

Generation and Reservoirs Statistics

October 1, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 1, 2024

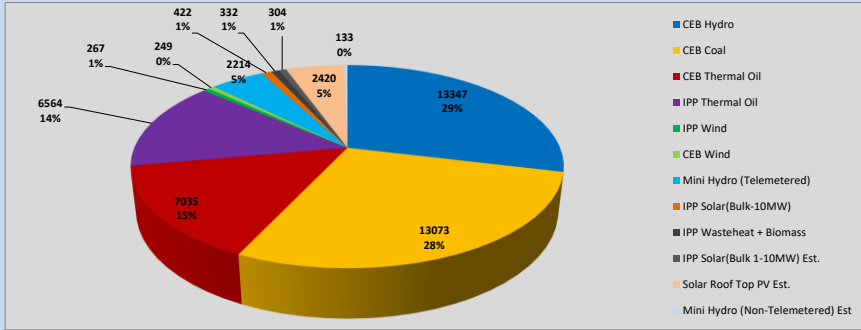


Table 01

	Generation (MWh)
CEB Hydro	13347
CEB Coal	13073
CEB Thermal Oil	7035
IPP Thermal Oil	6564
IPP Wind	267
CEB Wind	249
Mini Hydro (Telemetered)	2214
IPP Solar (Bulk)	422
IPP Waste heat + Biomass	332
Total Generation (Excluding estimated figures)	43,503
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	133
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	46,360

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	13	28.81%
CEB Coal	13	28.20%
CEB Thermal Oil	7	15.17%
IPP Thermal	7	14.16%
IPP Wind	0	0.58%
CEB Wind	0	0.54%
Mini Hydro *	2	5.05%
IPP Solar *	3	6.78%
IPP Waste heat + BMP	0	0.71%
Total	46	

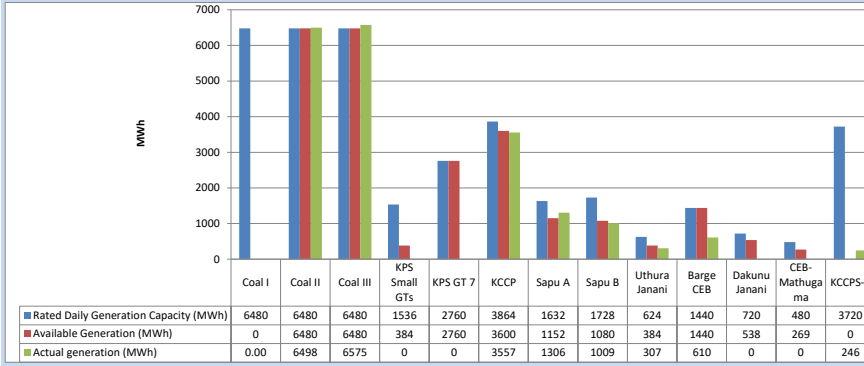
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,867	30.97%
CEB Coal	4,414	35.35%
CEB Thermal Oil	1,208	9.68%
IPP Thermal	569	4.56%
IPP Wind	312	2.50%
CEB Wind	318	2.55%
Mini Hydro *	932	7.47%
IPP Solar *	749	6.00%
IPP Waste heat	115	0.92%
Total	12,484	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 1, 2024

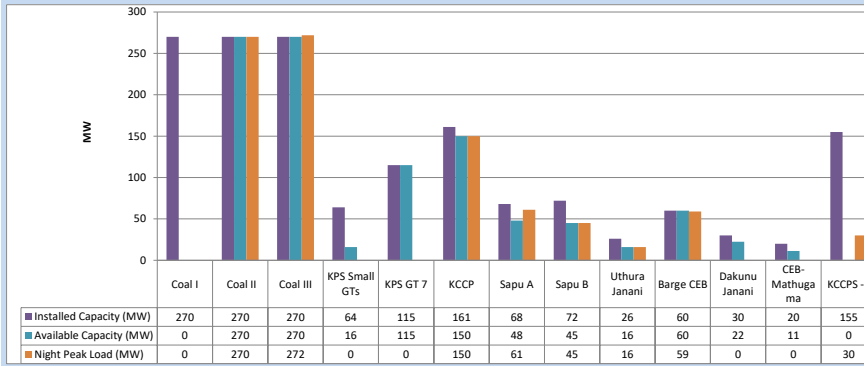


Available Generation is estimated based on plant availability at 6.00am on

October 2, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 1, 2024

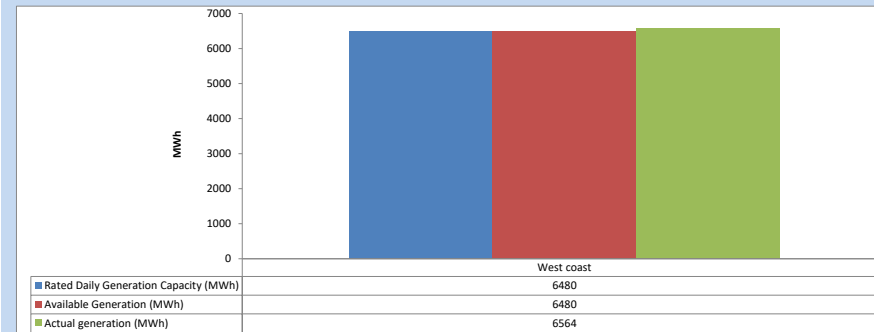


Plant availability is recorded at 6.00 am on

October 2, 2024

1.4 IPP owned Thermal Plant Dispatch

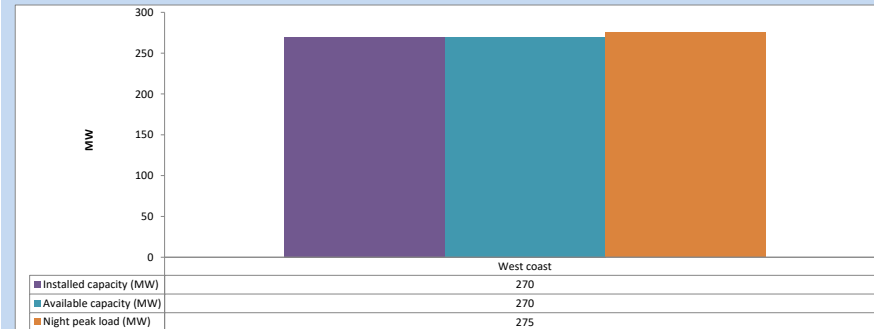
October 1, 2024



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

October 2, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

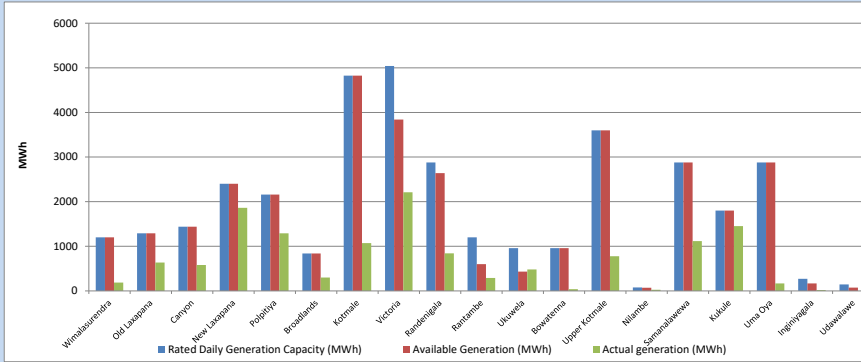


Plant availability is recorded at 6.00 am on

October 2, 2024

1.6 Major Hydro Plant Dispatch

October 1, 2024

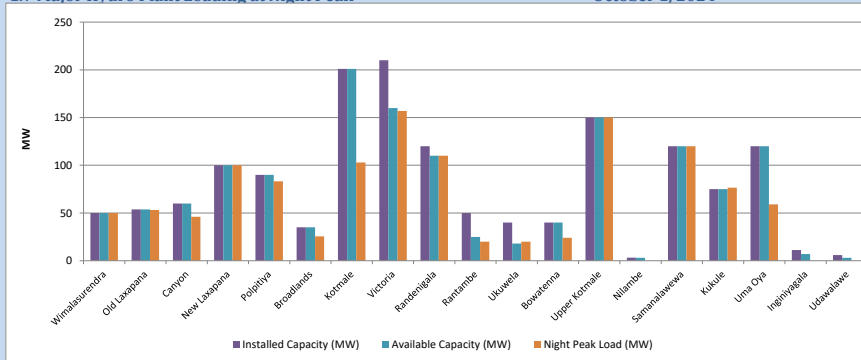


Available Generation is estimated based on plant availability at 6.00am on

October 2, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 1, 2024



Plant availability is recorded at 6.00 am on

October 2, 2024

1.8 Summary of Major Plant performance

October 1, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	186
Old Laxapana	54	54	53	636
Canyon	60	60	46	580
New Laxapana	100	100	100	1,861
Polpitiya	90	90	83	1,290
Broadlands	35	35	26	300
Kotmale	201	201	103	1,070
Victoria	210	160	157	2,210
Randeniigala	120	110	110	842
Rantambe	50	25	20	290
Ukuwela	40	18	20	482
Bowatenna	40	40	24	39
Upper Kotmale	150	150	150	779
Nilambe	3	3	0	26
Samanalawewa	120	120	120	1,116
Kukule	75	75	77	1,453
Uma Oya	120	120	59	167
Inginiyagala	11	7	0	20
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,498
Puttalam Coal III	270	270	272	6,575
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,557
Sapugaskanda A	68	48	61	1,306
Sapugaskanda B	72	45	45	1,009
Uthura Janani	26	16	16	307
Barge CEB	60	60	59	610
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	11	0	0
KCCPS -2	155	0	30	246
West Coast	270	270	275	6,564
Sobadhanavi	220	212	0	0
Total	3,606	2,715	2,515	43,503

Note-

Plant availability is the availability recorded at 6 am on

October 2, 2024

1.9 Contribution to the Night Peak in MW

October 1, 2024

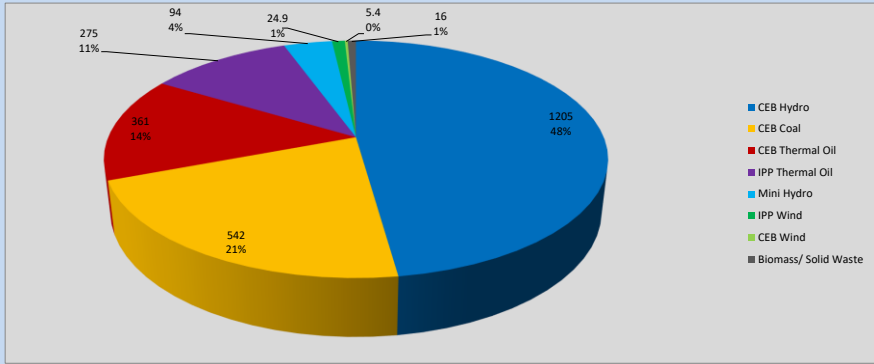


Table 05

CEB Hydro	1205	MW
CEB Coal	542	MW
CEB Thermal Oil	361	MW
IPP Thermal Oil	275	MW
Mini Hydro (Telemetered)	94	MW
IPP Wind	24.9	MW
CEB Wind	5.4	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

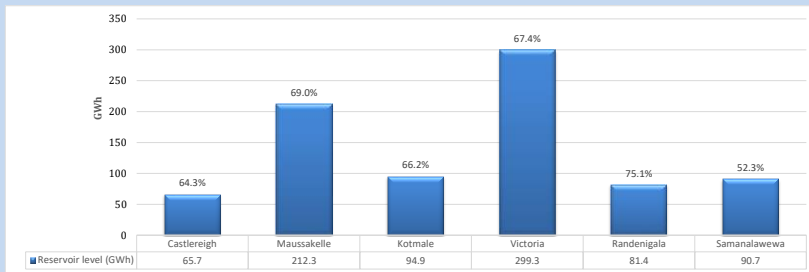
Table 06

Night Peak*	2,523	MW
Day Peak Maximum Demand	2,269	MW
Day Peak Minimum Demand	1,552	MW
Off Peak Minimum Demand	1,403	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 2, 2024



Total Reservoir Level
844.3 GWh
% of Total capacity
66.0%

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

October 1, 2024

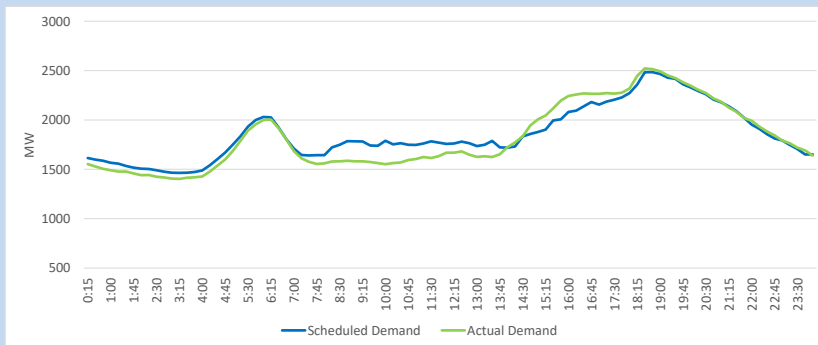
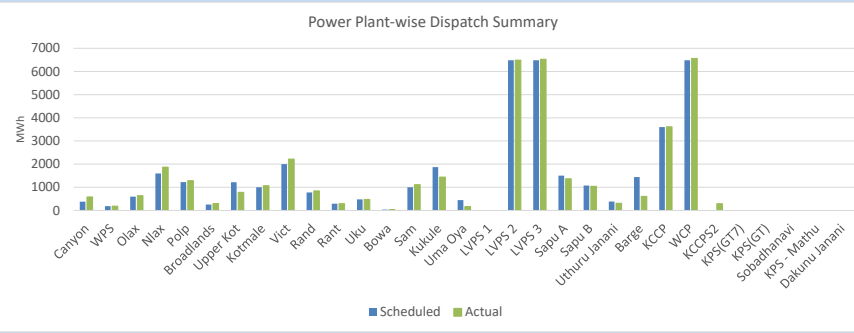


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,380	13,331	(50)
CEB Coal	12,960	13,015	55
CEB Thermal Oil	8,005	7,239	(766)
IPP Thermal Oil	6,480	6,564	84
NCRE (Telemetered)	3,736	3,480	(255)
Total	44,561	43,629	(932)

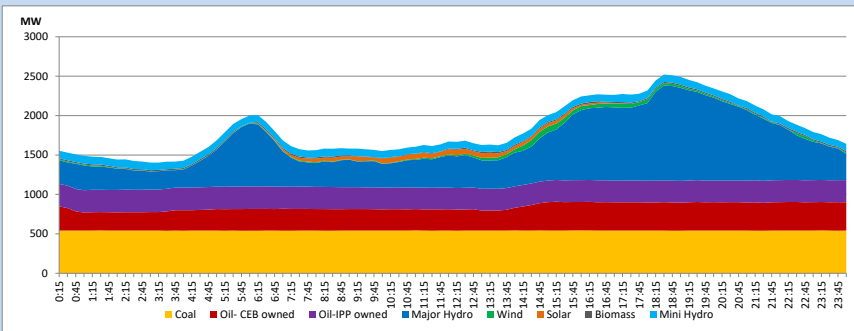
1.12 Power Plant-wise Dispatch Summary

October 1, 2024



1.13 Daily Load Curve

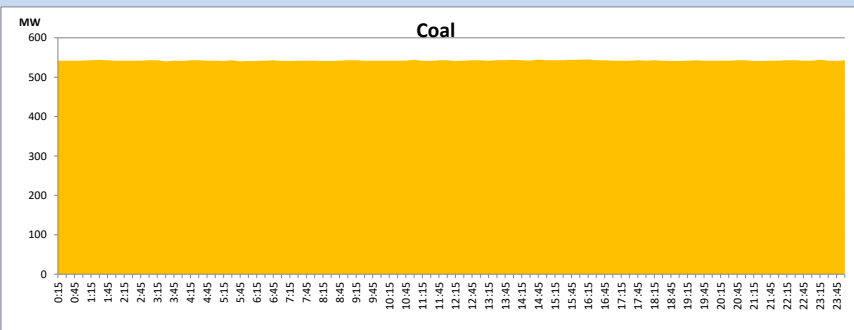
October 1, 2024



Solar and wind data is based on Telemetered Power Stations only

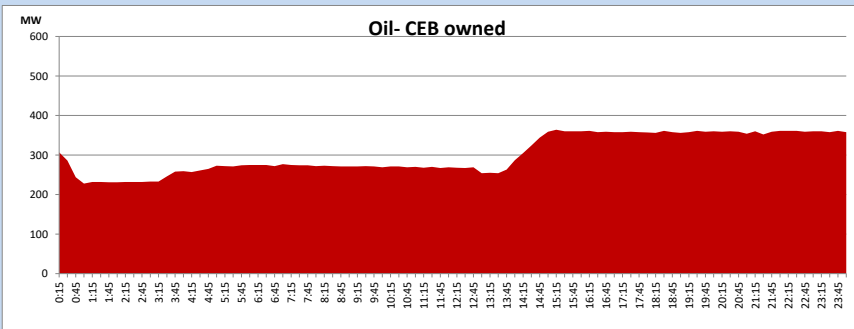
Coal Generation during

October 1, 2024

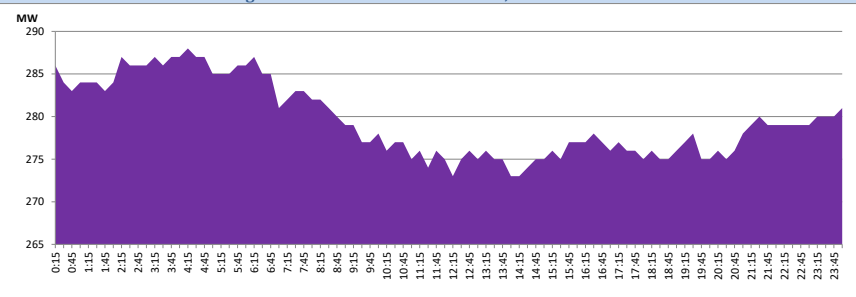


CEB Oil Plant Generation during

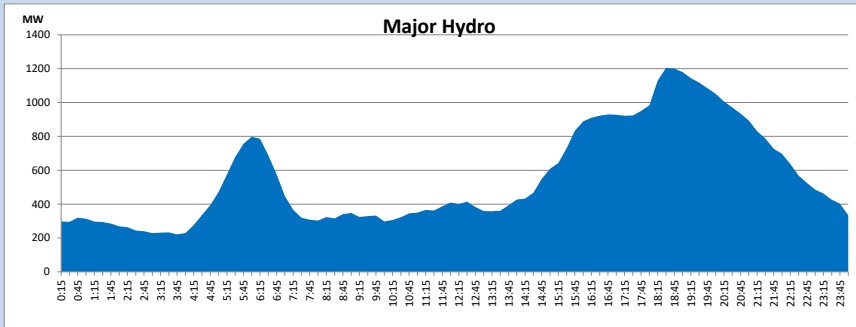
October 1, 2024



IPP Oil Plant Generation during October 1, 2024

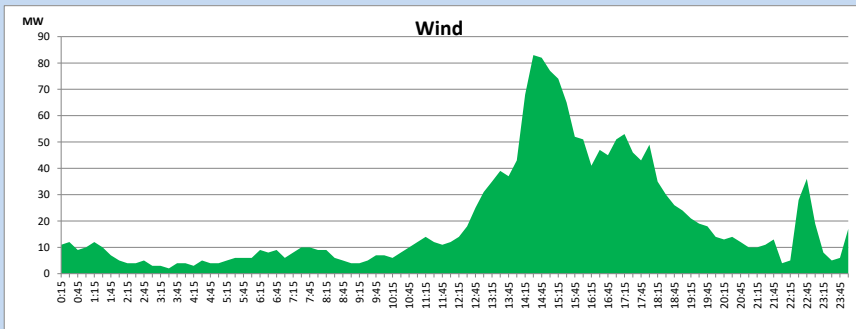


Major Hydro Generation during October 1, 2024



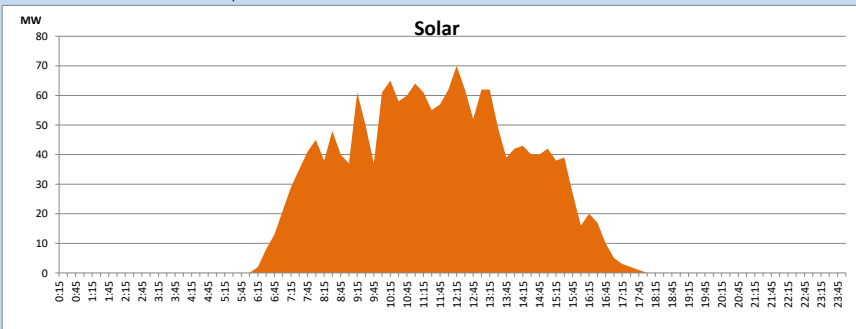
Wind Generation during October 1, 2024

Based on Telemetered Power Stations only



Solar Generation during October 1, 2024

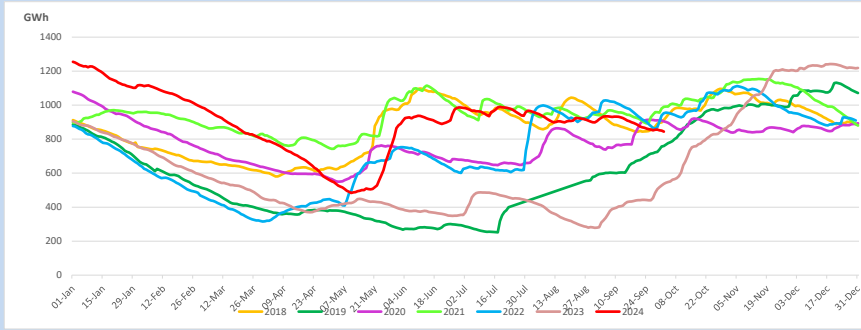
Based on Telemetered Power Stations only



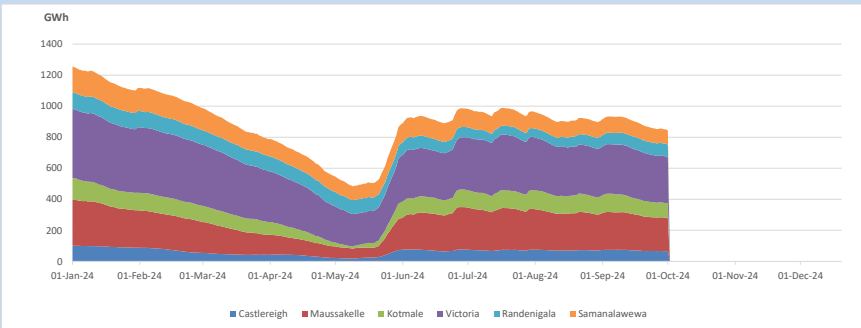
1.14 Major Incidents reported during the day October 1, 2024

- 1) KCCPS-2 availability was limited to 30MW from 17:00hrs due to ST GCB synchronizing failure. KCCPS-2 was made unavailable from 02:38hrs (02.10.2024).
- 2) Rantambe Unit 01 which was released for annual maintenance on 30.08.2024, was made available at 18:20hrs.
- 3) Rantambe Unit 02 was released for annual maintenance at 18:36hrs.
- 4) Rantambe Unit 01 tripped at 18:39hrs, rejecting 25MW from the system due to auxiliary failure. Rantambe Unit 01 resumed generation at 19:04hrs.

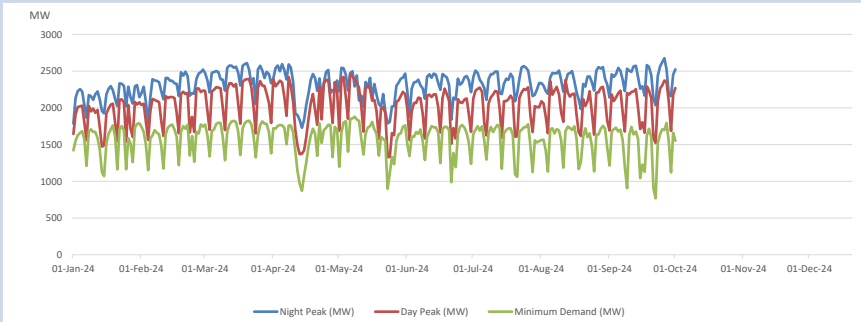
2. Comparison of Total Reservoir Storage Levels with Past Years



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

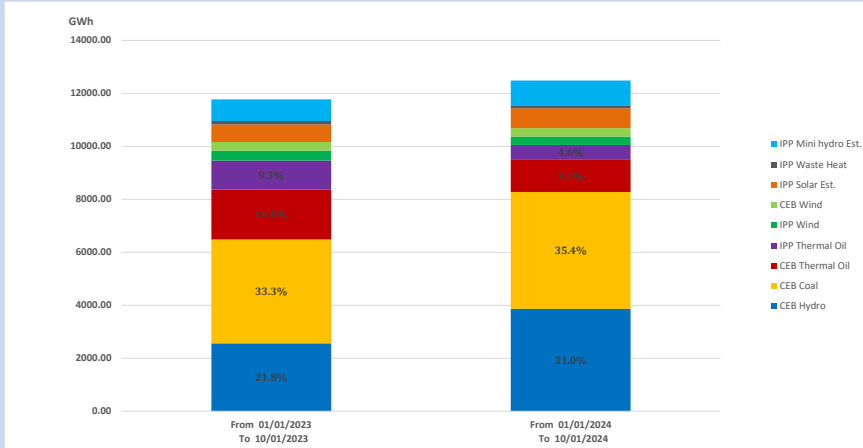


4. Variation of Demand during the current year



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 10/01/2023

11773 GWh

From 01/01/2024 To 10/01/2024

12484 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