

Generation and Reservoirs Statistics

October 14, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

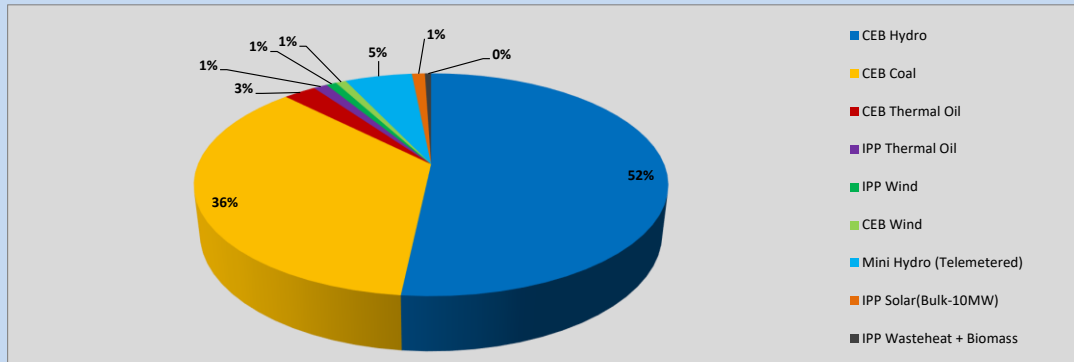


Table 01

	Generation (MWh)
CEB Hydro	17,896
CEB Coal	12,408
CEB Thermal Oil	917
IPP Thermal Oil	387
IPP Wind	285
CEB Wind	289
Mini Hydro (Telemetered)	1,898
IPP Solar (Bulk)	369
IPP Waste heat + Biomass	174
Total Generation (Excluding estimated figures)	34,623
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2962
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
Total Generation (Including estimated figures)	39,819

* 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

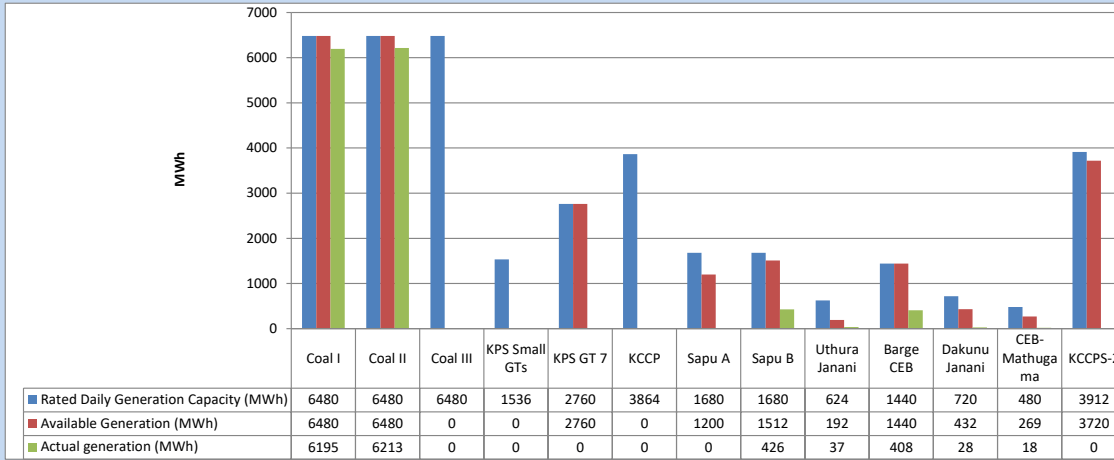
Category	Dispatch (GWh)	Percentage
CEB Hydro	200	39.42%
CEB Coal	170	33.44%
CEB Thermal Oil	53	10.35%
IPP Thermal	14	2.83%
SPP Wind	18	3.54%
CEB Wind	20	3.99%
Mini Hydro (Telemetered)	26	5.04%
IPP Solar(Bulk-10MW)	4	0.70%
IPP Waste heat + BMP	4	0.70%
Total	509	

Table 04 - Current Year

Category	Dispatch (GWh)	Percentage
CEB Hydro	2,766	24.98%
CEB Coal	4,089	36.93%
CEB Thermal Oil	1,946	17.58%
IPP Thermal	1,109	10.02%
SPP Wind	343	3.10%
CEB Wind	352	3.18%
Mini Hydro (Telemetered)	277	2.50%
IPP Solar(Bulk-10MW)	86	0.78%
IPP Waste heat	103	0.93%
Total	11,073	

3. CEB owned Thermal Plant Dispatch

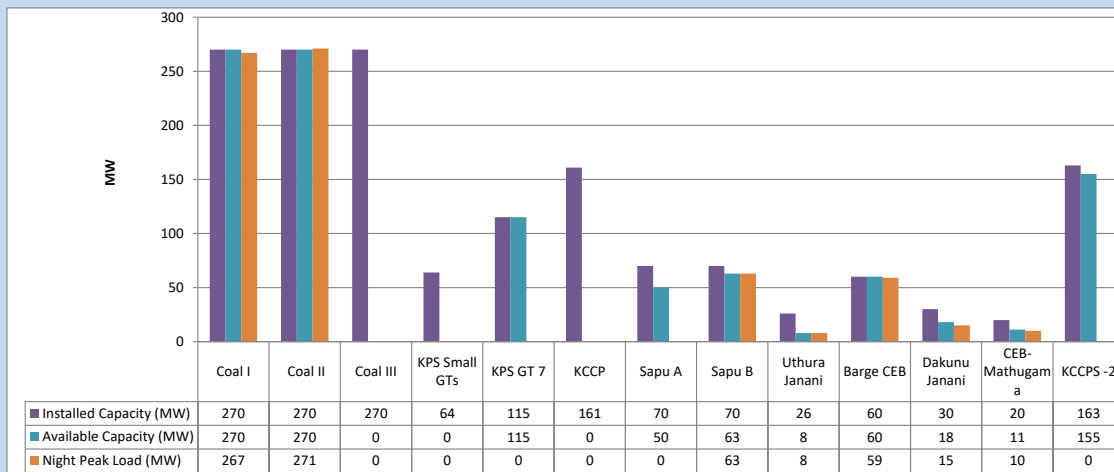
October 14, 2023



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

October 15, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

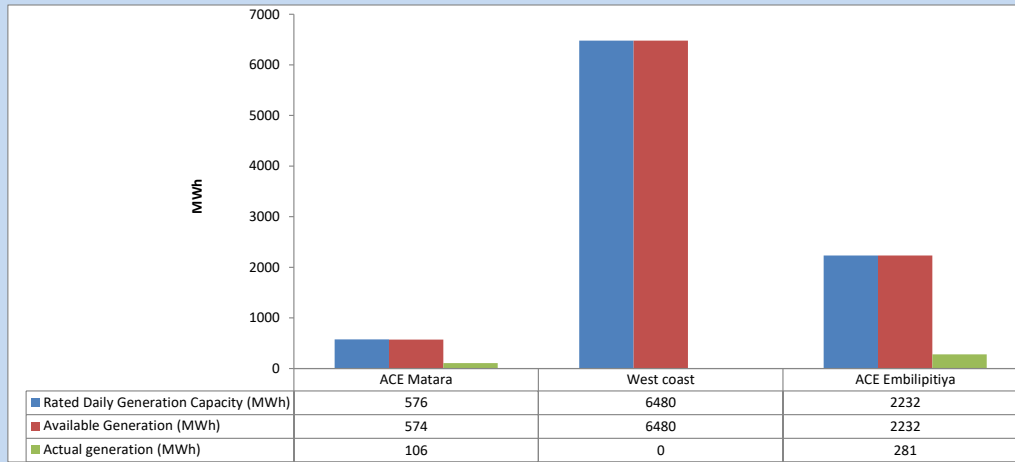


Plant availability is recorded at 6.00 am on

October 15, 2023

5. IPP owned Thermal Plant Dispatch

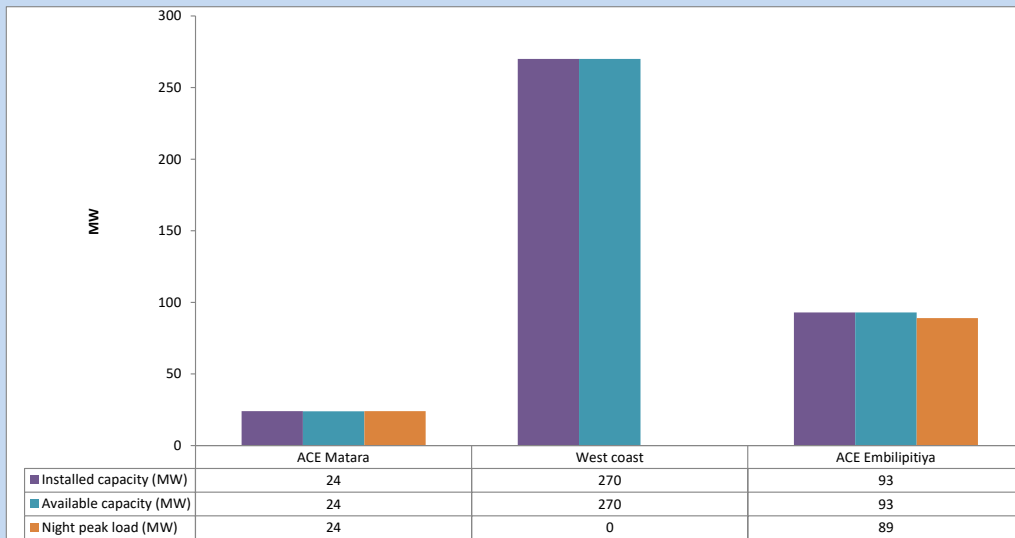
October 14, 2023



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

October 15, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

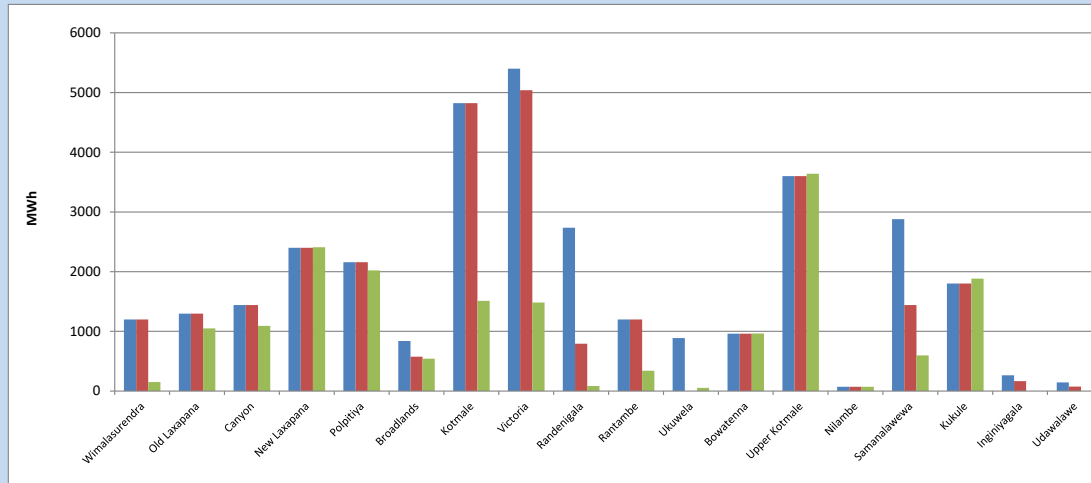


Plant availability is recorded at 6.00 am on

October 15, 2023

7. Major Hydro Plant Dispatch

October 14, 2023

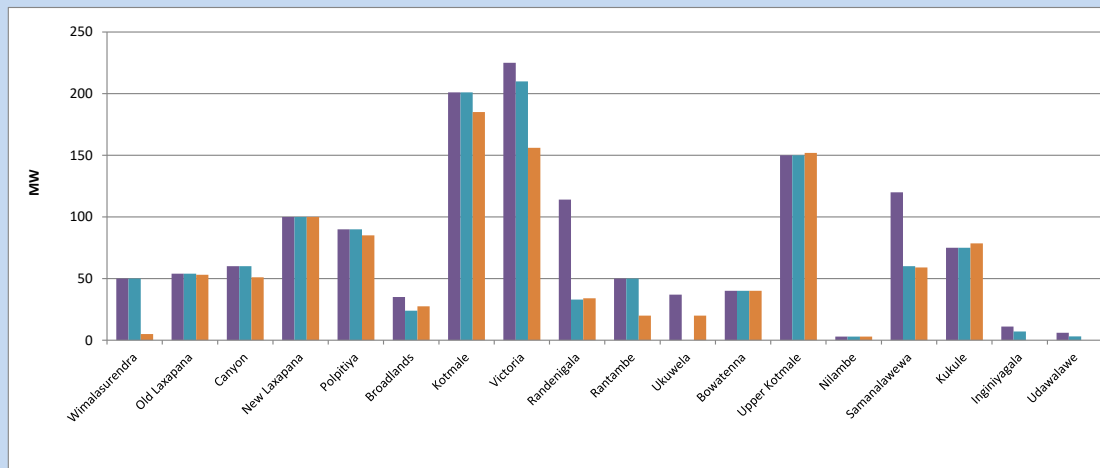


Available Generation is estimated based on plant availability at 6.00am on October 15, 2023
Broadlands power plant is operating in the Commissioning Stage

October 15, 2023

8. Major Hydro Plant Loading at Night Peak

October 14, 2023



Plant availability is recorded at 6.00 am on October 15, 2023
Broadlands power plant is operating in the Commissioning Stage

October 15, 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	5	152
Old Laxapana	54	54	53	1,050
Canyon	60	60	51	1,093
New Laxapana	100	100	100	2,409
Polpitiya	90	90	85	2,020
Broadlands	35	24	28	541
Kotmale	201	201	185	1,510
Victoria	225	210	156	1,484
Randenigala	114	33	34	85
Rantambe	50	50	20	342
Ukuwela	37	0	20	54
Bowatenna	40	40	40	963
Upper Kotmale	150	150	152	3,640
Nilambe	3	3	3	72
Samanalawewa	120	60	59	597
Kukule	75	75	79	1,884
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	267	6,195
Puttalam Coal II	270	270	271	6,213
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	63	63	426
Uthura Janani	26	8	8	37
Barge CEB	60	60	59	408
CEB-Hambantota	30	18	15	28
CEB-Mathugama	20	11	10	18
ACE Matara	24	24	24	106
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	89	281
Total	3,483	2,617	1,947	34,623

Plant availability is the availability recorded at 6 am on

October 15, 2023

10. Contribution to the Night Peak in MW

October 14, 2023

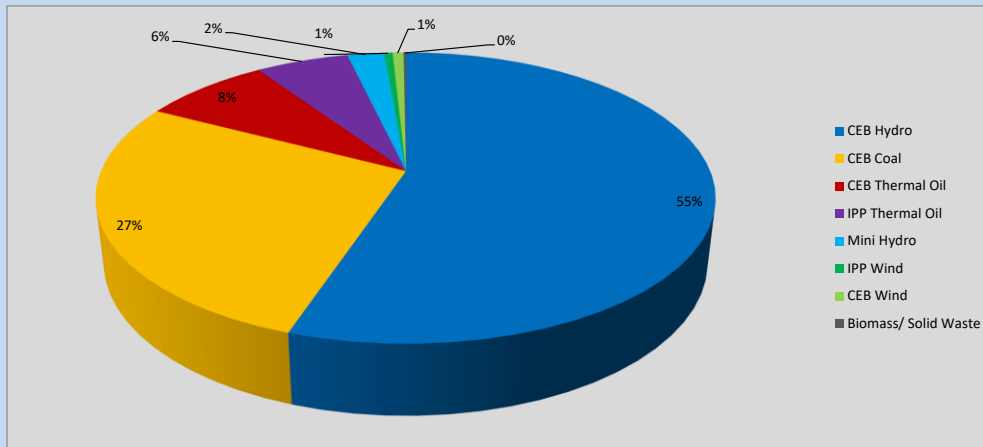


Table 06

CEB Hydro	1079	MW
CEB Coal	538	MW
CEB Thermal Oil	155	MW
IPP Thermal Oil	113	MW
Mini Hydro (Telemetered)	45	MW
IPP Wind	10.1	MW
CEB Wind	13.4	MW
Biomass/ Solid Waste	3	MW

Recorded Peak Demand Data

Table 07

Night Peak*	1,957	MW
Day Peak Maximum Demand	1,597	MW
Day Peak Minimum Demand	1,315	MW
Off Peak Minimum Demand	1,133	MW

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

Reservoir Levels -

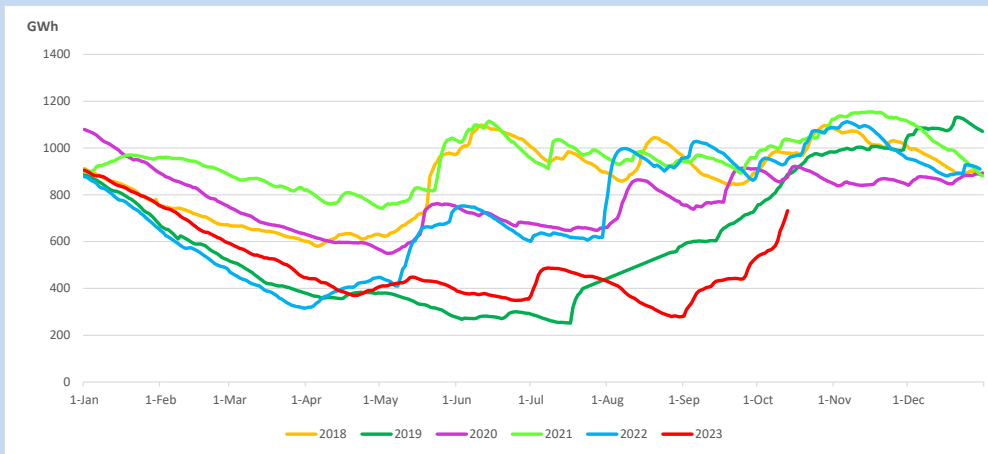
as at 06.00 Hr on October 15, 2023



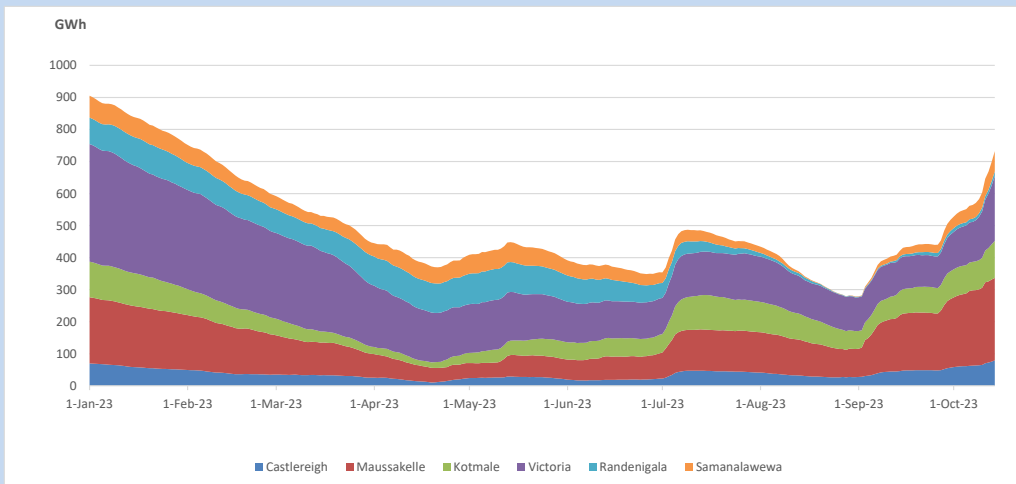
Total Reservoir Level
% of Total capacity

732.1 GWh
60.7%

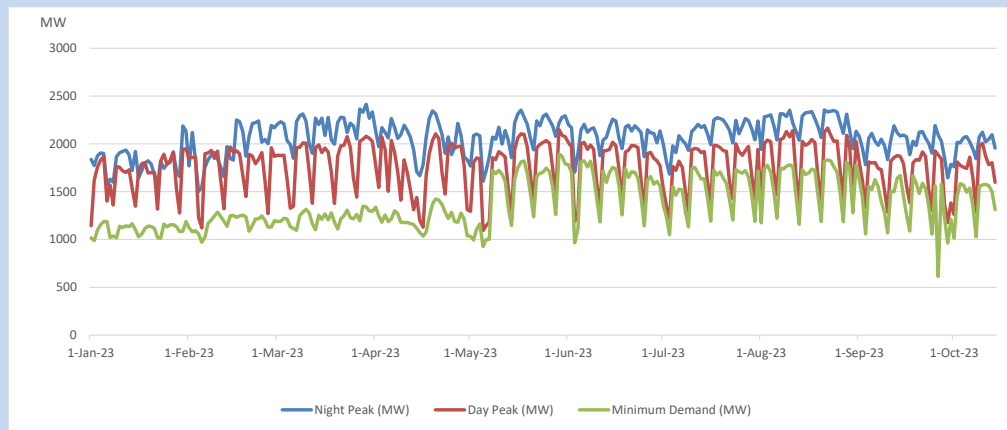
11. Comparison of Total Reservoir Storage Levels with Past Years



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



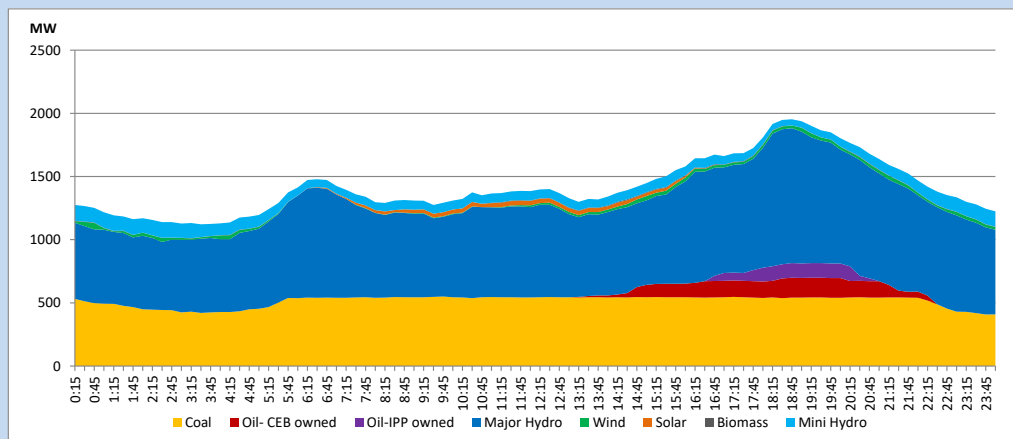
13. Variation of Demand during the current year



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

14. Daily Load Curve

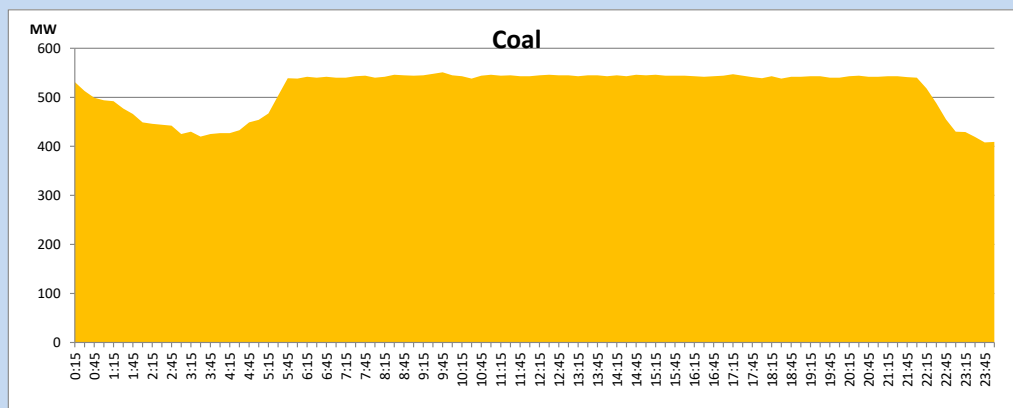
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Solar and wind data is based on Telemetered Power Stations only

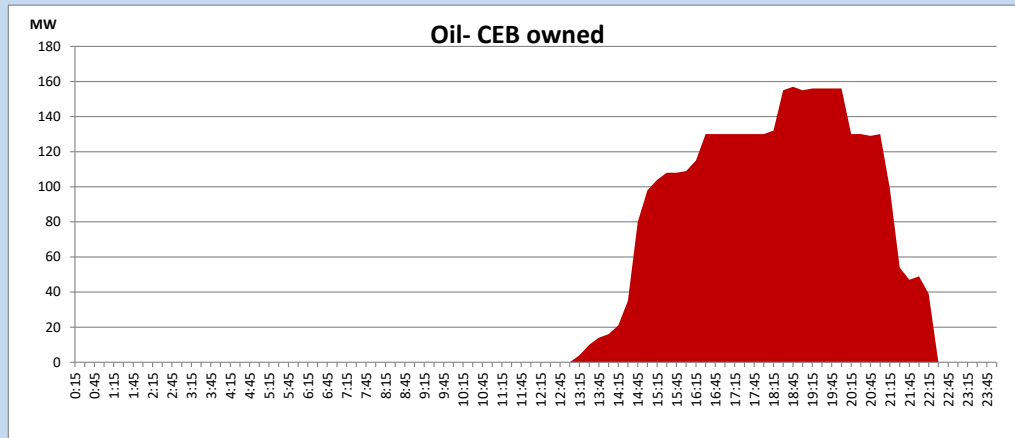
Coal Generation during

October 14, 2023



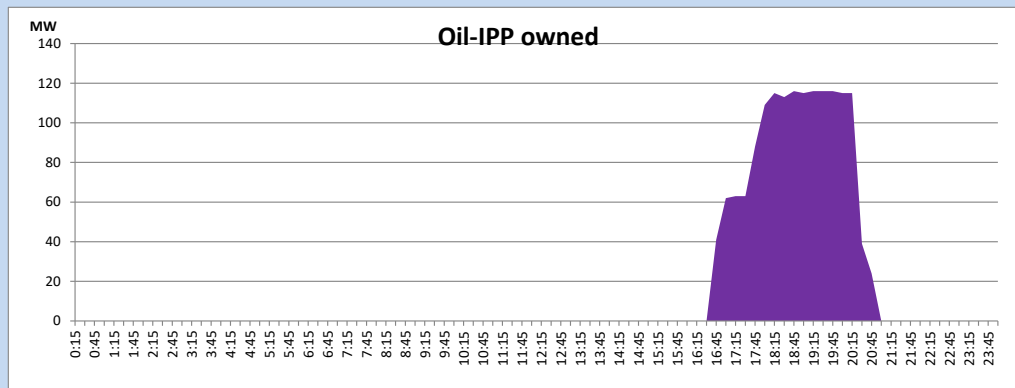
CEB Oil Plant Generation during

October 14, 2023



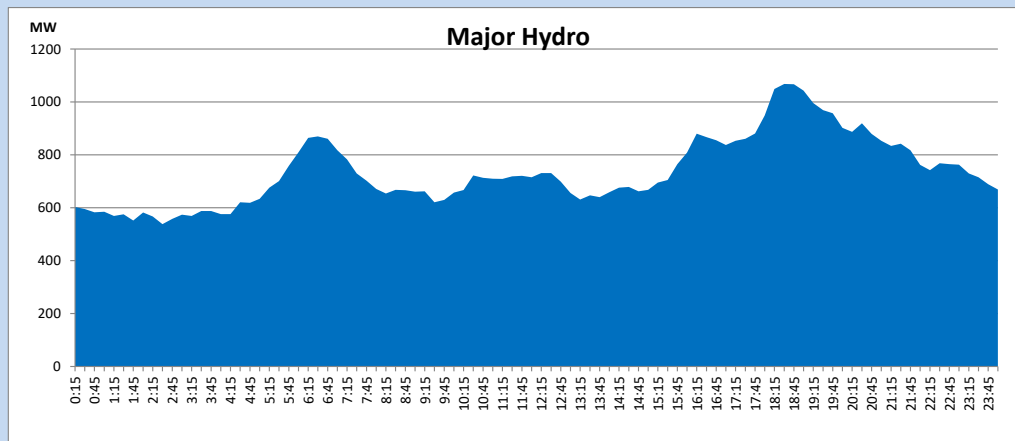
IPP Oil Plant Generation during

October 14, 2023



Major Hydro Generation during

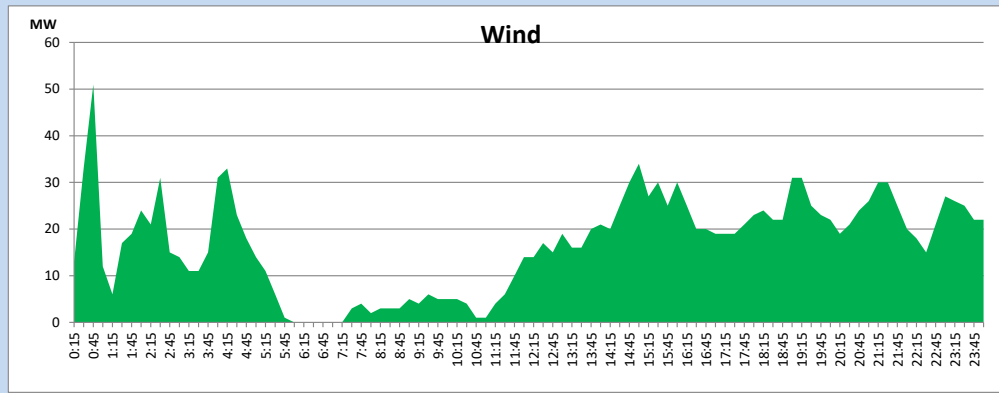
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Wind Generation during

October 14, 2023

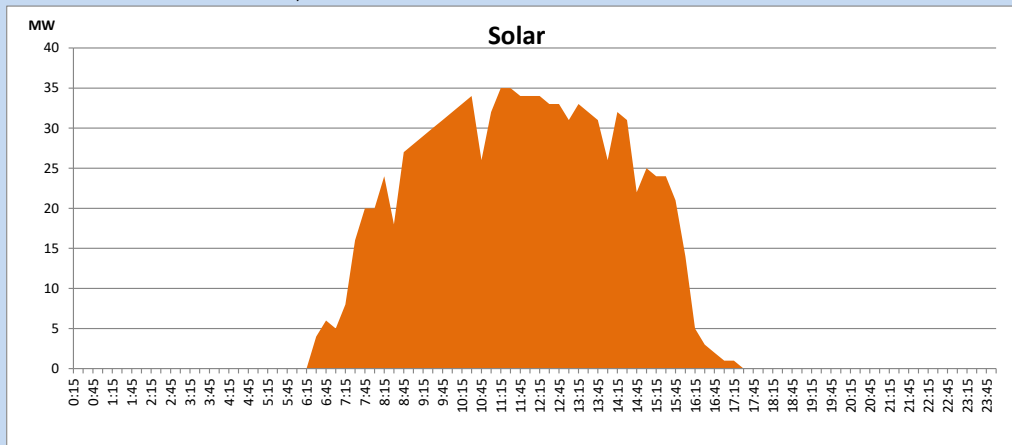
Based on Telemetered Power Stations only



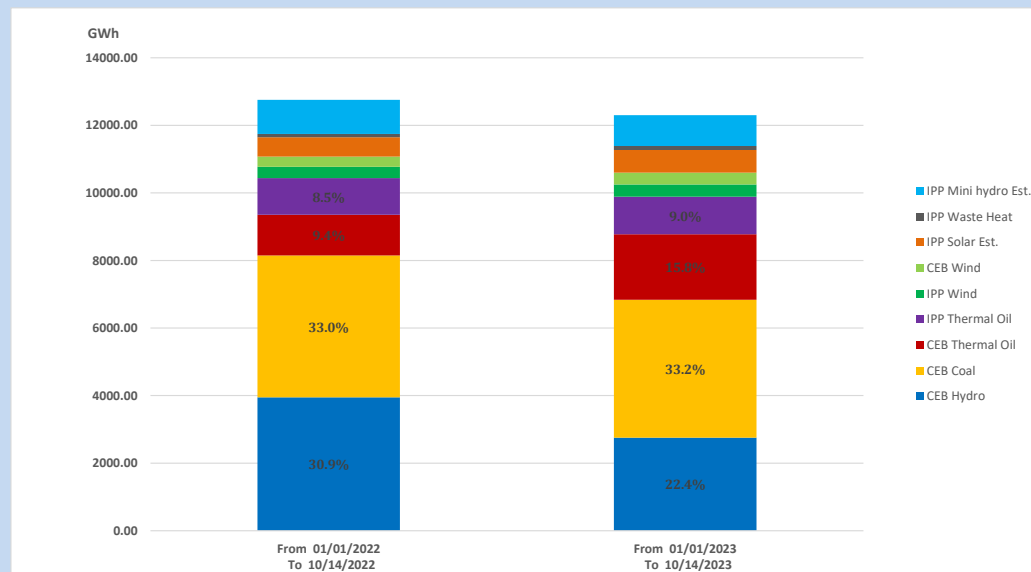
Solar Generation during

October 14, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
From 01/01/2022 To 10/14/2022

12753 GWh

From 01/01/2023 To 10/14/2023

12303 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 14, 2023

- 1). Laxapana pond spilling started at 11:42hrs and stopped at 03:35hrs(15.10.23). Canyon pond spilling started at 08:29hrs and stopped at 01:15hrs(15.10.23). Norton pond spilling started at 17:00hrs and stopped at 18:40hr
- 2). Upper Kotmale pond spilling continues to the present hour.
- 3). Kukule pond spilling stopped at 10:15hrs. Kukule spilling started again at 20:20hrs and continues to the present hour