

Generation and Reservoirs Statistics

September 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 2, 2024

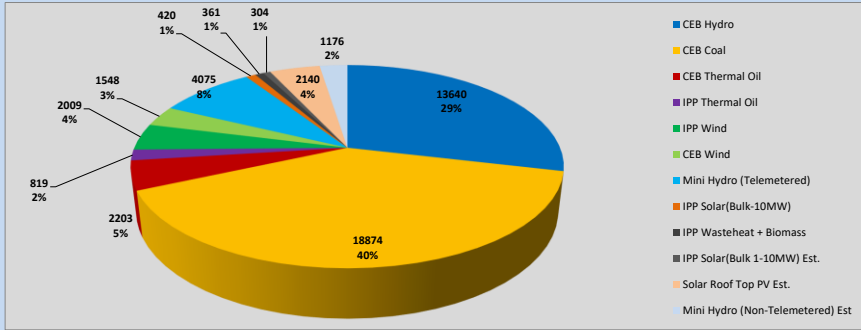


Table 01

	Generation (MWh)
CEB Hydro	13640
CEB Coal	18874
CEB Thermal Oil	2203
IPP Thermal Oil	819
IPP Wind	2009
CEB Wind	1548
Mini Hydro (Telemetered)	4075
IPP Solar (Bulk)	420
IPP Waste heat + Biomass	361
Total Generation (Excluding estimated figures)	43,949
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1176
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	47,569

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	24	27.25%
CEB Coal	36	41.17%
CEB Thermal Oil	2	2.53%
IPP Thermal	1	0.93%
IPP Wind	5	5.16%
CEB Wind	4	4.01%
Mini Hydro *	10	11.64%
IPP Solar *	6	6.50%
IPP Waste heat + BMP	1	0.82%
Total	88	

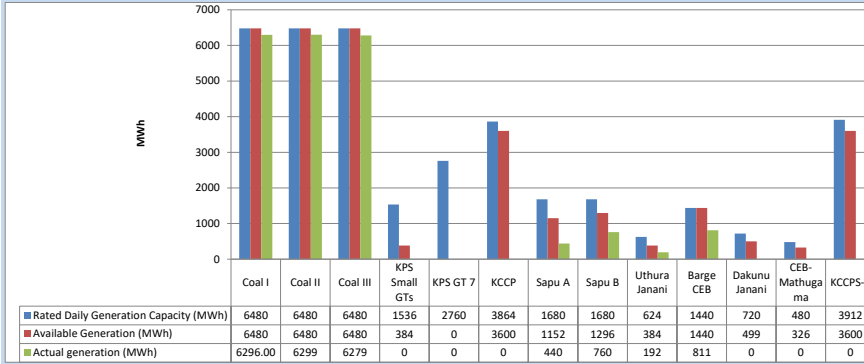
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,476	31.17%
CEB Coal	3,915	35.11%
CEB Thermal Oil	1,133	10.16%
IPP Thermal	510	4.57%
IPP Wind	267	2.40%
CEB Wind	269	2.41%
Mini Hydro *	804	7.21%
IPP Solar *	680	6.10%
IPP Waste heat	98	0.88%
Total	11,152	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 2, 2024

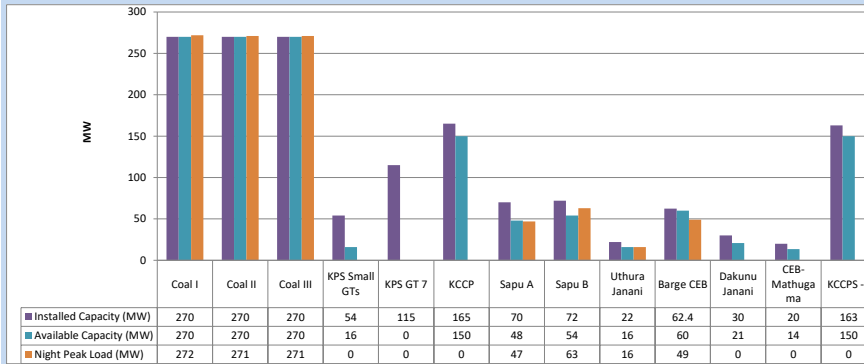


Available Generation is estimated based on plant availability at 6.00am on

September 3, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 2, 2024

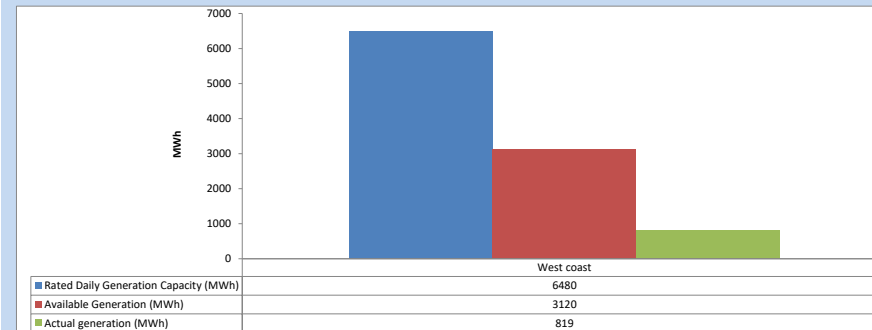


Plant availability is recorded at 6.00 am on

September 3, 2024

1.4 IPP owned Thermal Plant Dispatch

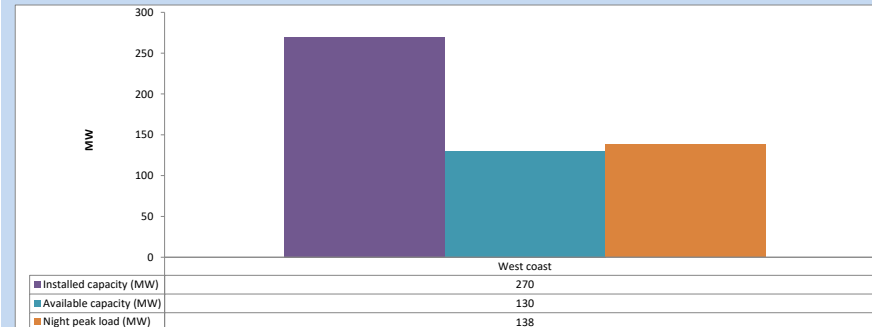
September 2, 2024



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

September 3, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

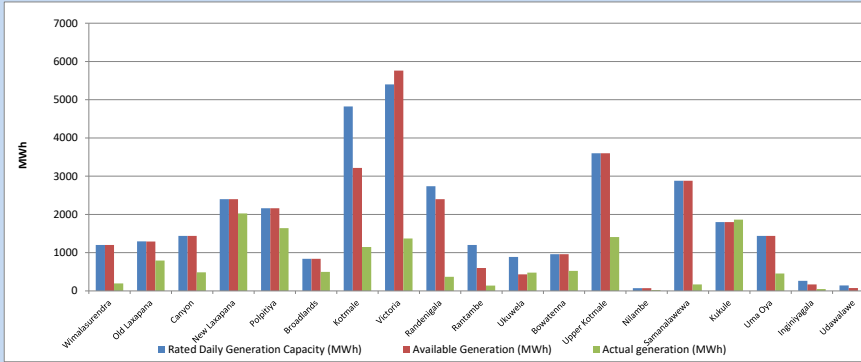


Plant availability is recorded at 6.00 am on

September 3, 2024

1.6 Major Hydro Plant Dispatch

September 2, 2024

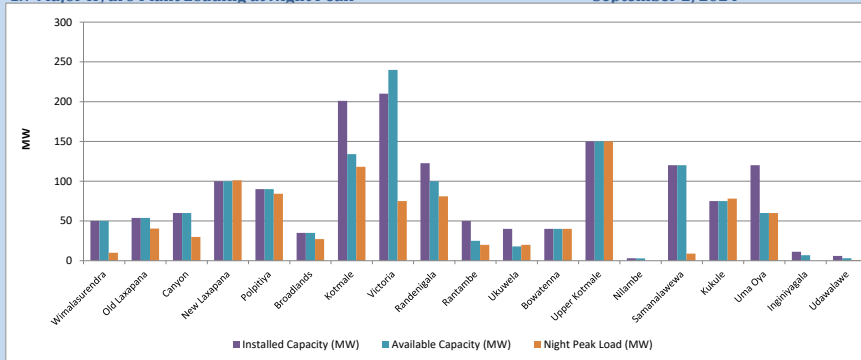


Available Generation is estimated based on plant availability at 6.00am on

September 3, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 2, 2024



Plant availability is recorded at 6.00 am on

September 3, 2024

1.8 Summary of Major Plant performance

September 2, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	10	197
Old Laxapana	54	54	40	794
Canyon	60	60	30	486
New Laxapana	100	100	101	2,027
Polpitiya	90	90	84	1,640
Broadlands	35	35	27	497
Kotmale	201	134	118	1,150
Victoria	210	240	75	1,371
Randenigala	123	100	81	369
Rantambe	50	25	20	140
Ukuwela	40	18	20	477
Bowatenna	40	40	40	524
Upper Kotmale	150	150	150	1,407
Nilambe	3	3	0	22
Samanalawewa	120	120	9	171
Kukule	75	75	78	1,864
Uma Oya	120	60	60	454
Inginiyagala	11	7	0	50
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	272	6,296
Puttalam Coal II	270	270	271	6,299
Puttalam Coal III	270	270	271	6,279
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	47	440
Sapugaskanda B	72	54	63	760
Uthura Janani	22	16	16	192
Barge CEB	62	60	49	811
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	138	819
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,832	2,453	43,949

Note-

Plant availability is the availability recorded at 6 am on

September 3, 2024

1.9 Contribution to the Night Peak in MW

September 2, 2024

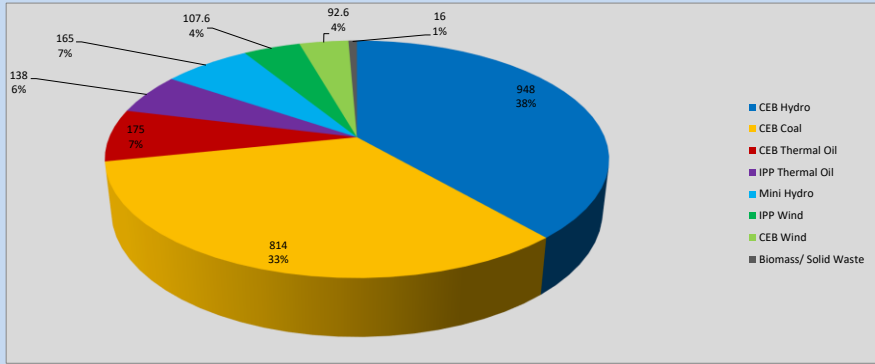


Table 05

CEB Hydro	948	MW
CEB Coal	814	MW
CEB Thermal Oil	175	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	165	MW
IPP Wind	107.6	MW
CEB Wind	92.6	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

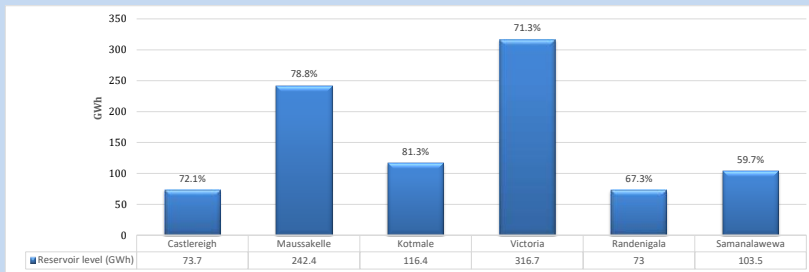
Table 06

Night Peak*	2,456	MW
Day Peak Maximum Demand	2,183	MW
Day Peak Minimum Demand	1,678	MW
Off Peak Minimum Demand	1,304	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 3, 2024



Total Reservoir Level
925.7 GWh
% of Total capacity
72.4%

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

September 2, 2024

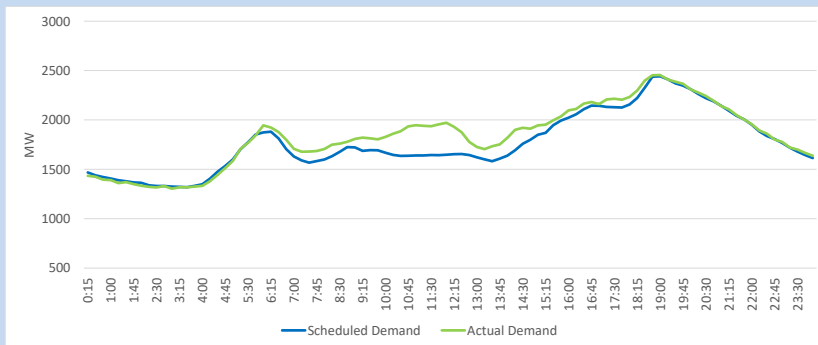
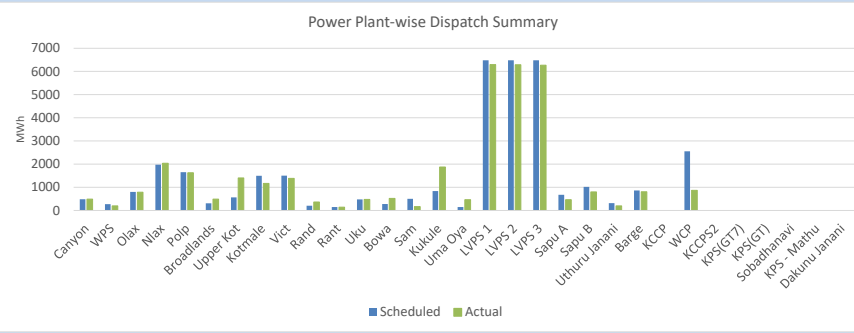


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,651	13,605	1,954
CEB Coal	19,440	18,853	(587)
CEB Thermal Oil	2,877	2,273	(605)
IPP Thermal Oil	2,555	867	(1,688)
NCRE (Telemetered)	5,922	8,505	2,583
Total	42,445	44,102	1,657

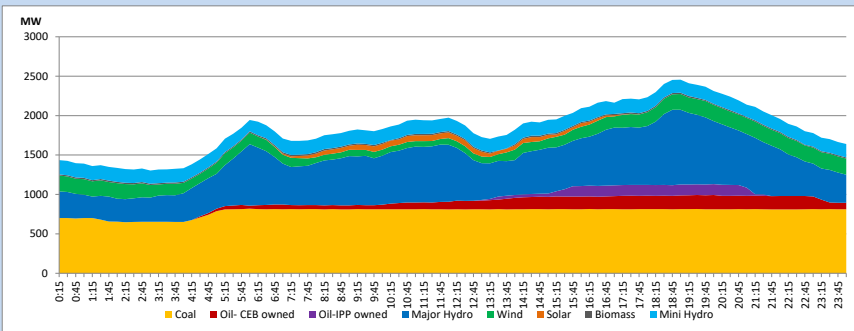
1.12 Power Plant-wise Dispatch Summary

September 2, 2024



1.13 Daily Load Curve

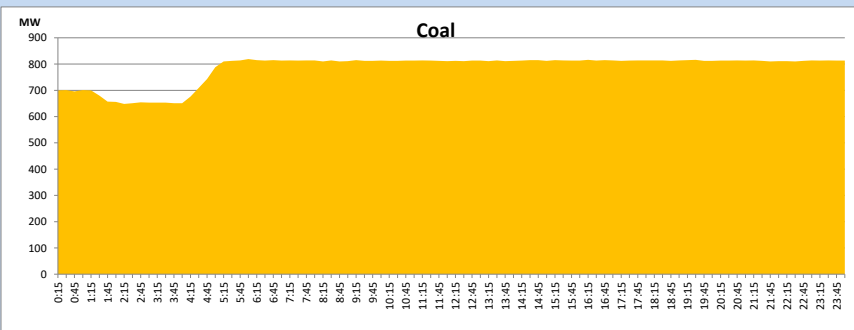
September 2, 2024



Solar and wind data is based on Telemetered Power Stations only

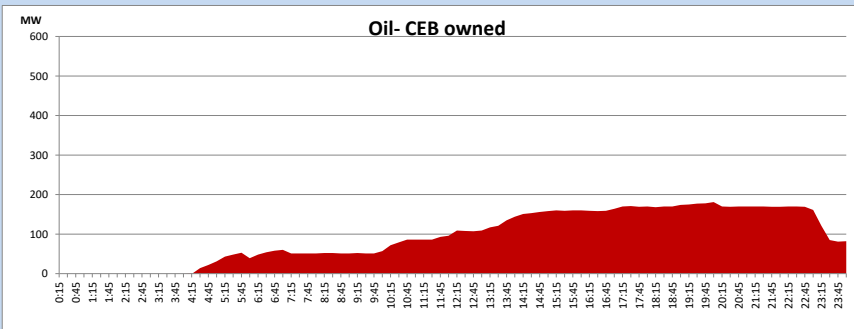
Coal Generation during

September 2, 2024

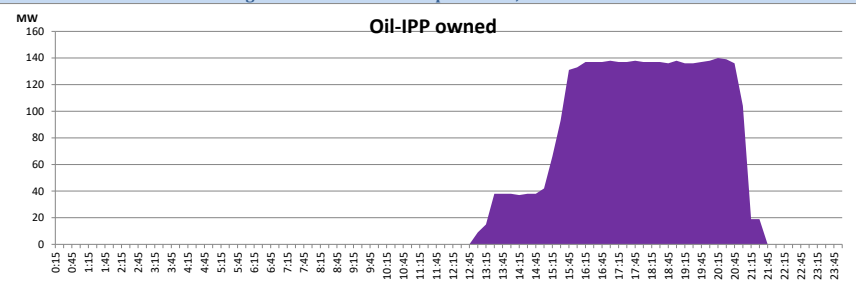


CEB Oil Plant Generation during

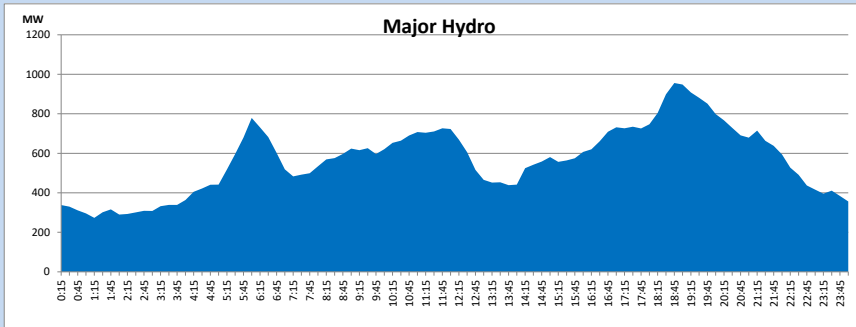
September 2, 2024



IPP Oil Plant Generation during September 2, 2024

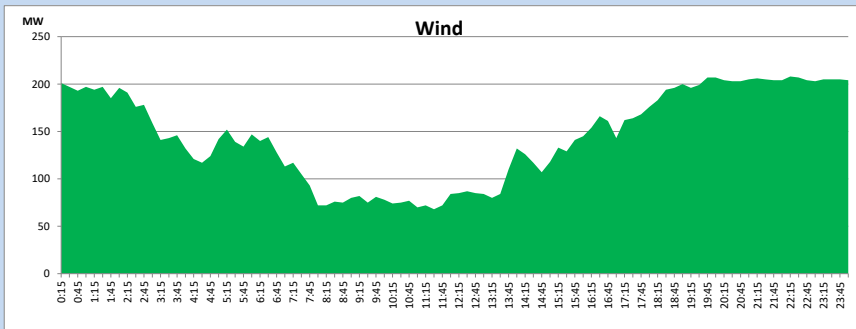


Major Hydro Generation during September 2, 2024



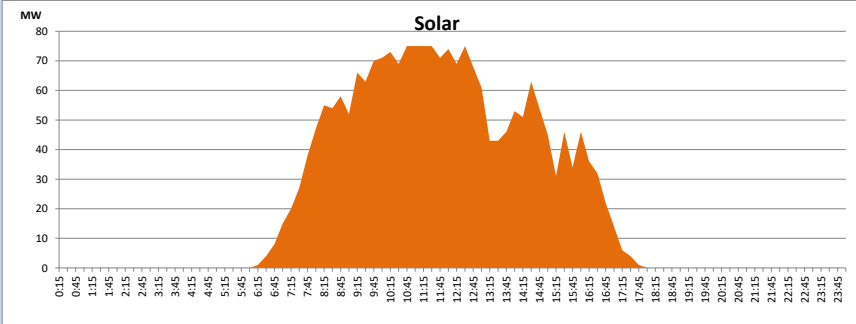
Wind Generation during September 2, 2024

Based on Telemetered Power Stations only



Solar Generation during September 2, 2024

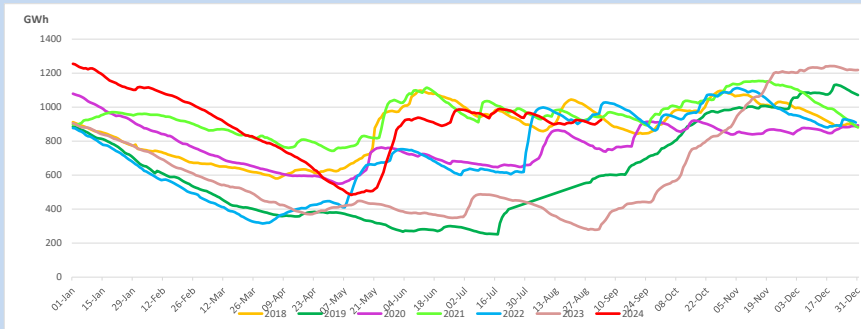
Based on Telemetered Power Stations only



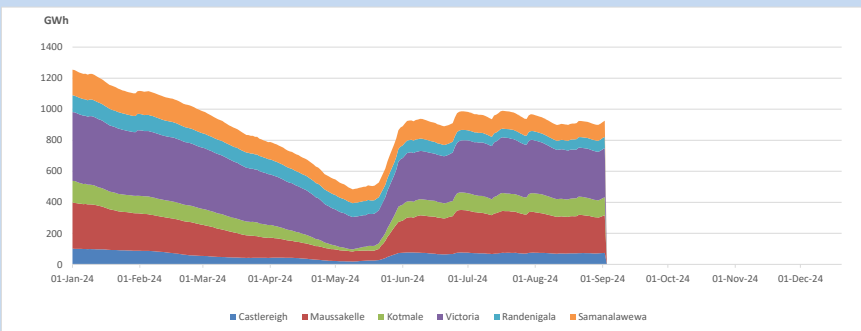
1.14 Major Incidents reported during the day September 2, 2024

- 1) Kukule pond spilling continues to the present hour.

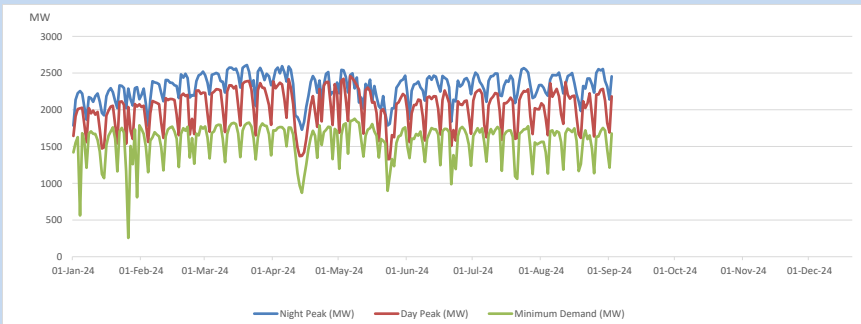
2. Comparison of Total Reservoir Storage Levels with Past Years



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

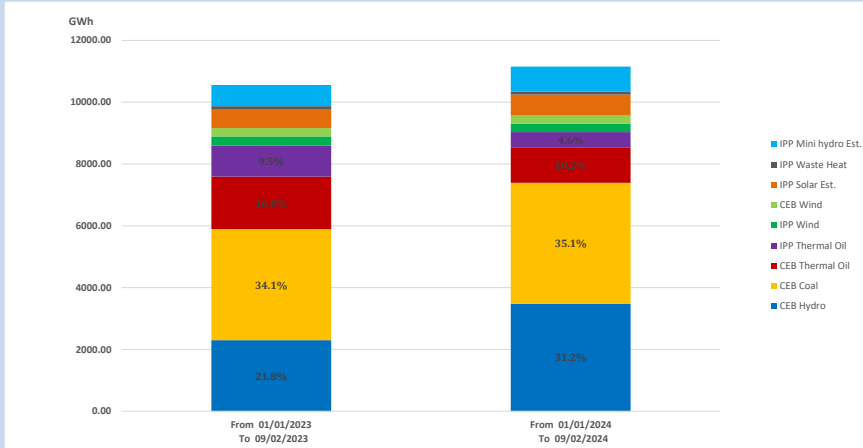


4. Variation of Demand during the current year



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 09/02/2023
From 01/01/2024 To 09/02/2024

10557 GWh
11152 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