

Generation and Reservoirs Statistics

October 31, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 31, 2024

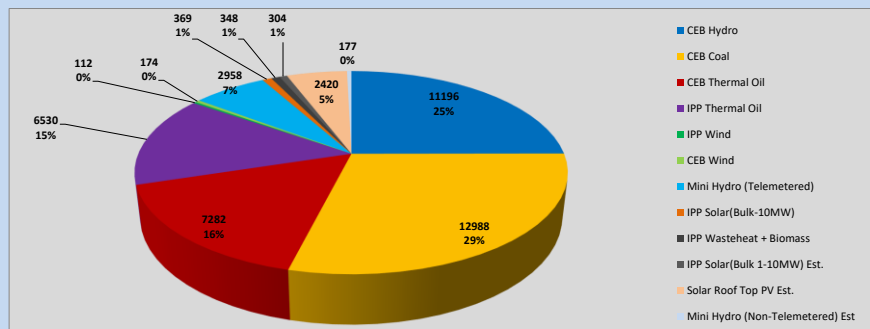


Table 01

	Generation (MWh)
CEB Hydro	11,196
CEB Coal	12,988
CEB Thermal Oil	7,282
IPP Thermal Oil	6,530
IPP Wind	112
CEB Wind	174
Mini Hydro (Telemetered)	2,958
IPP Solar (Bulk)	369
IPP Waste heat + Biomass	348
Total Generation (Excluding estimated figures)	41,957
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	177
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,420
Total Generation (Including estimated figures)	44,858

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	390	28.40%
CEB Coal	400	29.11%
CEB Thermal Oil	199	14.51%
IPP Thermal	135	9.81%
IPP Wind	24	1.74%
CEB Wind	31	2.23%
Mini Hydro *	94	6.81%
IPP Solar *	95	6.91%
IPP Waste heat + BMP	7	0.47%
Total	1,374	

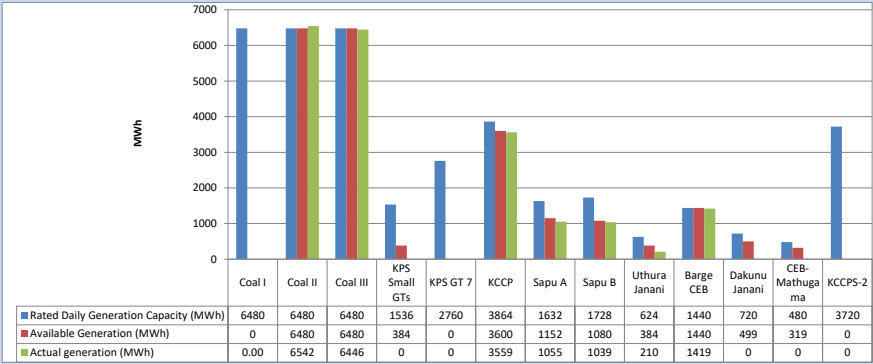
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,240	30.49%
CEB Coal	4,797	34.50%
CEB Thermal Oil	1,399	10.06%
IPP Thermal	698	5.02%
IPP Wind	376	2.71%
CEB Wind	348	2.50%
Mini Hydro *	1,070	7.69%
IPP Solar *	852	6.13%
IPP Waste heat	127	0.92%
Total	13,907	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 31, 2024

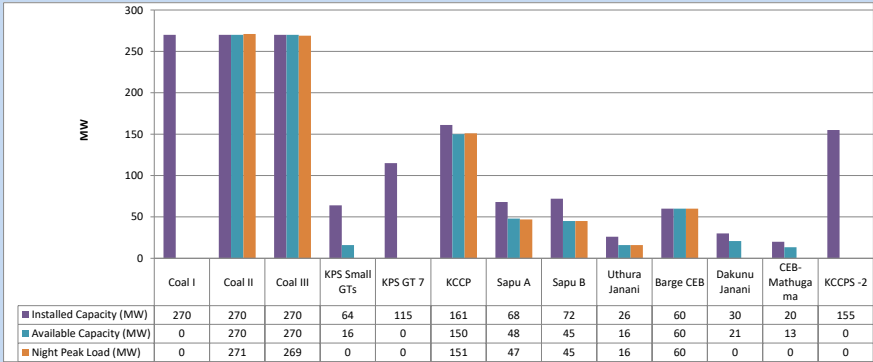


Available Generation is estimated based on plant availability at 6.00am on

November 1, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 31, 2024

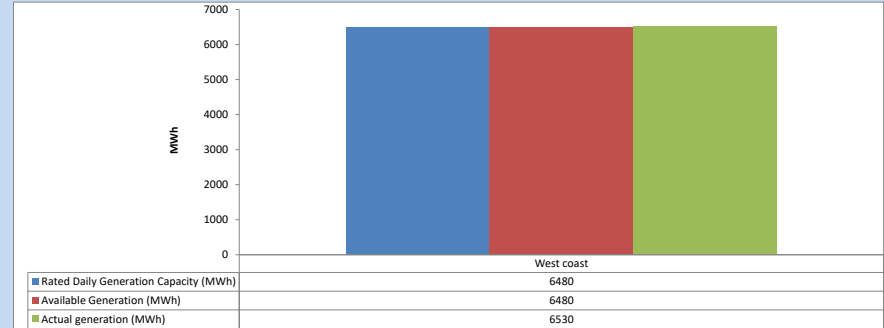


Plant availability is recorded at 6.00 am on

November 1, 2024

1.4 IPP owned Thermal Plant Dispatch

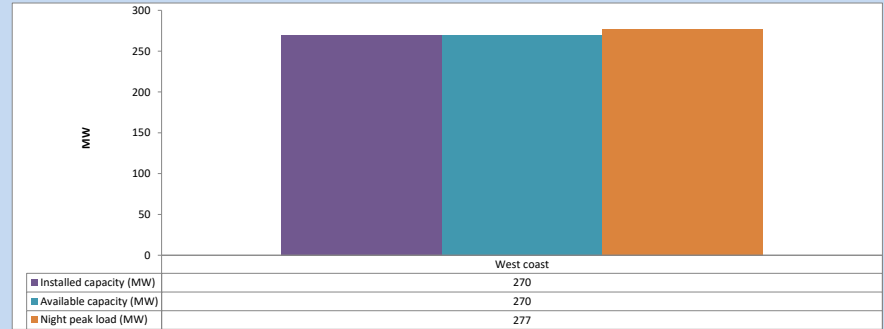
October 31, 2024



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

November 1, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

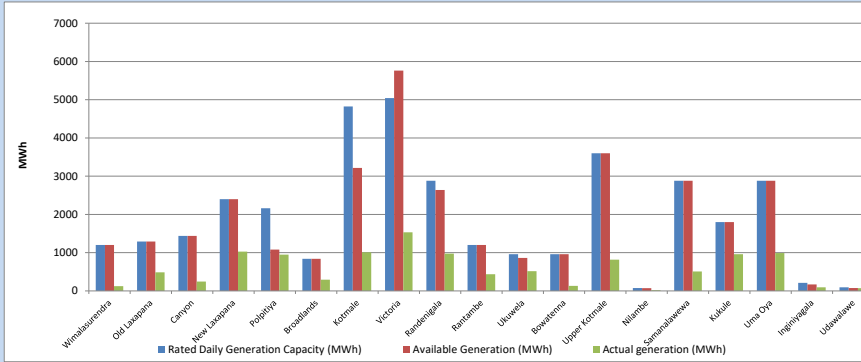


Plant availability is recorded at 6.00 am on

November 1, 2024

1.6 Major Hydro Plant Dispatch

October 31, 2024

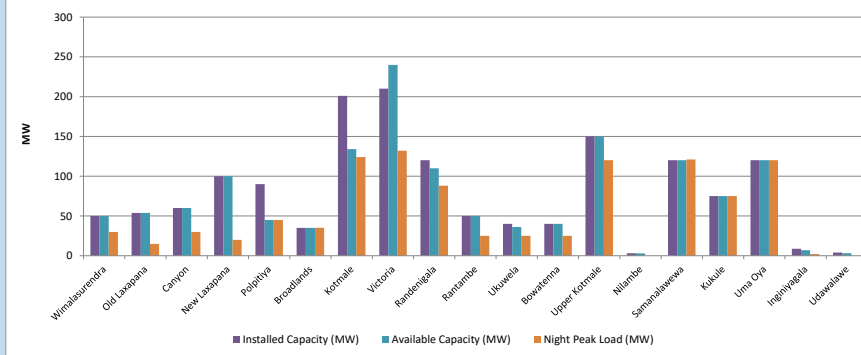


Available Generation is estimated based on plant availability at 6.00am on

November 1, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 31, 2024



Plant availability is recorded at 6.00 am on

November 1, 2024

1.8 Summary of Major Plant performance

October 31, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	124
Old Laxapana	54	54	15	485
Canyon	60	60	30	245
New Laxapana	100	100	20	1,029
Polpitiya	90	45	45	950
Broadlands	35	35	35	295
Kotmale	201	134	124	1,010
Victoria	210	240	132	1,533
Randenigala	120	110	88	977
Rantambe	50	50	25	436
Ukuwela	40	36	25	517
Bowatenna	40	40	25	131
Upper Kotmale	150	150	120	817
Nilambe	3	3	0	19
Samanalawewa	120	120	121	509
Kukule	75	75	75	962
Uma Oya	120	120	120	991
Inginigala	9	7	2	96
Udawalawe	4	3	0	70
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,542
Puttalam Coal III	270	270	269	6,446
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	151	3,559
Sapugaskanda A	68	48	47	1,055
Sapugaskanda B	72	45	45	1,039
Uthura Janani	26	16	16	210
Barge CEB	60	60	60	1,419
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	277	6,530
Sobadhanavi	220	0	0	0
Total	3,602	2,823	2,342	41,957

Note-

Plant availability is the availability recorded at 6 am on

November 1, 2024

1.9 Contribution to the Night Peak in MW

October 31, 2024

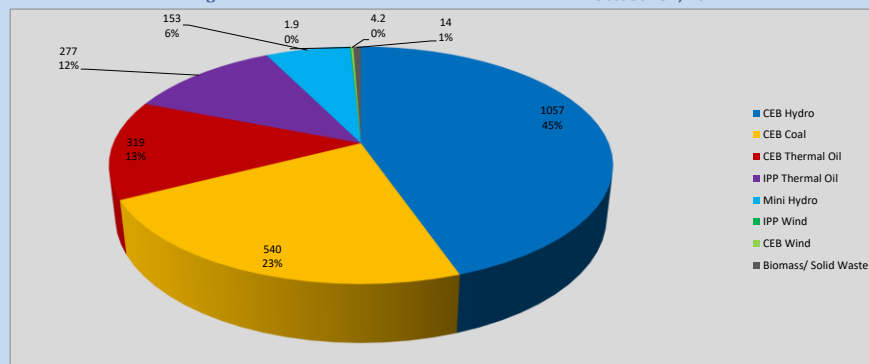


Table 05

CEB Hydro	1057	MW
CEB Coal	540	MW
CEB Thermal Oil	319	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	153	MW
IPP Wind	1.9	MW
CEB Wind	4.2	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

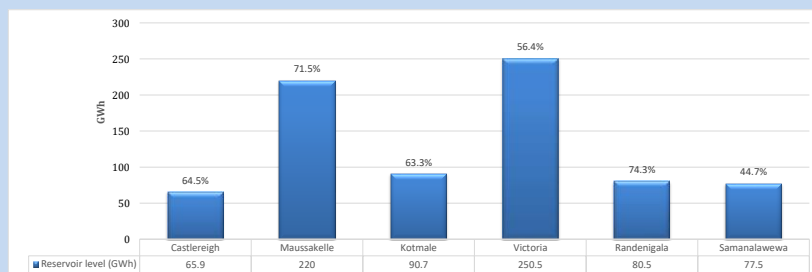
Table 06

Night Peak*	2,367	MW
Day Peak Maximum Demand	2,105	MW
Day Peak Minimum Demand	1,570	MW
Off Peak Minimum Demand	1,428	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 November 1, 2024



Total Reservoir Level
% of Total capacity

785.1 GWh
61.4%

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

October 31, 2024

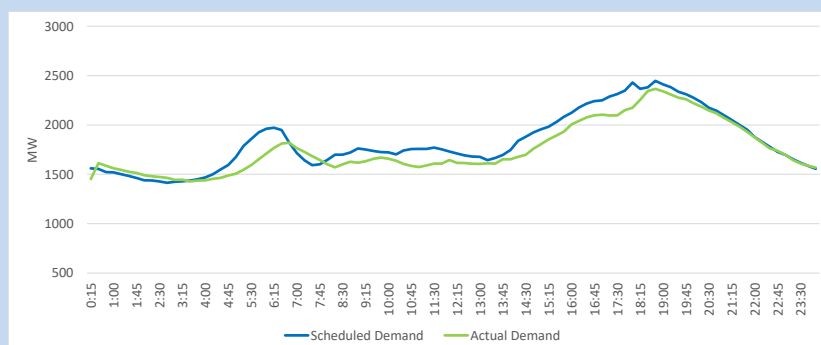
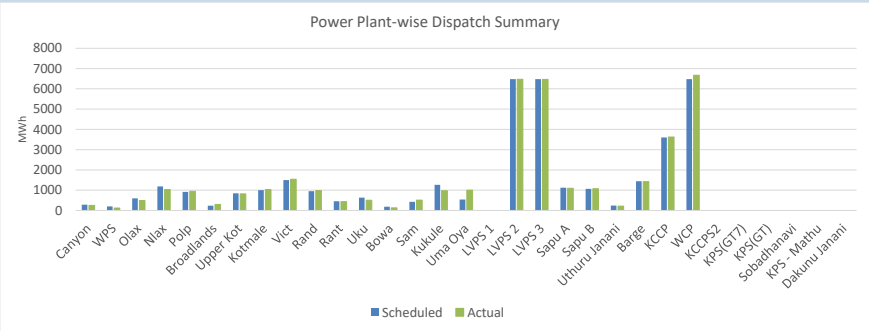


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,240	11,056	(184)
CEB Coal	12,960	12,934	(26)
CEB Thermal Oil	7,471	7,425	(46)
IPP Thermal Oil	6,480	6,673	193
IPP Wind (Telemetered)	5,742	4,077	(1,665)
Total	43,892	42,164	(1,729)

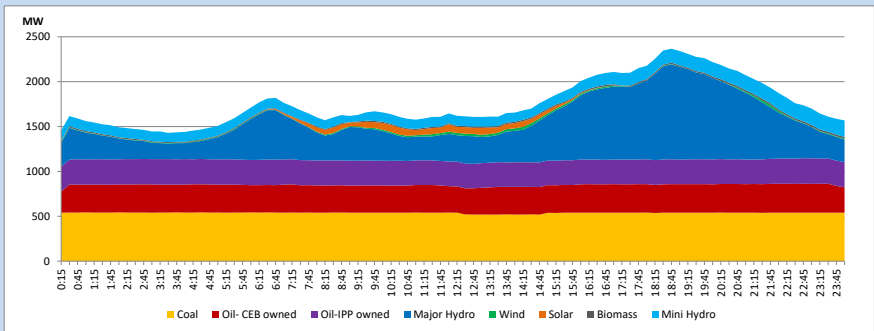
1.12 Power Plant-wise Dispatch Summary

October 31, 2024



1.13 Daily Load Curve

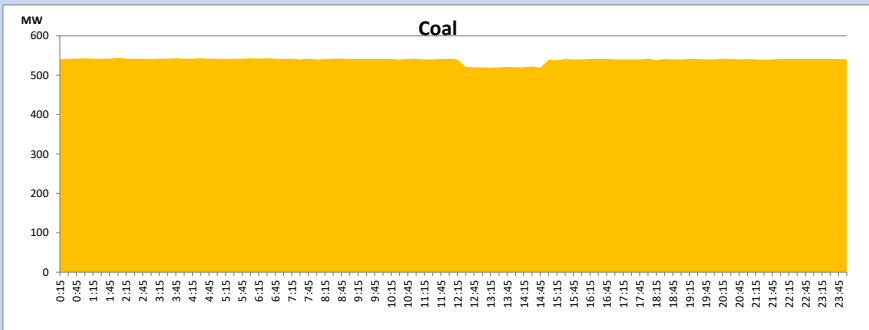
October 31, 2024



Solar and wind data is based on Telemetered Power Stations only

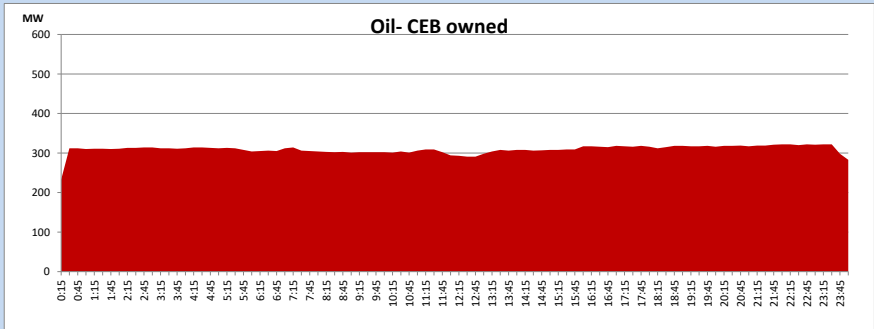
Coal Generation during

October 31, 2024



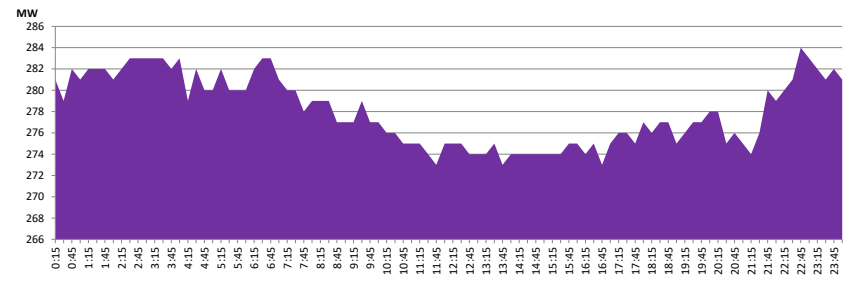
CEB Oil Plant Generation during

October 31, 2024



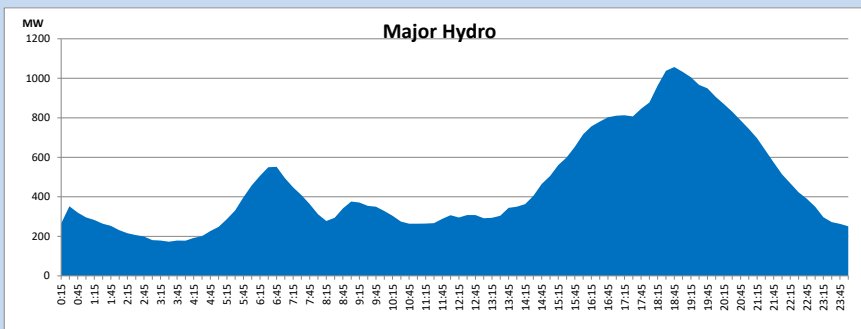
IPP Oil Plant Generation during

October 31, 2024



Major Hydro Generation during

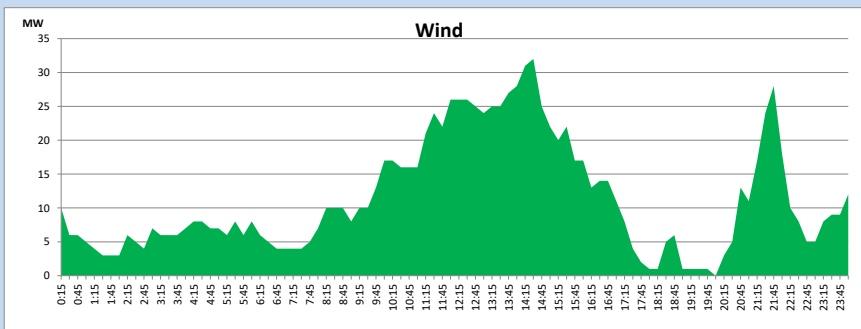
October 31, 2024



Wind Generation during

October 31, 2024

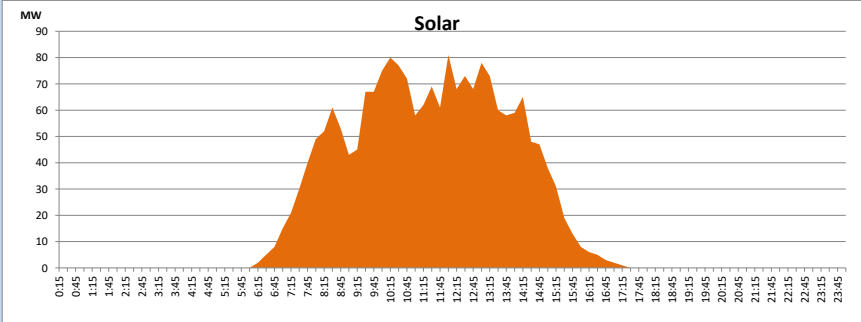
Based on Telemetered Power Stations only



Solar Generation during

October 31, 2024

Based on Telemetered Power Stations only

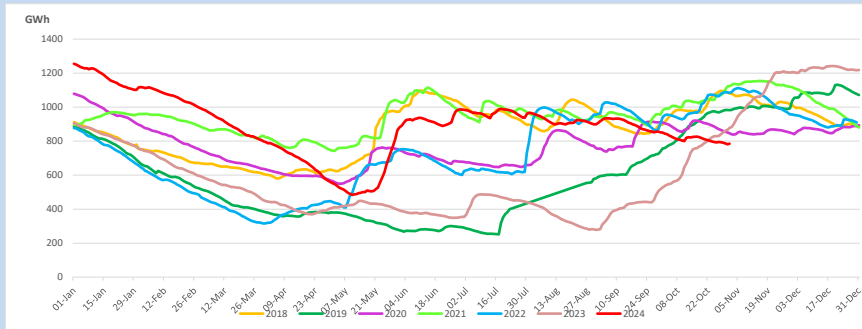


1.14 Major Incidents reported during the day

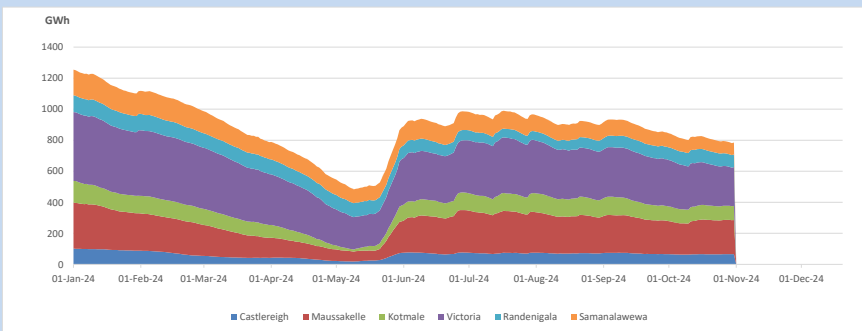
October 31, 2024

- 1) Uthuru Janani unit 01 tripped at 7:18hrs due to operation of reverse power protection and resumed generation at 10:57hrs.
- 2) Laxapana pond spilling started at 18:25hrs and stopped at 18:50hrs.
- 3) Broadland pond spilling started at 18:27hrs and stopped at 19:31hrs.
- 4) Kukule Ganga pond spilling started at 00:30hrs (01.11.2024) and continues to the present hour.

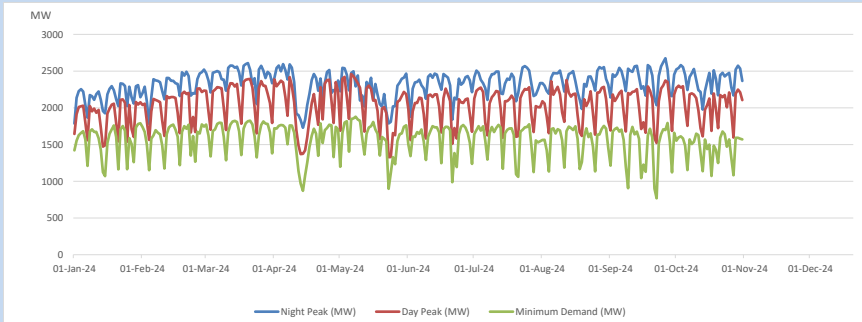
2. Comparison of Total Reservoir Storage Levels with Past Years



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

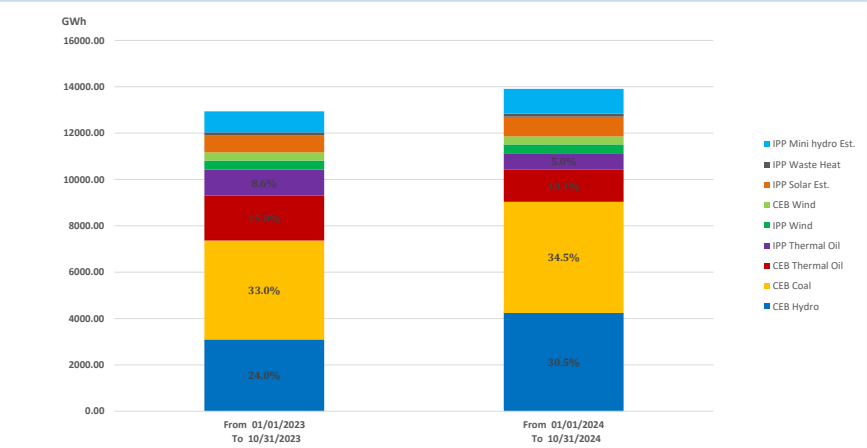


4. Variation of Demand during the current year



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 10/31/2023 12939 GWh
From 01/01/2024 To 10/31/2024 13907 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unservd 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)	482
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	495
Rooftop Solar (LT Bulk)	338
Rooftop Solar (HT Bulk)	104

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities