

Generation and Reservoirs Statistics

September 3, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 3, 2024

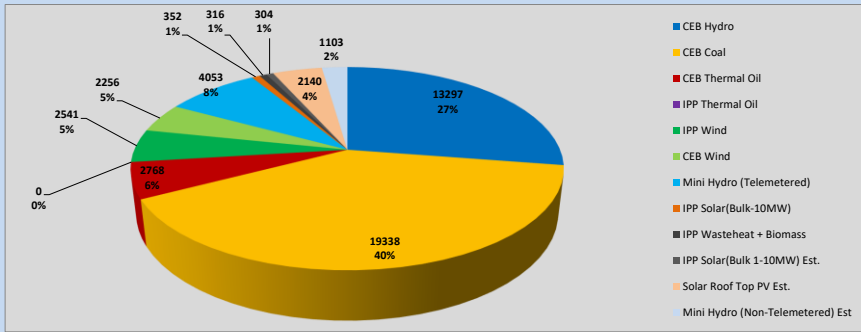


Table 01

	Generation (MWh)
CEB Hydro	13297
CEB Coal	19338
CEB Thermal Oil	2768
IPP Thermal Oil	0
IPP Wind	2541
CEB Wind	2256
Mini Hydro (Telemetered)	4053
IPP Solar (Bulk)	352
IPP Waste heat + Biomass	316
Total Generation (Excluding estimated figures)	44,921
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1103
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	48,468

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	37	27.31%
CEB Coal	56	40.72%
CEB Thermal Oil	5	3.66%
IPP Thermal	1	0.60%
IPP Wind	7	5.19%
CEB Wind	6	4.24%
Mini Hydro *	15	11.28%
IPP Solar *	9	6.23%
IPP Waste heat + BMP	1	0.76%
Total	137	

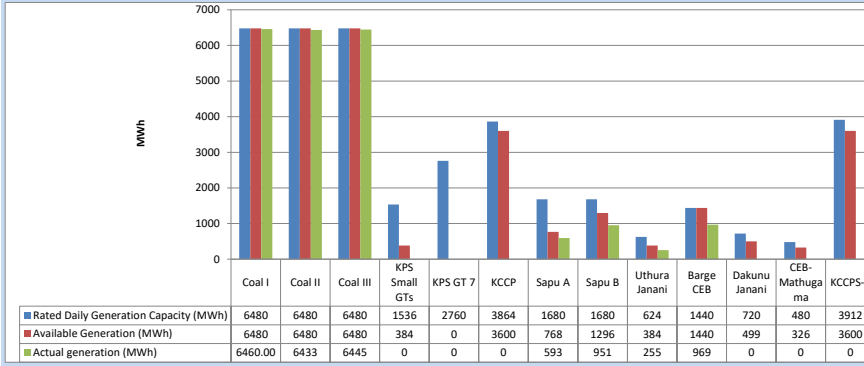
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,489	31.15%
CEB Coal	3,934	35.13%
CEB Thermal Oil	1,136	10.14%
IPP Thermal	510	4.55%
IPP Wind	270	2.41%
CEB Wind	271	2.42%
Mini Hydro *	809	7.22%
IPP Solar *	683	6.09%
IPP Waste heat	99	0.88%
Total	11,200	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 3, 2024

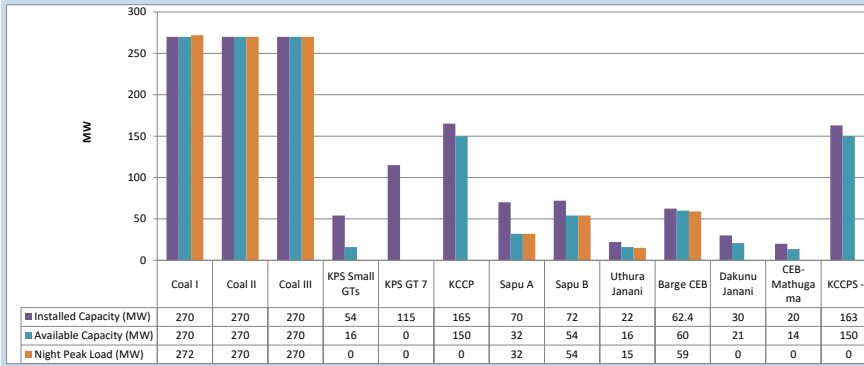


Available Generation is estimated based on plant availability at 6.00am on

September 4, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 3, 2024

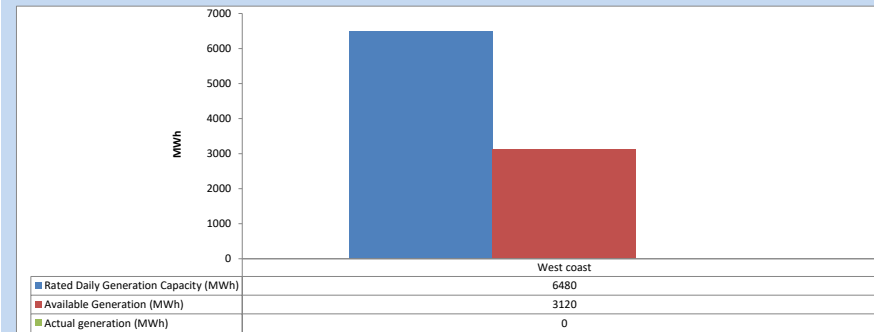


Plant availability is recorded at 6.00 am on

September 4, 2024

1.4 IPP owned Thermal Plant Dispatch

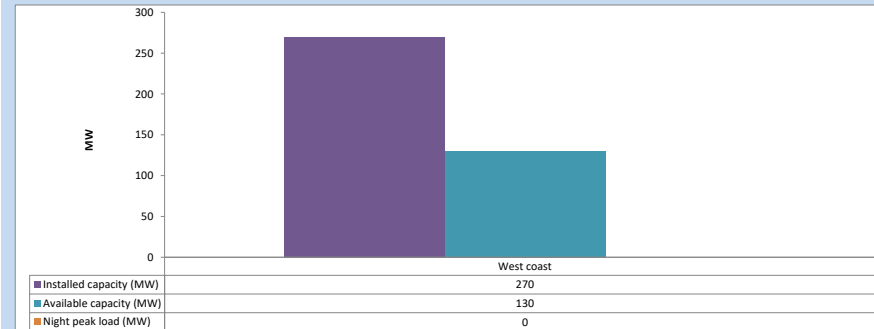
September 3, 2024



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

September 4, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

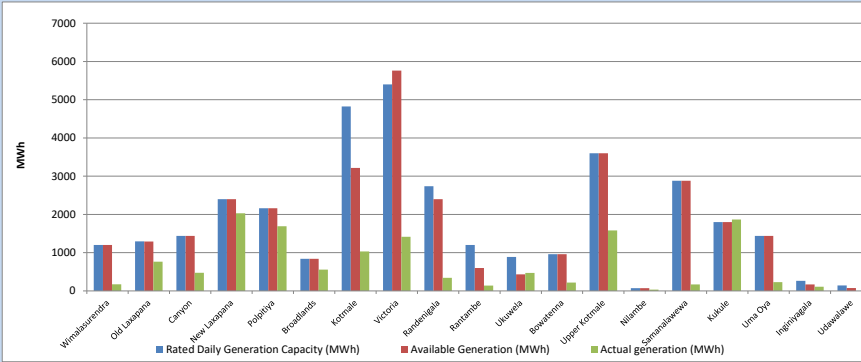


Plant availability is recorded at 6.00 am on

September 4, 2024

1.6 Major Hydro Plant Dispatch

September 3, 2024

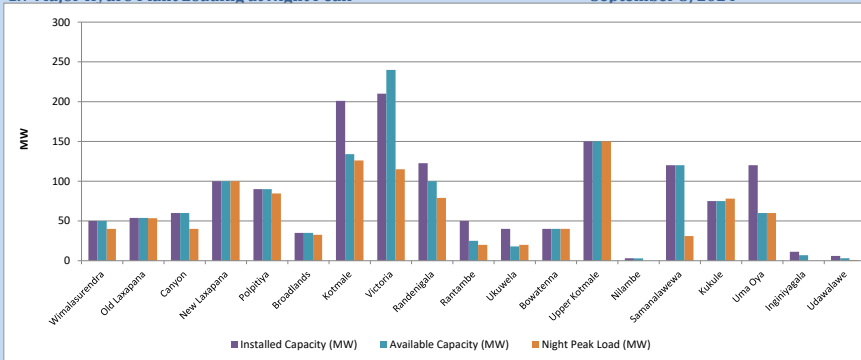


Available Generation is estimated based on plant availability at 6.00am on

September 4, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 3, 2024



Plant availability is recorded at 6.00 am on

September 4, 2024

1.8 Summary of Major Plant performance

September 3, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	173
Old Laxapana	54	54	54	764
Canyon	60	60	40	476
New Laxapana	100	100	100	2,031
Polpitiya	90	90	85	1,690
Broadlands	35	35	33	557
Kotmale	201	134	126	1,030
Victoria	210	240	115	1,417
Randenigala	123	100	79	342
Rantambe	50	25	20	141
Ukuwela	40	18	20	469
Bowatenna	40	40	40	220
Upper Kotmale	150	150	150	1,581
Nilambe	3	3	0	34
Samanalawewa	120	120	31	168
Kukule	75	75	78	1,867
Uma Oya	120	60	60	229
Inginiyagala	11	7	0	108
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	272	6,460
Puttalam Coal II	270	270	270	6,433
Puttalam Coal III	270	270	270	6,445
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	32	593
Sapugaskanda B	72	54	54	951
Uthura Janani	22	16	15	255
Barge CEB	62	60	59	969
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	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,816	2,417	44,921

Note-

Plant availability is the availability recorded at 6 am on

September 4, 2024

1.9 Contribution to the Night Peak in MW

September 3, 2024

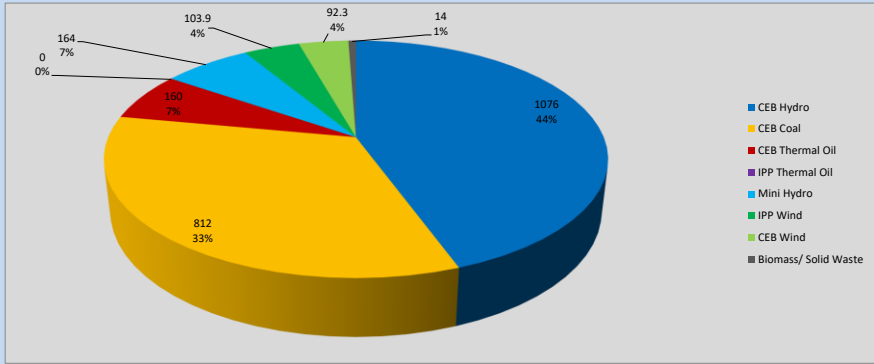


Table 05

CEB Hydro	1076	MW
CEB Coal	812	MW
CEB Thermal Oil	160	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	164	MW
IPP Wind	103.9	MW
CEB Wind	92.3	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

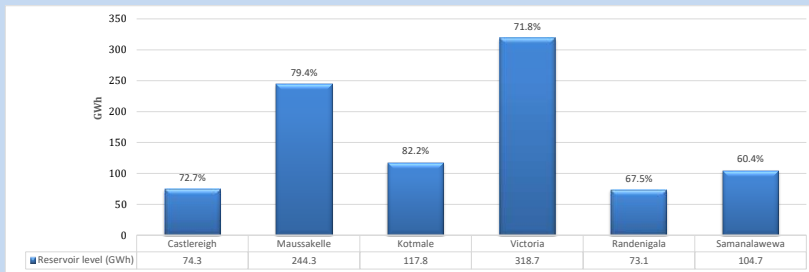
Table 06

Night Peak*	2,422	MW
Day Peak Maximum Demand	2,093	MW
Day Peak Minimum Demand	1,710	MW
Off Peak Minimum Demand	1,427	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 4, 2024



Total Reservoir Level
% of Total capacity

932.9 GWh
73.0%

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

September 3, 2024

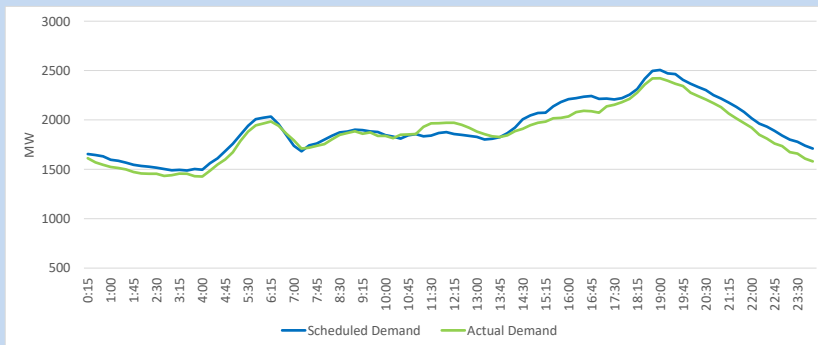
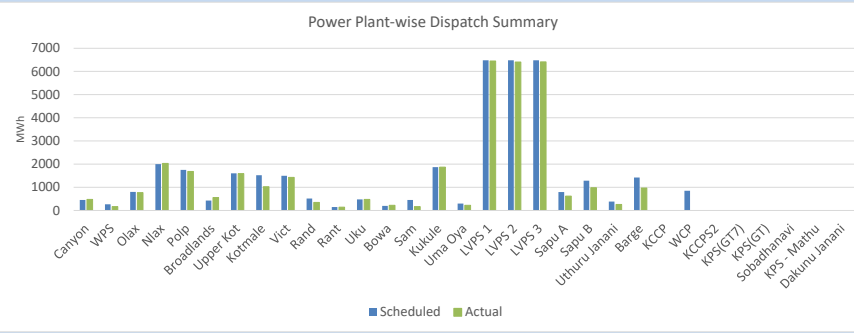


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,284	13,179	(1,106)
CEB Coal	19,440	19,274	(166)
CEB Thermal Oil	3,889	2,826	(1,064)
IPP Thermal Oil	850	-	(850)
NCRE (Telemetered)	7,607	9,563	1,956
Total	46,071	44,842	-1230

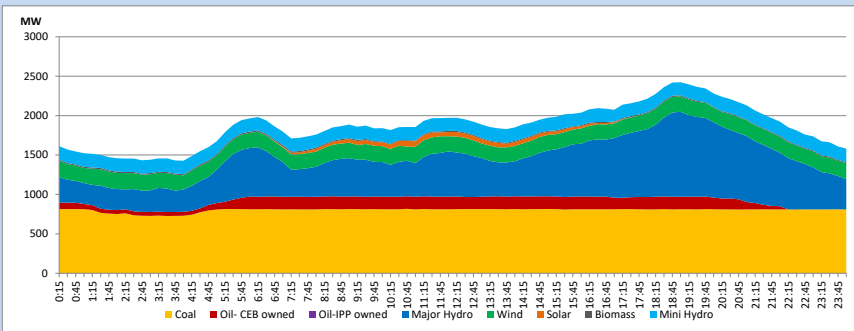
1.12 Power Plant-wise Dispatch Summary

September 3, 2024



1.13 Daily Load Curve

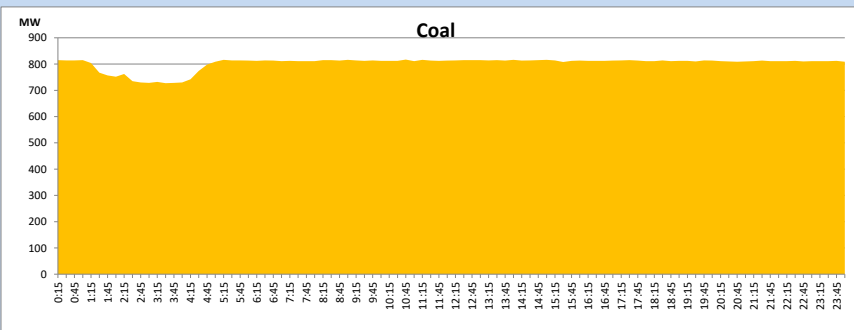
September 3, 2024



Solar and wind data is based on Telemetered Power Stations only

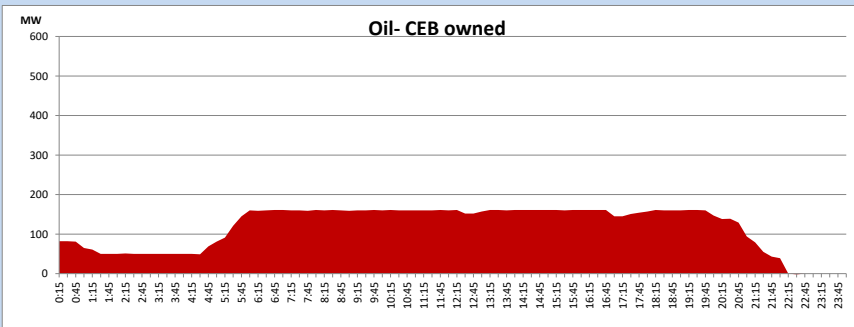
Coal Generation during

September 3, 2024

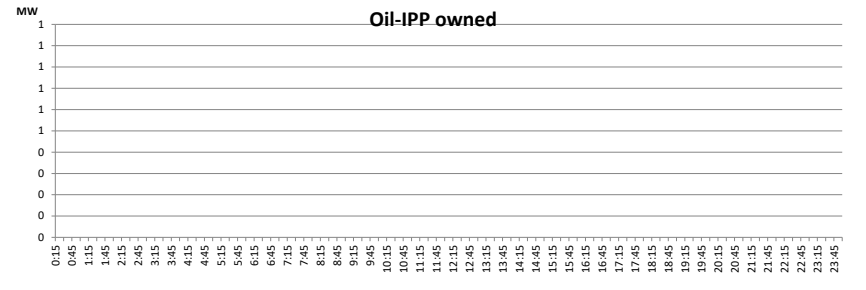


CEB Oil Plant Generation during

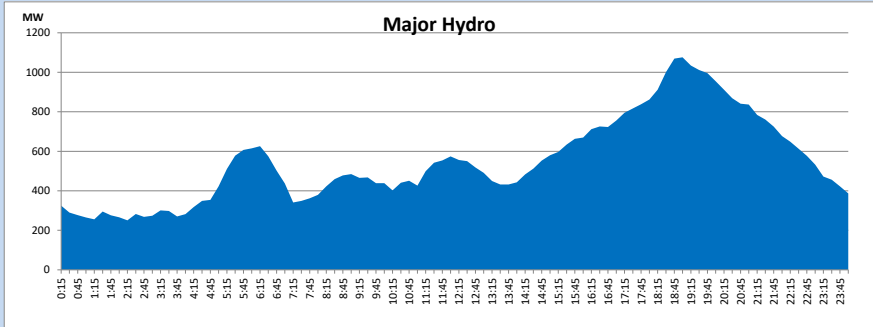
September 3, 2024



IPP Oil Plant Generation during September 3, 2024

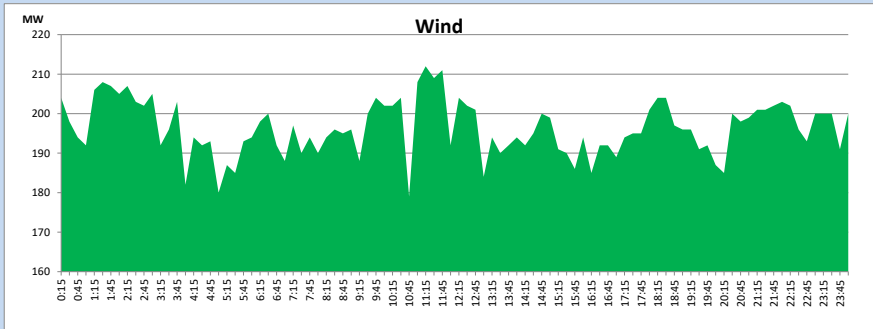


Major Hydro Generation during September 3, 2024



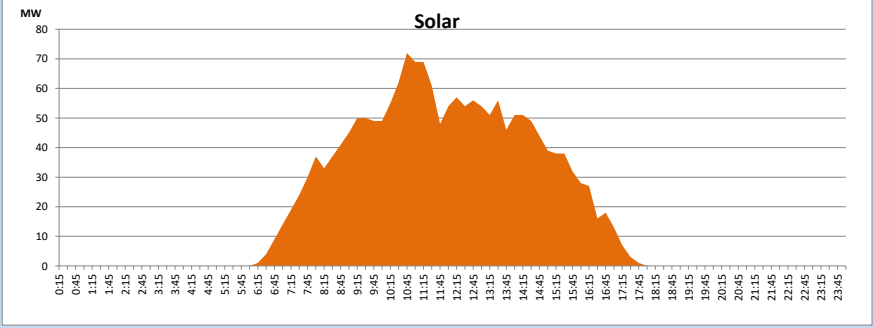
Wind Generation during September 3, 2024

Based on Telemetered Power Stations only



Solar Generation during September 3, 2024

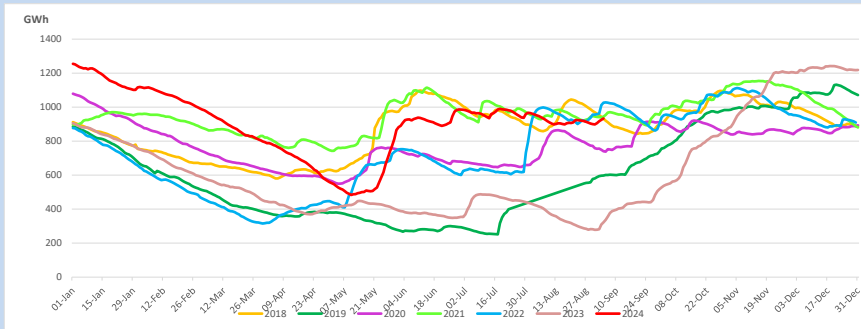
Based on Telemetered Power Stations only



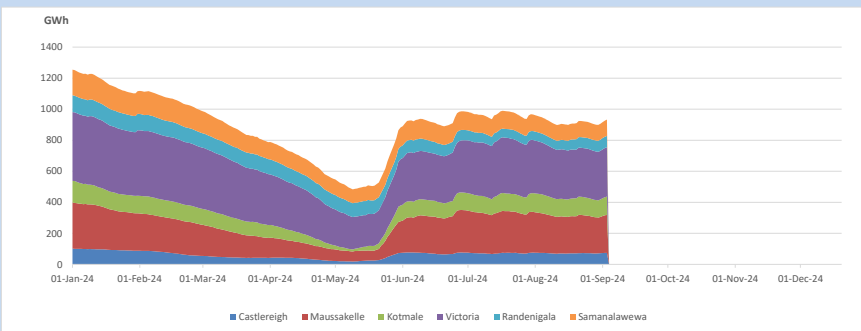
1.14 Major Incidents reported during the day September 3, 2024

- 1) Kukule pond spilling continues to the present hour.
- 2) Horana - Kesbewa - Panadura 132kV cct tripped and A/R from all ends at 7:54hrs due to the operation of Differential protection.
- 3) Kolonnawa - Kosgama 132kV cct manually switched off from both ends at 8:00hrs due to the presence of an arc. Kolonnawa - Kosgama 132kV cct restored at 12:31hrs.
- 4) Monaragala 132/33kV T/F 02 tripped from both ends at 9:43hrs due to trip coil faulty. Monaragala 132/33kV T/F 02 restored at 10:38hrs.

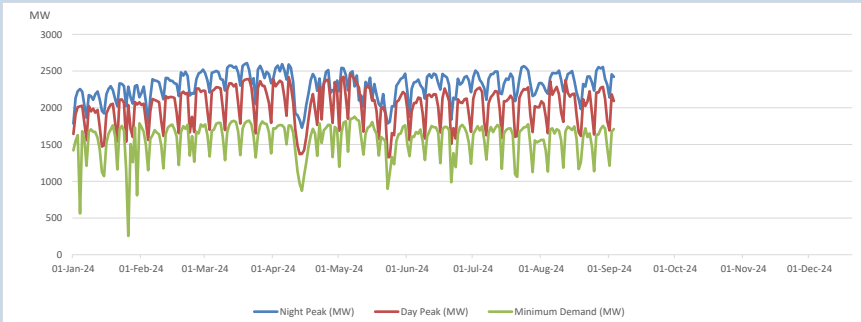
2. Comparison of Total Reservoir Storage Levels with Past Years



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

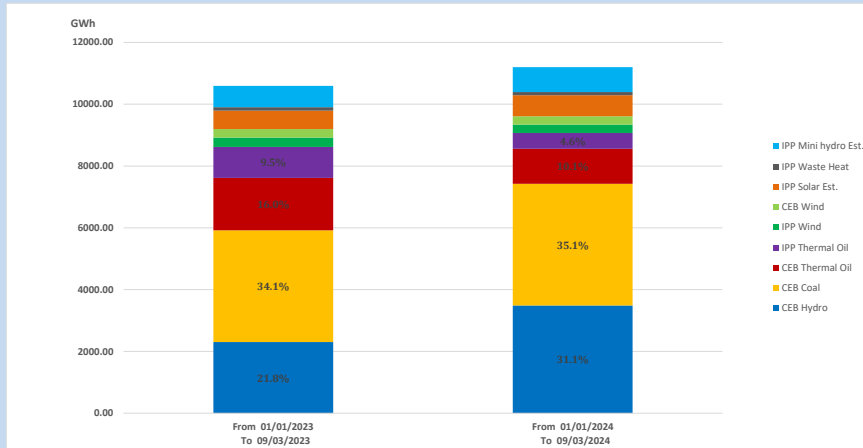


4. Variation of Demand during the current year



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 09/03/2023 **10592 GWh**
 From 01/01/2024 To 09/03/2024 **11200 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