

Generation and Reservoirs Statistics

September 18, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

September 18, 2024

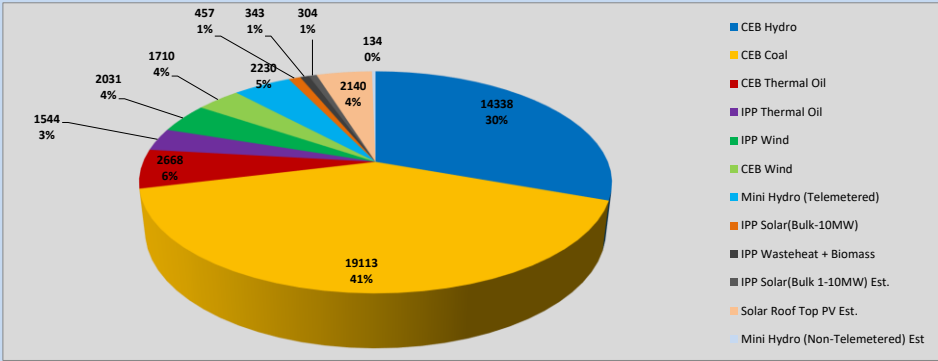


Table 01

	Generation (MWh)
CEB Hydro	14338
CEB Coal	19113
CEB Thermal Oil	2668
IPP Thermal Oil	1544
IPP Wind	2031
CEB Wind	1710
Mini Hydro (Telemetered)	2230
IPP Solar (Bulk)	457
IPP Waste heat + Biomass	343
Total Generation (Excluding estimated figures)	44,434
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	134
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2140
Total Generation (Including estimated figures)	47,012

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	252	30.59%
CEB Coal	315	38.20%
CEB Thermal Oil	39	4.70%
IPP Thermal	11	1.37%
IPP Wind	42	5.12%
CEB Wind	36	4.35%
Mini Hydro *	72	8.77%
IPP Solar *	51	6.24%
IPP Waste heat + BMP	5	0.66%
Total	824	

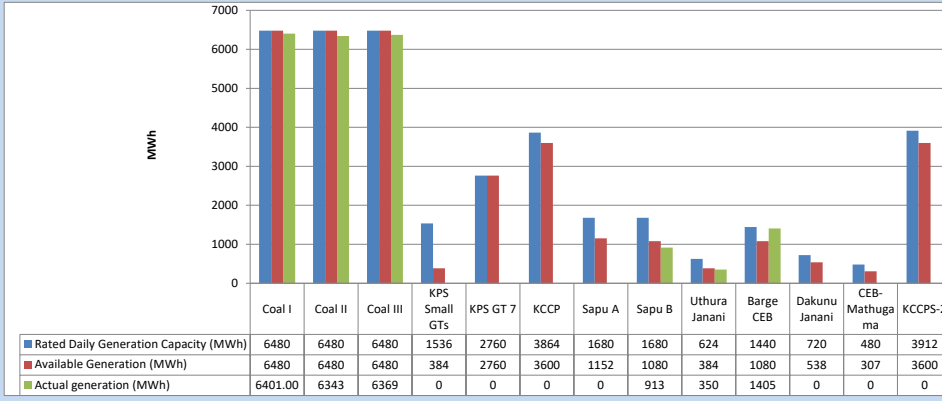
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,703	31.16%
CEB Coal	4,193	35.28%
CEB Thermal Oil	1,169	9.84%
IPP Thermal	520	4.38%
IPP Wind	305	2.56%
CEB Wind	301	2.53%
Mini Hydro *	866	7.28%
IPP Solar *	725	6.10%
IPP Waste heat	103	0.87%
Total	11,887	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

September 18, 2024

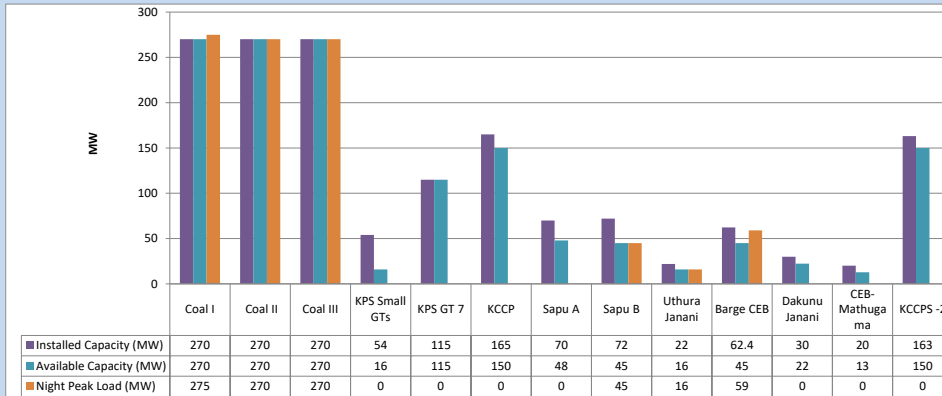


Available Generation is estimated based on plant availability at 6.00am on

September 19, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

September 18, 2024



Plant availability is recorded at 6.00 am on

September 19, 2024

1.4 IPP owned Thermal Plant Dispatch

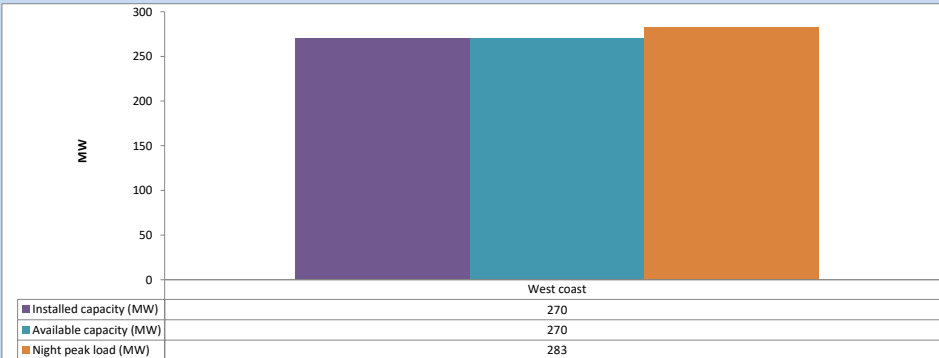
September 18, 2024



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

September 19, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

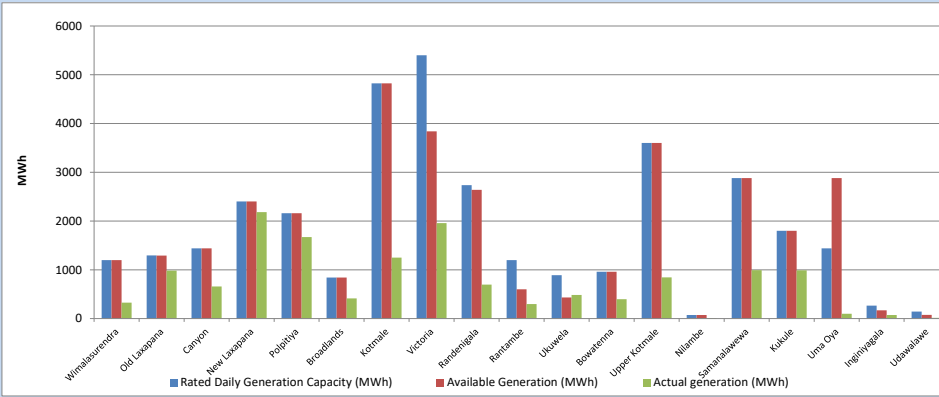


Plant availability is recorded at 6.00 am on

September 19, 2024

1.6 Major Hydro Plant Dispatch

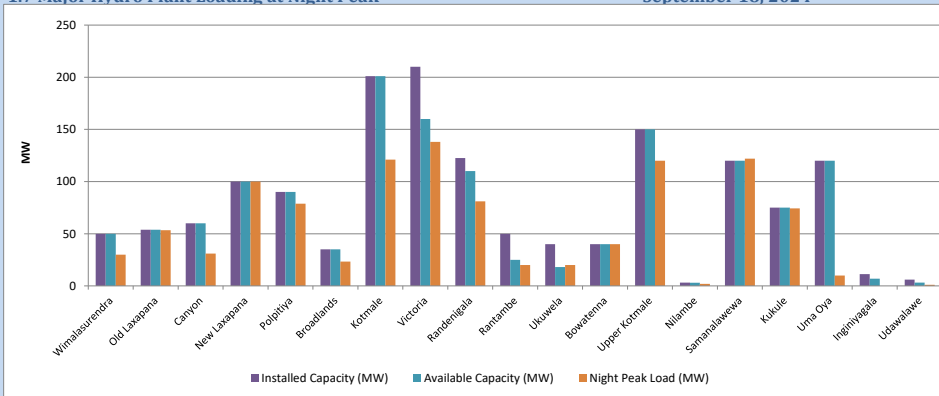
September 18, 2024



Available Generation is estimated based on plant availability at 6.00am on September 19, 2024

1.7 Major Hydro Plant Loading at Night Peak

September 18, 2024



Plant availability is recorded at 6.00 am on September 19, 2024

1.8 Summary of Major Plant performance

September 18, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	327
Old Laxapana	54	54	53	982
Canyon	60	60	31	657
New Laxapana	100	100	100	2,183
Polpitiya	90	90	79	1,670
Broadlands	35	35	23	413
Kotmale	201	201	121	1,250
Victoria	210	160	138	1,958
Randenigala	123	110	81	697
Rantambe	50	25	20	298
Ukuwela	40	18	20	483
Bowatenna	40	40	40	397
Upper Kotmale	150	150	120	846
Nilambe	3	3	2	12
Samanalawewa	120	120	122	992
Kukule	75	75	74	988
Uma Oya	120	120	10	98
Inginipigala	11	7	0	74
Udawalawe	6	3	1	14
Puttalam Coal I	270	270	275	6,401
Puttalam Coal II	270	270	270	6,343
Puttalam Coal III	270	270	270	6,369
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	45	45	913
Uthura Janani	22	16	16	350
Barge CEB	62	45	59	1,405
CEB-Hambantota	30	22	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	270	283	1,544
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	3,121	2,578	44,435

Note- Plant availability is the availability recorded at 6 am on September 19, 2024

1.9 Contribution to the Night Peak in MW

September 18, 2024

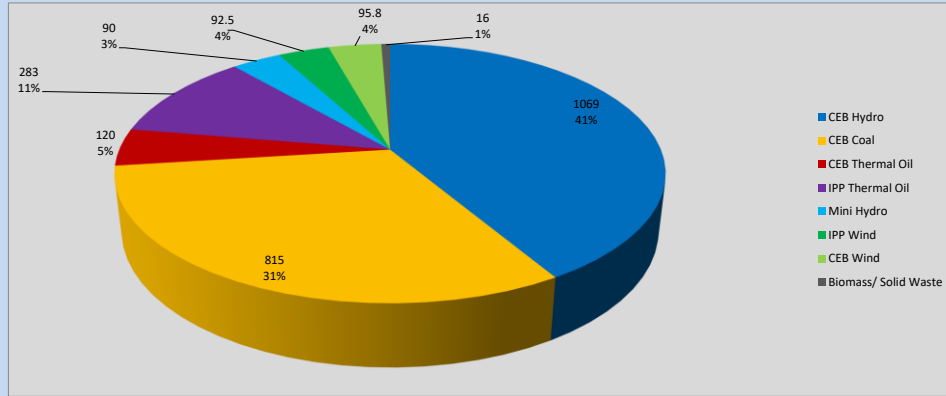


Table 05

CEB Hydro	1069	MW
CEB Coal	815	MW
CEB Thermal Oil	120	MW
IPP Thermal Oil	283	MW
Mini Hydro (Telemetered)	90	MW
IPP Wind	92.5	MW
CEB Wind	95.8	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

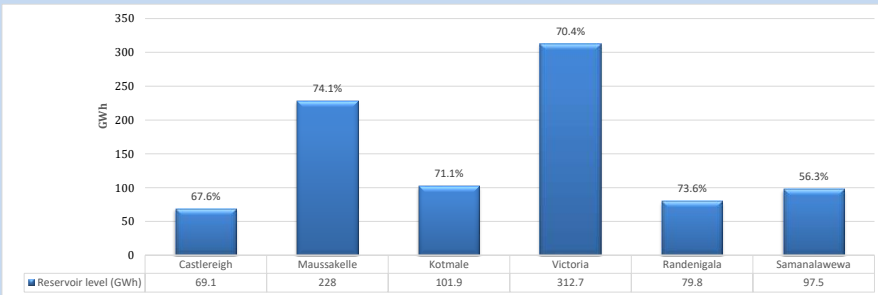
Table 06

Night Peak*	2,581	MW
Day Peak Maximum Demand	2,291	MW
Day Peak Minimum Demand	1,623	MW
Off Peak Minimum Demand	1,384	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 19, 2024



Total Reservoir Level
889 GWh
% of Total capacity
69.5%

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

September 18, 2024

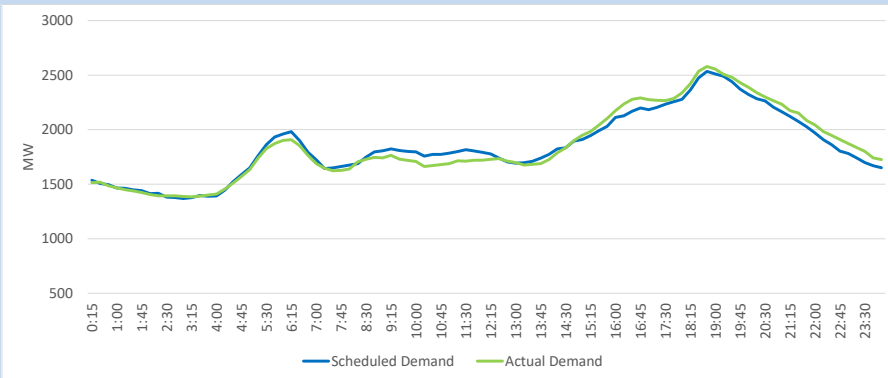
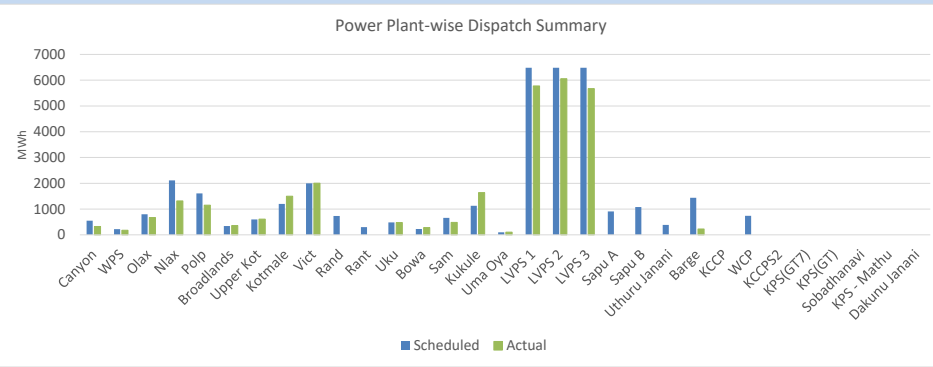


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,045	11,093	(1,952)
CEB Coal	19,440	17,502	(1,938)
CEB Thermal Oil	3,809	228	(3,581)
IPP Thermal Oil	735	-	(735)
NCRE (Telemetered)	7,207	6,860	(347)
Total	44,236	35,684	-8552

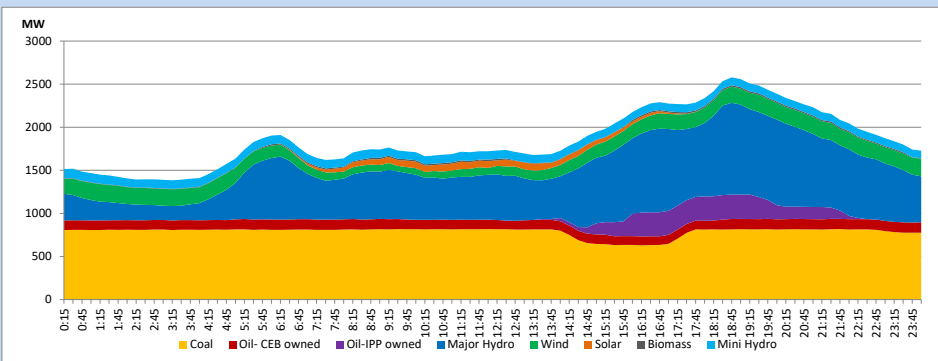
1.12 Power Plant-wise Dispatch Summary

September 18, 2024



1.13 Daily Load Curve

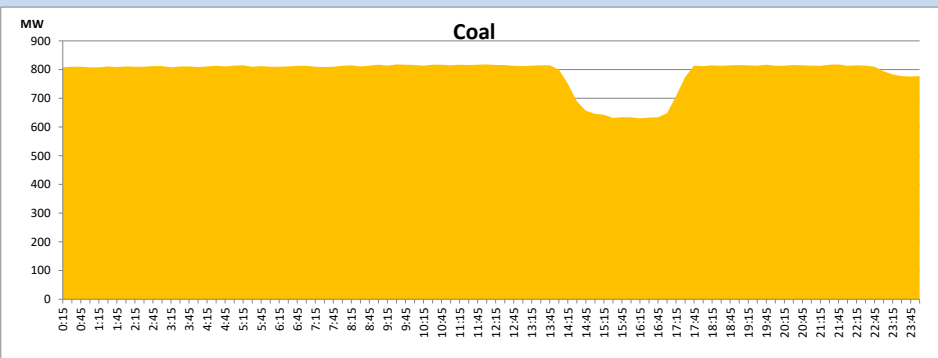
September 18, 2024



Solar and wind data is based on Telemetered Power Stations only

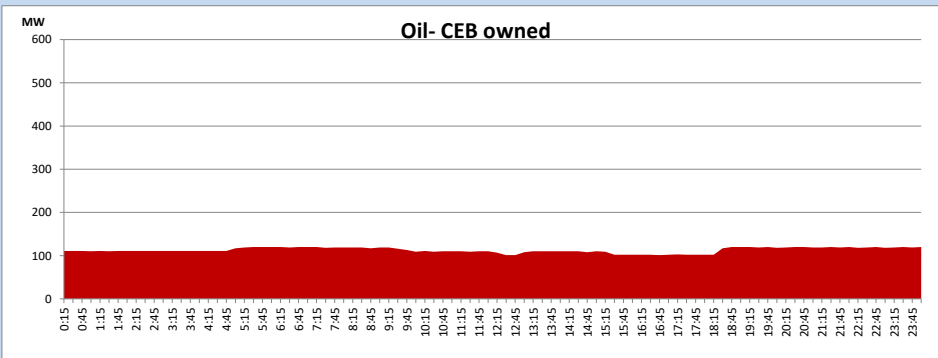
Coal Generation during

September 18, 2024

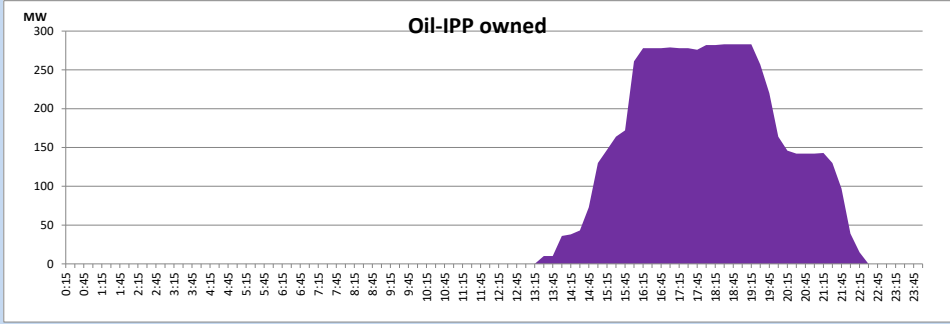


CEB Oil Plant Generation during

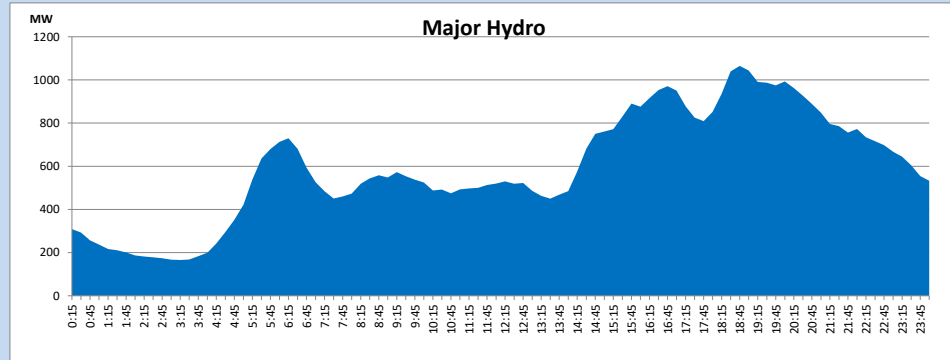
September 18, 2024



IPP Oil Plant Generation during September 18, 2024

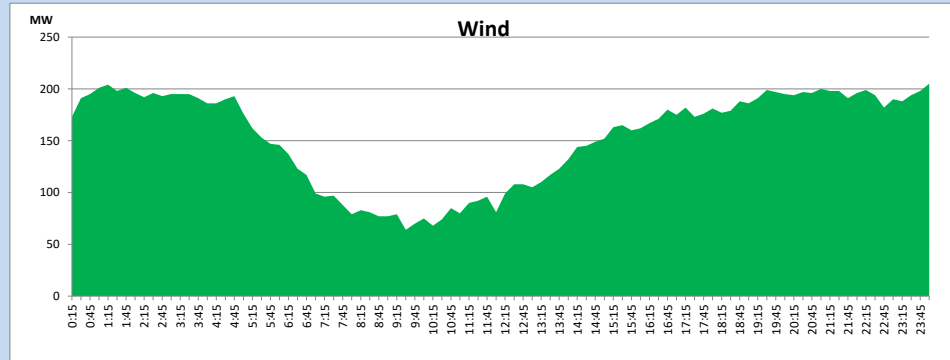


Major Hydro Generation during September 18, 2024



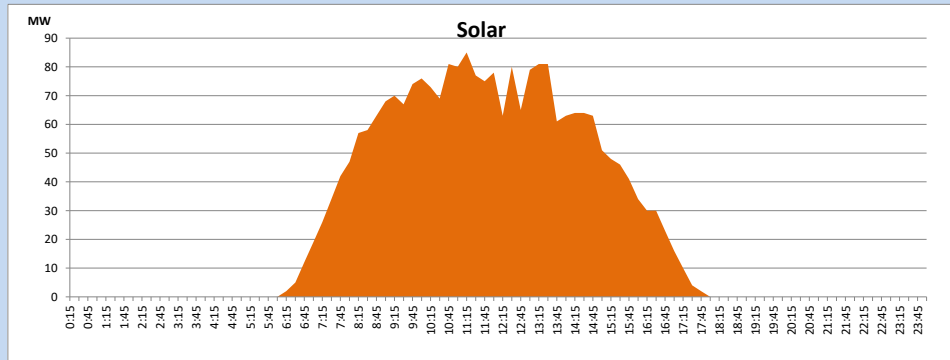
Wind Generation during September 18, 2024

Based on Telemetered Power Stations only



Solar Generation during September 18, 2024

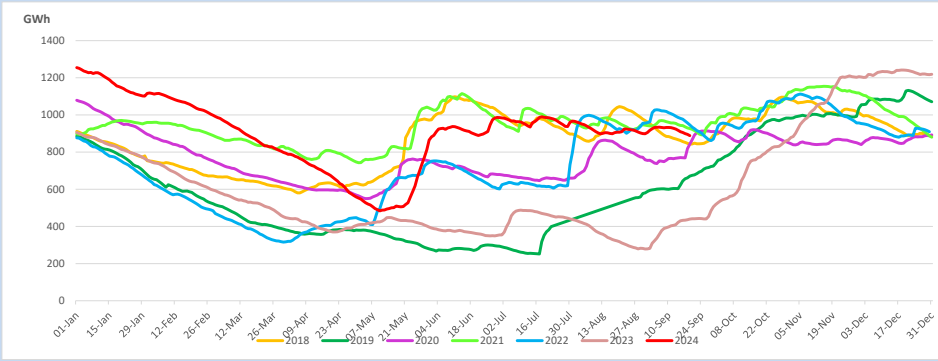
Based on Telemetered Power Stations only



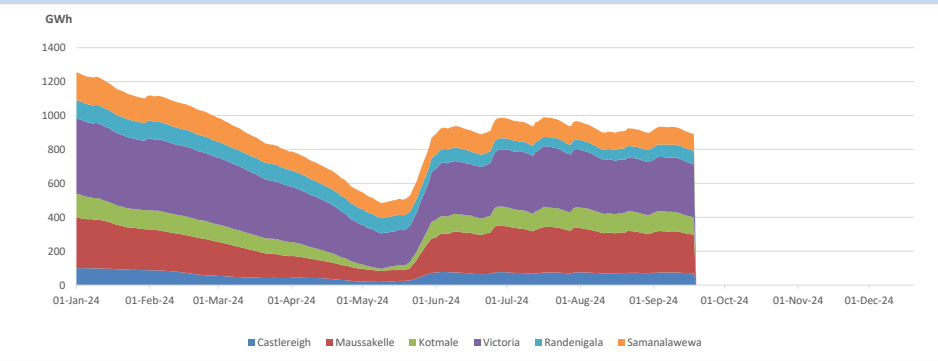
1.14 Major Incidents reported during the day September 18, 2024

- 1) New Chillaw - Veyangoda 220kV cct 02 was manually switched off from both ends at 14:54hrs in order to facilitate for a removal of entangled kite. The cct was normalized at 16:52hrs.

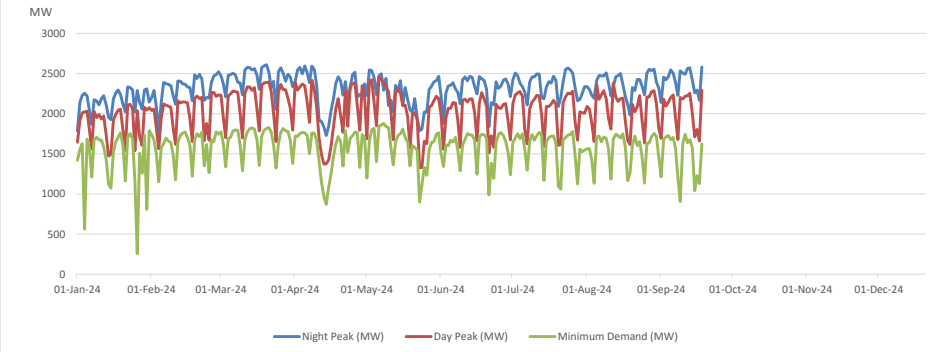
2. Comparison of Total Reservoir Storage Levels with Past Years



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

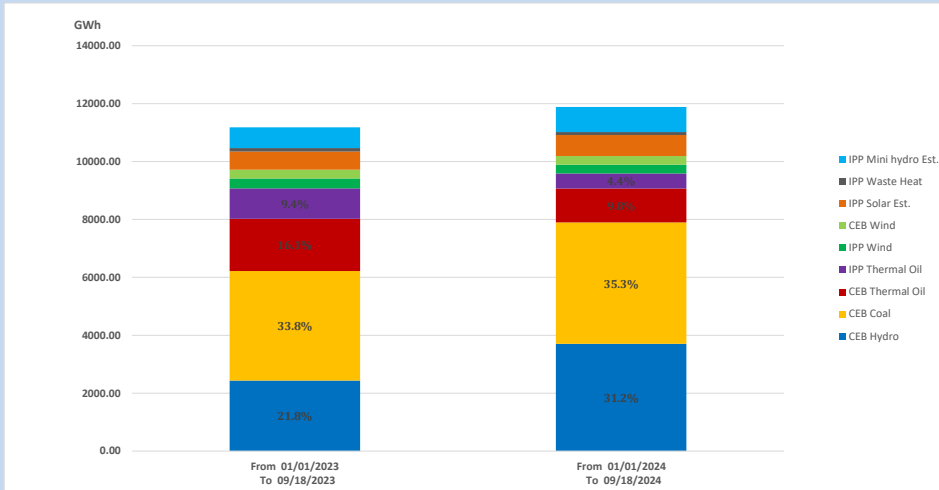


4. Variation of Demand during the current year



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 09/18/2023

11184 GWh

From 01/01/2024 To 09/18/2024

11887 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