

# Generation and Reservoirs Statistics

August 12, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

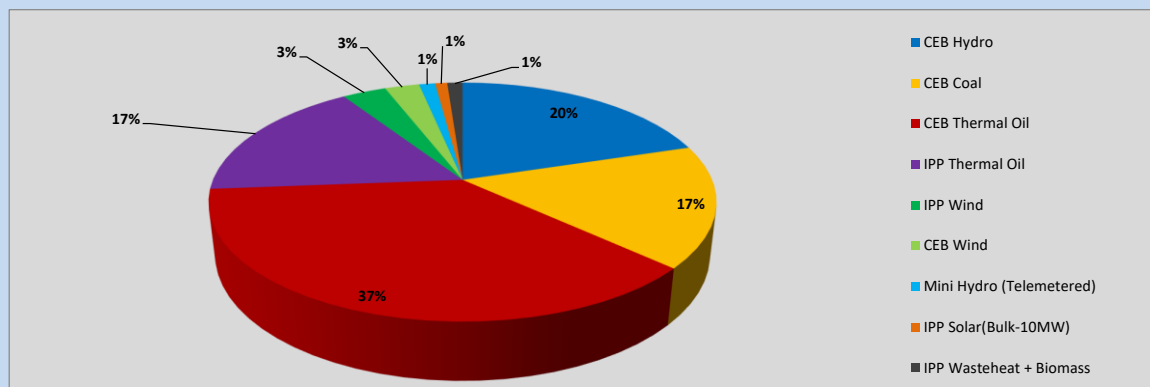


Table 01

CEB Hydro	7,940	MWh
CEB Coal	6,467	MWh
CEB Thermal Oil	14,524	MWh
IPP Thermal Oil	6,652	MWh
IPP Wind	1,308	MWh
CEB Wind	1,028	MWh
Mini Hydro (Telemetered)	480	MWh
IPP Solar (Bulk)	362	MWh
IPP Waste heat + Biomass	458	MWh
<b>Total Generation (Excluding estimated figures)</b>	<b>39,219</b>	<b>MWh</b>
* Estimated unserved energy	0	MWh
* Estimated Mini Hydro (Non telemetered)	3290	MWh
* Estimated IPP Solar PV (Bulk 1-10MW)	304	MWh
* Estimated Solar Roof Top PV	1650	MWh
<b>Total Generation (Including estimated figures)</b>	<b>44,463</b>	<b>MWh</b>

\* Estimated figures of CEB generation report

## 2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 02 - Current Month

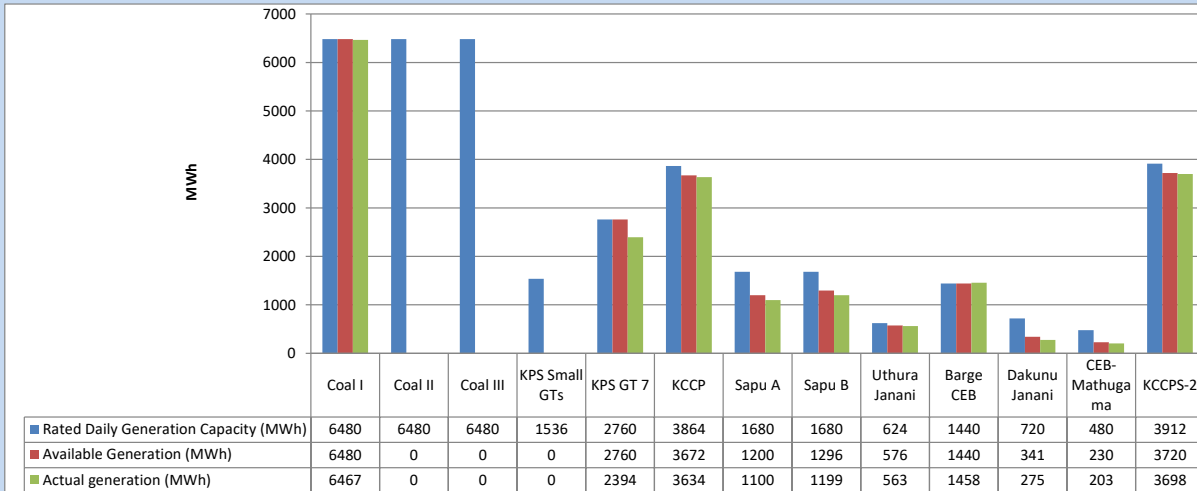
Category	Dispatch (GWh)	
CEB Hydro	115	22.90%
CEB Coal	111	22.17%
CEB Thermal Oil	153	30.46%
IPP Thermal	74	14.80%
SPP Wind	17	3.31%
CEB Wind	17	3.32%
Mini Hydro (Telemetered)	4	0.88%
IPP Solar (Bulk-10MW)	4	0.87%
IPP Waste heat + BMP	6	1.29%
<b>Total</b>	<b>501</b>	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,161	24.93%
CEB Coal	3,361	38.77%
CEB Thermal Oil	1,456	16.80%
IPP Thermal	878	10.13%
SPP Wind	227	2.61%
CEB Wind	233	2.69%
Mini Hydro (Telemetered)	206	2.37%
IPP Solar (Bulk-10MW)	68	0.78%
IPP Waste heat	79	0.91%
<b>Total</b>	<b>8,669</b>	

### 3. CEB owned Thermal Plant Dispatch

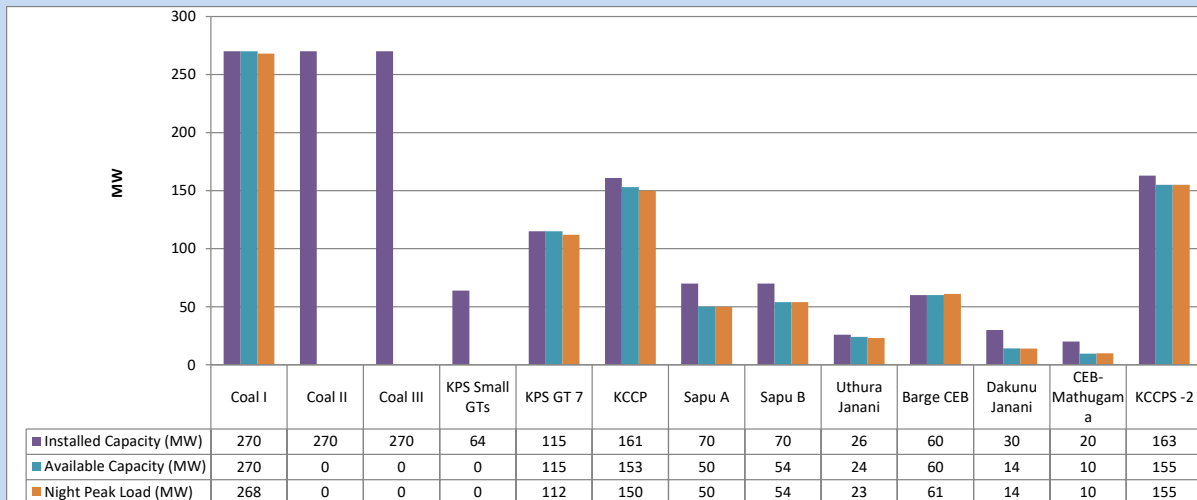
August 12, 2023



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

August 13, 2023

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

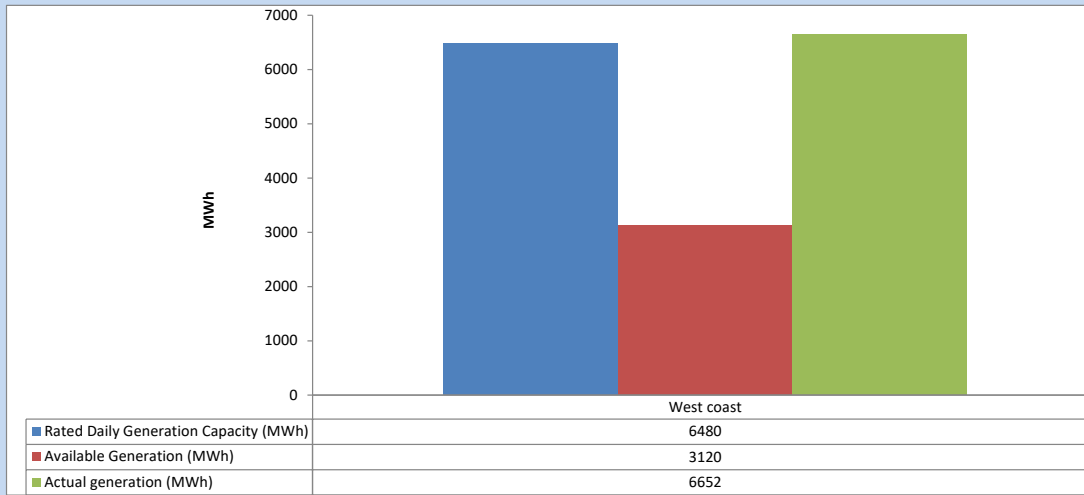


Plant availability is recorded at 6.00 am on

August 13, 2023

## 5. IPP owned Thermal Plant Dispatch

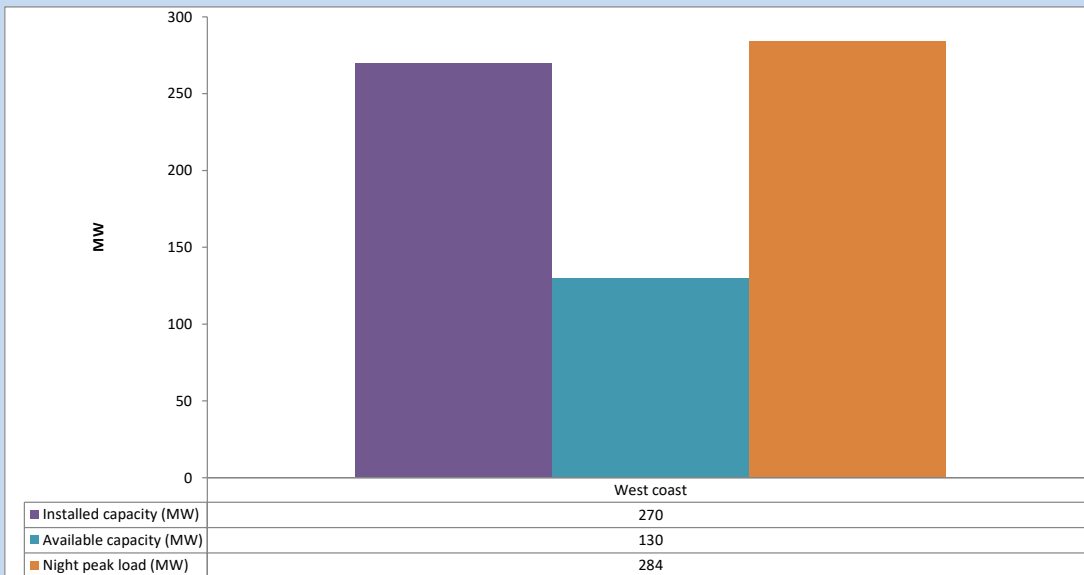
August 12, 2023



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

August 13, 2023

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

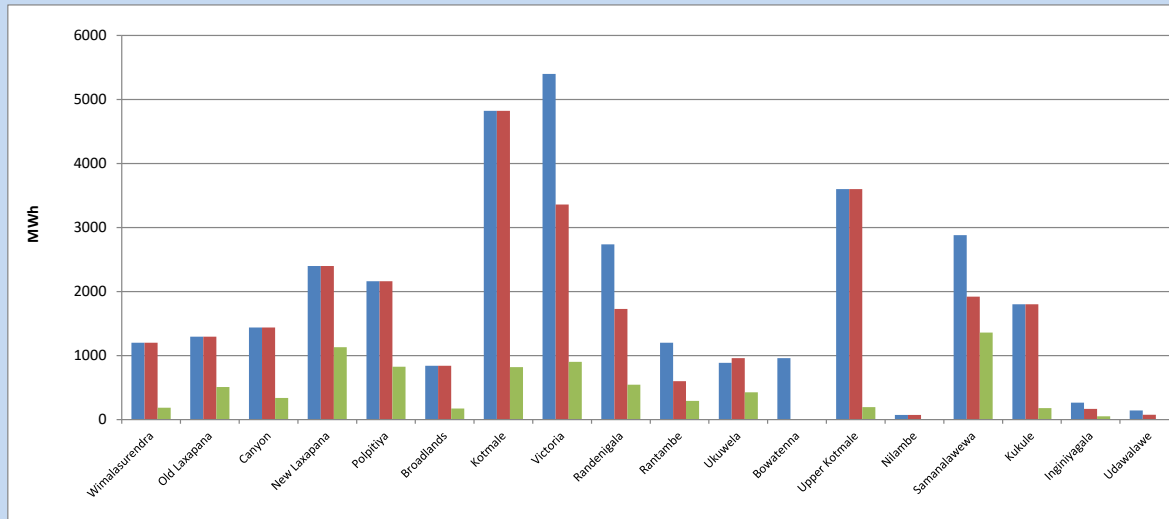


Plant availability is recorded at 6.00 am on

August 13, 2023

## 7. Major Hydro Plant Dispatch

August 12, 2023

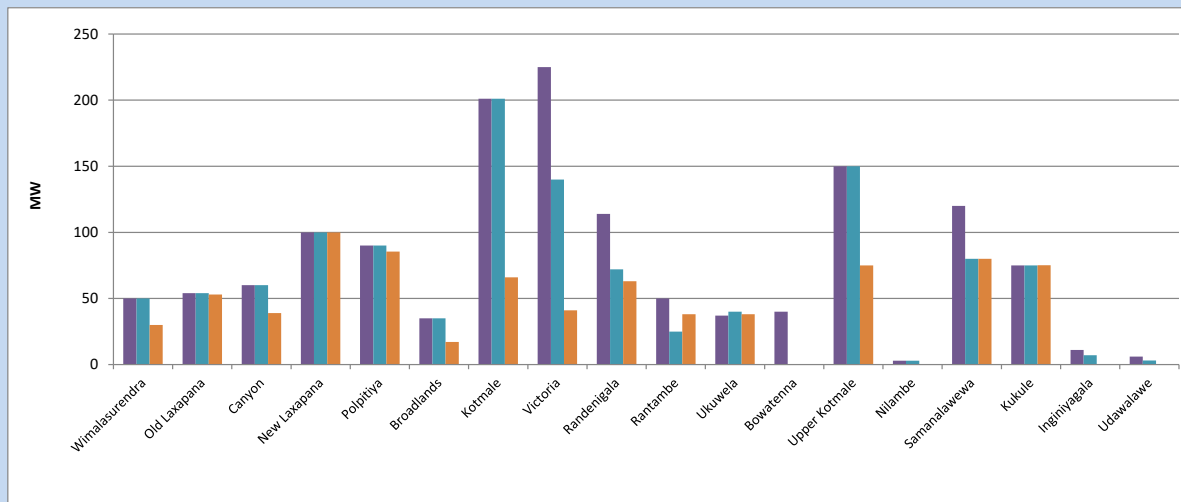


Available Generation is estimated based on plant availability at 6.00am on August 13, 2023  
Broadlands power plant is operating in the Commissioning Stage

August 13, 2023

## 8. Major Hydro Plant Loading at Night Peak

August 12, 2023



Plant availability is recorded at 6.00 am on August 13, 2023  
Broadlands power plant is operating in the Commissioning Stage

August 13, 2023

## 9. Summary of Major Plant performance

**Table 04**

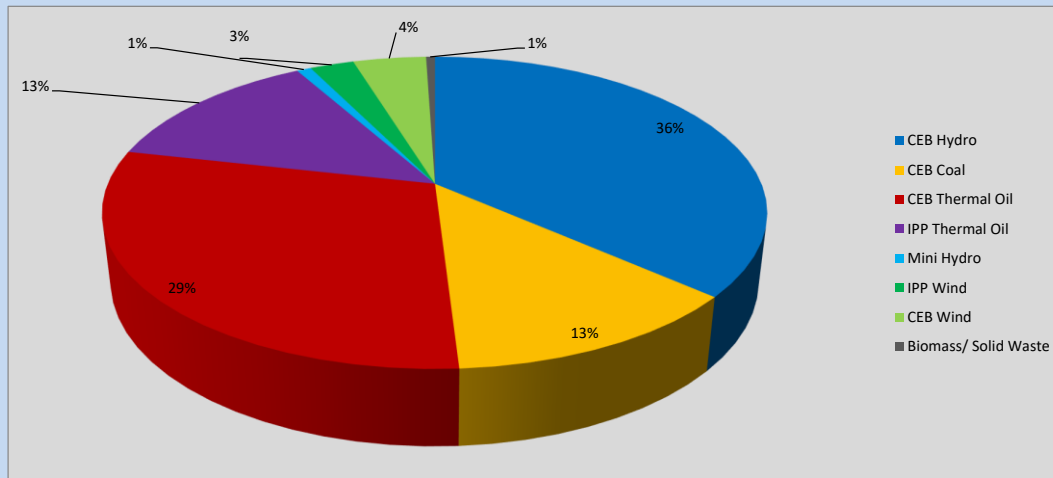
Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	186
Old Laxapana	54	54	53	508
Canyon	60	60	39	339
New Laxapana	100	100	100	1,131
Polpitiya	90	90	85	826
Broadlands	35	35	17	174
Kotmale	201	201	66	820
Victoria	225	140	41	903
Randenigala	114	72	63	544
Rantambe	50	25	38	293
Ukuwela	37	40	38	425
Bowatenna	40	0	0	0
Upper Kotmale	150	150	75	195
Nilambe	3	3	0	4
Samanalawewa	120	80	80	1,360
Kukule	75	75	75	180
Inginiyagala	11	7	0	52
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	268	6,467
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	0	0	0
KPS GT 7	115	115	112	2,394
KCCP	161	153	150	3,634
Sapugaskanda A	70	50	50	1,100
Sapugaskanda B	70	54	54	1,199
Uthura Janani	26	24	23	563
Barge CEB	60	60	61	1,458
CEB-Hambantota	30	14	14	275
CEB-Mathugama	20	10	10	203
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	155	3,698
West Coast	270	130	284	6,652
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
<b>Total</b>	<b>3,483</b>	<b>2,220</b>	<b>2,155</b>	<b>39,219</b>

Plant availability is the availability recorded at 6 am on

August 13, 2023

## 10. Contribution to the Night Peak in MW

August 12, 2023



**Table 05**

CEB Hydro	778	MW
CEB Coal	268	MW
CEB Thermal Oil	629	MW
IPP Thermal Oil	284	MW
Mini Hydro (Telemetered)	18	MW
IPP Wind	54.6	MW
CEB Wind	90.5	MW
Biomass/ Solid Waste	11	MW

### Recorded Peak Demand Data

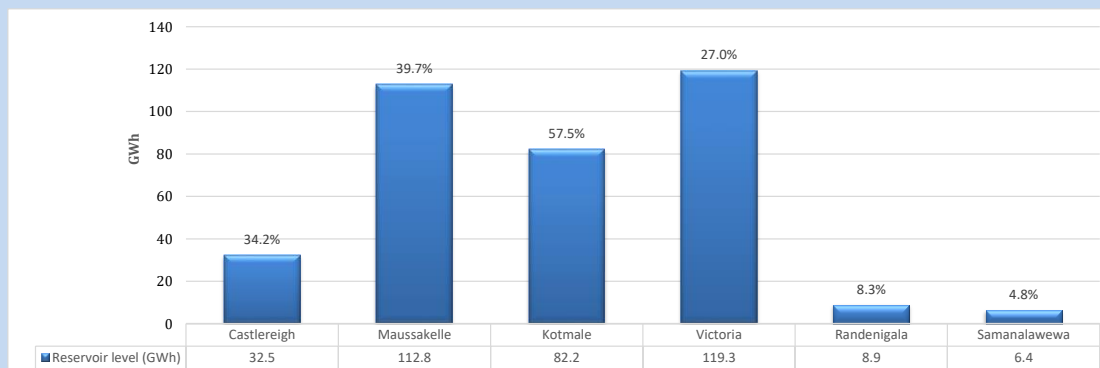
**Table 06**

Night Peak*	2,132	MW
Day Peak Maximum Demand	1,680	MW
Day Peak Minimum Demand	1,469	MW
Off Peak Minimum Demand	1,339	MW

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

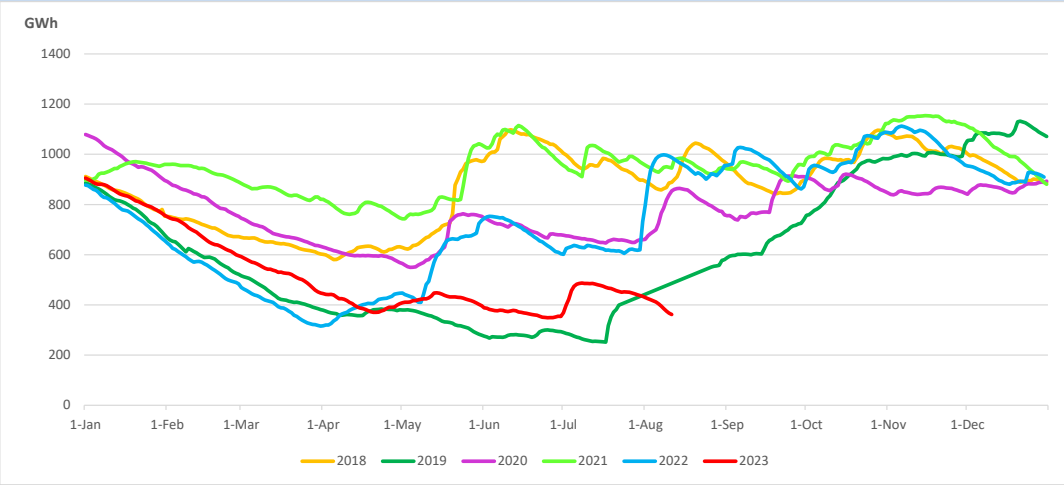
### Reservoir Levels -

as at 06.00 Hr on August 13, 2023

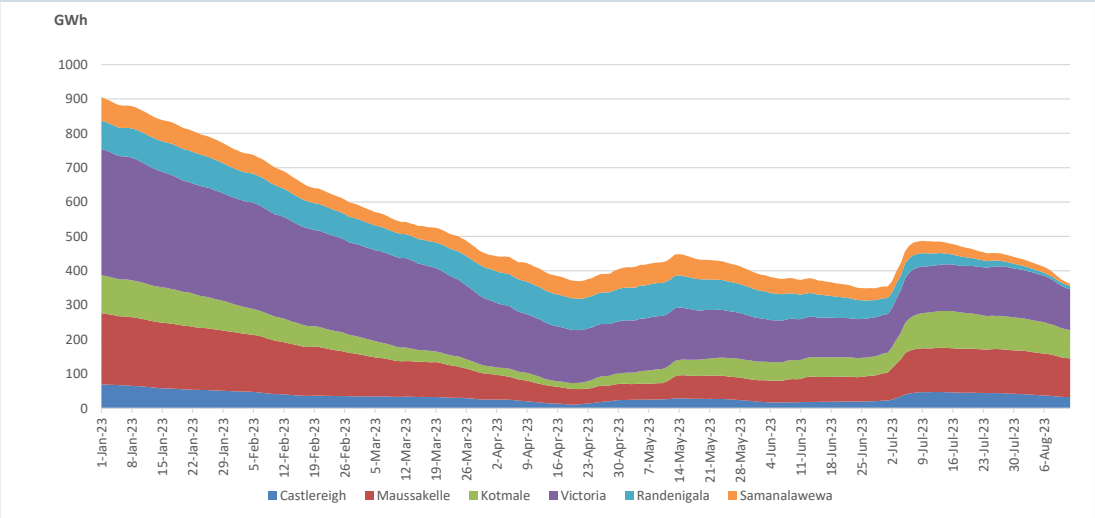


Total Reservoir Level 362.1 GWh  
% of Total capacity 30.1%

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

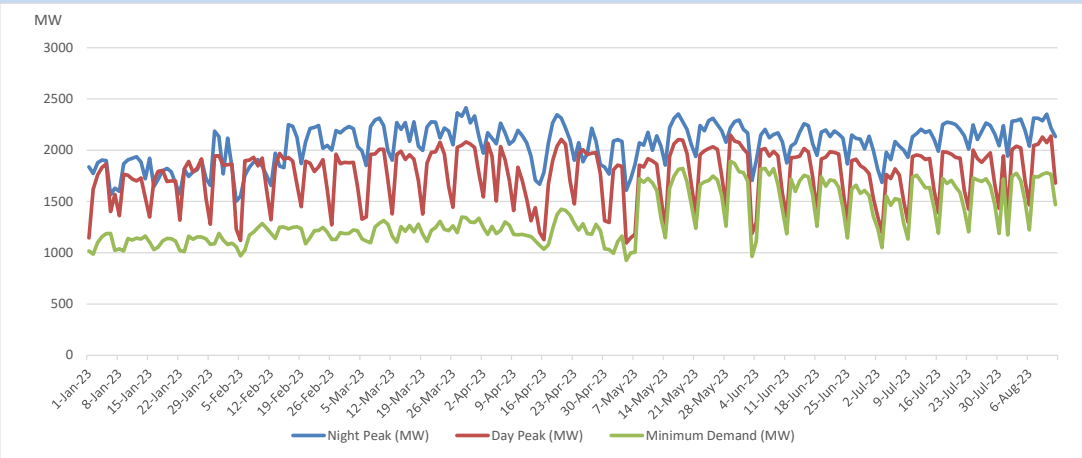


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





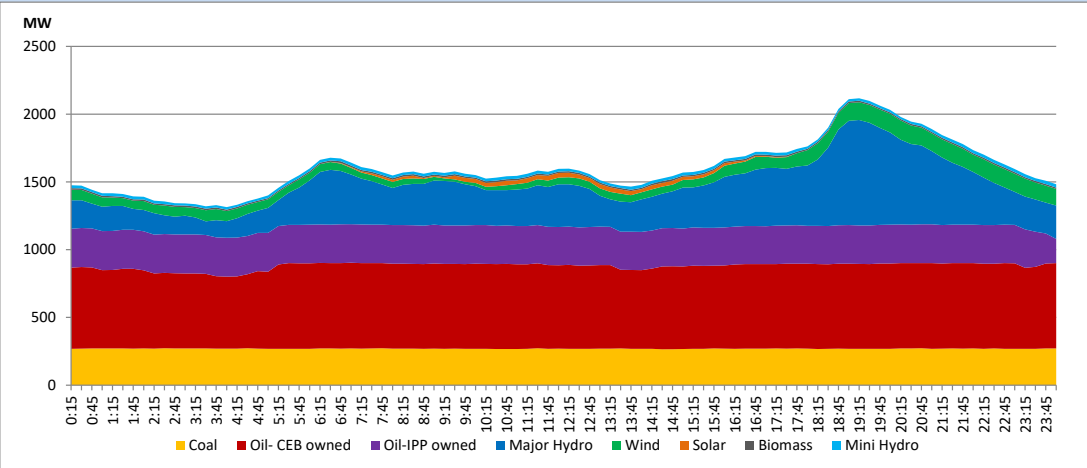
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

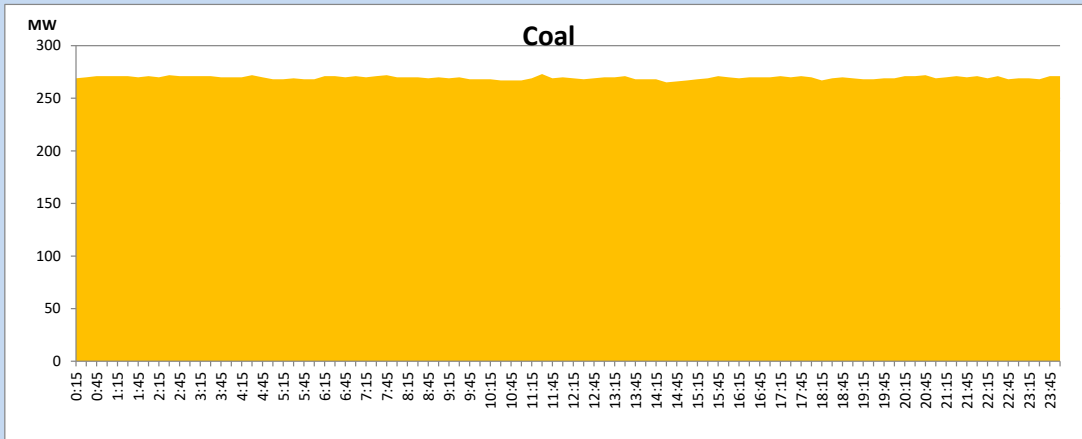
August 12, 2023



Solar and wind data is based on Telemetered Power Stations only

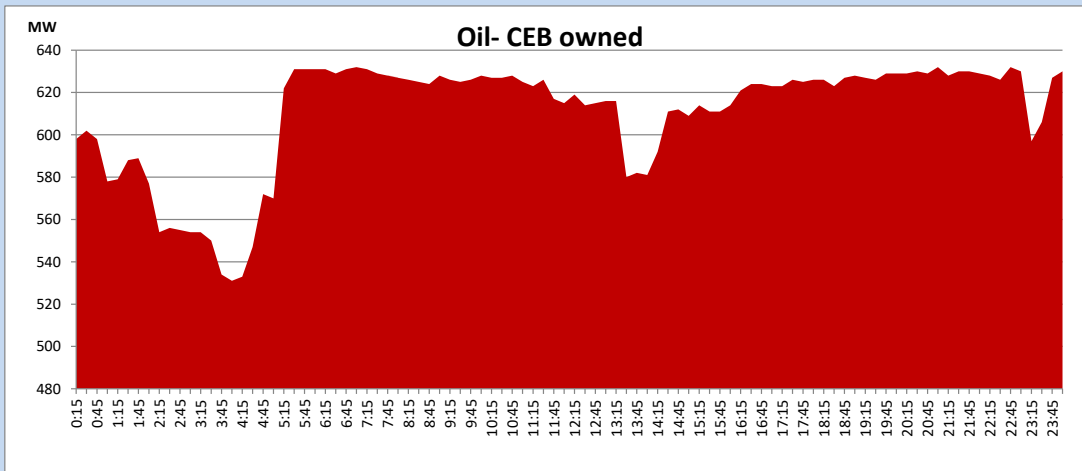
Coal Generation during

August 12, 2023



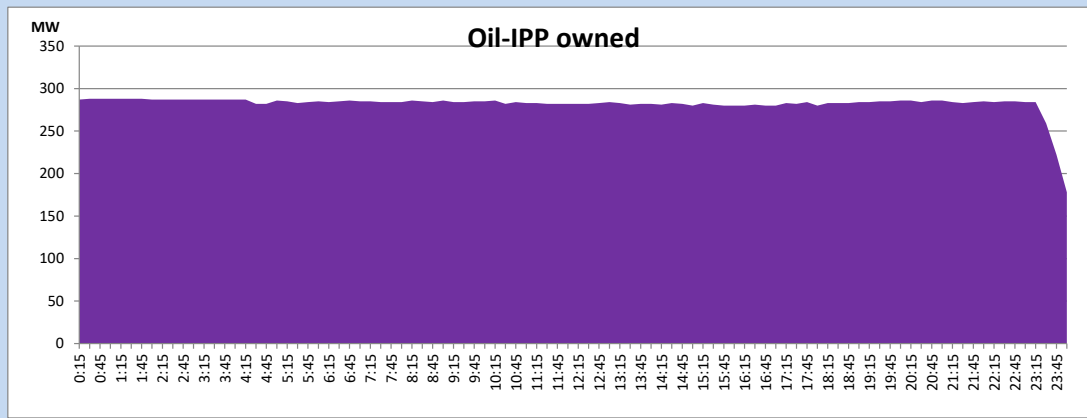
CEB Oil Plant Generation during

August 12, 2023



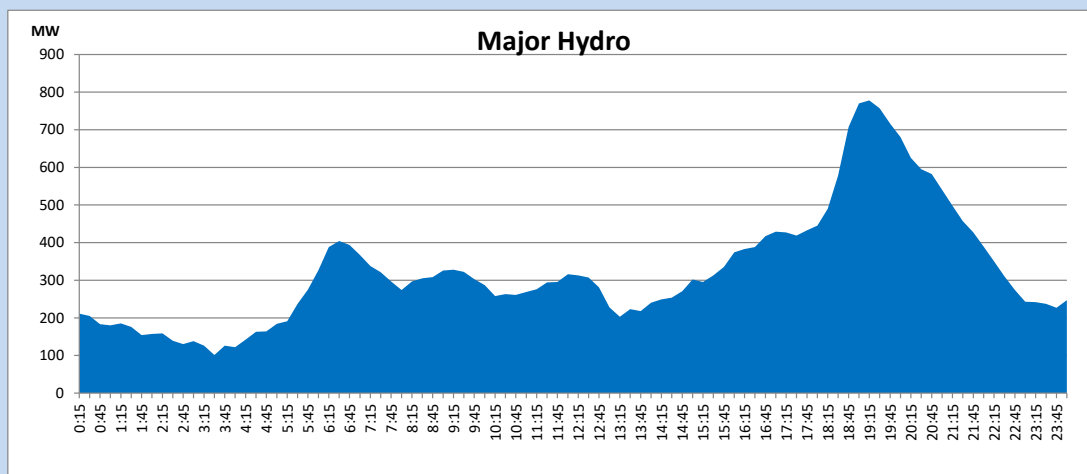
IPP Oil Plant Generation during

August 12, 2023



Major Hydro Generation during

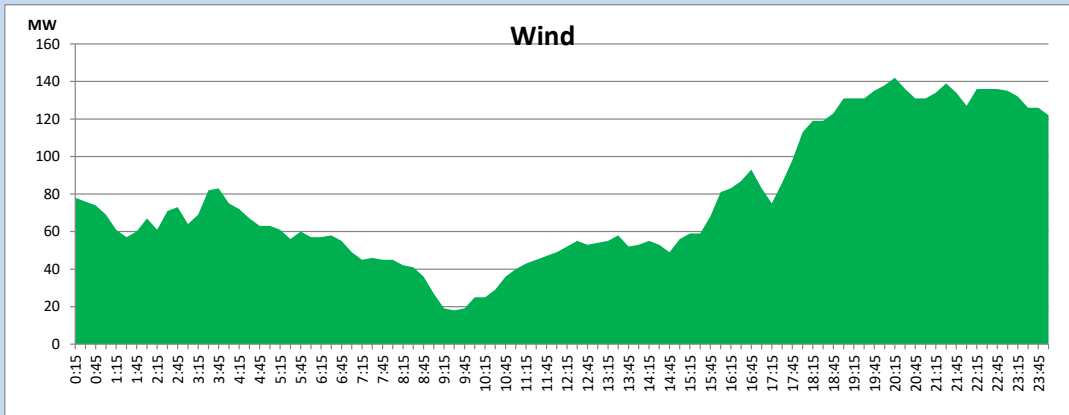
August 12, 2023



## Wind Generation during

August 12, 2023

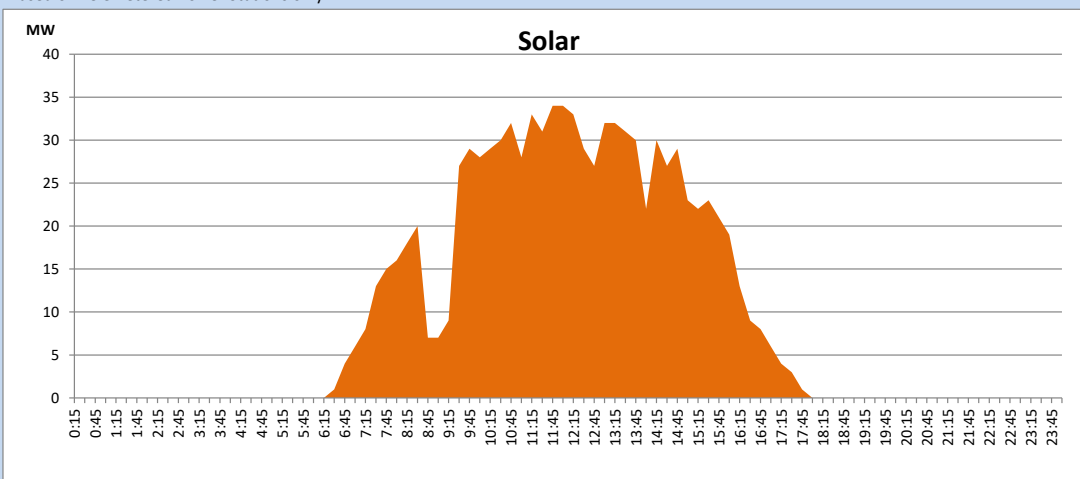
Based on Telemetered Power Stations only



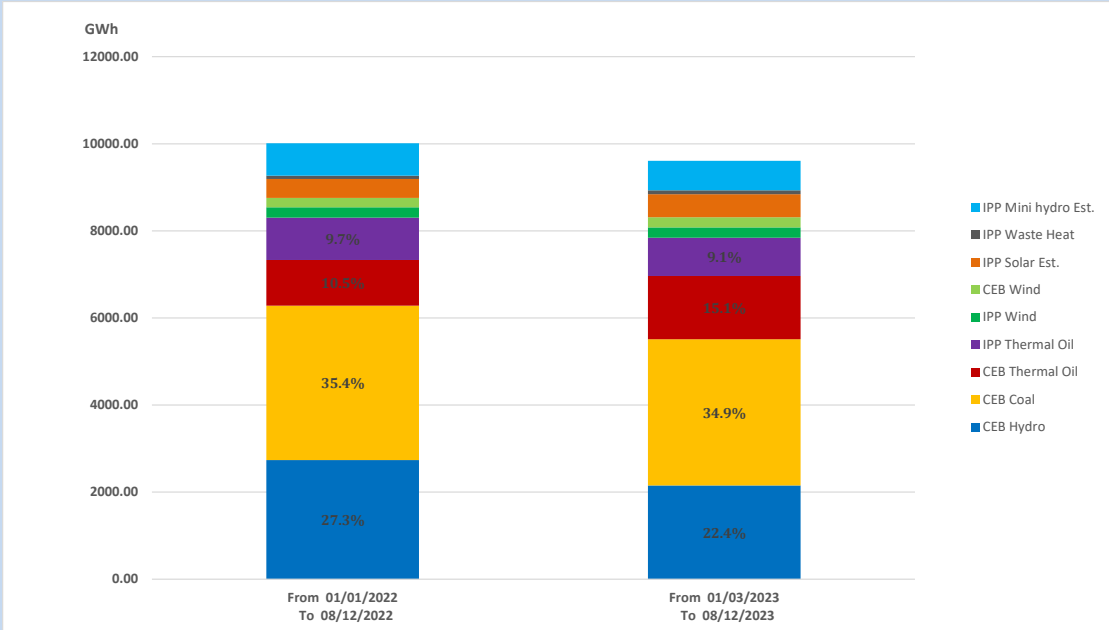
## Solar Generation during

August 12, 2023

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
 From 01/01/2022 To 08/12/2022  
 From 01/01/2023 To 08/12/2023

10011 GWh  
 9609 GWh

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

**Thermal Plant Fuel types**

Power Station	Primary Fuel
<b>CEB Thermal</b>	
<b>Sapugaskanda 1</b>	Heavy Fuel
<b>Sapugaskanda 2</b>	Heavy Fuel
<b>Kelanitissa Small Gas Turbines</b>	Auto Diesel
<b>GT 7 - Kelanitissa</b>	Auto Diesel
<b>Kelanitissa CCY</b>	Naphtha or Diesel
<b>Lakvijaya 1</b>	Coal
<b>Lakvijaya 2</b>	Coal
<b>Lakvijaya 3</b>	Coal
<b>Uthuru Janani</b>	Heavy Fuel
<b>Barge CEB</b>	Heavy Fuel
<b>KCCPS -2</b>	Auto Diesel

Power Station	Primary Fuel
<b>Private Thermal</b>	
<b>West Coast</b>	Auto Diesel / Heavy Fuel

**Major Incidents reported during the day**

August 12, 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.