe	3	3	3	76
Samanalawewa	120	120	122	1,692
Kukule	75	75	79	1,885
Inginiyagala	11	7	0	37
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	270	4,724
Puttalam Coal II	270	270	269	4,982
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	0	0
Barge CEB	60	60	29	47
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	0	0
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	2,805	1,788	30,203

Plant availability is the availability recorded at 6 am on

October 23, 2023

10. Contribution to the Night Peak in MW

October 22, 2023

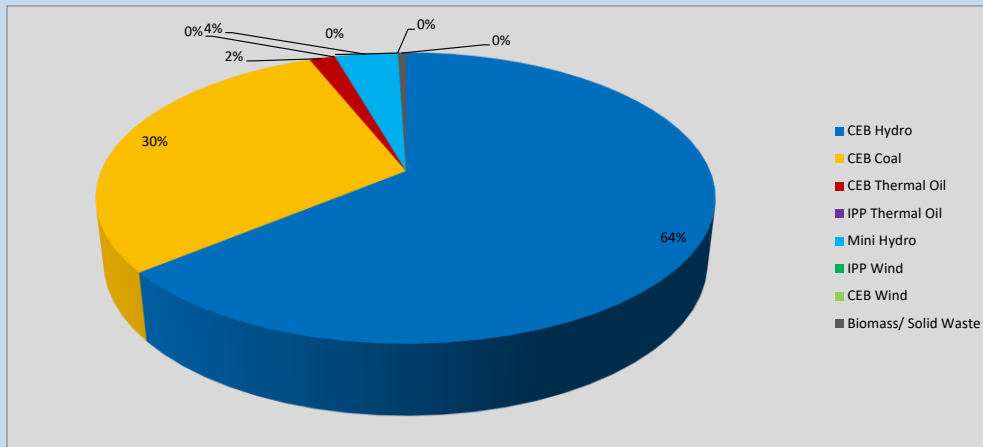


Table 06

CEB Hydro	1153	MW
CEB Coal	539	MW
CEB Thermal Oil	29	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	71	MW
IPP Wind	-0.1	MW
CEB Wind	0	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

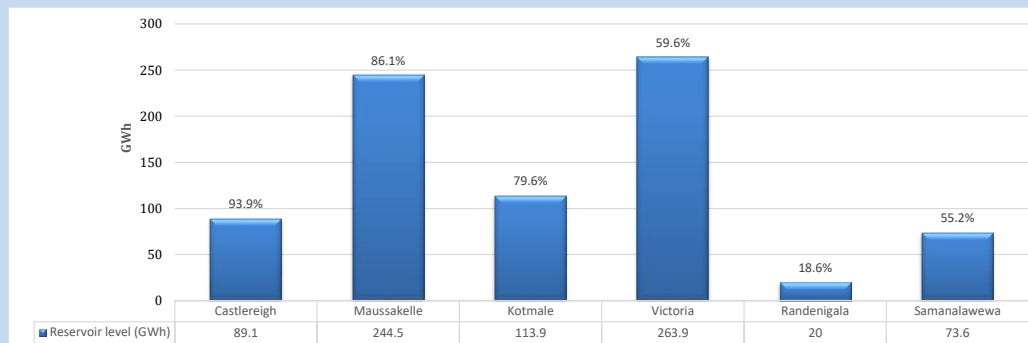
Table 07

Night Peak*	1,801	MW
Day Peak Maximum Demand	1,313	MW
Day Peak Minimum Demand	996	MW
Off Peak Minimum Demand	1,067	MW

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

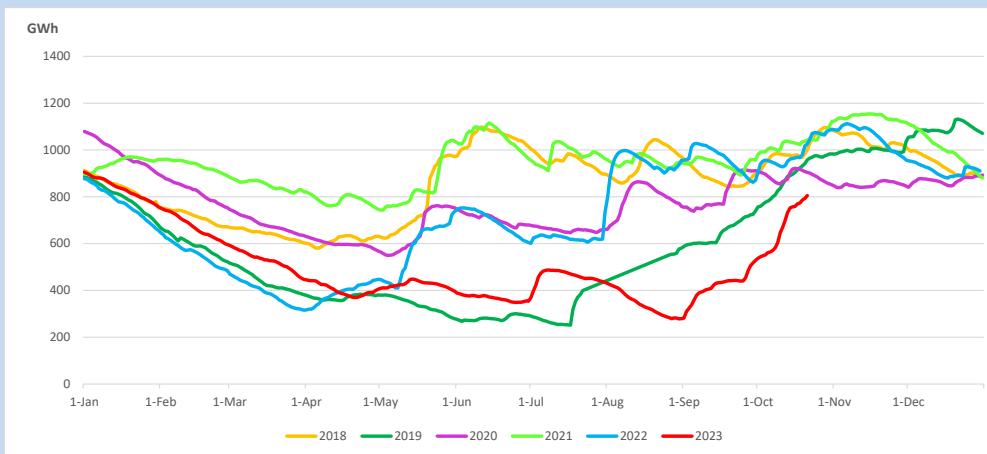
Reservoir Levels -

as at 06.00 Hr on October 23, 2023

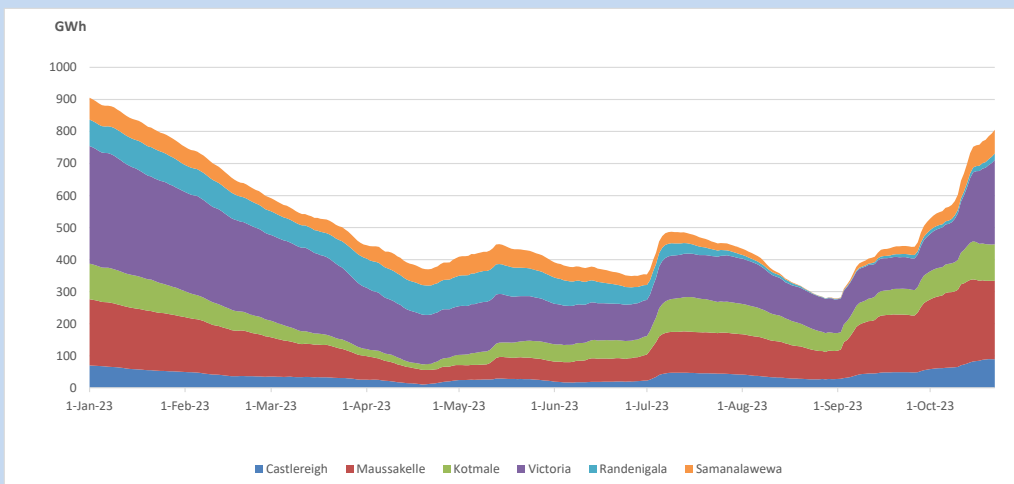


Total Reservoir Level 805 GWh
% of Total capacity 66.8%

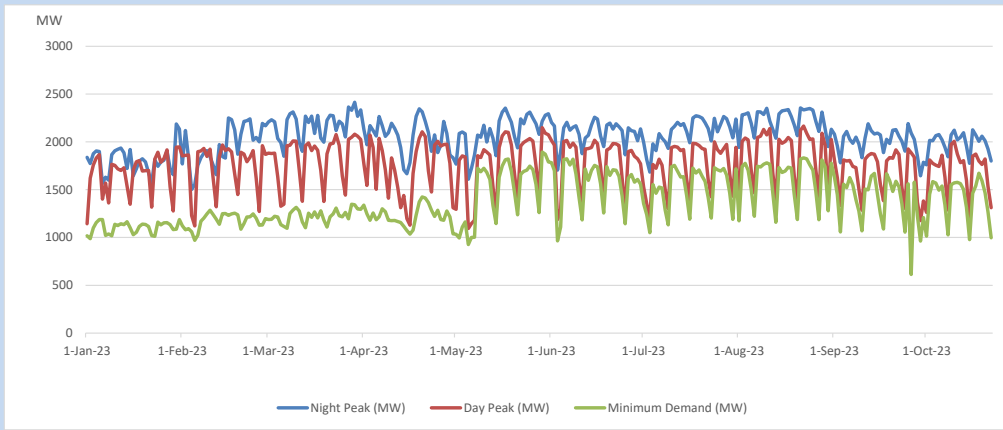
11. Comparison of Total Reservoir Storage Levels with Past Years



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



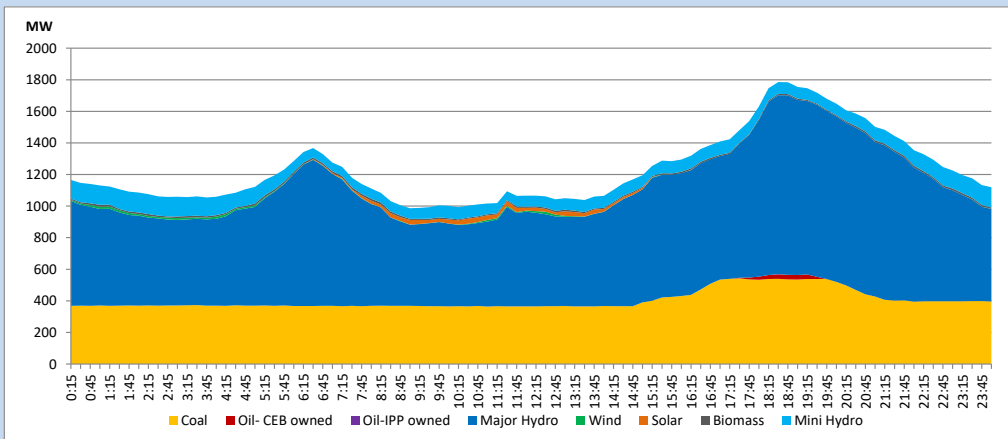
13. Variation of Demand during the current year



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

14. Daily Load Curve

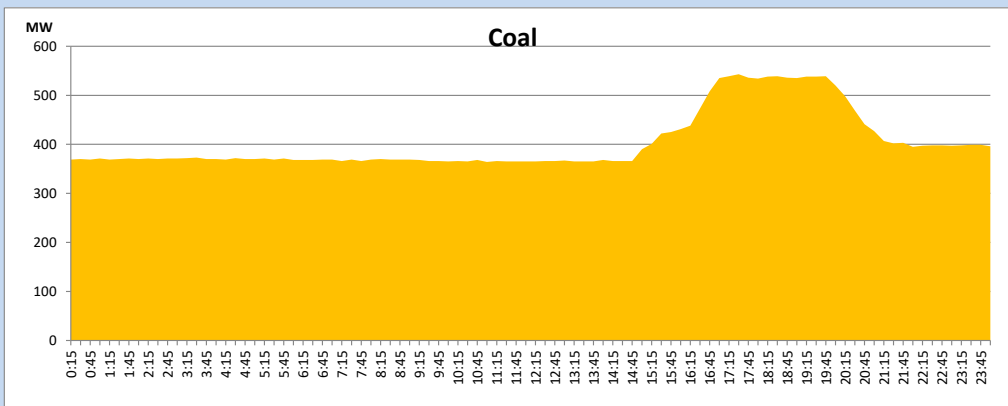
October 22, 2023



Solar and wind data is based on Telemetered Power Stations only

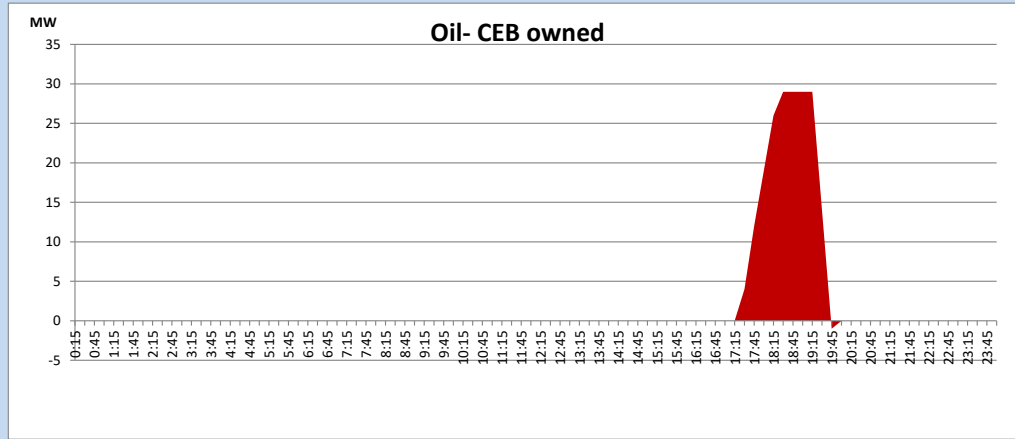
Coal Generation during

October 22, 2023



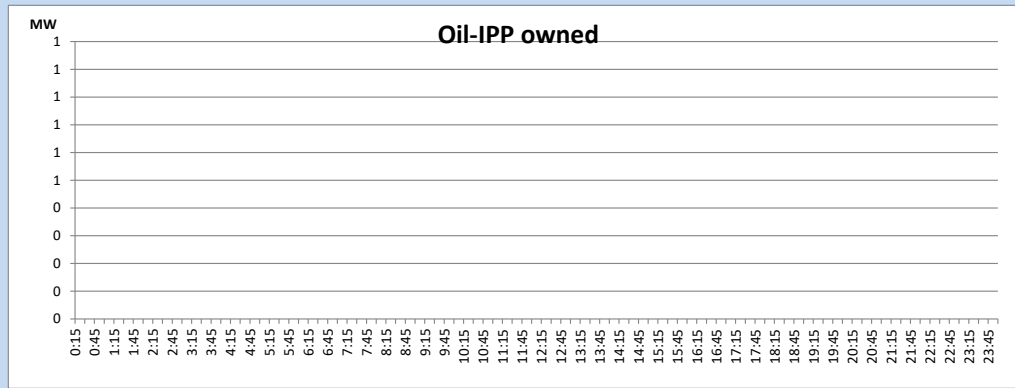
CEB Oil Plant Generation during

October 22, 2023



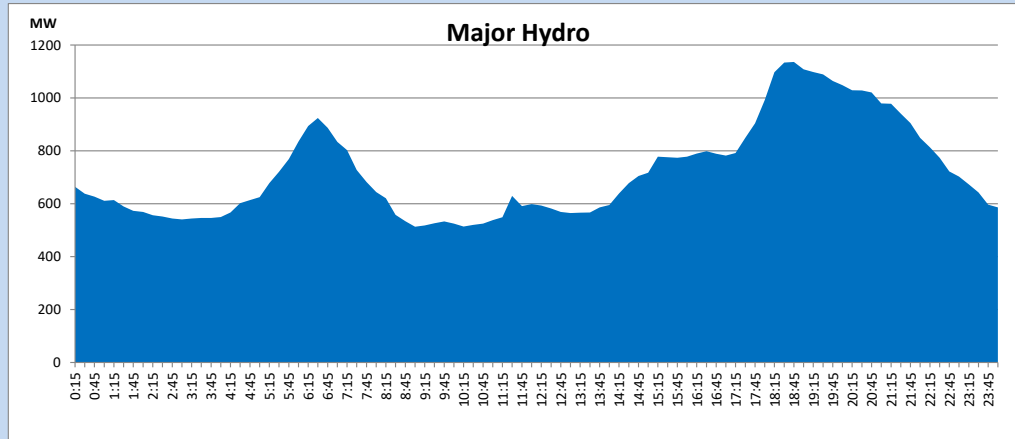
IPP Oil Plant Generation during

October 22, 2023



Major Hydro Generation during

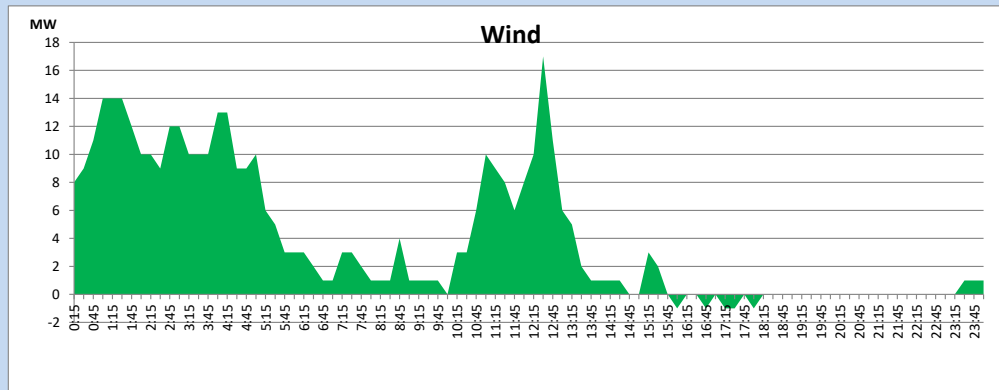
October 22, 2023



Wind Generation during

October 22, 2023

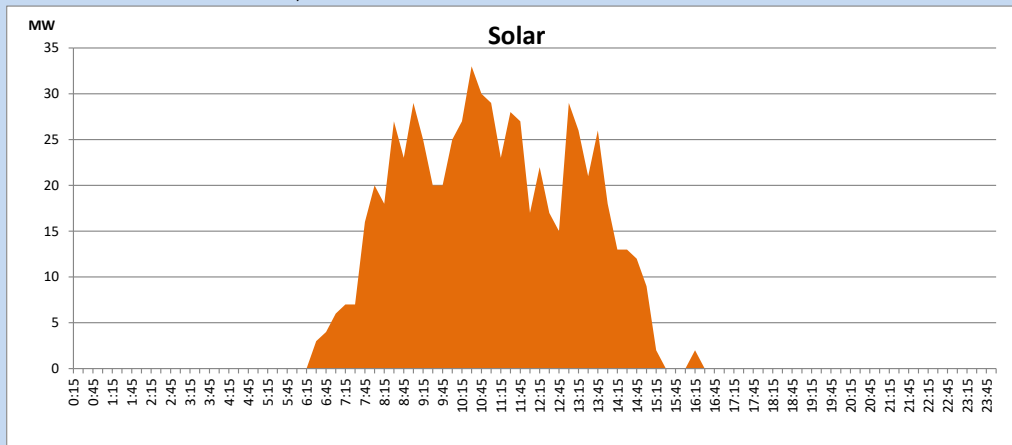
Based on Telemetered Power Stations only



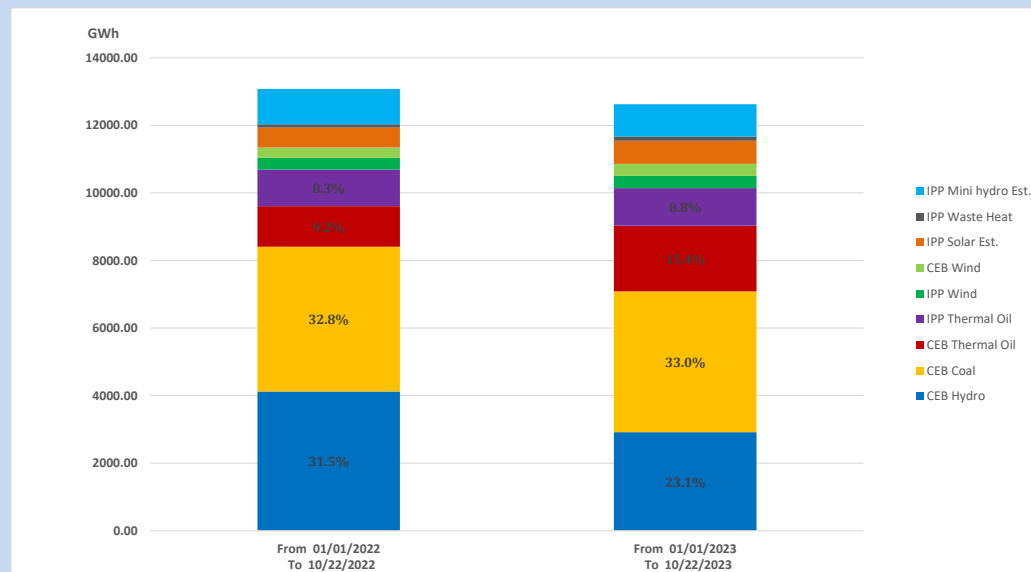
Solar Generation during

October 22, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2022 To 10/22/2022
 From 01/01/2023 To 10/22/2023

13080 GWh
 12624 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 22, 2023

- 1) System frequency dropped to 49.22Hz at 11:27hrs due to the tripping of embedded generation
- 2) Kolonnawa – Sub I (Maradana) 132kV cable which tripped on 24.04.2023, was energized from Kolonnawa end at 16:12hrs for a soak test
- 3) Canyon unit 01 tripped at 19:32hrs rejecting 25MW from the system due to a speed relay fault. Canyon unit 01 resumed generation at 19:49hrs
- 4) Norton pond spilled intermittently and spilling stopped at 3:45hrs (23.10.2023)
- 5) Kukule spilling started at 5:40hrs (23.10.2023) and spilling continues to the present hour