

Generation and Reservoirs Statistics

October 15, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 15, 2024

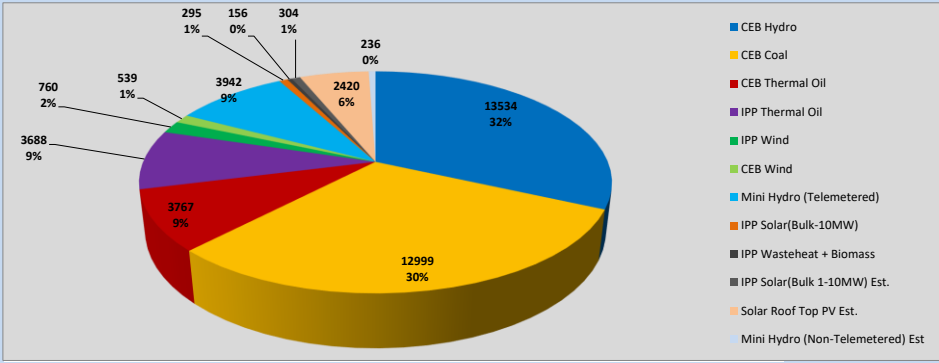


Table 01

	Generation (MWh)
CEB Hydro	13534
CEB Coal	12999
CEB Thermal Oil	3767
IPP Thermal Oil	3688
IPP Wind	760
CEB Wind	539
Mini Hydro (Telemetered)	3942
IPP Solar (Bulk)	295
IPP Waste heat + Biomass	156
Total Generation (Excluding estimated figures)	39,680
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	236
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	42,640

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	191	28.70%
CEB Coal	194	29.15%
CEB Thermal Oil	95	14.34%
IPP Thermal	70	10.51%
IPP Wind	11	1.72%
CEB Wind	14	2.15%
Mini Hydro *	40	6.05%
IPP Solar *	46	6.86%
IPP Waste heat + BMP	3	0.52%
Total	666	

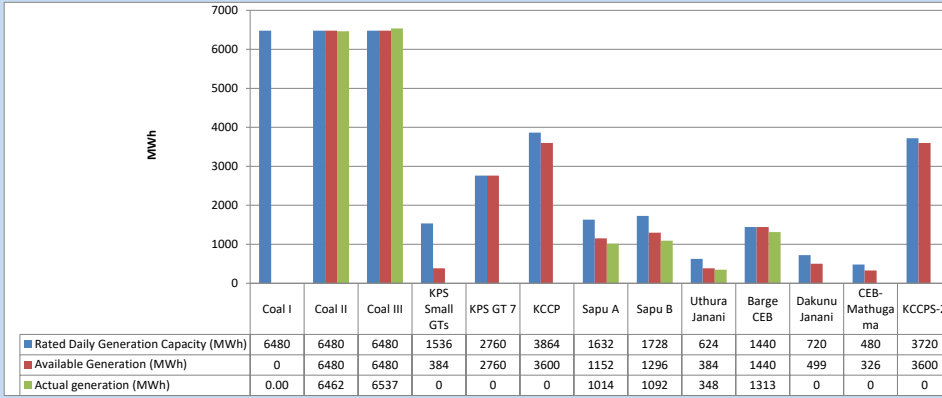
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,044	29.49%
CEB Coal	4,595	33.50%
CEB Thermal Oil	1,297	9.45%
IPP Thermal	1,244	9.07%
IPP Wind	323	2.35%
CEB Wind	333	2.43%
Mini Hydro *	970	7.07%
IPP Solar *	792	5.77%
IPP Waste heat	118	0.86%
Total	13,714	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 15, 2024

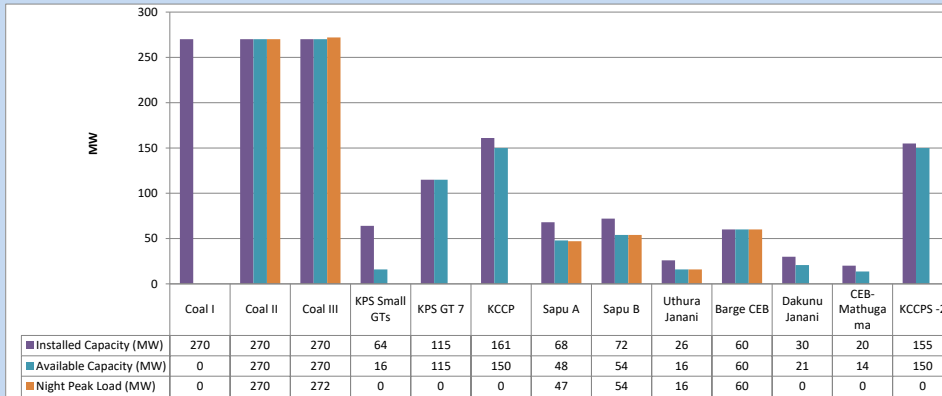


Available Generation is estimated based on plant availability at 6.00am on

October 16, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 15, 2024

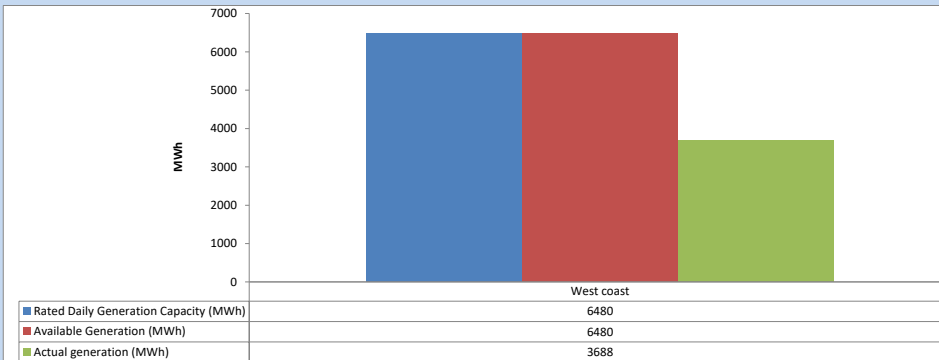


Plant availability is recorded at 6.00 am on

October 16, 2024

1.4 IPP owned Thermal Plant Dispatch

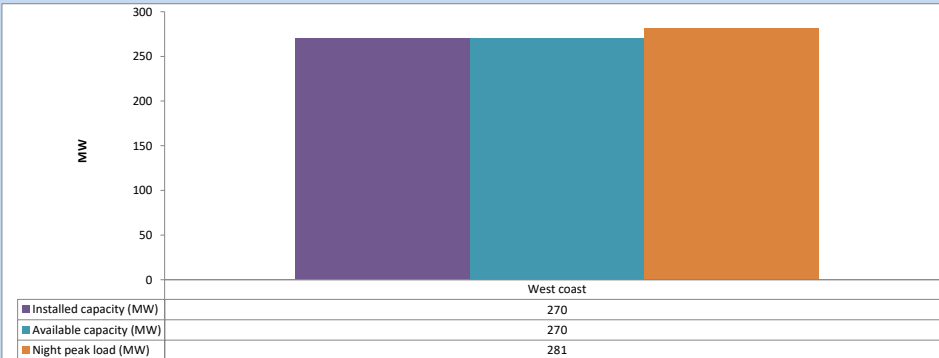
October 15, 2024



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

October 16, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

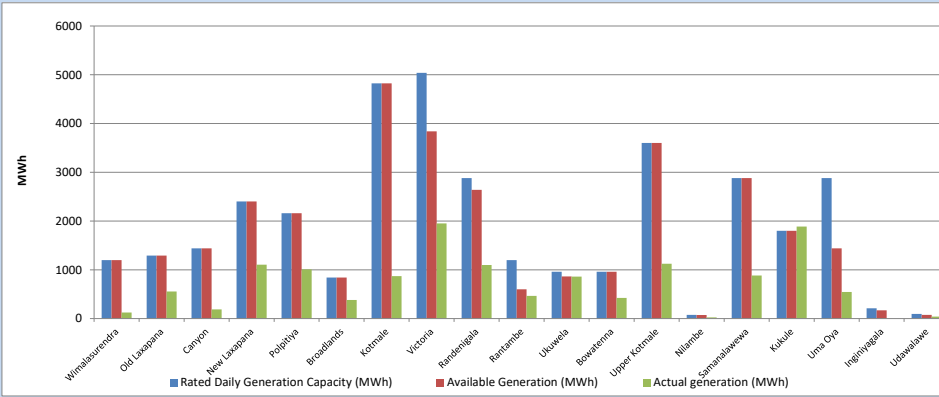


Plant availability is recorded at 6.00 am on

October 16, 2024

1.6 Major Hydro Plant Dispatch

October 15, 2024

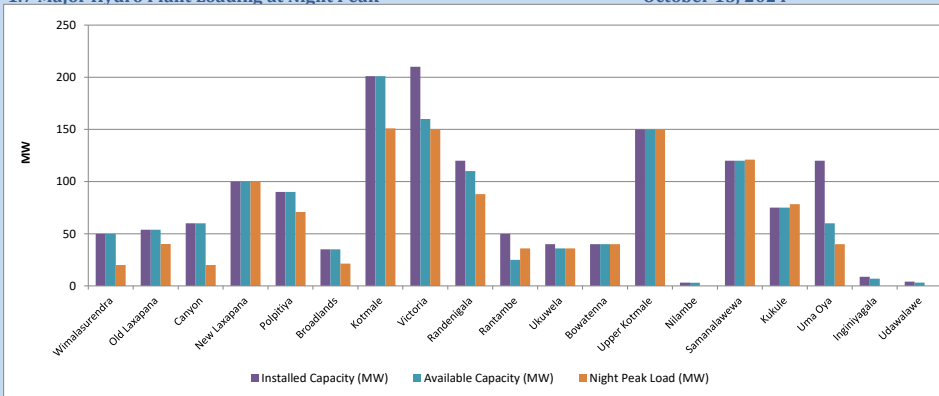


Available Generation is estimated based on plant availability at 6.00am on

October 16, 2024

1.7 Major Hydro Plant Loading at Night Peak

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Plant availability is recorded at 6.00 am on

October 16, 2024

1.8 Summary of Major Plant performance

October 15, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	124
Old Laxapana	54	54	40	556
Canyon	60	60	20	188
New Laxapana	100	100	100	1,104
Polpitiya	90	90	71	1,010
Broadlands	35	35	21	380
Kotmale	201	201	151	870
Victoria	210	160	150	1,951
Randenigala	120	110	88	1,099
Rantambe	50	25	36	464
Ukuwela	40	36	36	862
Bowatenna	40	40	40	424
Upper Kotmale	150	150	150	1,125
Nilambe	3	3	0	24
Samanalawewa	120	120	121	882
Kukule	75	75	78	1,886
Uma Oya	120	60	40	547
Inginipigala	9	7	0	0
Udawalawe	4	3	0	39
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,462
Puttalam Coal III	270	270	272	6,537
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	48	47	1,014
Sapugaskanda B	72	54	54	1,092
Uthura Janani	26	16	16	348
Barge CEB	60	60	60	1,313
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	281	3,688
Sobadhanavi	220	212	0	0
Total	3,602	2,832	2,366	39,681

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

October 16, 2024

1.9 Contribution to the Night Peak in MW

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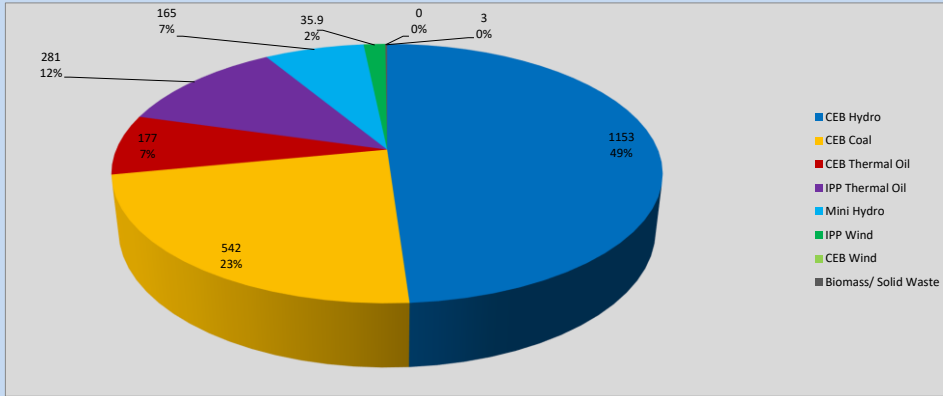


Table 05

CEB Hydro	1153	MW
CEB Coal	542	MW
CEB Thermal Oil	177	MW
IPP Thermal Oil	281	MW
Mini Hydro (Telemetered)	165	MW
IPP Wind	35.9	MW
CEB Wind	0	MW
Biomass/ Solid Waste	3	MW

Recorded Peak Demand Data

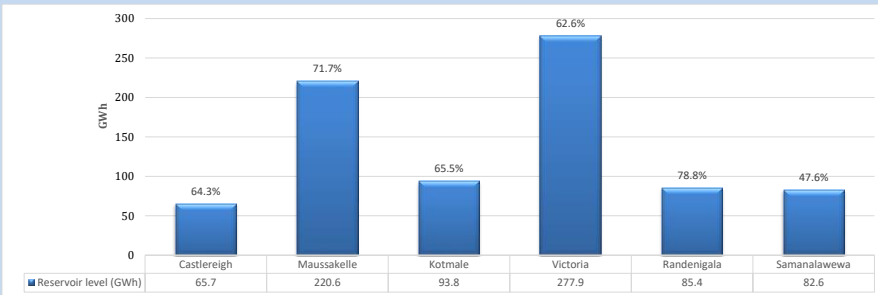
Table 06

Night Peak*	2,357	MW
Day Peak Maximum Demand	2,037	MW
Day Peak Minimum Demand	1,439	MW
Off Peak Minimum Demand	1,170	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 16, 2024



Total Reservoir Level
826 GWh
% of Total capacity
64.6%

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

October 15, 2024

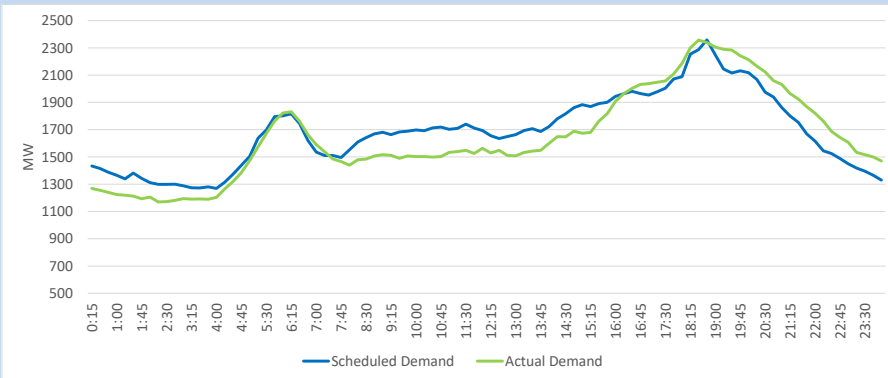
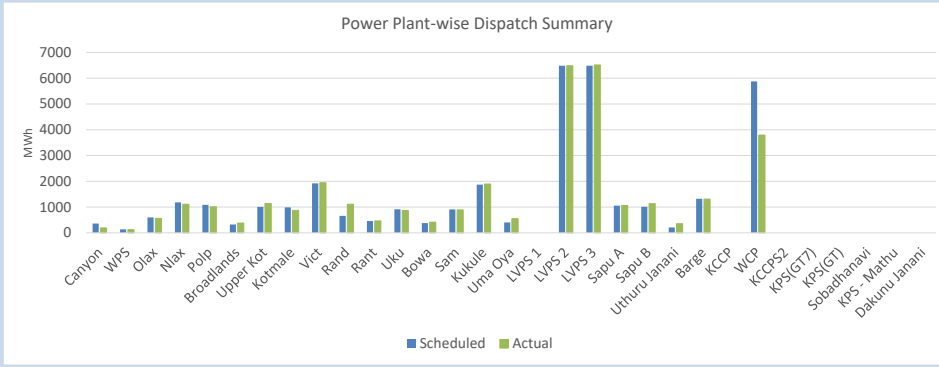


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,190	13,498	308
CEB Coal	12,960	12,999	39
CEB Thermal Oil	3,599	3,854	255
IPP Thermal Oil	5,875	3,792	(2,083)
NCRE (Telemetered)	4,838	5,419	581
Total	40,461	39,561	(900)

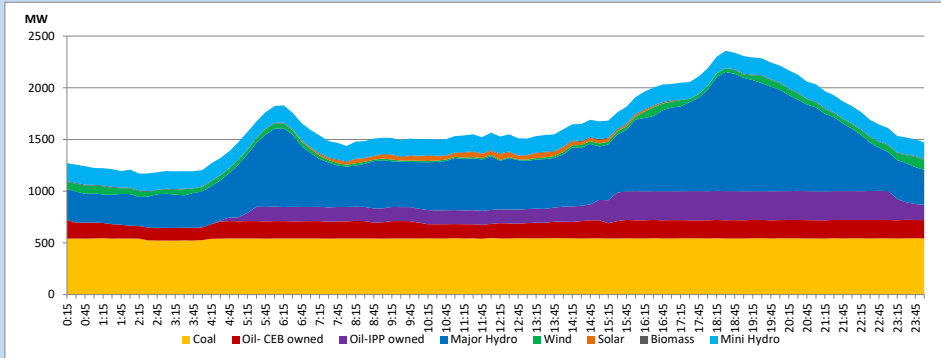
1.12 Power Plant-wise Dispatch Summary

October 15, 2024



1.13 Daily Load Curve

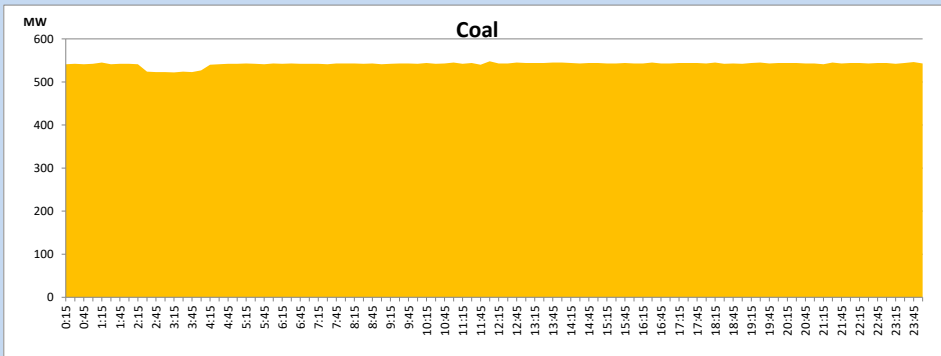
October 15, 2024



Solar and wind data is based on Telemetered Power Stations only

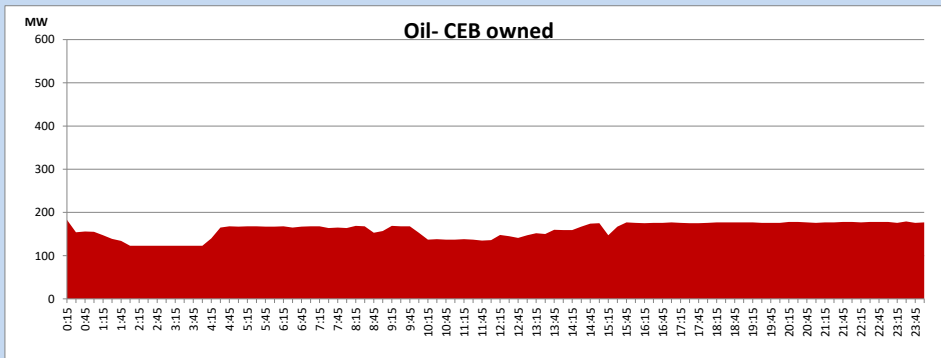
Coal Generation during

October 15, 2024



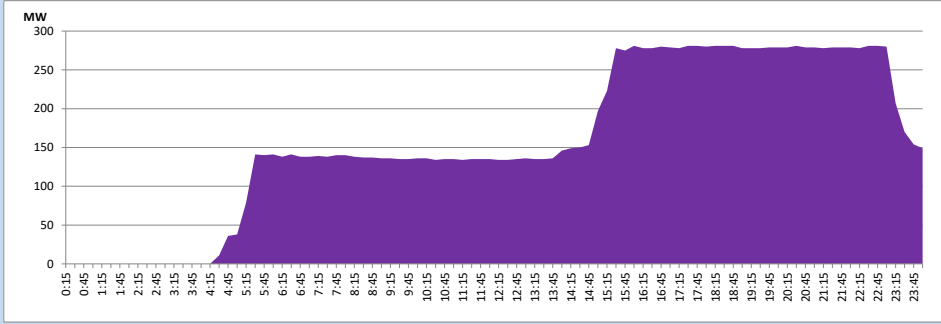
CEB Oil Plant Generation during

October 15, 2024



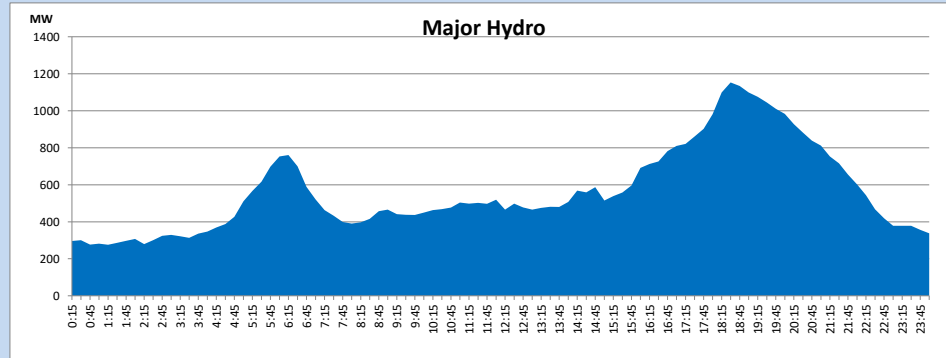
IPP Oil Plant Generation during

October 15, 2024



Major Hydro Generation during

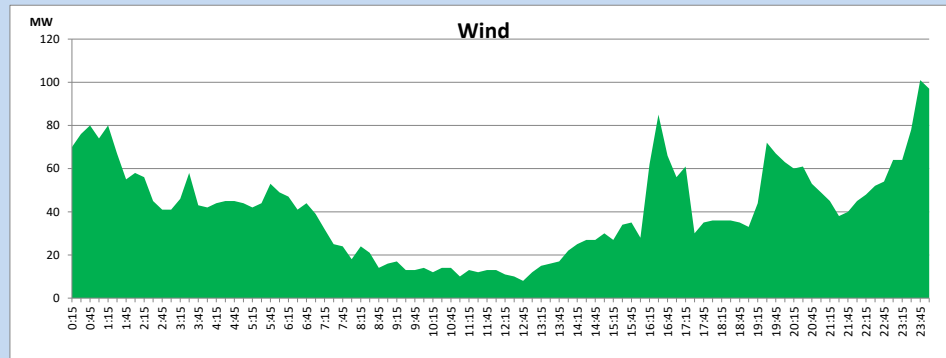
October 15, 2024



Wind Generation during

October 15, 2024

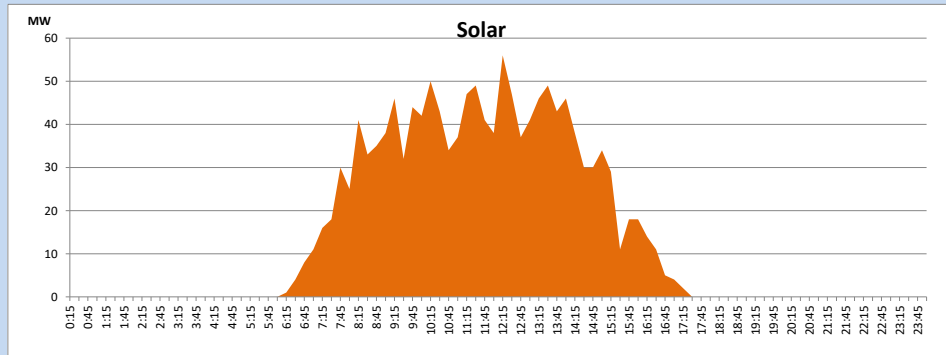
Based on Telemetered Power Stations only



Solar Generation during

October 15, 2024

Based on Telemetered Power Stations only

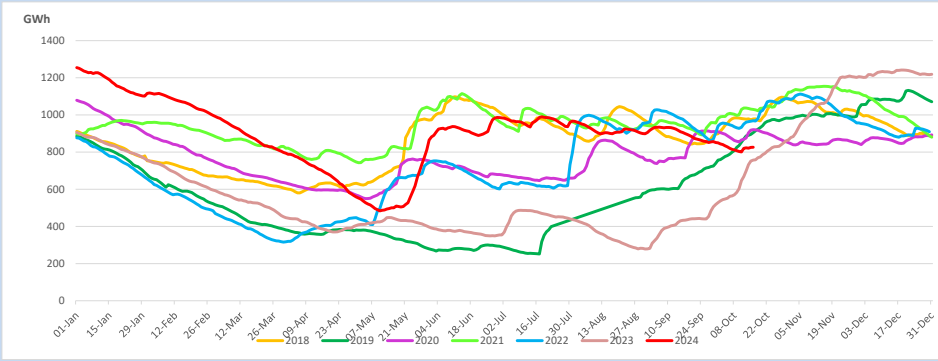


1.14 Major Incidents reported during the day

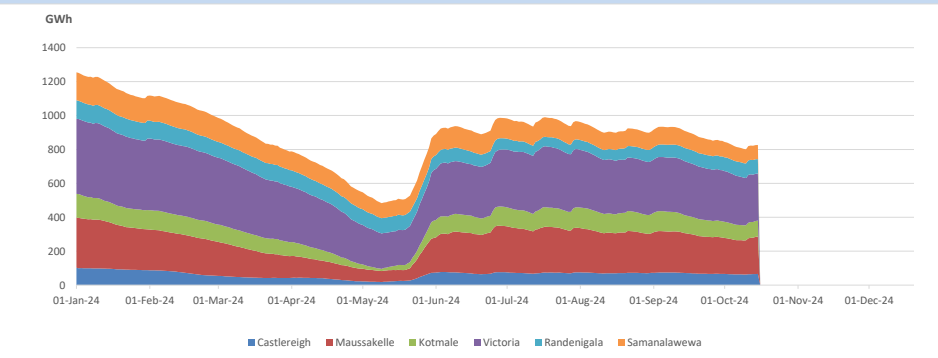
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- 1) Biyagama 220/132/33kV T/F 01 tripped from all ends at 08:47hrs due to the operation of OLTC - Buchholz surge trip. The T/F was normalized at 11:43hrs.
- 2) Kukule Ganga pond spilling stopped at 19:58hrs.

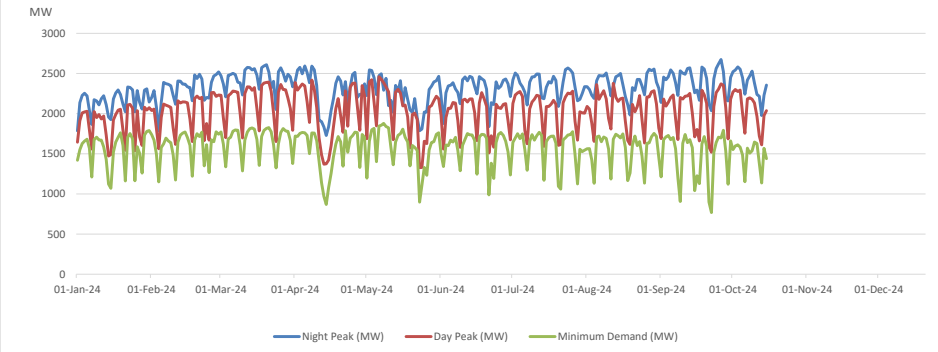
2. Comparison of Total Reservoir Storage Levels with Past Years



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

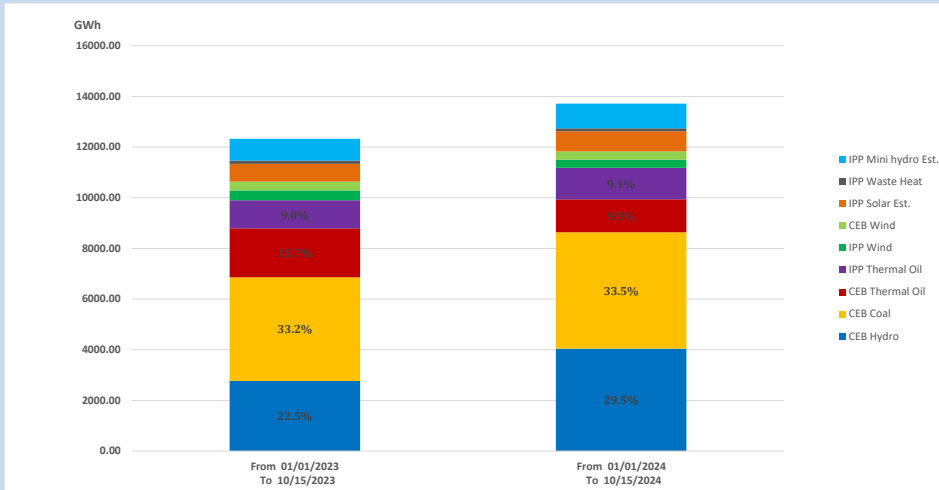


4. Variation of Demand during the current year



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 10/15/2023

12325 GWh

From 01/01/2024 To 10/15/2024

13714 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