

Generation and Reservoirs Statistics

September 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 23, 2024

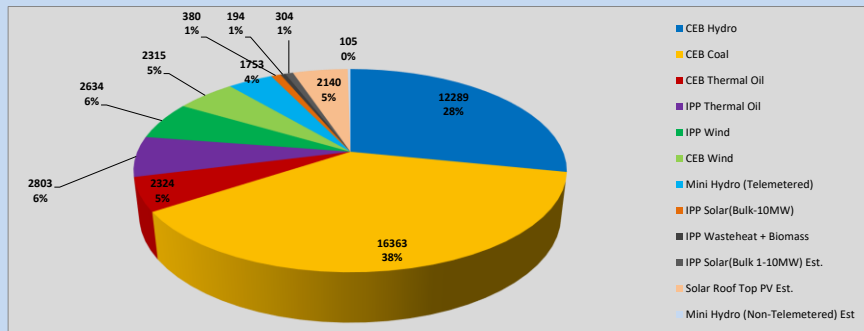


Table 01

	Generation (MWh)
CEB Hydro	12,289
CEB Coal	16,363
CEB Thermal Oil	2,324
IPP Thermal Oil	2,803
IPP Wind	2,634
CEB Wind	2,315
Mini Hydro (Telemetered)	1,753
IPP Solar (Bulk)	380
IPP Waste heat + Biomass	194
Total Generation (Excluding estimated figures)	41,055
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	105
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,140
Total Generation (Including estimated figures)	43,604

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	315	30.40%
CEB Coal	401	38.70%
CEB Thermal Oil	48	4.67%
IPP Thermal	16	1.57%
IPP Wind	54	5.22%
CEB Wind	46	4.43%
Mini Hydro *	84	8.07%
IPP Solar *	65	6.32%
IPP Waste heat + BMP	6	0.62%
Total	1,036	

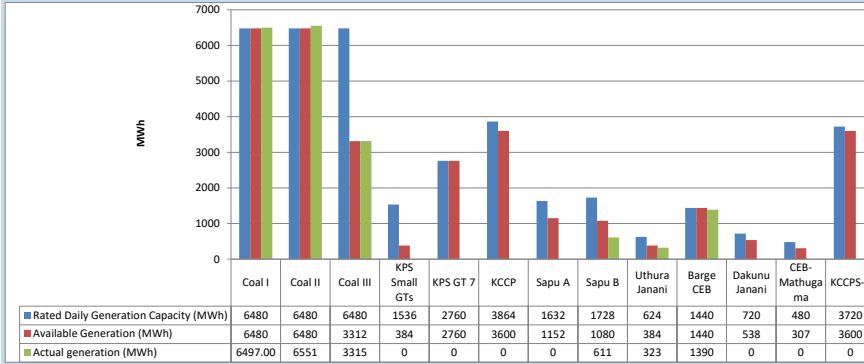
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,767	31.13%
CEB Coal	4,280	35.37%
CEB Thermal Oil	1,179	9.74%
IPP Thermal	525	4.34%
IPP Wind	317	2.62%
CEB Wind	311	2.57%
Mini Hydro *	877	7.25%
IPP Solar *	739	6.11%
IPP Waste heat	104	0.86%
Total	12,100	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 23, 2024

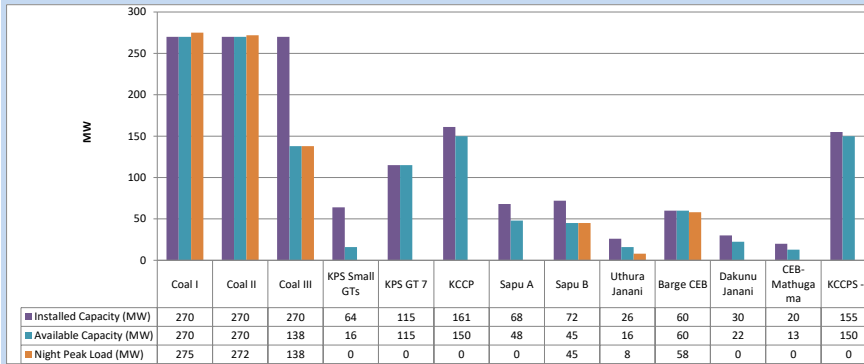


Available Generation is estimated based on plant availability at 6.00am on

September 24, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 23, 2024

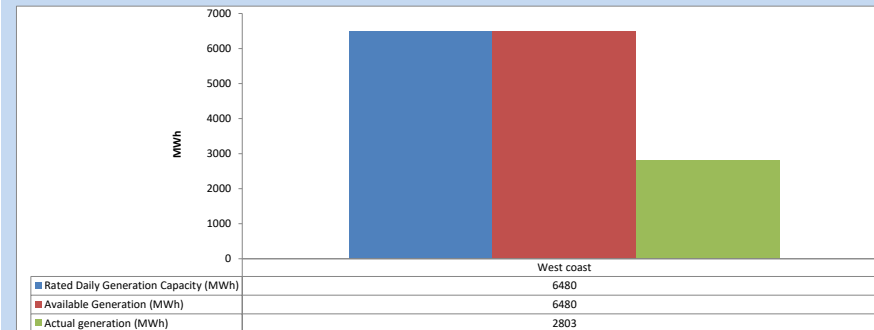


Plant availability is recorded at 6.00 am on

September 24, 2024

1.4 IPP owned Thermal Plant Dispatch

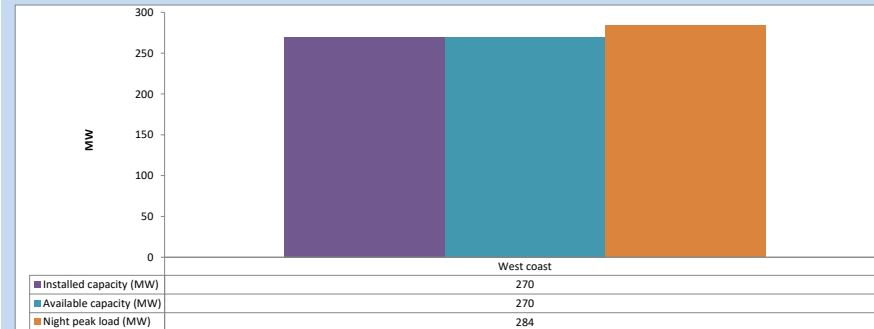
September 23, 2024



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

September 24, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

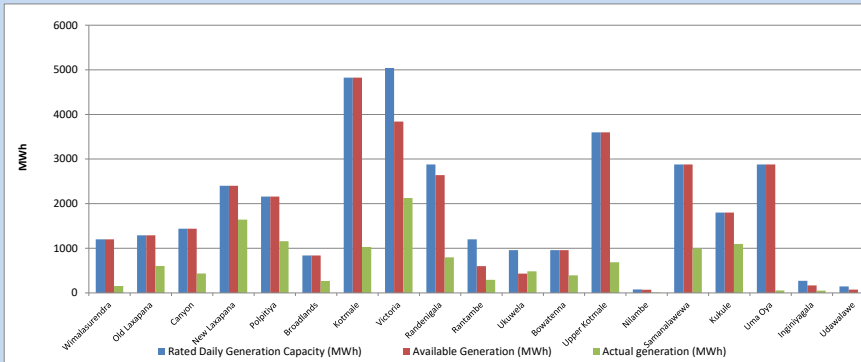


Plant availability is recorded at 6.00 am on

September 24, 2024

1.6 Major Hydro Plant Dispatch

September 23, 2024

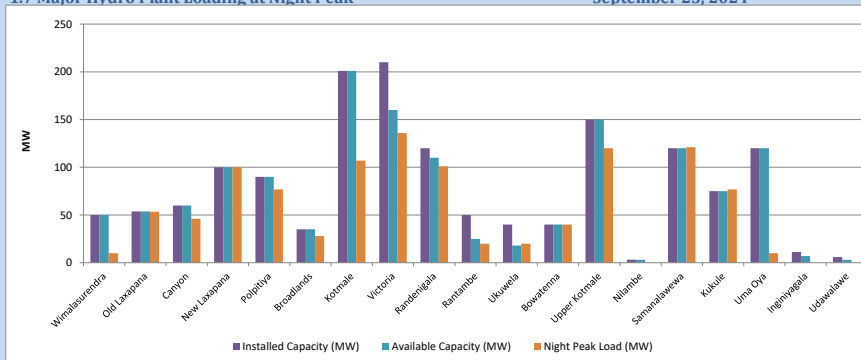


Available Generation is estimated based on plant availability at 6.00am on

September 24, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 23, 2024



Plant availability is recorded at 6.00 am on

September 24, 2024

1.8 Summary of Major Plant performance

September 23, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	10	156
Old Laxapana	54	54	53	603
Canyon	60	60	46	436
New Laxapana	100	100	100	1,644
Polpitiya	90	90	77	1,160
Broadlands	35	35	28	269
Kotmale	201	201	107	1,030
Victoria	210	160	136	2,126
Randenigala	120	110	101	797
Rantambe	50	25	20	294
Ukuwela	40	18	20	484
Bowatenna	40	40	40	393
Upper Kotmale	150	150	120	689
Nilambe	3	3	0	11
Samanalawewa	120	120	121	996
Kukule	75	75	77	1,096
Uma Oya	120	120	10	54
Inginiyagala	11	7	0	52
Udawalawe	6	3	0	0
Puttalam Coal I	270	270	275	6,497
Puttalam Coal II	270	270	272	6,551
Puttalam Coal III	270	138	138	3,315
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	45	45	611
Uthura Janani	26	16	8	323
Barge CEB	60	60	58	1,390
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	284	2,803
Sobadhanavi	220	212	0	0
Total	3,606	3,004	2,431	41,056

Note-

Plant availability is the availability recorded at 6 am on

September 24, 2024

1.9 Contribution to the Night Peak in MW

September 23, 2024

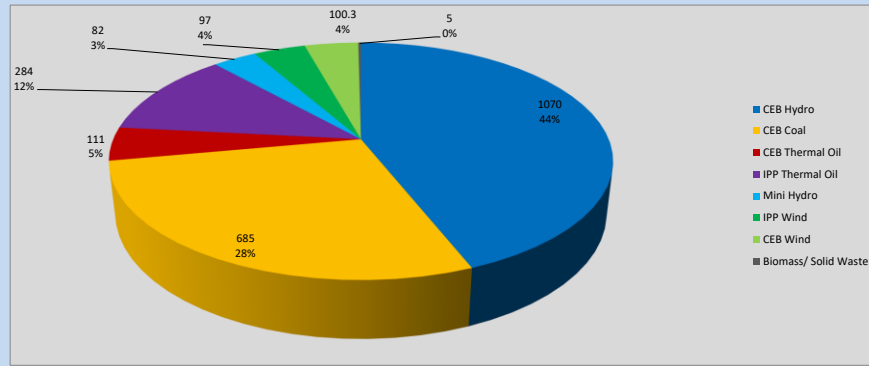


Table 05

CEB Hydro	1070	MW
CEB Coal	685	MW
CEB Thermal Oil	111	MW
IPP Thermal Oil	284	MW
Mini Hydro (Telemetered)	82	MW
IPP Wind	97	MW
CEB Wind	100.3	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

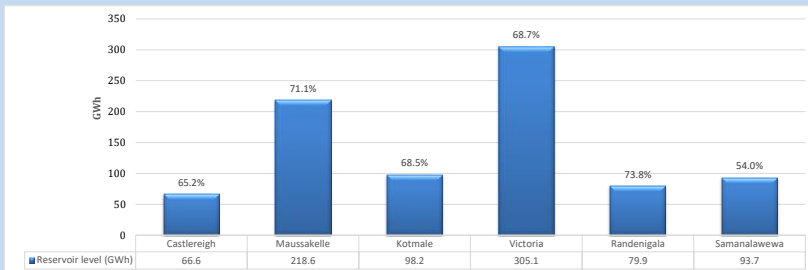
Table 06

Night Peak*	2,434	MW
Day Peak Maximum Demand	2,090	MW
Day Peak Minimum Demand	1,517	MW
Off Peak Minimum Demand	1,249	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 24, 2024



Total Reservoir Level: 862.1 GWh
% of Total capacity: 67.4%

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

September 23, 2024

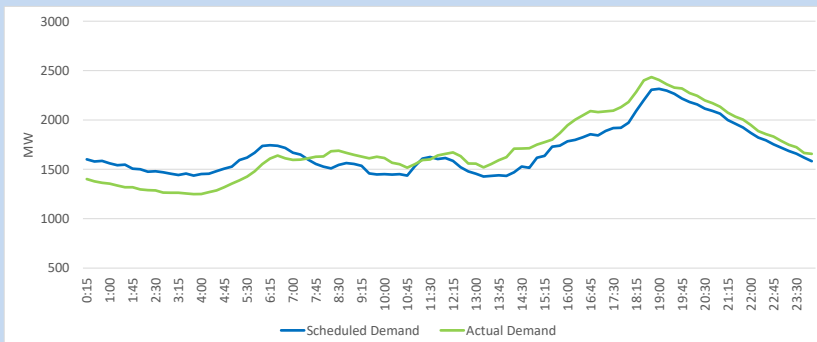
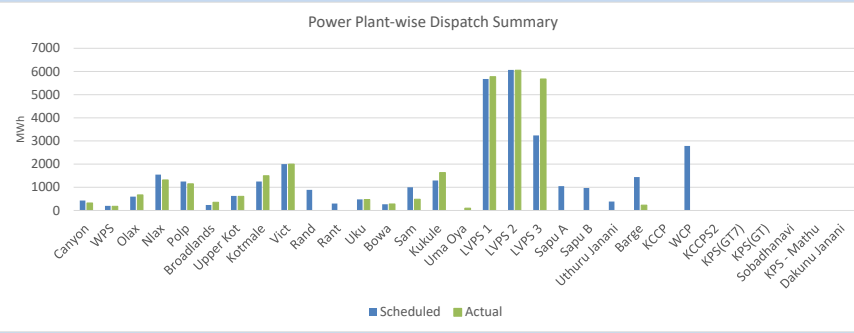


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,378	11,093	(1,285)
CEB Coal	14,982	17,502	2,520
CEB Thermal Oil	3,845	228	(3,617)
IPP Thermal Oil	2,783	-	(2,783)
NCRE (Telemetered)	6,453	7,241	787
Total	40,442	36,065	(4,377)

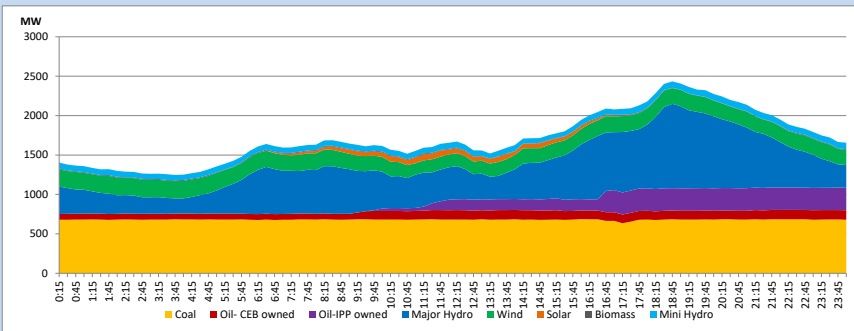
1.12 Power Plant-wise Dispatch Summary

September 23, 2024



1.13 Daily Load Curve

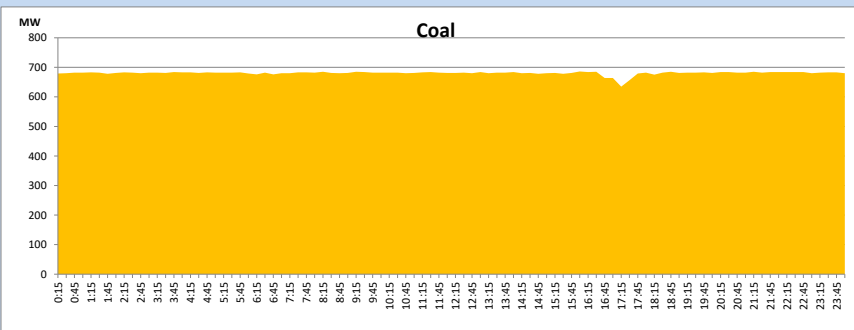
September 23, 2024



Solar and wind data is based on Telemetered Power Stations only

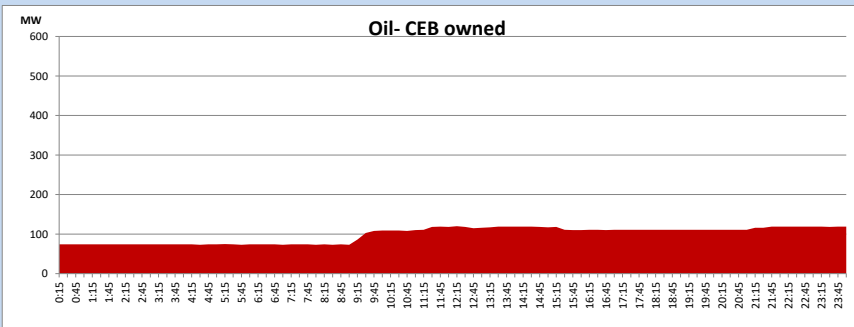
Coal Generation during

September 23, 2024

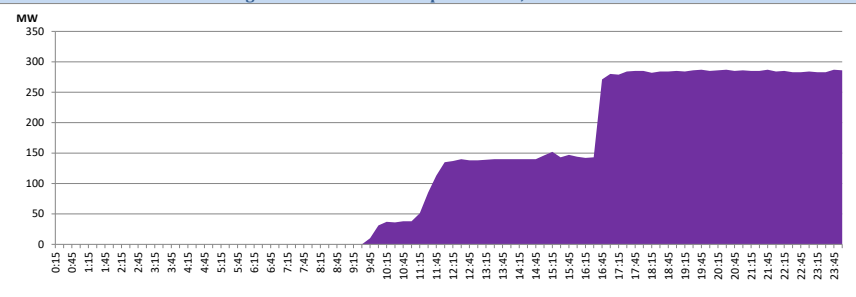


CEB Oil Plant Generation during

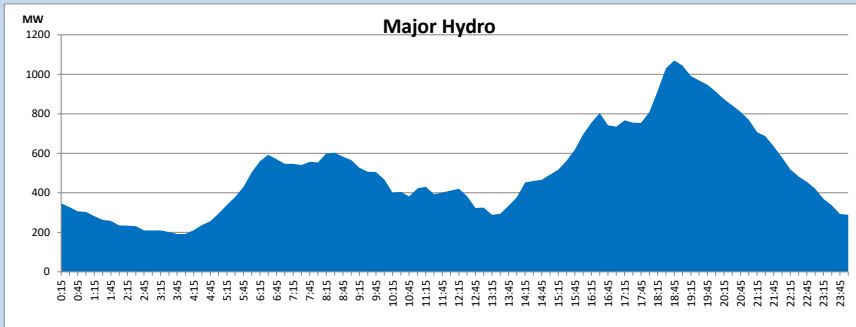
September 23, 2024



IPP Oil Plant Generation during September 23, 2024

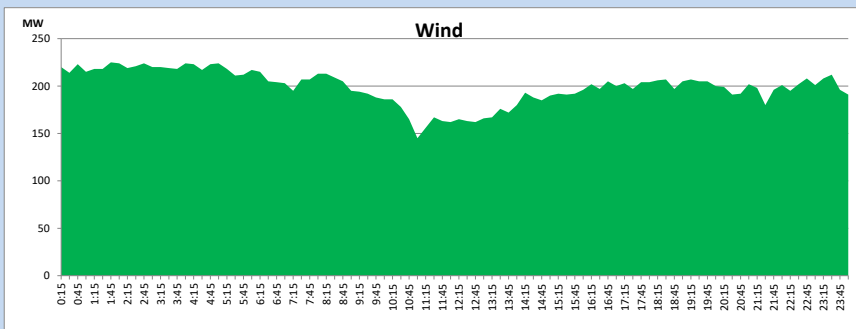


Major Hydro Generation during September 23, 2024



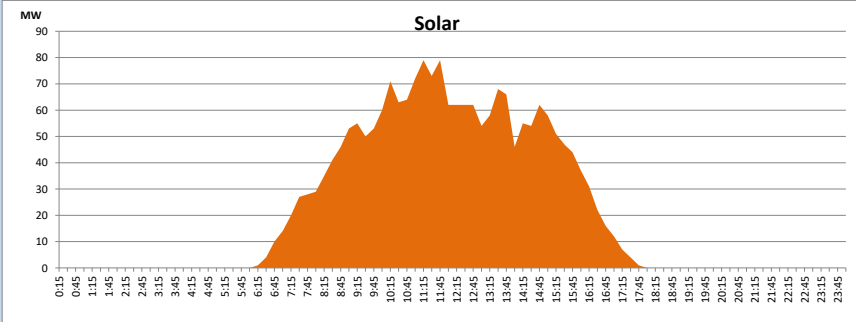
Wind Generation during September 23, 2024

Based on Telemetered Power Stations only



Solar Generation during September 23, 2024

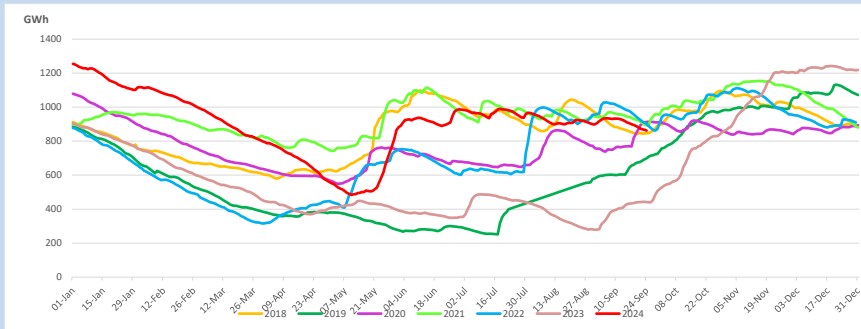
Based on Telemetered Power Stations only



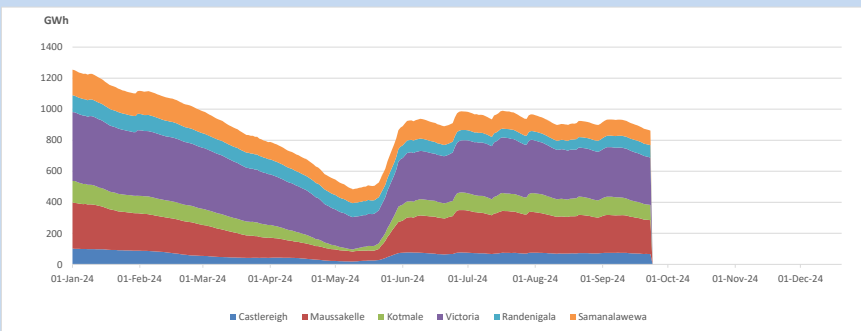
1.14 Major Incidents reported during the day September 23, 2024

Nil.

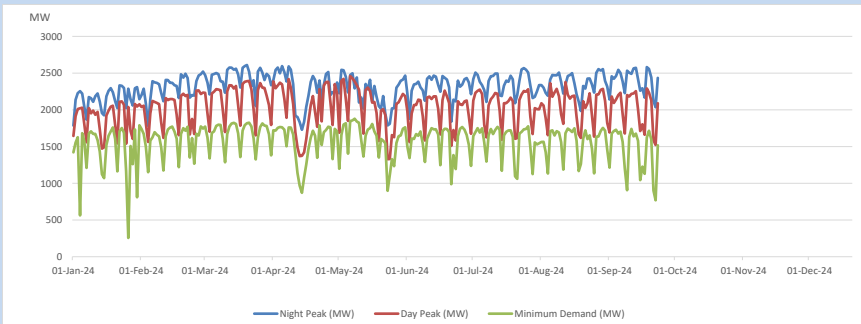
2. Comparison of Total Reservoir Storage Levels with Past Years



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

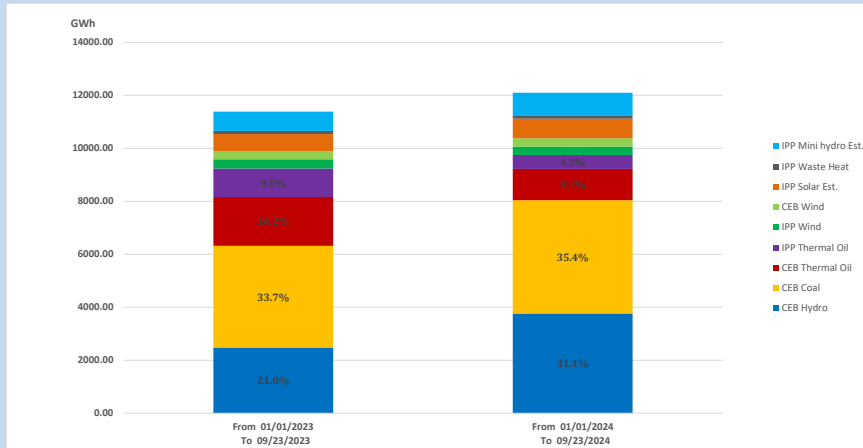


4. Variation of Demand during the current year



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 09/23/2023 **11389 GWh**
 From 01/01/2024 To 09/23/2024 **12100 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