

Generation and Reservoirs Statistics

October 3, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 3, 2024

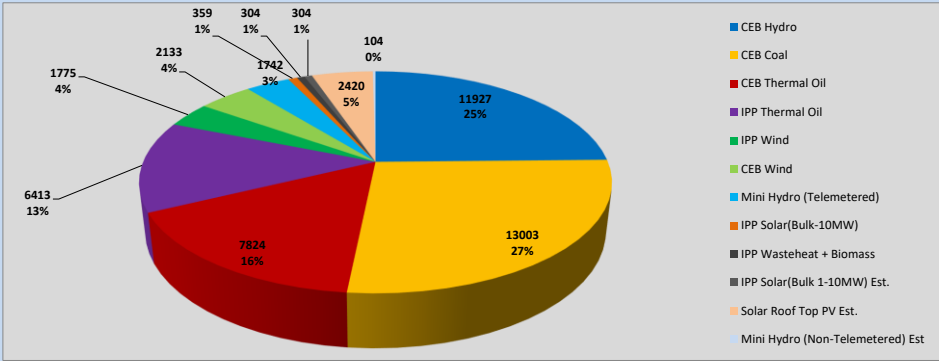


Table 01

	Generation (MWh)
CEB Hydro	11927
CEB Coal	13003
CEB Thermal Oil	7824
IPP Thermal Oil	6413
IPP Wind	1775
CEB Wind	2133
Mini Hydro (Telemetered)	1742
IPP Solar (Bulk)	359
IPP Waste heat + Biomass	304
Total Generation (Excluding estimated figures)	45,480
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	104
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	48,308

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	38	26.44%
CEB Coal	39	27.53%
CEB Thermal Oil	22	15.72%
IPP Thermal	19	13.68%
IPP Wind	3	2.34%
CEB Wind	4	2.61%
Mini Hydro *	6	4.44%
IPP Solar *	9	6.57%
IPP Waste heat + BMP	1	0.68%
Total	142	

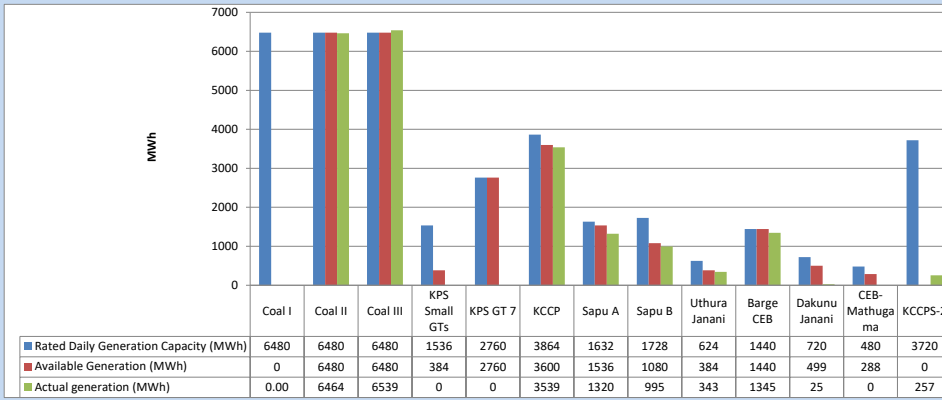
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,891	30.93%
CEB Coal	4,440	35.29%
CEB Thermal Oil	1,223	9.73%
IPP Thermal	582	4.63%
IPP Wind	315	2.50%
CEB Wind	322	2.56%
Mini Hydro *	936	7.44%
IPP Solar *	756	6.01%
IPP Waste heat	115	0.92%
Total	12,580	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 3, 2024

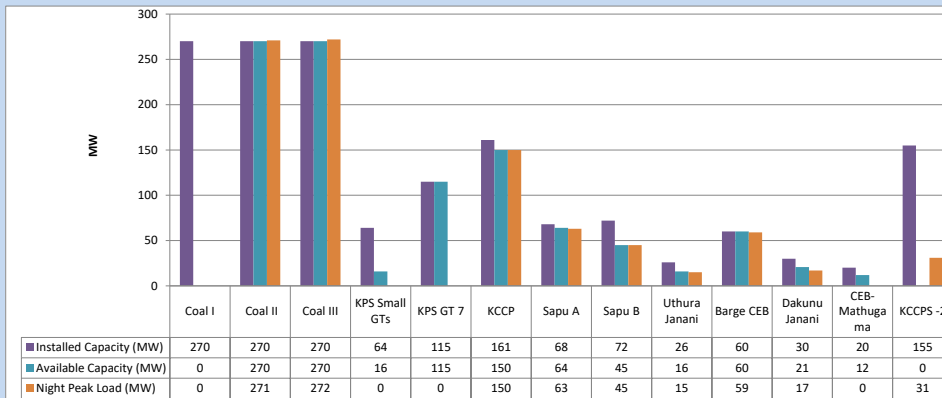


Available Generation is estimated based on plant availability at 6.00am on

October 4, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 3, 2024

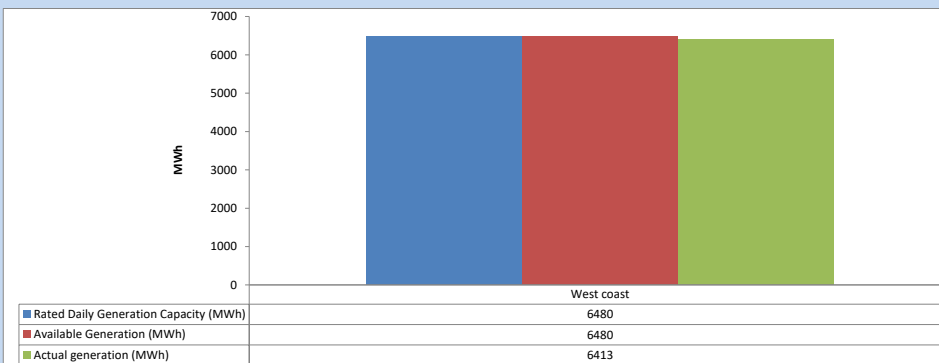


Plant availability is recorded at 6.00 am on

October 4, 2024

1.4 IPP owned Thermal Plant Dispatch

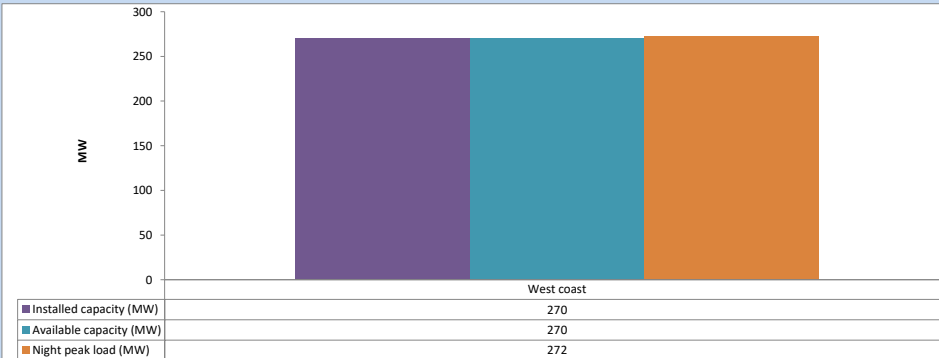
October 3, 2024



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

October 4, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

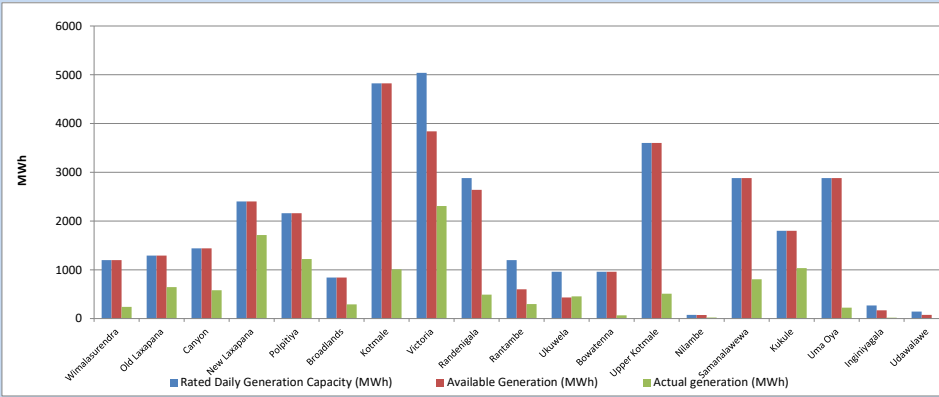


Plant availability is recorded at 6.00 am on

October 4, 2024

1.6 Major Hydro Plant Dispatch

October 3, 2024

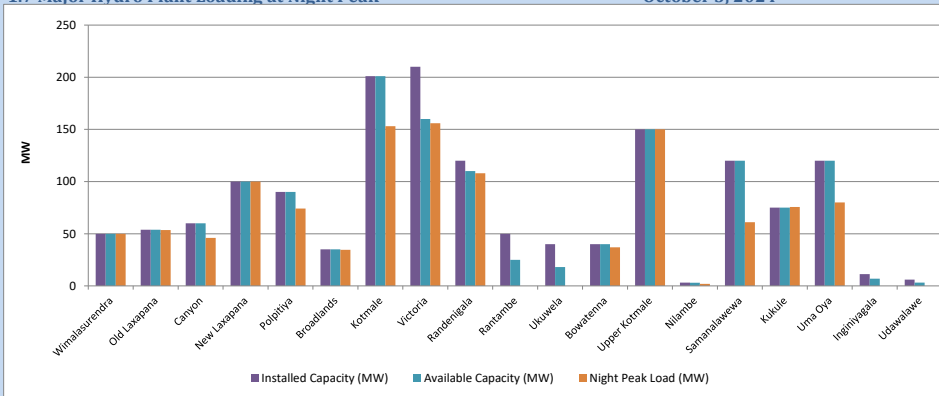


Available Generation is estimated based on plant availability at 6.00am on

October 4, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 3, 2024



Plant availability is recorded at 6.00 am on

October 4, 2024

1.8 Summary of Major Plant performance

October 3, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	240
Old Laxapana	54	54	54	645
Canyon	60	60	46	581
New Laxapana	100	100	100	1,713
Polpitiya	90	90	74	1,220
Broadlands	35	35	35	291
Kotmale	201	201	153	1,010
Victoria	210	160	156	2,308
Randenigala	120	110	108	490
Rantambe	50	25	0	298
Ukuwela	40	18	0	454
Bowatenna	40	40	37	65
Upper Kotmale	150	150	150	509
Nilambe	3	3	2	20
Samanalawewa	120	120	61	805
Kukule	75	75	76	1,033
Uma Oya	120	120	80	225
Inginiyagala	11	7	0	19
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,464
Puttalam Coal III	270	270	272	6,539
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,539
Sapugaskanda A	68	64	63	1,320
Sapugaskanda B	72	45	45	995
Uthura Janani	26	16	15	343
Barge CEB	60	60	59	1,345
CEB-Hambantota	30	21	17	25
CEB-Mathugama	20	12	0	0
KCCPS -2	155	0	31	257
West Coast	270	270	272	6,413
Sobadhanavi	220	212	0	0
Total	3,606	2,730	2,555	45,479

Note- Plant availability is the availability recorded at 6 am on

October 4, 2024

1.9 Contribution to the Night Peak in MW

October 3, 2024

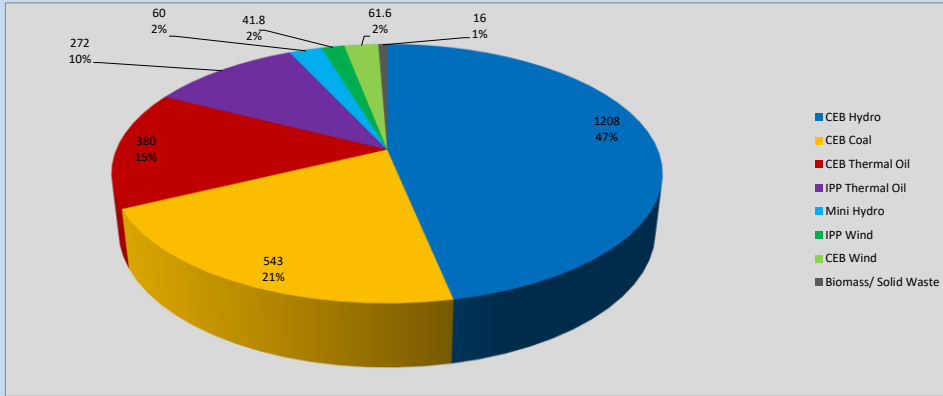


Table 05

CEB Hydro	1208	MW
CEB Coal	543	MW
CEB Thermal Oil	380	MW
IPP Thermal Oil	272	MW
Mini Hydro (Telemetered)	60	MW
IPP Wind	41.8	MW
CEB Wind	61.6	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

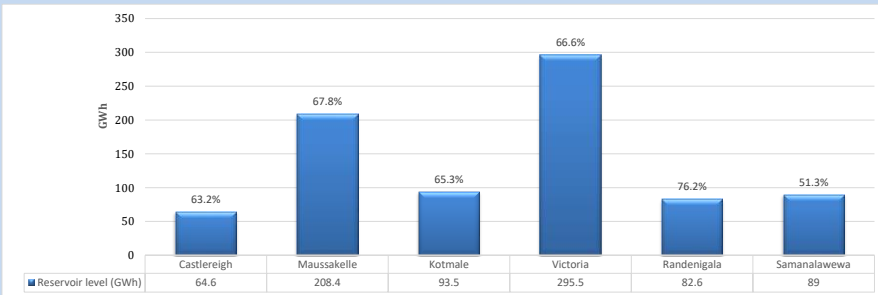
Table 06

Night Peak*	2,582	MW
Day Peak Maximum Demand	2,275	MW
Day Peak Minimum Demand	1,611	MW
Off Peak Minimum Demand	1,483	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 October 4, 2024



Total Reservoir Level: 833.6 GWh
% of Total capacity: 65.2%

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

October 3, 2024

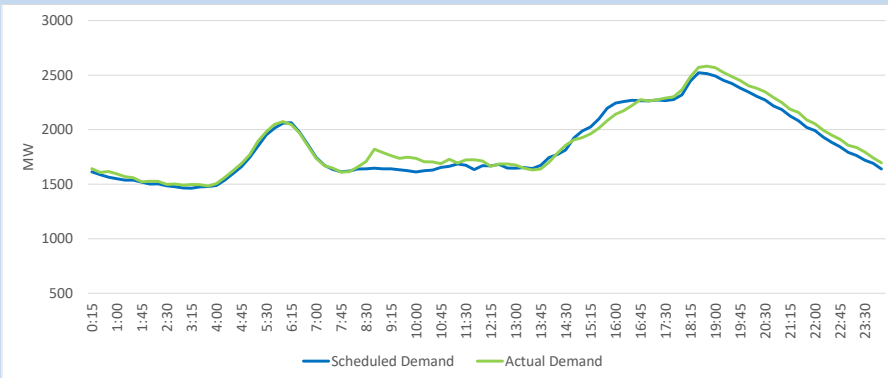
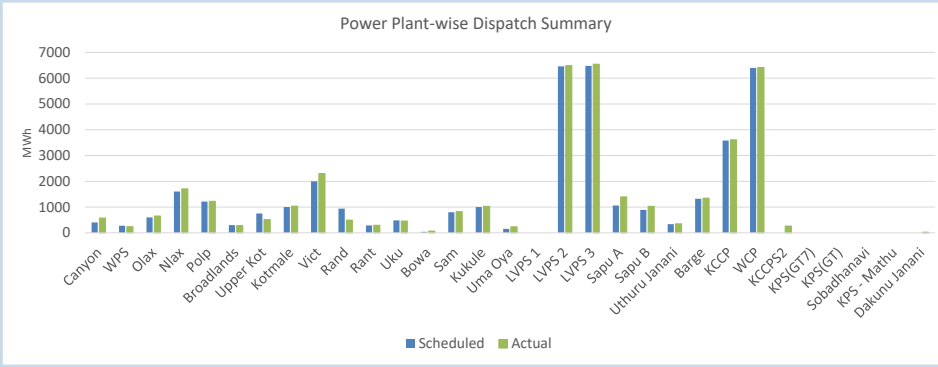


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,838	11,915	77
CEB Coal	12,933	13,034	101
CEB Thermal Oil	7,187	8,009	822
IPP Thermal Oil	6,398	6,413	15
NCRE (Telemetered)	6,097	5,699	(398)
Total	44,452	45,071	619

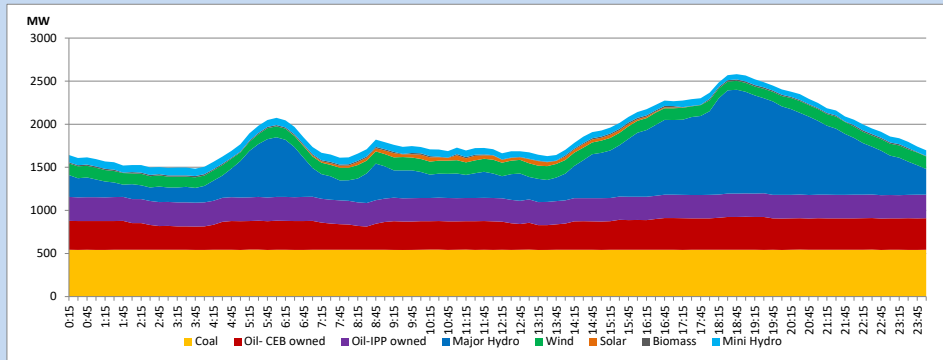
1.12 Power Plant-wise Dispatch Summary

October 3, 2024



1.13 Daily Load Curve

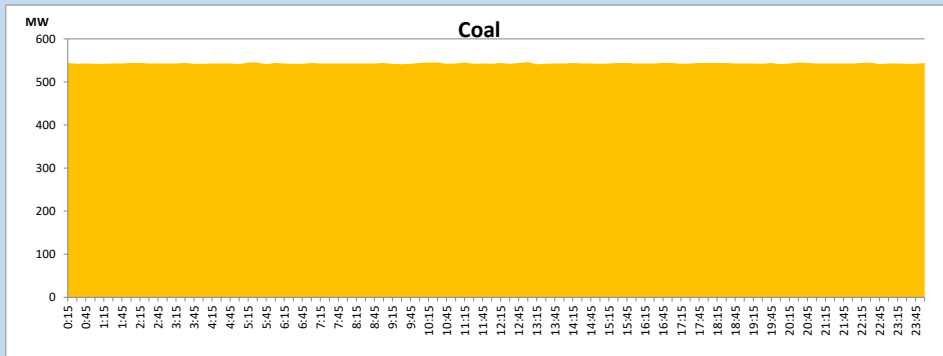
October 3, 2024



Solar and wind data is based on Telemetered Power Stations only

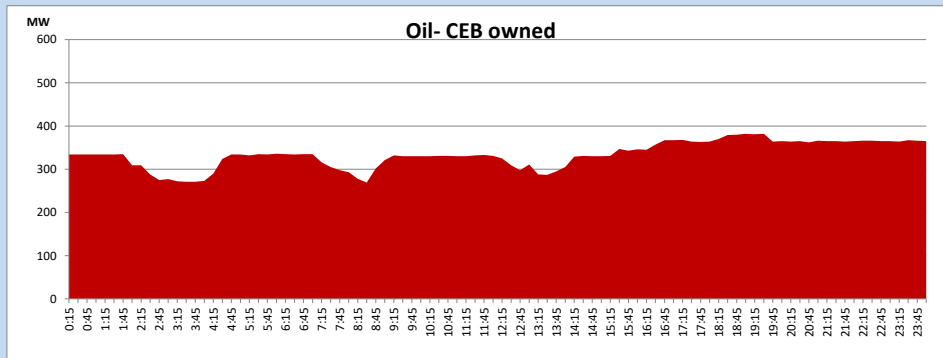
Coal Generation during

October 3, 2024

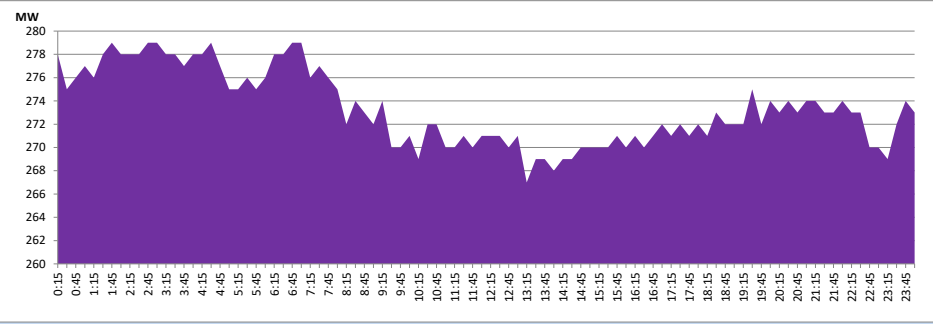


CEB Oil Plant Generation during

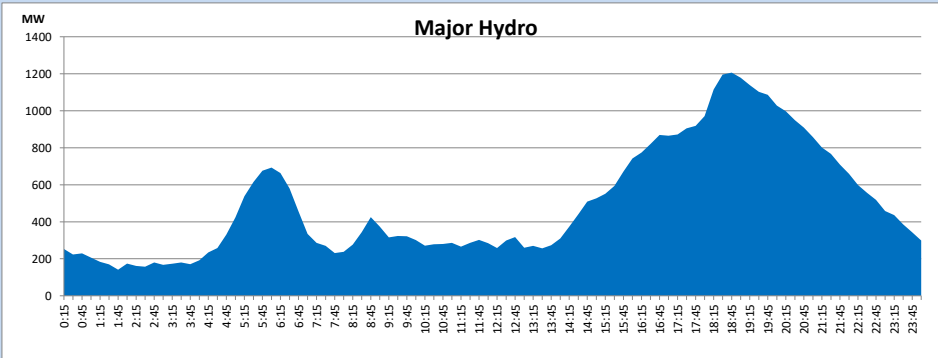
October 3, 2024



IPP Oil Plant Generation during October 3, 2024

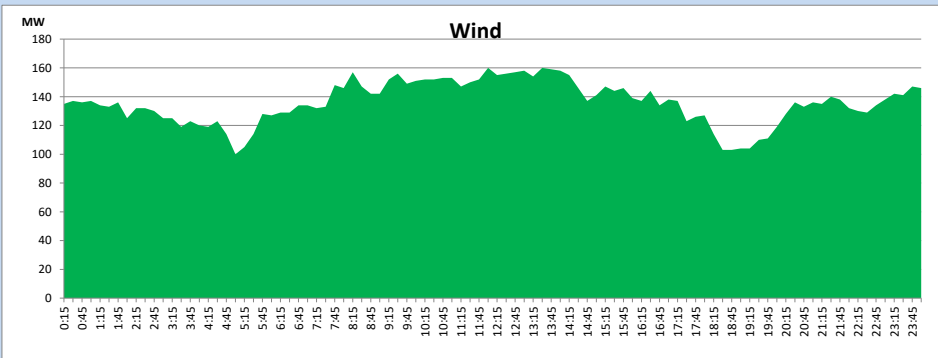


Major Hydro Generation during October 3, 2024



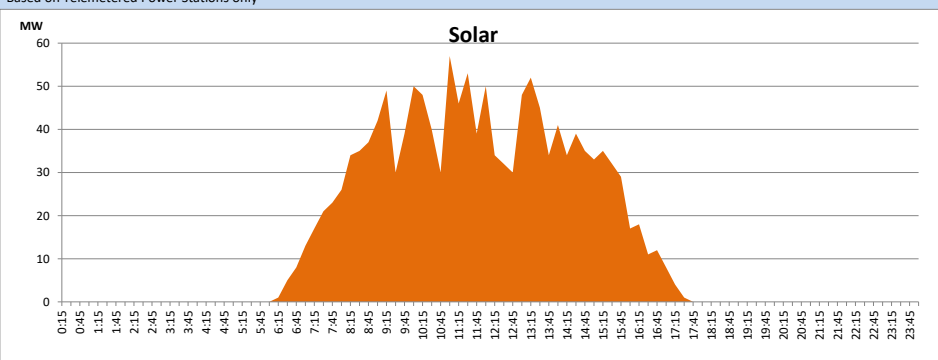
Wind Generation during October 3, 2024

Based on Telemetered Power Stations only



Solar Generation during October 3, 2024

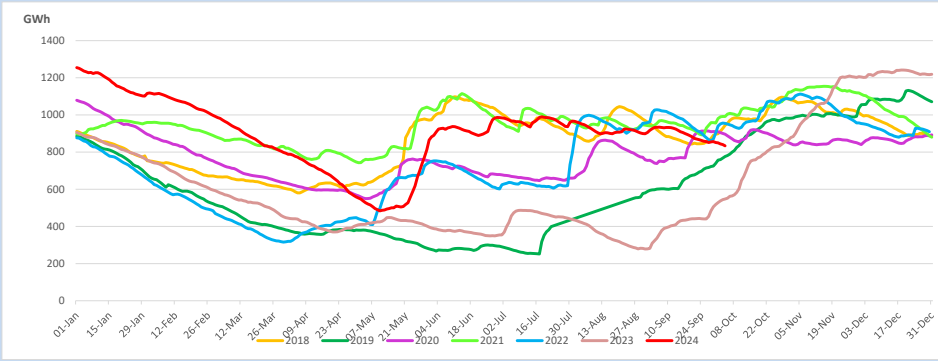
Based on Telemetered Power Stations only



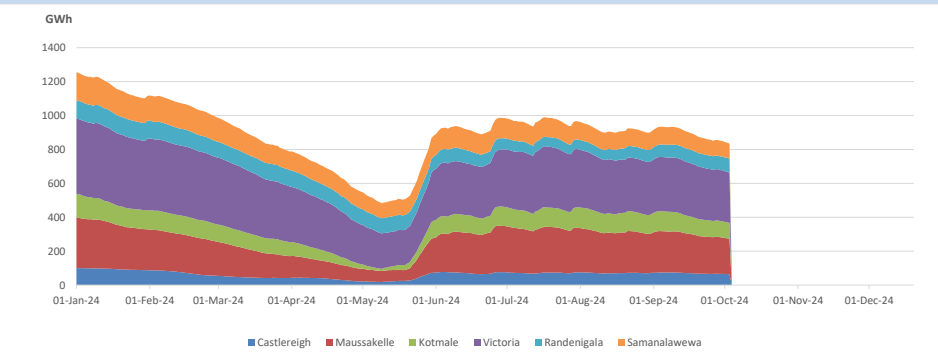
1.14 Major Incidents reported during the day October 3, 2024

- 1) KCCPS-2 GT tripped at 00:26hrs (04.10.2024) rejecting 30MW from the system due to low fuel pressure while testing KCCPS-2 ST. KCCPS-2 yet to resume generation.
- 2) LVPS Unit 03 runback to 140MW(net) due to the tripping of a FD fan at 00:54hrs (04.10.2024) . LVPS Unit 03 reached full load at 04:50hrs (04.10.2024).
- 3) Kolonnawa 132/33kV T/F 04 and 05 tripped at 05:50hrs (04.10.2024) only from 33kV side causing 33kV bus section 03, 04 and associated feeders to be dead. The T/Fs and affected feeders except feeder 17 were normalized by 6:25hrs (04.10.2024).

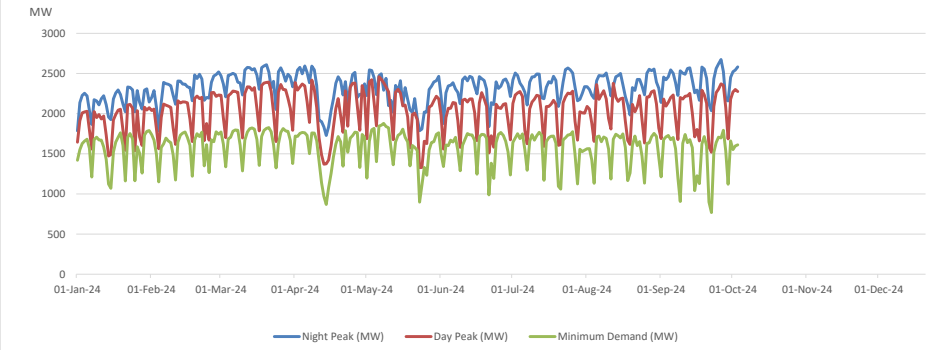
2. Comparison of Total Reservoir Storage Levels with Past Years



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

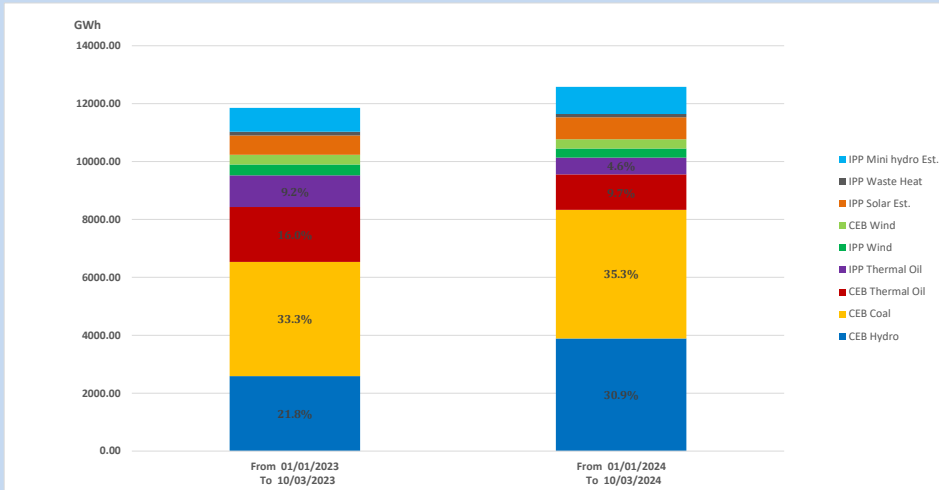


4. Variation of Demand during the current year



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 10/03/2023

11852 GWh

From 01/01/2024 To 10/03/2024

12580 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	1535
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	490
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