

Generation and Reservoirs Statistics

October 20, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

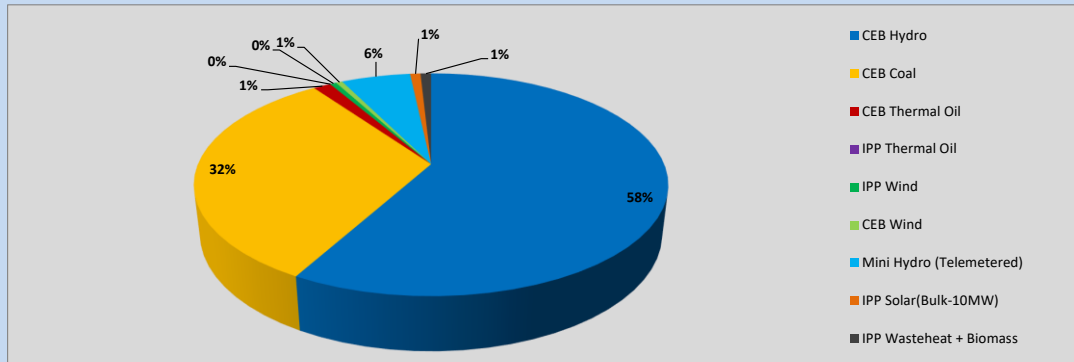


Table 01

	Generation (MWh)
CEB Hydro	21,153
CEB Coal	11,695
CEB Thermal Oil	522
IPP Thermal Oil	-
IPP Wind	191
CEB Wind	191
Mini Hydro (Telemetered)	2,054
IPP Solar (Bulk)	309
IPP Waste heat + Biomass	314
Total Generation (Excluding estimated figures)	36,429
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2806
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
Total Generation (Including estimated figures)	41,469

* 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

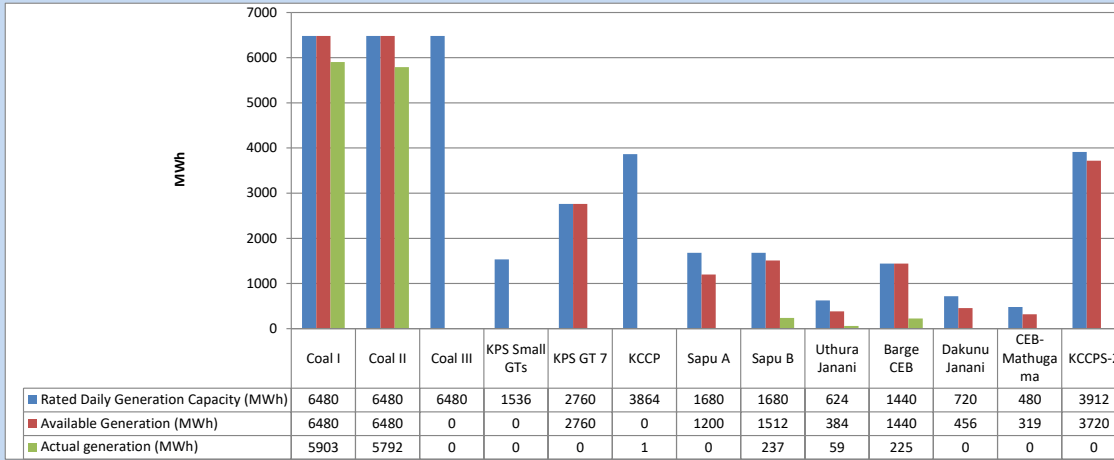
Category	Dispatch (GWh)	
CEB Hydro	322	44.36%
CEB Coal	239	33.00%
CEB Thermal Oil	57	7.85%
IPP Thermal	17	2.37%
SPP Wind	20	2.71%
CEB Wind	22	3.06%
Mini Hydro (Telemetered)	38	5.23%
IPP Solar(Bulk-10MW)	5	0.70%
IPP Waste heat + BMP	5	0.72%
Total	725	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,887	25.58%
CEB Coal	4,158	36.84%
CEB Thermal Oil	1,951	17.28%
IPP Thermal	1,112	9.85%
SPP Wind	345	3.06%
CEB Wind	354	3.13%
Mini Hydro (Telemetered)	290	2.56%
IPP Solar(Bulk-10MW)	88	0.78%
IPP Waste heat	105	0.93%
Total	11,289	

3. CEB owned Thermal Plant Dispatch

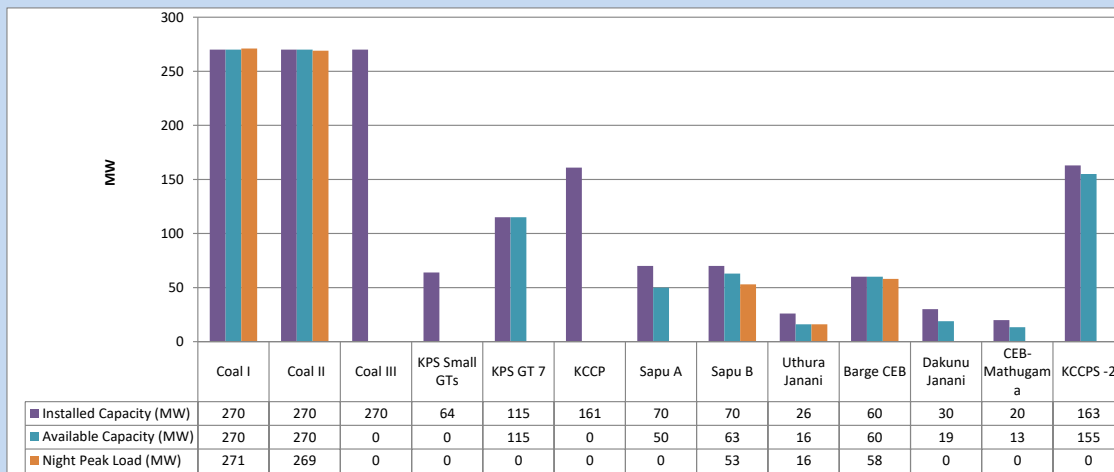
October 20, 2023



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

October 21, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

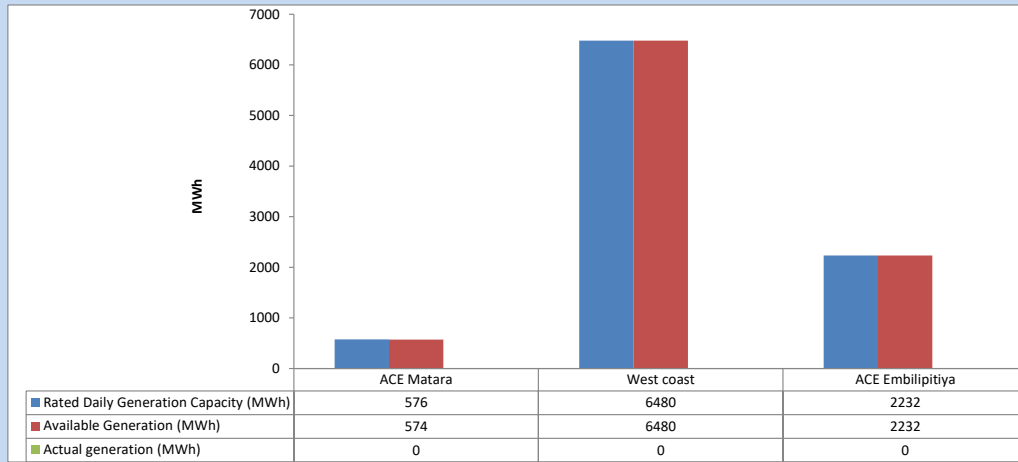


Plant availability is recorded at 6.00 am on

October 21, 2023

5. IPP owned Thermal Plant Dispatch

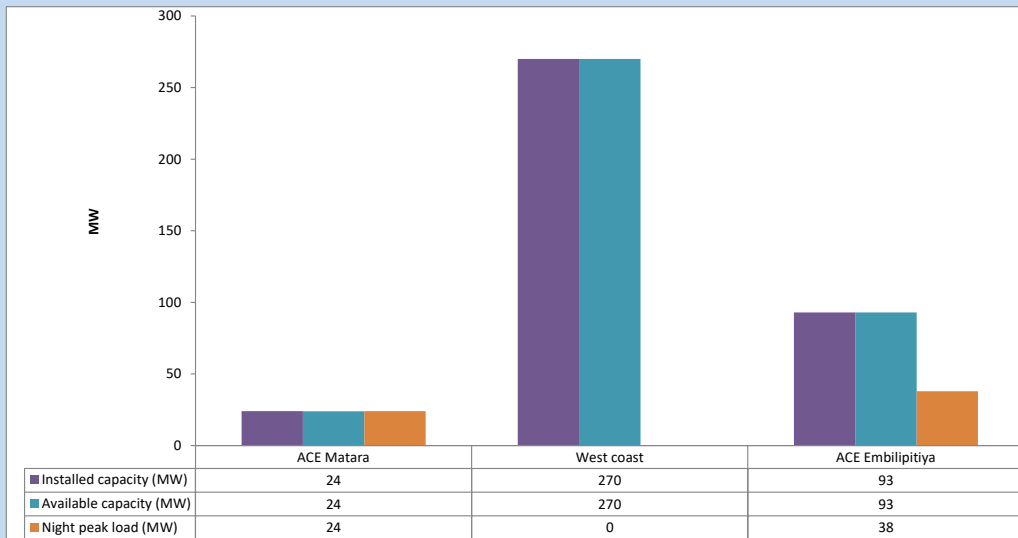
October 20, 2023



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

October 21, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

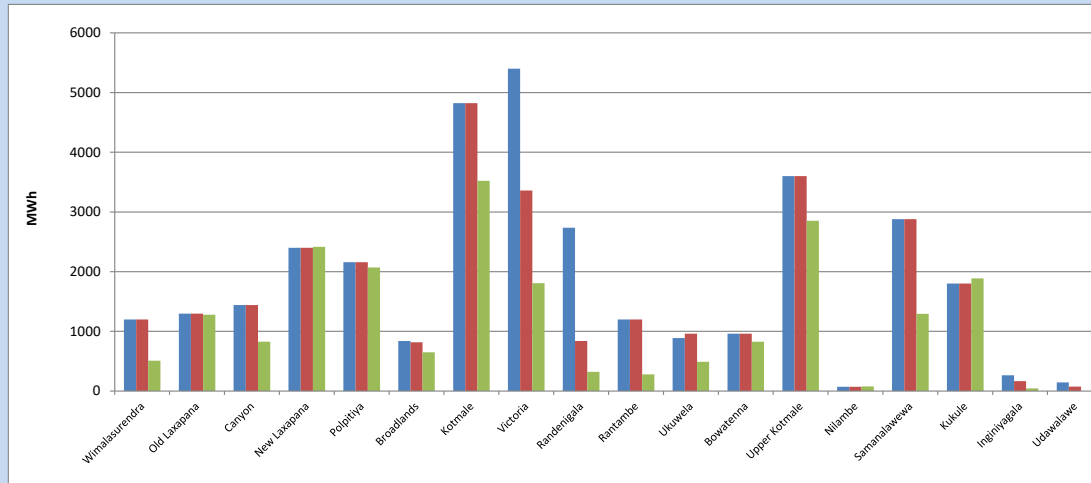


Plant availability is recorded at 6.00 am on

October 21, 2023

7. Major Hydro Plant Dispatch

October 20, 2023

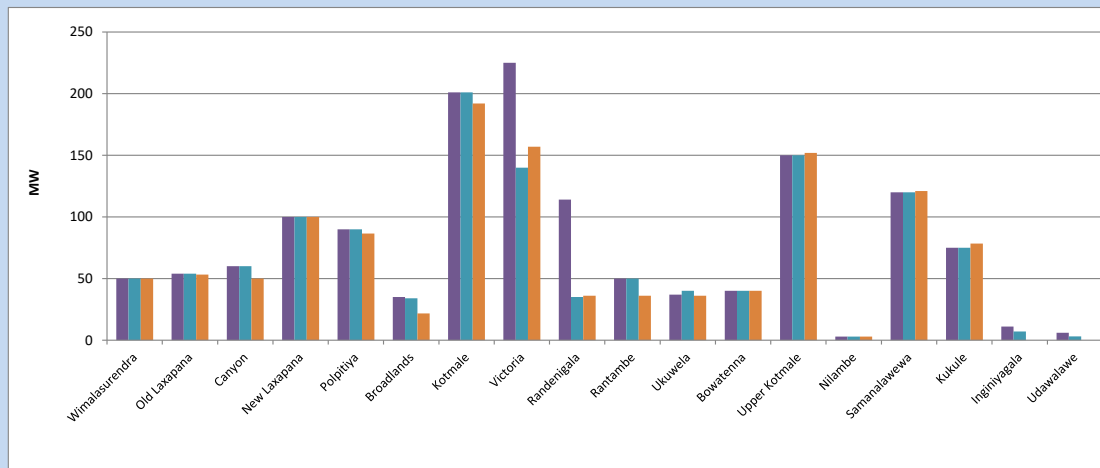


Available Generation is estimated based on plant availability at 6.00am on October 21, 2023
Broadlands power plant is operating in the Commissioning Stage

October 21, 2023

8. Major Hydro Plant Loading at Night Peak

October 20, 2023



Plant availability is recorded at 6.00 am on October 21, 2023
Broadlands power plant is operating in the Commissioning Stage

October 21, 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	510
Old Laxapana	54	54	53	1,278
Canyon	60	60	50	828
New Laxapana	100	100	100	2,416
Polpitiya	90	90	87	2,070
Broadlands	35	34	22	649
Kotmale	201	201	192	3,520
Victoria	225	140	157	1,806
Randenigala	114	35	36	322
Rantambe	50	50	36	280
Ukuwela	37	40	36	491
Bowatenna	40	40	40	828
Upper Kotmale	150	150	152	2,852
Nilambe	3	3	3	77
Samanalawewa	120	120	121	1,295
Kukule	75	75	78	1,886
Inginiyagala	11	7	0	45
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	5,903
Puttalam Coal II	270	270	269	5,792
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	1
Sapugaskanda A	70	50	0	0
Sapugaskanda B	70	63	53	237
Uthura Janani	26	16	16	59
Barge CEB	60	60	58	225
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	24	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	38	0
Total	3,483	2,670	2,017	36,429

Plant availability is the availability recorded at 6 am on

October 21, 2023

10. Contribution to the Night Peak in MW

October 20, 2023

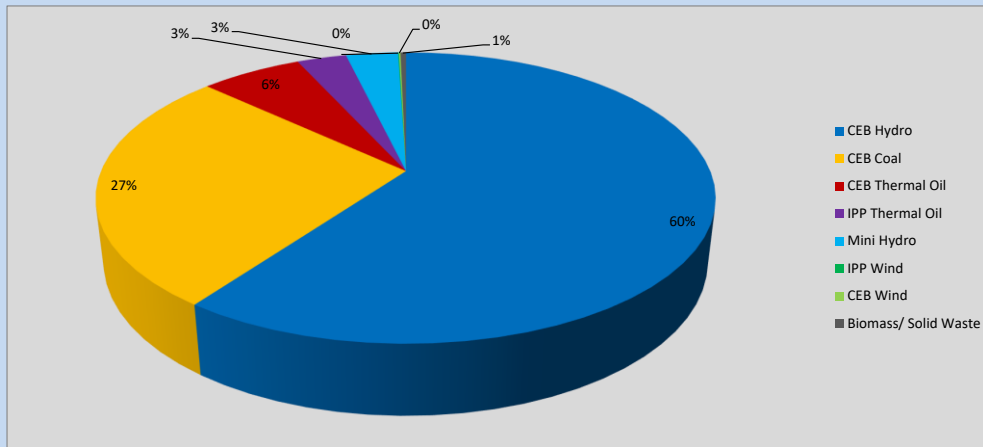


Table 06

CEB Hydro	1208	MW
CEB Coal	540	MW
CEB Thermal Oil	127	MW
IPP Thermal Oil	62	MW
Mini Hydro (Telemetered)	65	MW
IPP Wind	1.1	MW
CEB Wind	1.9	MW
Biomass/ Solid Waste	7	MW

Recorded Peak Demand Data

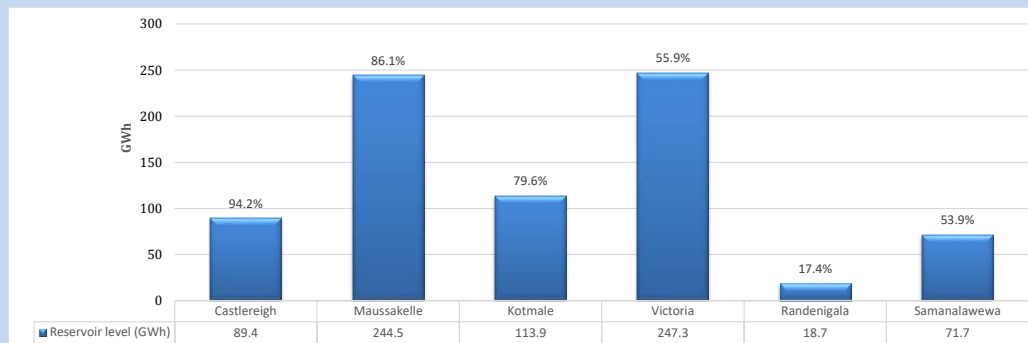
Table 07

Night Peak*	2,012	MW
Day Peak Maximum Demand	1,822	MW
Day Peak Minimum Demand	1,469	MW
Off Peak Minimum Demand	1,088	MW

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

Reservoir Levels -

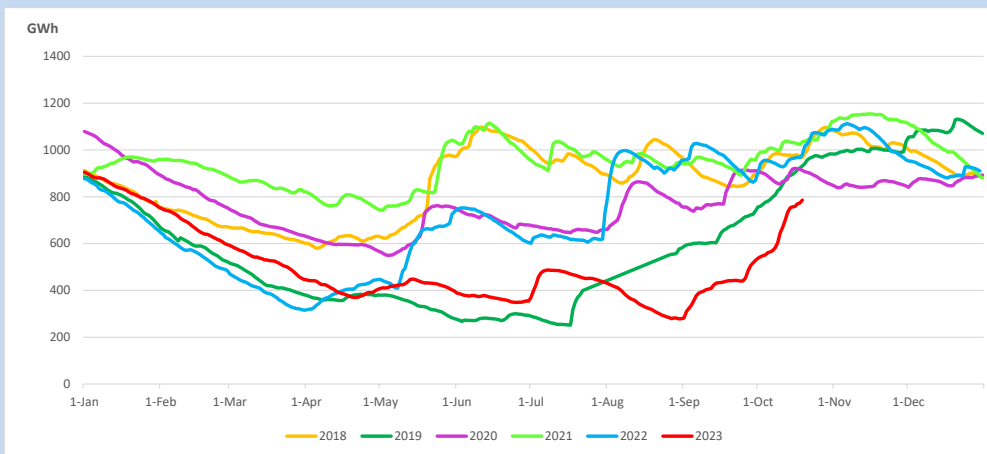
as at 06.00 Hr on October 21, 2023



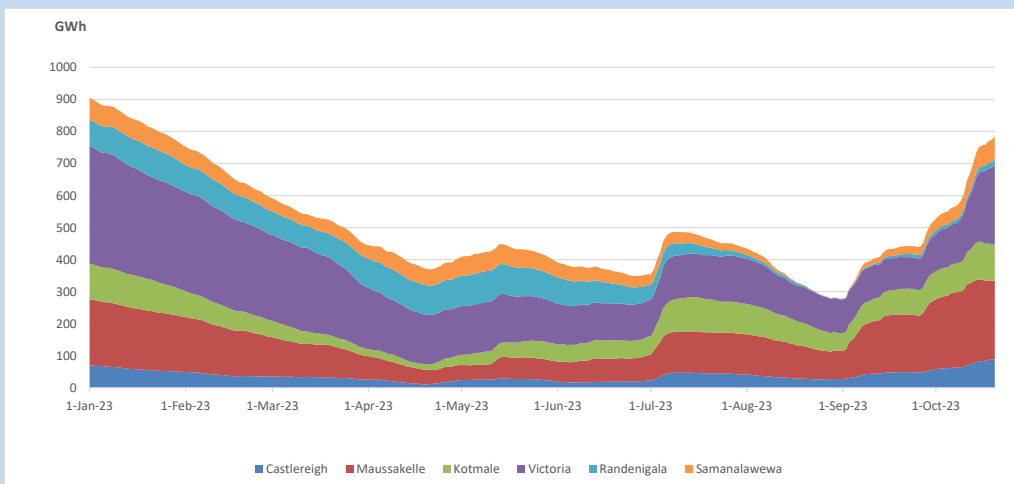
Total Reservoir Level
% of Total capacity

785.5 GWh
65.2%

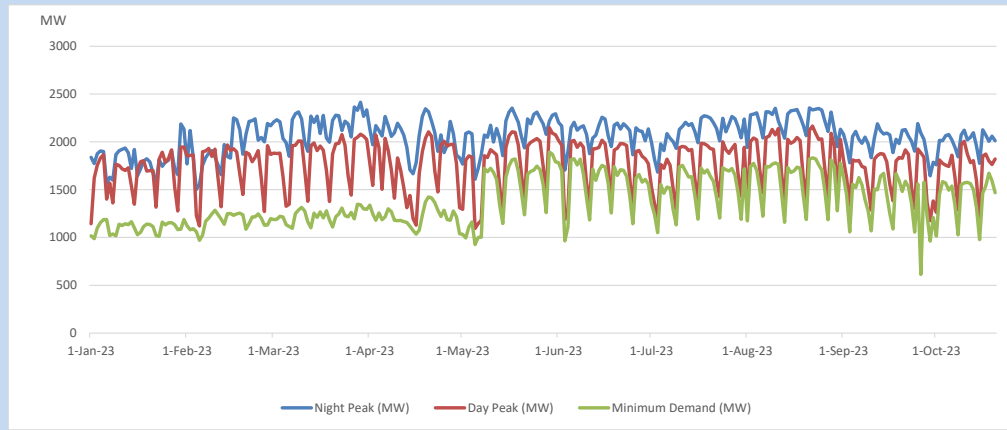
11. Comparison of Total Reservoir Storage Levels with Past Years



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



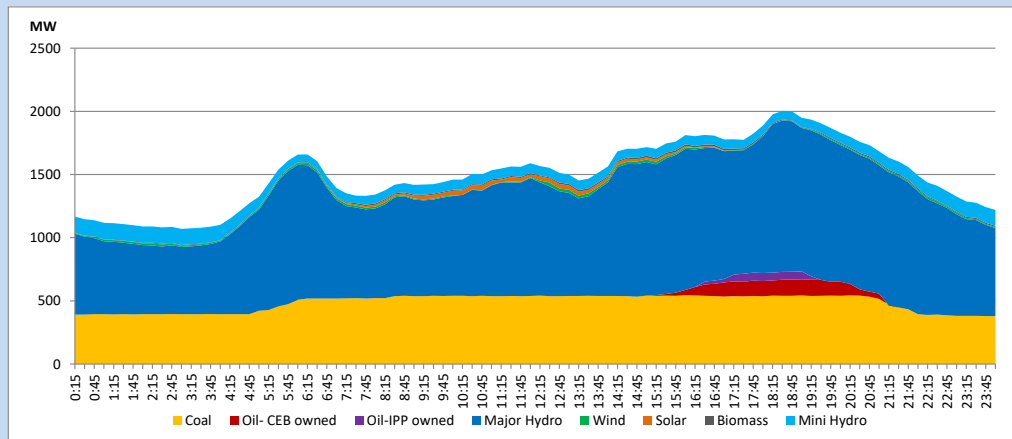
13. Variation of Demand during the current year



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

14. Daily Load Curve

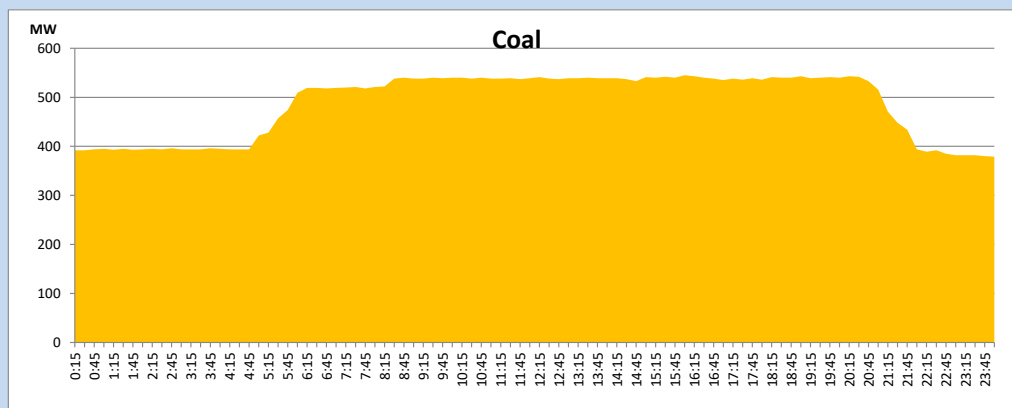
October 20, 2023



Solar and wind data is based on Telemetered Power Stations only

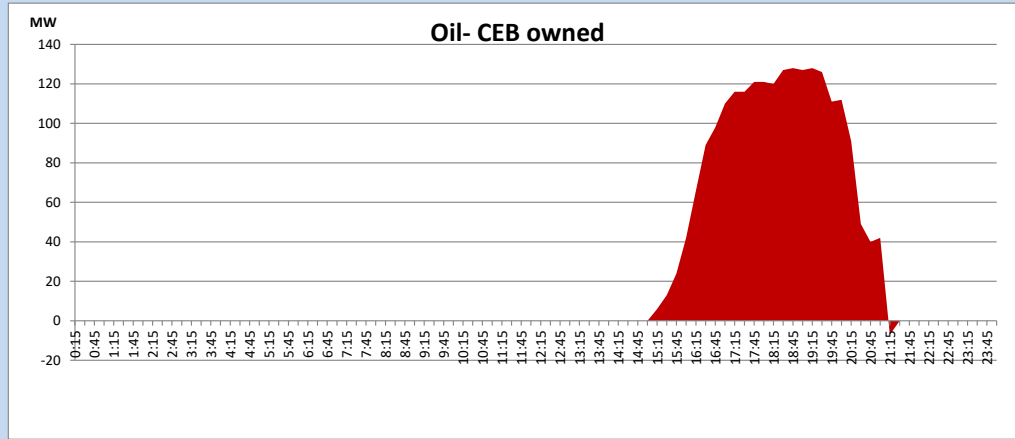
Coal Generation during

October 20, 2023



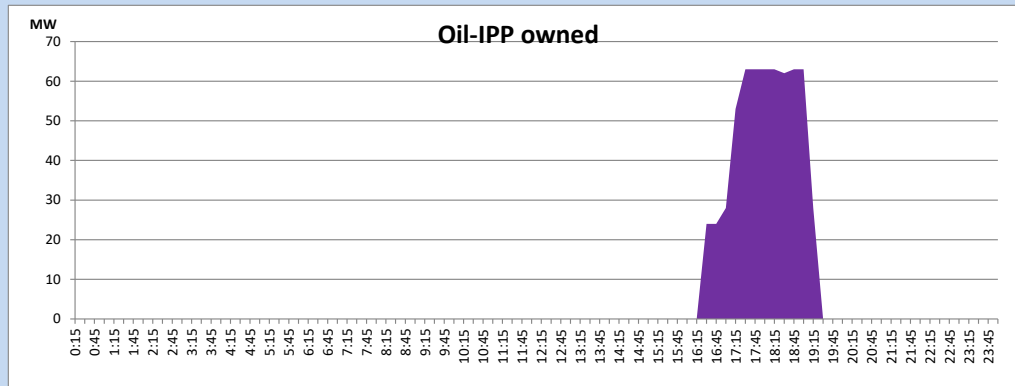
CEB Oil Plant Generation during

October 20, 2023



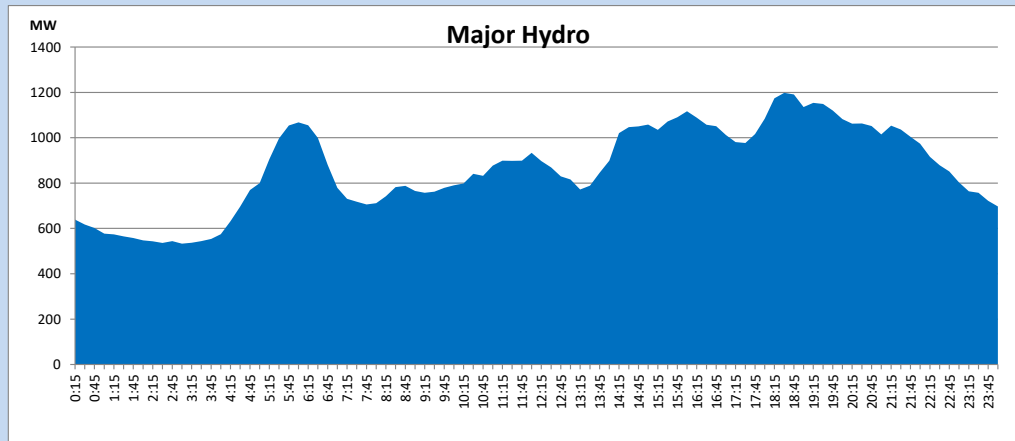
IPP Oil Plant Generation during

October 20, 2023



Major Hydro Generation during

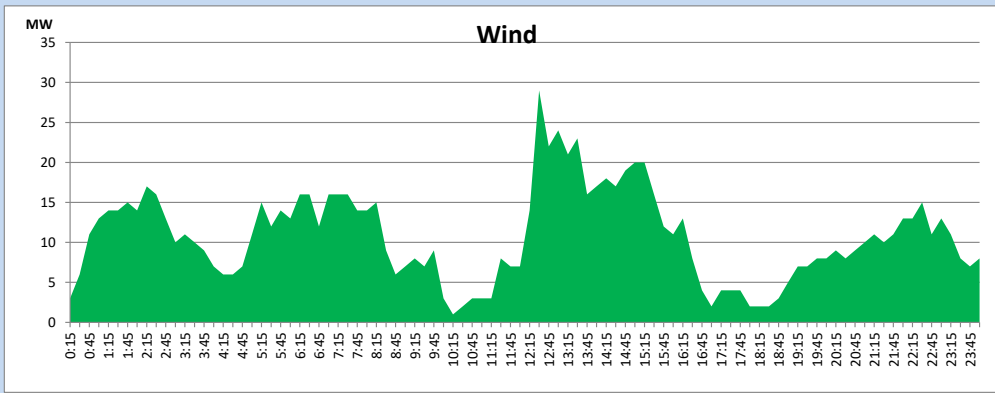
October 20, 2023



Wind Generation during

October 20, 2023

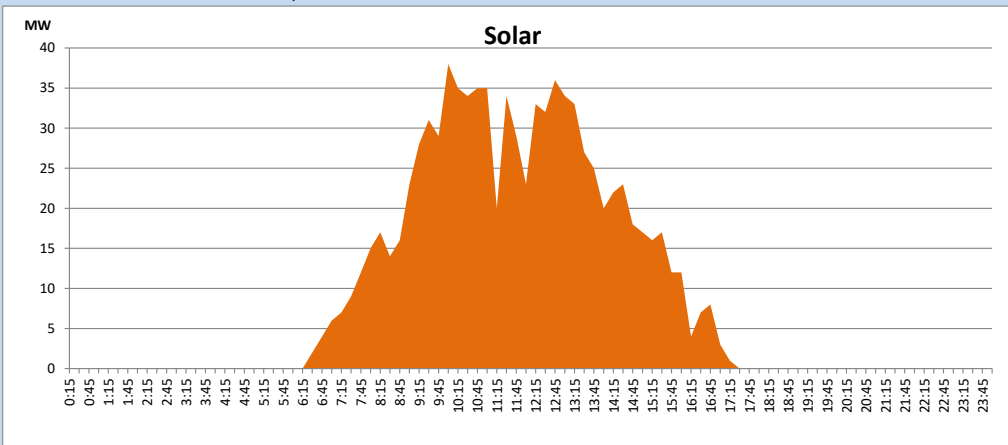
Based on Telemetered Power Stations only



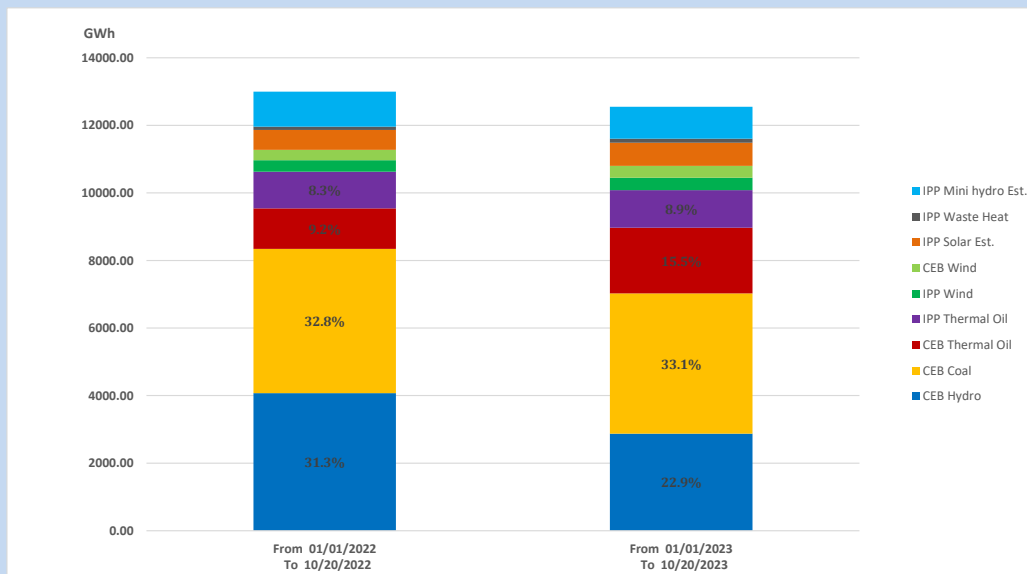
Solar Generation during

October 20, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2022 To 10/20/2022
 From 01/01/2023 To 10/20/2023

12999 GWh
 12550 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 20, 2023

- 1) Canyon pond spilling stopped at 07:18hrs and Laxapana pond spilled intermittently and stopped at 10:10hrs
- 2) Kukule pond spilling started at 17:55hrs and continues to the present hour.