

Generation and Reservoirs Statistics

October 24, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 24, 2024

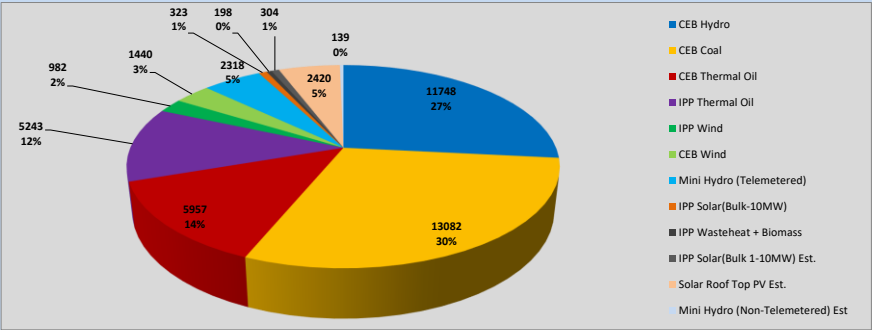


Table 01

	Generation (MWh)
CEB Hydro	11748
CEB Coal	13082
CEB Thermal Oil	5957
IPP Thermal Oil	5243
IPP Wind	982
CEB Wind	1440
Mini Hydro (Telemetered)	2318
IPP Solar (Bulk)	323
IPP Waste heat + Biomass	198
Total Generation (Excluding estimated figures)	41,291
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	139
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	44,154

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	308	28.93%
CEB Coal	310	29.18%
CEB Thermal Oil	154	14.49%
IPP Thermal	103	9.65%
IPP Wind	18	1.70%
CEB Wind	23	2.13%
Mini Hydro *	70	6.56%
IPP Solar *	73	6.88%
IPP Waste heat + BMP	5	0.48%
Total	1,063	

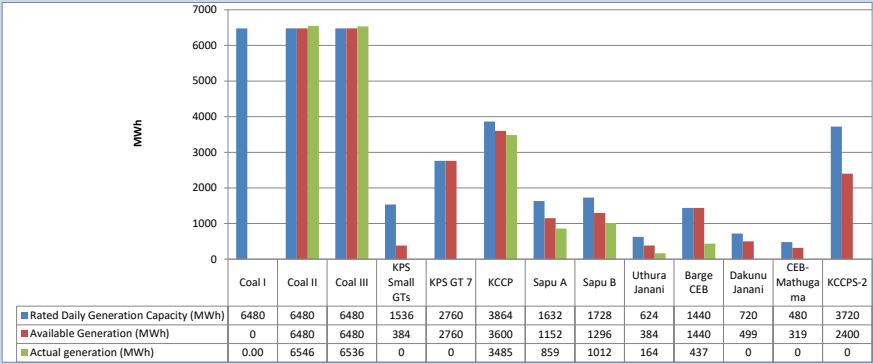
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,161	29.49%
CEB Coal	4,711	33.38%
CEB Thermal Oil	1,355	9.60%
IPP Thermal	1,276	9.04%
IPP Wind	329	2.33%
CEB Wind	341	2.42%
Mini Hydro *	999	7.08%
IPP Solar *	819	5.81%
IPP Waste heat	119	0.85%
Total	14,112	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 24, 2024

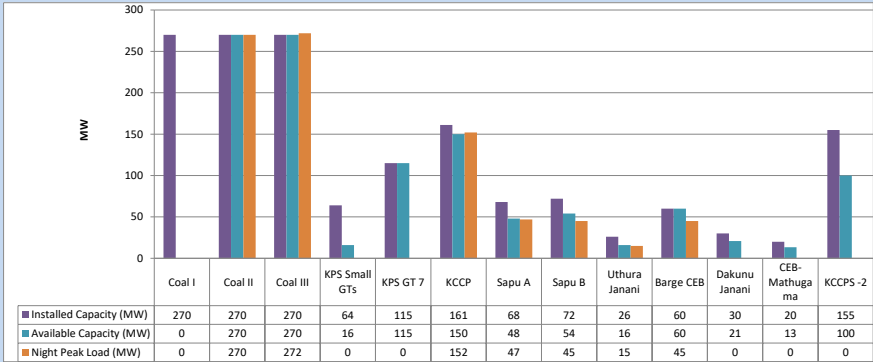


Available Generation is estimated based on plant availability at 6.00am on

October 25, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 24, 2024

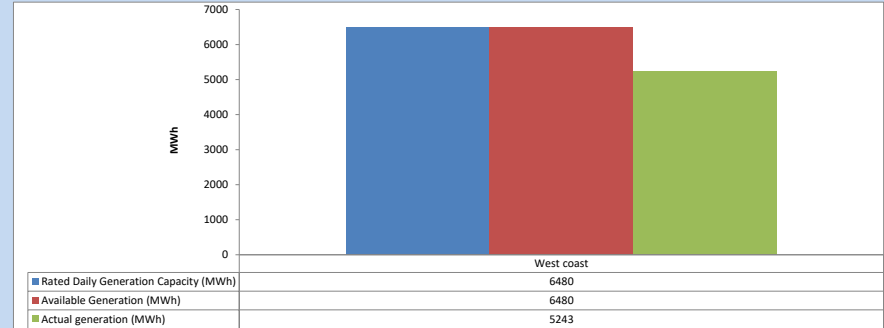


Plant availability is recorded at 6.00 am on

October 25, 2024

1.4 IPP owned Thermal Plant Dispatch

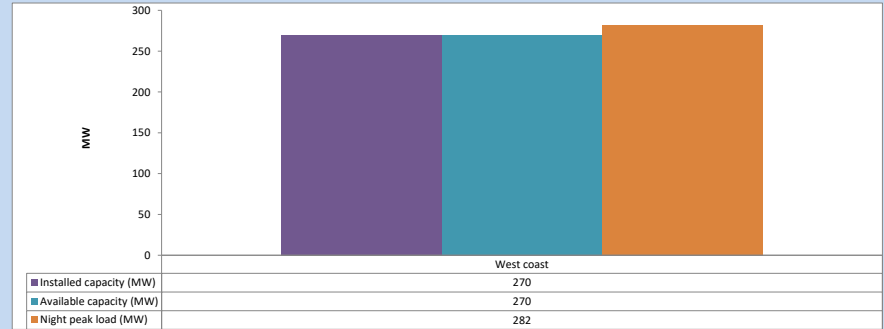
October 24, 2024



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

October 25, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

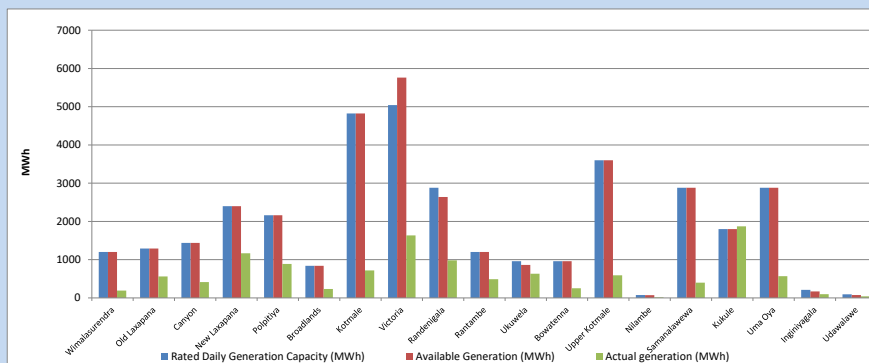


Plant availability is recorded at 6.00 am on

October 25, 2024

1.6 Major Hydro Plant Dispatch

October 24, 2024

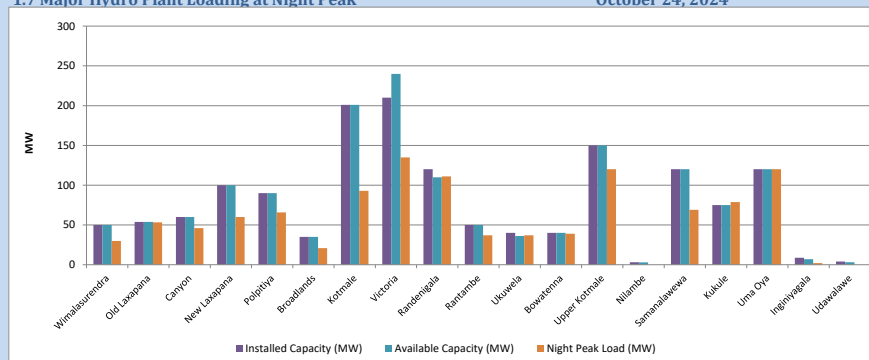


Available Generation is estimated based on plant availability at 6.00am on

October 25, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 24, 2024



Plant availability is recorded at 6.00 am on

October 25, 2024

1.8 Summary of Major Plant performance

October 24, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	191
Old Laxapana	54	54	53	560
Canyon	60	60	46	414
New Laxapana	100	100	60	1,166
Polpitiya	90	90	66	890
Broadlands	35	35	21	232
Kotmale	201	201	93	720
Victoria	210	240	135	1,636
Randenigala	120	110	111	983
Rantambe	50	50	37	489
Ukuwela	40	36	37	632
Bowatenna	40	40	39	254
Upper Kotmale	150	150	120	590
Nilambe	3	3	0	14
Samanalawewa	120	120	69	399
Kukule	75	75	79	1,872
Uma Oya	120	120	120	568
Inginigala	9	7	2	99
Udawalawe	4	3	0	40
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,546
Puttalam Coal III	270	270	272	6,536
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	152	3,485
Sapugaskanda A	68	48	47	859
Sapugaskanda B	72	54	45	1,012
Uthura Janani	26	16	15	164
Barge CEB	60	60	45	437
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	100	0	0
West Coast	270	270	282	5,243
Sobadhanavi	220	0	0	0
Total	3,602	3,159	2,442	41,292

Note-

Plant availability is the availability recorded at 6 am on

October 25, 2024

1.9 Contribution to the Night Peak in MW

October 24, 2024

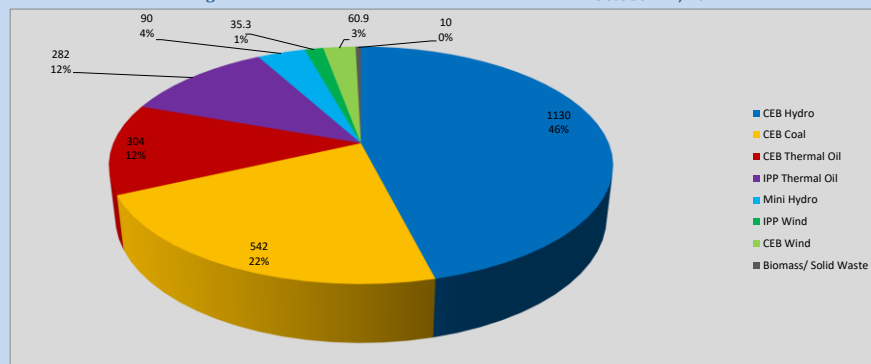


Table 05

CEB Hydro	1130	MW
CEB Coal	542	MW
CEB Thermal Oil	304	MW
IPP Thermal Oil	282	MW
Mini Hydro (Telemetered)	90	MW
IPP Wind	35.3	MW
CEB Wind	60.9	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

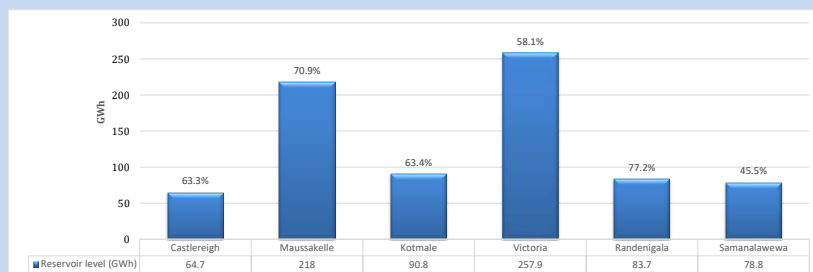
Table 06

Night Peak*	2,455	MW
Day Peak Maximum Demand	2,008	MW
Day Peak Minimum Demand	1,471	MW
Off Peak Minimum Demand	1,302	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 25, 2024



Total Reservoir Level
% of Total capacity

793.9 GWh
62.1%

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

October 24, 2024

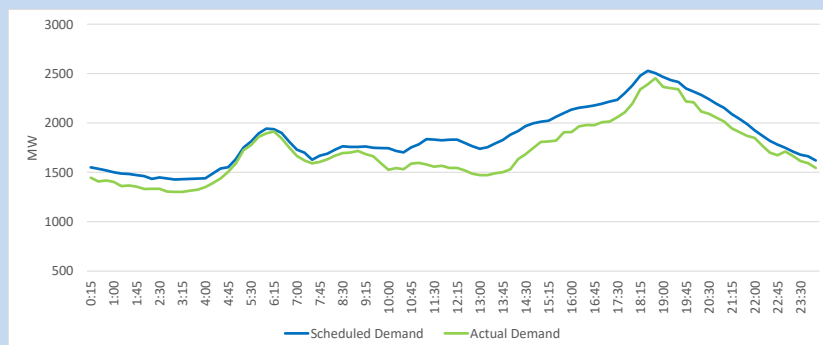
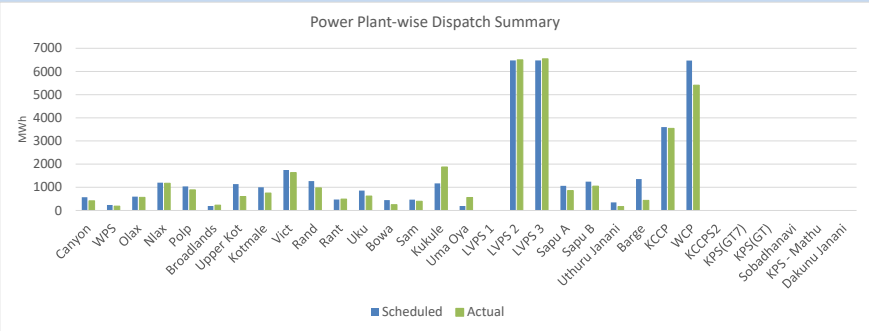


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,605	11,626	(980)
CEB Coal	12,953	13,044	91
CEB Thermal Oil	7,606	6,050	(1,556)
IPP Thermal Oil	6,472	5,409	(1,063)
NCRE (Telemetered)	4,910	5,050	140
Total	44,545	41,178	(3,367)

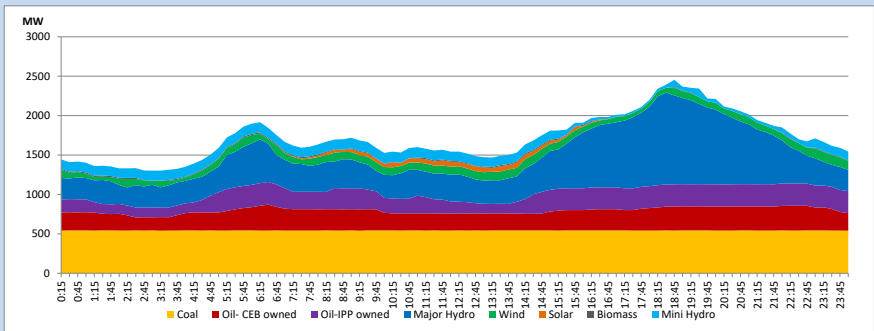
1.12 Power Plant-wise Dispatch Summary

October 24, 2024



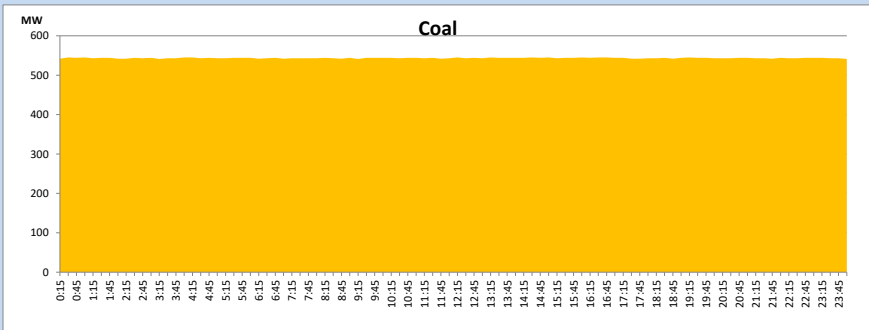
1.13 Daily Load Curve

October 24, 2024



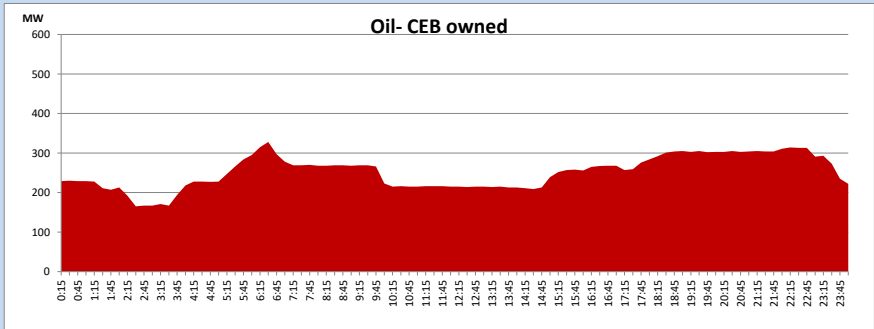
Coal Generation during

October 24, 2024



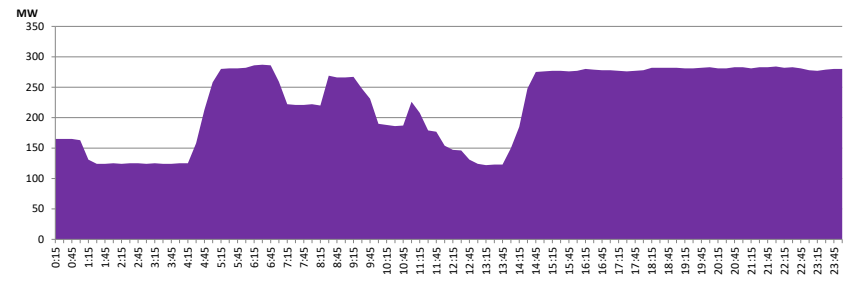
CEB Oil Plant Generation during

October 24, 2024



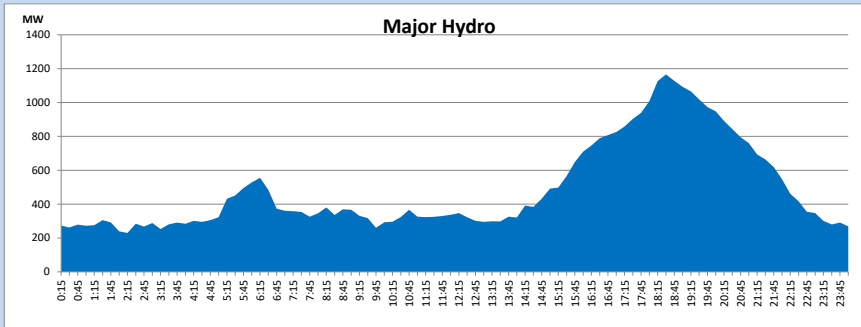
IPP Oil Plant Generation during

October 24, 2024



Major Hydro Generation during

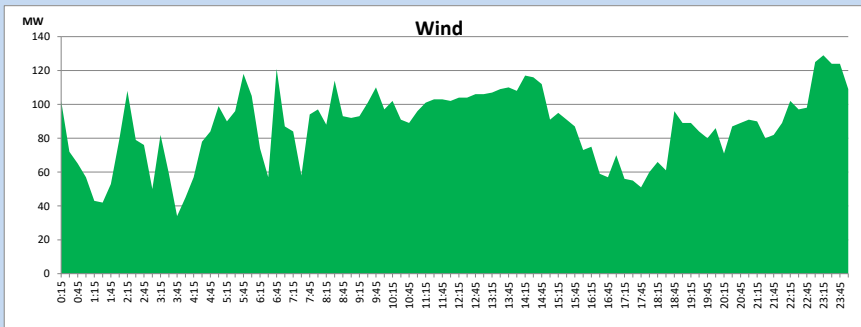
October 24, 2024



Wind Generation during

October 24, 2024

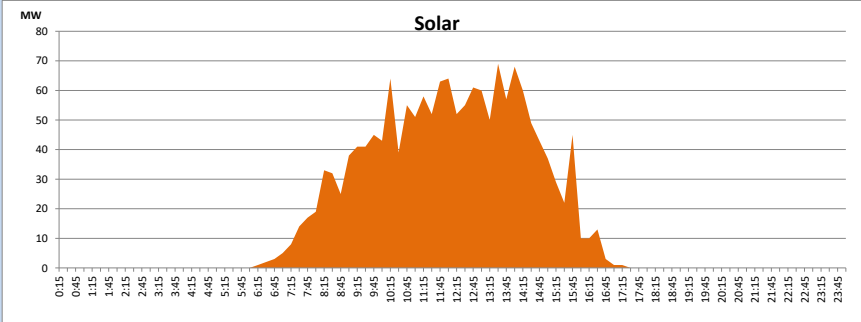
Based on Telemetered Power Stations only



Solar Generation during

October 24, 2024

Based on Telemetered Power Stations only

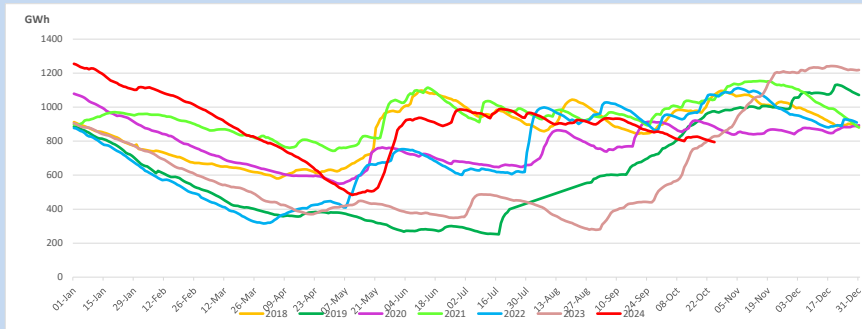


1.14 Major Incidents reported during the day

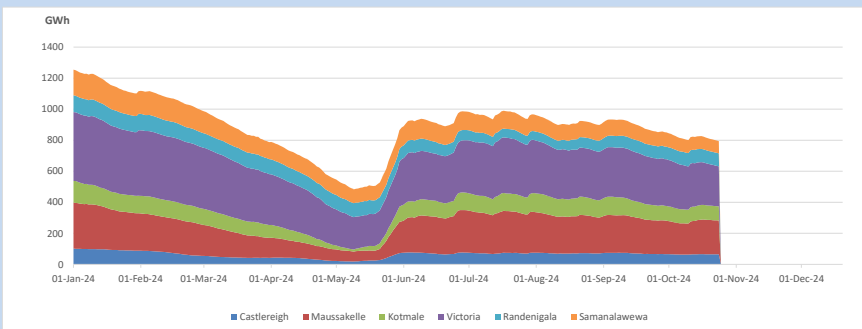
October 24, 2024

- 1) Rantambe unit 02 was made available at 10:59hrs after the A/M which had been facilitated from 01.10.2024.
- 2) KCCPS-2 GT was made available for open cycle mode testing purpose at 21:28hrs, after the forced outage of KCCPS2-Kelanitissa 220kV cable surge arrestor failure which occurred on 19.10.2024. KCCPS-2 ST is yet to resume generation.
- 3) Victoria unit 03 was made available at 22:51hrs after the A/M which had been facilitated from 08.09.2024.
- 4) Kukule pond spilling started at 08:51hrs and stopped at 23:30hrs.

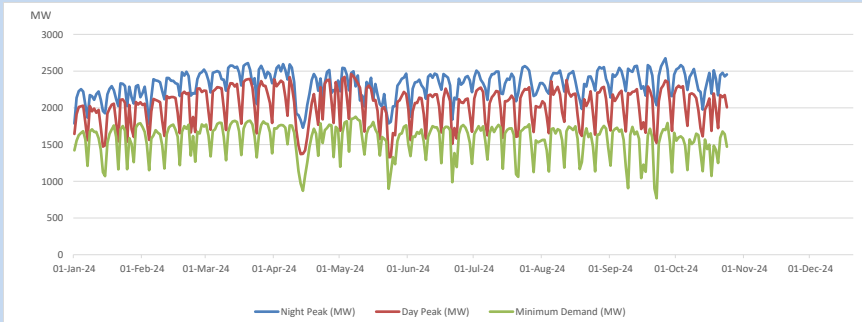
2. Comparison of Total Reservoir Storage Levels with Past Years



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

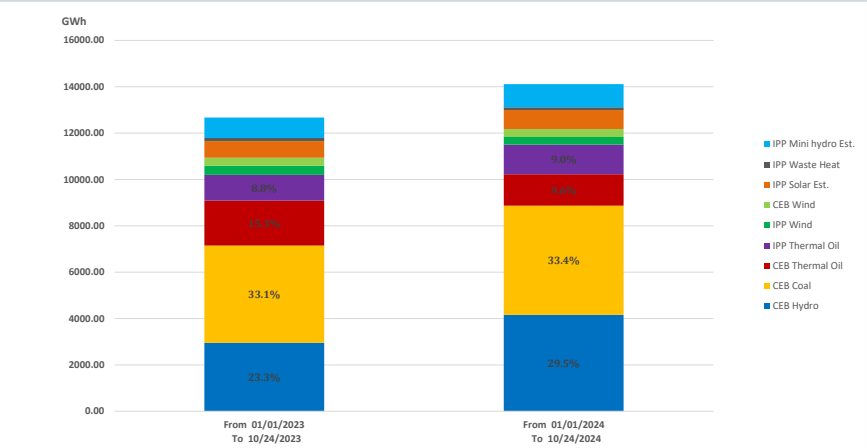


4. Variation of Demand during the current year



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 10/24/2023 12674 GWh
From 01/01/2024 To 10/24/2024 14112 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)	420
Rooftop Solar (LT Bulk)	317
Rooftop Solar (HT Bulk)	98

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