

Generation and Reservoirs Statistics

September 12, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 12, 2024

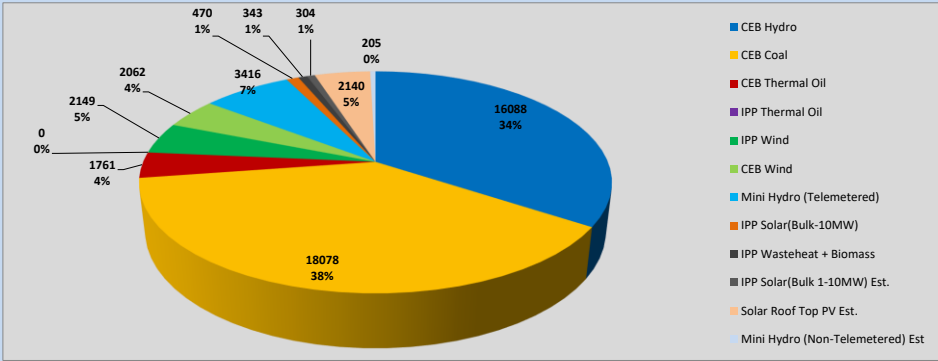


Table 01

	Generation (MWh)
CEB Hydro	16088
CEB Coal	18078
CEB Thermal Oil	1761
IPP Thermal Oil	0
IPP Wind	2149
CEB Wind	2062
Mini Hydro (Telemetered)	3416
IPP Solar (Bulk)	470
IPP Waste heat + Biomass	343
Total Generation (Excluding estimated figures)	44,367
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	205
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	47,016

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	164	29.33%
CEB Coal	225	40.24%
CEB Thermal Oil	24	4.34%
IPP Thermal	1	0.15%
IPP Wind	29	5.19%
CEB Wind	24	4.37%
Mini Hydro *	54	9.69%
IPP Solar *	34	6.08%
IPP Waste heat + BMP	4	0.63%
Total	560	

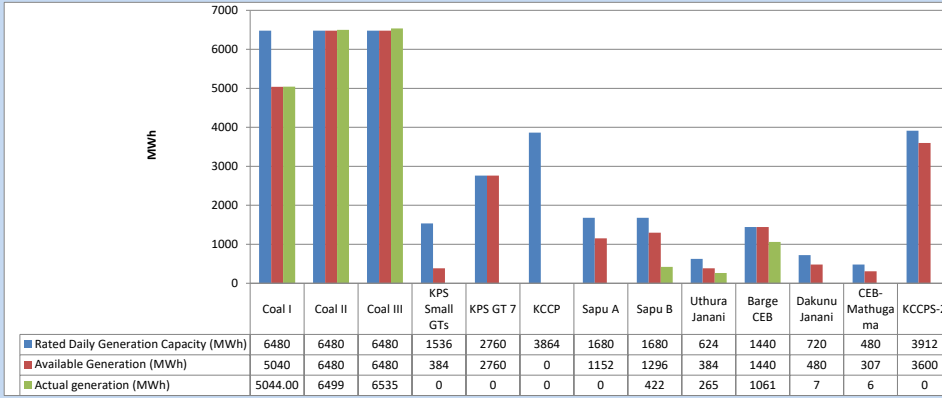
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,616	31.11%
CEB Coal	4,104	35.31%
CEB Thermal Oil	1,155	9.94%
IPP Thermal	510	4.39%
IPP Wind	292	2.51%
CEB Wind	290	2.49%
Mini Hydro *	848	7.29%
IPP Solar *	708	6.09%
IPP Waste heat	101	0.87%
Total	11,624	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 12, 2024

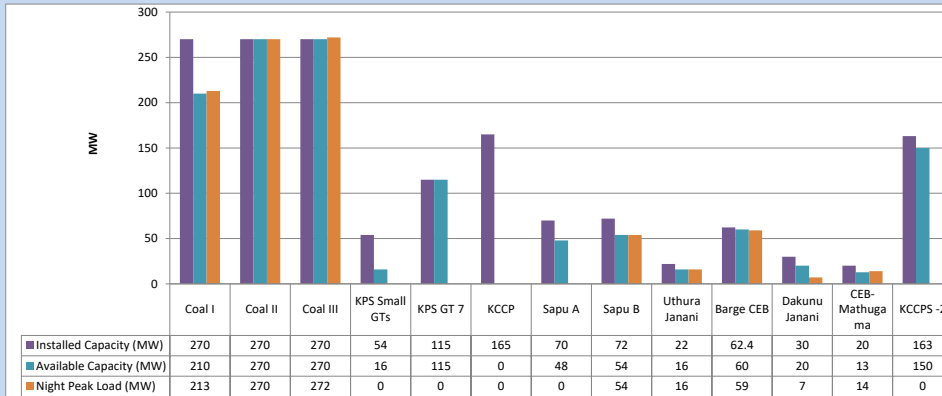


Available Generation is estimated based on plant availability at 6.00am on

September 13, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 12, 2024

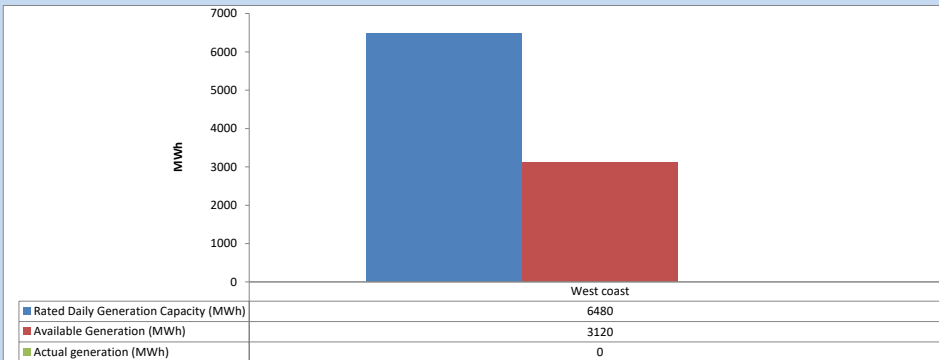


Plant availability is recorded at 6.00 am on

September 13, 2024

1.4 IPP owned Thermal Plant Dispatch

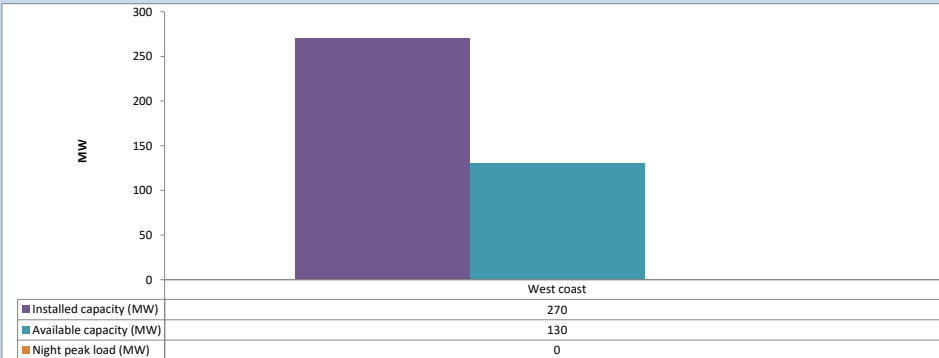
September 12, 2024



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

September 13, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

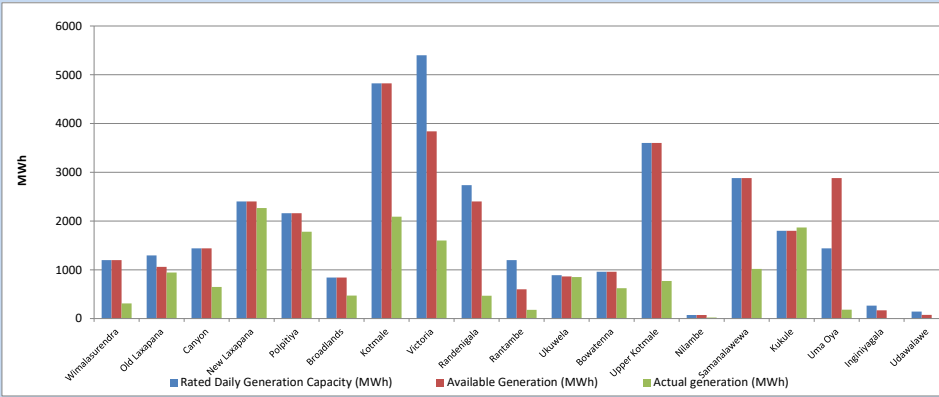


Plant availability is recorded at 6.00 am on

September 13, 2024

1.6 Major Hydro Plant Dispatch

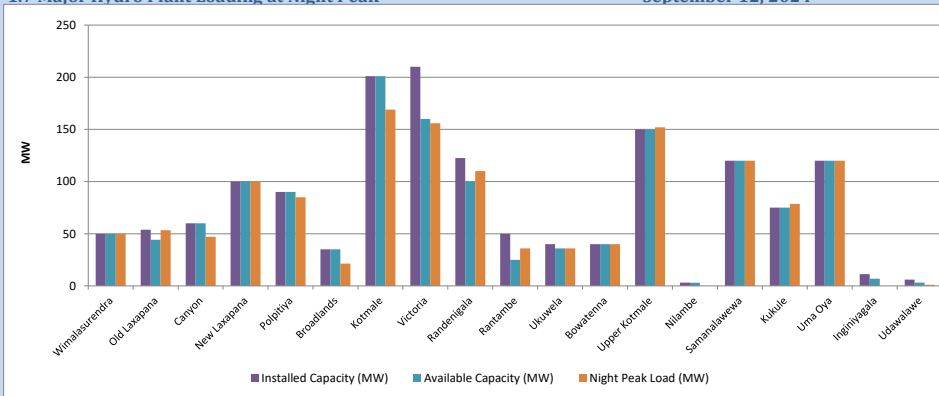
September 12, 2024



Available Generation is estimated based on plant availability at 6.00am on September 13, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 12, 2024



Plant availability is recorded at 6.00 am on September 13, 2024

1.8 Summary of Major Plant performance

September 12, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	310
Old Laxapana	54	44	53	945
Canyon	60	60	47	647
New Laxapana	100	100	100	2,268
Polpitiya	90	90	85	1,780
Broadlands	35	35	21	471
Kotmale	201	201	169	2,090
Victoria	210	160	156	1,599
Randenigala	123	100	110	469
Rantambe	50	25	36	178
Ukuwela	40	36	36	850
Bowatenna	40	40	40	623
Upper Kotmale	150	150	152	769
Nilambe	3	3	0	22
Samanalawewa	120	120	120	1,018
Kukule	75	75	79	1,867
Uma Oya	120	120	120	182
Inginiyagala	11	7	0	0
Udawalawe	6	3	1	0
Puttalam Coal I	270	210	213	5,044
Puttalam Coal II	270	270	270	6,499
Puttalam Coal III	270	270	272	6,535
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	0	0	0
Sapugaskanda A	70	48	0	0
Sapugaskanda B	72	54	54	422
Uthura Janani	22	16	16	265
Barge CEB	62	60	59	1,061
CEB-Hambantota	30	20	7	7
CEB-Mathugama	20	13	14	6
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	2,791	2,573	44,367

Note- Plant availability is the availability recorded at 6 am on September 13, 2024

1.9 Contribution to the Night Peak in MW

September 12, 2024

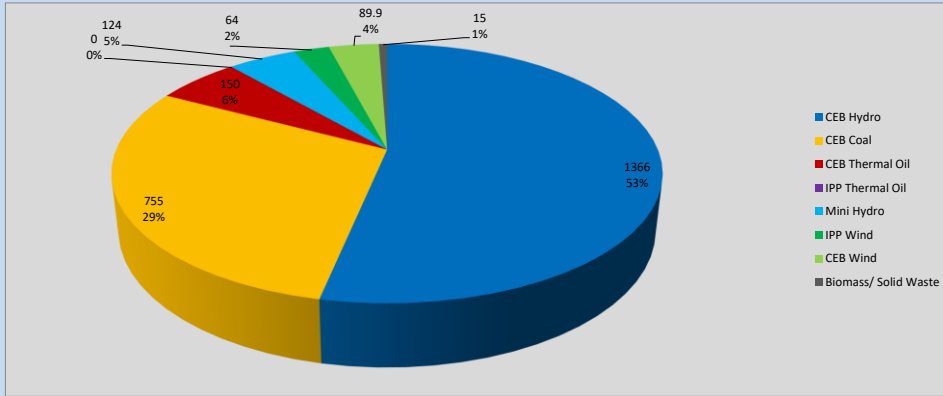


Table 05

CEB Hydro	1366	MW
CEB Coal	755	MW
CEB Thermal Oil	150	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	124	MW
IPP Wind	64	MW
CEB Wind	89.9	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

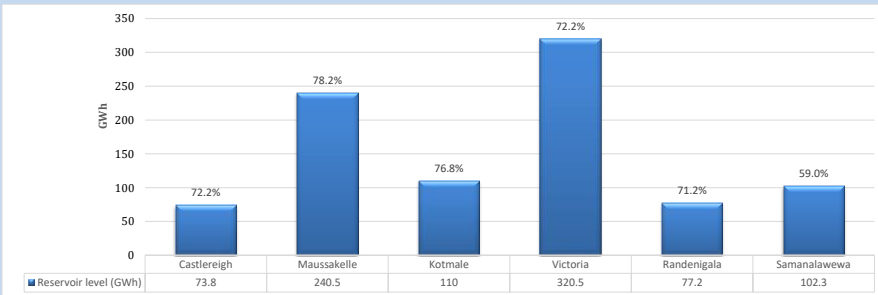
Table 06

Night Peak*	2,563	MW
Day Peak Maximum Demand	2,222	MW
Day Peak Minimum Demand	1,638	MW
Off Peak Minimum Demand	1,446	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 13, 2024



Total Reservoir Level
924.3 GWh
% of Total capacity
72.3%

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

September 12, 2024

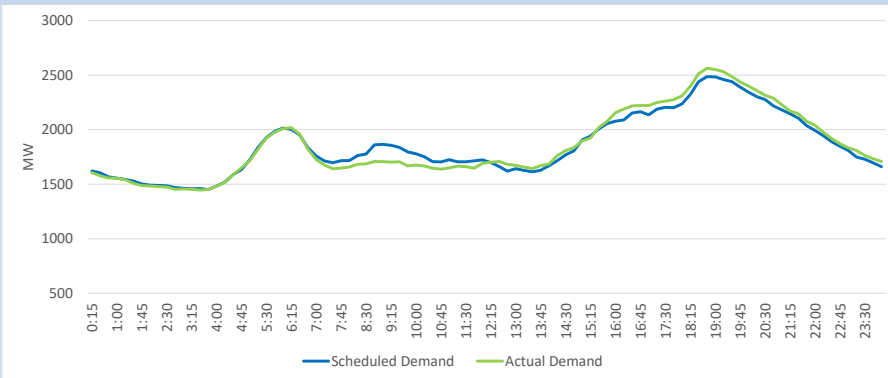
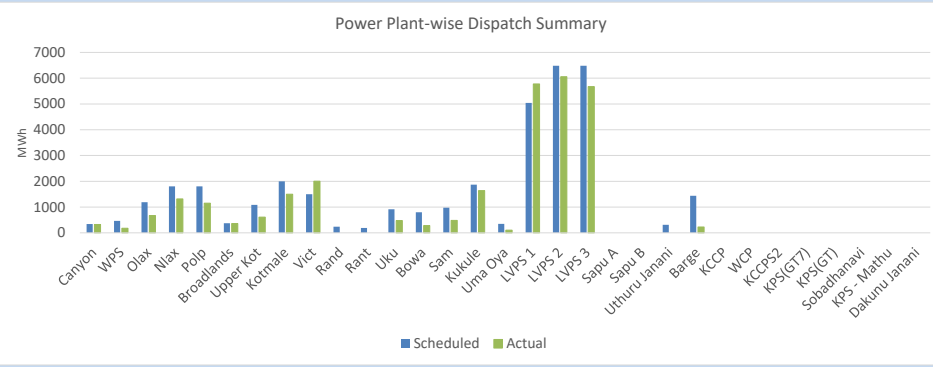


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,894	11,093	(4,801)
CEB Coal	18,000	17,502	(498)
CEB Thermal Oil	1,749	228	(1,521)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	8,812	8,550	(262)
Total	44,456	37,374	-7082

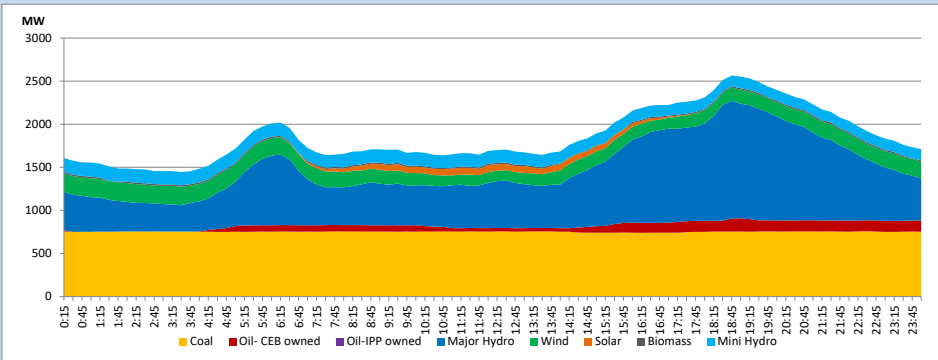
1.12 Power Plant-wise Dispatch Summary

September 12, 2024



1.13 Daily Load Curve

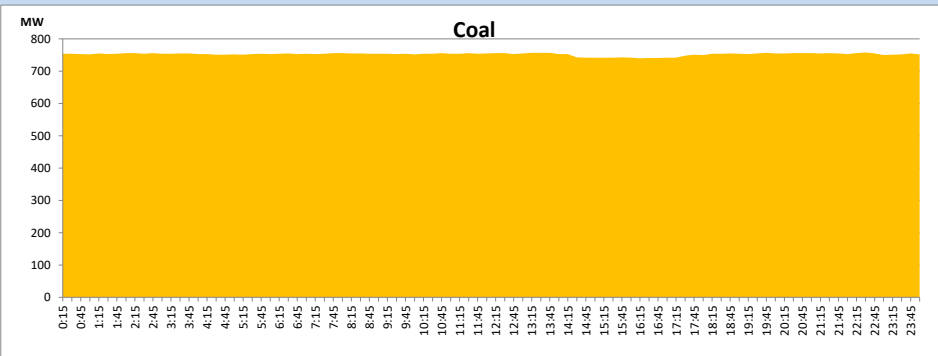
September 12, 2024



Solar and wind data is based on Telemetered Power Stations only

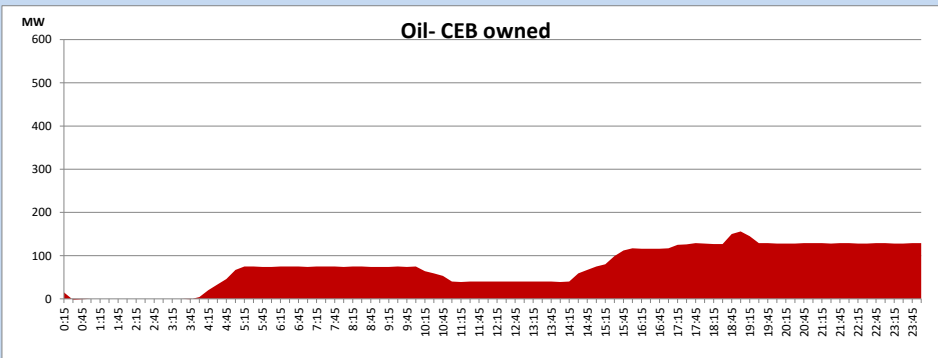
Coal Generation during

September 12, 2024

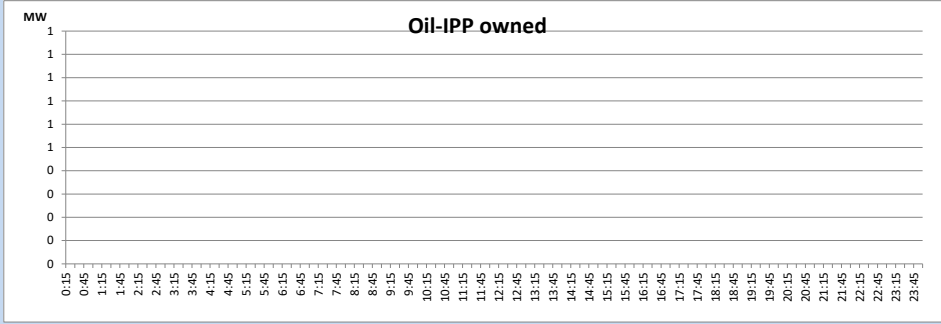


CEB Oil Plant Generation during

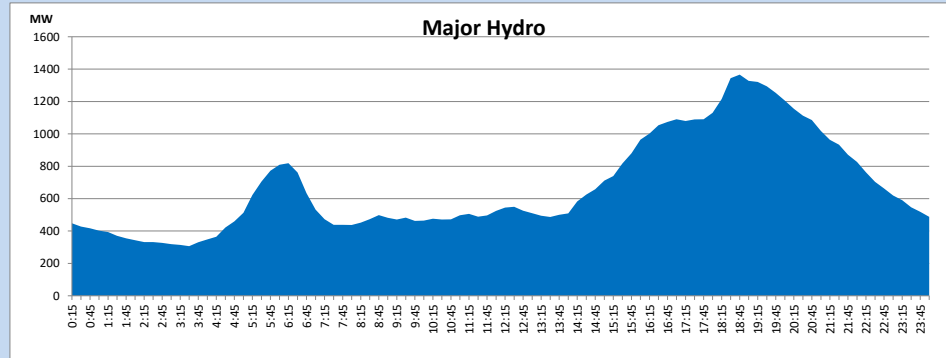
September 12, 2024



IPP Oil Plant Generation during September 12, 2024

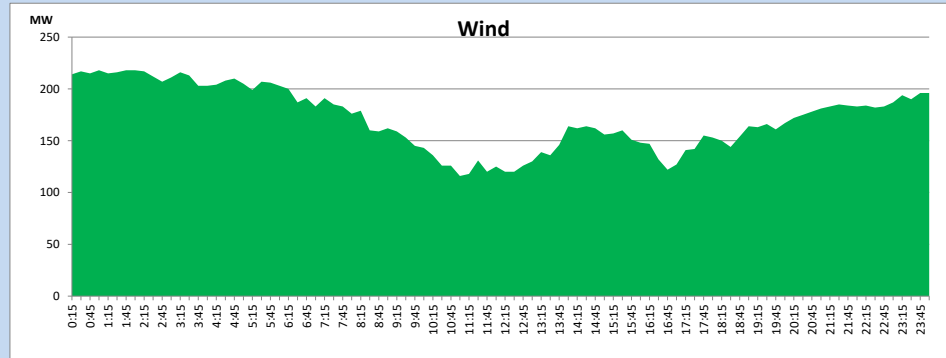


Major Hydro Generation during September 12, 2024



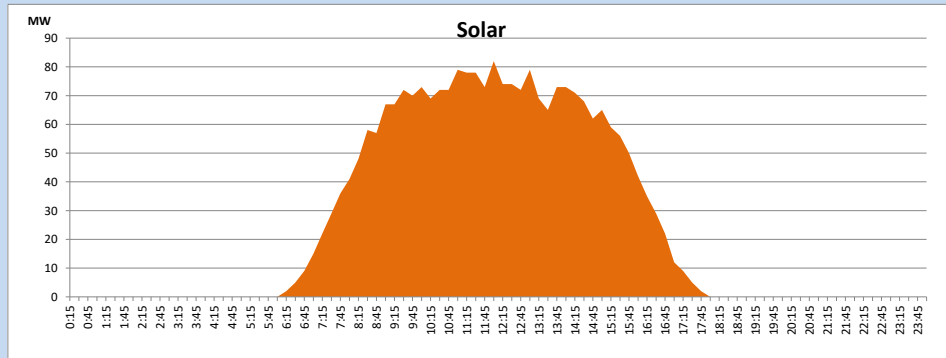
Wind Generation during September 12, 2024

Based on Telemetered Power Stations only



Solar Generation during September 12, 2024

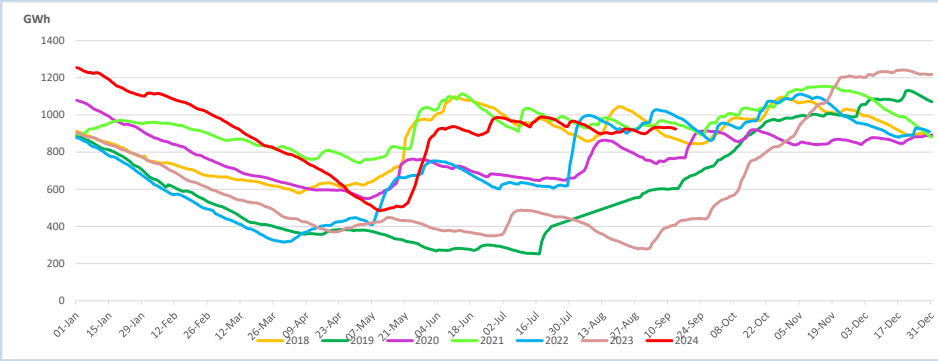
Based on Telemetered Power Stations only



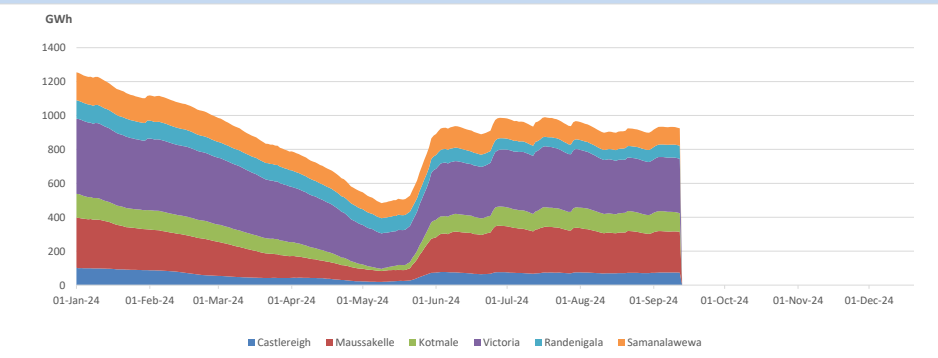
1.14 Major Incidents reported during the day September 12, 2024

01) Biyagama 220/132/33kV T/F 02 tripped from all ends at 13:38hrs due to the operation of REF protection. The T/F was normalized at 14:46hrs.

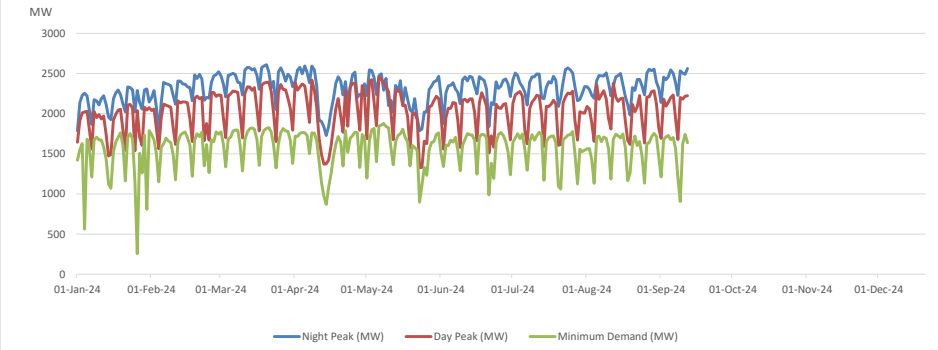
2. Comparison of Total Reservoir Storage Levels with Past Years



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

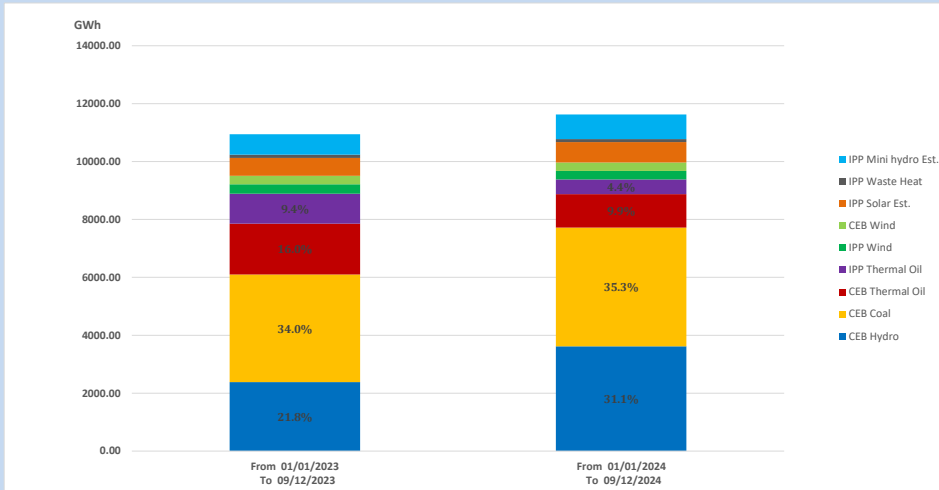


4. Variation of Demand during the current year



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 09/12/2023

10943 GWh

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

11624 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