

Generation and Reservoirs Statistics

September 25, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 25, 2024

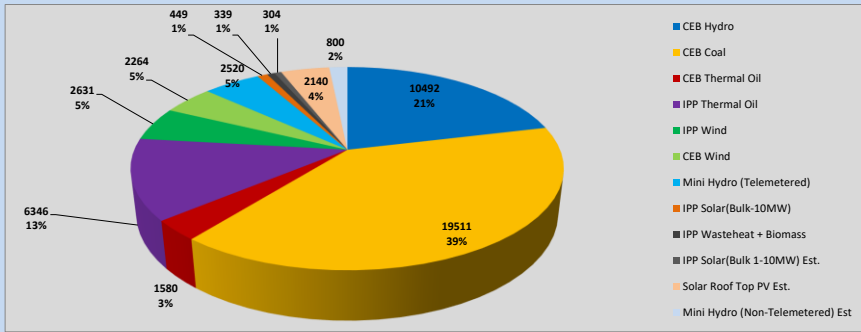


Table 01

	Generation (MWh)
CEB Hydro	10492
CEB Coal	19511
CEB Thermal Oil	1580
IPP Thermal Oil	6346
IPP Wind	2631
CEB Wind	2264
Mini Hydro (Telemetered)	2520
IPP Solar (Bulk)	449
IPP Waste heat + Biomass	339
Total Generation (Excluding estimated figures)	46,132
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	800
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	49,376

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	336	29.68%
CEB Coal	438	38.66%
CEB Thermal Oil	53	4.63%
IPP Thermal	29	2.58%
IPP Wind	59	5.24%
CEB Wind	50	4.45%
Mini Hydro *	89	7.85%
IPP Solar *	71	6.29%
IPP Waste heat + BMP	7	0.62%
Total	1,133	

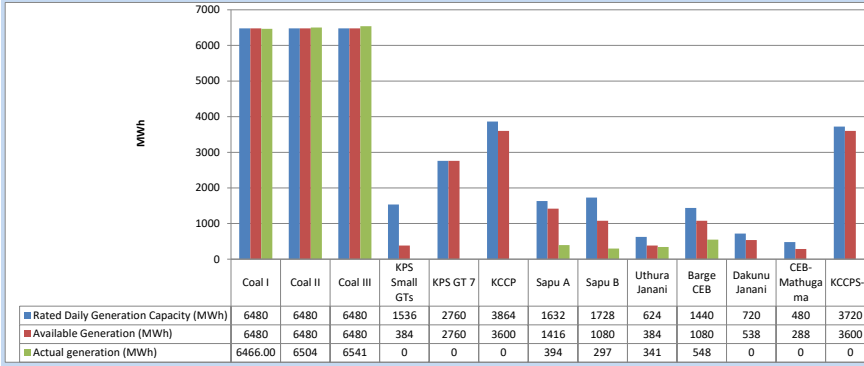
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,788	31.06%
CEB Coal	4,317	35.39%
CEB Thermal Oil	1,183	9.70%
IPP Thermal	538	4.41%
IPP Wind	322	2.64%
CEB Wind	316	2.59%
Mini Hydro *	883	7.24%
IPP Solar *	745	6.11%
IPP Waste heat	105	0.86%
Total	12,197	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 25, 2024

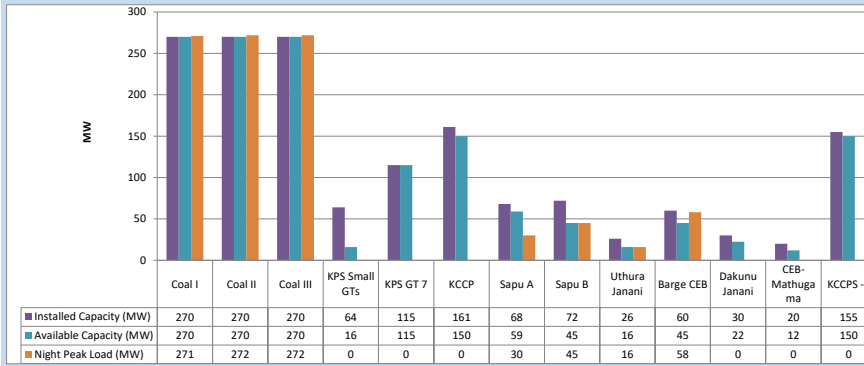


Available Generation is estimated based on plant availability at 6.00am on

September 26, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 25, 2024

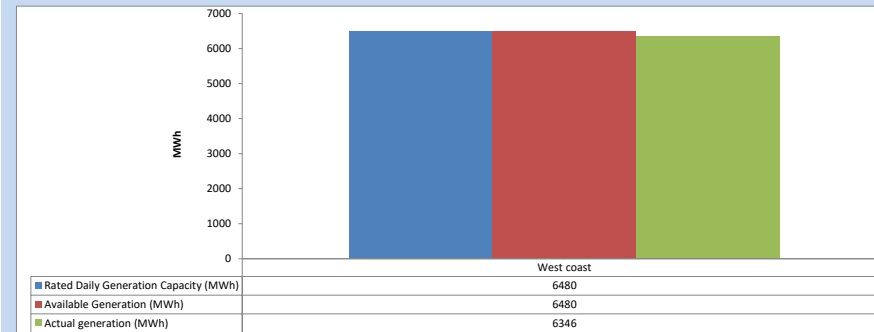


Plant availability is recorded at 6.00 am on

September 26, 2024

1.4 IPP owned Thermal Plant Dispatch

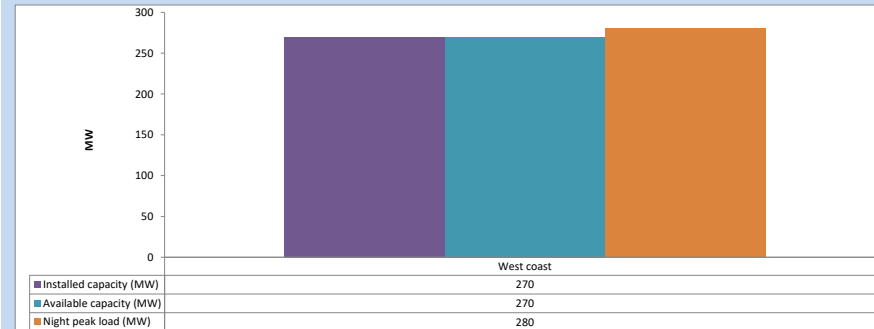
September 25, 2024



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

September 26, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

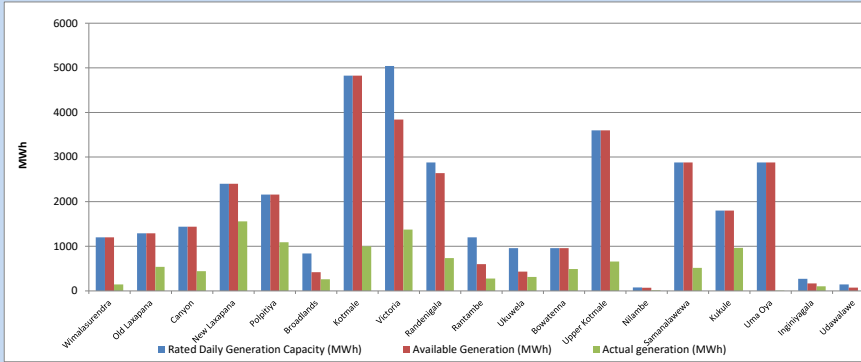


Plant availability is recorded at 6.00 am on

September 26, 2024

1.6 Major Hydro Plant Dispatch

September 25, 2024

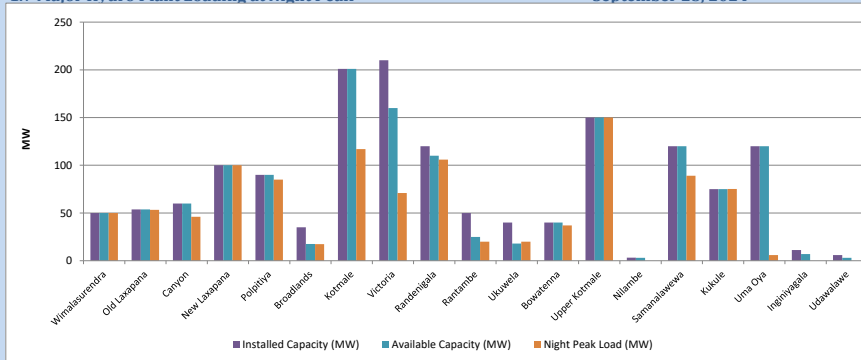


Available Generation is estimated based on plant availability at 6.00am on

September 26, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 25, 2024



Plant availability is recorded at 6.00 am on

September 26, 2024

1.8 Summary of Major Plant performance

September 25, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	144
Old Laxapana	54	54	53	540
Canyon	60	60	46	441
New Laxapana	100	100	100	1,560
Polpitiya	90	90	85	1,090
Broadlands	35	18	17	260
Kotmale	201	201	117	1,000
Victoria	210	160	71	1,374
Randenigala	120	110	106	737
Rantambe	50	25	20	279
Ukuwela	40	18	20	313
Bowatenna	40	40	37	492
Upper Kotmale	150	150	150	660
Nilambe	3	3	0	12
Samanalawewa	120	120	89	516
Kukule	75	75	75	966
Uma Oya	120	120	6	5
Inginiyagala	11	7	0	103
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	271	6,466
Puttalam Coal II	270	270	272	6,504
Puttalam Coal III	270	270	272	6,541
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	59	30	394
Sapugaskanda B	72	45	45	297
Uthura Janani	26	16	16	341
Barge CEB	60	45	58	548
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	280	6,346
Sobadhanavi	220	212	0	0
Total	3,606	3,114	2,614	46,132

Note-

Plant availability is the availability recorded at 6 am on

September 26, 2024

1.9 Contribution to the Night Peak in MW

September 25, 2024

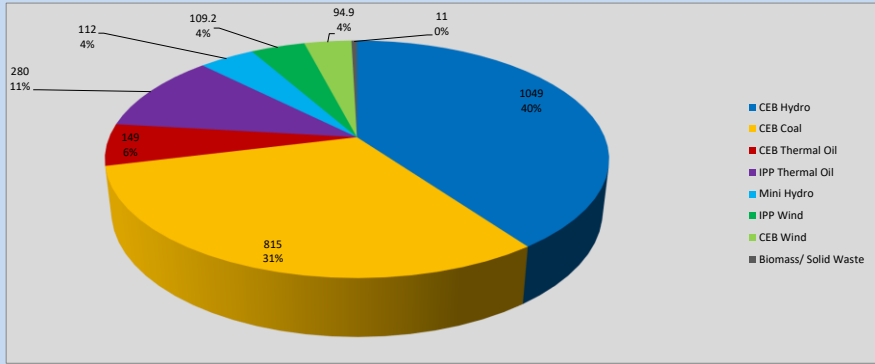


Table 05

CEB Hydro	1049	MW
CEB Coal	815	MW
CEB Thermal Oil	149	MW
IPP Thermal Oil	280	MW
Mini Hydro (Telemetered)	112	MW
IPP Wind	109.2	MW
CEB Wind	94.9	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

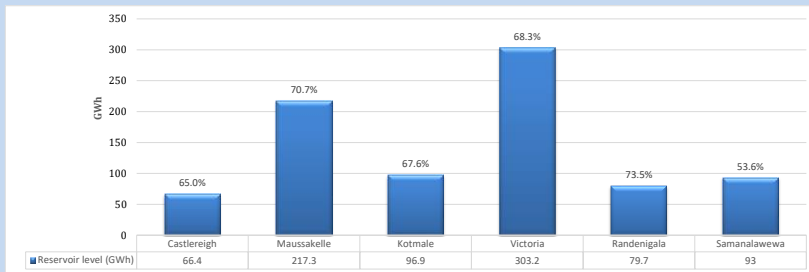
Table 06

Night Peak*	2,620	MW
Day Peak Maximum Demand	2,305	MW
Day Peak Minimum Demand	1,707	MW
Off Peak Minimum Demand	1,533	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 26, 2024



Total Reservoir Level 856.5 GWh
% of Total capacity 67.0%

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

September 25, 2024

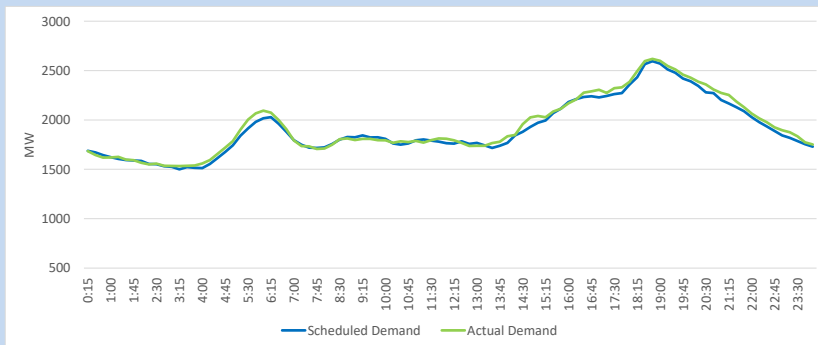
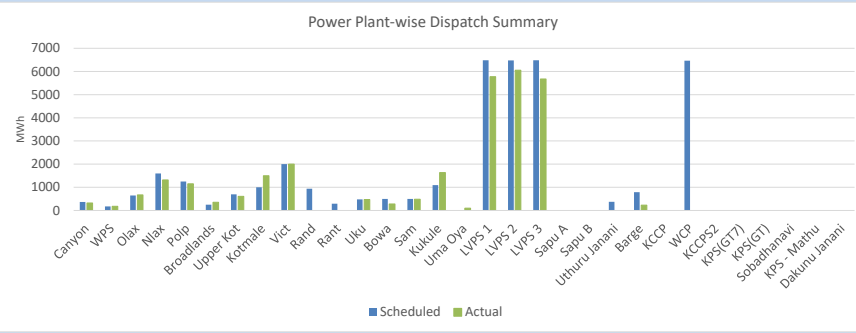


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,797	11,093	(704)
CEB Coal	19,439	17,502	(1,937)
CEB Thermal Oil	1,161	228	(933)
IPP Thermal Oil	6,464	-	(6,464)
NCRE (Telemetered)	6,918	8,249	1,331
Total	45,780	37,073	(8,707)

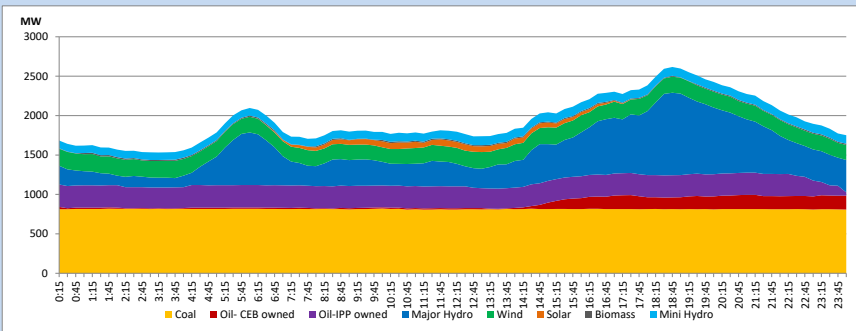
1.12 Power Plant-wise Dispatch Summary

September 25, 2024



1.13 Daily Load Curve

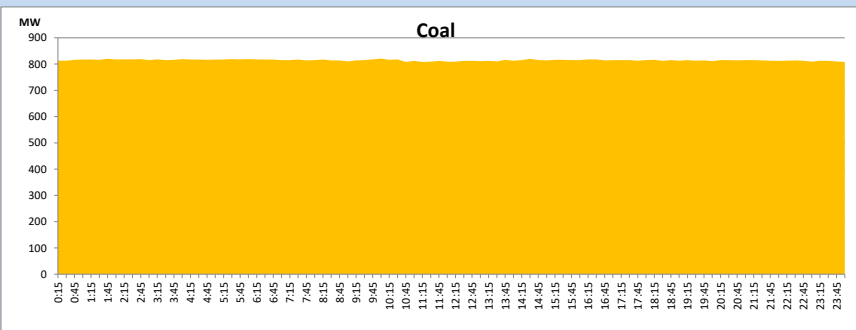
September 25, 2024



Solar and wind data is based on Telemetered Power Stations only

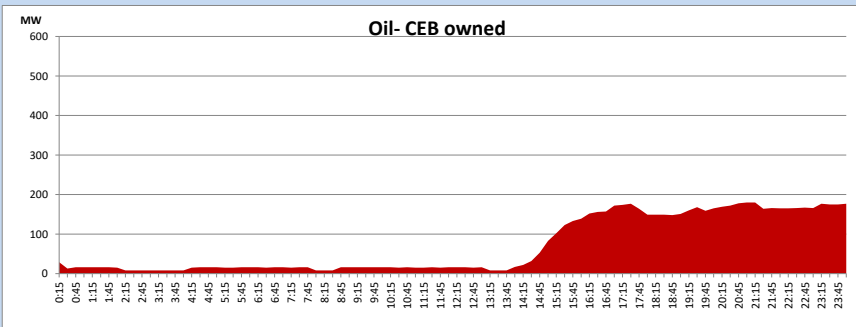
Coal Generation during

September 25, 2024

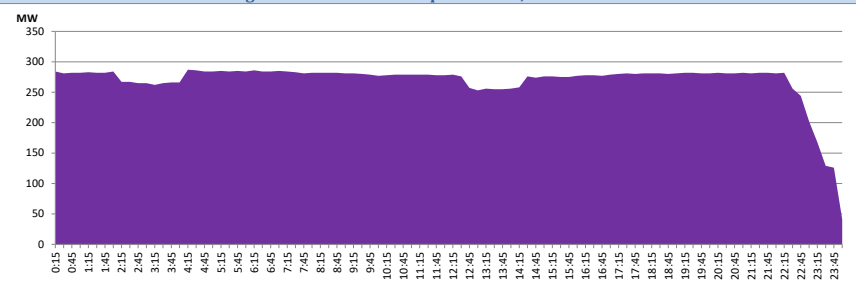


CEB Oil Plant Generation during

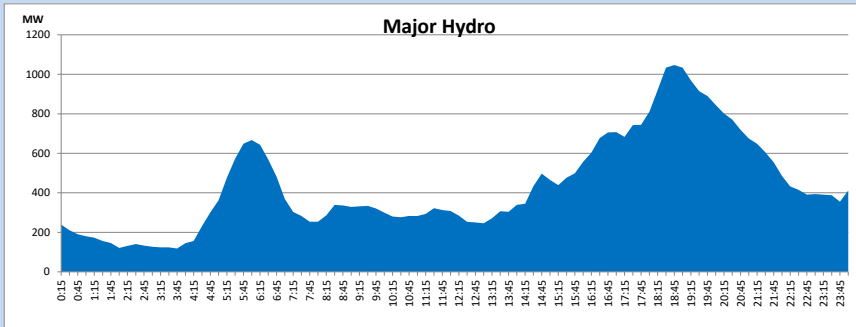
September 25, 2024



IPP Oil Plant Generation during September 25, 2024

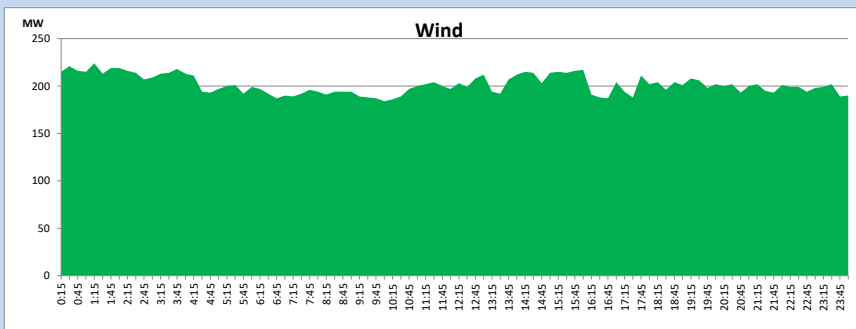


Major Hydro Generation during September 25, 2024



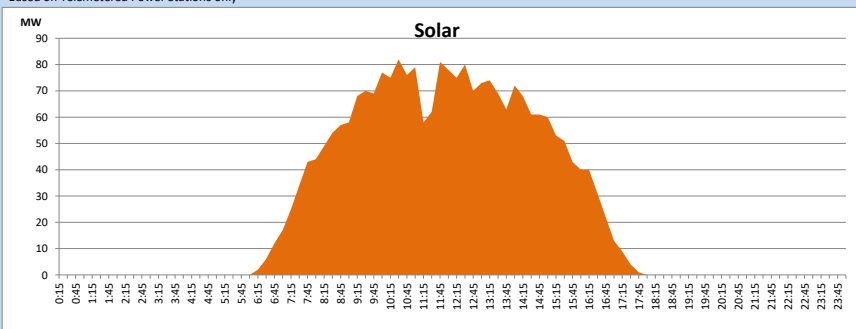
Wind Generation during September 25, 2024

Based on Telemetered Power Stations only



Solar Generation during September 25, 2024

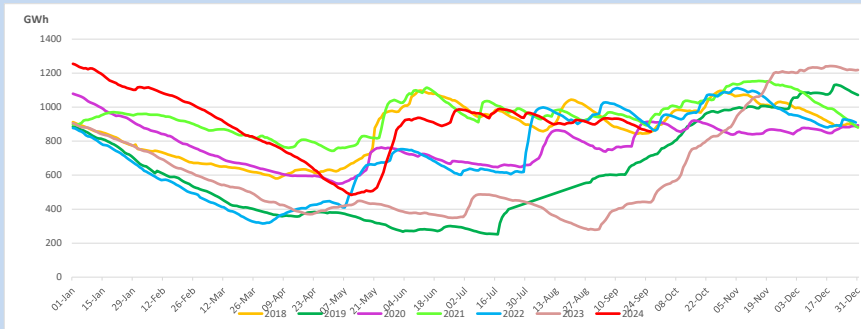
Based on Telemetered Power Stations only



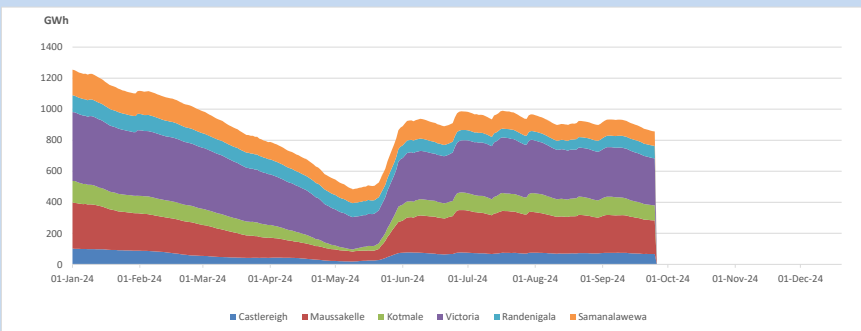
1.14 Major Incidents reported during the day September 25, 2024

- 1) Ukuwela unit 01 which was stopped to facilitate dead body search operation on 24.09.2024, resumed generation at 07:51hrs.
- 2) Ragala 132/33kV T/F 01 tripped from both ends at 03:17hrs (26.09.2024) due to the operation of REF protection. The T/F is yet to be normalized.

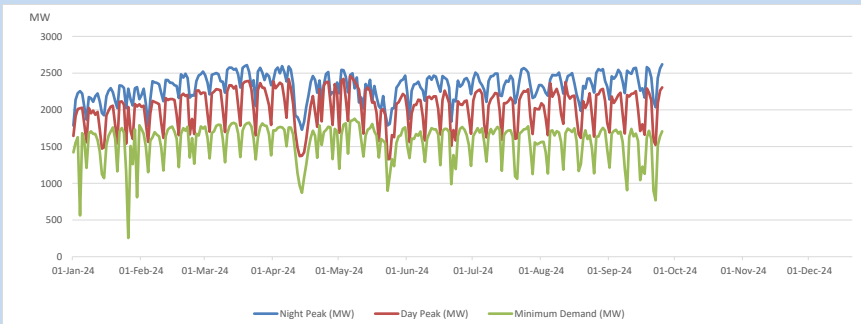
2. Comparison of Total Reservoir Storage Levels with Past Years



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

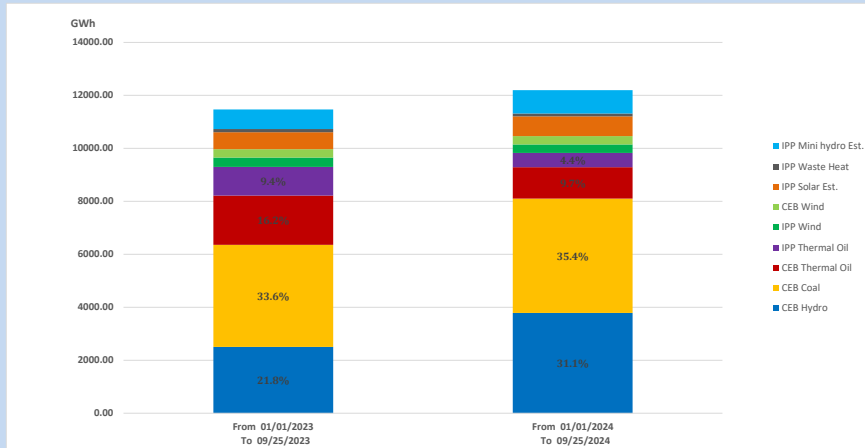


4. Variation of Demand during the current year



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 09/25/2023

11468 GWh

From 01/01/2024 To 09/25/2024

12197 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	1535
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	490
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