

# Generation and Reservoirs Statistics

September 6, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

# 1. Daily Generation Mix

September 6, 2024

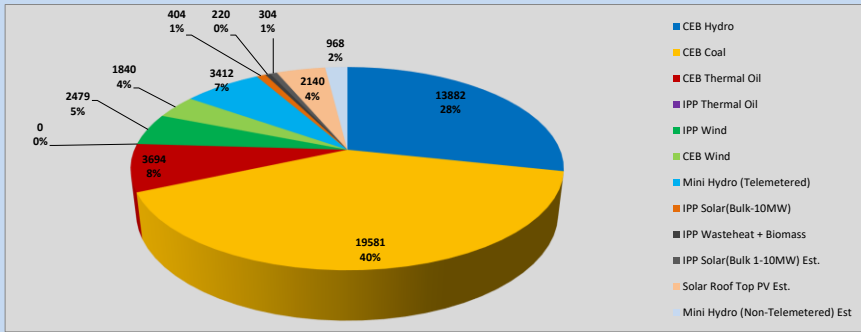


Table 01

	Generation (MWh)
CEB Hydro	13882
CEB Coal	19581
CEB Thermal Oil	3694
IPP Thermal Oil	0
IPP Wind	2479
CEB Wind	1840
Mini Hydro (Telemetered)	3412
IPP Solar (Bulk)	404
IPP Waste heat + Biomass	220
<b>Total Generation (Excluding estimated figures)</b>	<b>45,512</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	968
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
<b>Total Generation (Including estimated figures)</b>	<b>48,924</b>

\* Estimated figures of CEB generation report

## 1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	80	28.32%
CEB Coal	114	40.44%
CEB Thermal Oil	14	5.12%
IPP Thermal	1	0.29%
IPP Wind	13	4.76%
CEB Wind	11	3.86%
Mini Hydro *	30	10.53%
IPP Solar *	17	6.04%
IPP Waste heat + BMP	2	0.64%
<b>Total</b>	<b>282</b>	

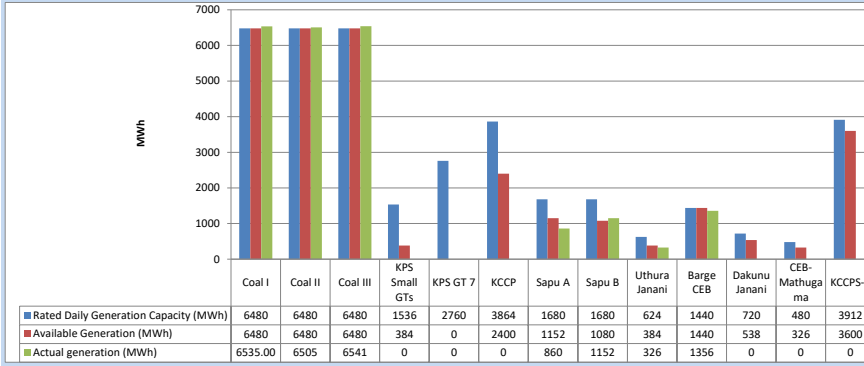
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,531	31.13%
CEB Coal	3,993	35.19%
CEB Thermal Oil	1,145	10.09%
IPP Thermal	510	4.49%
IPP Wind	276	2.43%
CEB Wind	276	2.44%
Mini Hydro *	823	7.26%
IPP Solar *	691	6.09%
IPP Waste heat	99	0.88%
<b>Total</b>	<b>11,346</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

September 6, 2024

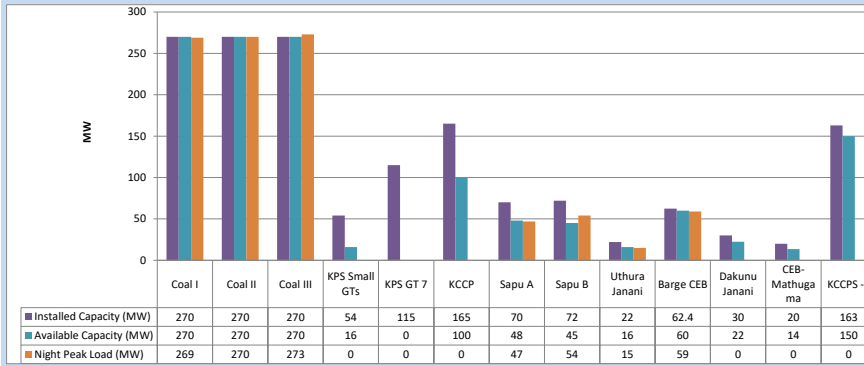


Available Generation is estimated based on plant availability at 6.00am on

September 7, 2024

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

September 6, 2024

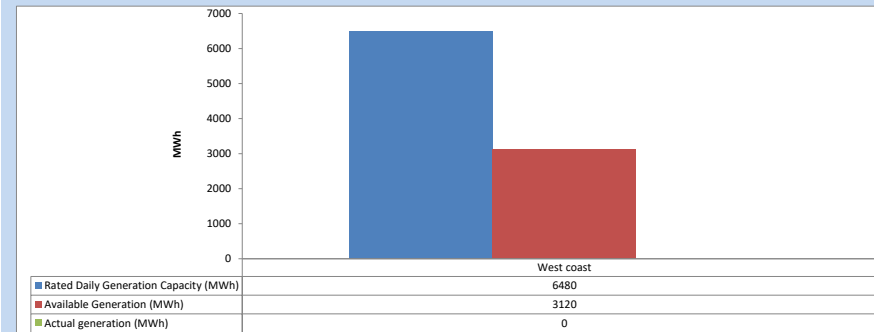


Plant availability is recorded at 6.00 am on

September 7, 2024

### 1.4 IPP owned Thermal Plant Dispatch

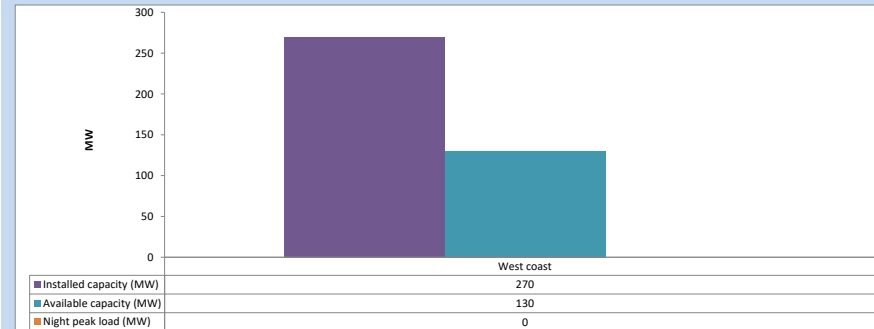
September 6, 2024



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

September 7, 2024

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

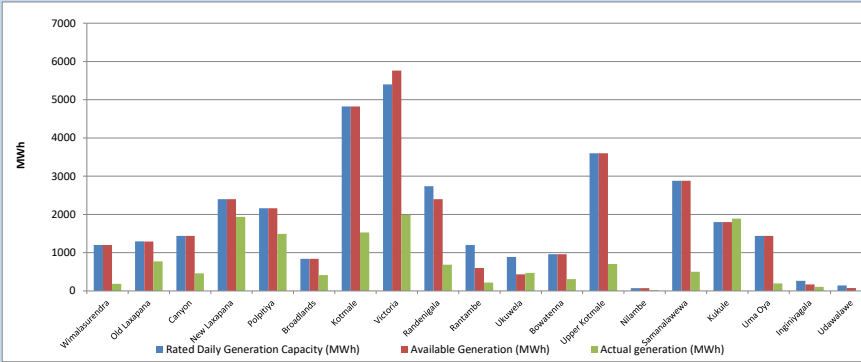


Plant availability is recorded at 6.00 am on

September 7, 2024

1.6 Major Hydro Plant Dispatch

September 6, 2024

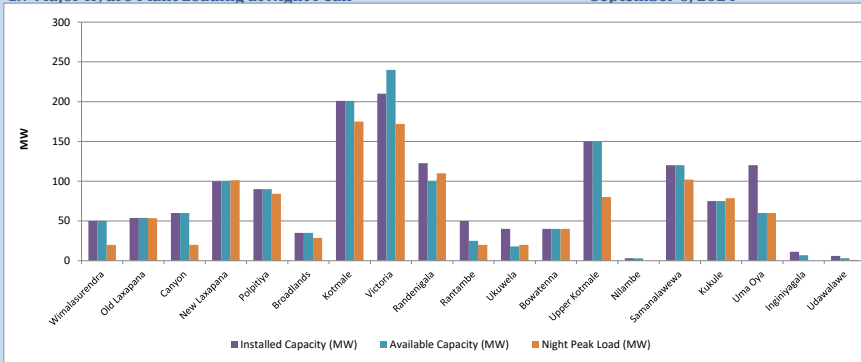


Available Generation is estimated based on plant availability at 6.00am on

September 7, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 6, 2024



Plant availability is recorded at 6.00 am on

September 7, 2024

1.8 Summary of Major Plant performance

September 6, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	183
Old Laxapana	54	54	54	771
Canyon	60	60	20	460
New Laxapana	100	100	101	1,937
Polpitiya	90	90	84	1,490
Broadlands	35	35	29	416
Kotmale	201	201	175	1,530
Victoria	210	240	172	1,986
Randenigala	123	100	110	687
Rantambe	50	25	20	220
Ukuwela	40	18	20	470
Bowatenna	40	40	40	308
Upper Kotmale	150	150	80	703
Nilambe	3	3	0	24
Samanalawewa	120	120	102	502
Kukule	75	75	79	1,892
Uma Oya	120	60	60	197
Inginiyagala	11	7	0	107
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	269	6,535
Puttalam Coal II	270	270	270	6,505
Puttalam Coal III	270	270	273	6,541
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	100	0	0
Sapugaskanda A	70	48	47	860
Sapugaskanda B	72	45	54	1,152
Uthura Janani	22	16	15	326
Barge CEB	62	60	59	1,356
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	14	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,842	2,497	45,513

Note-

Plant availability is the availability recorded at 6 am on

September 7, 2024

1.9 Contribution to the Night Peak in MW

September 6, 2024

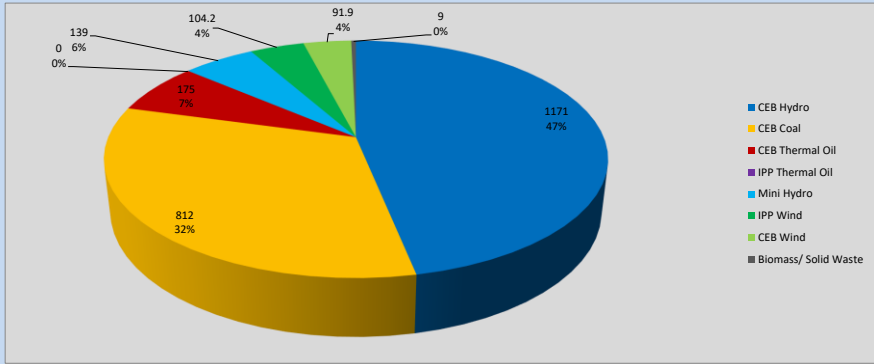


Table 05

CEB Hydro	1171	MW
CEB Coal	812	MW
CEB Thermal Oil	175	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	139	MW
IPP Wind	104.2	MW
CEB Wind	91.9	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

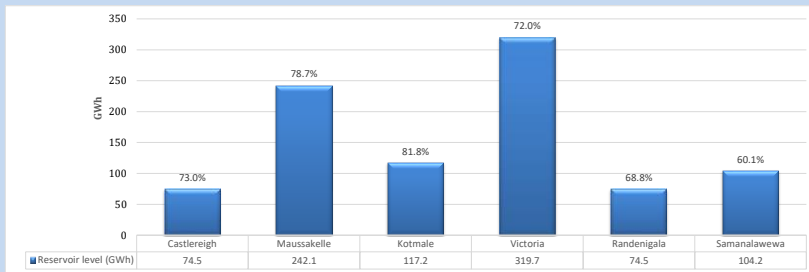
Table 06

Night Peak*	2,502	MW
Day Peak Maximum Demand	2,232	MW
Day Peak Minimum Demand	1,703	MW
Off Peak Minimum Demand	1,509	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 September 7, 2024



Total Reservoir Level 932.2 GWh  
% of Total capacity 72.9%

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

September 6, 2024

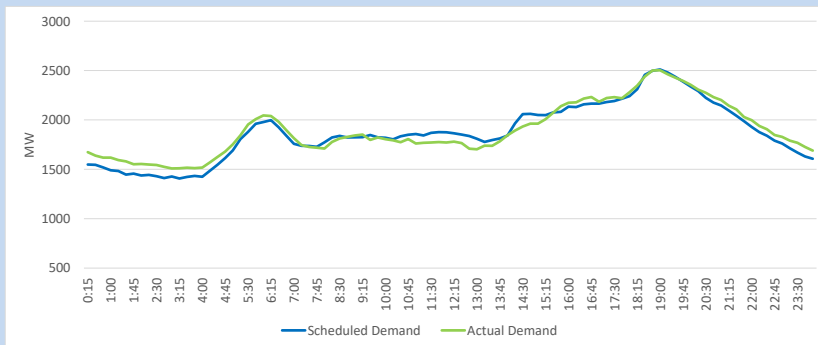
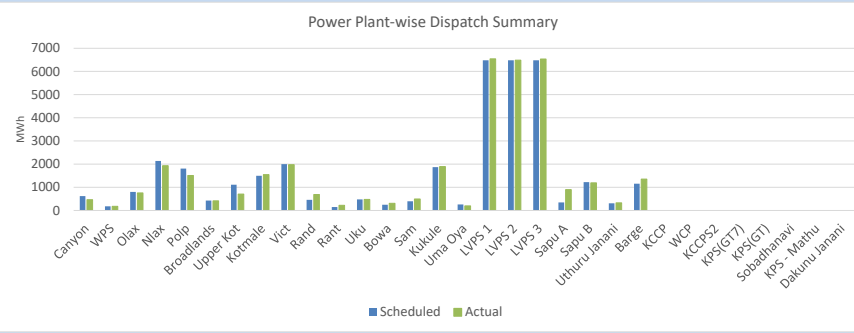


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,460	13,796	(665)
CEB Coal	19,440	19,572	132
CEB Thermal Oil	3,043	3,777	734
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,043	8,386	343
<b>Total</b>	<b>44,986</b>	<b>45,530</b>	<b>544</b>

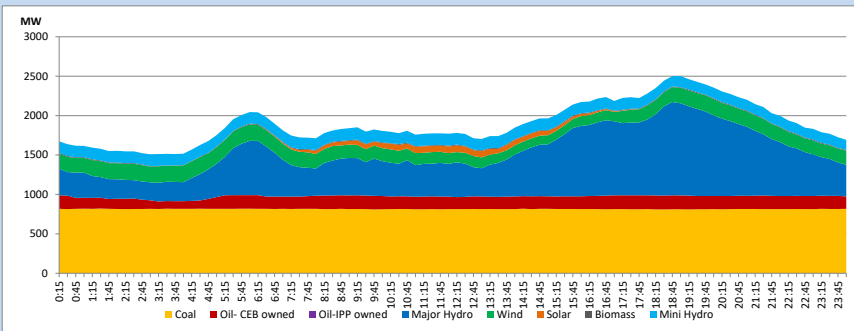
1.12 Power Plant-wise Dispatch Summary

September 6, 2024



1.13 Daily Load Curve

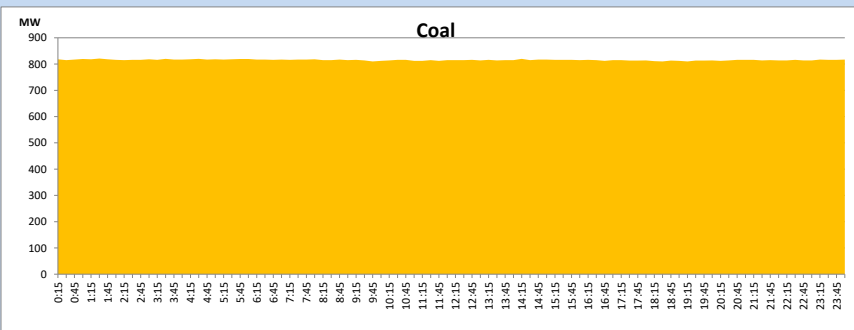
September 6, 2024



Solar and wind data is based on Telemetered Power Stations only

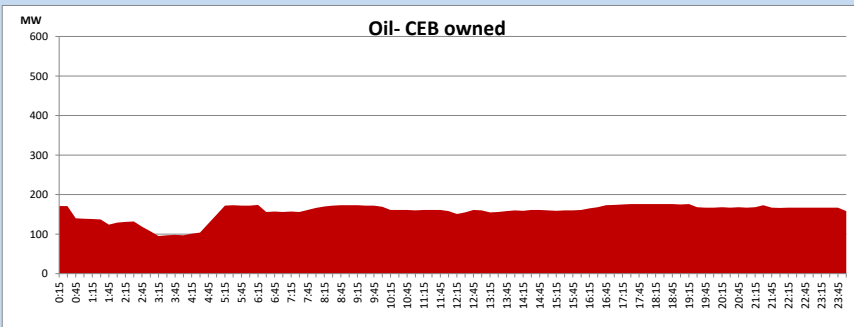
Coal Generation during

September 6, 2024

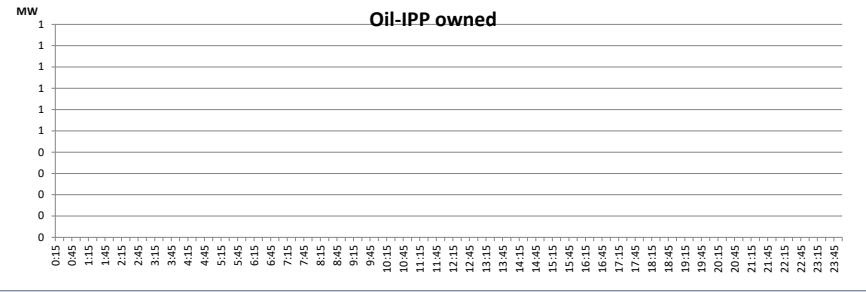


CEB Oil Plant Generation during

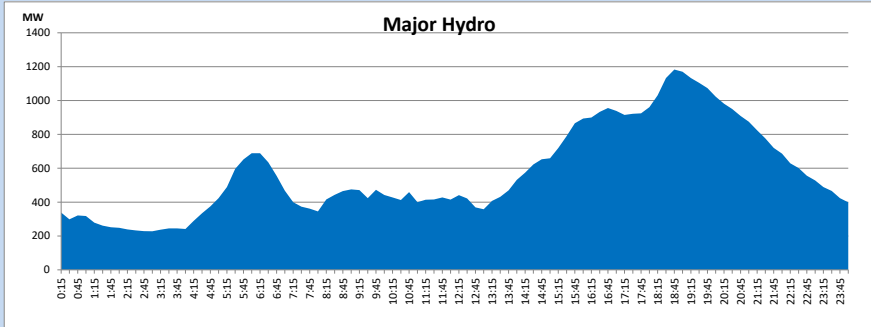
September 6, 2024



IPP Oil Plant Generation during September 6, 2024

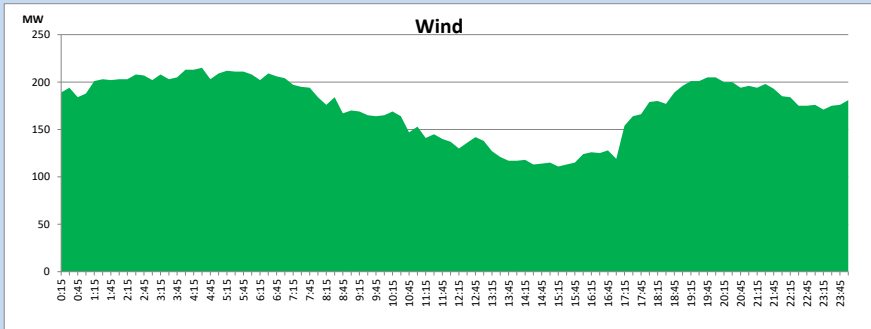


Major Hydro Generation during September 6, 2024



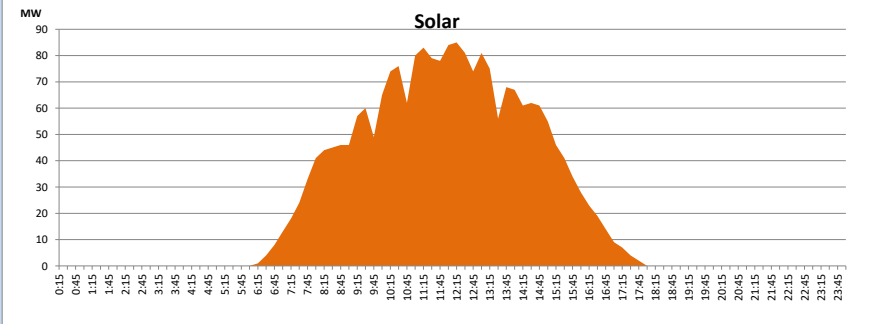
Wind Generation during September 6, 2024

Based on Telemetered Power Stations only



Solar Generation during September 6, 2024

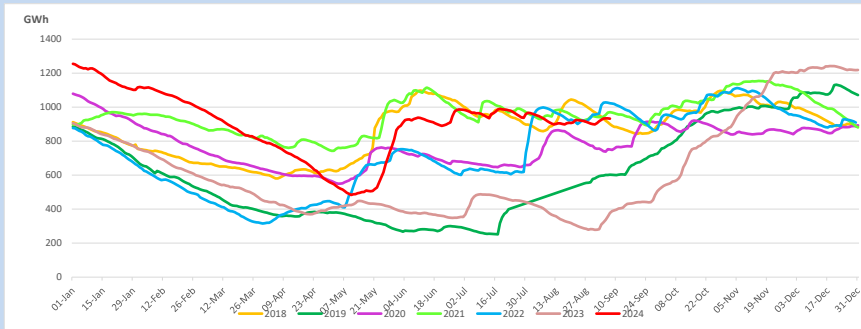
Based on Telemetered Power Stations only



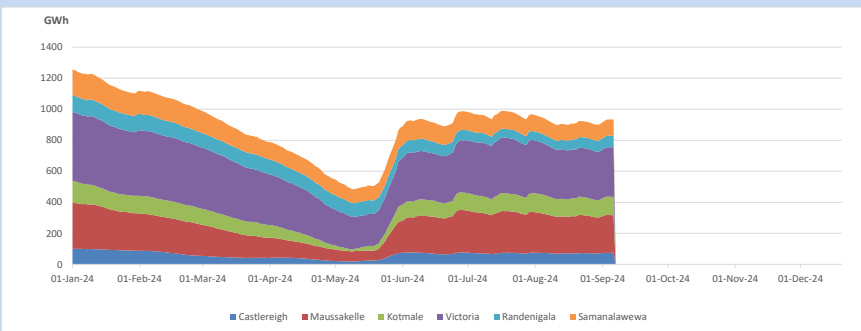
1.14 Major Incidents reported during the day September 6, 2024

Nil

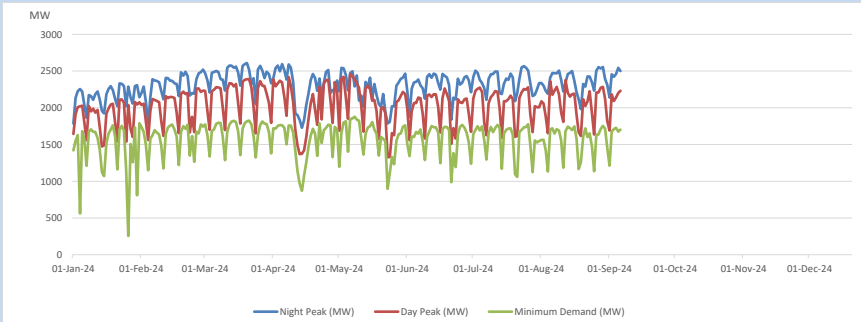
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



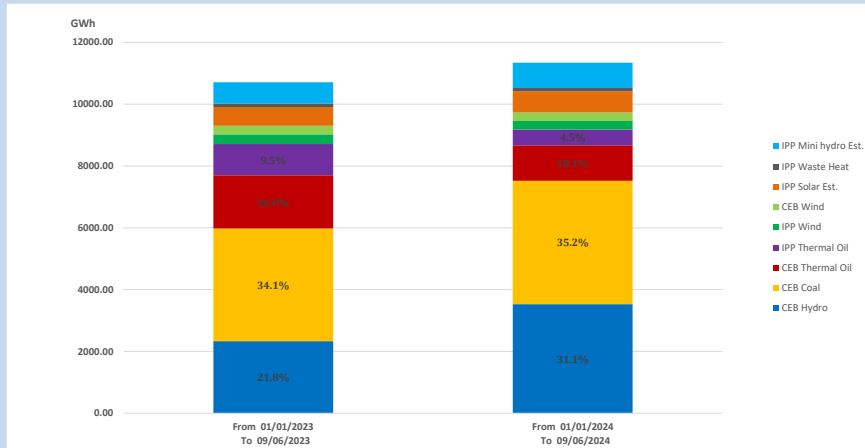
## 4. Variation of Demand during the current year



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 09/06/2023  
From 01/01/2024 To 09/06/2024

10711 GWh  
11346 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 & Sobadhanavi)	482
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 - May 2024 for NCRE installed capacities