

# Generation and Reservoirs Statistics

August 5, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

August 5, 2024

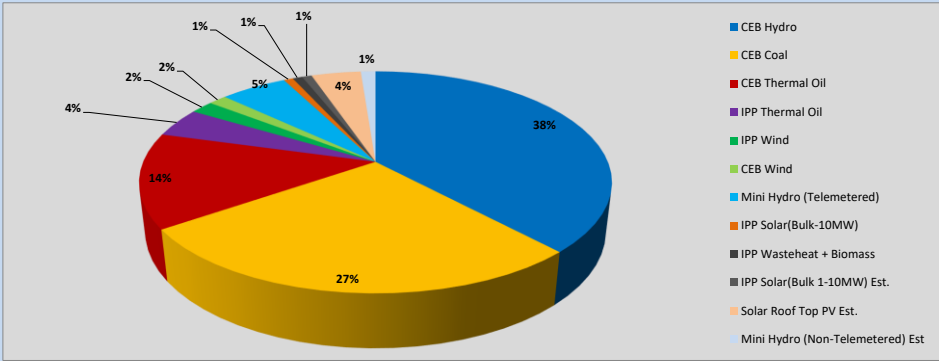


Table 01

	Generation (MWh)
CEB Hydro	17998
CEB Coal	13001
CEB Thermal Oil	6573
IPP Thermal Oil	2023
IPP Wind	893
CEB Wind	708
Mini Hydro (Telemetered)	2582
IPP Solar (Bulk)	359
IPP Waste heat + Biomass	379
<b>Total Generation (Excluding estimated figures)</b>	<b>44,516</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	569
* Estimated IPP Solar PV (Bulk 1-10MW)	375
* Estimated Solar Roof Top PV	1920
<b>Total Generation (Including estimated figures)</b>	<b>47,380</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	87	38.04%
CEB Coal	65	28.26%
CEB Thermal Oil	27	11.80%
IPP Thermal	3	1.52%
SPP Wind	6	2.64%
CEB Wind	7	2.96%
Mini Hydro *	19	8.38%
IPP Solar *	13	5.68%
IPP Waste heat + BMP	2	0.72%
<b>Total</b>	<b>229</b>	

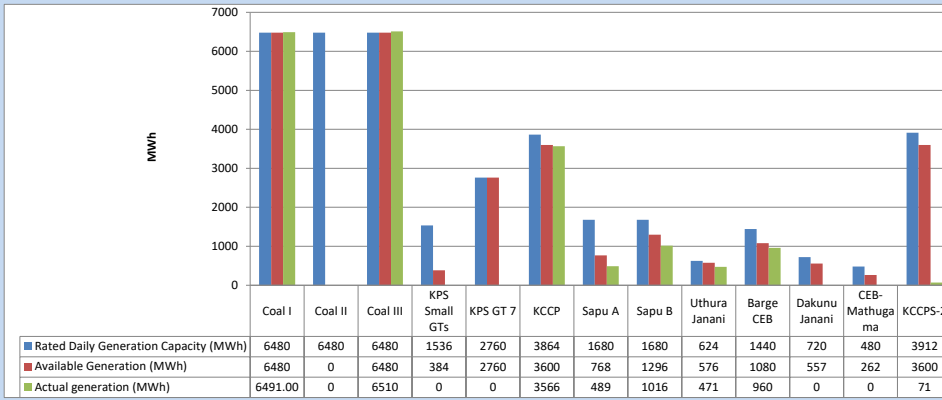
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,104	31.48%
CEB Coal	3,499	35.48%
CEB Thermal Oil	957	9.71%
IPP Thermal	479	4.86%
SPP Wind	219	2.22%
CEB Wind	223	2.26%
Mini Hydro *	684	6.93%
IPP Solar *	608	6.17%
IPP Waste heat	88	0.90%
<b>Total</b>	<b>9,861</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

August 5, 2024

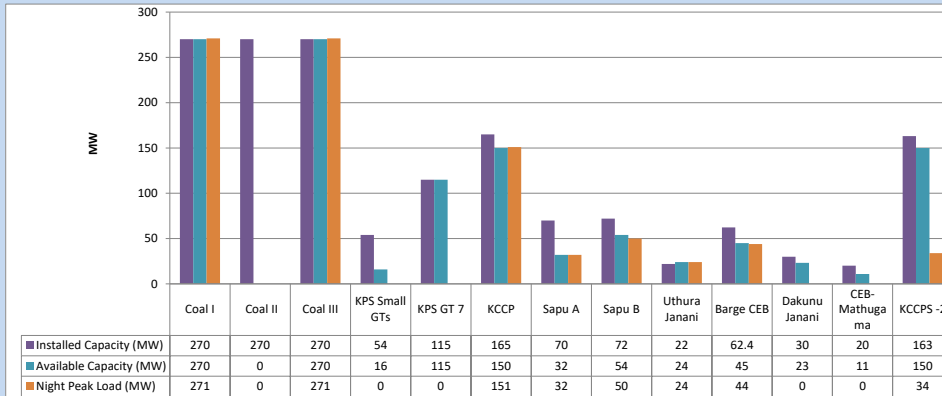


Available Generation is estimated based on plant availability at 6.00am on

August 6, 2024

### 1.3 CEB owned Thermal Plant Loading at the Night Peak

August 5, 2024

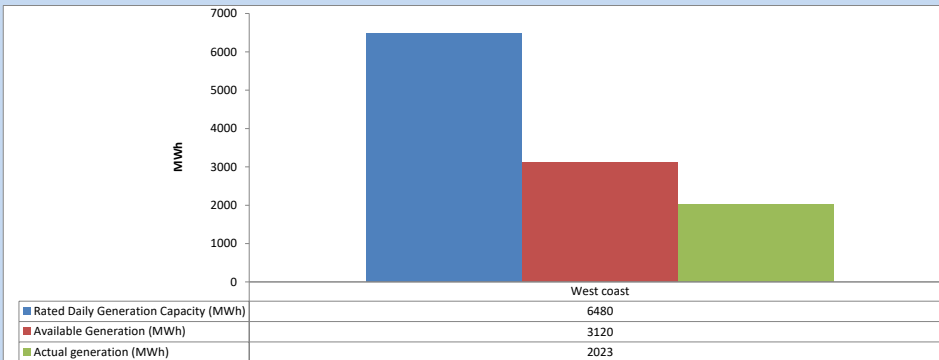


Plant availability is recorded at 6.00 am on

August 6, 2024

### 1.4 IPP owned Thermal Plant Dispatch

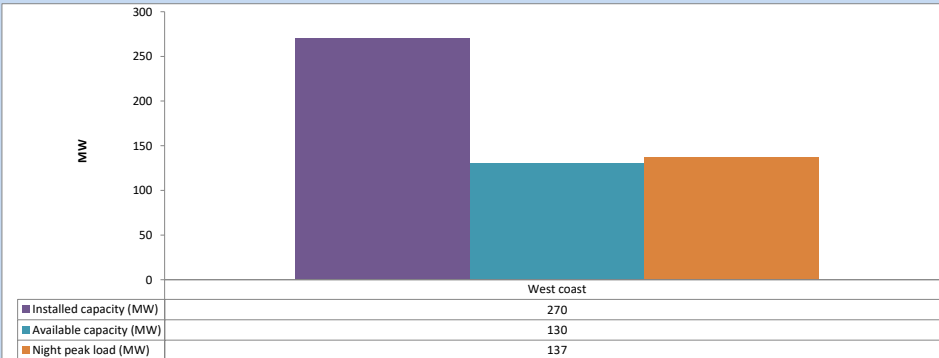
August 5, 2024



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

August 6, 2024

### 1.5 IPP owned Thermal Plant Loading at the Night Peak

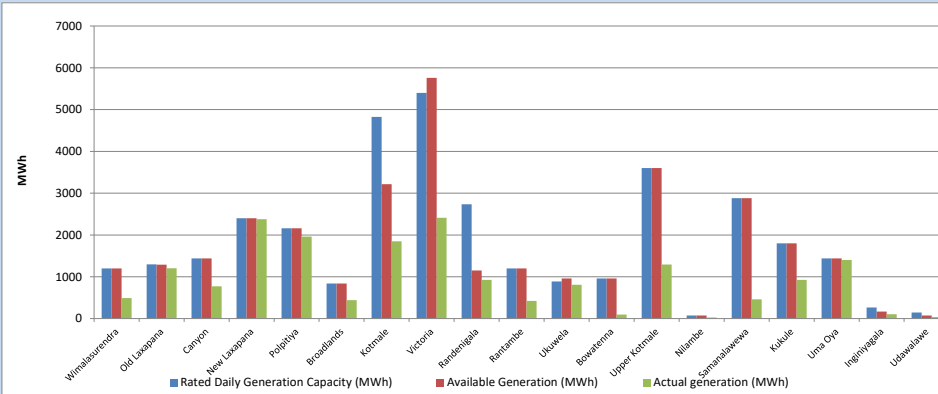


Plant availability is recorded at 6.00 am on

August 6, 2024

### 1.6 Major Hydro Plant Dispatch

August 5, 2024

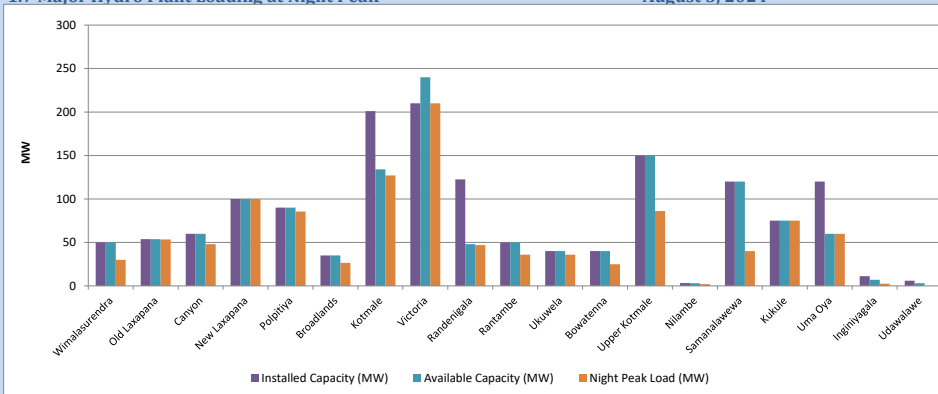


Available Generation is estimated based on plant availability at 6.00am on

August 6, 2024

### 1.7 Major Hydro Plant Loading at Night Peak

August 5, 2024



Plant availability is recorded at 6.00 am on

August 6, 2024

### 1.8 Summary of Major Plant performance

August 5, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	489
Old Laxapana	54	54	54	1,202
Canyon	60	60	48	773
New Laxapana	100	100	100	2,378
Polpitiya	90	90	86	1,960
Broadlands	35	35	27	441
Kotmale	201	134	127	1,850
Victoria	210	240	210	2,411
Randenigala	123	48	47	927
Rantambe	50	50	36	422
Ukuwela	40	40	36	809
Bowatenna	40	40	25	95
Upper Kotmale	150	150	86	1,294
Nilambe	3	3	2	23
Samanalawewa	120	120	40	459
Kukule	75	75	75	925
Uma Oya	120	60	60	1,402
Inginipigala	11	7	3	103
Udawalawe	6	3	0	37
Puttalam Coal I	270	270	271	6,491
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	271	6,510
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	151	3,566
Sapugaskanda A	70	32	32	489
Sapugaskanda B	72	54	50	1,016
Uthura Janani	22	24	24	471
Barge CEB	62	45	44	960
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	34	71
West Coast	270	130	137	2,023
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
<b>Total</b>	<b>3,594</b>	<b>2,649</b>	<b>2,398</b>	<b>44,518</b>

Note-

Plant availability is the availability recorded at 6 am on

August 6, 2024

1.9 Contribution to the Night Peak in MW

August 5, 2024

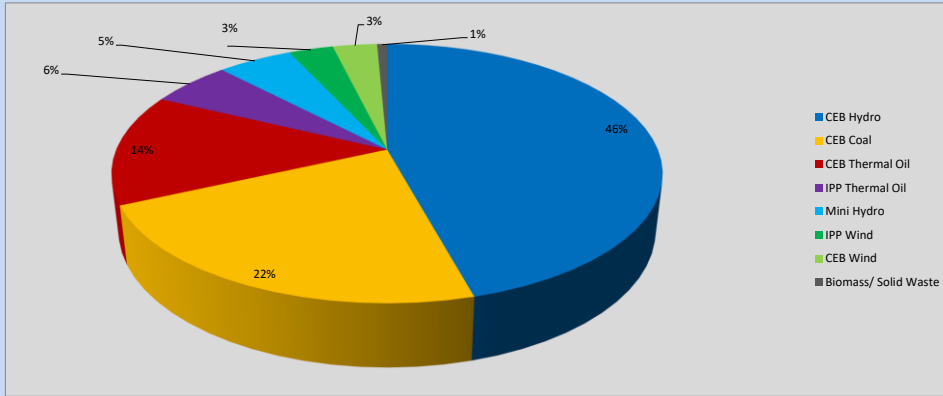


Table 05

CEB Hydro	1103	MW
CEB Coal	542	MW
CEB Thermal Oil	335	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	126	MW
IPP Wind	75.4	MW
CEB Wind	75	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

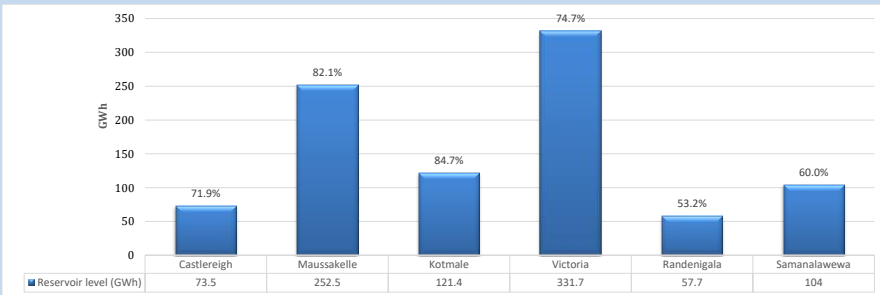
Table 06

Night Peak*	2,410	MW
Day Peak Maximum Demand	2,362	MW
Day Peak Minimum Demand	1,709	MW
Off Peak Minimum Demand	1,389	MW

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

1.10 Reservoir Levels -

as at 06.00 Hr on August 6, 2024



Total Reservoir Level 940.8 GWh  
% of Total capacity 73.6%

1.11 Day Ahead Planned Demand Vs Actual Demand (Excluding non telemetered data)

August 5, 2024

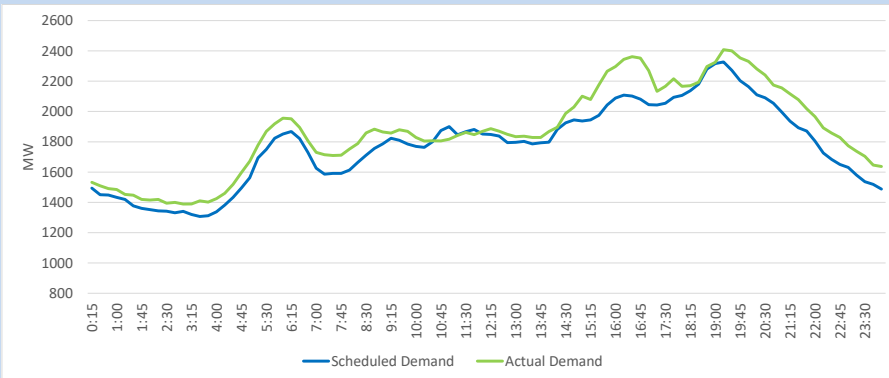
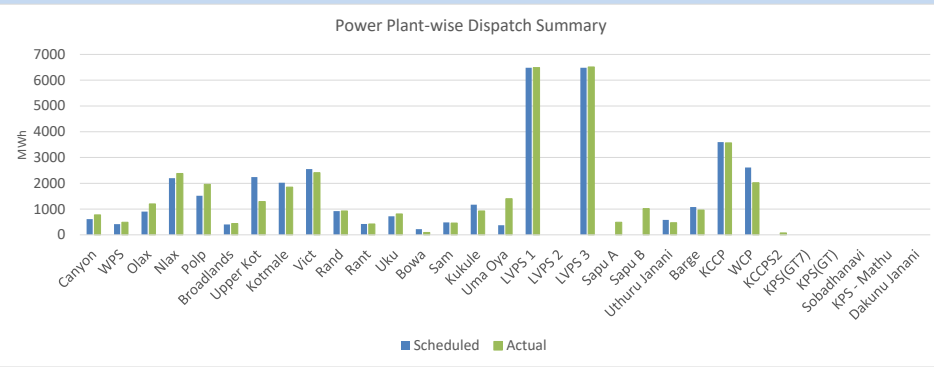


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	17,148	17,835	687
CEB Coal	12,960	13,001	41
CEB Thermal Oil	5,254	6,571	1317
IPP Thermal Oil	2,611	2,023	-588
NCRE (Telemetered)	2,591	4,927	2336
<b>Total</b>	<b>40,564</b>	<b>44,357</b>	<b>3793</b>

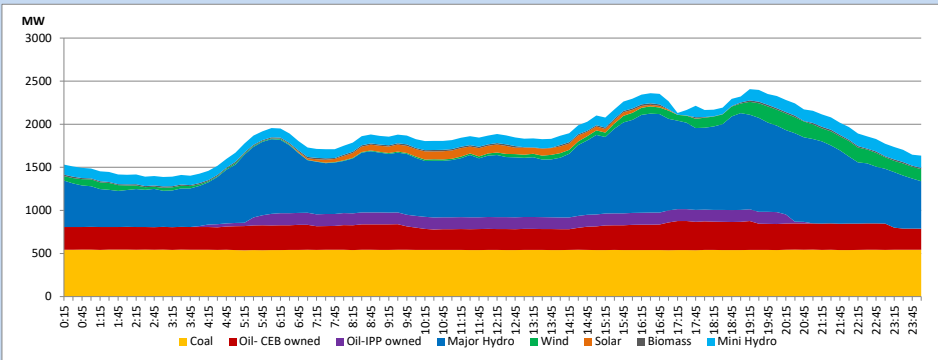
### 1.12 Power Plant-wise Dispatch Summary

August 5, 2024



### 1.13 Daily Load Curve

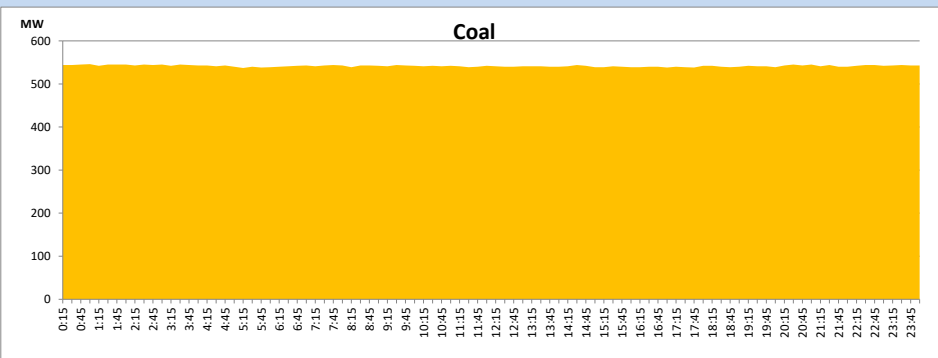
August 5, 2024



Solar and wind data is based on Telemetered Power Stations only

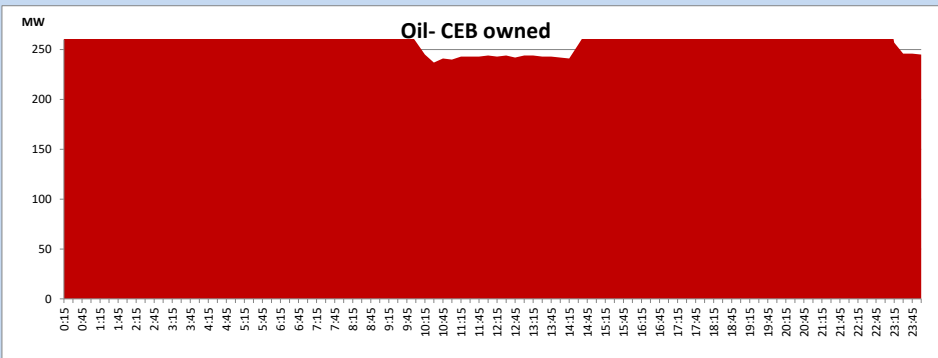
### Coal Generation during

August 5, 2024

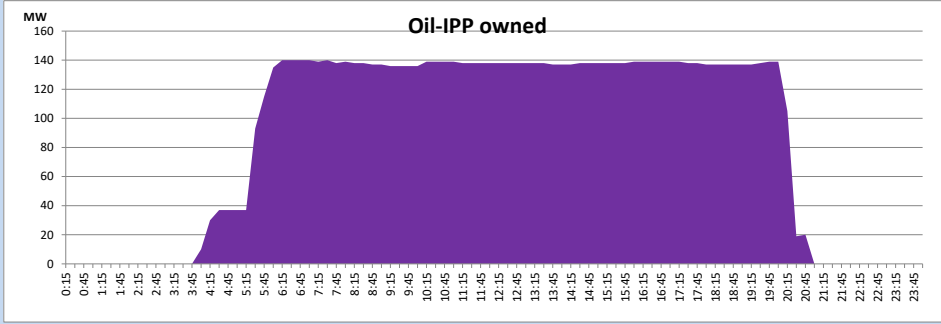


### CEB Oil Plant Generation during

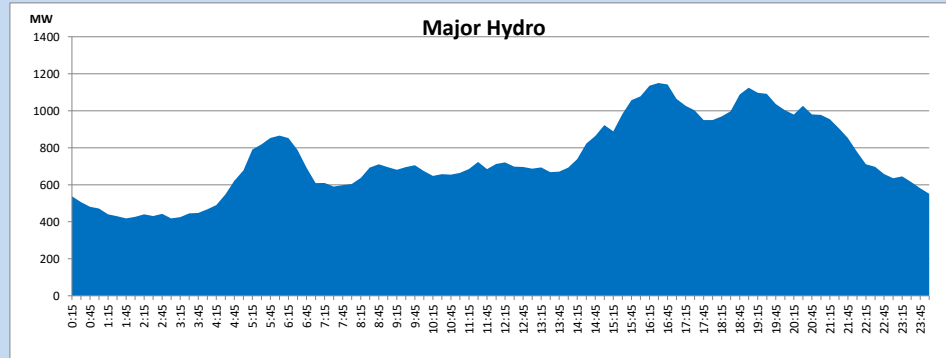
August 5, 2024



**IPP Oil Plant Generation during August 5, 2024**

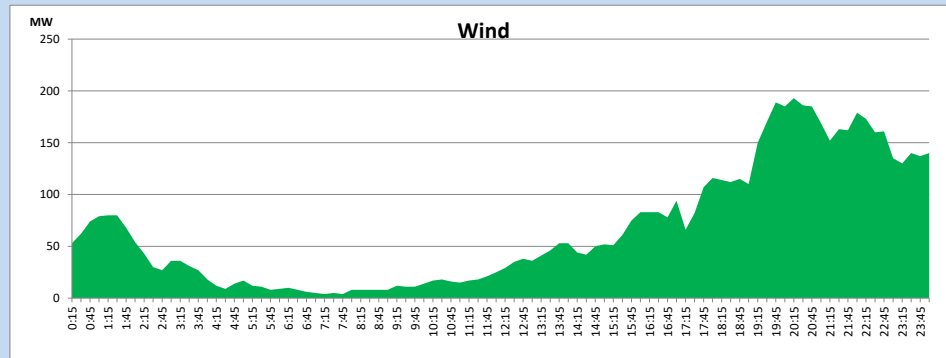


**Major Hydro Generation during August 5, 2024**



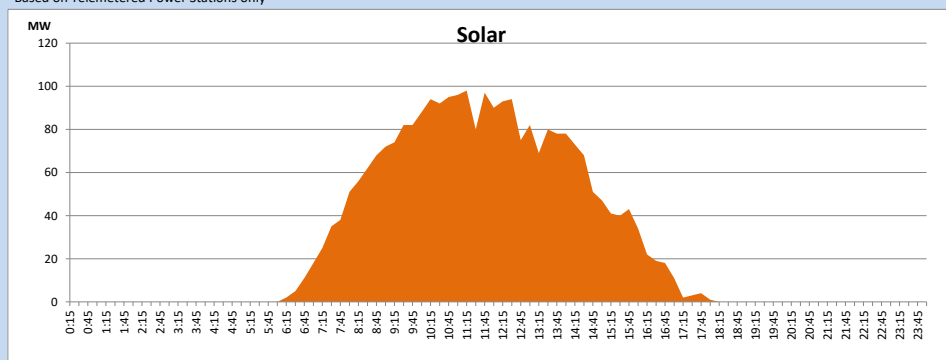
**Wind Generation during August 5, 2024**

Based on Telemetered Power Stations only



**Solar Generation during August 5, 2024**

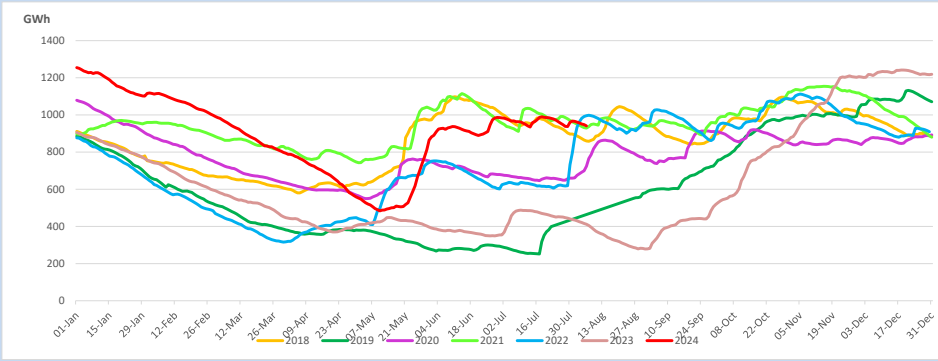
Based on Telemetered Power Stations only



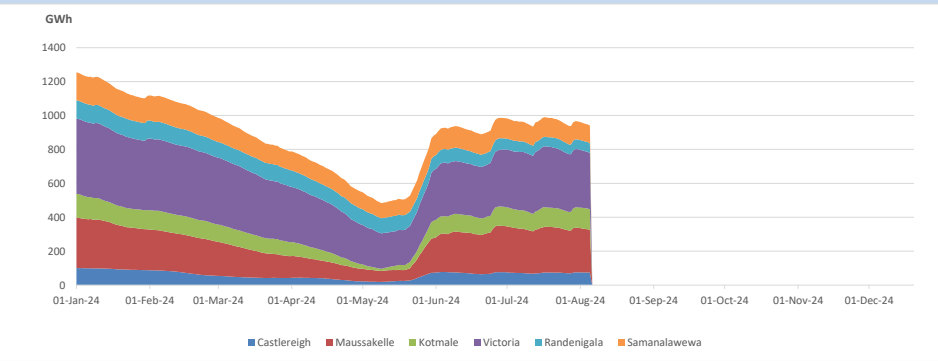
**1.14 Major Incidents reported during the day August 5, 2024**

- 1) Mahiyanganaya - Rantembe 132kV cct 02 tripped from Rantembe end and tripped & A/R from Mahiyanganaya end at 7:10hrs due to the operation of distance protection. The cct was normalized at 7:54hrs.

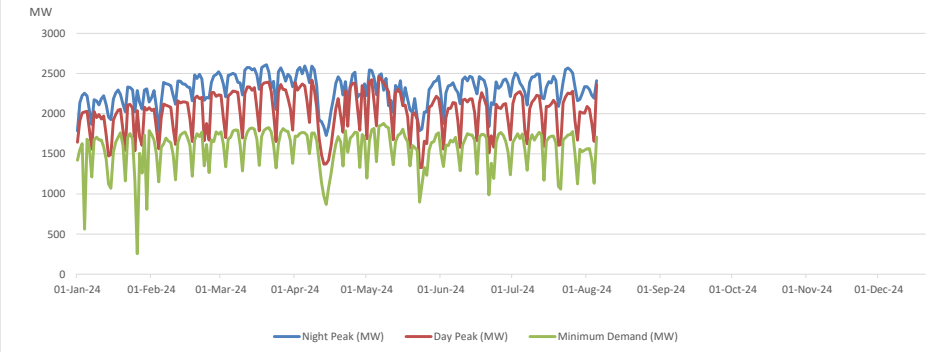
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



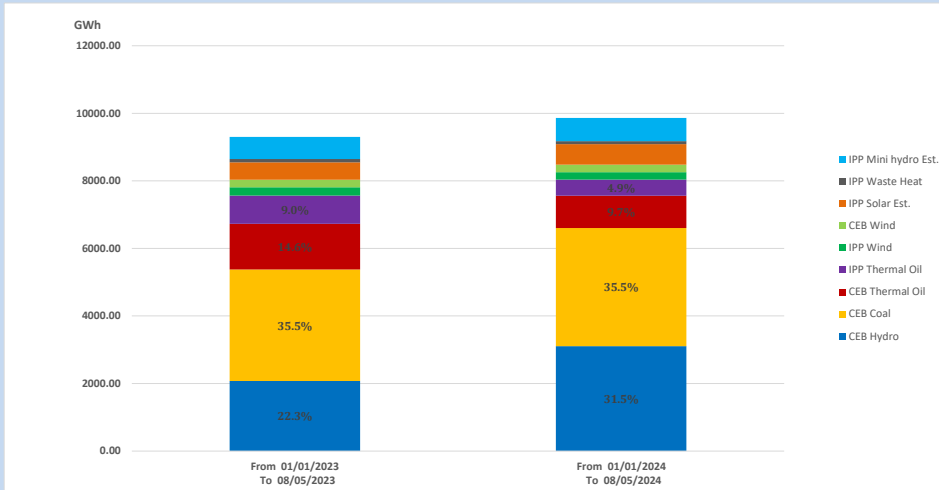
## 4. Variation of Demand during the current year



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



## 5. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 08/05/2023

9300 GWh

From 01/01/2024 To 08/05/2024

9861 GWh

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

Unserviced energy due to power cuts has been excluded in 2023

### Thermal Power 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
Sobadhanavi	Auto Diesel

## 6. Installed System Capacity

Table 09

	Installed Capacity (MW)
CEB Hydro	1530
CEB Coal	810
CEB Thermal Oil	786
IPP Thermal Oil (West Coast)	270
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	343
Rooftop Solar (LT Bulk)	289
Rooftop Solar (HT Bulk)	84

Data Source - Monthly Review Report [Mar-2024]