

Generation and Reservoirs Statistics

September 26, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 26, 2024

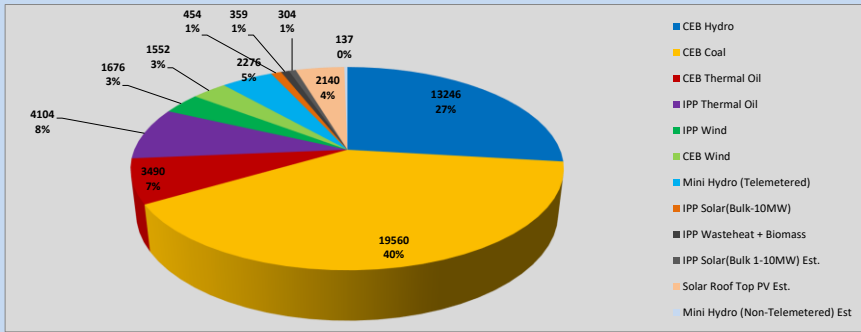


Table 01

	Generation (MWh)
CEB Hydro	13246
CEB Coal	19560
CEB Thermal Oil	3490
IPP Thermal Oil	4104
IPP Wind	1676
CEB Wind	1552
Mini Hydro (Telemetered)	2276
IPP Solar (Bulk)	454
IPP Waste heat + Biomass	359
Total Generation (Excluding estimated figures)	46,717
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	137
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	214
Total Generation (Including estimated figures)	49,298

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	350	29.56%
CEB Coal	458	38.70%
CEB Thermal Oil	56	4.74%
IPP Thermal	33	2.82%
IPP Wind	61	5.17%
CEB Wind	52	4.40%
Mini Hydro *	91	7.73%
IPP Solar *	74	6.27%
IPP Waste heat + BMP	7	0.62%
Total	1,183	

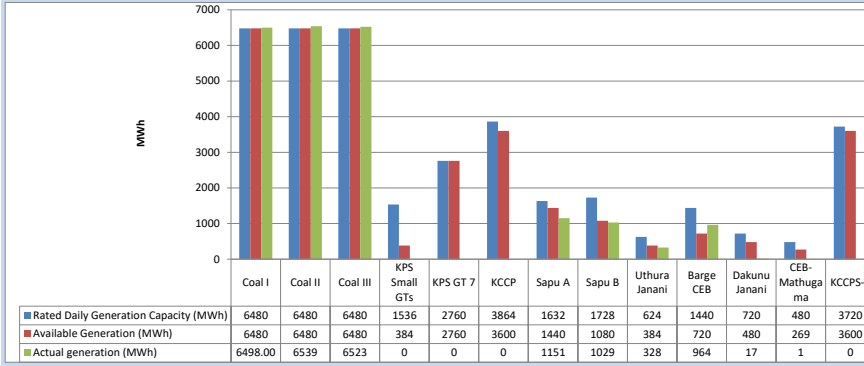
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,801	31.04%
CEB Coal	4,337	35.41%
CEB Thermal Oil	1,187	9.69%
IPP Thermal	542	4.43%
IPP Wind	324	2.64%
CEB Wind	318	2.59%
Mini Hydro *	885	7.23%
IPP Solar *	748	6.11%
IPP Waste heat	105	0.86%
Total	12,246	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 26, 2024

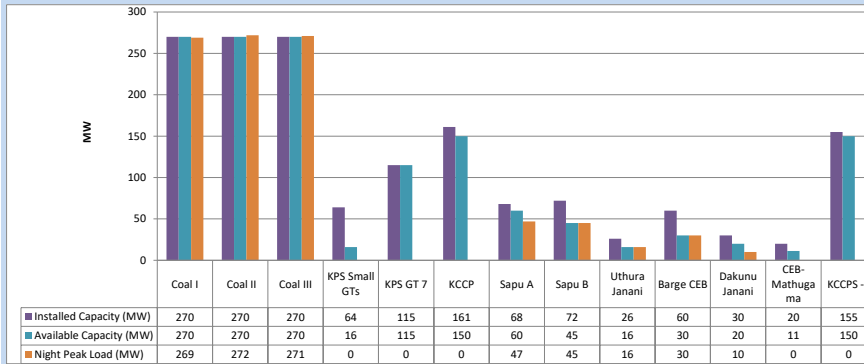


Available Generation is estimated based on plant availability at 6.00am on

September 27, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 26, 2024

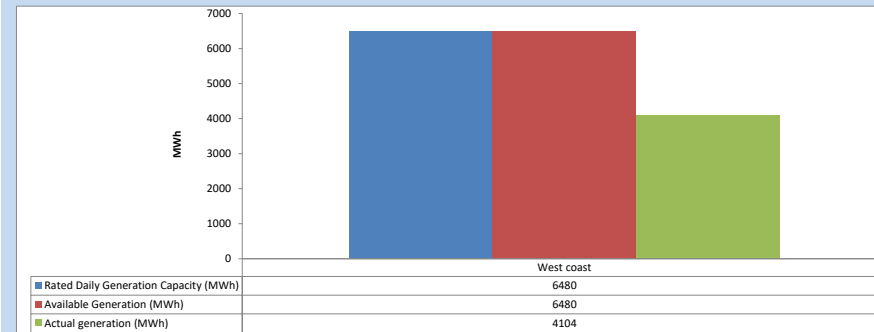


Plant availability is recorded at 6.00 am on

September 27, 2024

1.4 IPP owned Thermal Plant Dispatch

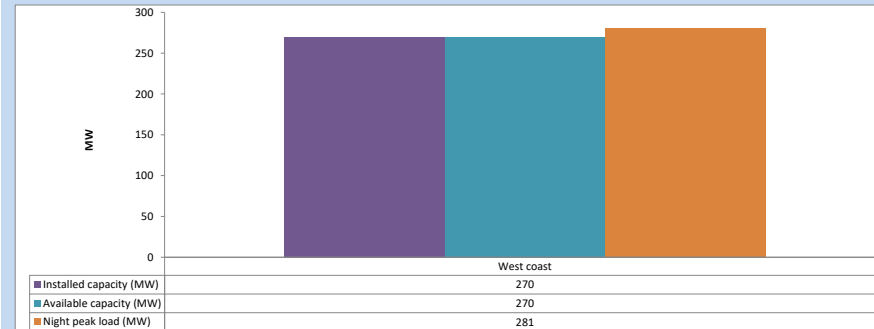
September 26, 2024



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

September 27, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

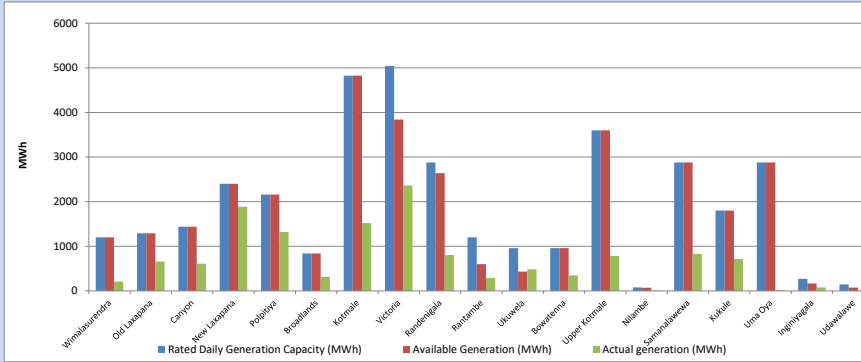


Plant availability is recorded at 6.00 am on

September 27, 2024

1.6 Major Hydro Plant Dispatch

September 26, 2024

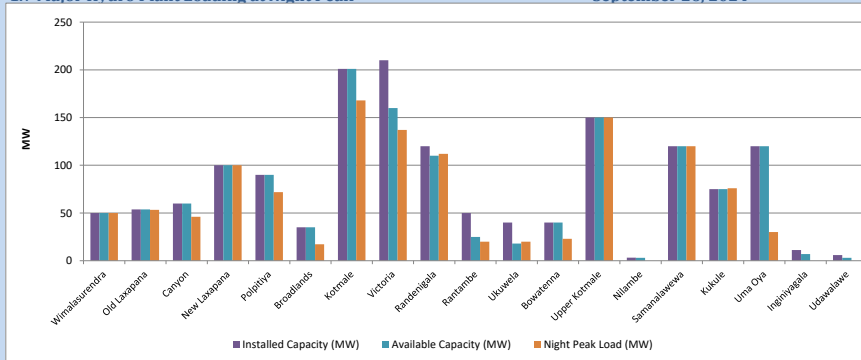


Available Generation is estimated based on plant availability at 6.00am on

September 27, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 26, 2024



Plant availability is recorded at 6.00 am on

September 27, 2024

1.8 Summary of Major Plant performance

September 26, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	209
Old Laxapana	54	54	53	657
Canyon	60	60	46	610
New Laxapana	100	100	100	1,884
Polpitiya	90	90	72	1,320
Broadlands	35	35	17	318
Kotmale	201	201	168	1,520
Victoria	210	160	137	2,361
Randenigala	120	110	112	805
Rantambe	50	25	20	286
Ukuwela	40	18	20	483
Bowatenna	40	40	23	350
Upper Kotmale	150	150	150	785
Nilambe	3	3	0	10
Samanalawewa	120	120	120	829
Kukule	75	75	76	712
Uma Oya	120	120	30	20
Inginiyagala	11	7	0	79
Udawalawe	6	3	0	10
Puttalam Coal I	270	270	269	6,498
Puttalam Coal II	270	270	272	6,539
Puttalam Coal III	270	270	271	6,523
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	60	47	1,151
Sapugaskanda B	72	45	45	1,029
Uthura Janani	26	16	16	328
Barge CEB	60	30	30	964
CEB-Hambantota	30	20	10	17
CEB-Mathugama	20	11	0	1
KCCPS-2	155	150	0	0
West Coast	270	270	281	4,104
Sobadhanavi	220	212	0	0
Total	3,606	3,114	2,667	46,719

Note-

Plant availability is the availability recorded at 6 am on

September 27, 2024

1.9 Contribution to the Night Peak in MW

September 26, 2024

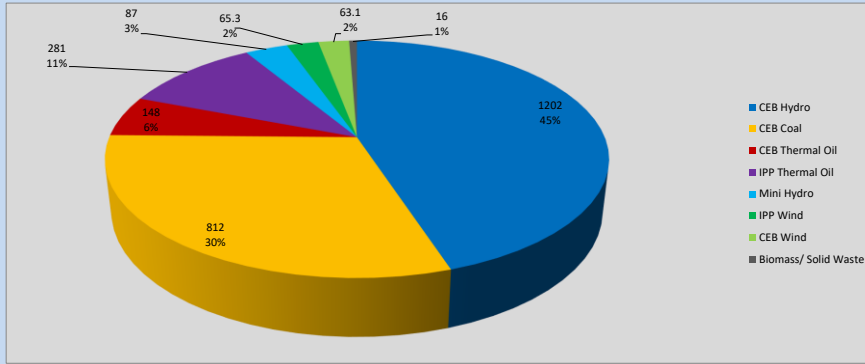


Table 05

CEB Hydro	1202	MW
CEB Coal	812	MW
CEB Thermal Oil	148	MW
IPP Thermal Oil	281	MW
Mini Hydro (Telemetered)	87	MW
IPP Wind	65.3	MW
CEB Wind	63.1	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

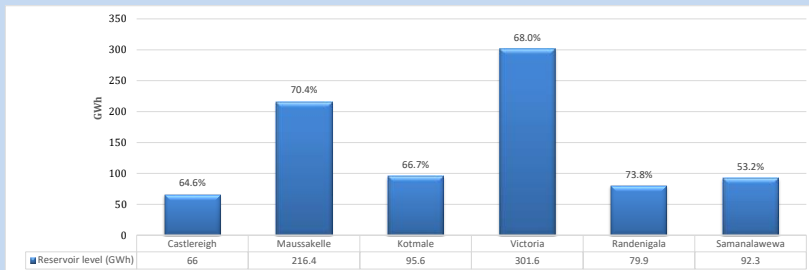
Table 06

Night Peak*	2,675	MW
Day Peak Maximum Demand	2,371	MW
Day Peak Minimum Demand	1,698	MW
Off Peak Minimum Demand	1,561	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 27, 2024



Total Reservoir Level
851.8 GWh
% of Total capacity
66.6%

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

September 26, 2024

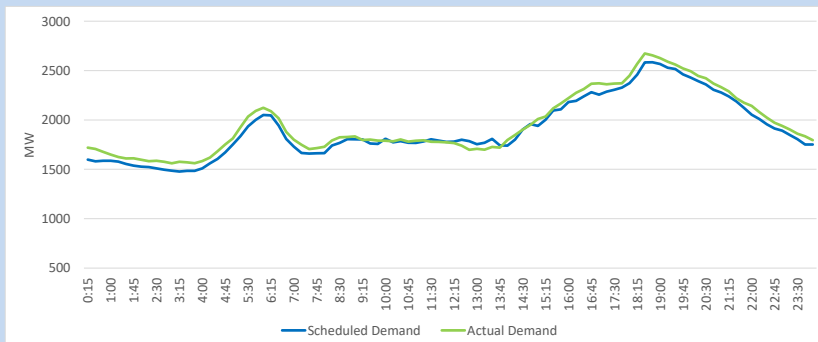
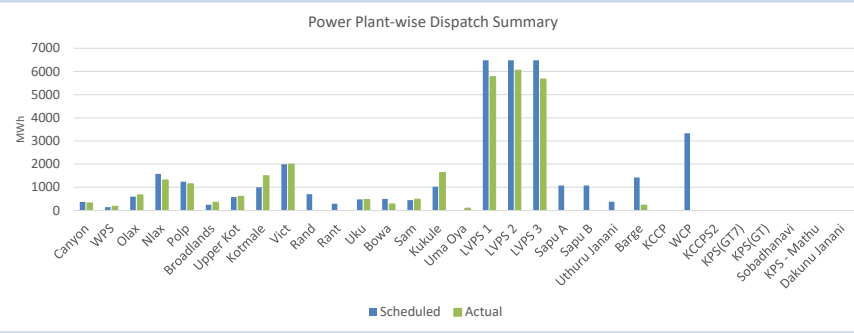


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,213	11,093	(120)
CEB Coal	19,440	17,502	(1,938)
CEB Thermal Oil	3,958	228	(3,730)
IPP Thermal Oil	3,333	-	(3,333)
NCRE (telemetered)	7,811	6,452	(1,359)
Total	45,756	35,276	(10,480)

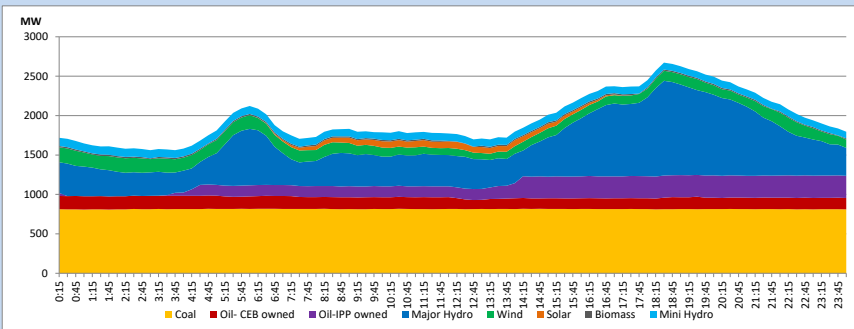
1.12 Power Plant-wise Dispatch Summary

September 26, 2024



1.13 Daily Load Curve

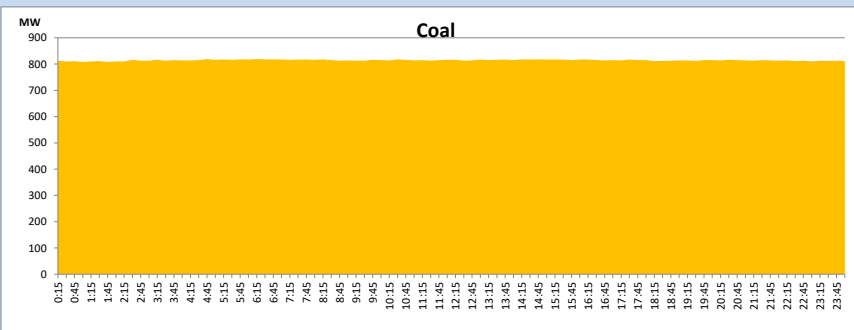
September 26, 2024



Solar and wind data is based on Telemetered Power Stations only

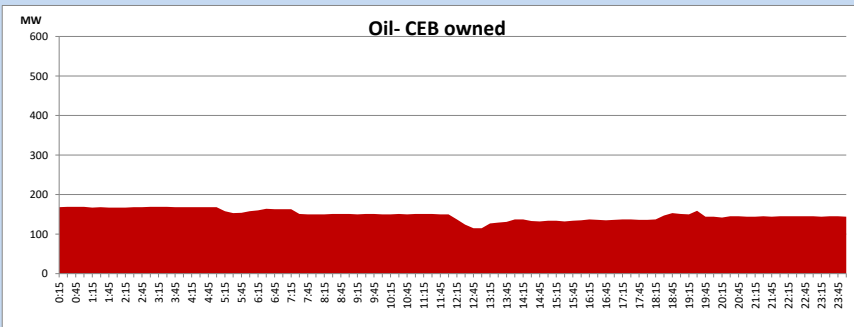
Coal Generation during

September 26, 2024

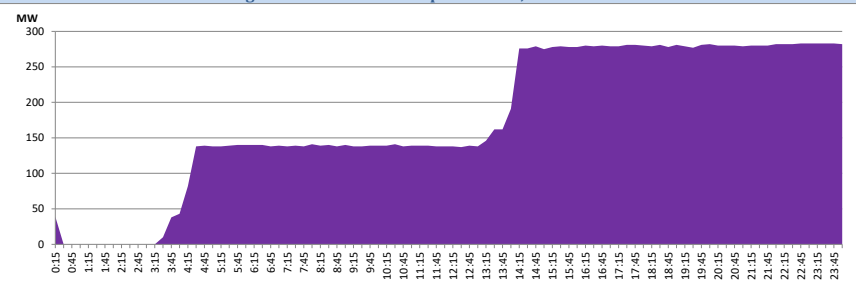


CEB Oil Plant Generation during

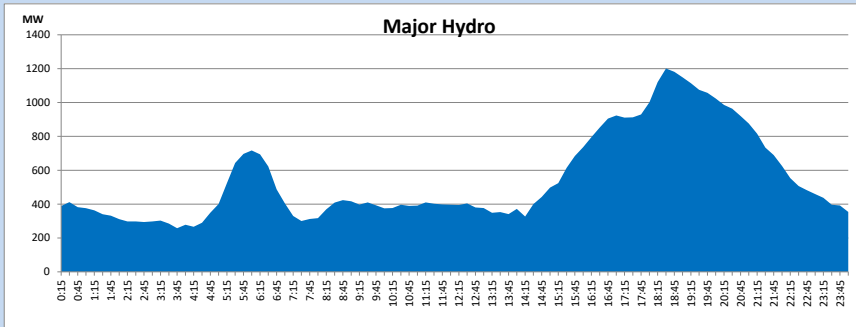
September 26, 2024



IPP Oil Plant Generation during September 26, 2024

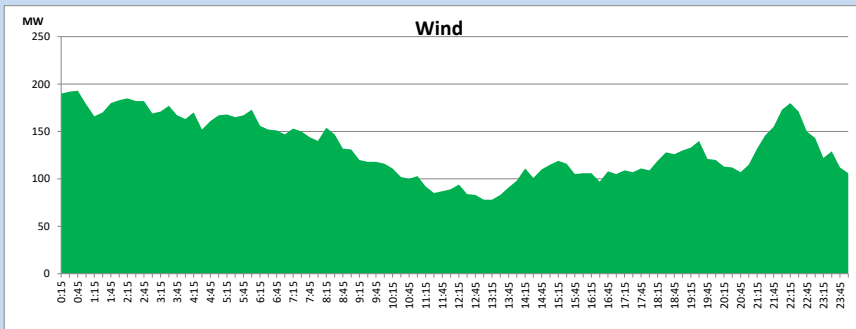


Major Hydro Generation during September 26, 2024



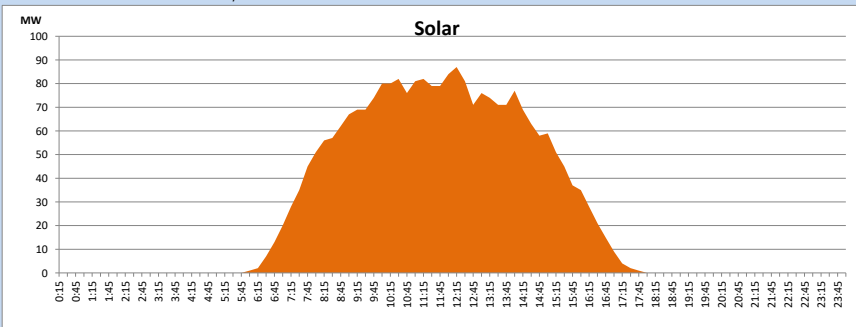
Wind Generation during September 26, 2024

Based on Telemetered Power Stations only



Solar Generation during September 26, 2024

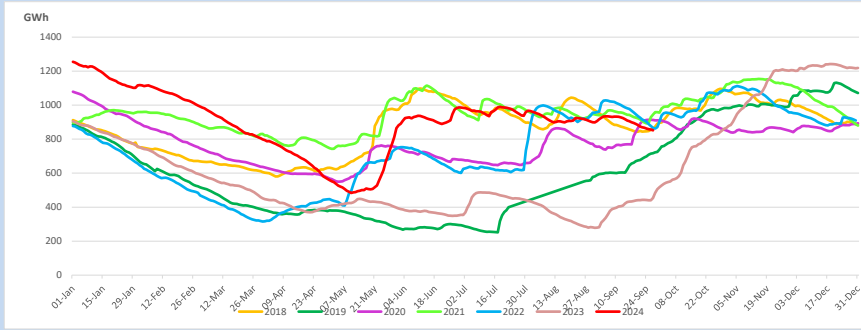
Based on Telemetered Power Stations only



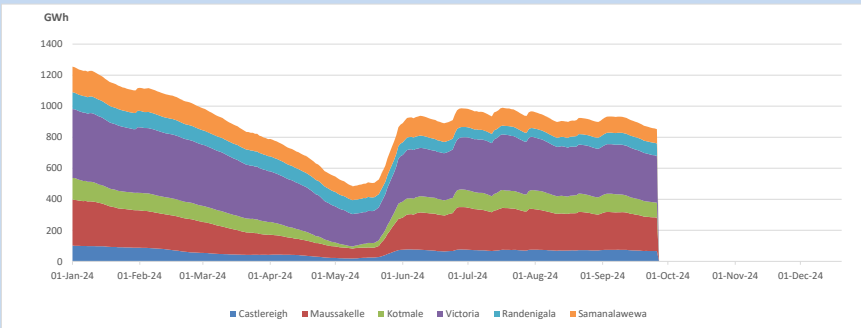
1.14 Major Incidents reported during the day September 26, 2024

- Mathugama DPP tripped at 18:31hrs rejecting 7.2MW from the system due to the tripping of Mathugama GSS 33kV feeder 09. The plant made available for generation at 18:50hrs.
- Kukule Ganga pond spilling started at 03:40hrs (27.09.2024) and continues to the present hour.

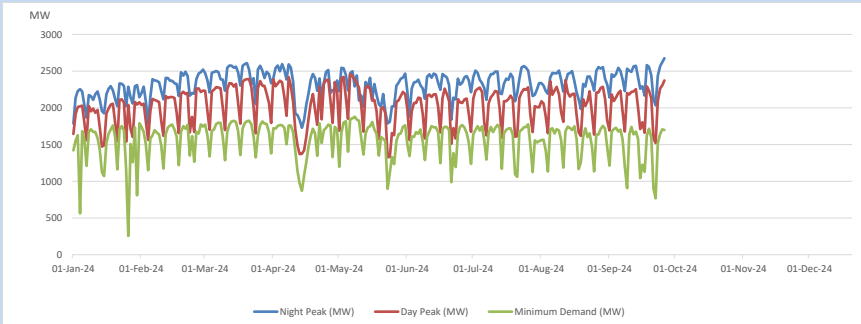
2. Comparison of Total Reservoir Storage Levels with Past Years



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

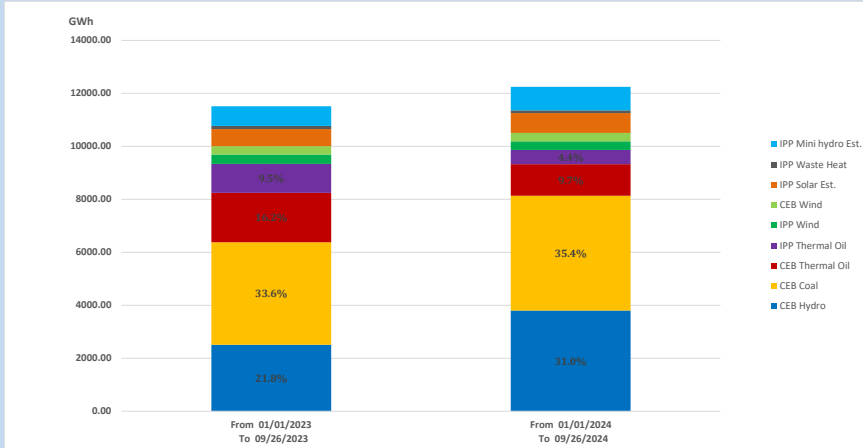


4. Variation of Demand during the current year



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 09/26/2023

11512 GWh

From 01/01/2024 To 09/26/2024

12246 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