

Generation and Reservoirs Statistics

October 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 14, 2024

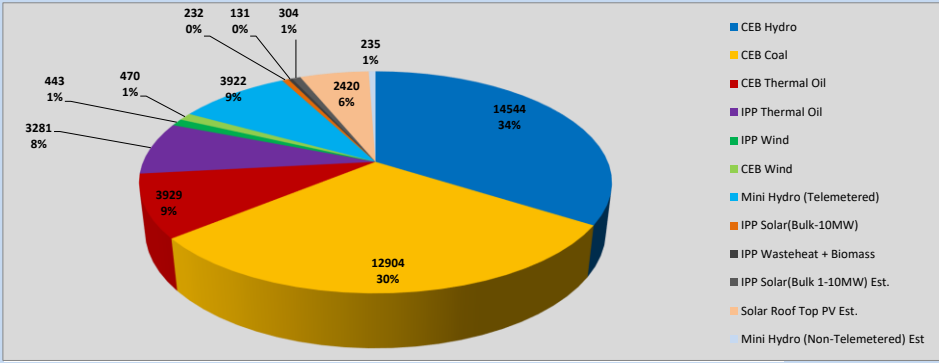


Table 01

	Generation (MWh)
CEB Hydro	14544
CEB Coal	12904
CEB Thermal Oil	3929
IPP Thermal Oil	3281
IPP Wind	443
CEB Wind	470
Mini Hydro (Telemetered)	3922
IPP Solar (Bulk)	232
IPP Waste heat + Biomass	131
Total Generation (Excluding estimated figures)	39,856
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	235
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	42,815

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	178	28.49%
CEB Coal	181	29.06%
CEB Thermal Oil	92	14.72%
IPP Thermal	66	10.63%
IPP Wind	11	1.71%
CEB Wind	14	2.22%
Mini Hydro *	36	5.79%
IPP Solar *	43	6.85%
IPP Waste heat + BMP	3	0.53%
Total	623	

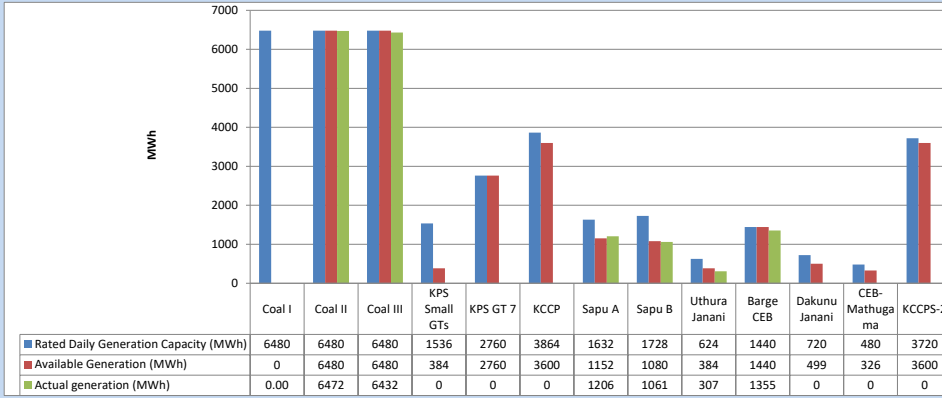
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,031	29.48%
CEB Coal	4,582	33.51%
CEB Thermal Oil	1,293	9.46%
IPP Thermal	1,240	9.07%
IPP Wind	322	2.36%
CEB Wind	332	2.43%
Mini Hydro *	966	7.06%
IPP Solar *	789	5.77%
IPP Waste heat	118	0.86%
Total	13,672	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 14, 2024

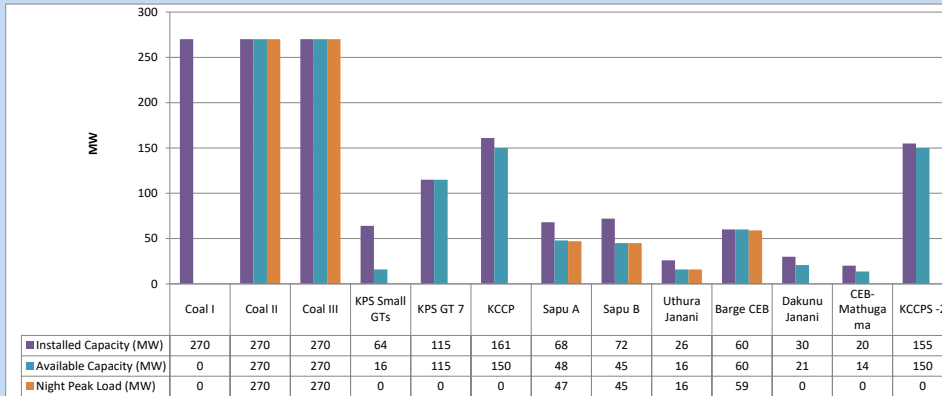


Available Generation is estimated based on plant availability at 6.00am on

October 15, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 14, 2024

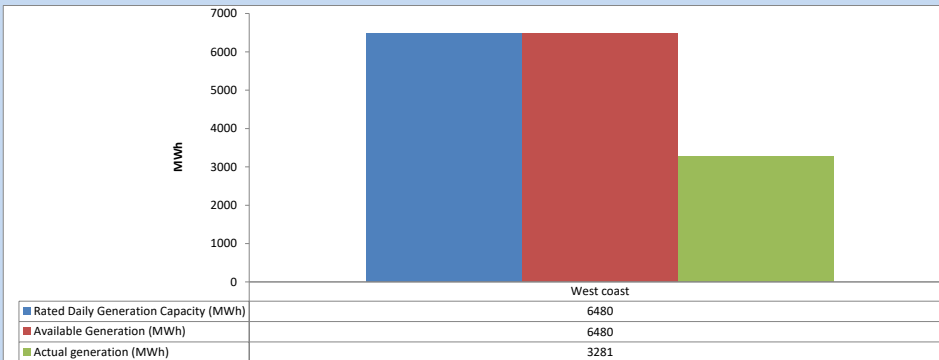


Plant availability is recorded at 6.00 am on

October 15, 2024

1.4 IPP owned Thermal Plant Dispatch

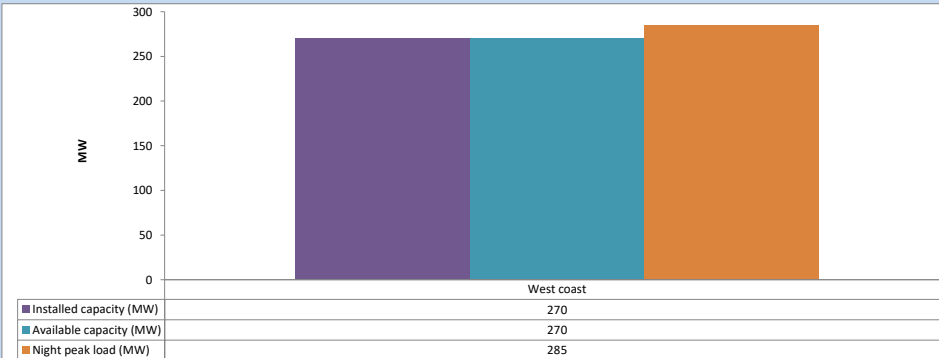
October 14, 2024



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

October 15, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

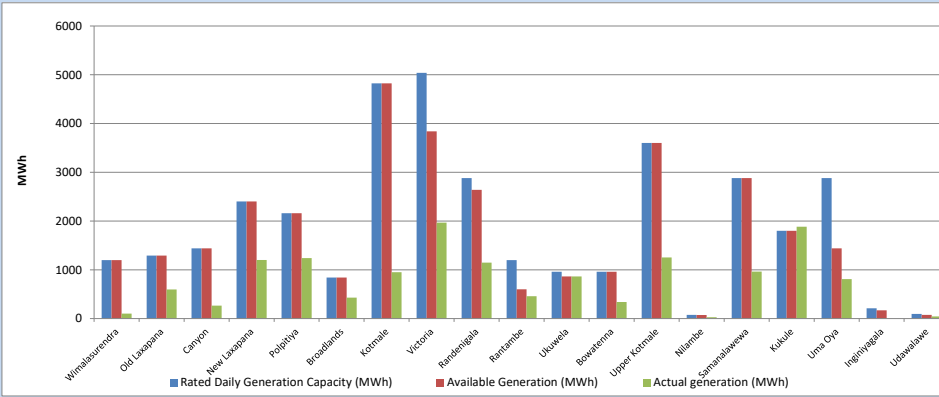


Plant availability is recorded at 6.00 am on

October 15, 2024

1.6 Major Hydro Plant Dispatch

October 14, 2024

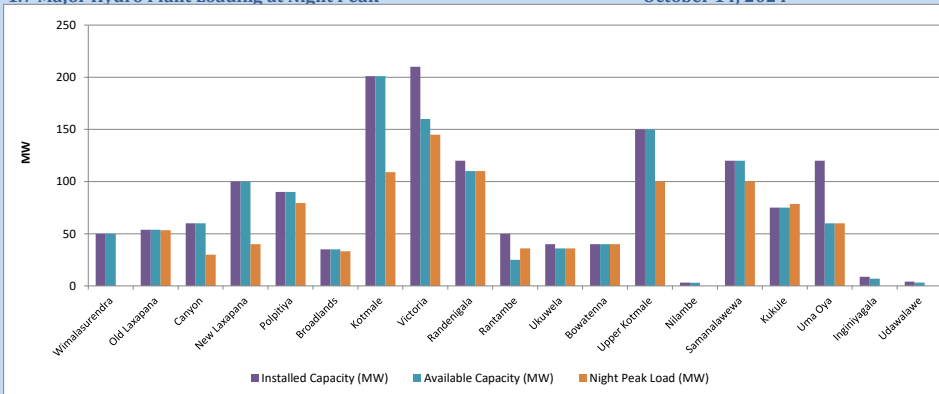


Available Generation is estimated based on plant availability at 6.00am on

October 15, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 14, 2024



Plant availability is recorded at 6.00 am on

October 15, 2024

1.8 Summary of Major Plant performance

October 14, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	0	103
Old Laxapana	54	54	53	598
Canyon	60	60	30	266
New Laxapana	100	100	40	1,202
Polpitiya	90	90	79	1,240
Broadlands	35	35	33	430
Kotmale	201	201	109	950
Victoria	210	160	145	1,967
Randenigala	120	110	110	1,147
Rantambe	50	25	36	460
Ukuwela	40	36	36	865
Bowatenna	40	40	40	340
Upper Kotmale	150	150	100	1,253
Nilambe	3	3	0	26
Samanalawewa	120	120	100	962
Kukule	75	75	79	1,885
Uma Oya	120	60	60	809
Inginipagala	9	7	0	0
Udawalawe	4	3	0	43
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,472
Puttalam Coal III	270	270	270	6,432
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	48	47	1,206
Sapugaskanda B	72	45	45	1,061
Uthura Janani	26	16	16	307
Barge CEB	60	60	59	1,355
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	285	3,281
Sobadhanavi	220	212	0	0
Total	3,602	2,823	2,240	39,858

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

October 15, 2024

1.9 Contribution to the Night Peak in MW

October 14, 2024

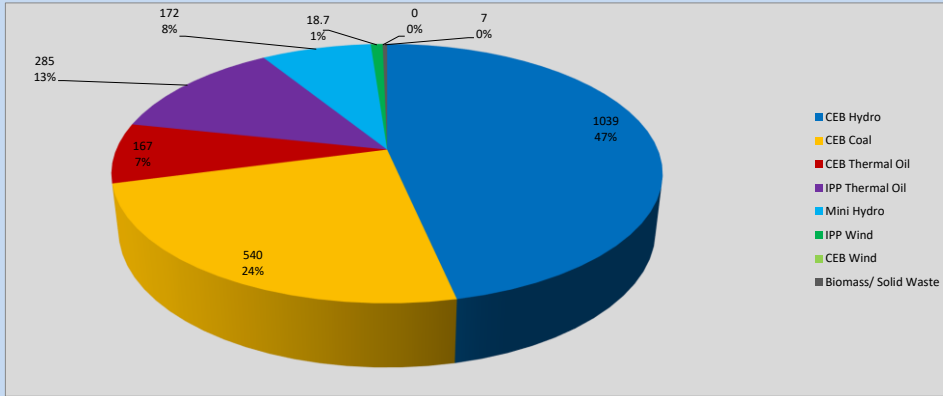


Table 05

CEB Hydro	1039	MW
CEB Coal	540	MW
CEB Thermal Oil	167	MW
IPP Thermal Oil	285	MW
Mini Hydro (Telemetered)	172	MW
IPP Wind	18.7	MW
CEB Wind	0	MW
Biomass/ Solid Waste	7	MW

Recorded Peak Demand Data

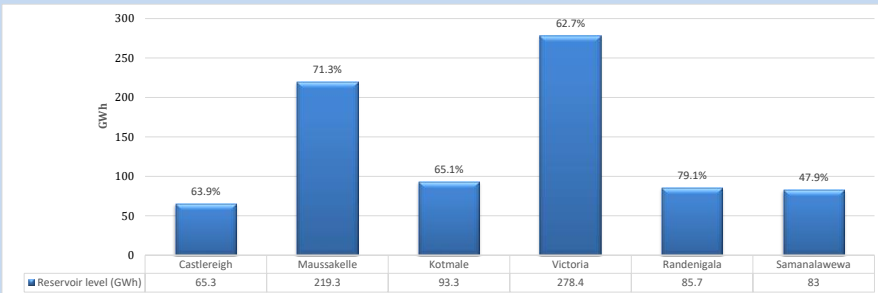
Table 06

Night Peak*	2,229	MW
Day Peak Maximum Demand	1,977	MW
Day Peak Minimum Demand	1,568	MW
Off Peak Minimum Demand	1,138	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 15, 2024



Total Reservoir Level
825 GWh
% of Total capacity
64.5%

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

October 14, 2024

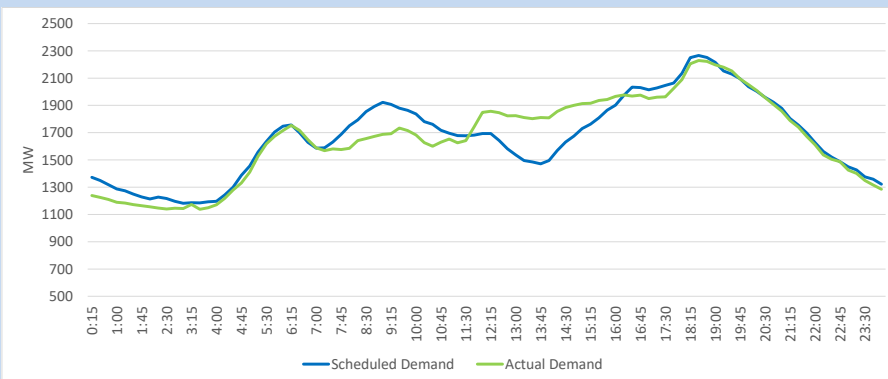
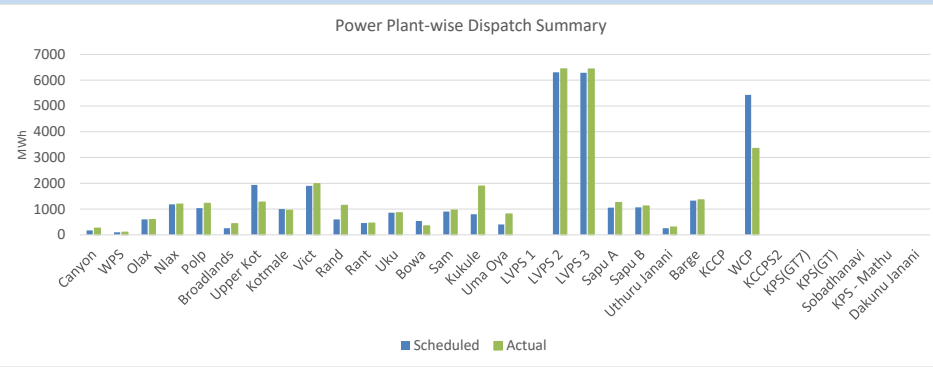


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,726	14,498	1,772
CEB Coal	12,597	12,875	279
CEB Thermal Oil	3,710	4,037	327
IPP Thermal Oil	5,432	3,355	(2,078)
NCRE (Telemetered)	5,561	5,105	(456)
Total	40,025	39,869	(156)

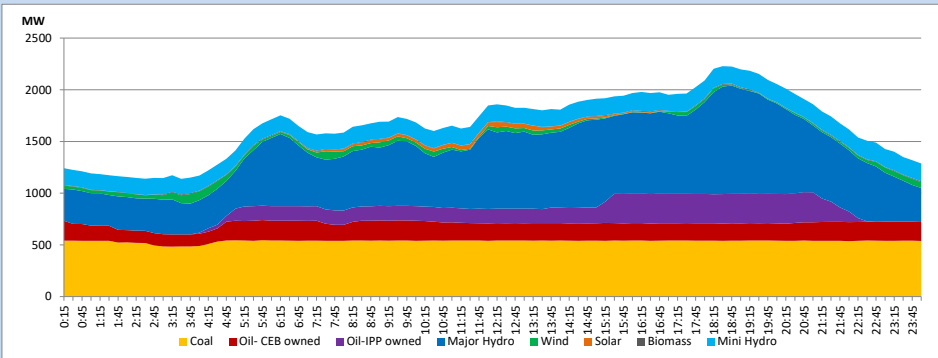
1.12 Power Plant-wise Dispatch Summary

October 14, 2024



1.13 Daily Load Curve

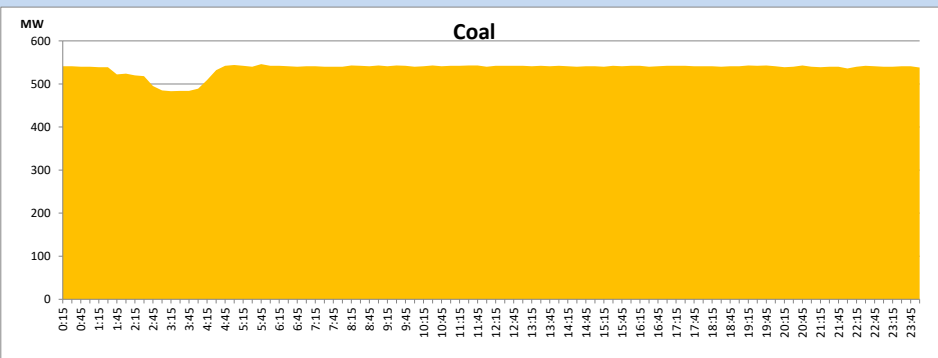
October 14, 2024



Solar and wind data is based on Telemetered Power Stations only

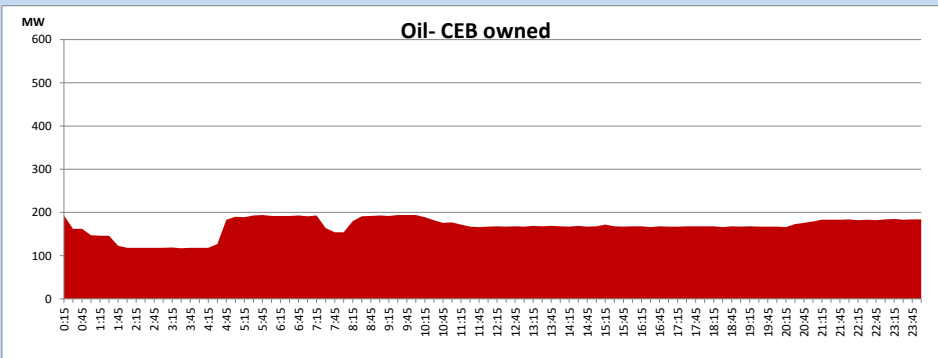
Coal Generation during

October 14, 2024



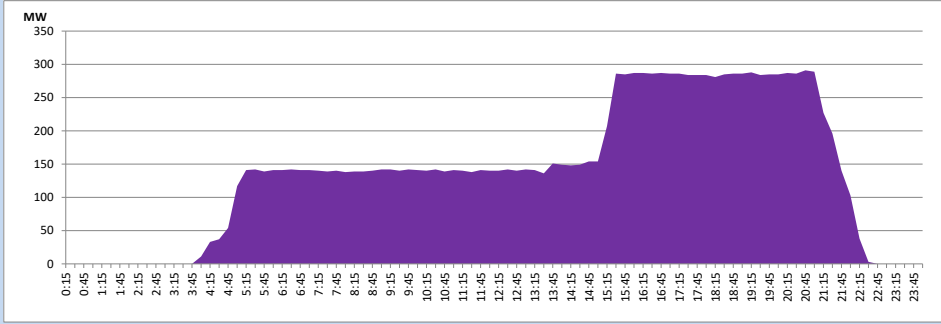
CEB Oil Plant Generation during

October 14, 2024



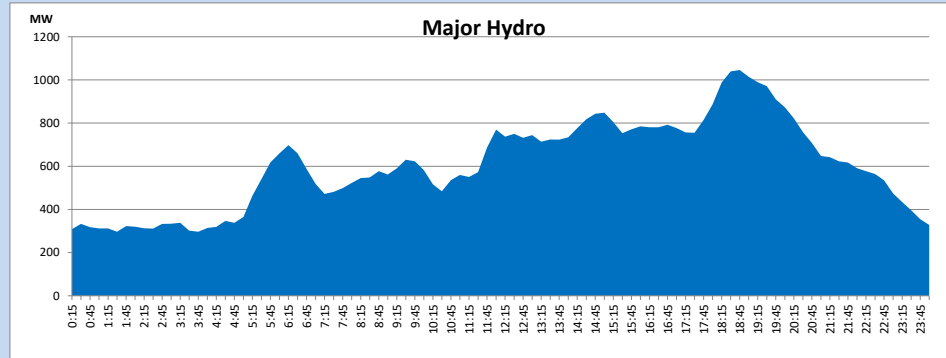
IPP Oil Plant Generation during

October 14, 2024



Major Hydro Generation during

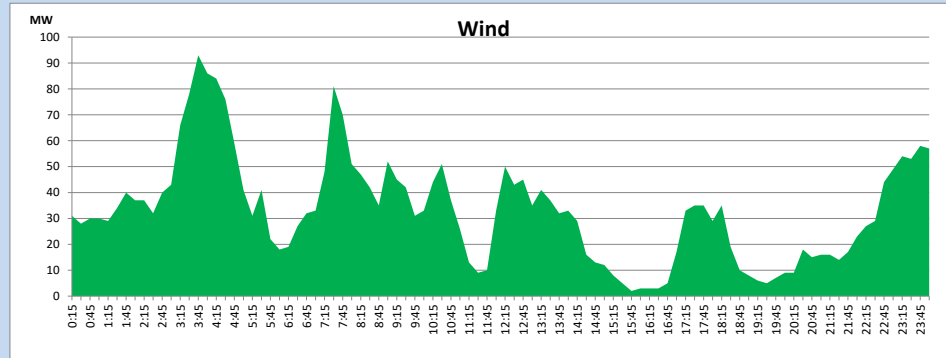
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Wind Generation during

October 14, 2024

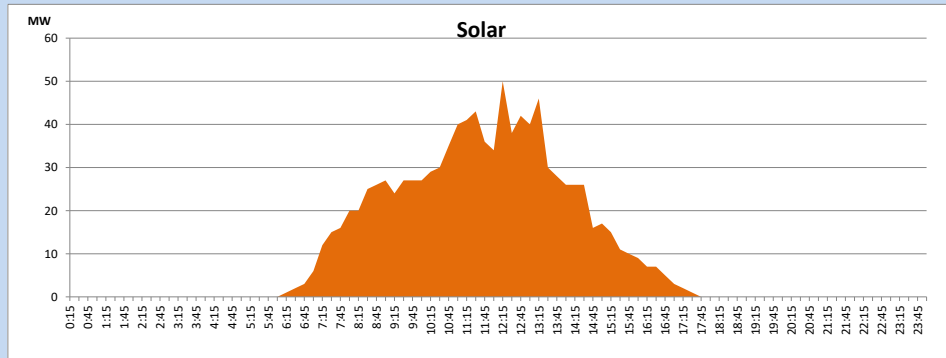
Based on Telemetered Power Stations only



Solar Generation during

October 14, 2024

Based on Telemetered Power Stations only

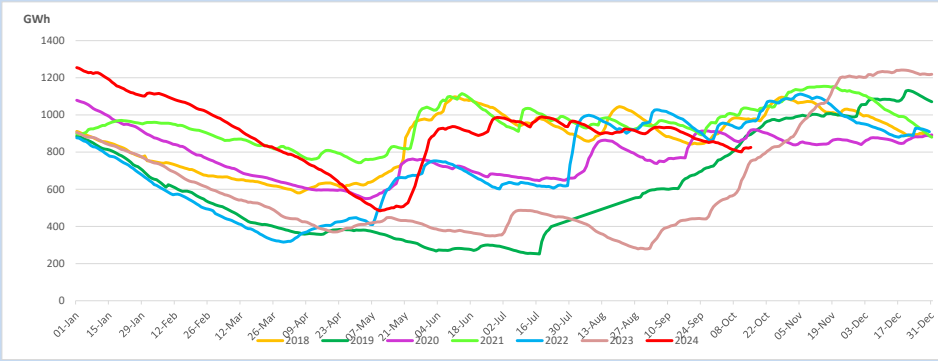


1.14 Major Incidents reported during the day

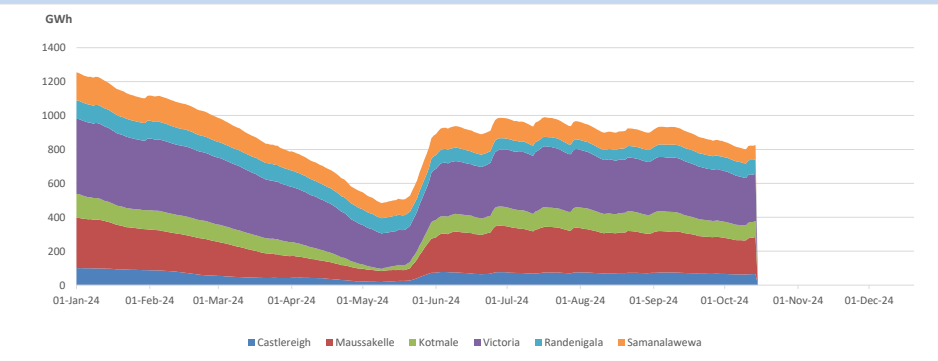
October 14, 2024

- 1) Kulek Ganga pond spilling continues to the present hour.

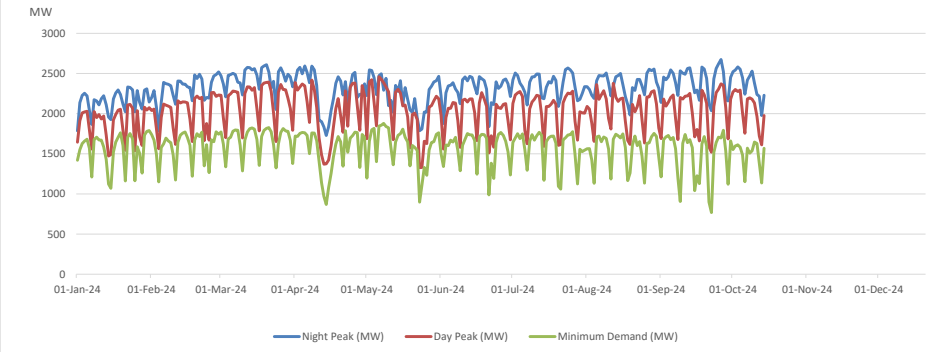
2. Comparison of Total Reservoir Storage Levels with Past Years



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

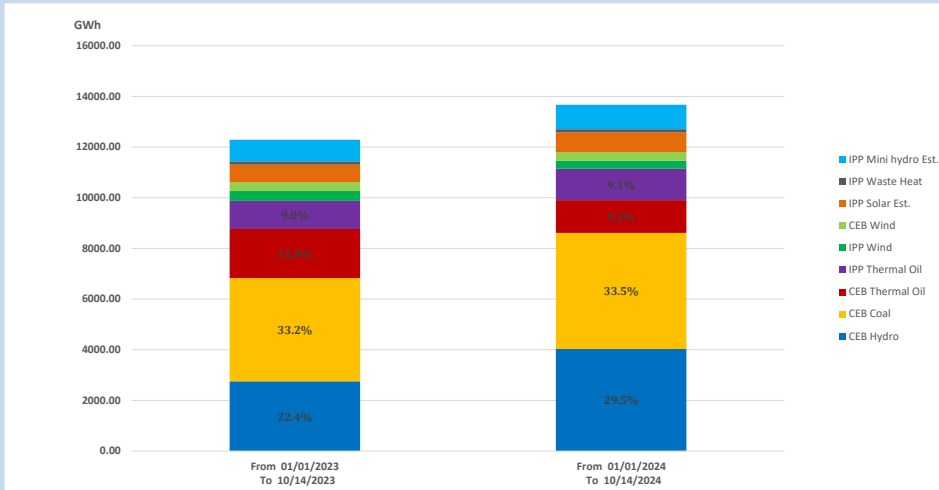


4. Variation of Demand during the current year



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 10/14/2023

12293 GWh

From 01/01/2024 To 10/14/2024

13672 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	1531
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