

Generation and Reservoirs Statistics

September 4, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 4, 2024

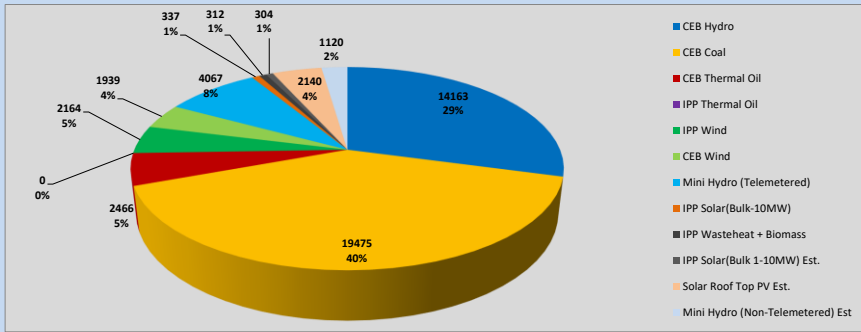


Table 01

	Generation (MWh)
CEB Hydro	14163
CEB Coal	19475
CEB Thermal Oil	2466
IPP Thermal Oil	0
IPP Wind	2164
CEB Wind	1939
Mini Hydro (Telemetered)	4067
IPP Solar (Bulk)	337
IPP Waste heat + Biomass	312
Total Generation (Excluding estimated figures)	44,923
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1120
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	48,487

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	51	27.81%
CEB Coal	75	40.58%
CEB Thermal Oil	7	4.04%
IPP Thermal	1	0.44%
IPP Wind	9	4.99%
CEB Wind	8	4.18%
Mini Hydro *	21	11.13%
IPP Solar *	11	6.10%
IPP Waste heat + BMP	1	0.73%
Total	185	

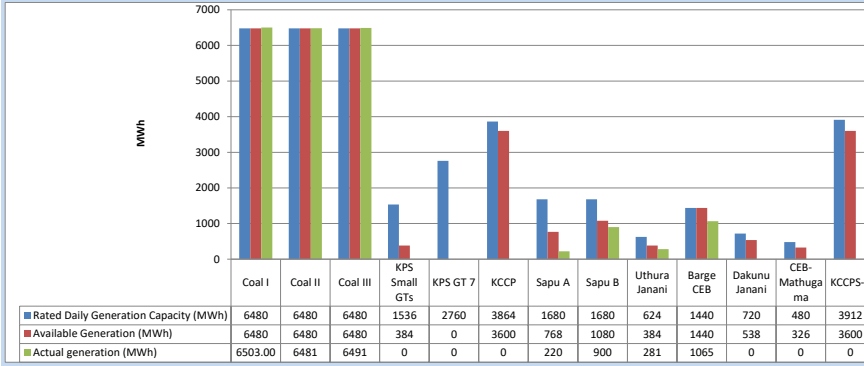
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,503	31.14%
CEB Coal	3,954	35.15%
CEB Thermal Oil	1,138	10.12%
IPP Thermal	510	4.53%
IPP Wind	272	2.42%
CEB Wind	273	2.43%
Mini Hydro *	814	7.24%
IPP Solar *	685	6.09%
IPP Waste heat	99	0.88%
Total	11,249	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 4, 2024

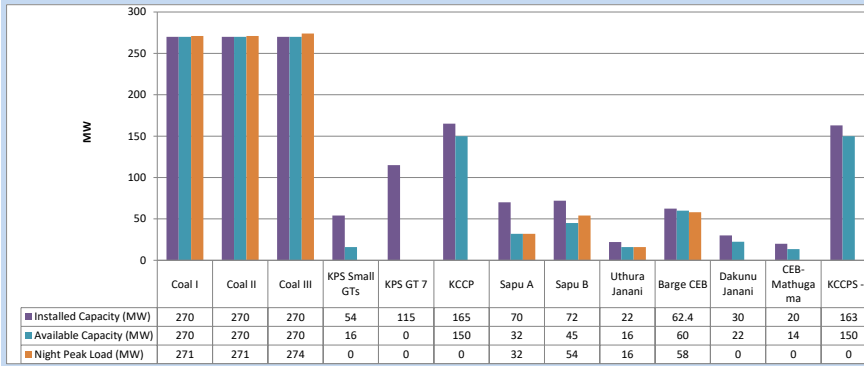


Available Generation is estimated based on plant availability at 6.00am on

September 5, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 4, 2024

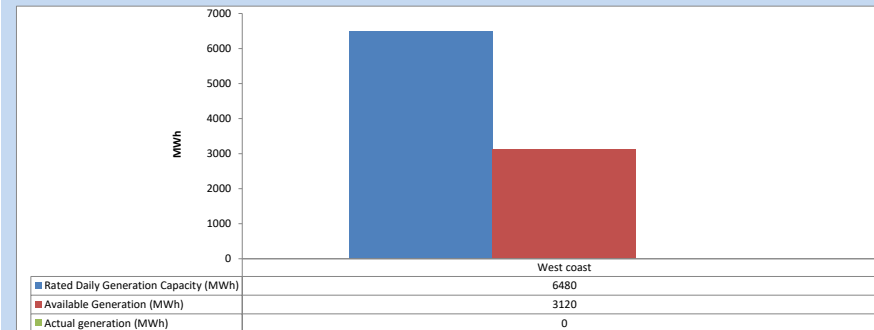


Plant availability is recorded at 6.00 am on

September 5, 2024

1.4 IPP owned Thermal Plant Dispatch

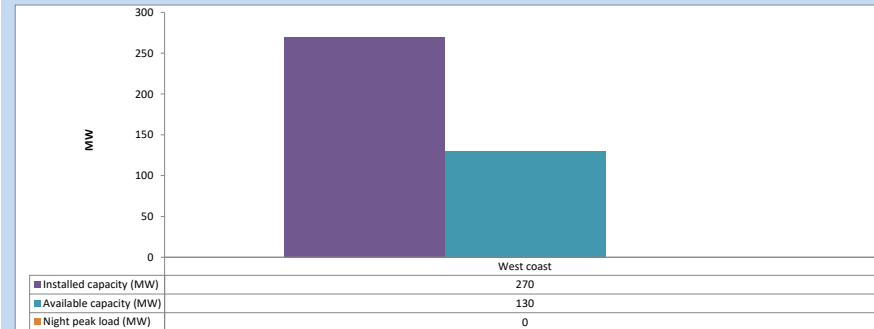
September 4, 2024



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

September 5, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

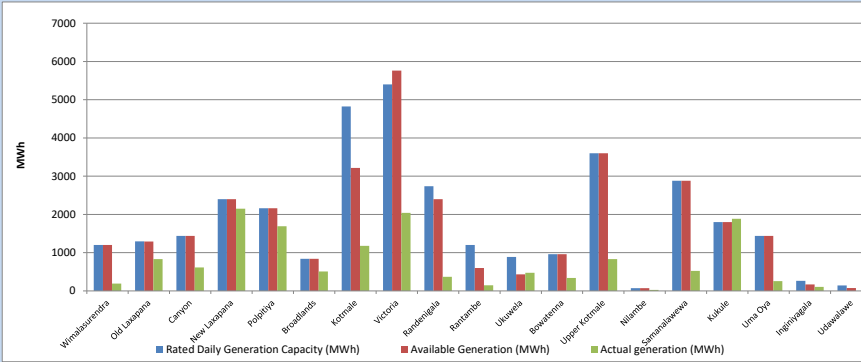


Plant availability is recorded at 6.00 am on

September 5, 2024

1.6 Major Hydro Plant Dispatch

September 4, 2024

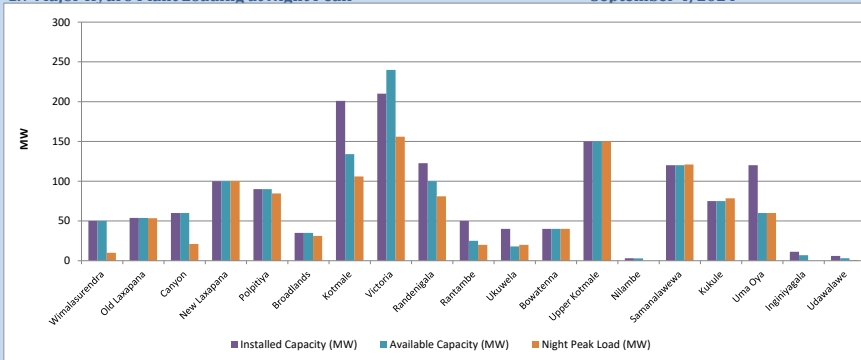


Available Generation is estimated based on plant availability at 6.00am on

September 5, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 4, 2024



Plant availability is recorded at 6.00 am on

September 5, 2024

1.8 Summary of Major Plant performance

September 4, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	10	192
Old Laxapana	54	54	53	832
Canyon	60	60	21	612
New Laxapana	100	100	100	2,149
Polpitiya	90	90	85	1,690
Broadlands	35	35	31	508
Kotmale	201	134	106	1,180
Victoria	210	240	156	2,040
Randeniigala	123	100	81	368
Rantambe	50	25	20	146
Ukuwela	40	18	20	475
Bowatenna	40	40	40	340
Upper Kotmale	150	150	150	832
Nilambe	3	3	0	26
Samanalawewa	120	120	121	524
Kukule	75	75	78	1,887
Uma Oya	120	60	60	257
Inginiyagala	11	7	0	107
Udawalawe	6	3	1	0
Puttalam Coal I	270	270	271	6,503
Puttalam Coal II	270	270	271	6,481
Puttalam Coal III	270	270	274	6,491
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	32	32	220
Sapugaskanda B	72	45	54	900
Uthura Janani	22	16	16	281
Barge CEB	62	60	58	1,065
CEB-Hambantota	30	22	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	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,809	2,454	44,925

Note-

Plant availability is the availability recorded at 6 am on

September 5, 2024

1.9 Contribution to the Night Peak in MW

September 4, 2024

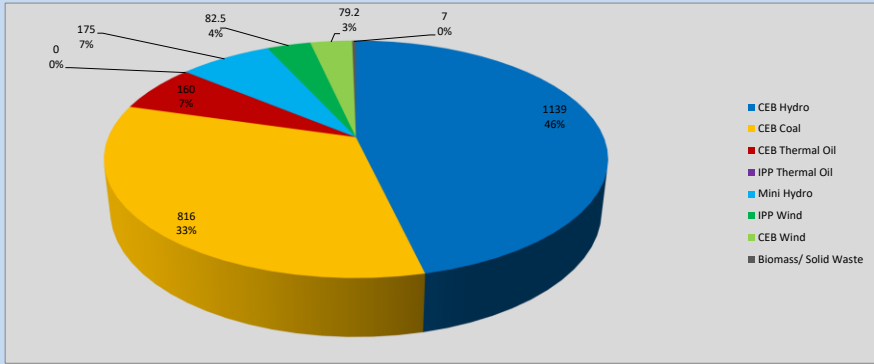


Table 05

CEB Hydro	1139	MW
CEB Coal	816	MW
CEB Thermal Oil	160	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	175	MW
IPP Wind	82.5	MW
CEB Wind	79.2	MW
Biomass/ Solid Waste	7	MW

Recorded Peak Demand Data

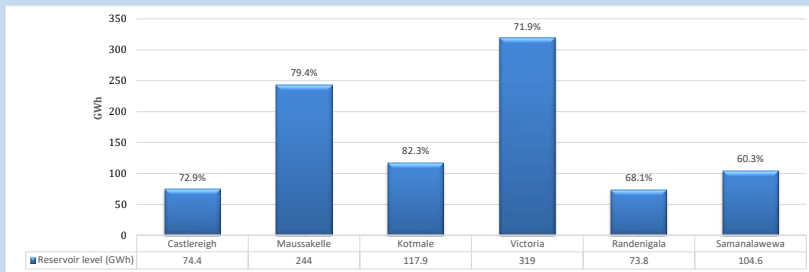
Table 06

Night Peak*	2,460	MW
Day Peak Maximum Demand	2,140	MW
Day Peak Minimum Demand	1,728	MW
Off Peak Minimum Demand	1,407	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 5, 2024



Total Reservoir Level 933.7 GWh
% of Total capacity 73.1%

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

September 4, 2024

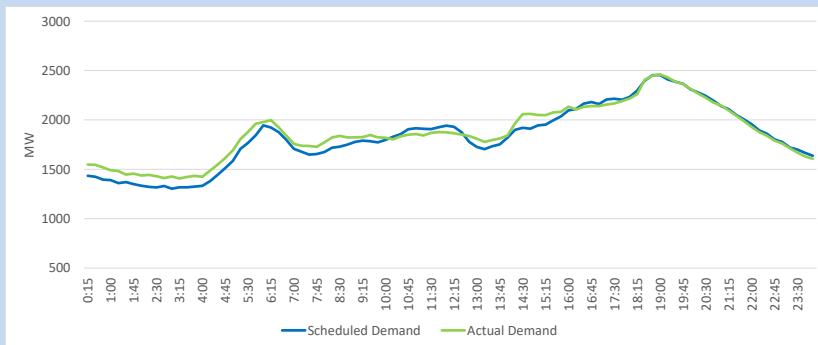
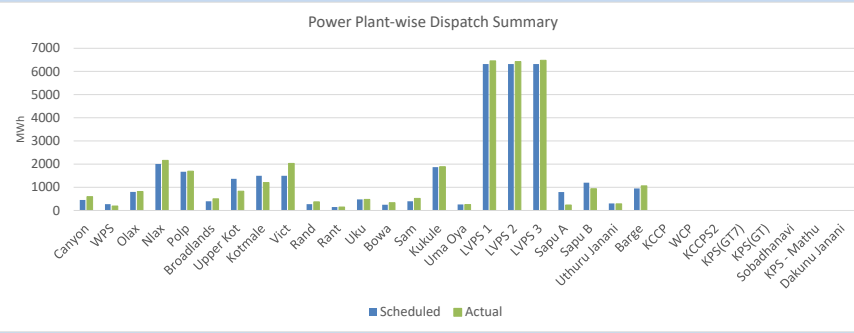


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,647	14,034	387
CEB Coal	18,960	19,360	400
CEB Thermal Oil	3,244	2,524	(721)
IPP Thermal Oil	-	-	-
IPP Wind (Telemetered)	8,089	8,936	847
Total	43,940	44,854	914

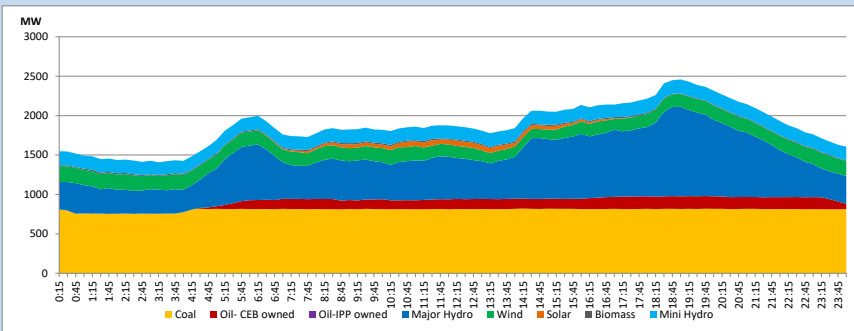
1.12 Power Plant-wise Dispatch Summary

September 4, 2024



1.13 Daily Load Curve

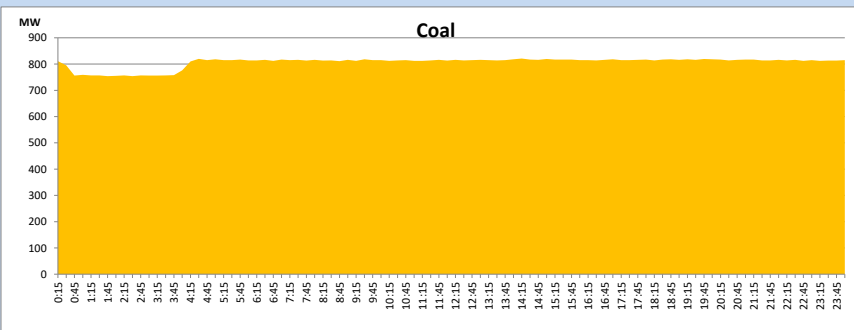
September 4, 2024



Solar and wind data is based on Telemetered Power Stations only

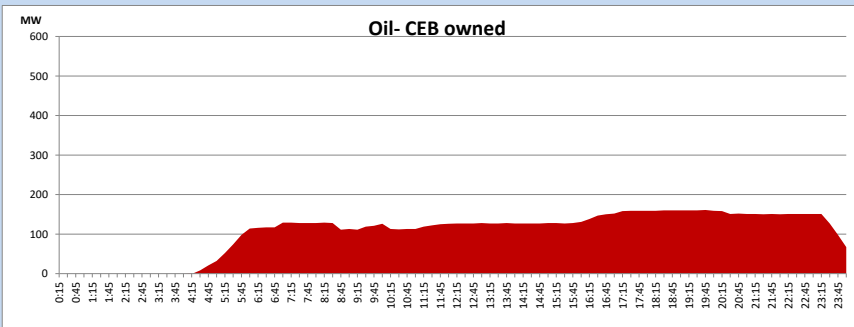
Coal Generation during

September 4, 2024

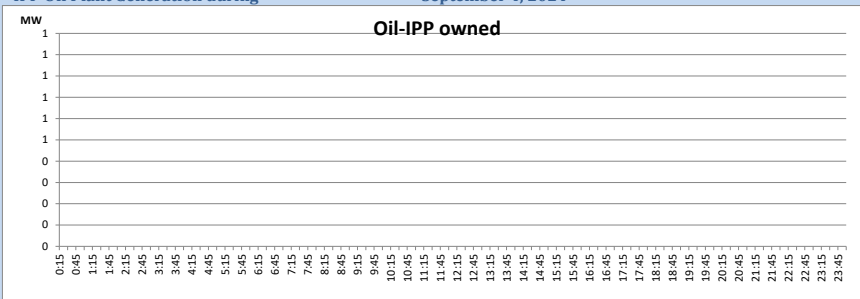


CEB Oil Plant Generation during

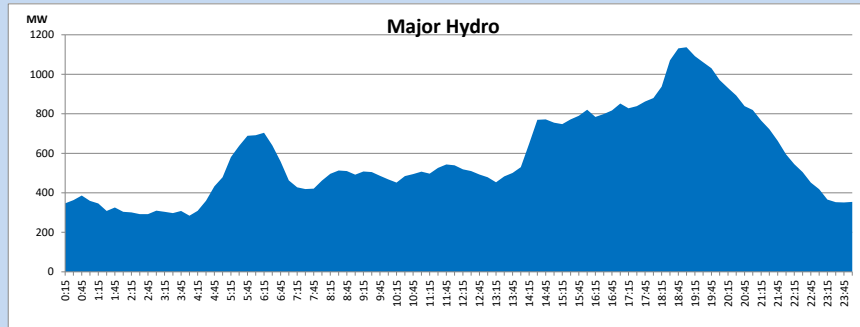
September 4, 2024



IPP Oil Plant Generation during September 4, 2024

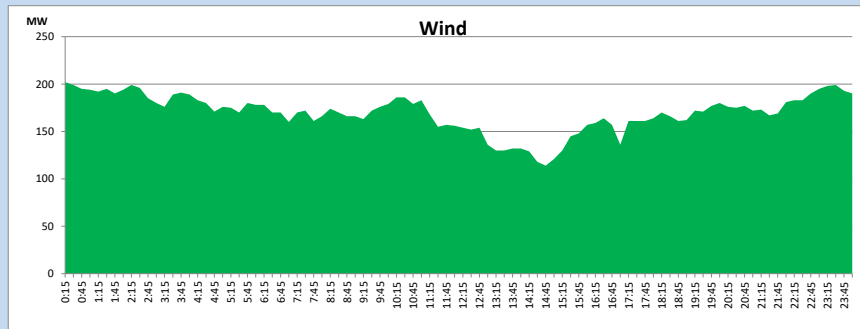


Major Hydro Generation during September 4, 2024



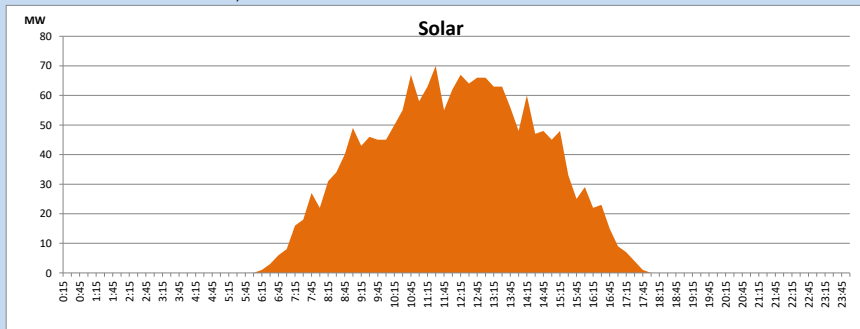
Wind Generation during September 4, 2024

Based on Telemetered Power Stations only



Solar Generation during September 4, 2024

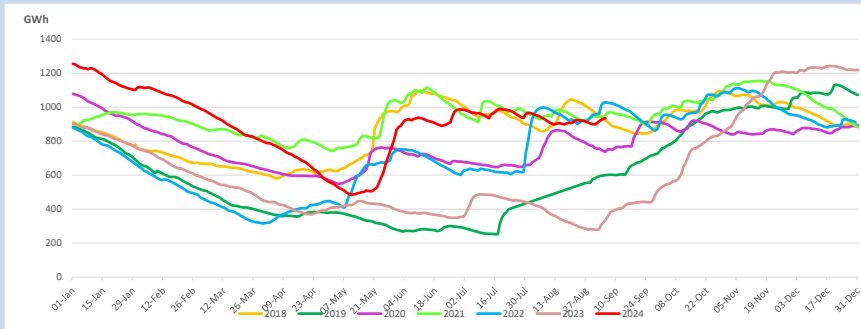
Based on Telemetered Power Stations only



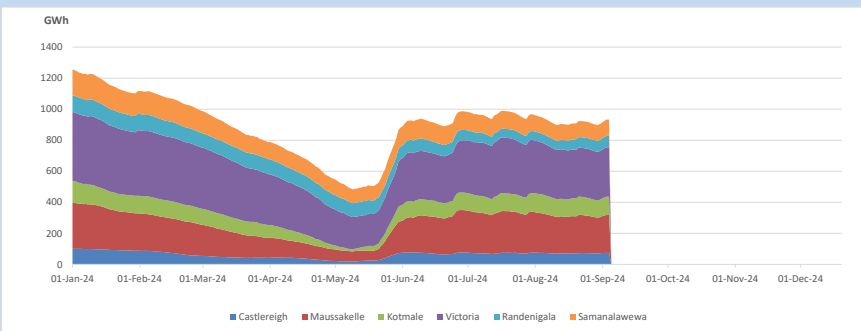
1.14 Major Incidents reported during the day September 4, 2024

- 1) Kukule pond spilling continues to the present hour.
- 2) Kerawalapitiya - Sub L 220kV cable tripped from Kerawalapitiya end at 15:20hrs without any indications. The cable was normalized at 18:56hrs.

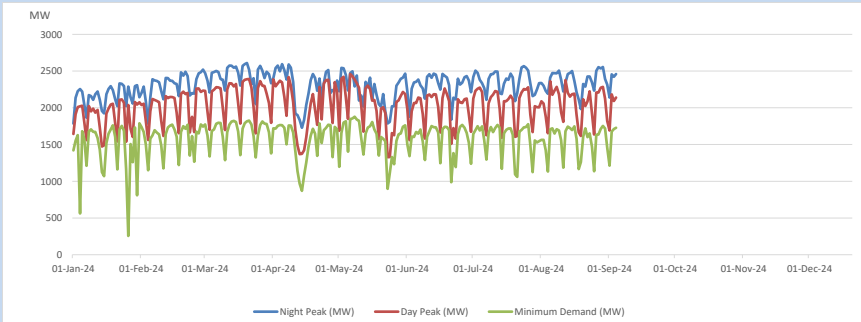
2. Comparison of Total Reservoir Storage Levels with Past Years



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

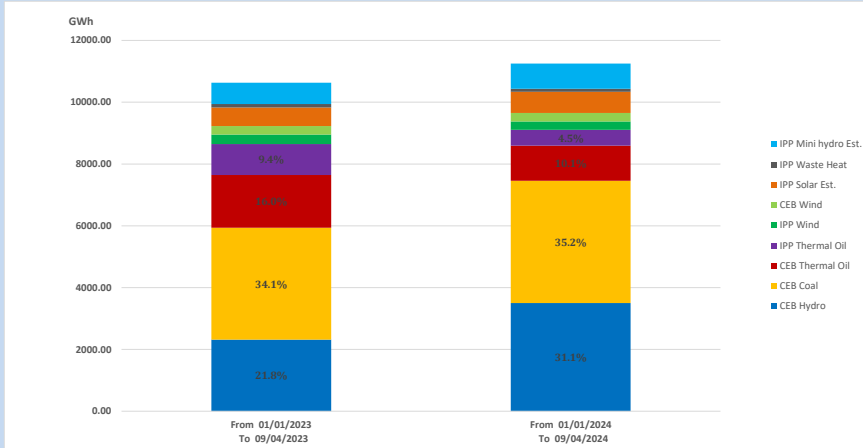


4. Variation of Demand during the current year



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 09/04/2023

10631 GWh

From 01/01/2024 To 09/03/2024

11249 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