

# Generation and Reservoirs Statistics

September 5, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

September 5, 2024

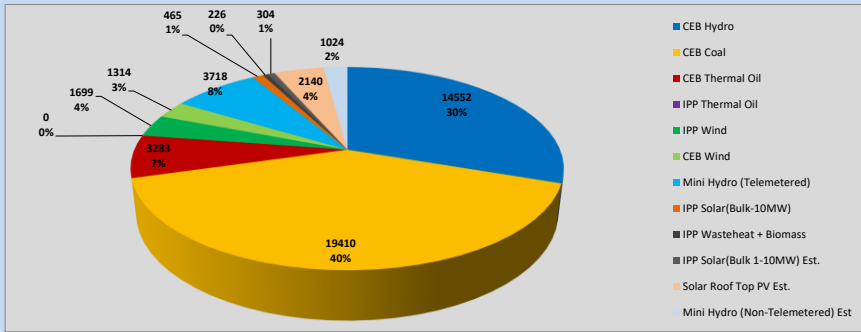


Table 01

	Generation (MWh)
CEB Hydro	14552
CEB Coal	19410
CEB Thermal Oil	3283
IPP Thermal Oil	0
IPP Wind	1699
CEB Wind	1314
Mini Hydro (Telemetered)	3718
IPP Solar (Bulk)	465
IPP Waste heat + Biomass	226
<b>Total Generation (Excluding estimated figures)</b>	<b>44,667</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1024
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
<b>Total Generation (Including estimated figures)</b>	<b>48,135</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	66	28.31%
CEB Coal	94	40.53%
CEB Thermal Oil	11	4.61%
IPP Thermal	1	0.35%
IPP Wind	11	4.69%
CEB Wind	9	3.88%
Mini Hydro *	25	10.87%
IPP Solar *	14	6.09%
IPP Waste heat + BMP	2	0.68%
<b>Total</b>	<b>233</b>	

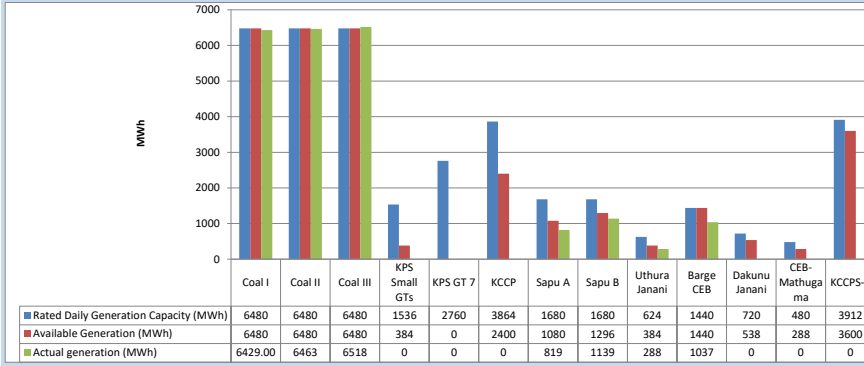
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,518	31.14%
CEB Coal	3,973	35.17%
CEB Thermal Oil	1,141	10.10%
IPP Thermal	510	4.51%
IPP Wind	274	2.42%
CEB Wind	275	2.43%
Mini Hydro *	819	7.25%
IPP Solar *	688	6.09%
IPP Waste heat	99	0.88%
<b>Total</b>	<b>11,297</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

September 5, 2024

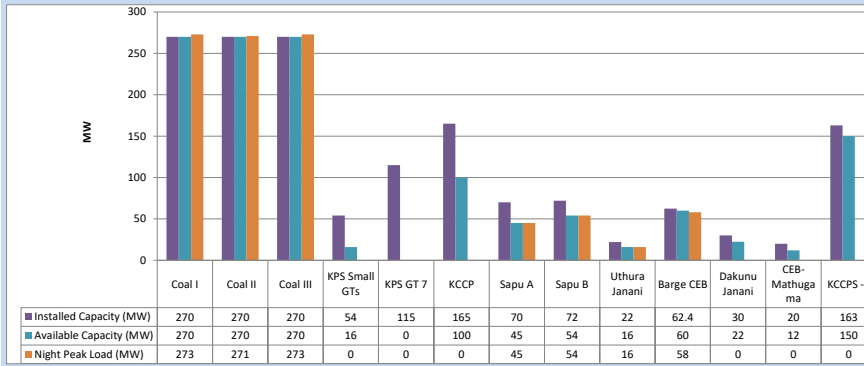


Available Generation is estimated based on plant availability at 6.00am on

September 6, 2024

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

September 5, 2024

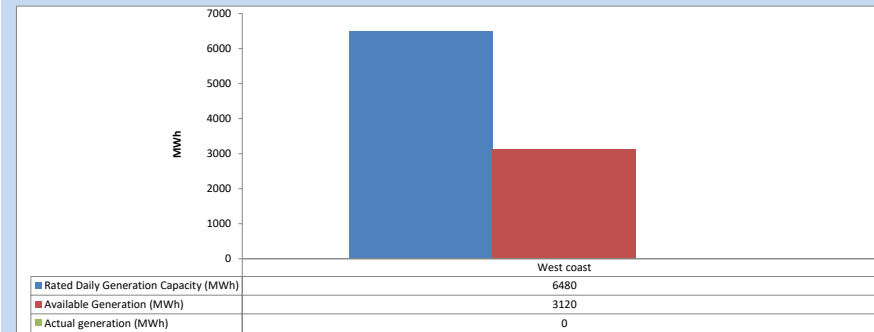


Plant availability is recorded at 6.00 am on

September 6, 2024

### 1.4 IPP owned Thermal Plant Dispatch

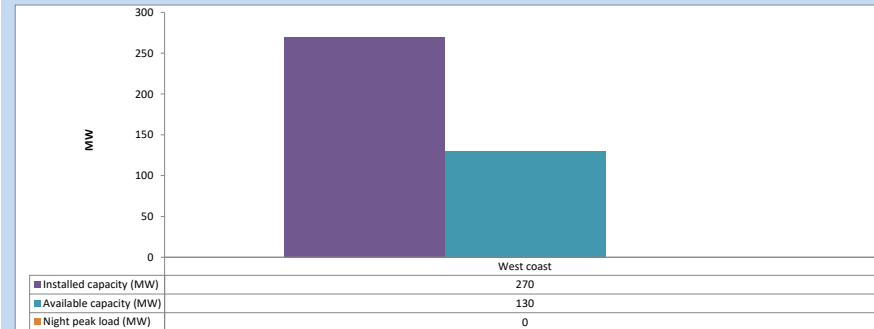
September 5, 2024



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

September 6, 2024

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

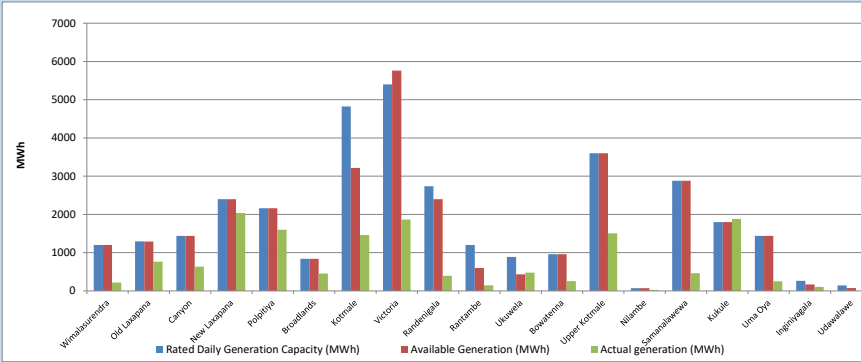


Plant availability is recorded at 6.00 am on

September 6, 2024

1.6 Major Hydro Plant Dispatch

September 5, 2024

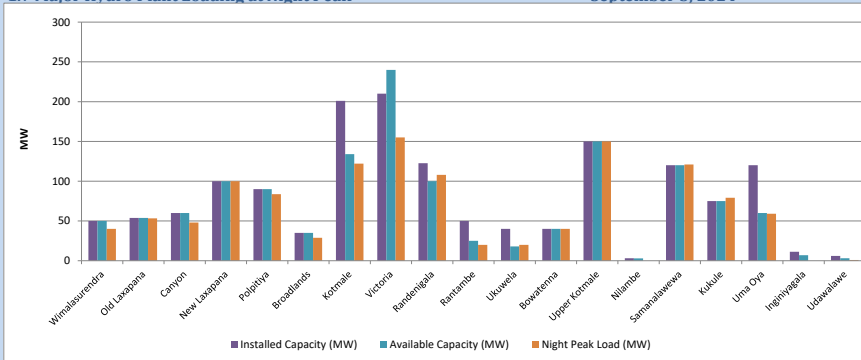


Available Generation is estimated based on plant availability at 6.00am on

September 6, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 5, 2024



Plant availability is recorded at 6.00 am on

September 6, 2024

1.8 Summary of Major Plant performance

September 5, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	219
Old Laxapana	54	54	53	766
Canyon	60	60	48	632
New Laxapana	100	100	100	2,039
Polpitiya	90	90	84	1,600
Broadlands	35	35	29	454
Kotmale	201	134	122	1,460
Victoria	210	240	155	1,868
Randenigala	123	100	108	395
Rantambe	50	25	20	147
Ukuwela	40	18	20	480
Bowatenna	40	40	40	256
Upper Kotmale	150	150	150	1,508
Nilambe	3	3	0	27
Samanalawewa	120	120	121	463
Kukule	75	75	79	1,881
Uma Oya	120	60	59	252
Inginiyagala	11	7	0	106
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	273	6,429
Puttalam Coal II	270	270	271	6,463
Puttalam Coal III	270	270	273	6,518
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	100	0	0
Sapugaskanda A	70	45	45	819
Sapugaskanda B	72	54	54	1,139
Uthura Janani	22	16	16	288
Barge CEB	62	60	58	1,037
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	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	2,779	2,539	44,668

Note-

Plant availability is the availability recorded at 6 am on

September 6, 2024

1.9 Contribution to the Night Peak in MW

September 5, 2024

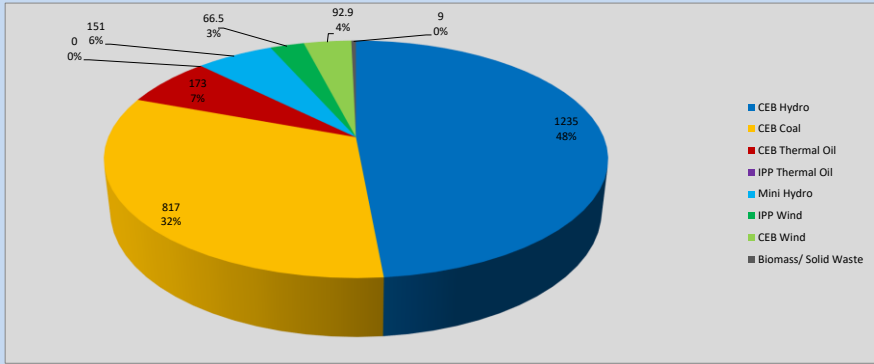


Table 05

CEB Hydro	1235	MW
CEB Coal	817	MW
CEB Thermal Oil	173	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	151	MW
IPP Wind	66.5	MW
CEB Wind	92.9	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

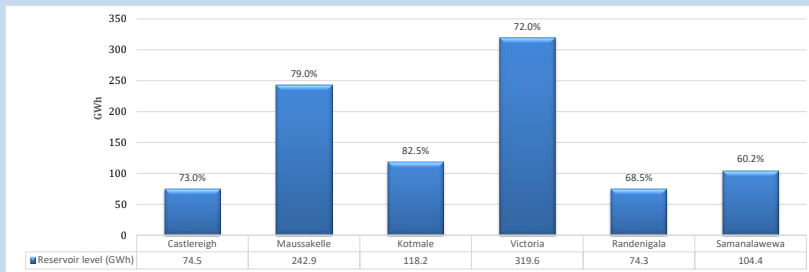
Table 06

Night Peak*	2,545	MW
Day Peak Maximum Demand	2,202	MW
Day Peak Minimum Demand	1,676	MW
Off Peak Minimum Demand	1,426	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 6, 2024



Total Reservoir Level  
933.9 GWh  
% of Total capacity  
73.0%

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

September 5, 2024

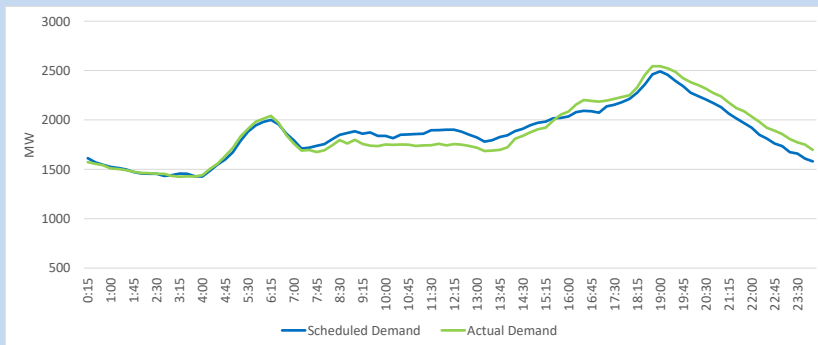
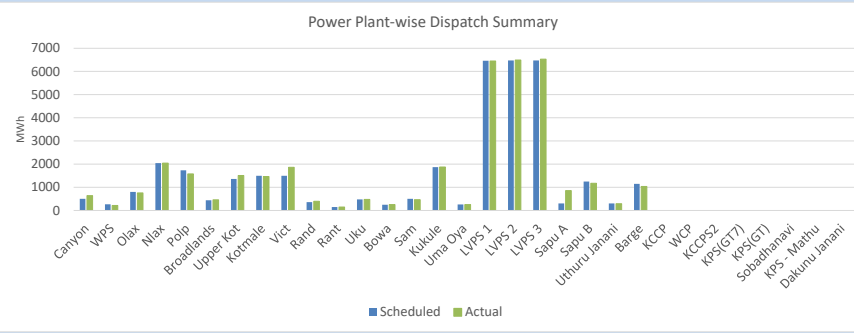


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,019	14,406	387
CEB Coal	19,416	19,478	62
CEB Thermal Oil	3,009	3,365	356
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,276	7,505	(771)
<b>Total</b>	<b>44,719</b>	<b>44,754</b>	<b>34</b>

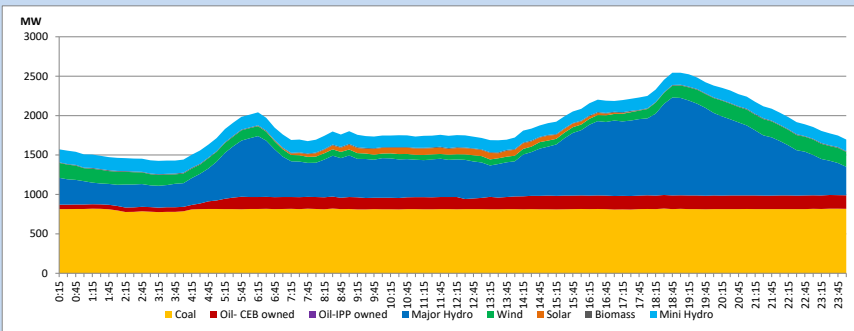
1.12 Power Plant-wise Dispatch Summary

September 5, 2024



1.13 Daily Load Curve

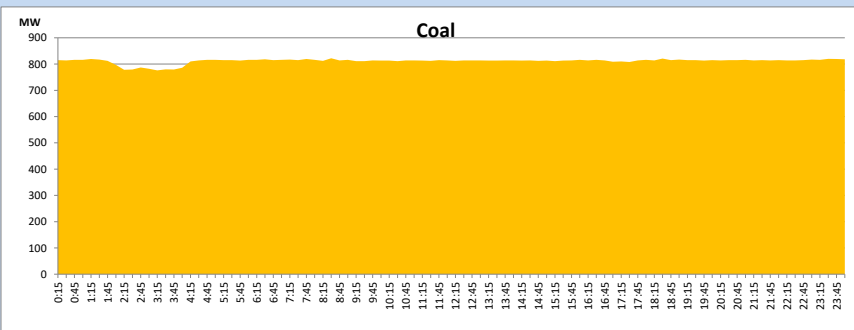
September 5, 2024



Solar and wind data is based on Telemetered Power Stations only

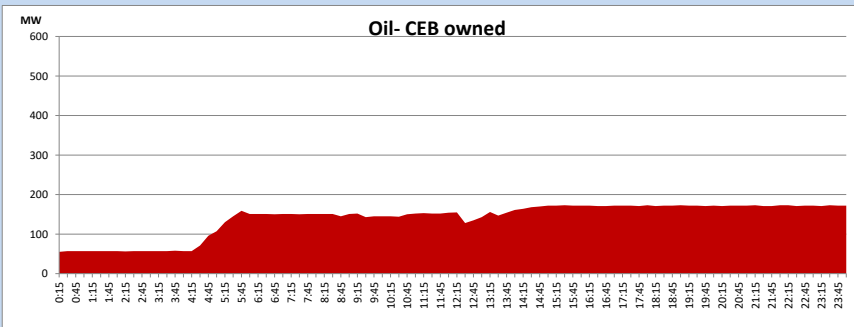
Coal Generation during

September 5, 2024

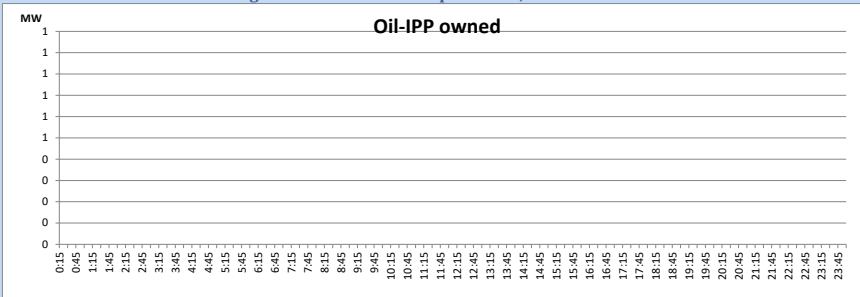


CEB Oil Plant Generation during

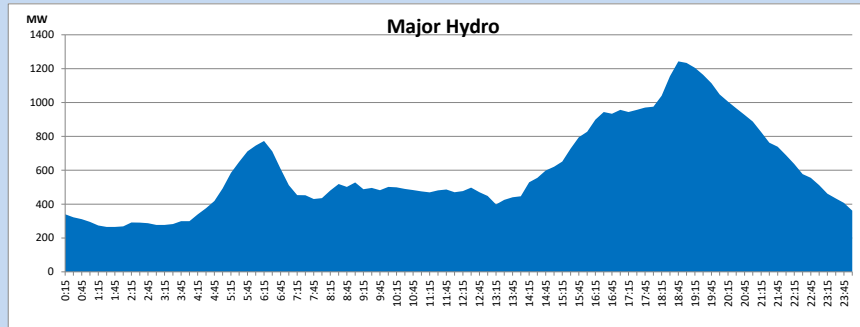
September 5, 2024



IPP Oil Plant Generation during September 5, 2024

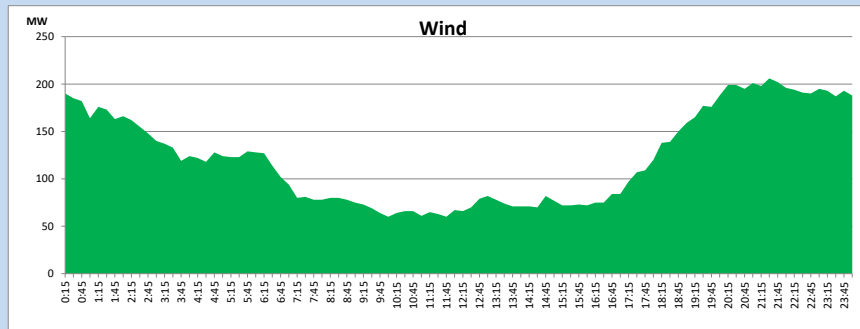


Major Hydro Generation during September 5, 2024



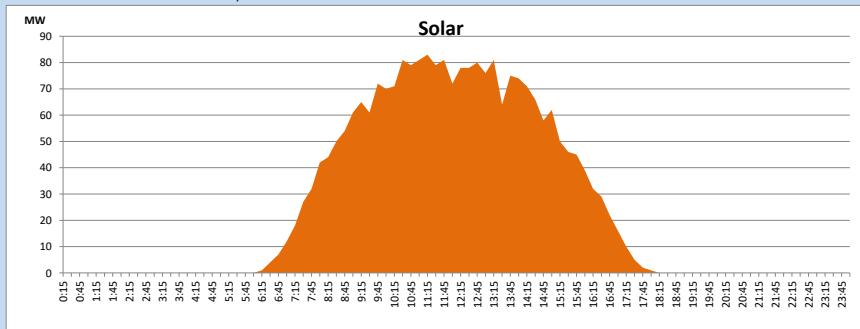
Wind Generation during September 5, 2024

Based on Telemetered Power Stations only



Solar Generation during September 5, 2024

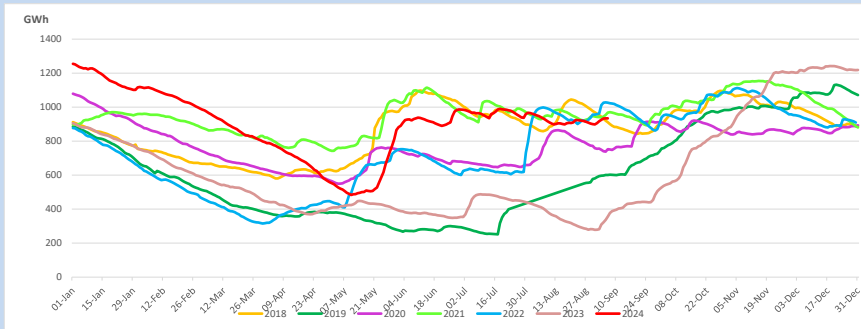
Based on Telemetered Power Stations only



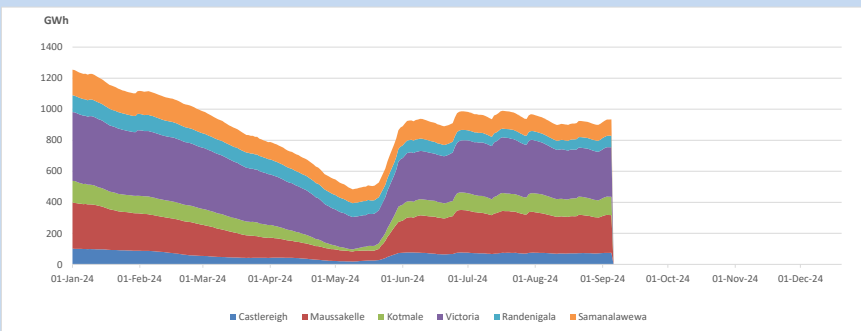
1.14 Major Incidents reported during the day September 5, 2024

- 1) New Anuradhapura - Vavuniya 132kV cct 01 tripped from Vavuniya end and tripped & A/R from New Anuradhapura end at 12:14hrs due to the operation of distance protection. The cct was normalized at 12:30hrs.
- 2) Athurugiriya - New Polpitiya - Thulhiriya 132kV cct tripped & A/R from all three ends at 13:46hrs due to the operation of distance protection.
- 3) Kukule Unit 02 tripped at 18:27hrs, rejecting 40MW from the system with an indication of governor oil tank pressure oil too low. Kukule Unit 02 resumed generation at 18:43hrs.
- 4) Kukule pond spilling stopped at

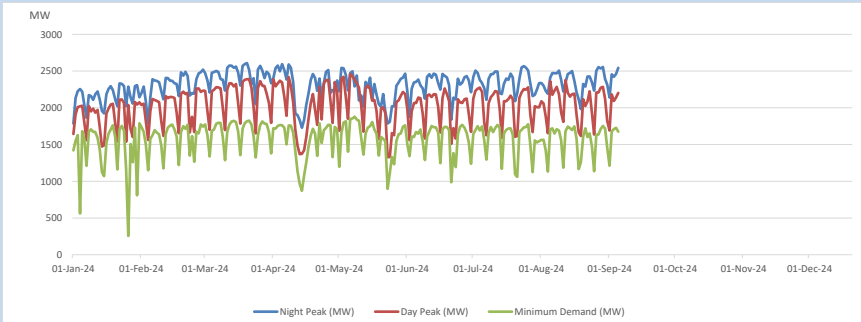
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



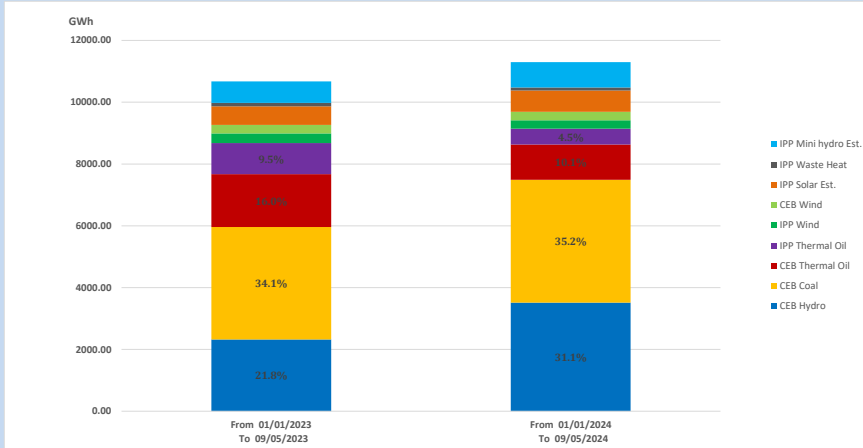
## 4. Variation of Demand during the current year



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 09/05/2023

10671 GWh

From 01/01/2024 To 09/03/2024

11297 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