

Generation and Reservoirs Statistics

September 11, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 11, 2024

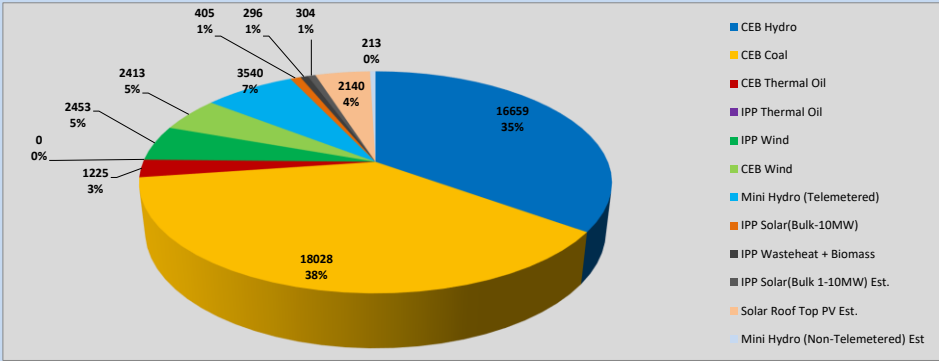


Table 01

	Generation (MWh)
CEB Hydro	16659
CEB Coal	18028
CEB Thermal Oil	1225
IPP Thermal Oil	0
IPP Wind	2453
CEB Wind	2413
Mini Hydro (Telemetered)	3540
IPP Solar (Bulk)	405
IPP Waste heat + Biomass	296
Total Generation (Excluding estimated figures)	45,019
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	213
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	47,676

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	148	28.88%
CEB Coal	207	40.40%
CEB Thermal Oil	23	4.39%
IPP Thermal	1	0.16%
IPP Wind	27	5.24%
CEB Wind	22	4.37%
Mini Hydro *	51	9.87%
IPP Solar *	31	6.07%
IPP Waste heat + BMP	3	0.62%
Total	513	

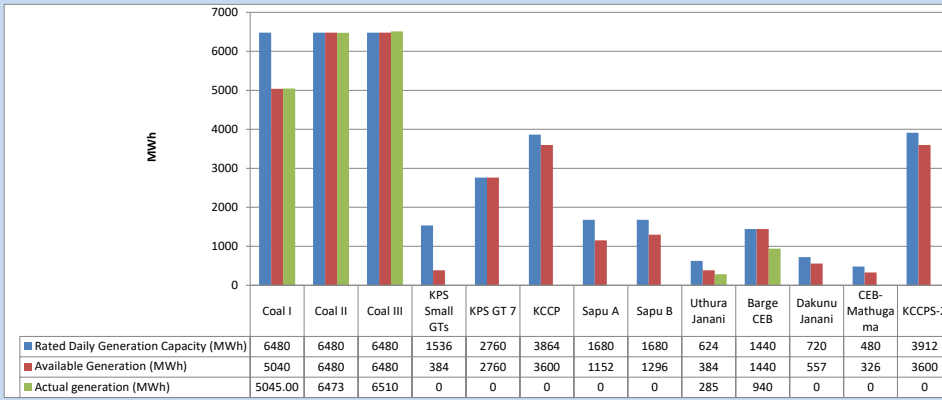
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,600	31.09%
CEB Coal	4,086	35.30%
CEB Thermal Oil	1,153	9.96%
IPP Thermal	510	4.40%
IPP Wind	290	2.50%
CEB Wind	288	2.49%
Mini Hydro *	844	7.29%
IPP Solar *	705	6.09%
IPP Waste heat	101	0.87%
Total	11,577	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 11, 2024

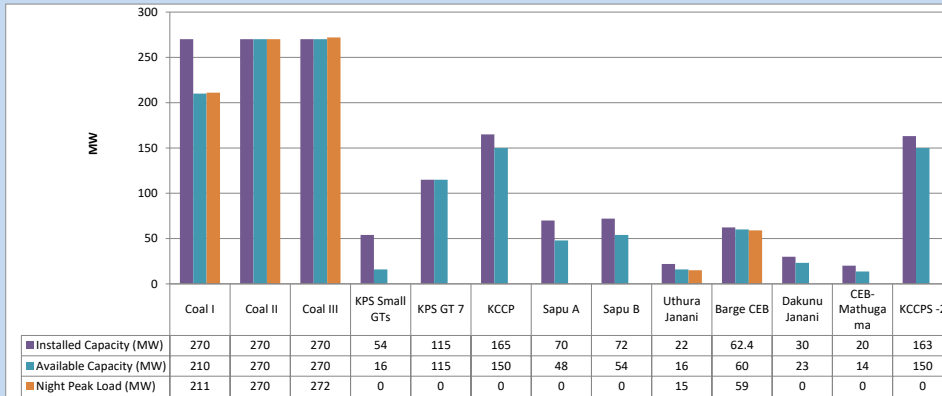


Available Generation is estimated based on plant availability at 6.00am on

September 12, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 11, 2024

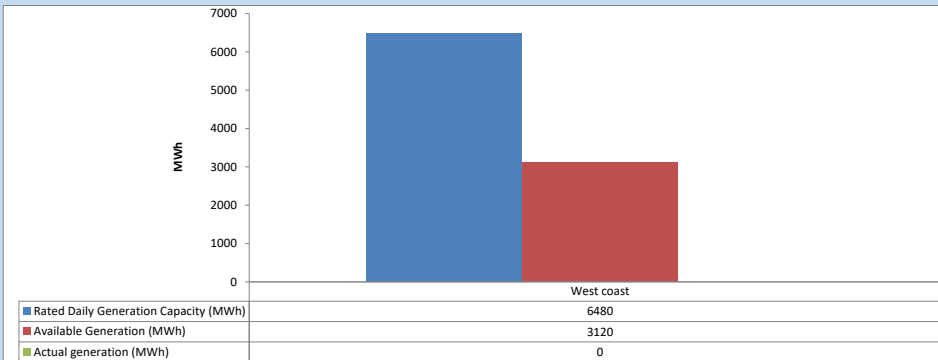


Plant availability is recorded at 6.00 am on

September 12, 2024

1.4 IPP owned Thermal Plant Dispatch

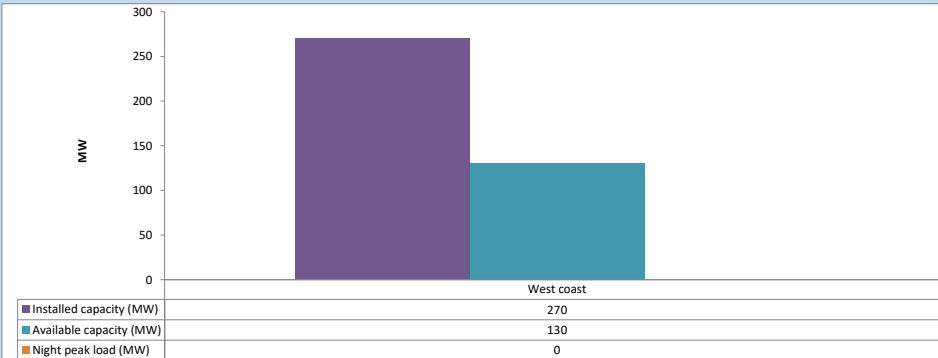
September 11, 2024



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

September 12, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

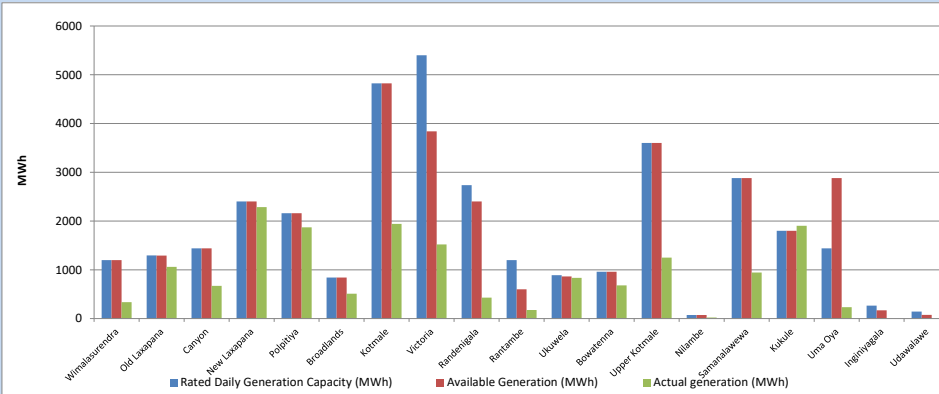


Plant availability is recorded at 6.00 am on

September 12, 2024

1.6 Major Hydro Plant Dispatch

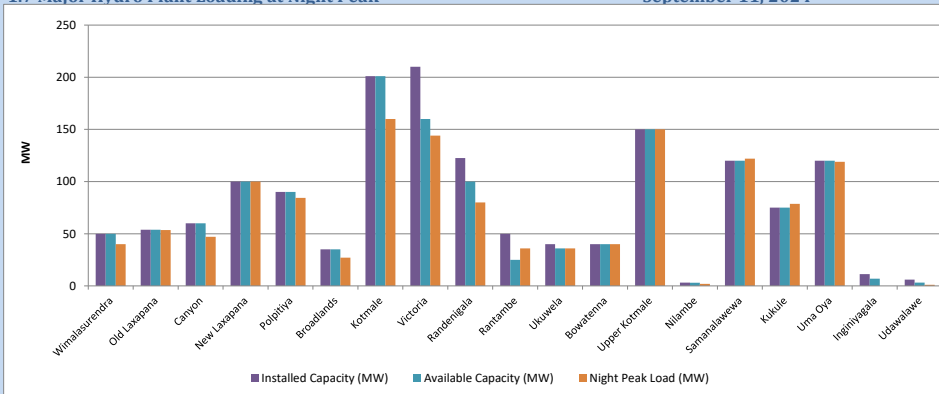
September 11, 2024



Available Generation is estimated based on plant availability at 6.00am on September 12, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 11, 2024



Plant availability is recorded at 6.00 am on September 12, 2024

1.8 Summary of Major Plant performance

September 11, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	40	335
Old Laxapana	54	54	54	1,060
Canyon	60	60	47	670
New Laxapana	100	100	100	2,285
Polpitiya	90	90	84	1,870
Broadlands	35	35	27	510
Kotmale	201	201	160	1,940
Victoria	210	160	144	1,521
Randenigala	123	100	80	431
Rantambe	50	25	36	175
Ukuwela	40	36	36	834
Bowatenna	40	40	40	679
Upper Kotmale	150	150	150	1,249
Nilambe	3	3	2	21
Samanalawewa	120	120	122	944
Kukule	75	75	79	1,902
Uma Oya	120	120	119	233
Inginiyagala	11	7	0	0
Udawalawe	6	3	1	0
Puttalam Coal I	270	210	211	5,045
Puttalam Coal II	270	270	270	6,473
Puttalam Coal III	270	270	272	6,510
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	0	0
Uthura Janani	22	16	15	285
Barge CEB	62	60	59	940
CEB-Hambantota	30	23	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	2,955	2,502	45,019

Note- Plant availability is the availability recorded at 6 am on September 12, 2024

1.9 Contribution to the Night Peak in MW

September 11, 2024

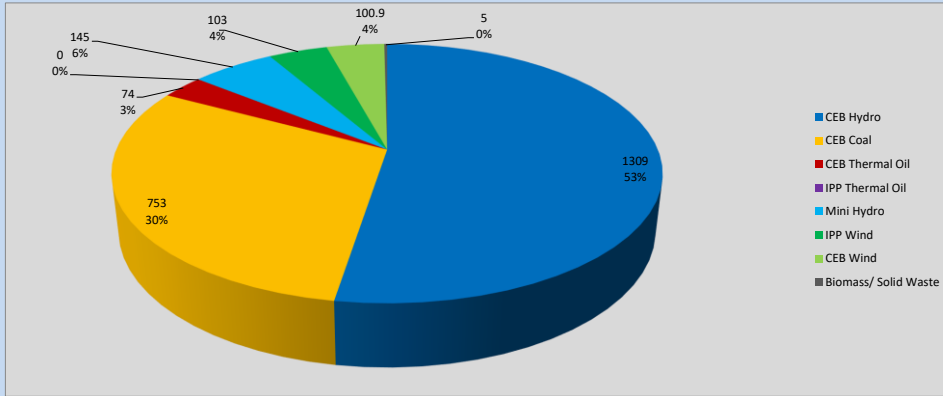


Table 05

CEB Hydro	1309	MW
CEB Coal	753	MW
CEB Thermal Oil	74	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	145	MW
IPP Wind	103	MW
CEB Wind	100.9	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

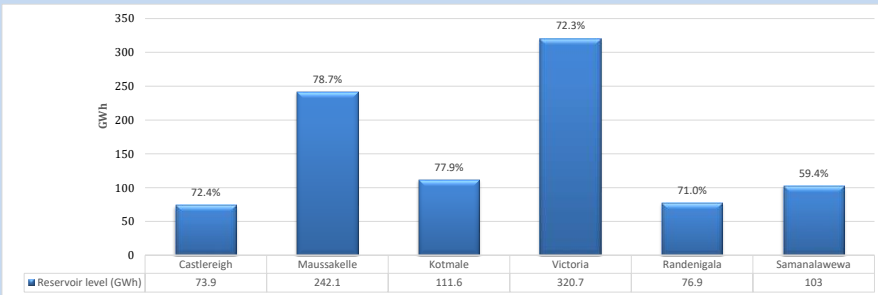
Table 06

Night Peak*	2,490	MW
Day Peak Maximum Demand	2,218	MW
Day Peak Minimum Demand	1,741	MW
Off Peak Minimum Demand	1,470	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 12, 2024



Total Reservoir Level
928.2 GWh
% of Total capacity
72.6%

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

September 11, 2024

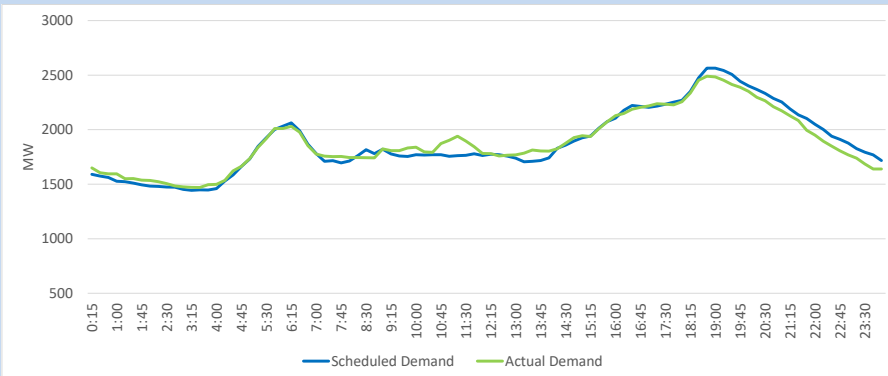
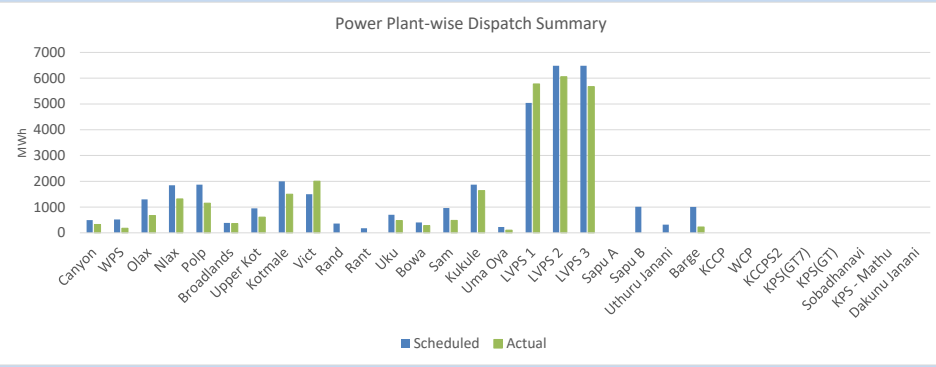


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,551	11,093	(4,458)
CEB Coal	18,000	17,502	(498)
CEB Thermal Oil	2,339	228	(2,111)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	9,338	9,282	(57)
Total	45,228	38,105	-7,123

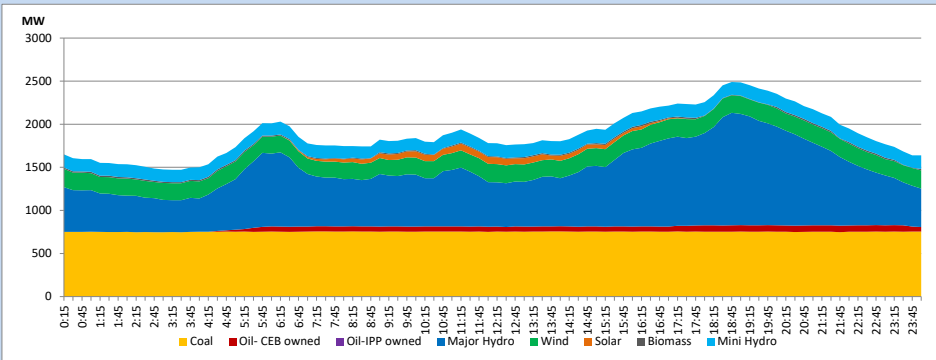
1.12 Power Plant-wise Dispatch Summary

September 11, 2024



1.13 Daily Load Curve

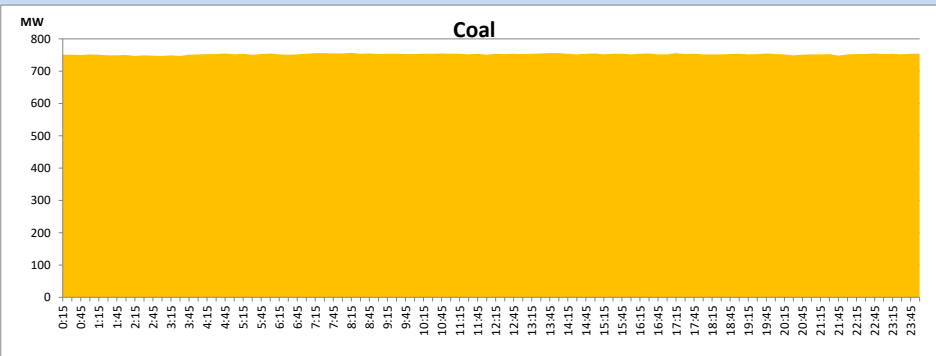
September 11, 2024



Solar and wind data is based on Telemetered Power Stations only

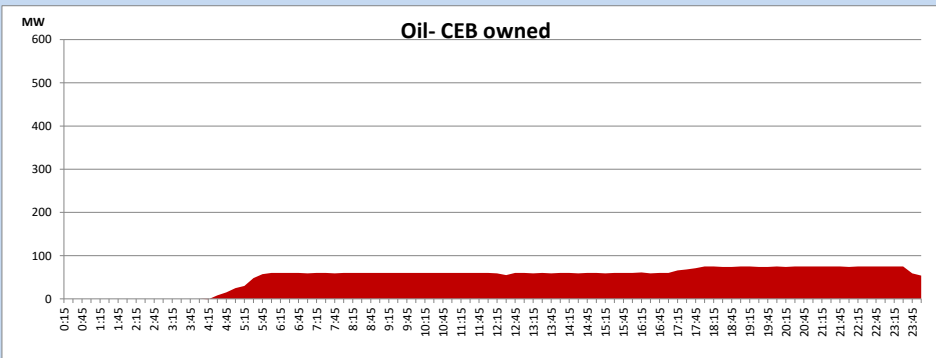
Coal Generation during

September 11, 2024

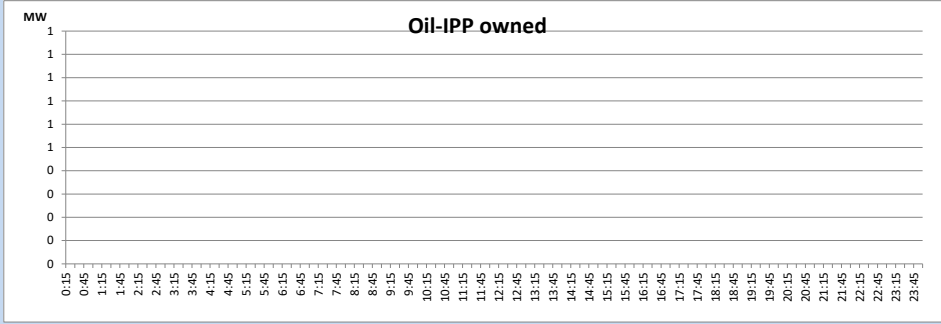


CEB Oil Plant Generation during

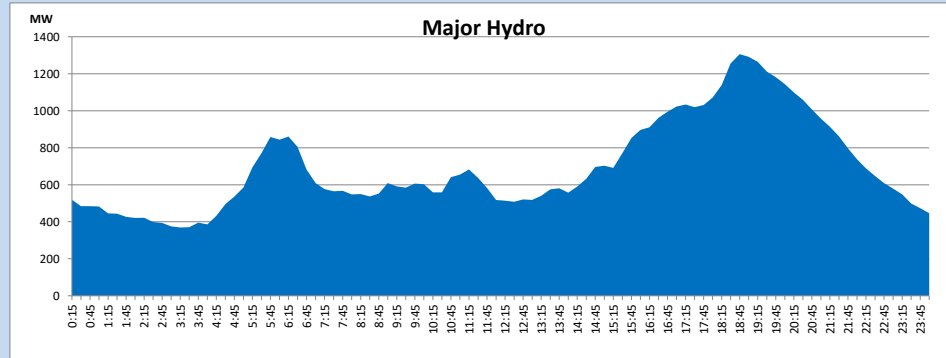
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IPP Oil Plant Generation during September 11, 2024

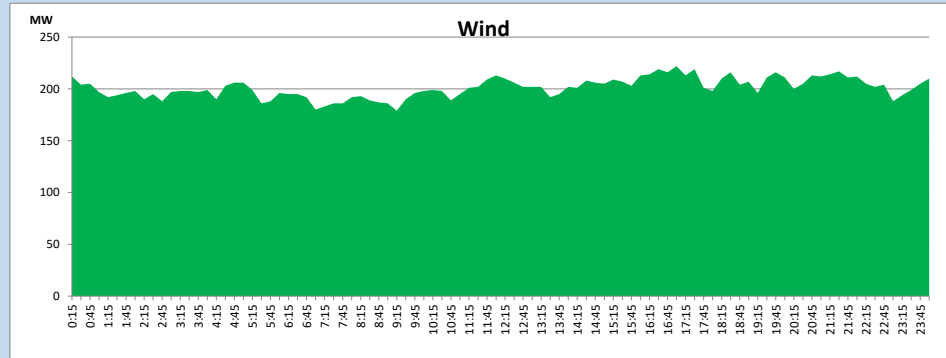


Major Hydro Generation during September 11, 2024



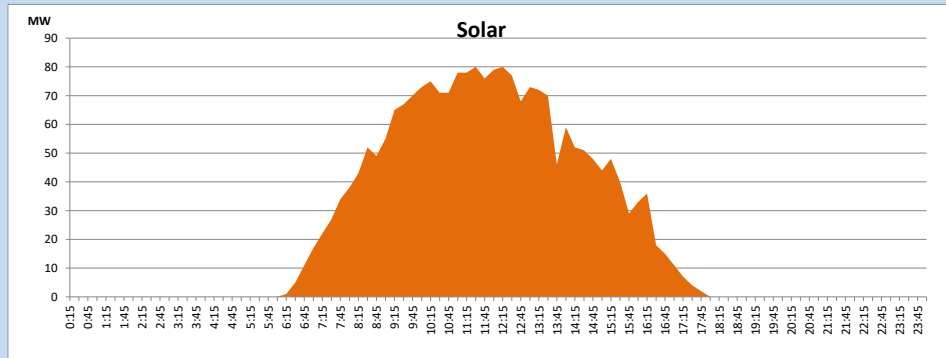
Wind Generation during September 11, 2024

Based on Telemetered Power Stations only



Solar Generation during September 11, 2024

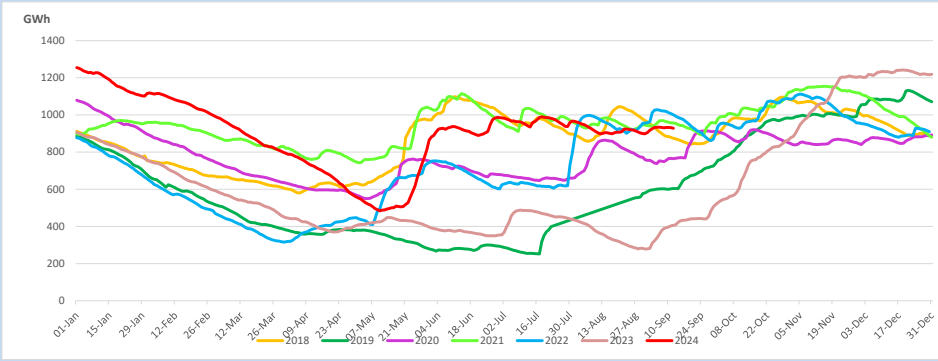
Based on Telemetered Power Stations only



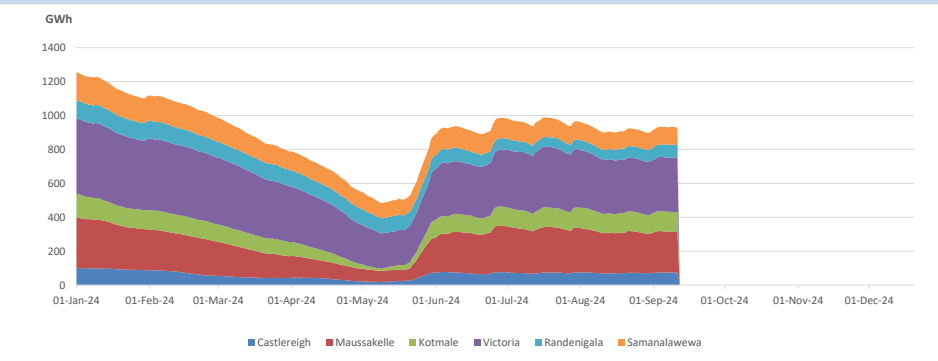
1.14 Major Incidents reported during the day September 11, 2024

01) Nil

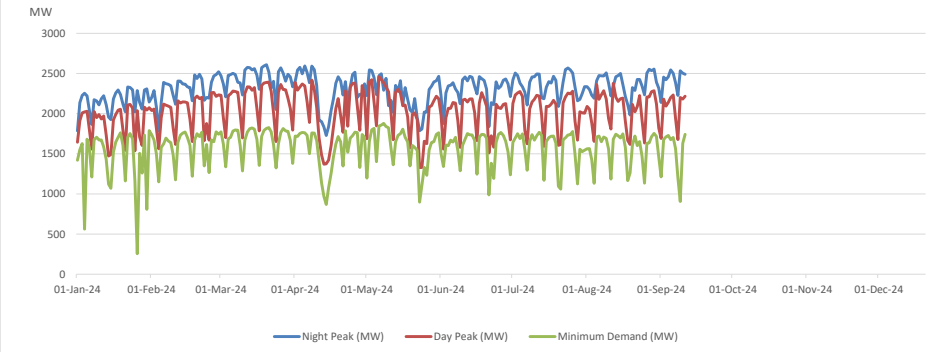
2. Comparison of Total Reservoir Storage Levels with Past Years



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

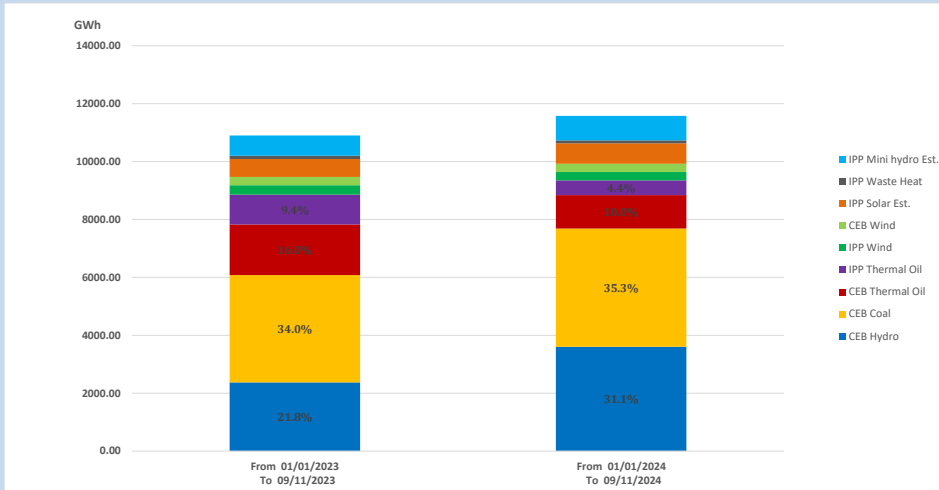


4. Variation of Demand during the current year



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 09/11/2023

10901 GWh

From 01/01/2024 To 09/11/2024

11577 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