

# Generation and Reservoirs Statistics

August 30, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

# 1. Daily Generation Mix

August 30, 2024

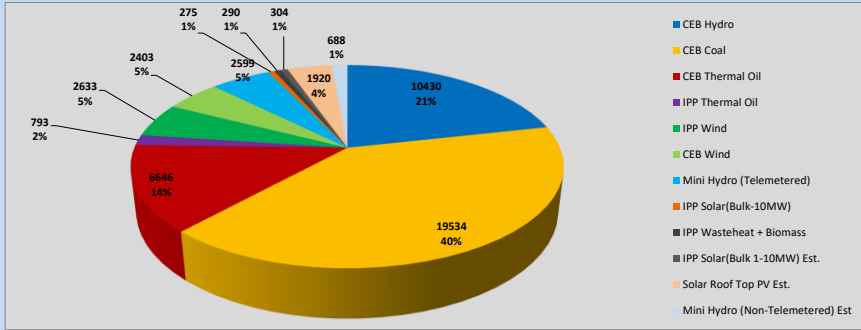


Table 01

	Generation (MWh)
CEB Hydro	10430
CEB Coal	19534
CEB Thermal Oil	6646
IPP Thermal Oil	793
IPP Wind	2633
CEB Wind	2403
Mini Hydro (Telemetered)	2599
IPP Solar (Bulk)	275
IPP Waste heat + Biomass	290
<b>Total Generation (Excluding estimated figures)</b>	<b>45,603</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	688
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
<b>Total Generation (Including estimated figures)</b>	<b>48,515</b>

\* Estimated figures of CEB generation report

## 1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	427	31.24%
CEB Coal	485	35.47%
CEB Thermal Oil	144	10.52%
IPP Thermal	33	2.43%
IPP Wind	42	3.09%
CEB Wind	48	3.53%
Mini Hydro *	103	7.52%
IPP Solar *	76	5.58%
IPP Waste heat + BMP	8	0.62%
<b>Total</b>	<b>1,368</b>	

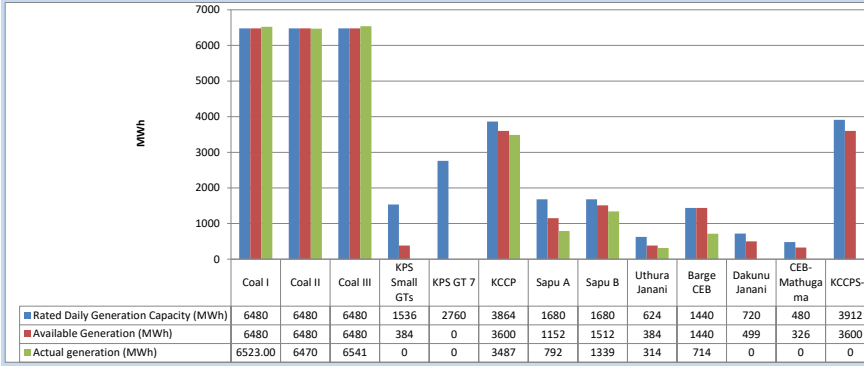
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,441	31.23%
CEB Coal	3,860	35.03%
CEB Thermal Oil	1,127	10.23%
IPP Thermal	509	4.62%
IPP Wind	260	2.36%
CEB Wind	263	2.39%
Mini Hydro *	790	7.17%
IPP Solar *	671	6.09%
IPP Waste heat	97	0.88%
<b>Total</b>	<b>11,020</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

August 30, 2024

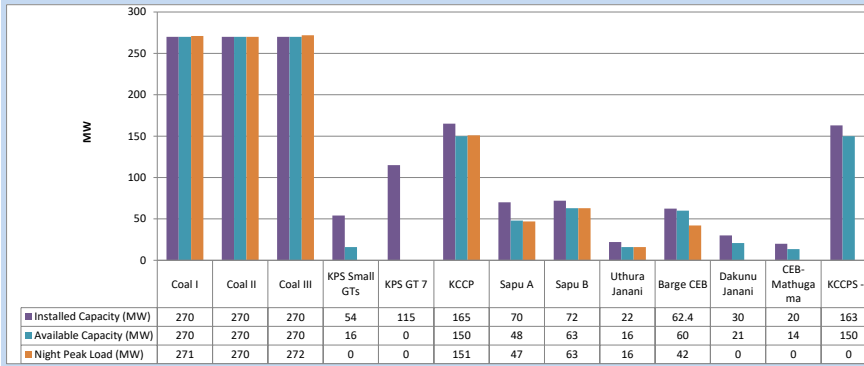


Available Generation is estimated based on plant availability at 6.00am on

August 31, 2024

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

August 30, 2024

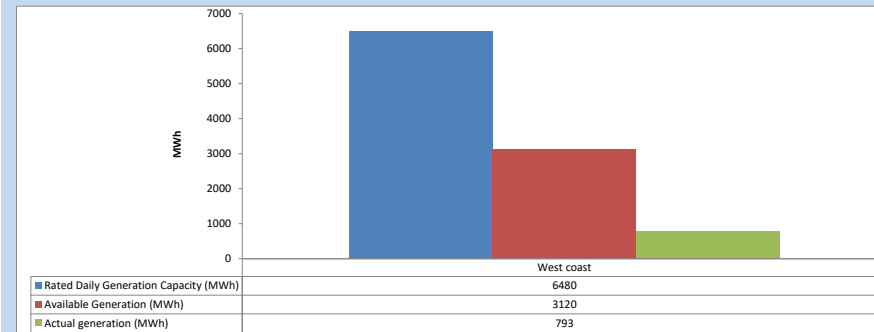


Plant availability is recorded at 6.00 am on

August 31, 2024

### 1.4 IPP owned Thermal Plant Dispatch

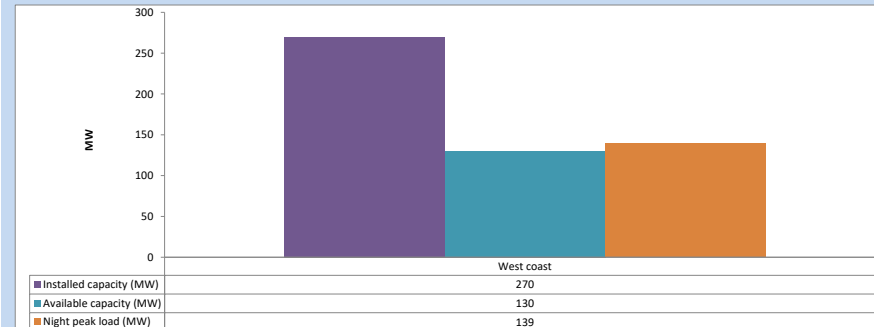
August 30, 2024



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

August 31, 2024

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

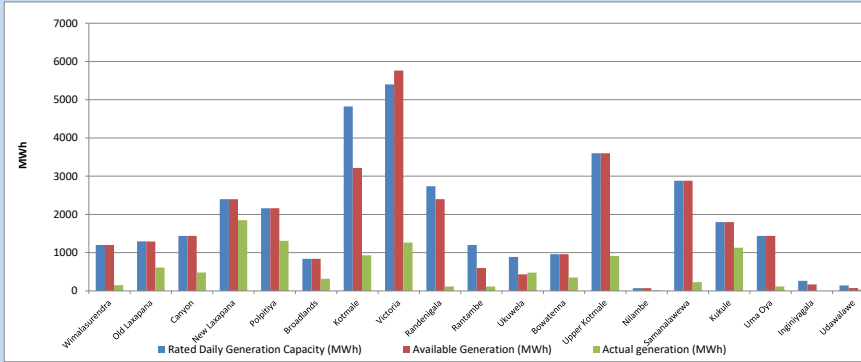


Plant availability is recorded at 6.00 am on

August 31, 2024

1.6 Major Hydro Plant Dispatch

August 30, 2024

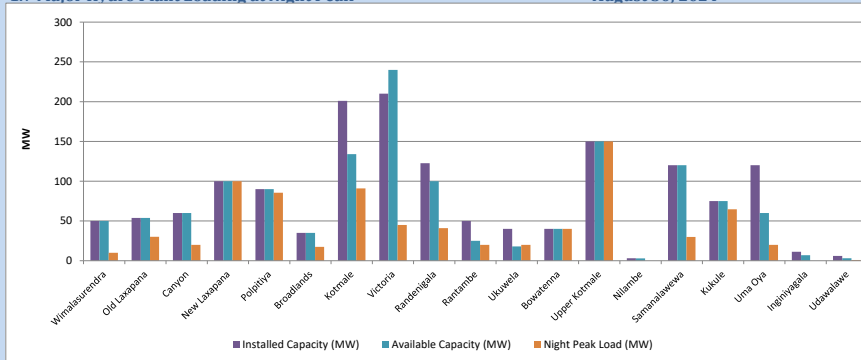


Available Generation is estimated based on plant availability at 6.00am on

August 31, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 30, 2024



Plant availability is recorded at 6.00 am on

August 31, 2024

1.8 Summary of Major Plant performance

August 30, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	10	151
Old Laxapana	54	54	30	609
Canyon	60	60	20	483
New Laxapana	100	100	100	1,850
Polpitiya	90	90	86	1,310
Broadlands	35	35	17	317
Kotmale	201	134	91	930
Victoria	210	240	45	1,267
Randeniigala	123	100	41	115
Rantambe	50	25	20	118
Ukuwela	40	18	20	480
Bowatenna	40	40	40	352
Upper Kotmale	150	150	150	914
Nilambe	3	3	0	20
Samanalawewa	120	120	30	231
Kukule	75	75	65	1,130
Uma Oya	120	60	20	117
Inginiyagala	11	7	0	0
Udawalawe	6	3	1	36
Puttalam Coal I	270	270	271	6,523
Puttalam Coal II	270	270	270	6,470
Puttalam Coal III	270	270	272	6,541
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	151	3,487
Sapugaskanda A	70	48	47	792
Sapugaskanda B	72	63	63	1,339
Uthura Janani	22	16	16	314
Barge CEB	62	60	42	714
CEB-Hambantota	30	21	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	139	793
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,841	2,388	45,603

Note-

Plant availability is the availability recorded at 6 am on

August 31, 2024

1.9 Contribution to the Night Peak in MW

August 30, 2024

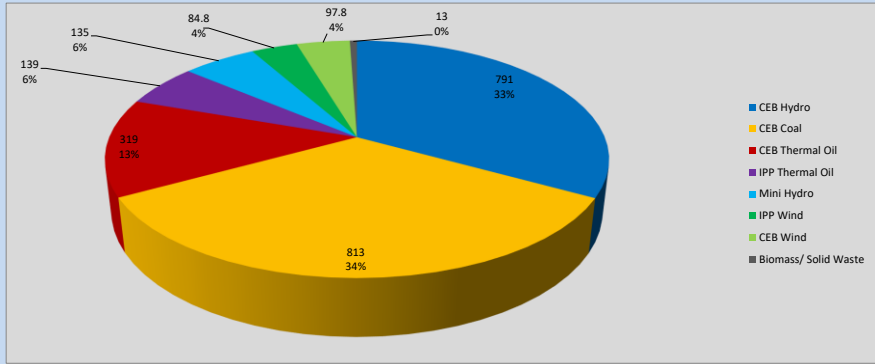


Table 05

CEB Hydro	791	MW
CEB Coal	813	MW
CEB Thermal Oil	319	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	135	MW
IPP Wind	84.8	MW
CEB Wind	97.8	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

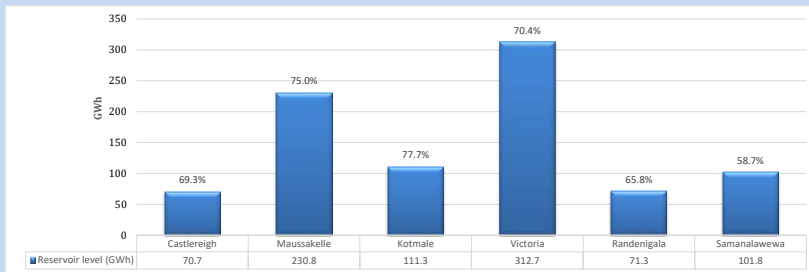
Table 06

Night Peak*	2,393	MW
Day Peak Maximum Demand	2,124	MW
Day Peak Minimum Demand	1,718	MW
Off Peak Minimum Demand	1,542	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 31, 2024



Total Reservoir Level  
898.6 GWh  
% of Total capacity  
70.3%

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

August 30, 2024

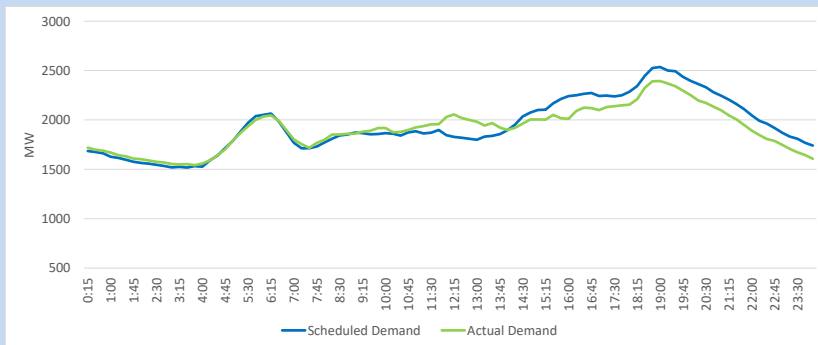
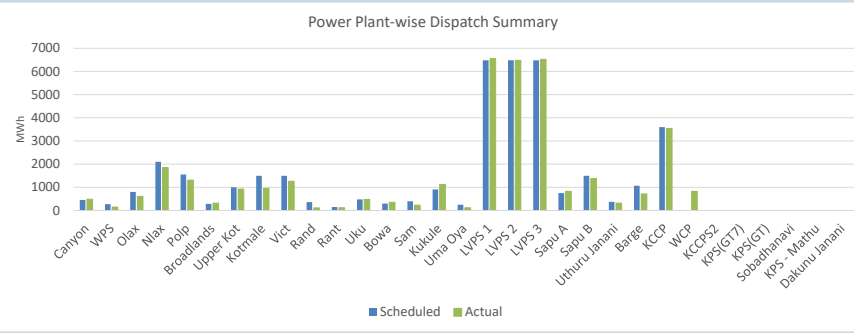


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,309	10,404	(1,905)
CEB Coal	19,440	19,559	119
CEB Thermal Oil	7,293	6,777	(516)
IPP Thermal Oil	-	826	826
NCRE (Telemetered)	7,524	8,261	736
<b>Total</b>	<b>46,566</b>	<b>45,827</b>	<b>-739</b>

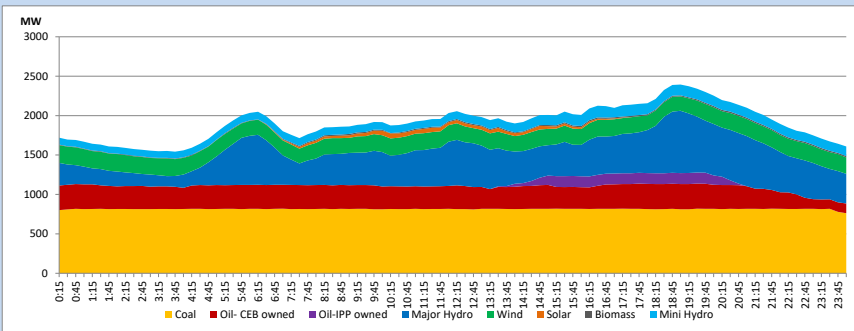
1.12 Power Plant-wise Dispatch Summary

August 30, 2024



1.13 Daily Load Curve

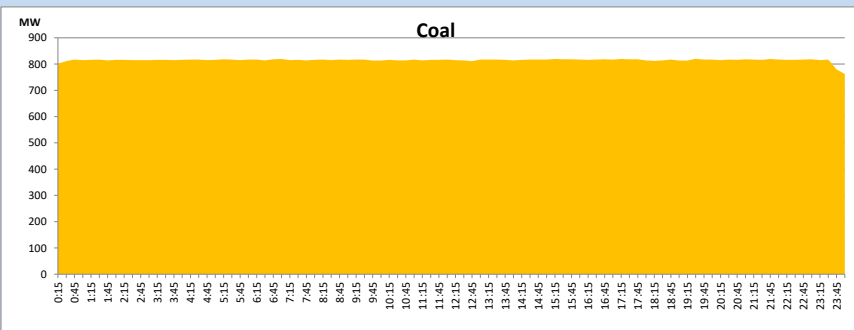
August 30, 2024



Solar and wind data is based on Telemetered Power Stations only

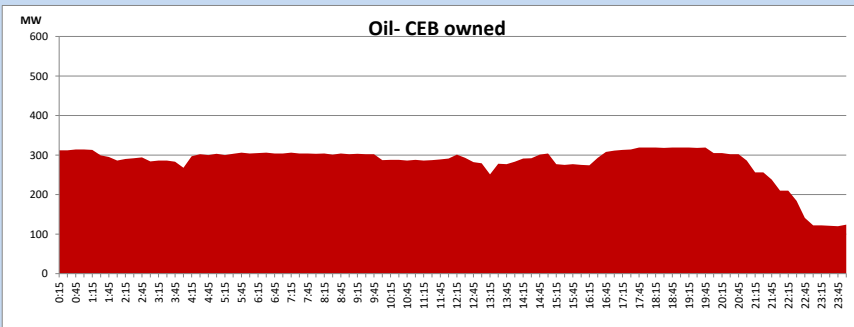
Coal Generation during

August 30, 2024

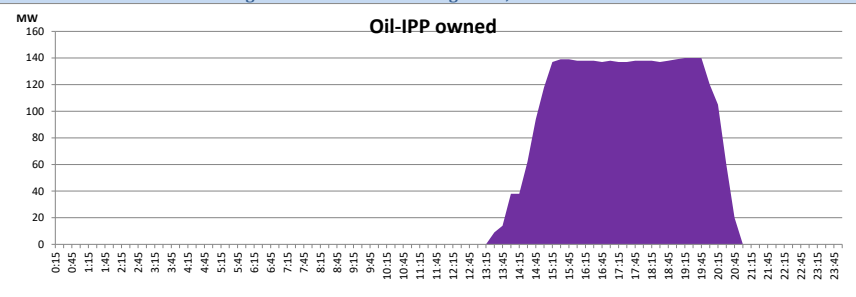


CEB Oil Plant Generation during

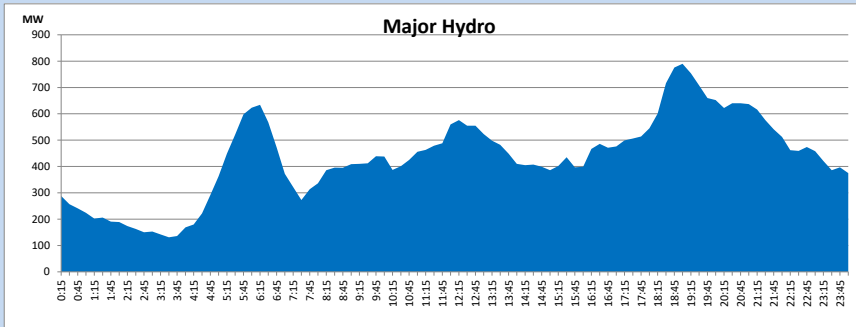
August 30, 2024



**IPP Oil Plant Generation during August 30, 2024**

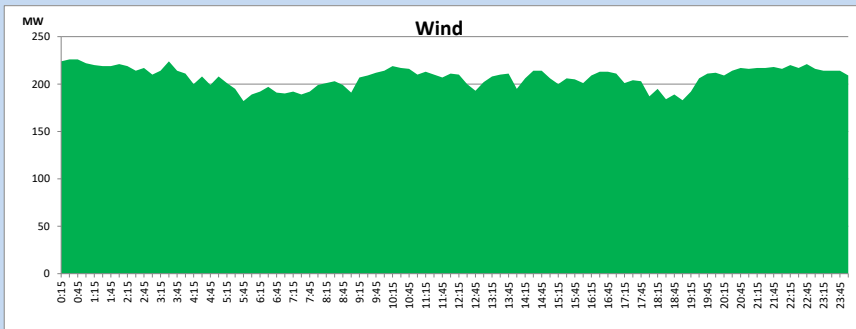


**Major Hydro Generation during August 30, 2024**



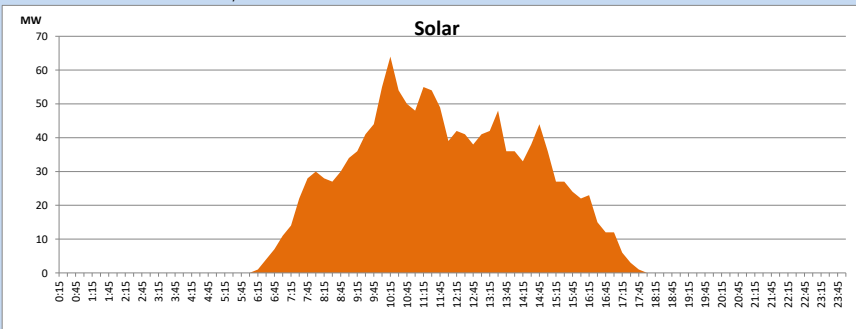
**Wind Generation during August 30, 2024**

Based on Telemetered Power Stations only



**Solar Generation during August 30, 2024**

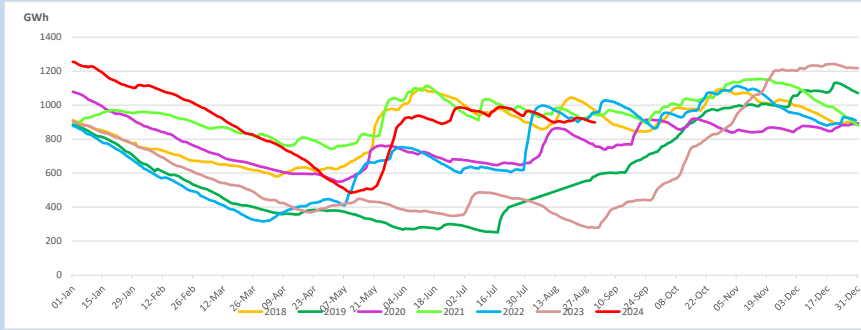
Based on Telemetered Power Stations only



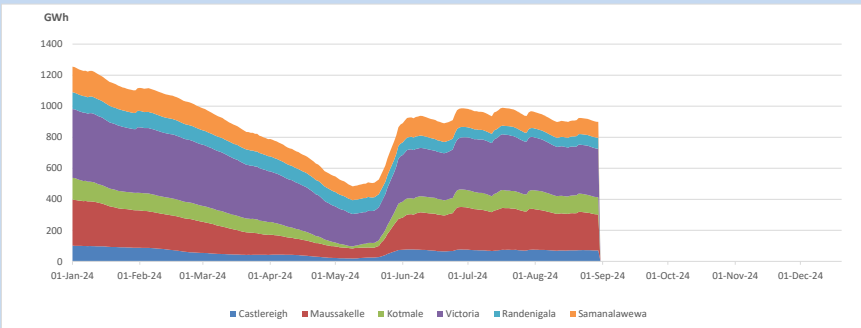
**1.14 Major Incidents reported during the day August 30, 2024**

1) New Chillaw - Pannala 132kV cct was manually switched off with the request of the O&M at 09:26hrs for CVT inspection. The cct. was normalized at 10:30hrs.

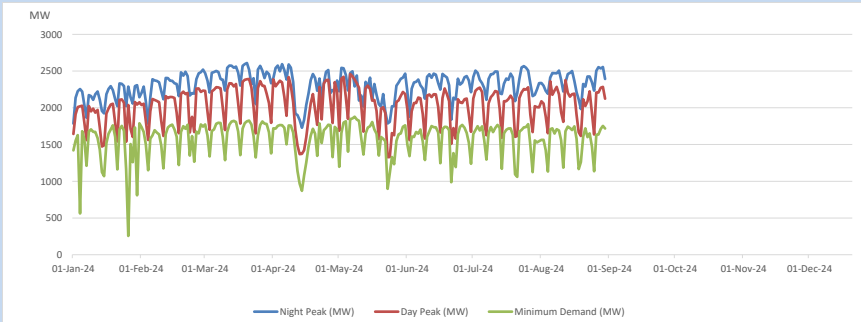
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



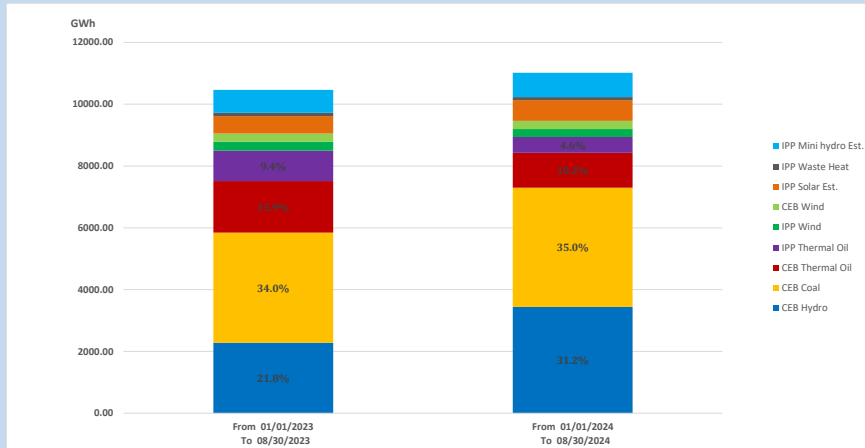
## 4. Variation of Demand during the current year



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 08/30/2023** **10464 GWh**  
**From 01/01/2024 To 08/30/2024** **11020 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 - May 2024 for NCRE installed capacities