

Generation and Reservoirs Statistics

September 10, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 10, 2024

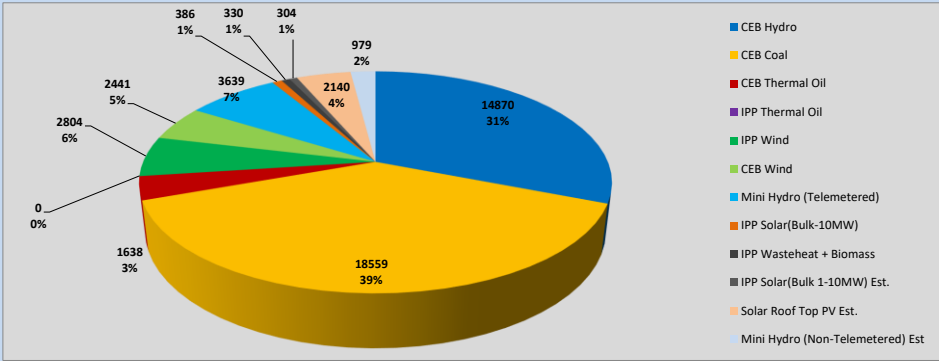


Table 01

	Generation (MWh)
CEB Hydro	14870
CEB Coal	18559
CEB Thermal Oil	1638
IPP Thermal Oil	0
IPP Wind	2804
CEB Wind	2441
Mini Hydro (Telemetered)	3639
IPP Solar (Bulk)	386
IPP Waste heat + Biomass	330
Total Generation (Excluding estimated figures)	44,667
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	979
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	48,090

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	132	28.26%
CEB Coal	189	40.67%
CEB Thermal Oil	21	4.58%
IPP Thermal	1	0.18%
IPP Wind	24	5.25%
CEB Wind	20	4.30%
Mini Hydro *	47	10.08%
IPP Solar *	28	6.08%
IPP Waste heat + BMP	3	0.62%
Total	466	

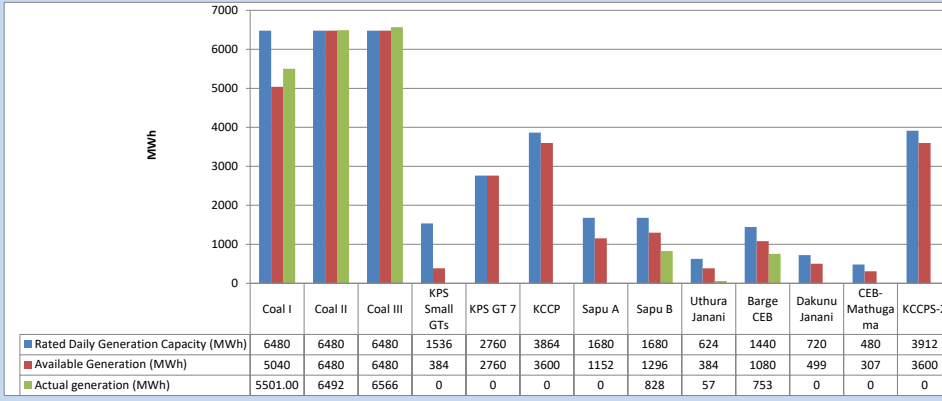
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,583	31.08%
CEB Coal	4,068	35.29%
CEB Thermal Oil	1,152	9.99%
IPP Thermal	510	4.42%
IPP Wind	287	2.49%
CEB Wind	286	2.48%
Mini Hydro *	840	7.29%
IPP Solar *	702	6.09%
IPP Waste heat	101	0.87%
Total	11,529	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 10, 2024

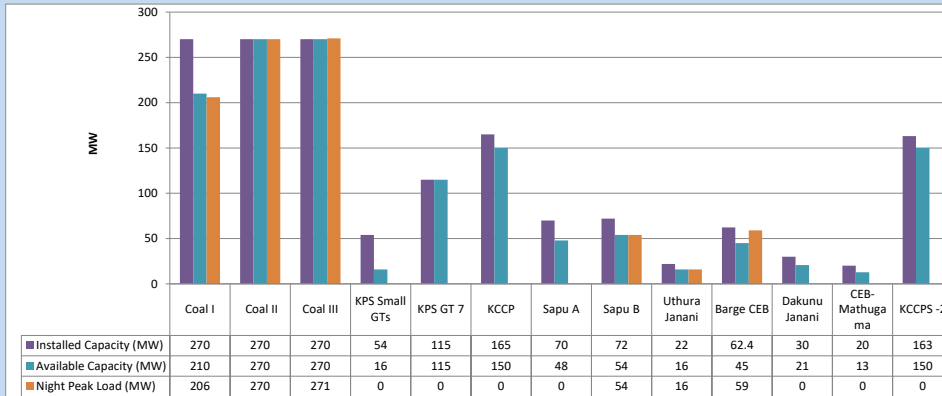


Available Generation is estimated based on plant availability at 6.00am on

September 11, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 10, 2024

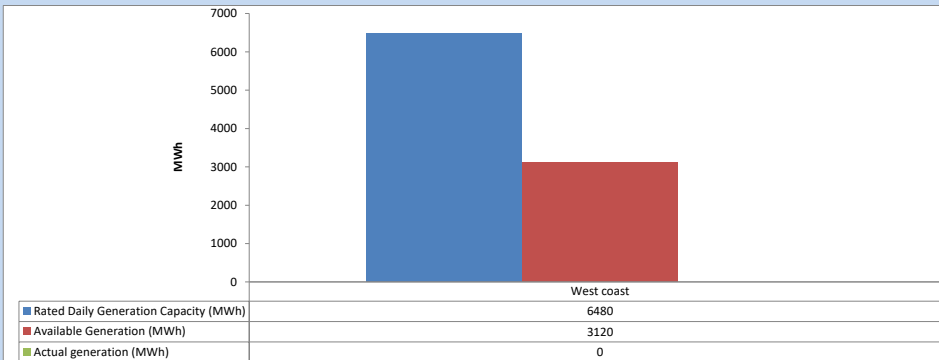


Plant availability is recorded at 6.00 am on

September 11, 2024

1.4 IPP owned Thermal Plant Dispatch

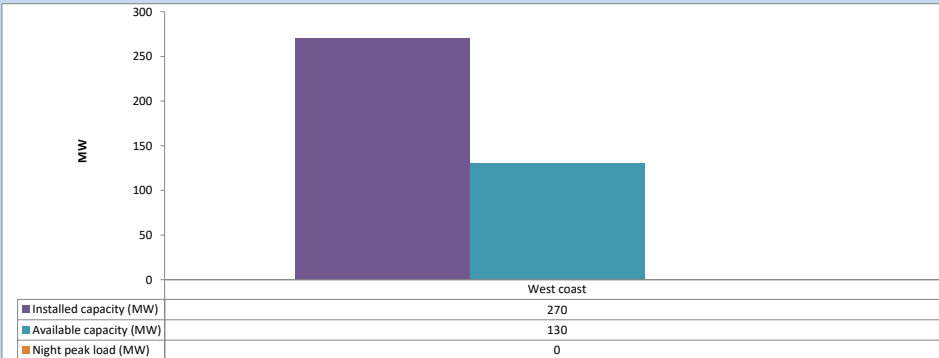
September 10, 2024



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

September 11, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

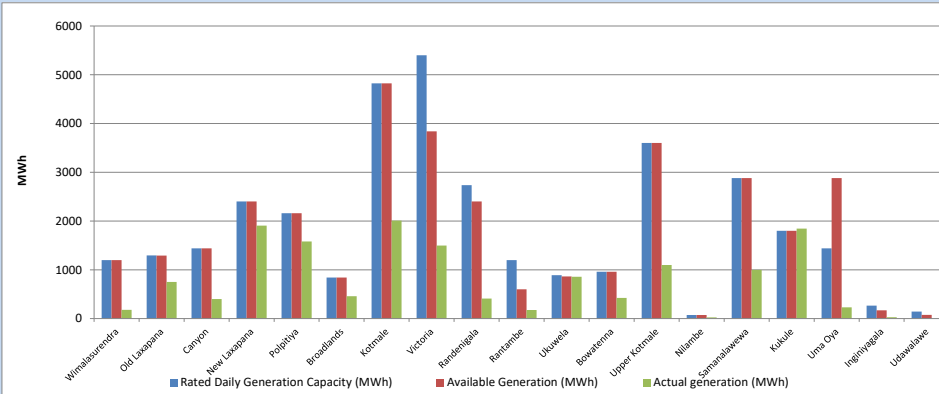


Plant availability is recorded at 6.00 am on

September 11, 2024

1.6 Major Hydro Plant Dispatch

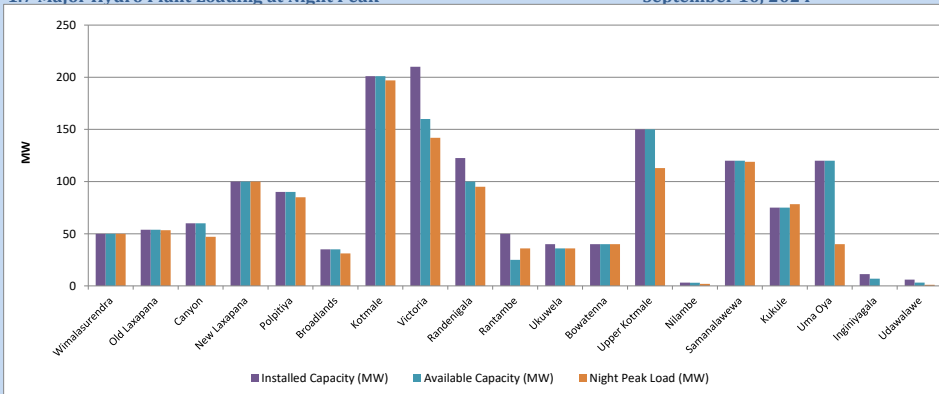
September 10, 2024



Available Generation is estimated based on plant availability at 6.00am on September 11, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 10, 2024



Plant availability is recorded at 6.00 am on September 11, 2024

1.8 Summary of Major Plant performance

September 10, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	179
Old Laxapana	54	54	53	752
Canyon	60	60	47	402
New Laxapana	100	100	100	1,905
Polpitiya	90	90	85	1,580
Broadlands	35	35	31	458
Kotmale	201	201	197	2,010
Victoria	210	160	142	1,498
Randenigala	123	100	95	409
Rantambe	50	25	36	176
Ukuwela	40	36	36	859
Bowatenna	40	40	40	422
Upper Kotmale	150	150	113	1,099
Nilambe	3	3	2	23
Samanalawewa	120	120	119	999
Kukule	75	75	78	1,844
Uma Oya	120	120	40	230
Inginipigala	11	7	0	26
Udawalawe	6	3	1	0
Puttalam Coal I	270	210	206	5,501
Puttalam Coal II	270	270	270	6,492
Puttalam Coal III	270	270	271	6,566
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	0	0
Sapugaskanda B	72	54	54	828
Uthura Janani	22	16	16	57
Barge CEB	62	45	59	753
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	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
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,937	2,517	44,668

Note- Plant availability is the availability recorded at 6 am on September 11, 2024

1.9 Contribution to the Night Peak in MW

September 10, 2024

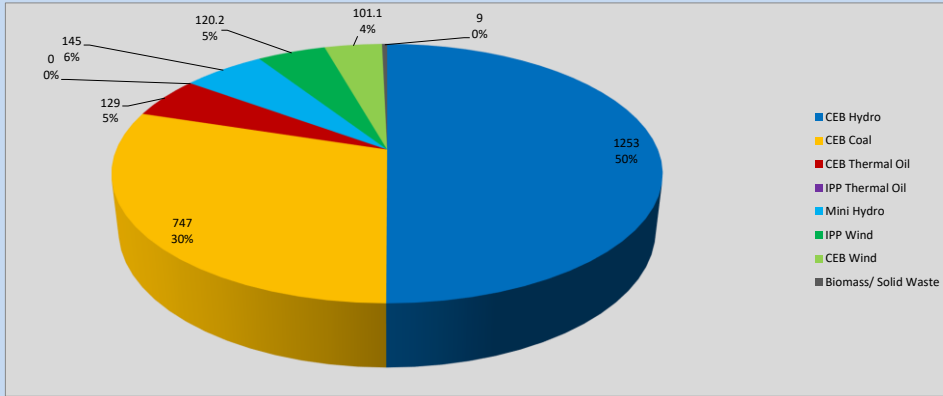


Table 05

CEB Hydro	1253	MW
CEB Coal	747	MW
CEB Thermal Oil	129	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	145	MW
IPP Wind	120.2	MW
CEB Wind	101.1	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

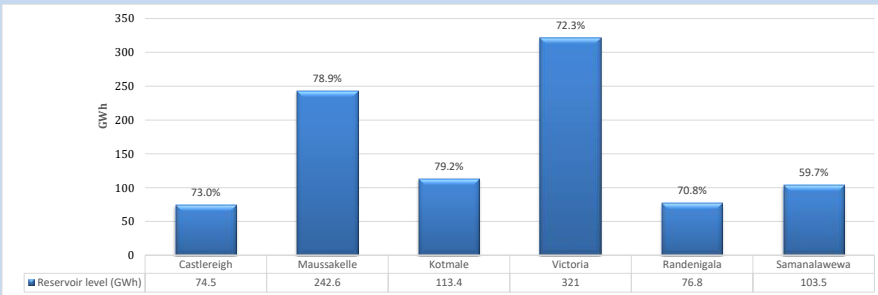
Table 06

Night Peak*	2,505	MW
Day Peak Maximum Demand	2,182	MW
Day Peak Minimum Demand	1,631	MW
Off Peak Minimum Demand	1,451	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 11, 2024



Total Reservoir Level
% of Total capacity

931.8 GWh
72.9%

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

September 10, 2024

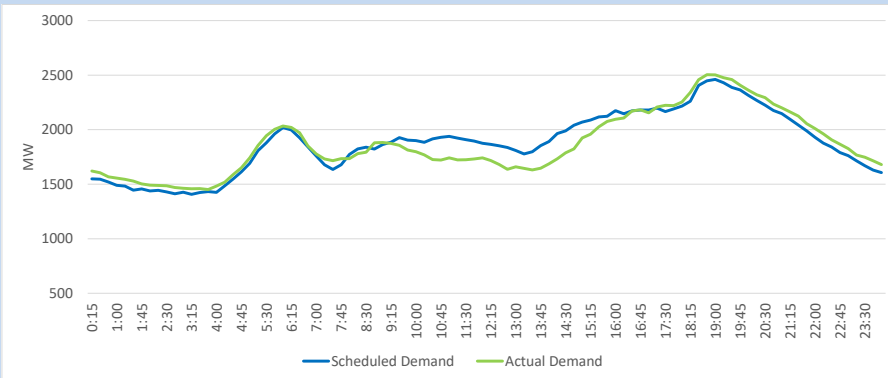
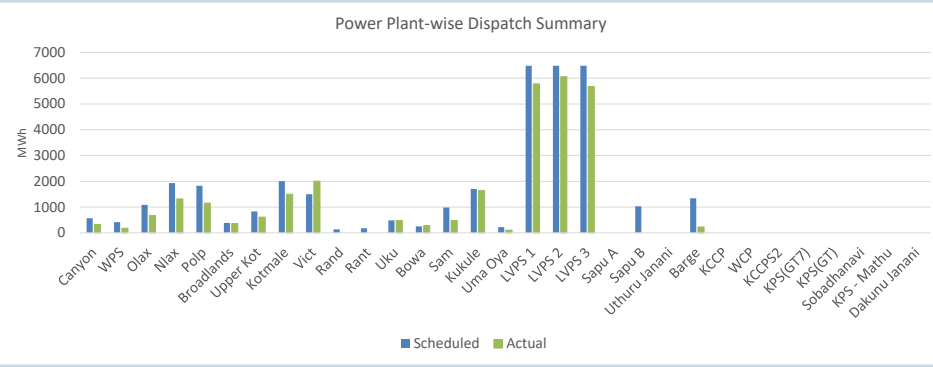


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,476	11,093	(3,383)
CEB Coal	19,440	17,502	(1,938)
CEB Thermal Oil	2,367	228	(2,138)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,813	9,764	951
Total	45,096	38,588	-6508

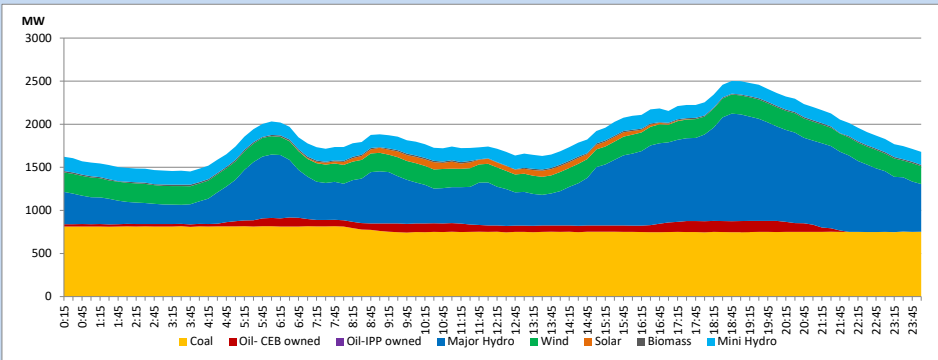
1.12 Power Plant-wise Dispatch Summary

September 10, 2024



1.13 Daily Load Curve

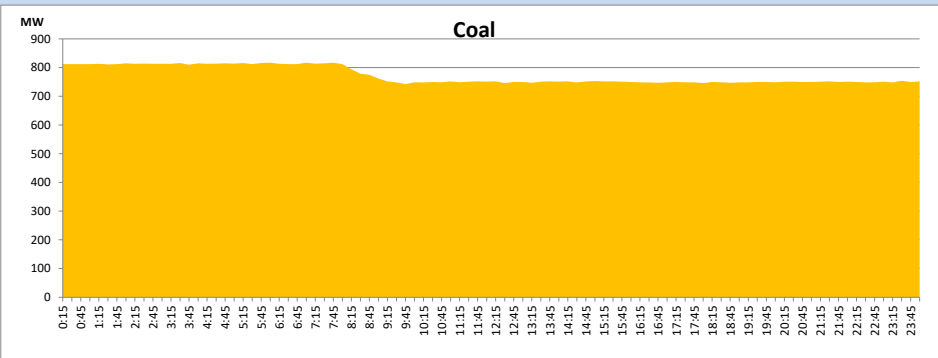
September 10, 2024



Solar and wind data is based on Telemetered Power Stations only

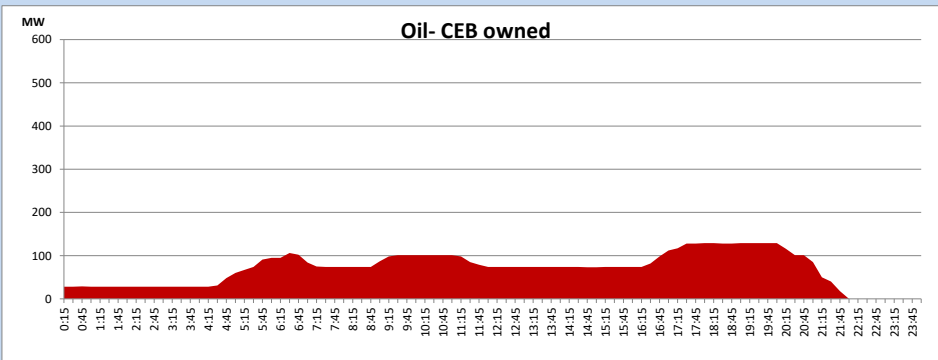
Coal Generation during

September 10, 2024

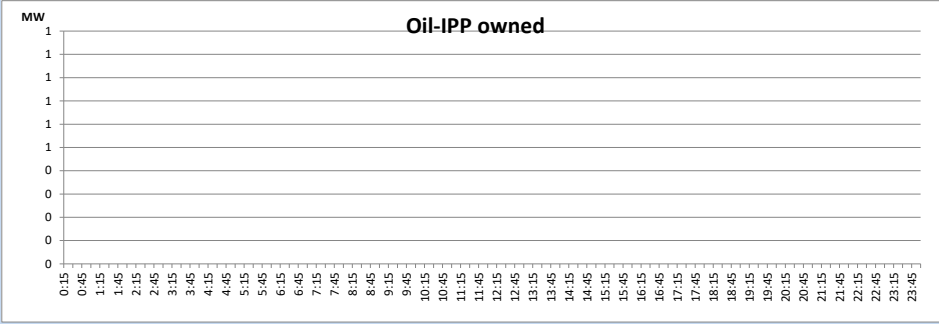


CEB Oil Plant Generation during

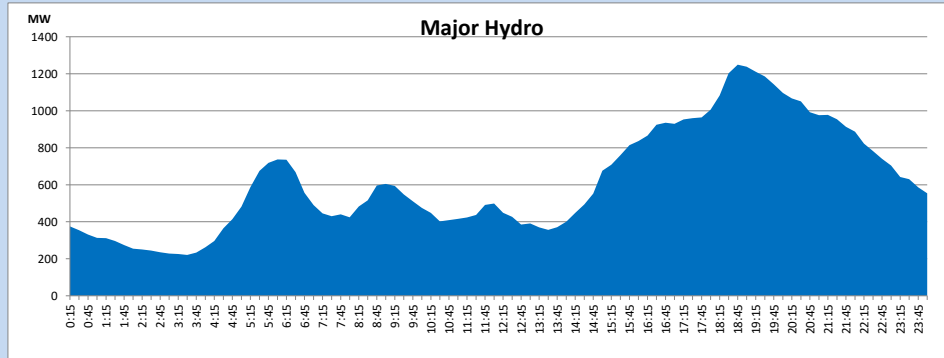
September 10, 2024



IPP Oil Plant Generation during September 10, 2024

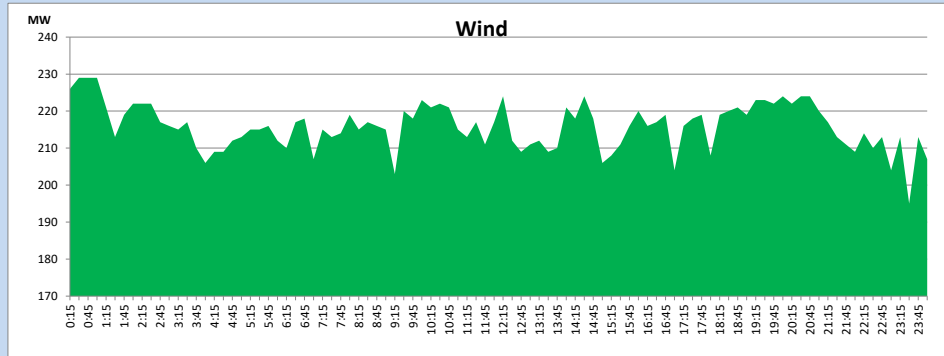


Major Hydro Generation during September 10, 2024



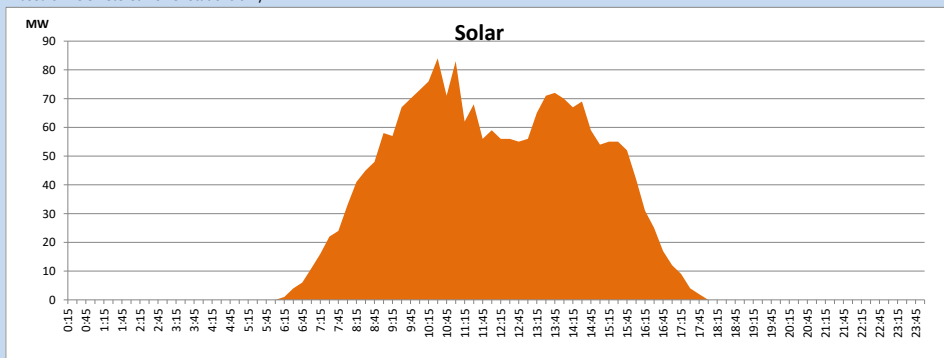
Wind Generation during September 10, 2024

Based on Telemetered Power Stations only



Solar Generation during September 10, 2024

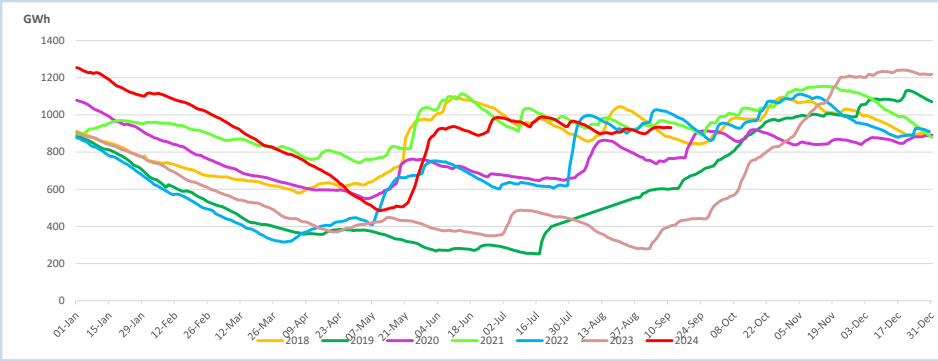
Based on Telemetered Power Stations only



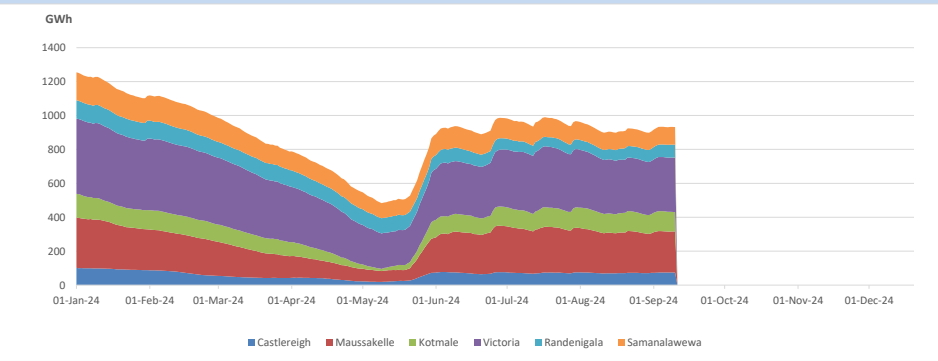
1.14 Major Incidents reported during the day September 10, 2024

- 1) LVPS Unit 01 deloaded to 210MW (net) at 10:00hrs due to CW pump travelling screen A breakdown. The unit is yet to reach full load.
- 2) Polpitiya - O'Laxapana 132kV cct 01 tripped from both ends at 12:20hrs due to the operation of inverse E/F protection. The cct was normalized at 13:10hrs.

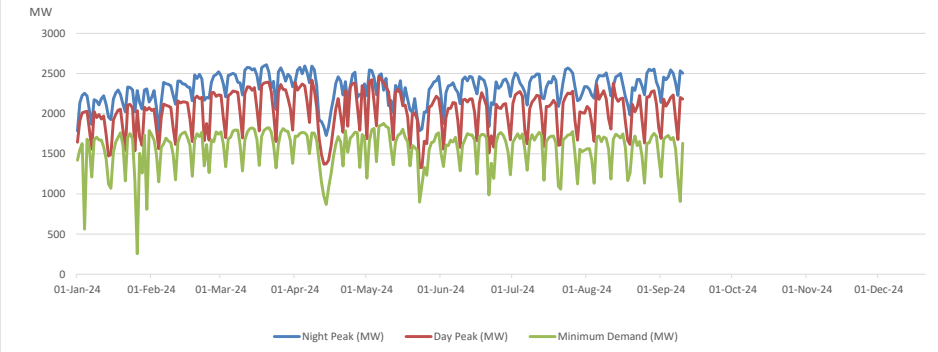
2. Comparison of Total Reservoir Storage Levels with Past Years



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

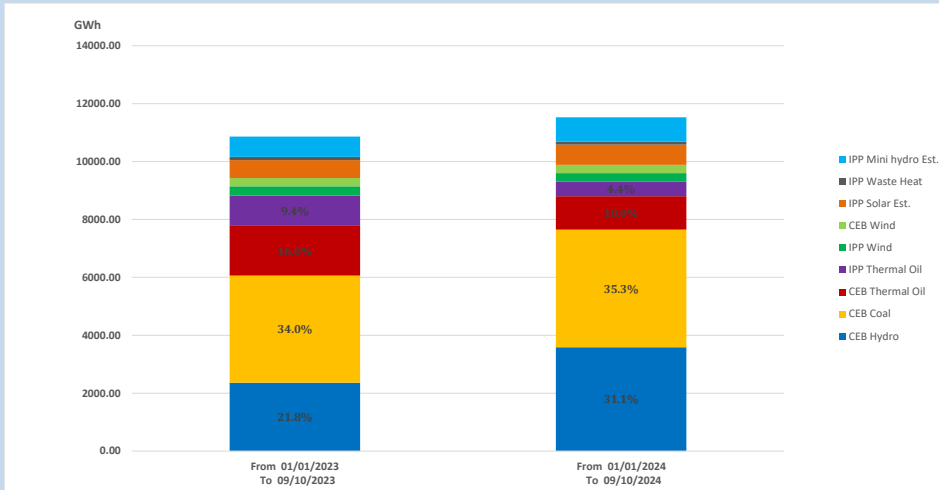


4. Variation of Demand during the current year



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 09/10/2023

10861 GWh

From 01/01/2024 To 09/10/2024

11529 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