

# Generation and Reservoirs Statistics

October 15, 2023



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

## 1. Daily Generation Mix in MWh

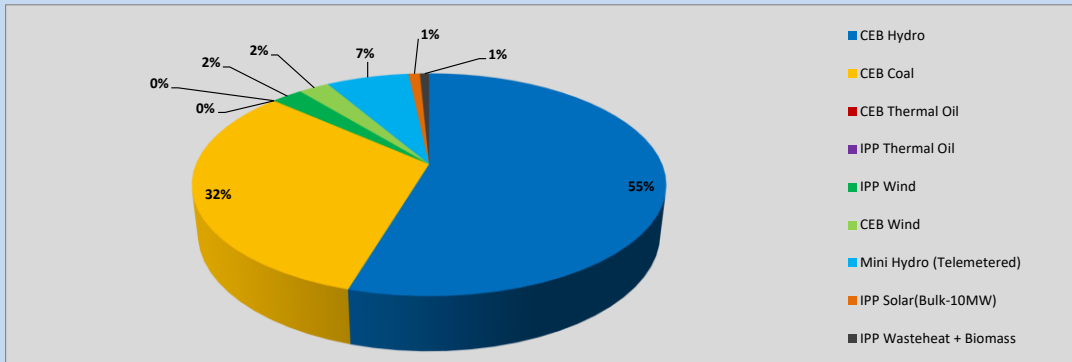


Table 01

	Generation (MWh)
CEB Hydro	16,393
CEB Coal	9,580
CEB Thermal Oil	1
IPP Thermal Oil	-
IPP Wind	766
CEB Wind	748
Mini Hydro (Telemetered)	2,026
IPP Solar (Bulk)	279
IPP Waste heat + Biomass	225
<b>Total Generation (Excluding estimated figures)</b>	<b>30,018</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2834
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1930
<b>Total Generation (Including estimated figures)</b>	<b>35,086</b>

\* 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

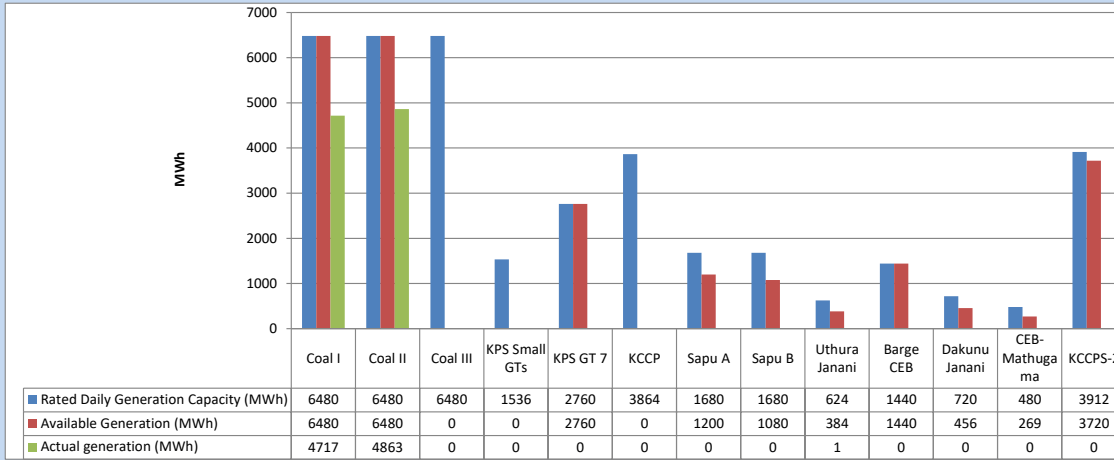
Category	Dispatch (GWh)	
CEB Hydro	217	40.26%
CEB Coal	180	33.35%
CEB Thermal Oil	53	9.77%
IPP Thermal	14	2.67%
SPP Wind	19	3.49%
CEB Wind	21	3.91%
Mini Hydro (Telemetered)	28	5.14%
IPP Solar(Bulk-10MW)	4	0.72%
IPP Waste heat + BMP	4	0.70%
<b>Total</b>	<b>539</b>	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,782	25.06%
CEB Coal	4,099	36.92%
CEB Thermal Oil	1,946	17.53%
IPP Thermal	1,109	9.99%
SPP Wind	344	3.10%
CEB Wind	353	3.18%
Mini Hydro (Telemetered)	279	2.52%
IPP Solar(Bulk-10MW)	86	0.78%
IPP Waste heat	103	0.93%
<b>Total</b>	<b>11,103</b>	

### 3. CEB owned Thermal Plant Dispatch

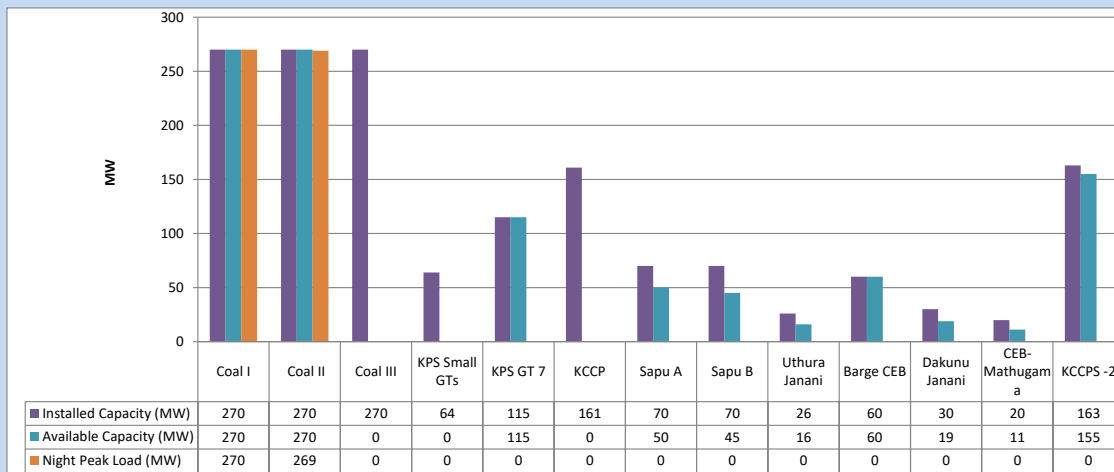
October 15, 2023



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

October 16, 2023

### 4. CEB owned Thermal Plant Loading at the Night Peak

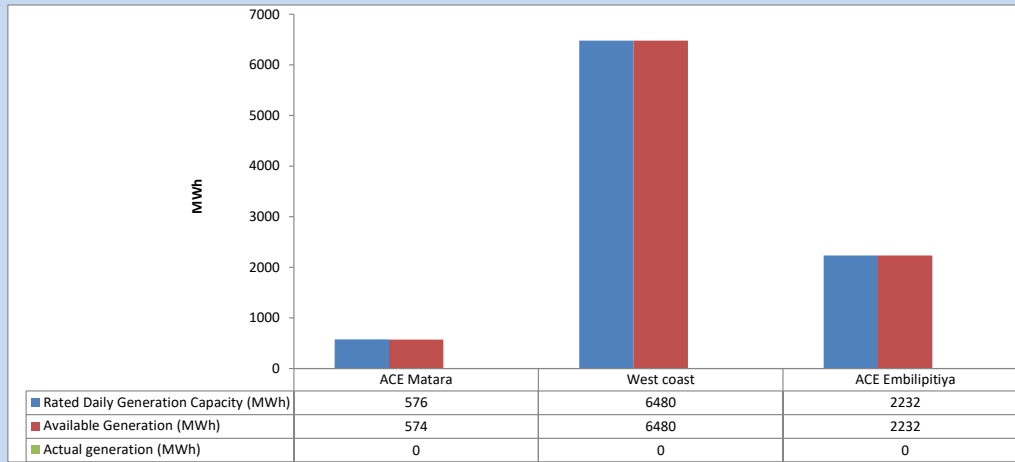


Plant availability is recorded at 6.00 am on

October 16, 2023

### 5. IPP owned Thermal Plant Dispatch

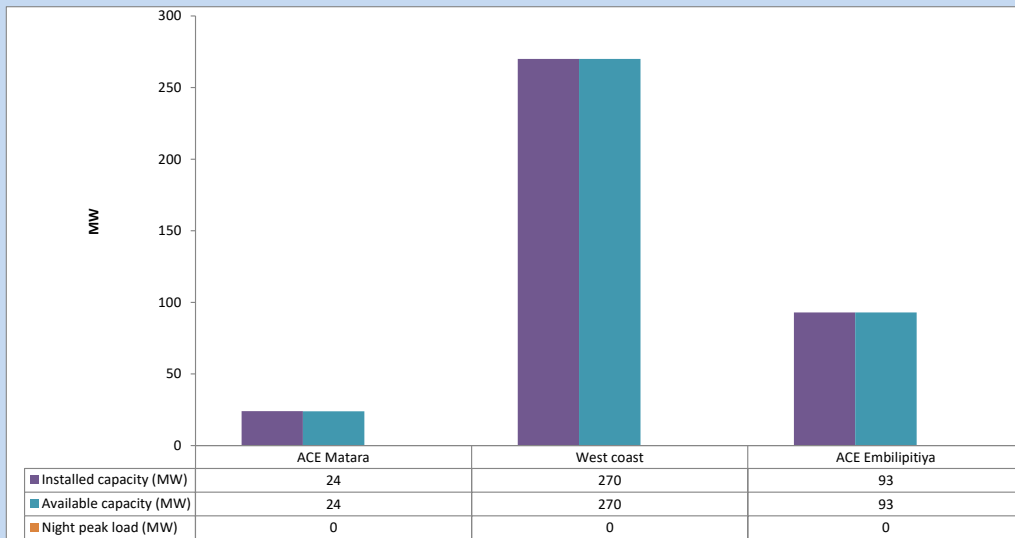
October 15, 2023



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

October 16, 2023

### 6. IPP owned Thermal Plant Loading at the Night Peak

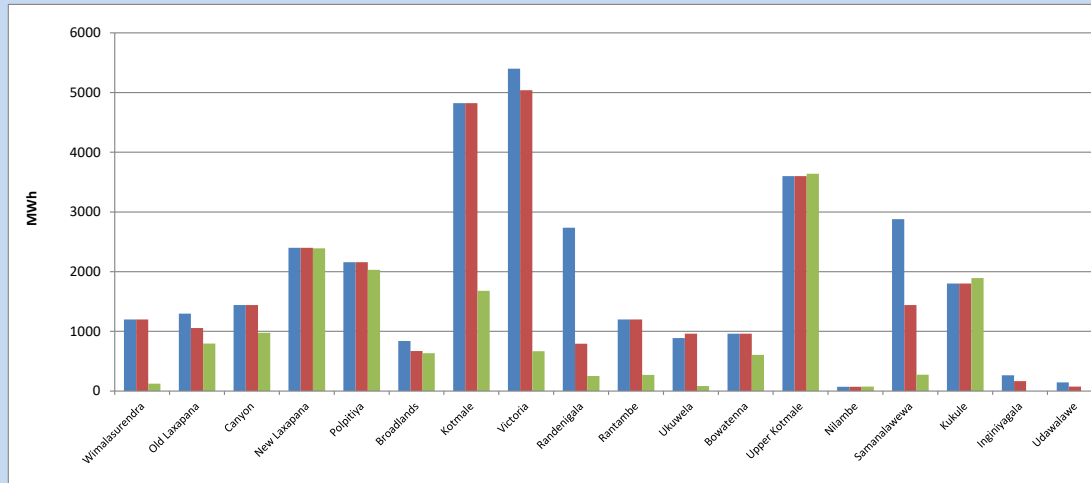


Plant availability is recorded at 6.00 am on

October 16, 2023

### 7. Major Hydro Plant Dispatch

October 15, 2023

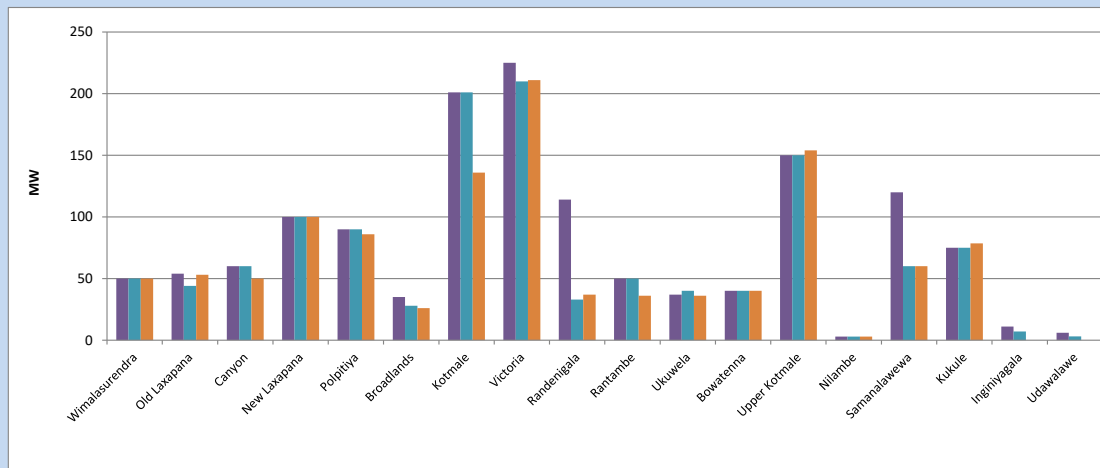


Available Generation is estimated based on plant availability at 6.00am on October 16, 2023  
Broadlands power plant is operating in the Commissioning Stage

October 16, 2023

### 8. Major Hydro Plant Loading at Night Peak

October 15, 2023



Plant availability is recorded at 6.00 am on October 16, 2023  
Broadlands power plant is operating in the Commissioning Stage

October 16, 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	125
Old Laxapana	54	44	53	796
Canyon	60	60	50	976
New Laxapana	100	100	100	2,390
Polpitiya	90	90	86	2,030
Broadlands	35	28	26	634
Kotmale	201	201	136	1,680
Victoria	225	210	211	669
Randenigala	114	33	37	252
Rantambe	50	50	36	271
Ukuwela	37	40	36	83
Bowatenna	40	40	40	606
Upper Kotmale	150	150	154	3,640
Nilambe	3	3	3	75
Samanalawewa	120	60	60	272
Kukule	75	75	79	1,894
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	270	4,717
Puttalam Coal II	270	270	269	4,863
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	45	0	0
Uthura Janani	26	16	0	1
Barge CEB	60	60	0	0
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	11	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
<b>Total</b>	<b>3,483</b>	<b>2,642</b>	<b>1,796</b>	<b>30,018</b>

Plant availability is the availability recorded at 6 am on

October 16, 2023

### 10. Contribution to the Night Peak in MW

October 15, 2023

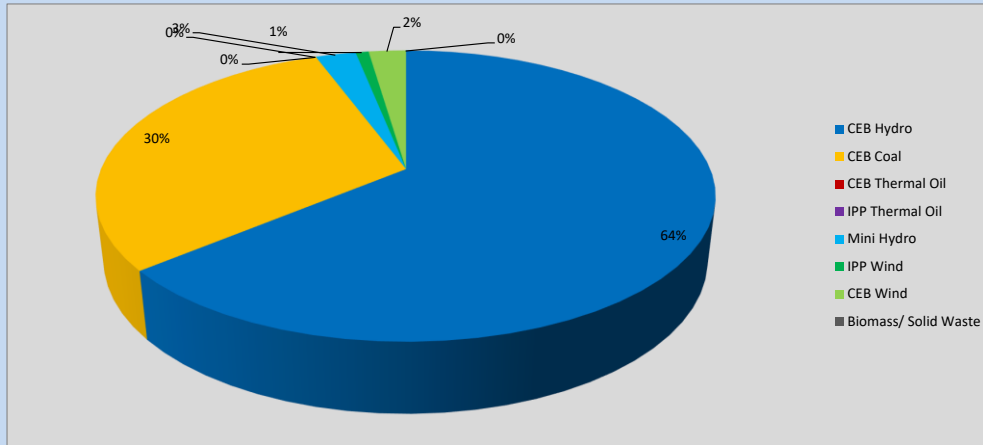


Table 06

CEB Hydro	1136	MW
CEB Coal	539	MW
CEB Thermal Oil	0	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	45	MW
IPP Wind	14.4	MW
CEB Wind	41.3	MW
Biomass/ Solid Waste	0	MW

### Recorded Peak Demand Data

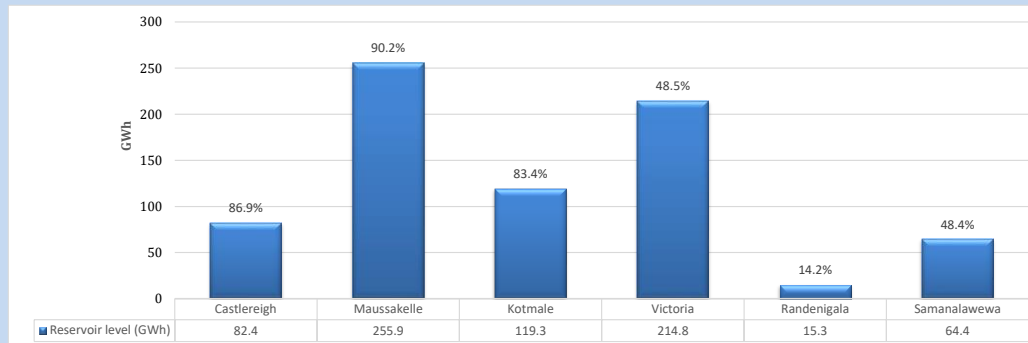
Table 07

Night Peak*	1,775	MW
Day Peak Maximum Demand	1,176	MW
Day Peak Minimum Demand	979	MW
Off Peak Minimum Demand	1,069	MW

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

### Reservoir Levels -

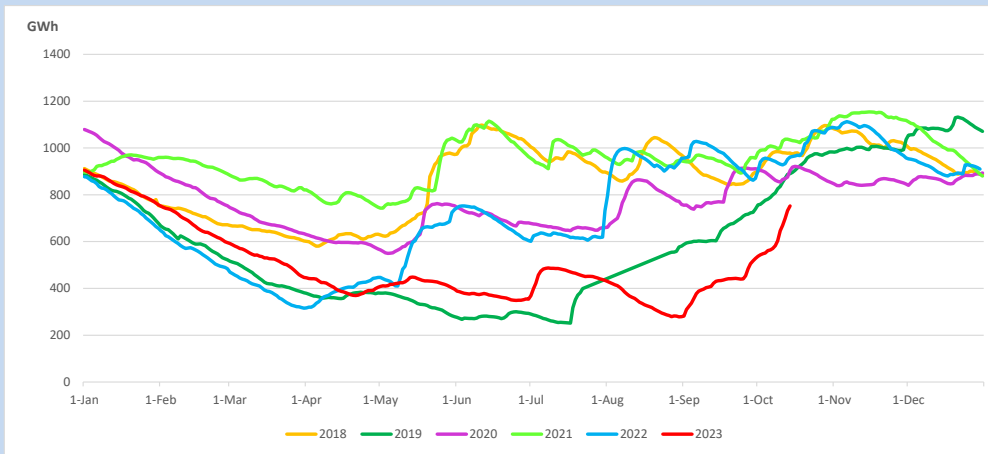
as at 06.00 Hr on October 16, 2023



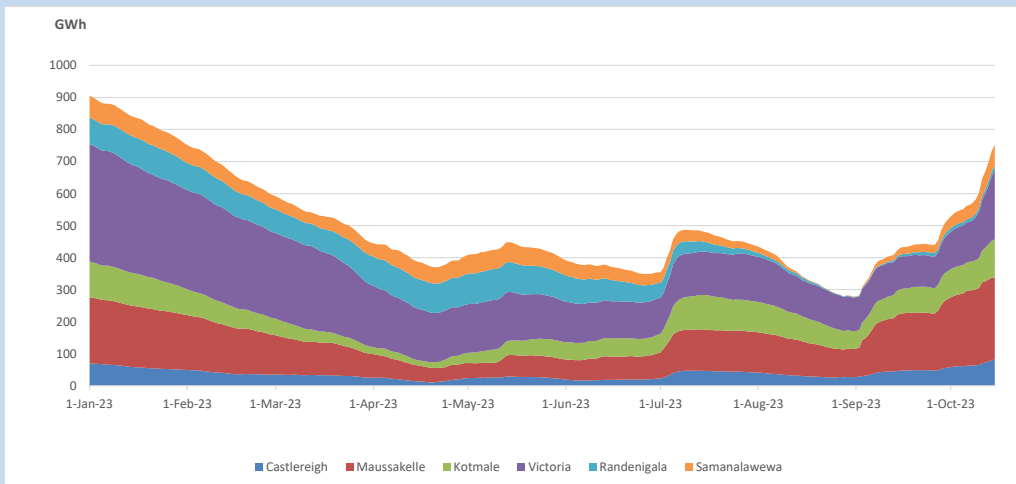
Total Reservoir Level  
% of Total capacity

752.1 GWh  
62.4%

### 11. Comparison of Total Reservoir Storage Levels with Past Years

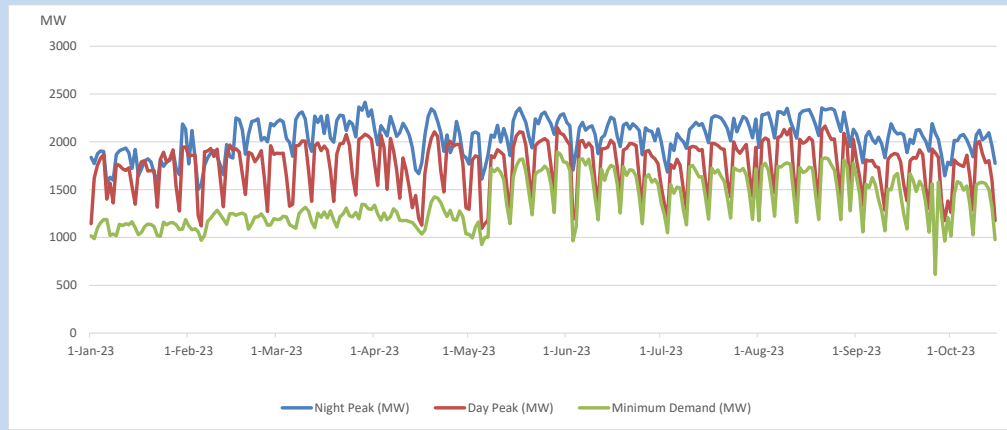


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





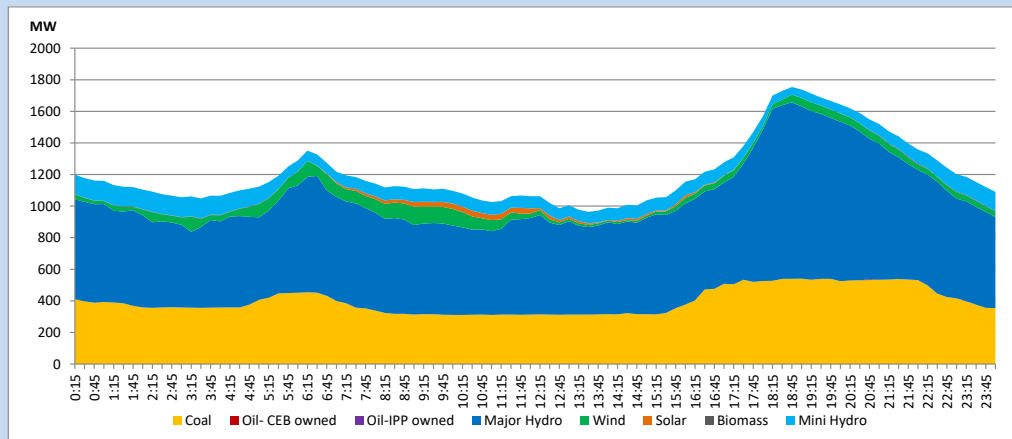
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

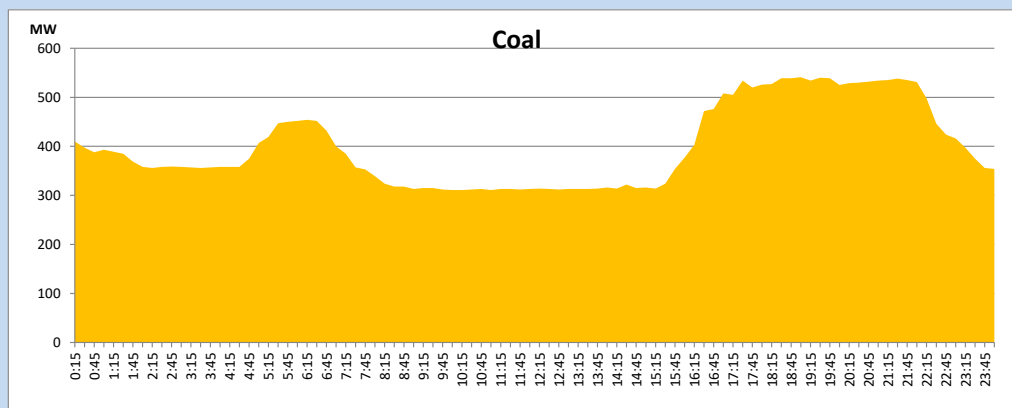
October 15, 2023



Solar and wind data is based on Telemetered Power Stations only

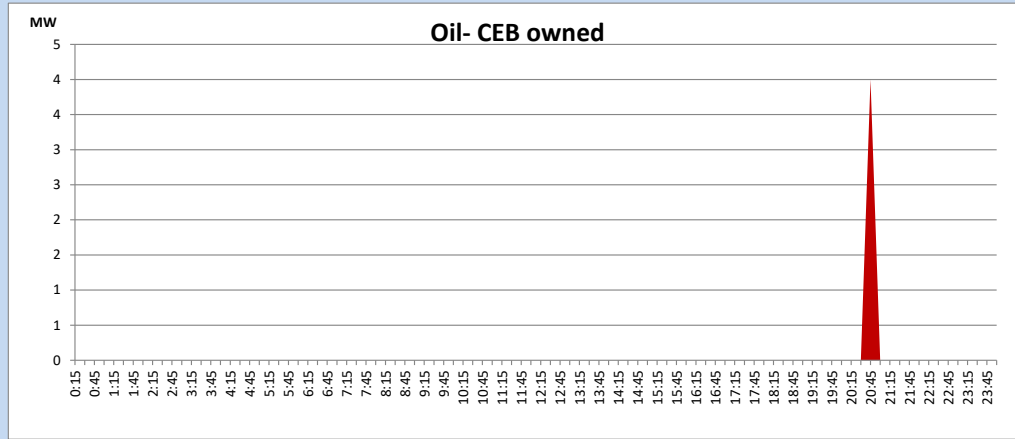
### Coal Generation during

October 15, 2023



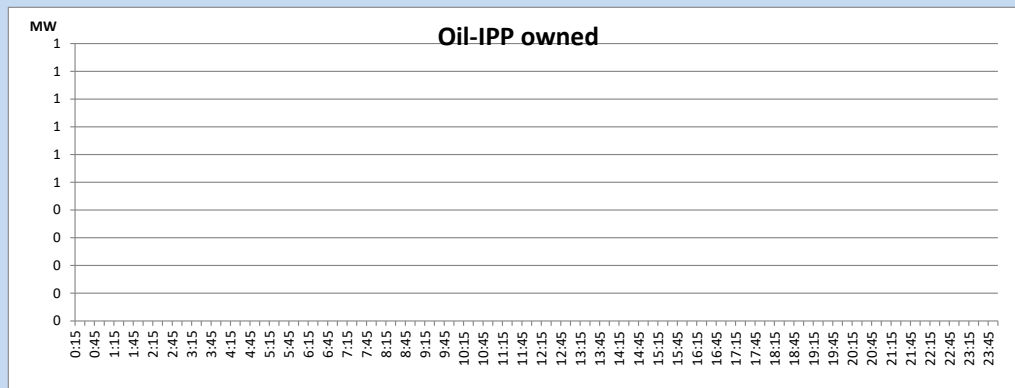
CEB Oil Plant Generation during

October 15, 2023



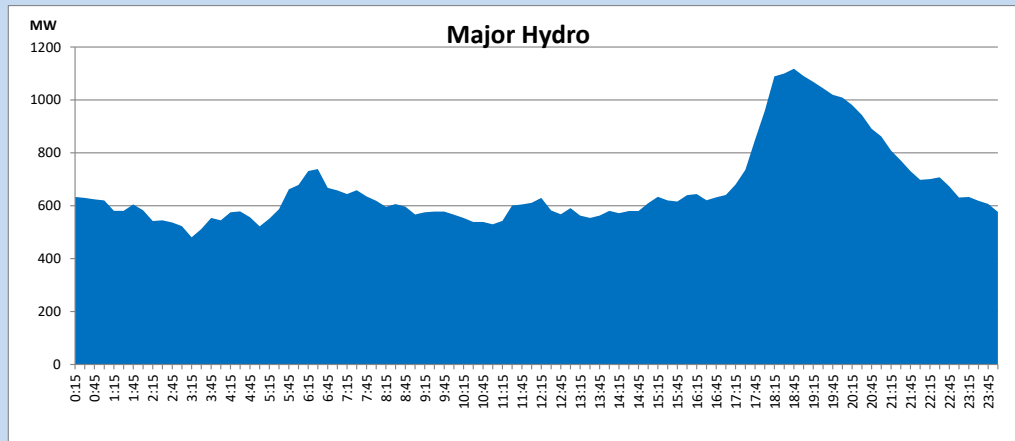
IPP Oil Plant Generation during

October 15, 2023



Major Hydro Generation during

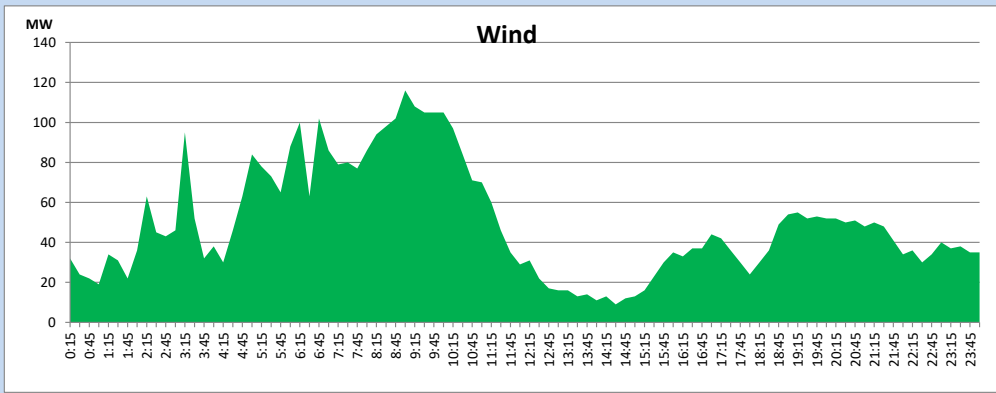
October 15, 2023



## Wind Generation during

October 15, 2023

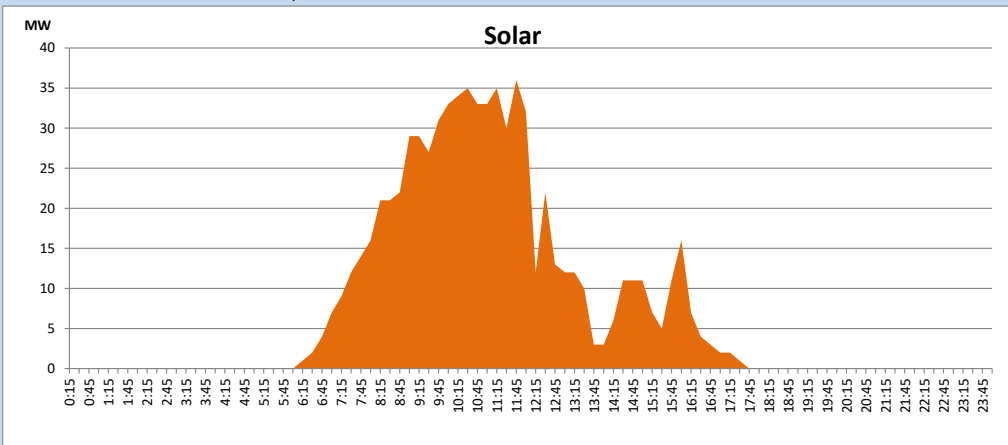
Based on Telemetered Power Stations only



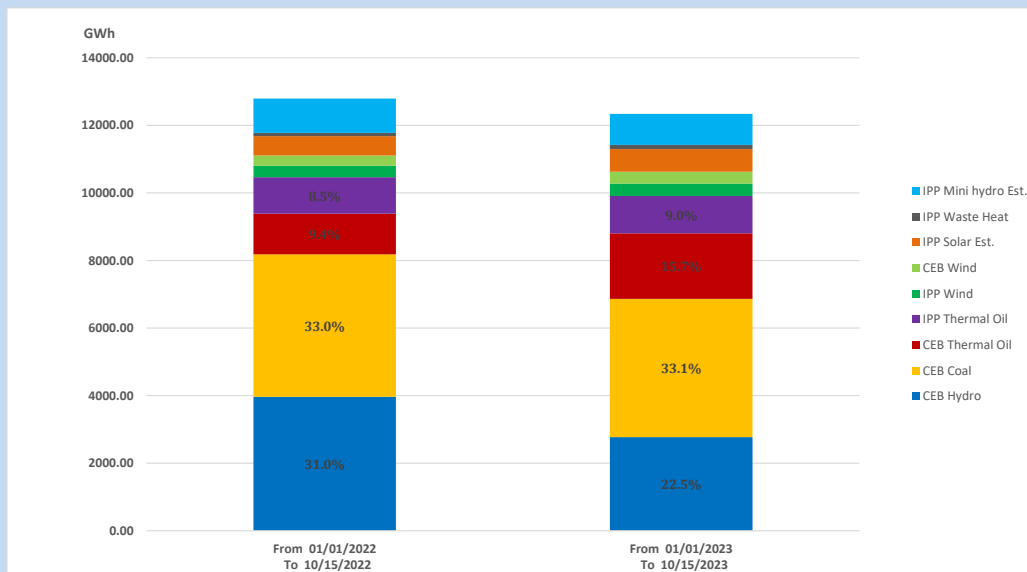
## Solar Generation during

October 15, 2023

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
 From 01/01/2022 To 10/15/2022  
 From 01/01/2023 To 10/15/2023

12792 GWh  
 12338 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 15, 2023

- 1). Upper Kothmale, Laxapana, and Broadland ponds spilled intermittently and spilling stopped at 22:30hrs, 04:45hrs(16.10.2023) and 05:08hrs(16.10.2023) respectively.
- 2) Kukule pond spilling stopped at 03:40hrs (16.10.2023)
- 3) Canyon pond spilled intermittently and pond spilling continues to the present hour