

Generation and Reservoirs Statistics

October 19, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

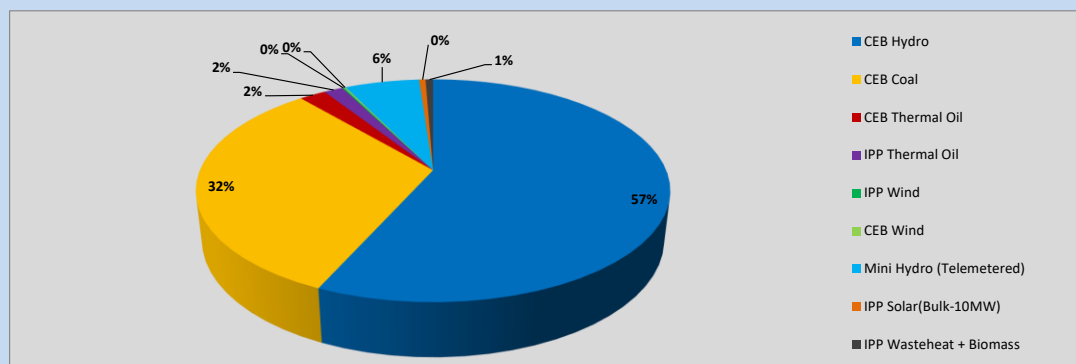


Table 01

	Generation (MWh)
CEB Hydro	21,083
CEB Coal	11,931
CEB Thermal Oil	801
IPP Thermal Oil	577
IPP Wind	54
CEB Wind	56
Mini Hydro (Telemetered)	2,262
IPP Solar (Bulk)	195
IPP Waste heat + Biomass	228
Total Generation (Excluding estimated figures)	37,187
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2598
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
Total Generation (Including estimated figures)	42,019

* 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

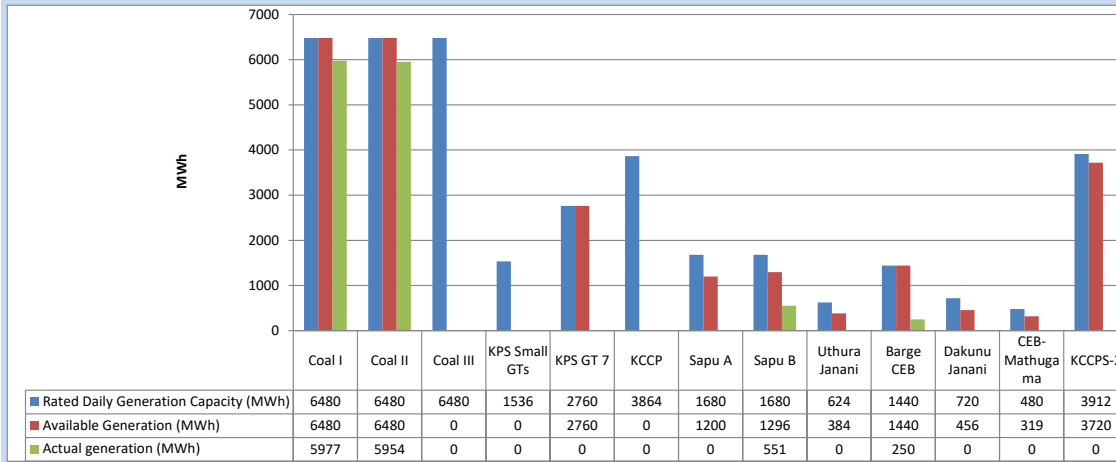
Category	Dispatch (GWh)	
CEB Hydro	300	43.64%
CEB Coal	227	33.04%
CEB Thermal Oil	56	8.19%
IPP Thermal	17	2.50%
SPP Wind	19	2.83%
CEB Wind	22	3.19%
Mini Hydro (Telemetered)	36	5.21%
IPP Solar(Bulk-10MW)	5	0.70%
IPP Waste heat + BMP	5	0.72%
Total	688	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,866	25.47%
CEB Coal	4,147	36.85%
CEB Thermal Oil	1,950	17.33%
IPP Thermal	1,112	9.88%
SPP Wind	345	3.06%
CEB Wind	354	3.14%
Mini Hydro (Telemetered)	287	2.55%
IPP Solar(Bulk-10MW)	87	0.78%
IPP Waste heat	104	0.93%
Total	11,252	

3. CEB owned Thermal Plant Dispatch

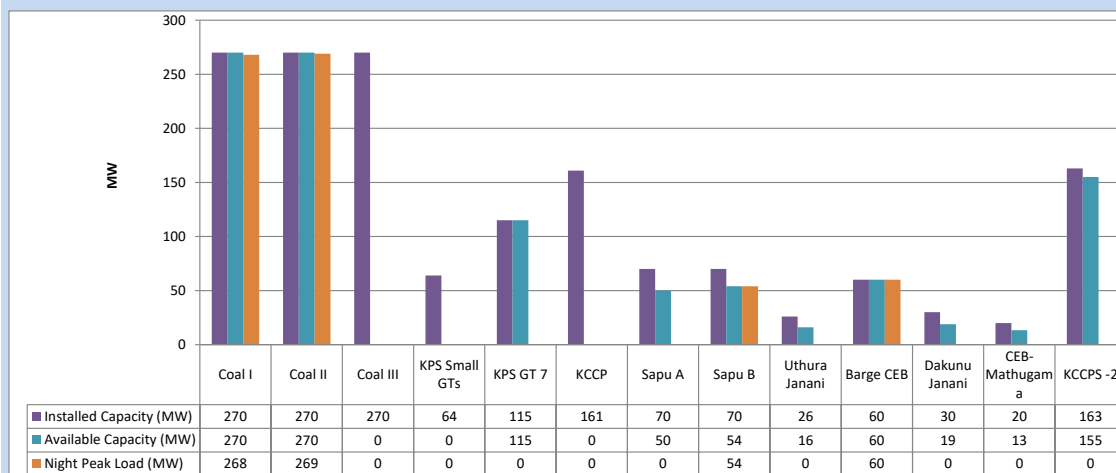
October 19, 2023



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

October 20, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

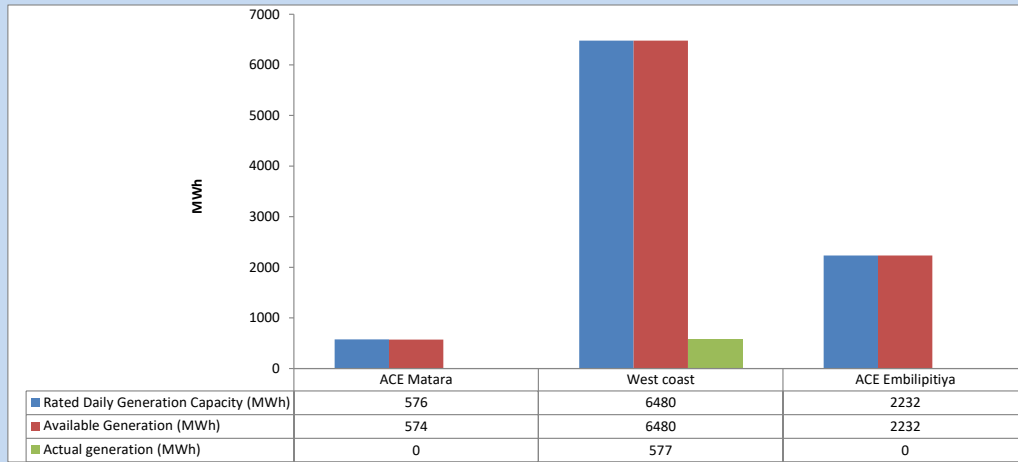


Plant availability is recorded at 6.00 am on

October 20, 2023

5. IPP owned Thermal Plant Dispatch

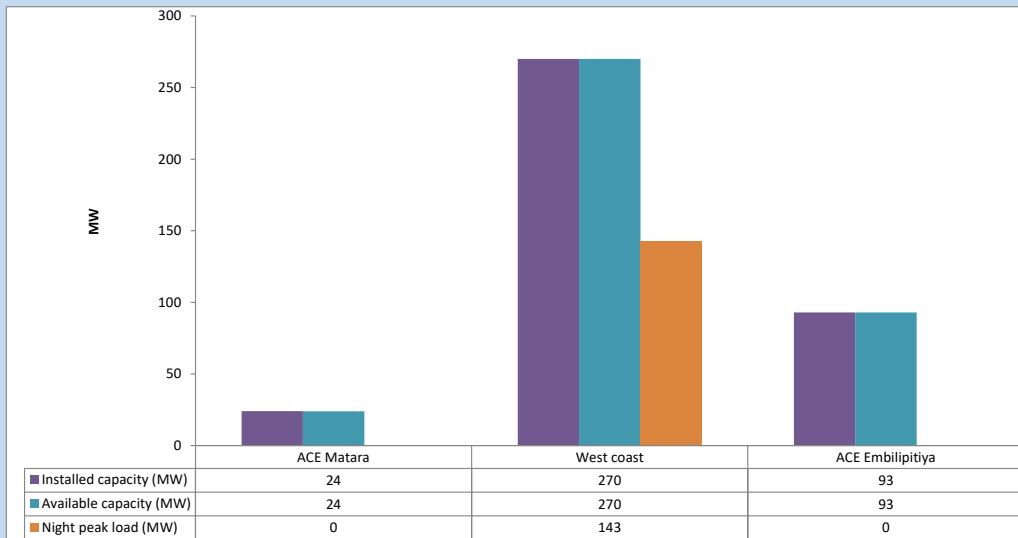
October 19, 2023



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

October 20, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

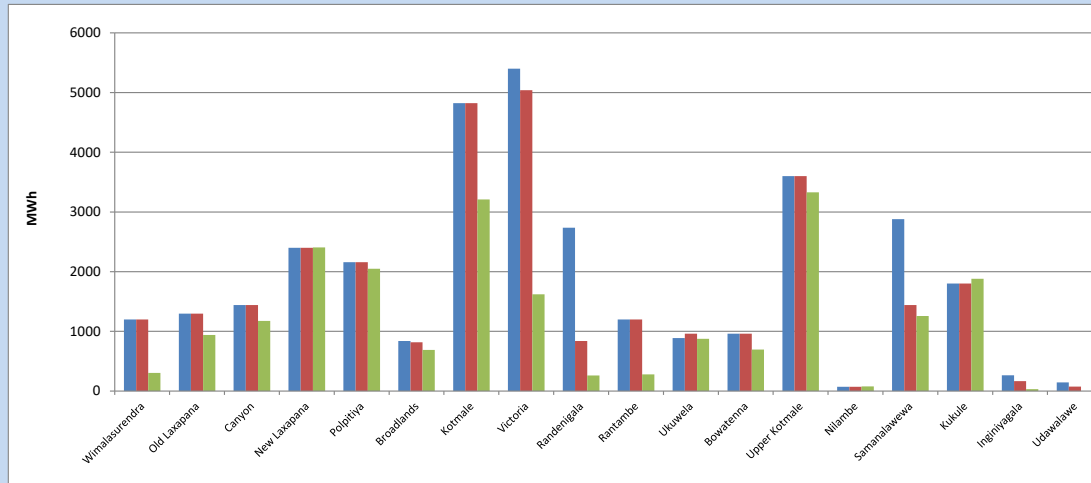


Plant availability is recorded at 6.00 am on

October 20, 2023

7. Major Hydro Plant Dispatch

October 19, 2023

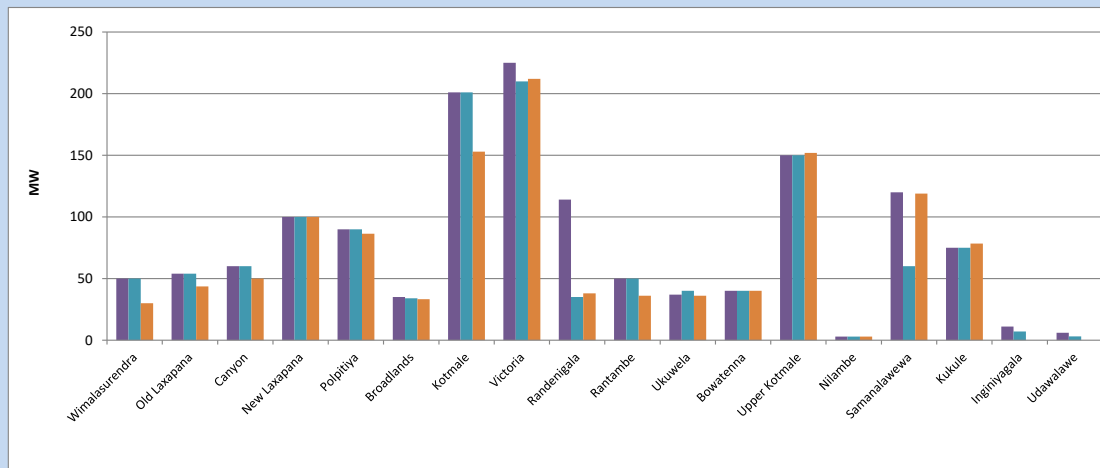


Available Generation is estimated based on plant availability at 6.00am on October 20, 2023
Broadlands power plant is operating in the Commissioning Stage

October 20, 2023

8. Major Hydro Plant Loading at Night Peak

October 19, 2023



Plant availability is recorded at 6.00 am on October 20, 2023
Broadlands power plant is operating in the Commissioning Stage

October 20, 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	30	304
Old Laxapana	54	54	44	939
Canyon	60	60	50	1,176
New Laxapana	100	100	100	2,406
Polpitiya	90	90	86	2,050
Broadlands	35	34	33	688
Kotmale	201	201	153	3,210
Victoria	225	210	212	1,620
Randenigala	114	35	38	262
Rantambe	50	50	36	279
Ukuwela	37	40	36	874
Bowatenna	40	40	40	696
Upper Kotmale	150	150	152	3,330
Nilambe	3	3	3	79
Samanalawewa	120	60	119	1,256
Kukule	75	75	78	1,882
Inginiyagala	11	7	0	32
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	268	5,977
Puttalam Coal II	270	270	269	5,954
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	0	0
Sapugaskanda A	70	50	0	0
Sapugaskanda B	70	54	54	551
Uthura Janani	26	16	0	0
Barge CEB	60	60	60	250
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	143	577
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,671	2,081	37,187

Plant availability is the availability recorded at 6 am on

October 20, 2023

10. Contribution to the Night Peak in MW

October 19, 2023

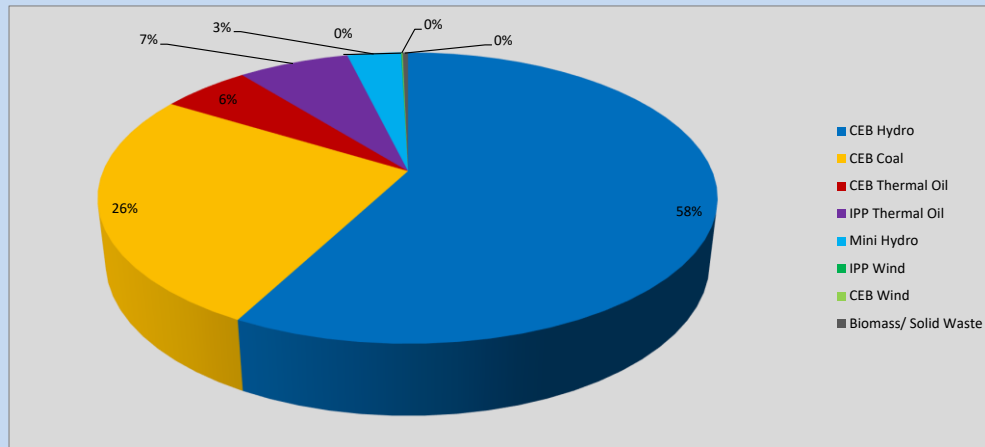


Table 06

CEB Hydro	1191	MW
CEB Coal	537	MW
CEB Thermal Oil	114	MW
IPP Thermal Oil	143	MW
Mini Hydro (Telemetered)	69	MW
IPP Wind	0.9	MW
CEB Wind	-1.1	MW
Biomass/ Solid Waste	7	MW

Recorded Peak Demand Data

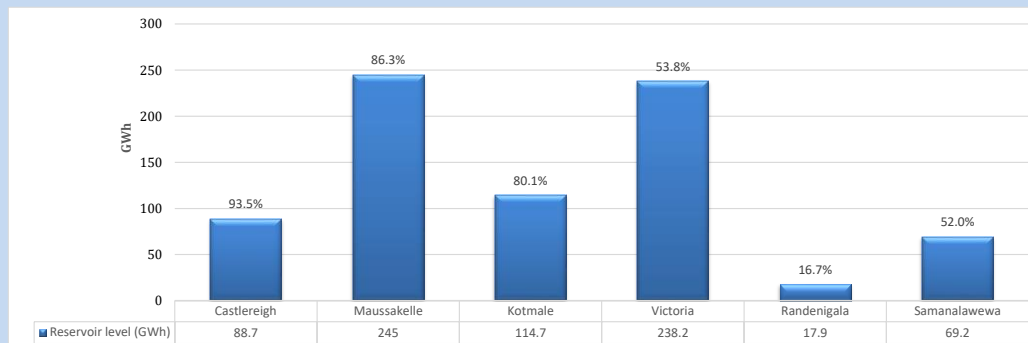
Table 07

Night Peak*	2,061	MW
Day Peak Maximum Demand	1,764	MW
Day Peak Minimum Demand	1,595	MW
Off Peak Minimum Demand	1,082	MW

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

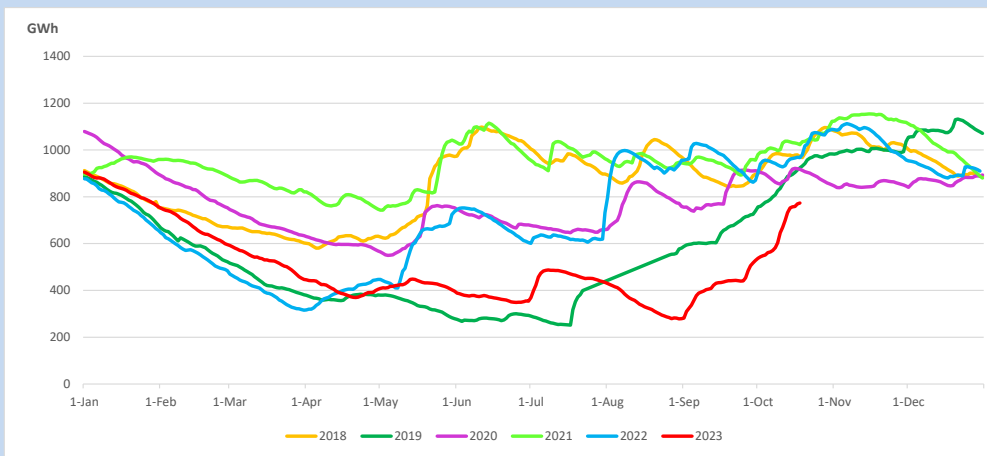
Reservoir Levels -

as at 06.00 Hr on October 20, 2023

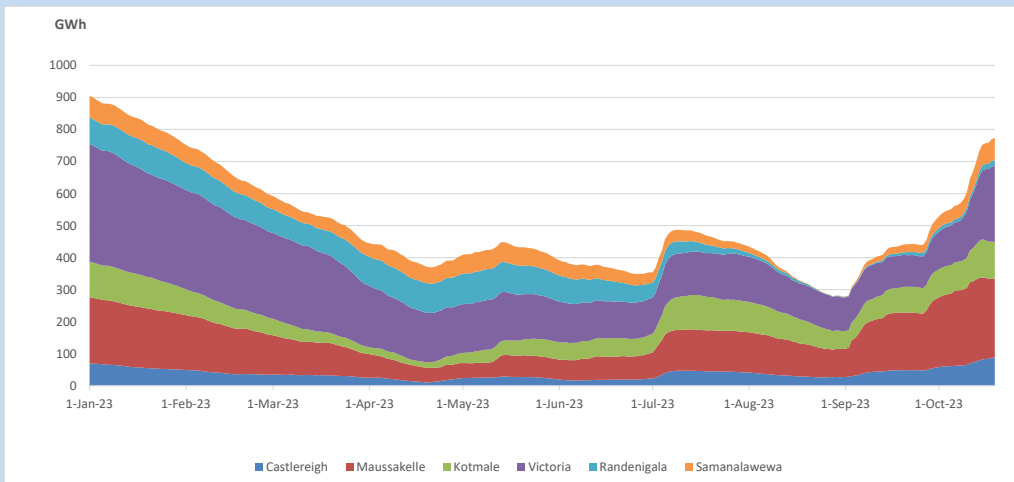


Total Reservoir Level 773.7 GWh
 % of Total capacity 64.2%

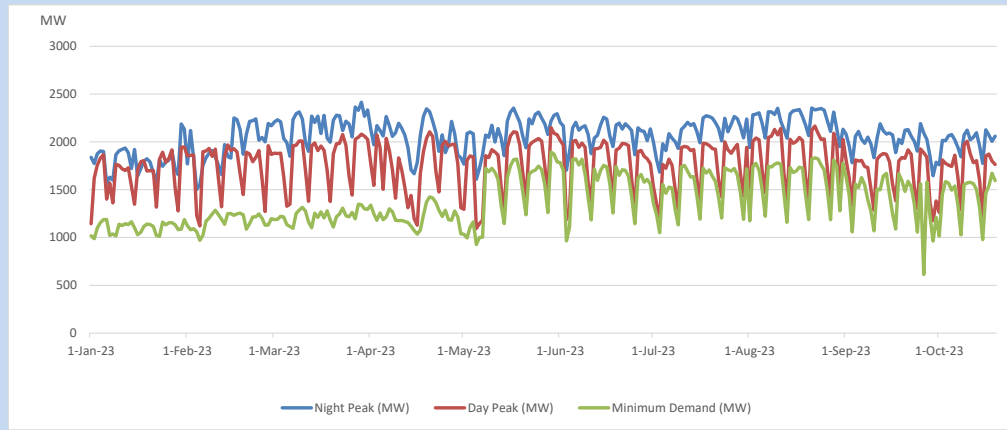
11. Comparison of Total Reservoir Storage Levels with Past Years



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



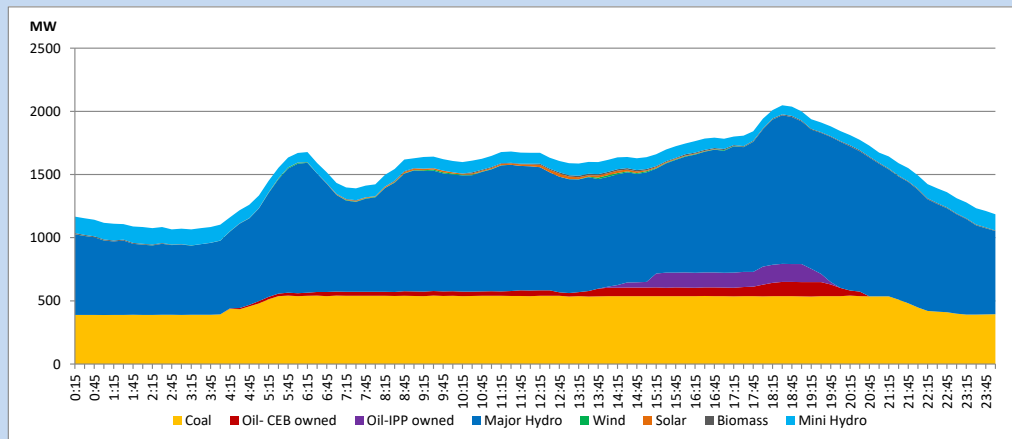
13. Variation of Demand during the current year



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

14. Daily Load Curve

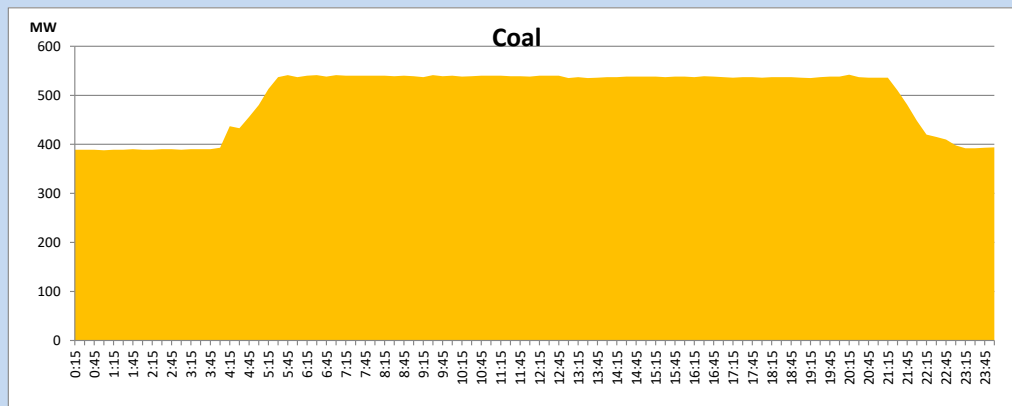
October 19, 2023



Solar and wind data is based on Telemetered Power Stations only

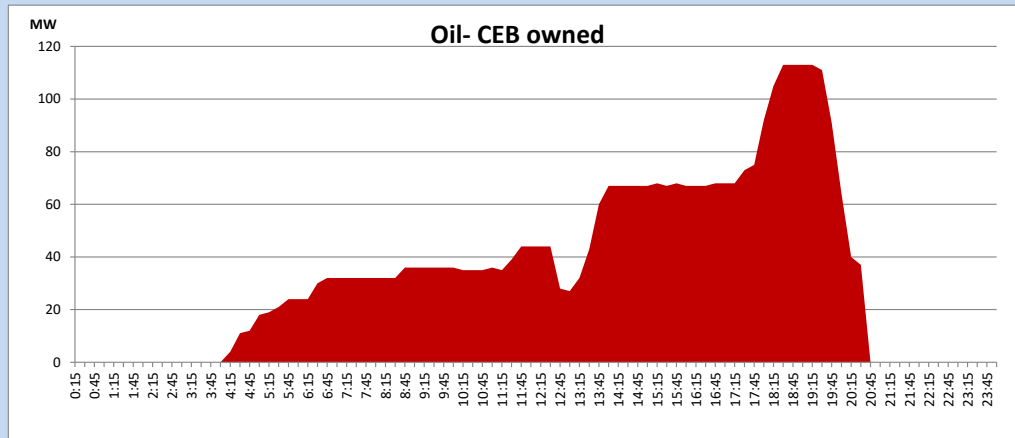
Coal Generation during

October 19, 2023



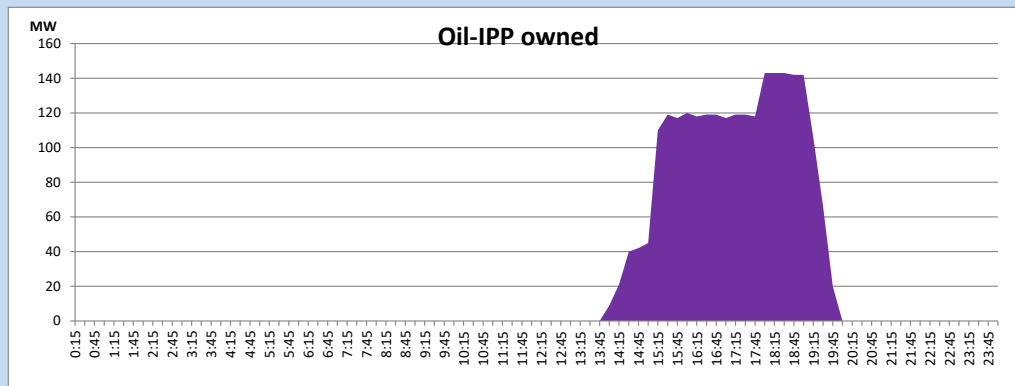
CEB Oil Plant Generation during

October 19, 2023



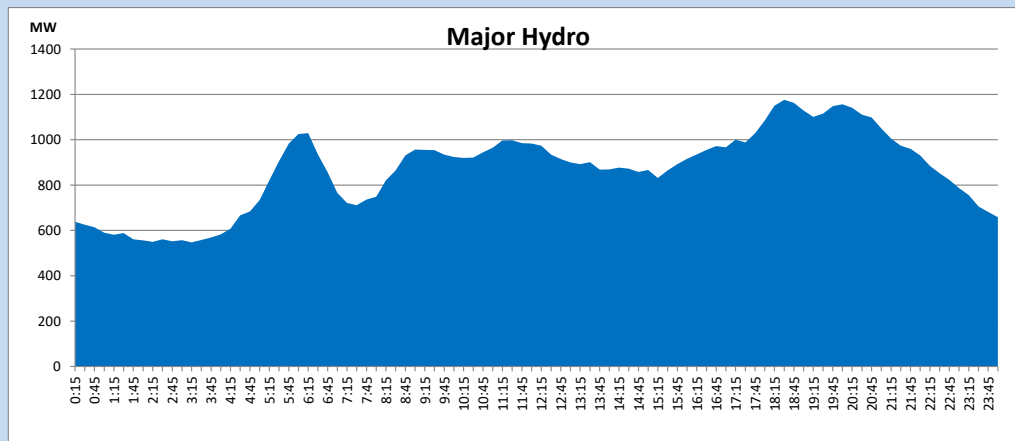
IPP Oil Plant Generation during

October 19, 2023



Major Hydro Generation during

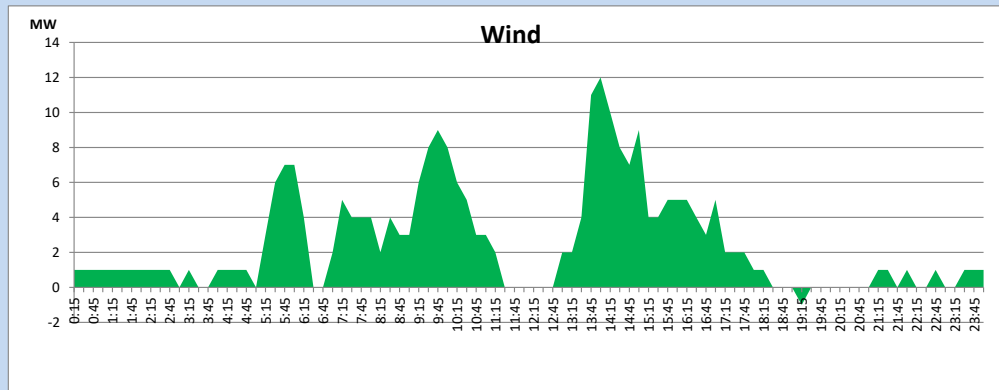
October 19, 2023



Wind Generation during

October 19, 2023

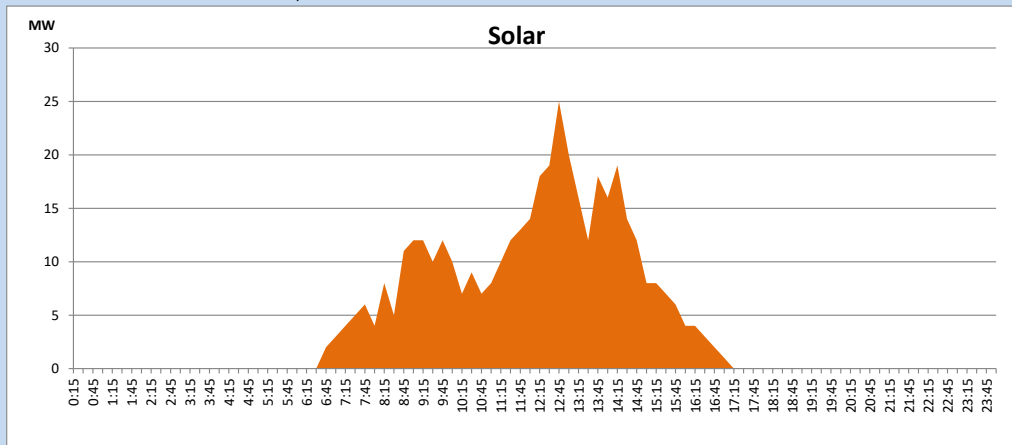
Based on Telemetered Power Stations only



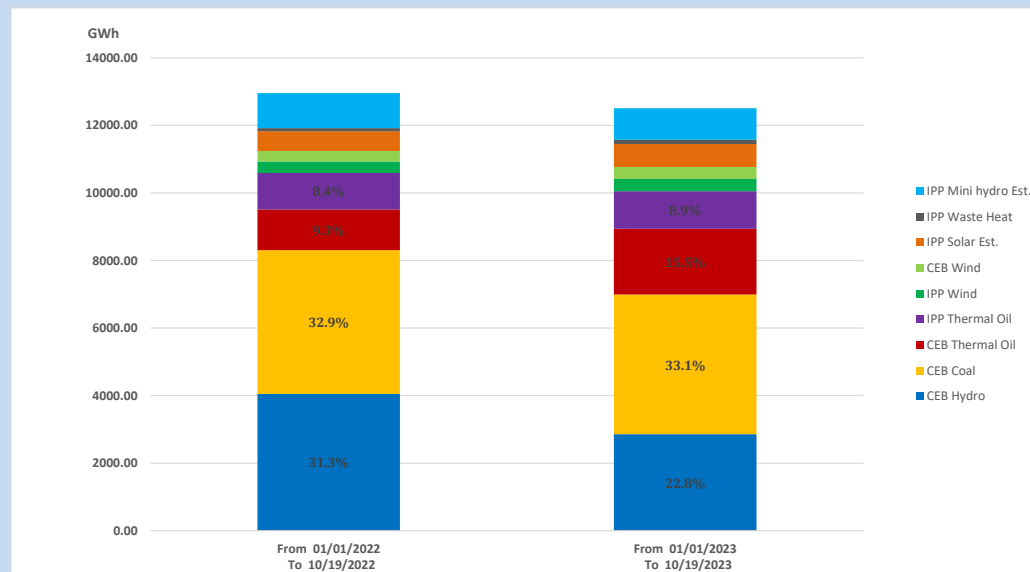
Solar Generation during

October 19, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2022 To 10/19/2022
 From 01/01/2023 To 10/19/2023

12955 GWh
 12508 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 19, 2023

- 1) Maliboda 132/33kV T/F 02 which tripped on 19.10.2023, was normalized at 17:40hrs
- 2) Old Laxapana unit 02 which tripped on 17.10.2023, resumed generation at 20:02hrs
- 3) Kukule pond spilling stopped at 05:02hrs (20.10.2023)
- 4) Canyon pond spilling started at 08:27hrs and spilling continues to the present hour
- 5) Laxapana pond spilled intermittently and spilling continues to present hour