

# Generation and Reservoirs Statistics

August 30, 2023



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

## 1. Daily Generation Mix in MWh

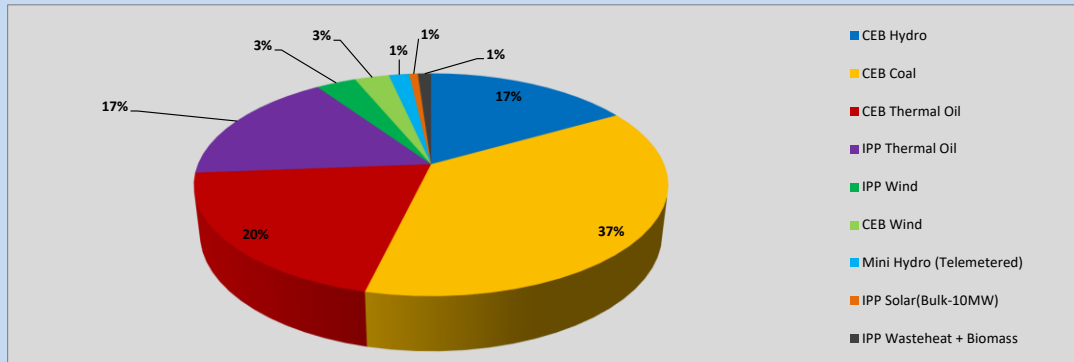


Table 01

	Generation (MWh)
CEB Hydro	5,887
CEB Coal	12,991
CEB Thermal Oil	7,037
IPP Thermal Oil	5,873
IPP Wind	1,148
CEB Wind	987
Mini Hydro (Telemetered)	582
IPP Solar (Bulk)	249
IPP Waste heat + Biomass	379
<b>Total Generation (Excluding estimated figures)</b>	<b>35,133</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	3188
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
<b>Total Generation (Including estimated figures)</b>	<b>40,275</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)	294
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

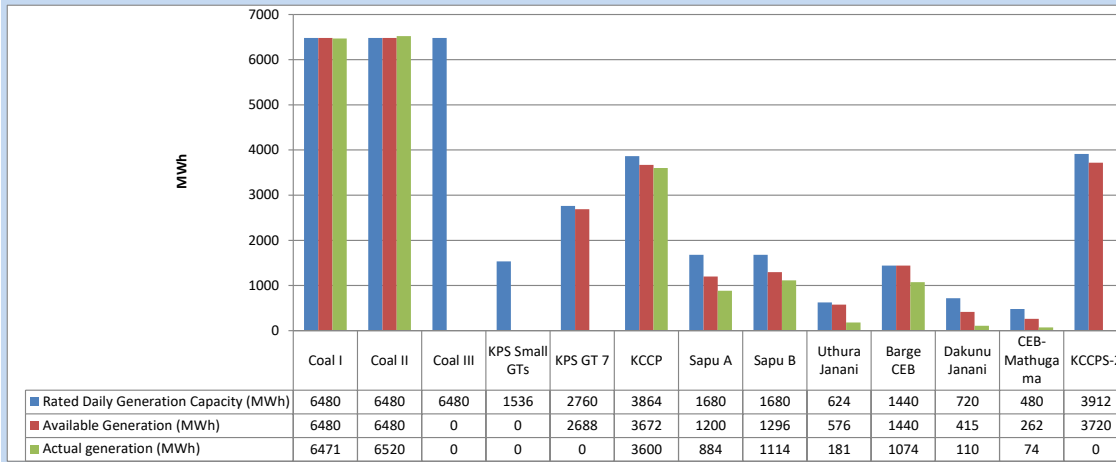
Category	Dispatch (GWh)	
CEB Hydro	246	19.65%
CEB Coal	322	25.71%
CEB Thermal Oil	370	29.56%
IPP Thermal	180	14.35%
SPP Wind	49	3.90%
CEB Wind	52	4.12%
Mini Hydro (Telemetered)	9	0.70%
IPP Solar (Bulk-10MW)	11	0.87%
IPP Waste heat + BMP	14	1.14%
<b>Total</b>	<b>1,251</b>	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,293	24.34%
CEB Coal	3,572	37.92%
CEB Thermal Oil	1,674	17.77%
IPP Thermal	983	10.44%
SPP Wind	259	2.75%
CEB Wind	268	2.85%
Mini Hydro (Telemetered)	210	2.23%
IPP Solar (Bulk-10MW)	74	0.79%
IPP Waste heat	87	0.92%
<b>Total</b>	<b>9,419</b>	

### 3. CEB owned Thermal Plant Dispatch

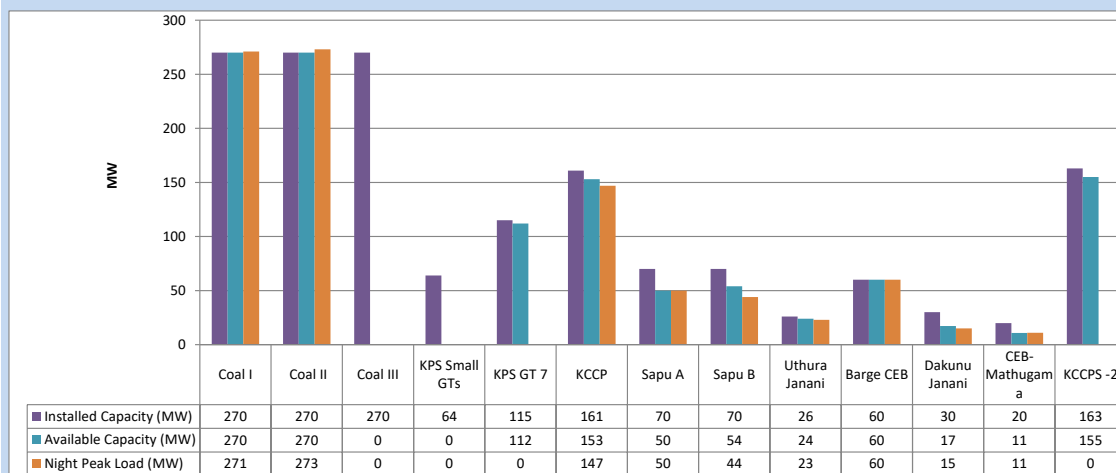
August 30, 2023



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

August 31, 2023

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

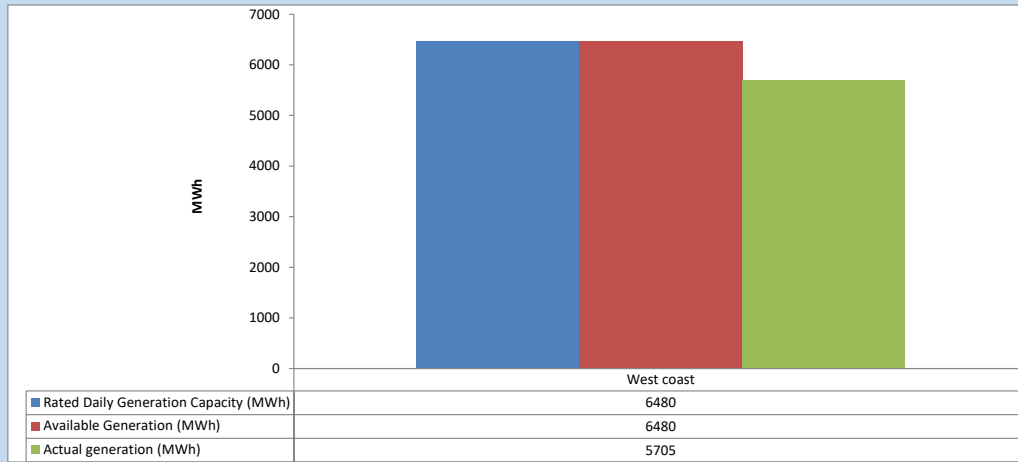


Plant availability is recorded at 6.00 am on

August 31, 2023

### 5. IPP owned Thermal Plant Dispatch

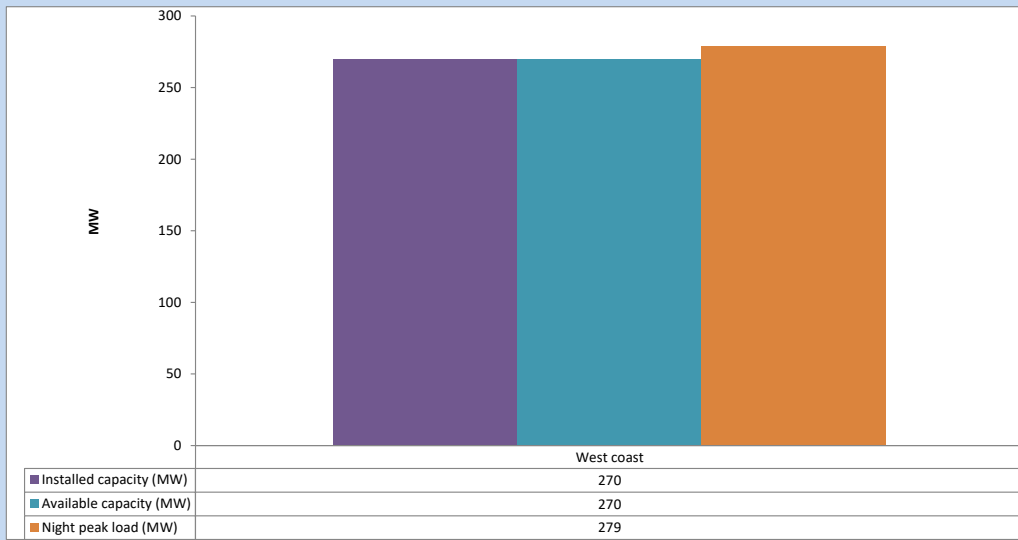
August 30, 2023



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

August 31, 2023

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

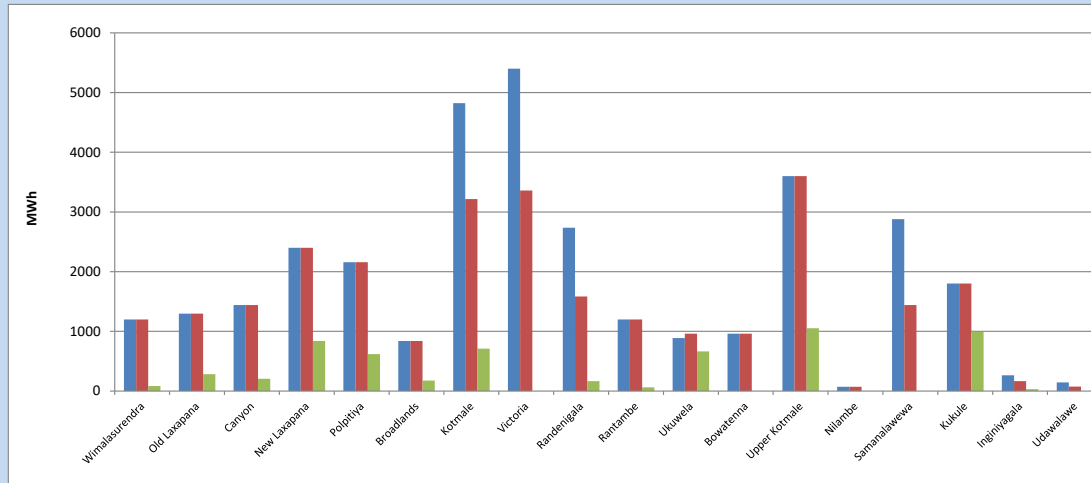


Plant availability is recorded at 6.00 am on

August 31, 2023

### 7. Major Hydro Plant Dispatch

August 30, 2023

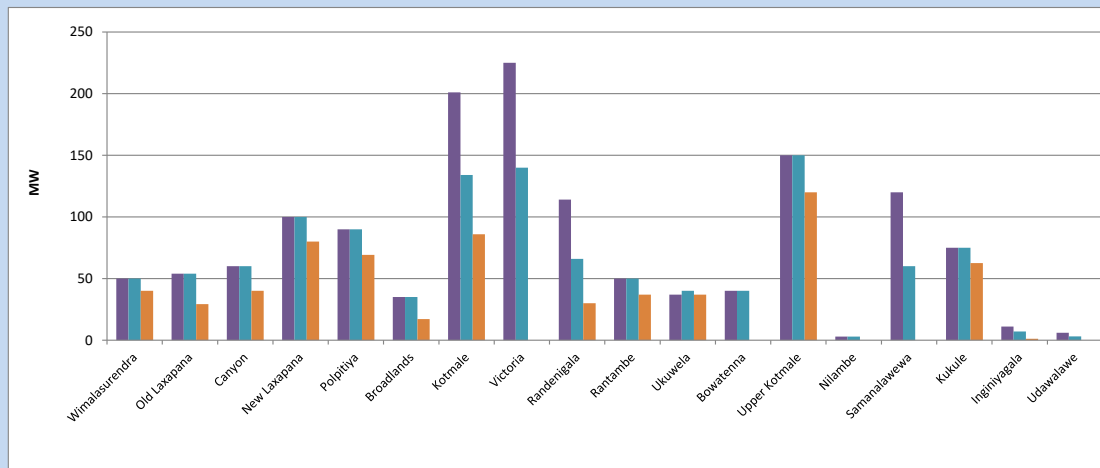


Available Generation is estimated based on plant availability at 6.00am on August 31, 2023  
Broadlands power plant is operating in the Commissioning Stage

August 31, 2023

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

August 30, 2023



Plant availability is recorded at 6.00 am on August 31, 2023  
Broadlands power plant is operating in the Commissioning Stage

August 31, 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	40	83
Old Laxapana Canyon	54	54	29	282
New Laxapana	60	60	40	207
Polpitiya	100	100	80	838
Broadlands	90	90	69	620
Kotmale	35	35	17	177
Kotmale	201	134	86	710
Victoria	225	140	0	0
Randenigala	114	66	30	167
Rantambe	50	50	37	63
Ukuwela	37	40	37	665
Bowatenna	40	40	0	0
Upper Kotmale	150	150	120	1,053
Nilambe	3	3	0	0
Samanalawewa	120	60	0	0
Kukule	75	75	63	990
Inginiyagala	11	7	1	32
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	6,471
Puttalam Coal II	270	270	273	6,520
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	0	0	0
KPS GT 7	115	112	0	0
KCCP	161	153	147	3,600
Sapugaskanda A	70	50	50	884
Sapugaskanda B	70	54	44	1,114
Uthura Janani	26	24	23	181
Barge CEB	60	60	60	1,074
CEB-Hambantota	30	17	15	110
CEB-Mathugama	20	11	11	74
ACE Matara	24	24	24	168
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	279	5,705
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
<b>Total</b>	<b>3,483</b>	<b>2,627</b>	<b>1,974</b>	<b>35,133</b>

Plant availability is the availability recorded at 6 am on

August 31, 2023

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

August 30, 2023

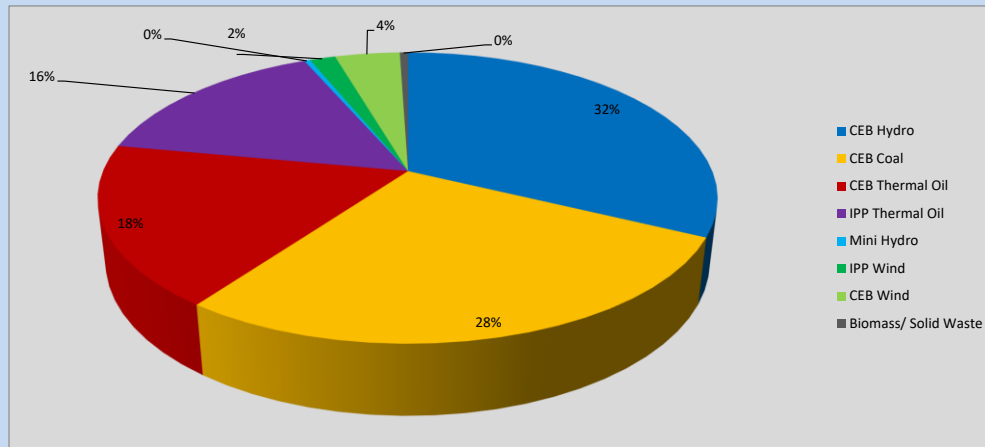


Table 06

CEB Hydro	627	MW
CEB Coal	544	MW
CEB Thermal Oil	350	MW
IPP Thermal Oil	303	MW
Mini Hydro (Telemetered)	7	MW
IPP Wind	31.2	MW
CEB Wind	78.9	MW
Biomass/ Solid Waste	10	MW

### Recorded Peak Demand Data

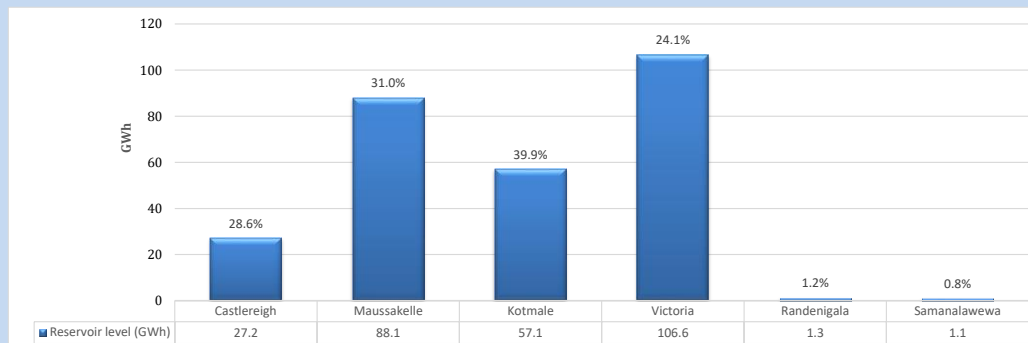
Table 07

Night Peak*	1,952	MW
Day Peak Maximum Demand	1,424	MW
Day Peak Minimum Demand	1,280	MW
Off Peak Minimum Demand	1,212	MW

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

### Reservoir Levels -

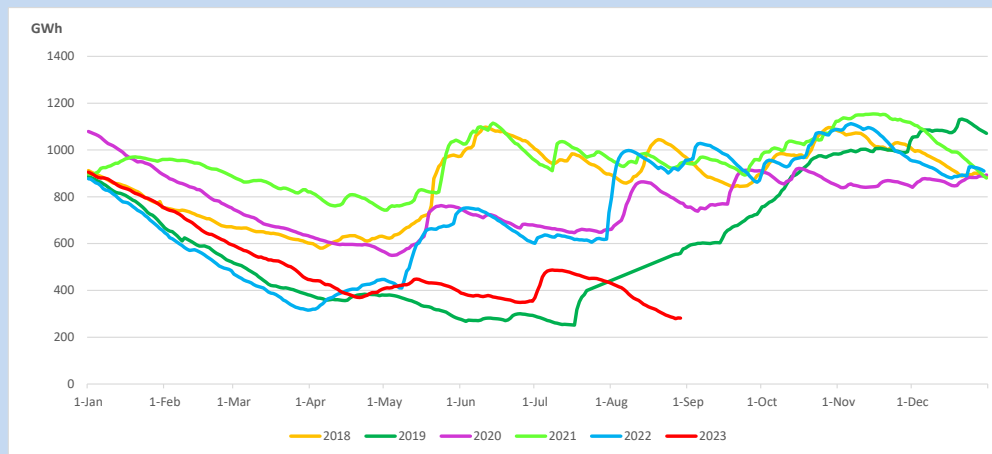
as at 06.00 Hr on August 31, 2023



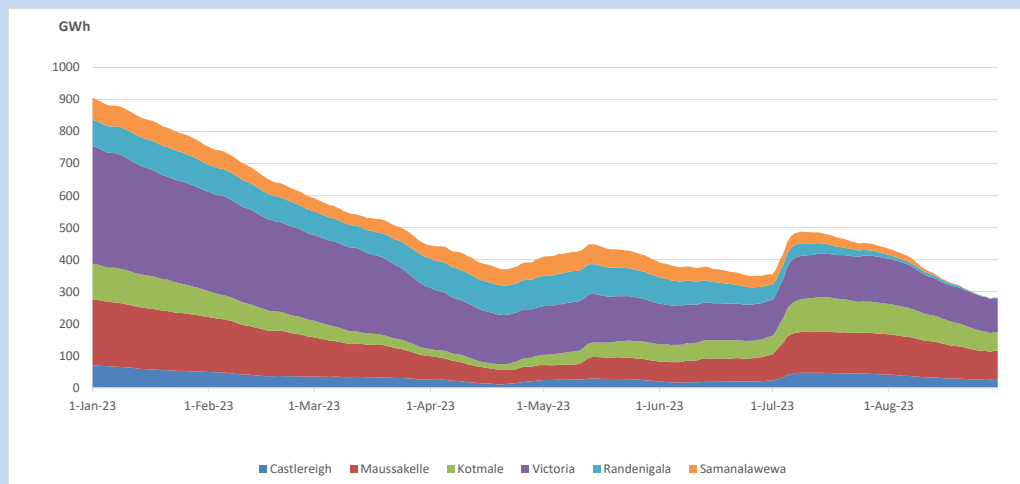
Total Reservoir Level  
% of Total capacity

281.4 GWh  
23.2%

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

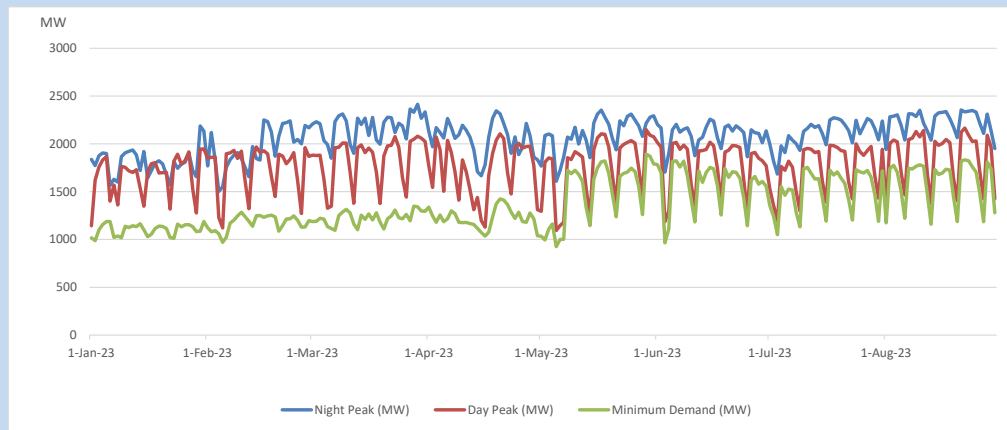


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





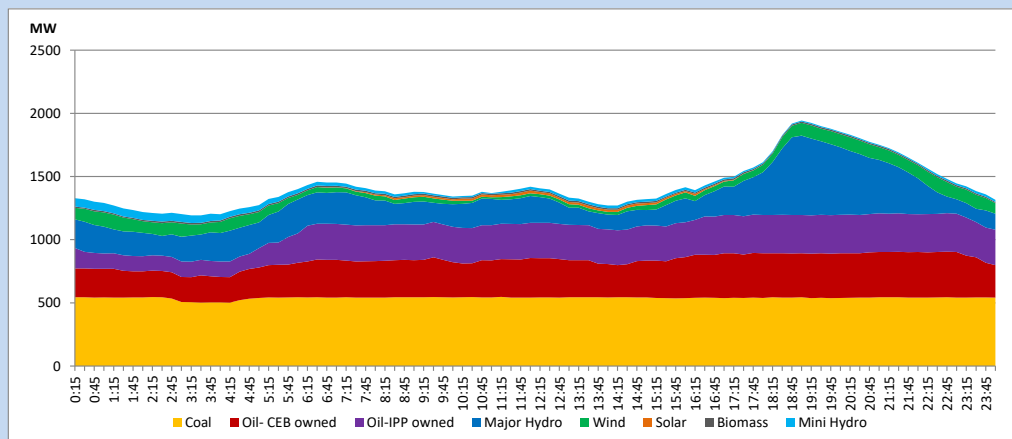
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

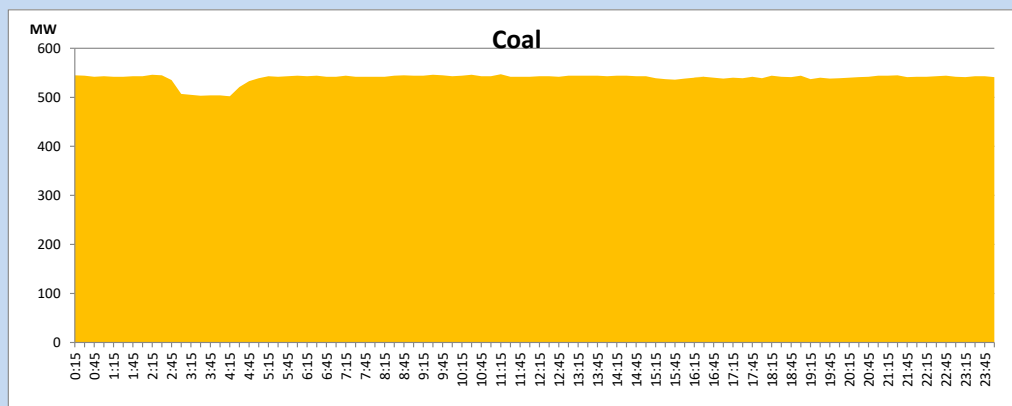
August 30, 2023



Solar and wind data is based on Telemetered Power Stations only

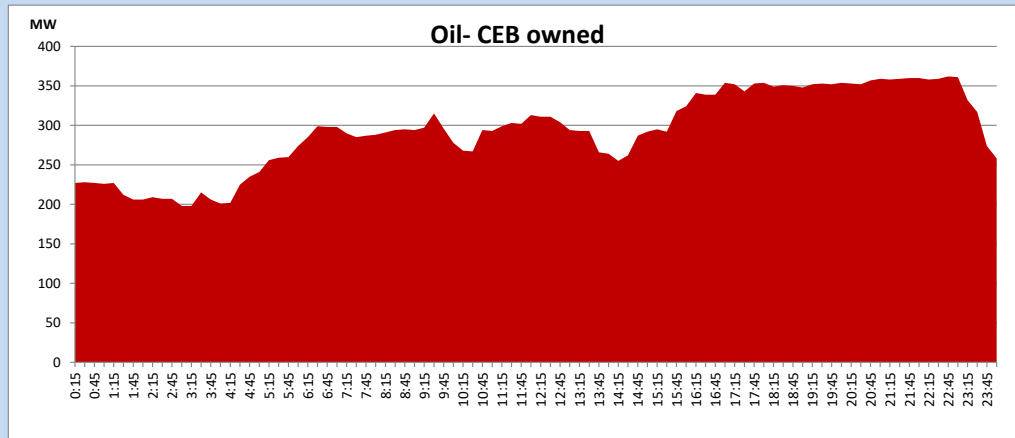
### Coal Generation during

August 30, 2023



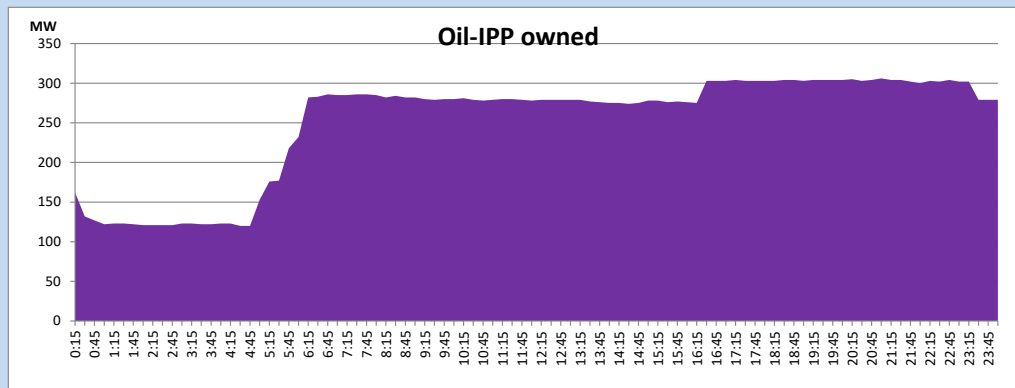
CEB Oil Plant Generation during

August 30, 2023



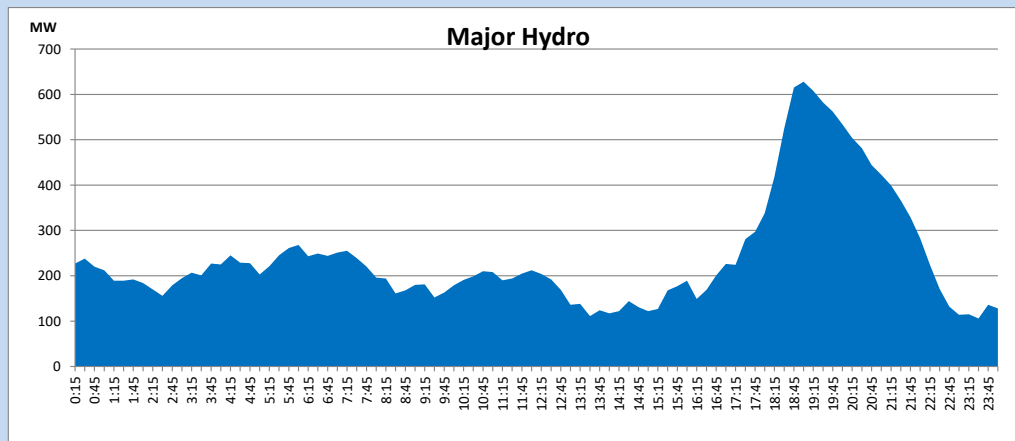
IPP Oil Plant Generation during

August 30, 2023



Major Hydro Generation during

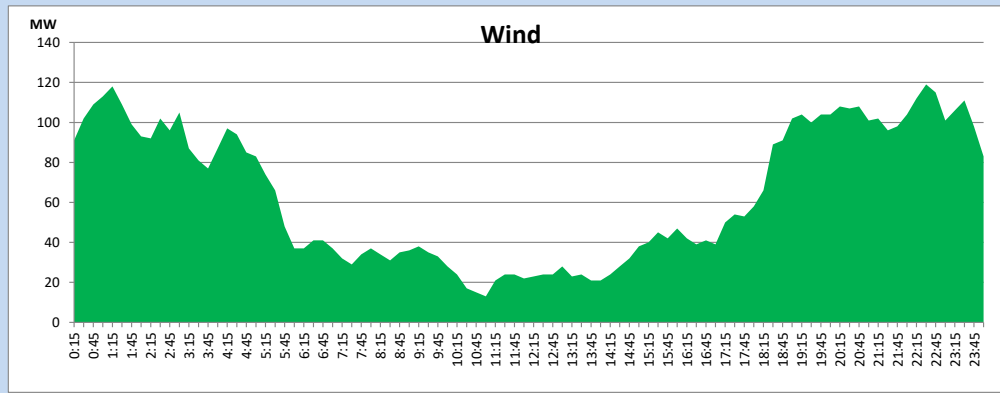
August 30, 2023



## Wind Generation during

August 30, 2023

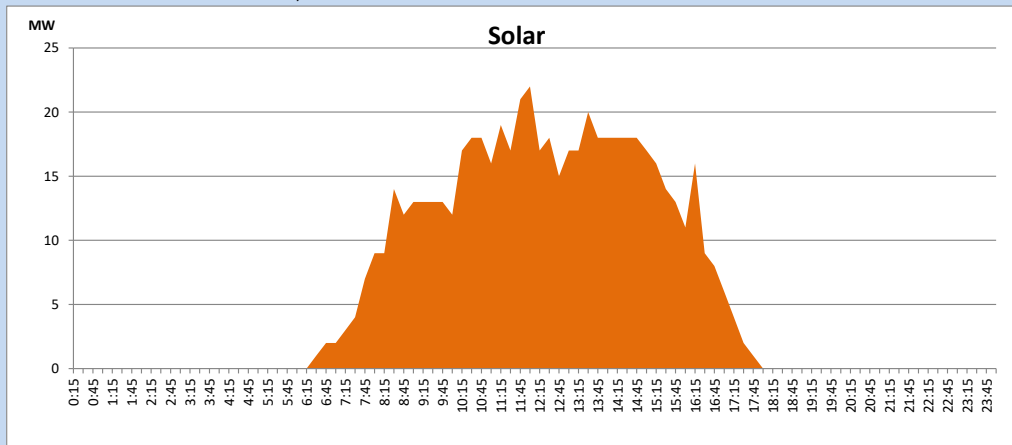
Based on Telemetered Power Stations only



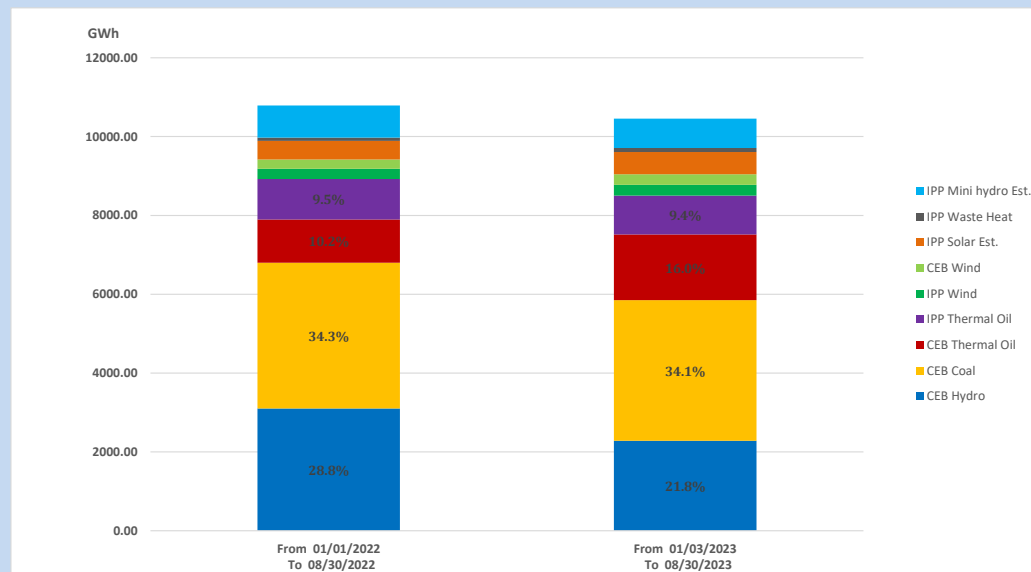
## Solar Generation during

August 30, 2023

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
From 01/01/2022 To 08/30/2022  
From 01/01/2023 To 08/30/2023

10788 GWh  
10455 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

Major Incidents reported during the day

August 30, 2023

- 1) Samanalawewa full load generation restricted, in order to comply with the operation constraints initiated by propagation of air bubbles at reservoir intake, which would further course for the possible formation of vortex at the same place, due to the severe depletion of Samanalawewa reservoir storage.
- 2) Kappalturai - N/Anuradapura cct tripped and A/R from both ends at 17:47hrs due to the operation of distance protection.