

Generation and Reservoirs Statistics

October 9, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

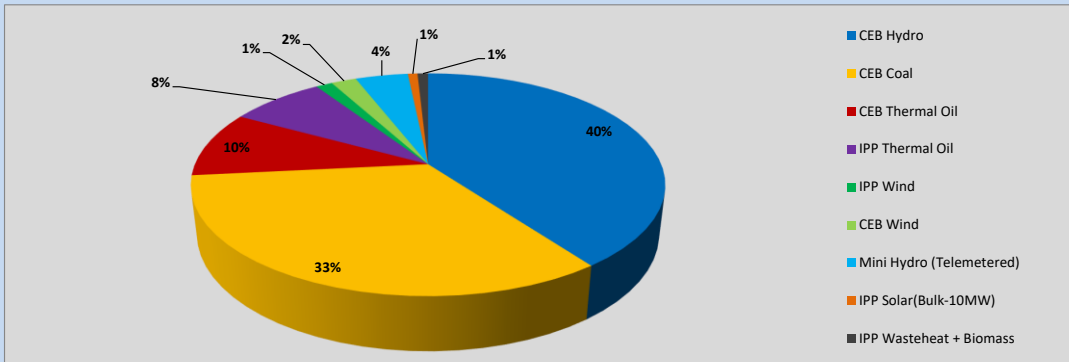


Table 01

	Generation (MWh)
CEB Hydro	15,082
CEB Coal	12,696
CEB Thermal Oil	3,624
IPP Thermal Oil	2,913
IPP Wind	511
CEB Wind	774
Mini Hydro (Telemetered)	1,624
IPP Solar (Bulk)	298
IPP Waste heat + Biomass	326
Total Generation (Excluding estimated figures)	37,848
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	3236
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
Total Generation (Including estimated figures)	43,318

* 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

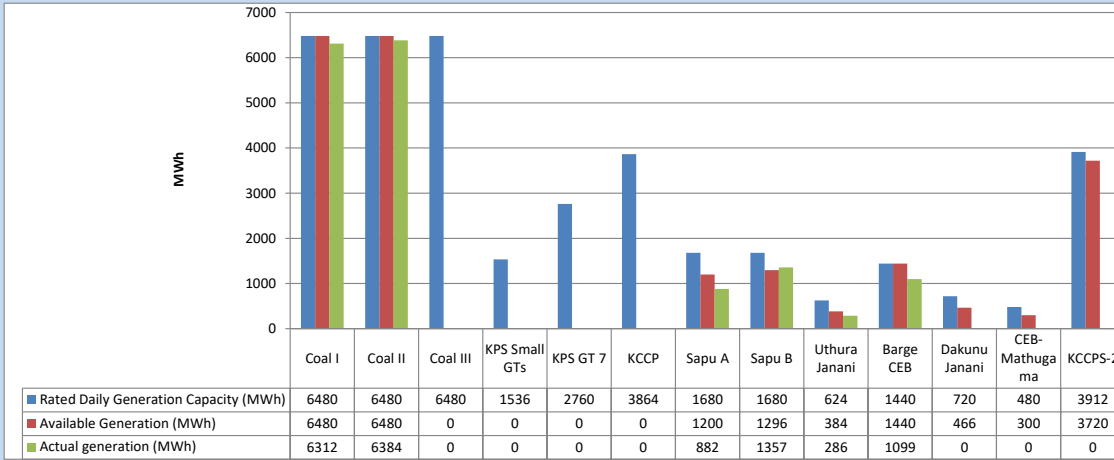
Category	Dispatch (GWh)	
CEB Hydro	117	36.34%
CEB Coal	108	33.54%
CEB Thermal Oil	41	12.60%
IPP Thermal	4	1.24%
SPP Wind	15	4.60%
CEB Wind	16	5.01%
Mini Hydro (Telemetered)	17	5.23%
IPP Solar(Bulk-10MW)	2	0.70%
IPP Waste heat + BMP	2	0.74%
Total	322	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,683	24.64%
CEB Coal	4,027	37.00%
CEB Thermal Oil	1,934	17.77%
IPP Thermal	1,099	10.09%
SPP Wind	340	3.12%
CEB Wind	348	3.20%
Mini Hydro (Telemetered)	268	2.47%
IPP Solar(Bulk-10MW)	85	0.78%
IPP Waste heat	102	0.93%
Total	10,886	

3. CEB owned Thermal Plant Dispatch

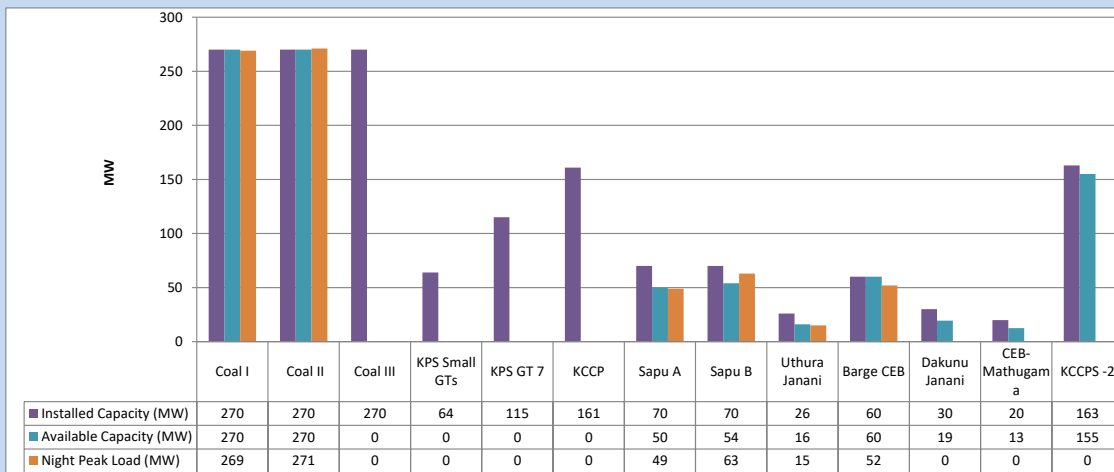
October 9, 2023



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

October 10, 2023

4. CEB owned Thermal Plant Loading at the Night Peak

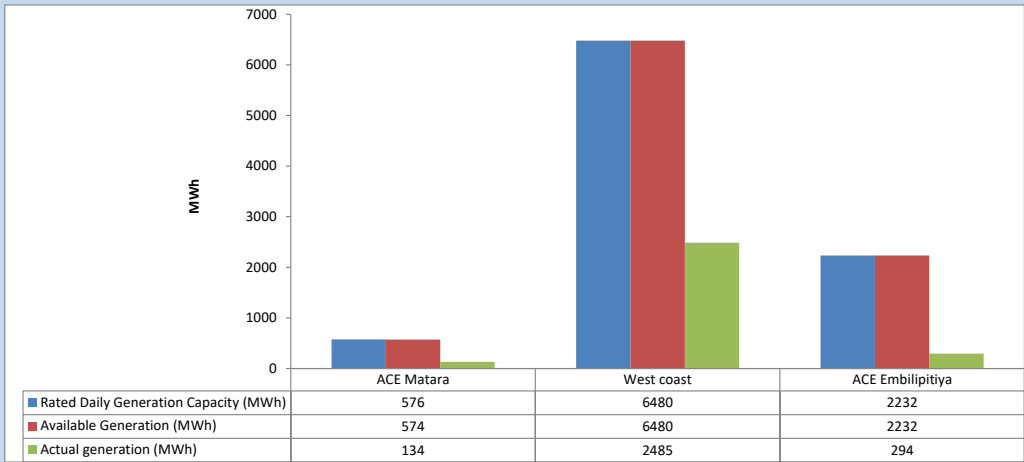


Plant availability is recorded at 6.00 am on

October 10, 2023

5. IPP owned Thermal Plant Dispatch

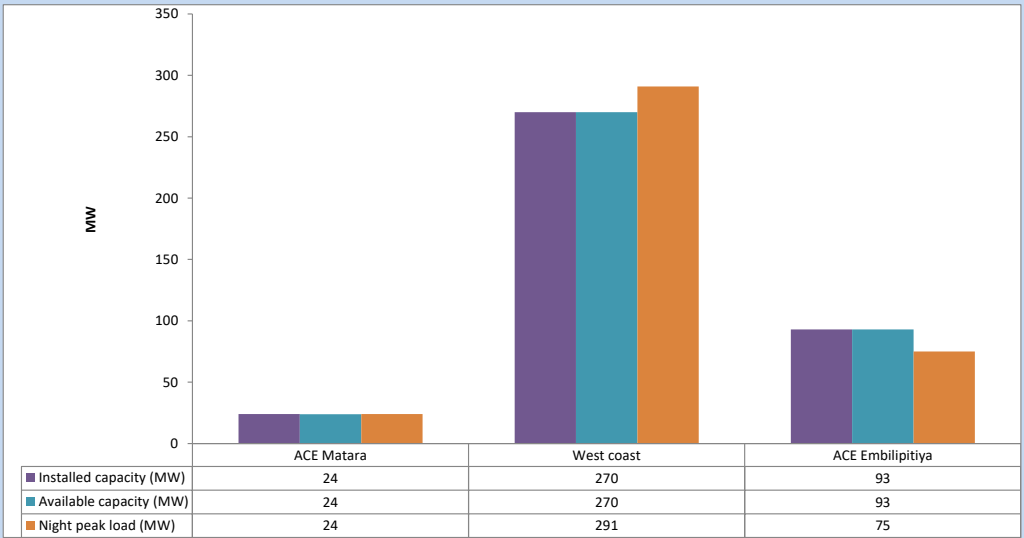
October 9, 2023



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

October 10, 2023

6. IPP owned Thermal Plant Loading at the Night Peak

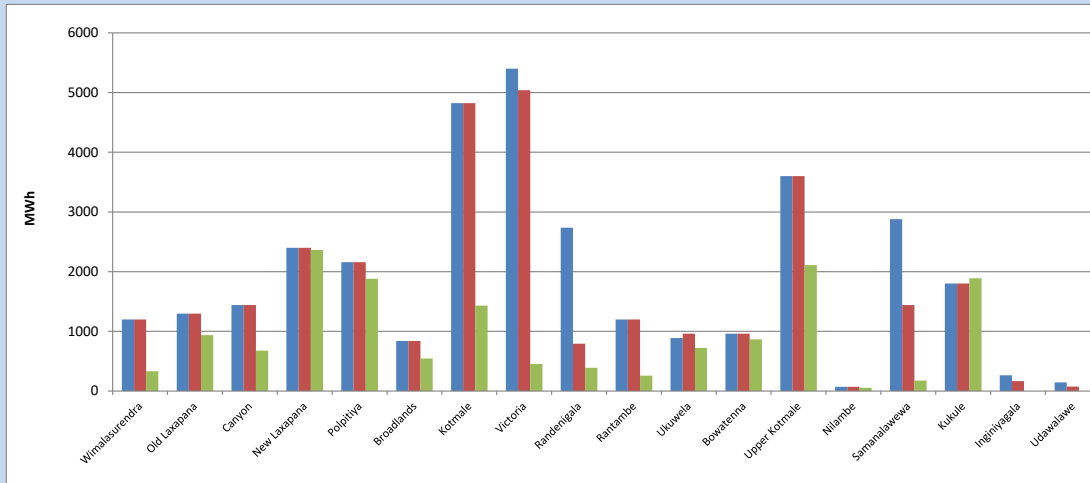


Plant availability is recorded at 6.00 am on

October 10, 2023

7. Major Hydro Plant Dispatch

October 9, 2023

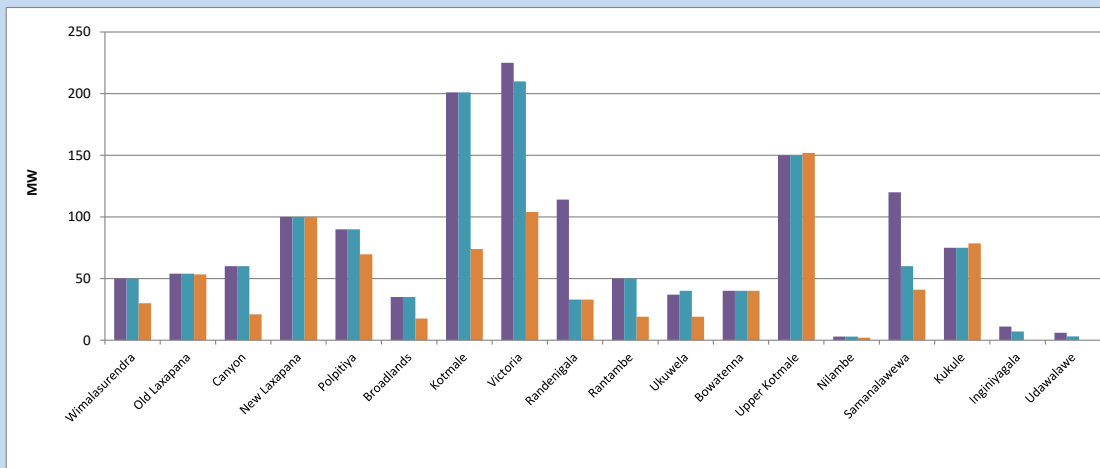


Available Generation is estimated based on plant availability at 6.00am on October 10, 2023
Broadlands power plant is operating in the Commissioning Stage

October 10, 2023

8. Major Hydro Plant Loading at Night Peak

October 9, 2023



Plant availability is recorded at 6.00 am on October 10, 2023
Broadlands power plant is operating in the Commissioning Stage

October 10, 2023

9. Summary of Major Plant performance

Table 05

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	331
Old Laxapana Canyon	54	54	53	936
New Laxapana	60	60	21	676
Polpitiya	100	100	100	2,362
Broadlands	90	90	70	1,880
Kotmale	35	35	18	546
Victoria	201	201	74	1,430
Randenigala	225	210	104	453
Rantambe	114	33	33	389
Ukuwela	50	50	19	258
Bowatenna	37	40	19	724
Upper Kotmale	40	40	40	867
Nilambe	150	150	152	2,109
Samanalawewa	3	3	2	55
Kukule	120	60	41	175
Inginiyagala	75	75	79	1,891
Udawalawe	11	7	0	0
Puttalam Coal I	6	3	0	0
Puttalam Coal II	270	270	269	6,312
Puttalam Coal III	270	270	271	6,384
KPS Small GTs	270	0	0	0
KPS GT 7	64	0	0	0
KCCP	115	0	0	0
Sapugaskanda A	161	0	0	0
Sapugaskanda B	70	50	49	882
Uthura Janani	70	54	63	1,357
Barge CEB	26	16	15	286
CEB-Hambantota	60	60	52	1,099
CEB-Mathugama	30	19	0	0
ACE Matara	20	13	0	0
Asia Power	24	24	24	134
KCCPS -2	50	0	0	0
West Coast	163	155	0	0
Nothern Power	270	270	291	2,485
ACE Embilipitiya	36	0	0	0
Total	93	93	75	294
	3,483	2,555	2,077	37,848

Plant availability is the availability recorded at 6 am on

October 10, 2023

10. Contribution to the Night Peak in MW

October 9, 2023

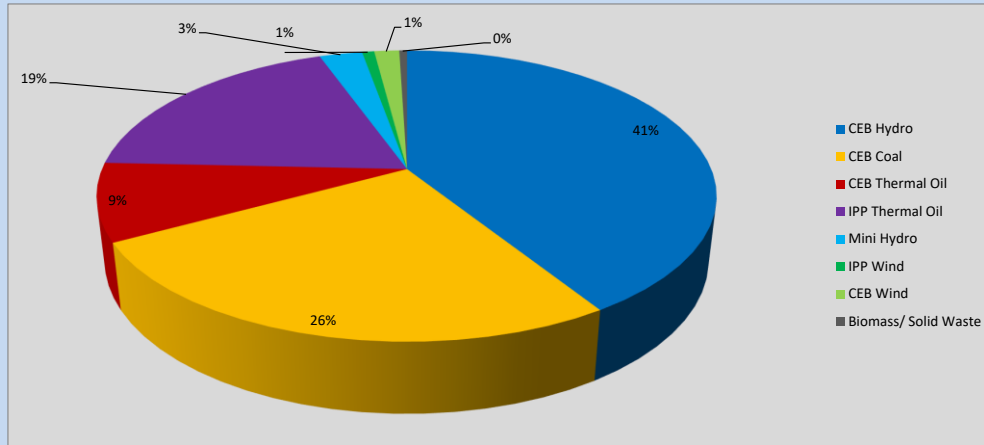


Table 06

CEB Hydro	850	MW
CEB Coal	540	MW
CEB Thermal Oil	179	MW
IPP Thermal Oil	390	MW
Mini Hydro (Telemetered)	55	MW
IPP Wind	15.7	MW
CEB Wind	32.3	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

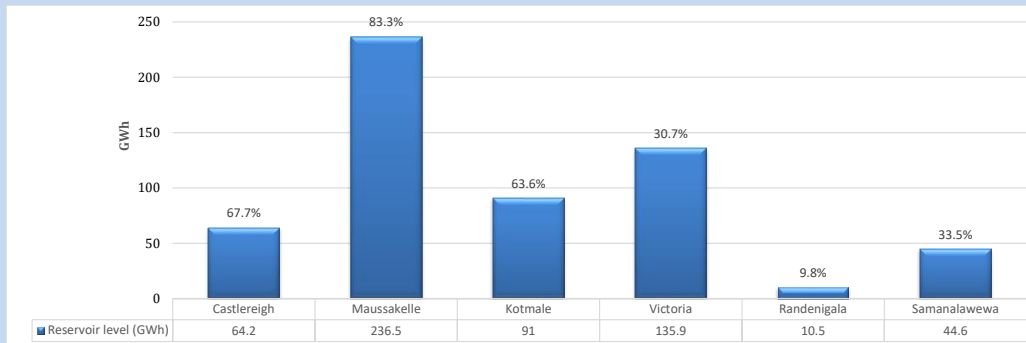
Table 07

Night Peak*	2,073	MW
Day Peak Maximum Demand	1,973	MW
Day Peak Minimum Demand	1,552	MW
Off Peak Minimum Demand	1,055	MW

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

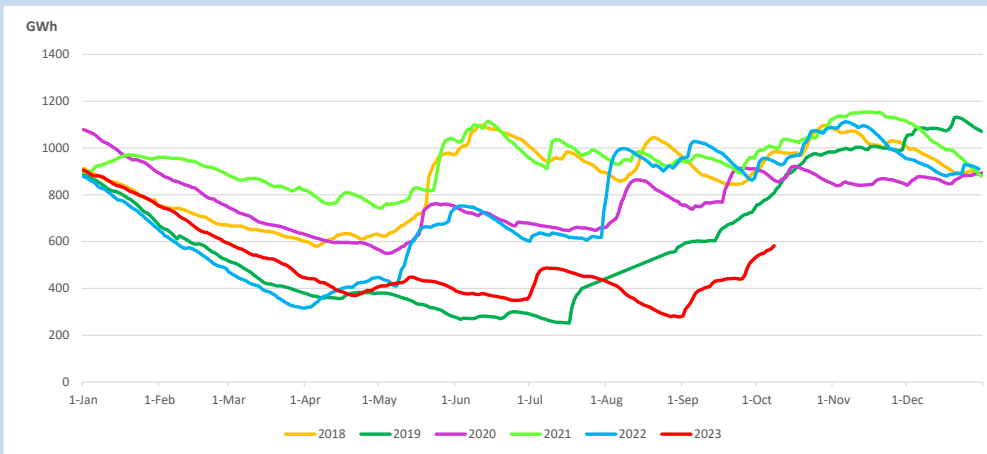
Reservoir Levels -

as at 06.00 Hr on October 10, 2023

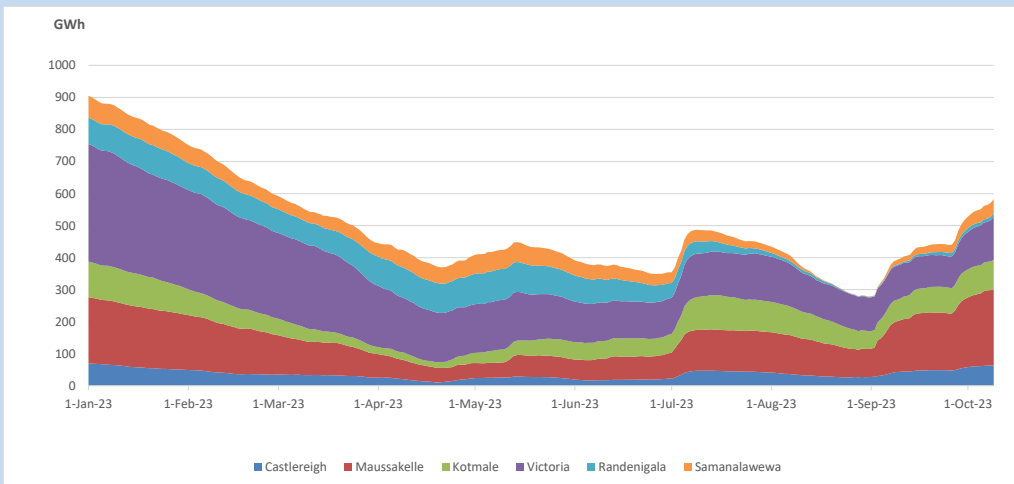


Total Reservoir Level 582.7 GWh
 % of Total capacity 48.4%

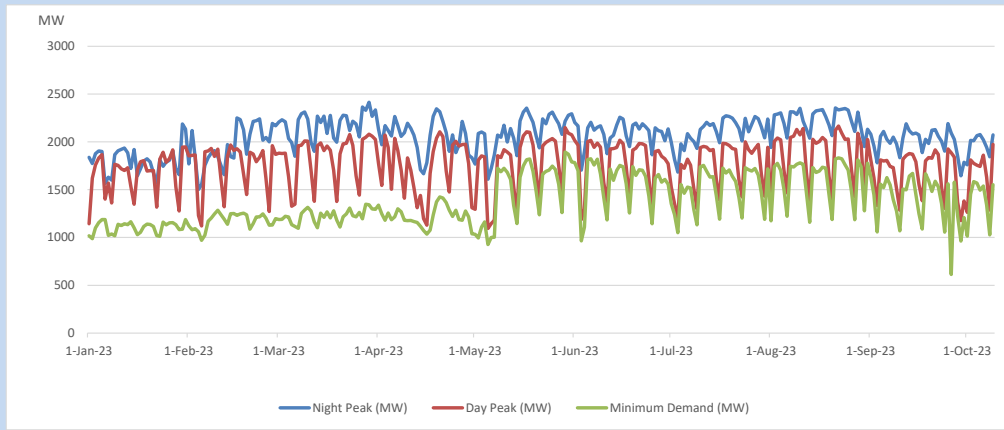
11. Comparison of Total Reservoir Storage Levels with Past Years



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



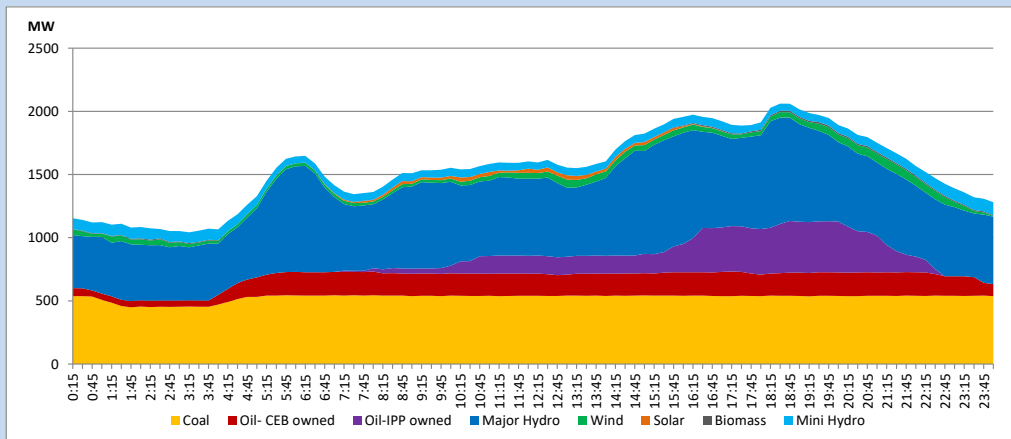
13. Variation of Demand during the current year



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

14. Daily Load Curve

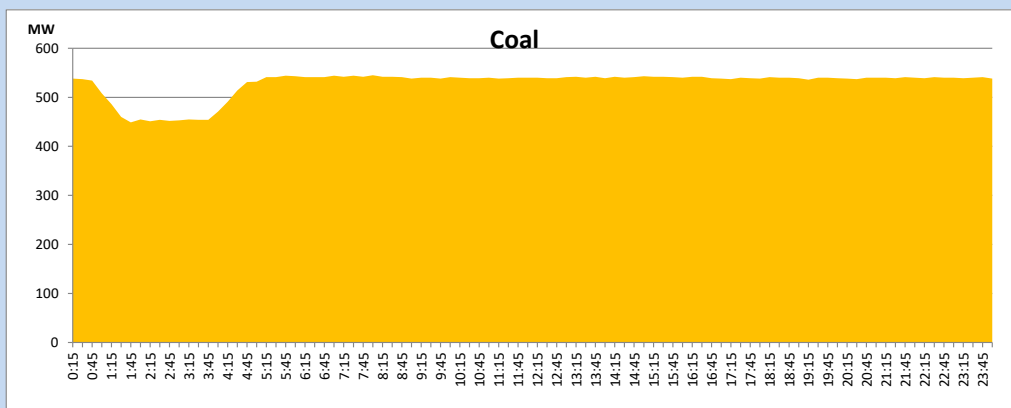
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Solar and wind data is based on Telemetered Power Stations only

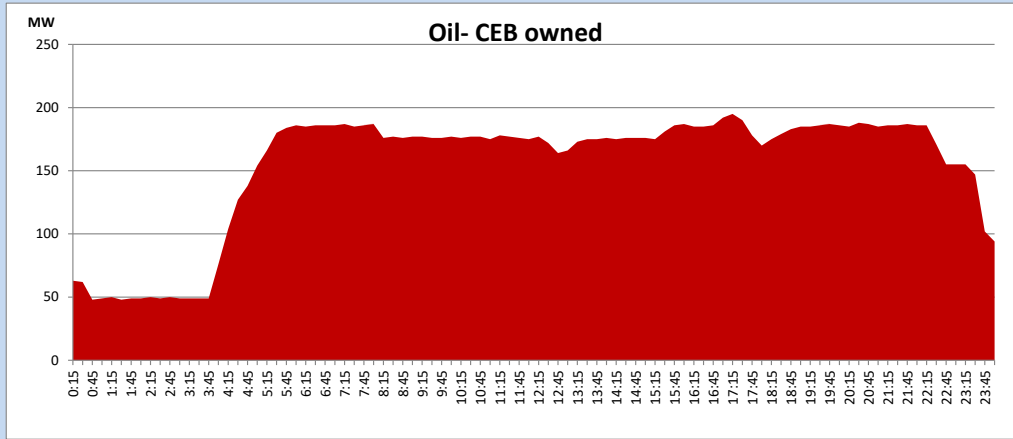
Coal Generation during

October 9, 2023



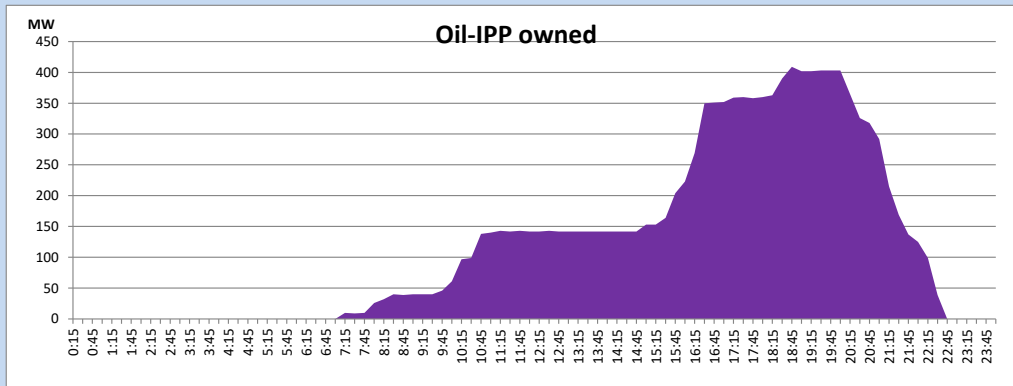
CEB Oil Plant Generation during

October 9, 2023



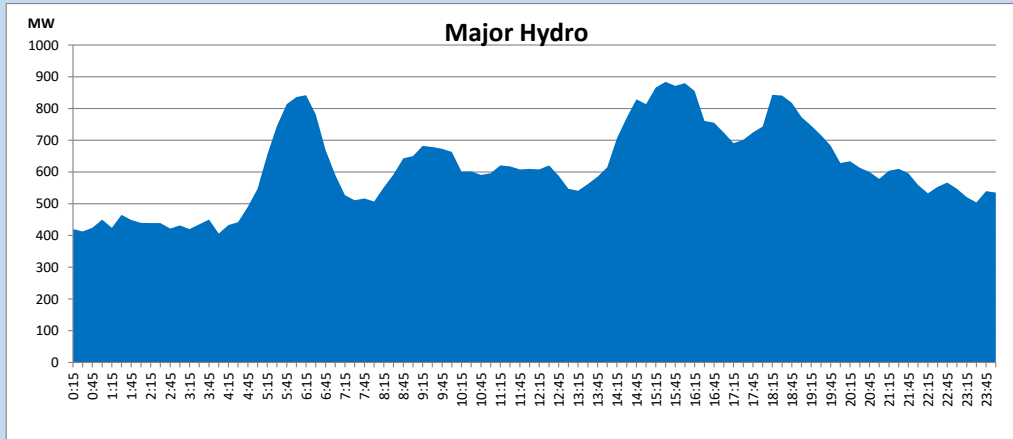
IPP Oil Plant Generation during

October 9, 2023



Major Hydro Generation during

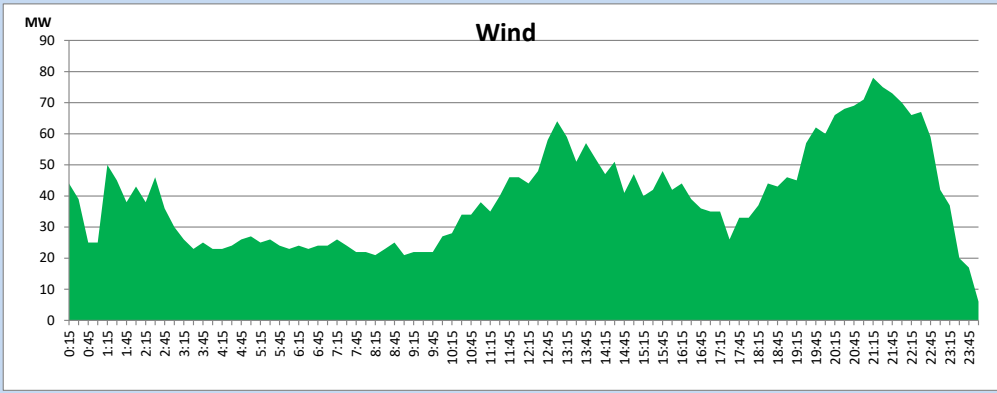
October 9, 2023



Wind Generation during

October 9, 2023

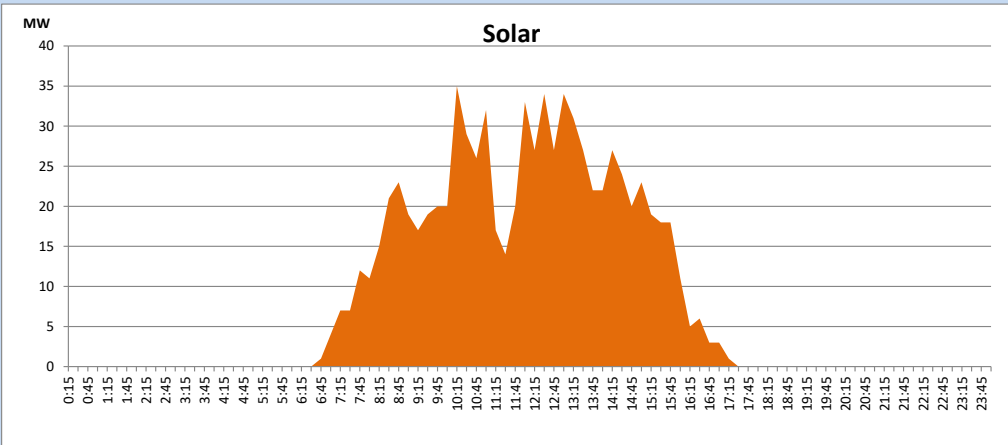
Based on Telemetered Power Stations only



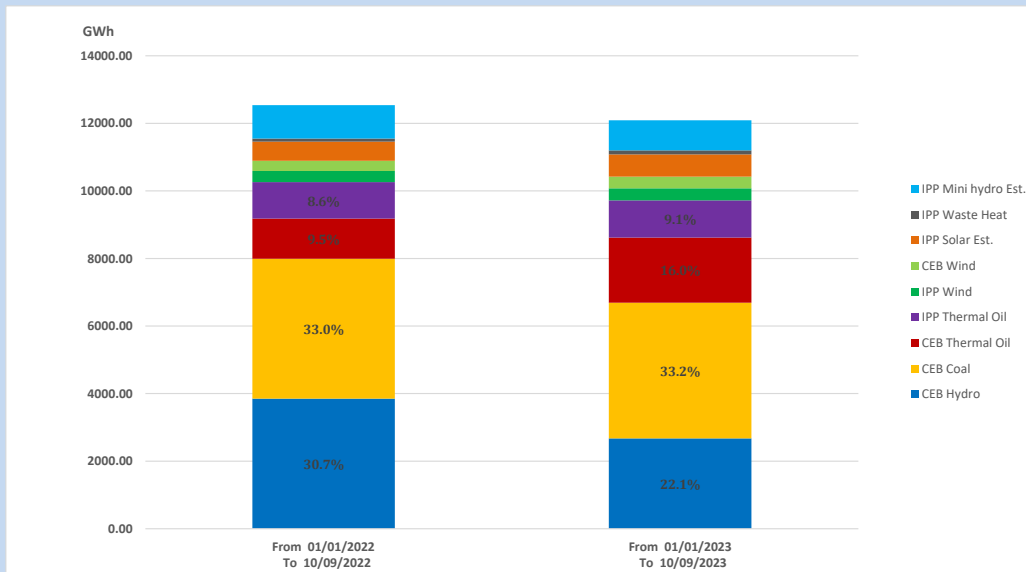
Solar Generation during

October 9, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2022 To 10/09/2022

12537 GWh

From 01/01/2023 To 10/09/2023

12090 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 9, 2023

- 1) New Chillaw – Veyangoda 220kV cct 01 tripped from both ends at 08:39hrs due to the operation of differential protection. The cct was normalized at 08:55hrs.
- 2) Kukule spilling continues to present hour.