

Generation and Reservoirs Statistics

September 30, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 30, 2024

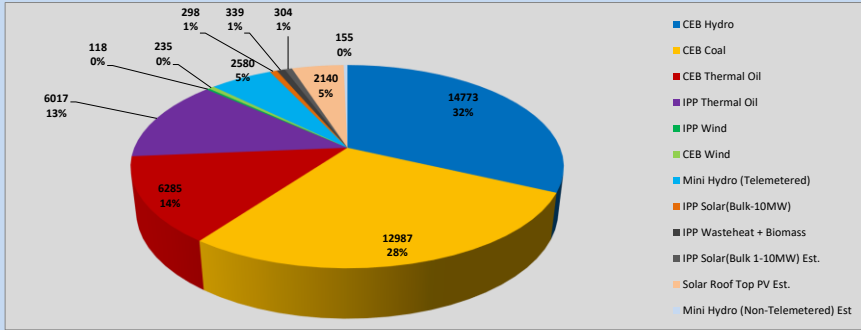


Table 01

	Generation (MWh)
CEB Hydro	14773
CEB Coal	12987
CEB Thermal Oil	6285
IPP Thermal Oil	6017
IPP Wind	118
CEB Wind	235
Mini Hydro (Telemetered)	2580
IPP Solar (Bulk)	298
IPP Waste heat + Biomass	339
Total Generation (Excluding estimated figures)	43,632
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	155
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	46,231

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	403	29.57%
CEB Coal	522	38.28%
CEB Thermal Oil	71	5.19%
IPP Thermal	54	3.95%
IPP Wind	62	4.57%
CEB Wind	53	3.91%
Mini Hydro *	104	7.65%
IPP Solar *	85	6.25%
IPP Waste heat + BMP	9	0.63%
Total	1,364	

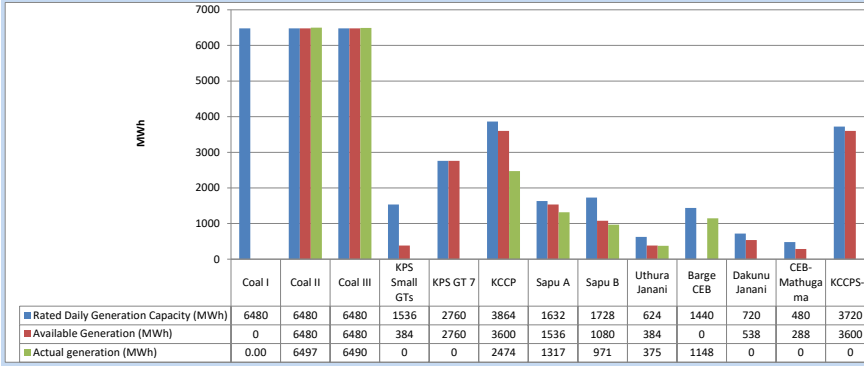
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,853	30.98%
CEB Coal	4,401	35.38%
CEB Thermal Oil	1,201	9.66%
IPP Thermal	563	4.52%
IPP Wind	311	2.50%
CEB Wind	318	2.56%
Mini Hydro *	930	7.47%
IPP Solar *	746	6.00%
IPP Waste heat	114	0.92%
Total	12,437	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 30, 2024

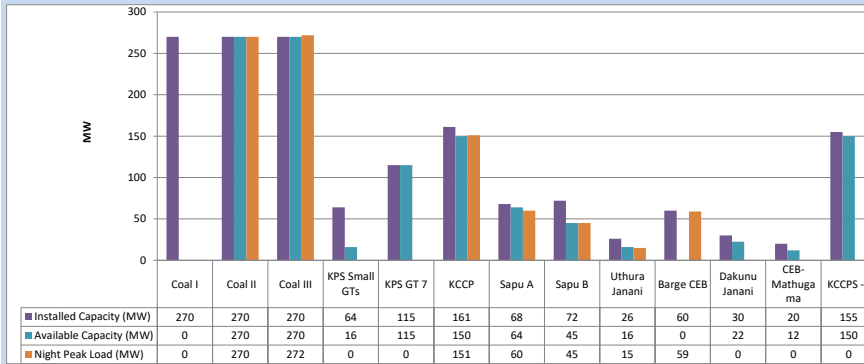


Available Generation is estimated based on plant availability at 6.00am on

October 1, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 30, 2024

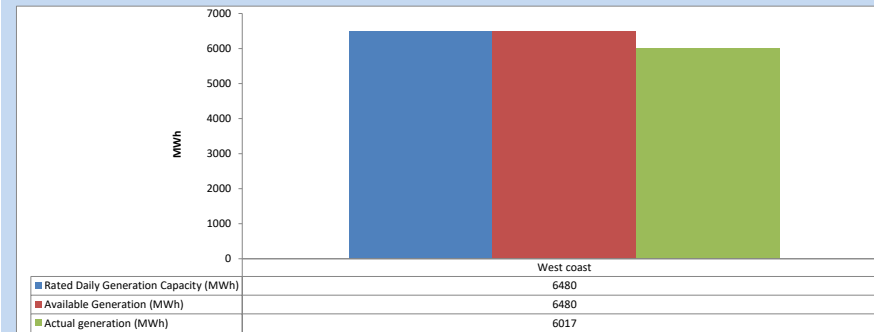


Plant availability is recorded at 6.00 am on

October 1, 2024

1.4 IPP owned Thermal Plant Dispatch

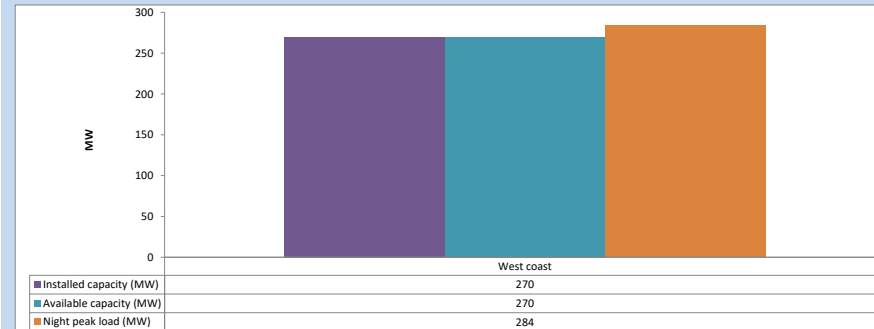
September 30, 2024



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

October 1, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

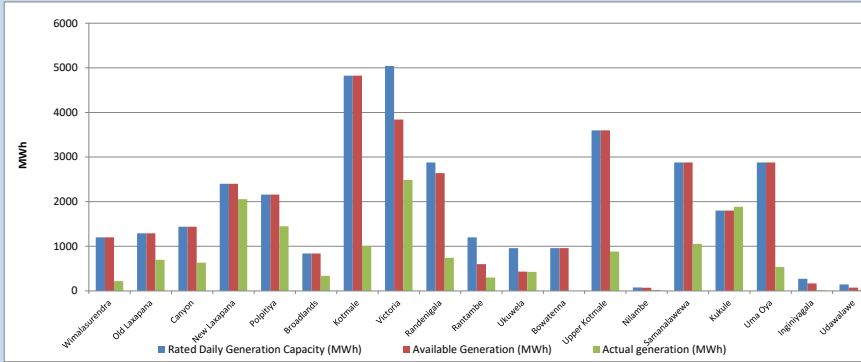


Plant availability is recorded at 6.00 am on

October 1, 2024

1.6 Major Hydro Plant Dispatch

September 30, 2024

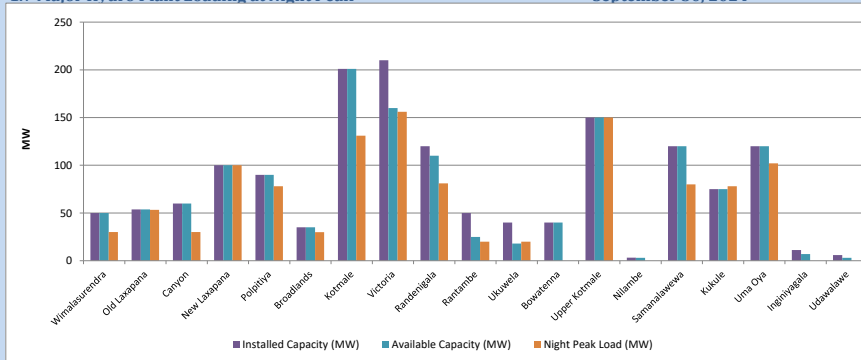


Available Generation is estimated based on plant availability at 6.00am on

October 1, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 30, 2024



Plant availability is recorded at 6.00 am on

October 1, 2024

1.8 Summary of Major Plant performance

September 30, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	220
Old Laxapana	54	54	53	697
Canyon	60	60	30	634
New Laxapana	100	100	100	2,057
Polpitiya	90	90	78	1,450
Broadlands	35	35	30	338
Kotmale	201	201	131	1,010
Victoria	210	160	156	2,487
Randenigala	120	110	81	744
Rantambe	50	25	20	300
Ukuwela	40	18	20	427
Bowatenna	40	40	0	0
Upper Kotmale	150	150	150	882
Nilambe	3	3	0	22
Samanalawewa	120	120	80	1,057
Kukule	75	75	78	1,886
Uma Oya	120	120	102	535
Inginiyagala	11	7	0	14
Udawalawe	6	3	0	15
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,497
Puttalam Coal III	270	270	272	6,490
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	151	2,474
Sapugaskanda A	68	64	60	1,317
Sapugaskanda B	72	45	45	971
Uthura Janani	26	16	15	375
Barge CEB	60	0	59	1,148
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	284	6,017
Sobadhanavi	220	212	0	0
Total	3,606	2,821	2,440	43,634

Note-

Plant availability is the availability recorded at 6 am on

October 1, 2024

1.9 Contribution to the Night Peak in MW

September 30, 2024

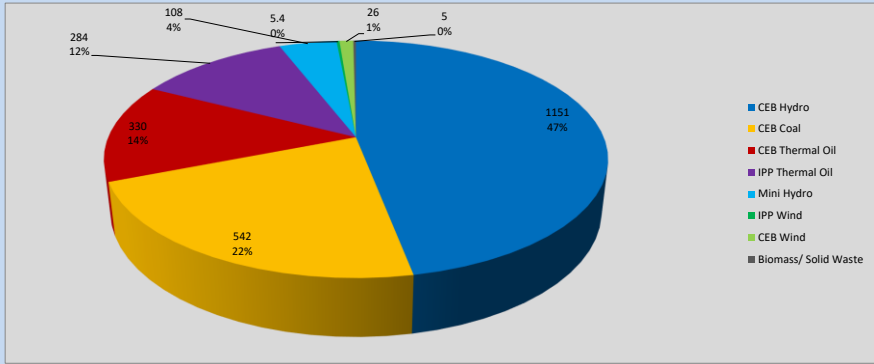


Table 05

CEB Hydro	1151	MW
CEB Coal	542	MW
CEB Thermal Oil	330	MW
IPP Thermal Oil	284	MW
Mini Hydro (Telemetered)	108	MW
IPP Wind	5.4	MW
CEB Wind	26	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

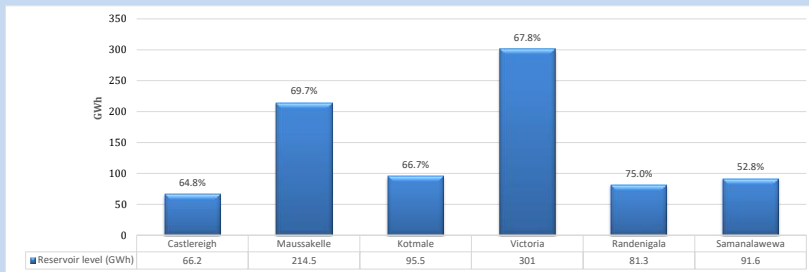
Table 06

Night Peak*	2,452	MW
Day Peak Maximum Demand	2,180	MW
Day Peak Minimum Demand	1,661	MW
Off Peak Minimum Demand	1,339	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 October 1, 2024



Total Reservoir Level
% of Total capacity

850.1 GWh
66.5%

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

September 30, 2024

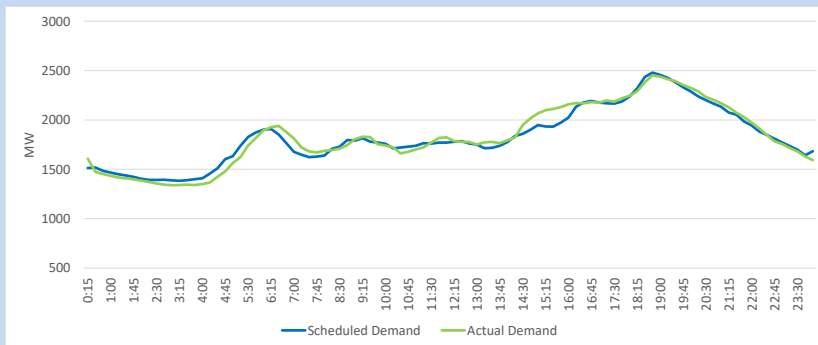
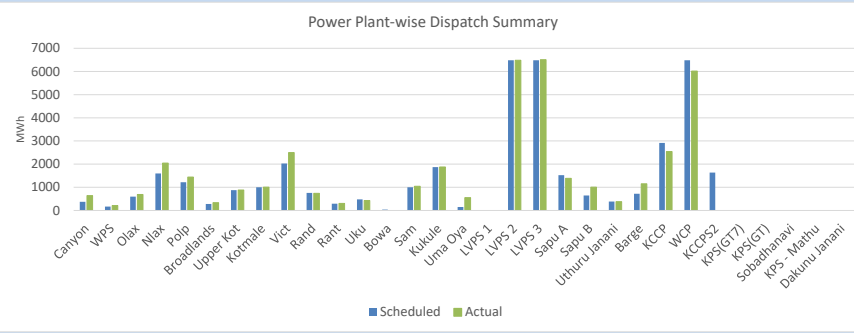


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,740	14,712	1,971
CEB Coal	12,960	12,989	29
CEB Thermal Oil	7,824	6,472	(1,352)
IPP Thermal Oil	6,480	6,017	(463)
NCRE (Telemetered)	3,771	3,616	(155)
Total	43,776	43,805	29

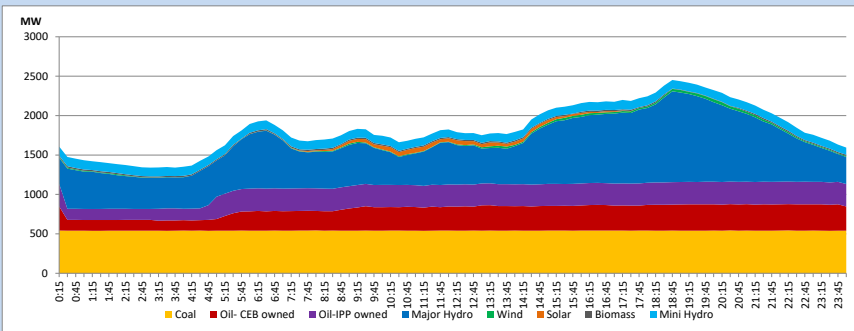
1.12 Power Plant-wise Dispatch Summary

September 30, 2024



1.13 Daily Load Curve

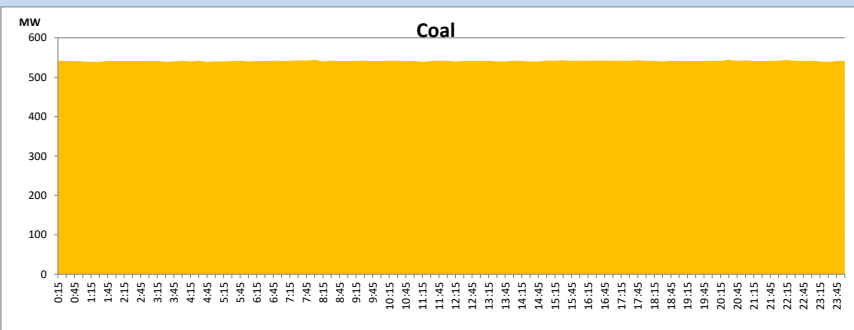
September 30, 2024



Solar and wind data is based on Telemetered Power Stations only

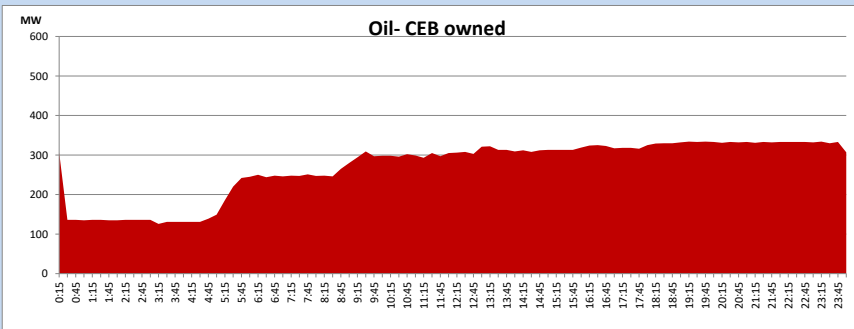
Coal Generation during

September 30, 2024

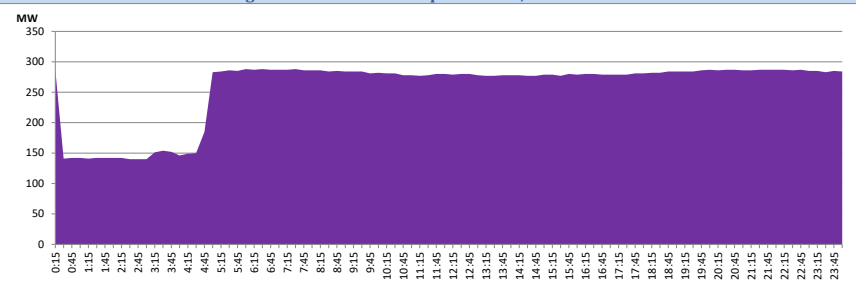


CEB Oil Plant Generation during

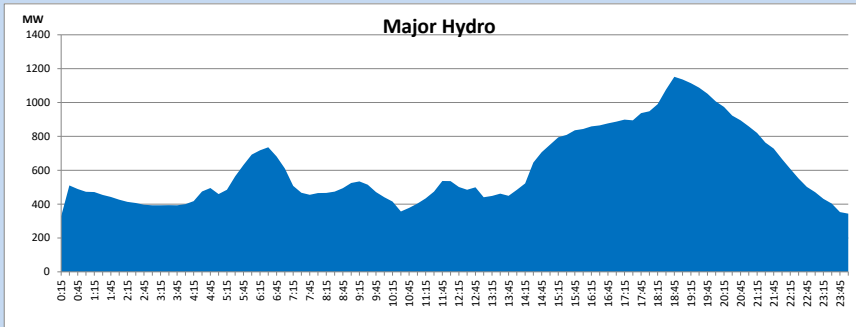
September 30, 2024



IPP Oil Plant Generation during September 30, 2024

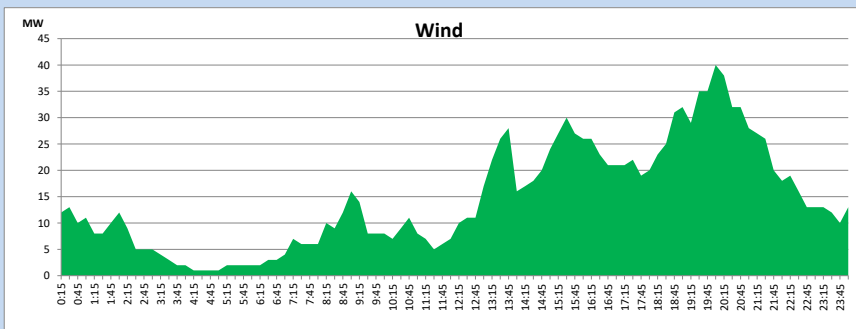


Major Hydro Generation during September 30, 2024



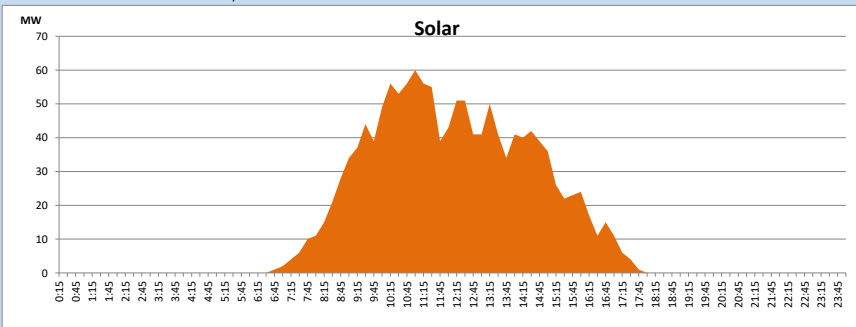
Wind Generation during September 30, 2024

Based on Telemetered Power Stations only



Solar Generation during September 30, 2024

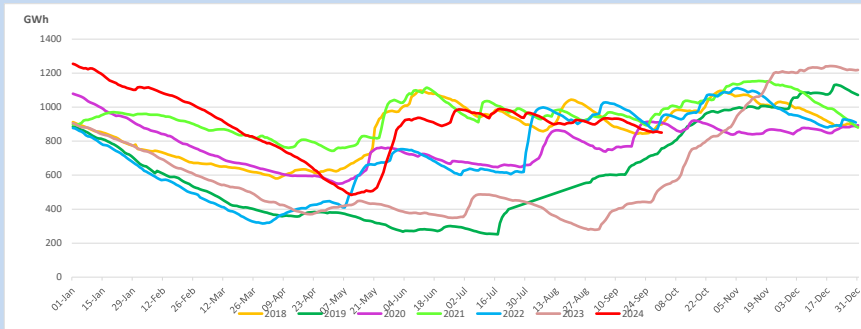
Based on Telemetered Power Stations only



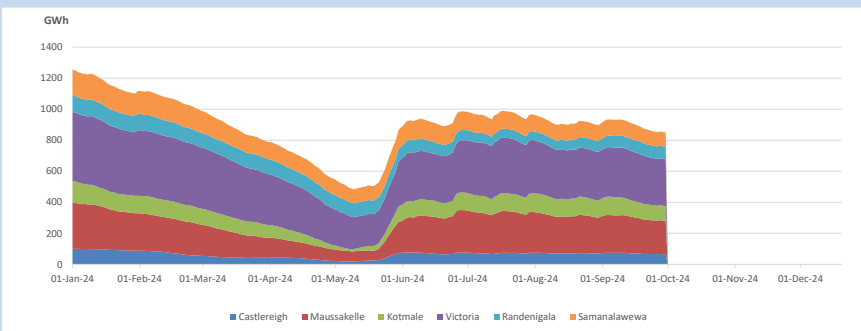
1.14 Major Incidents reported during the day September 30, 2024

1) Kiribathkubura - Kurunegala 132kV cct 01 tripped from both ends & cct 02 tripped and A/R from Both ends at 14:26hrs due to the operation of distance protection. Kiribathkubura - Kurunegala 132kV cct 01 was restored at 14:49hrs.

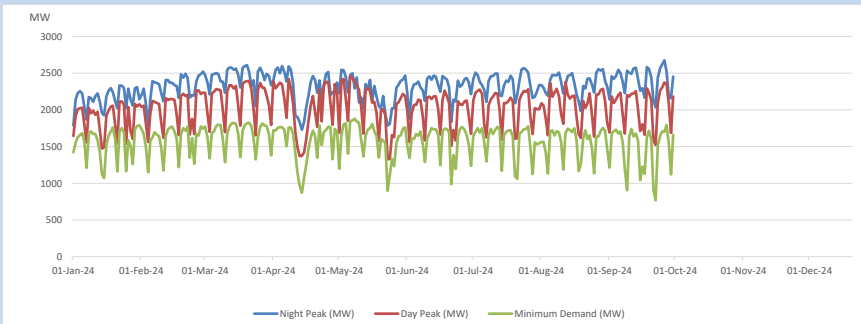
2. Comparison of Total Reservoir Storage Levels with Past Years



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

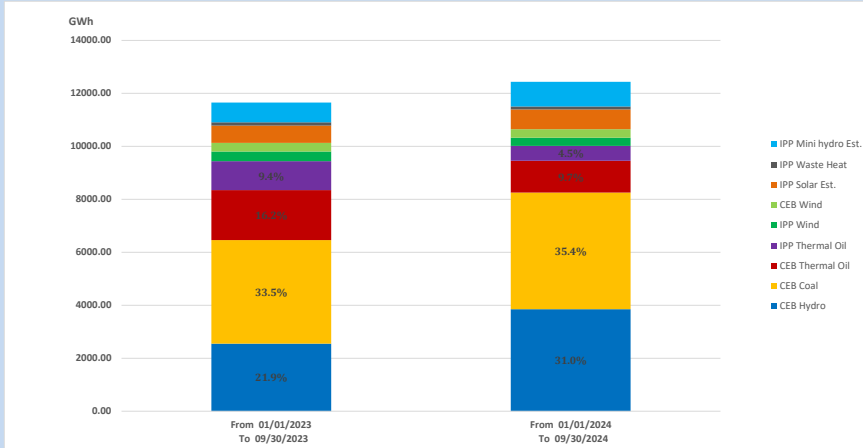


4. Variation of Demand during the current year



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 09/30/2023

11654 GWh

From 01/01/2024 To 09/30/2024

12437 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