

Generation and Reservoirs Statistics

October 22, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 22, 2024

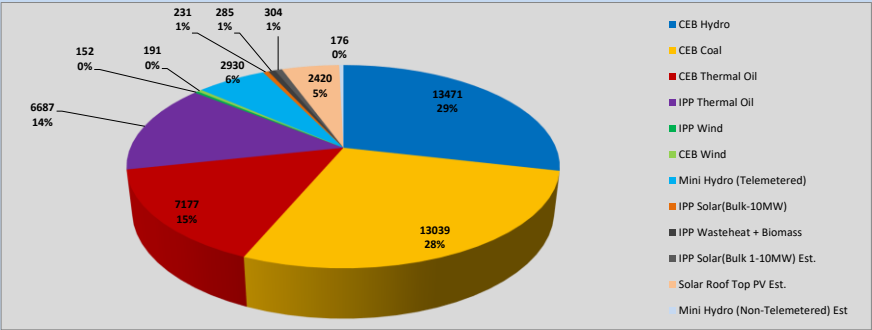


Table 01

	Generation (MWh)
CEB Hydro	13471
CEB Coal	13039
CEB Thermal Oil	7177
IPP Thermal Oil	6687
IPP Wind	152
CEB Wind	191
Mini Hydro (Telemetered)	2930
IPP Solar (Bulk)	231
IPP Waste heat + Biomass	285
Total Generation (Excluding estimated figures)	44,163
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	176
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	47,063

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	284	29.15%
CEB Coal	284	29.21%
CEB Thermal Oil	141	14.45%
IPP Thermal	91	9.33%
IPP Wind	17	1.73%
CEB Wind	21	2.16%
Mini Hydro *	64	6.61%
IPP Solar *	67	6.90%
IPP Waste heat + BMP	5	0.47%
Total	973	

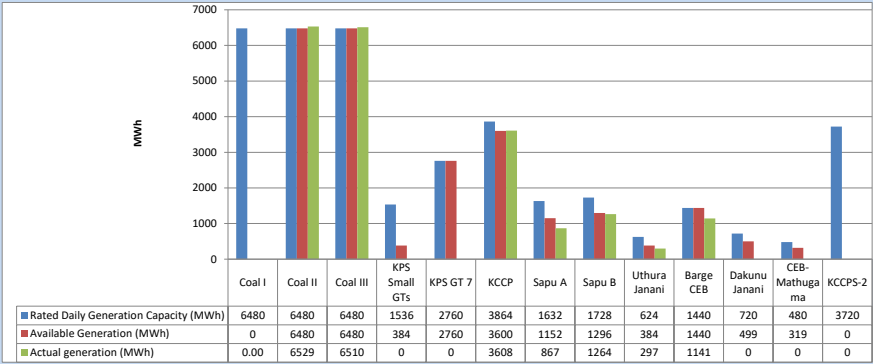
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,137	29.50%
CEB Coal	4,685	33.41%
CEB Thermal Oil	1,342	9.57%
IPP Thermal	1,265	9.02%
IPP Wind	328	2.34%
CEB Wind	339	2.42%
Mini Hydro *	994	7.09%
IPP Solar *	813	5.80%
IPP Waste heat	119	0.85%
Total	14,021	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 22, 2024

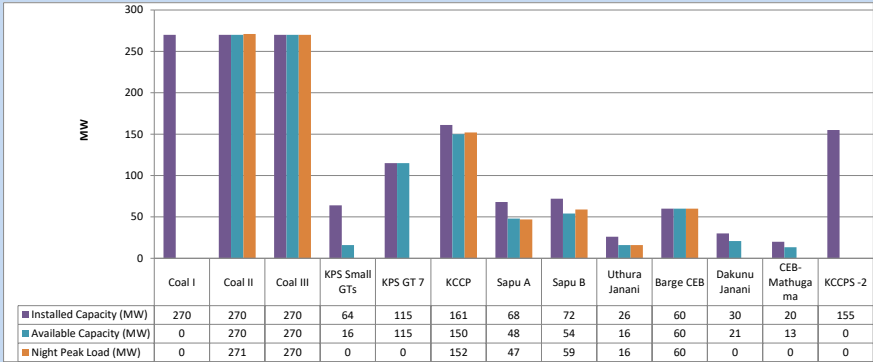


Available Generation is estimated based on plant availability at 6.00am on

October 23, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 22, 2024

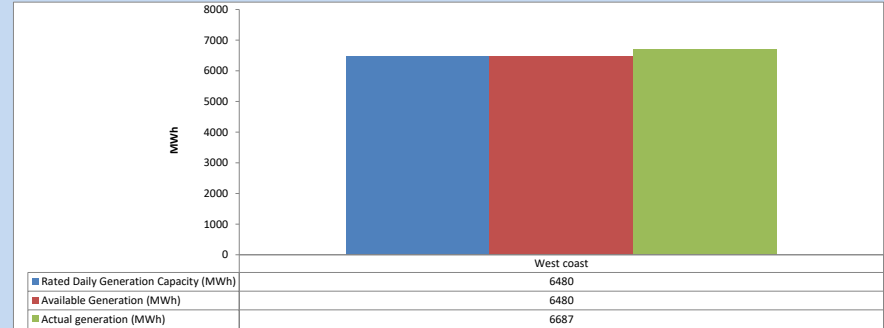


Plant availability is recorded at 6.00 am on

October 23, 2024

1.4 IPP owned Thermal Plant Dispatch

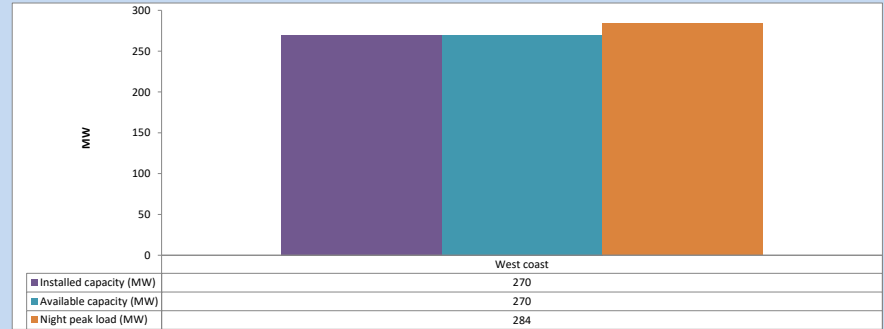
October 22, 2024



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

October 23, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

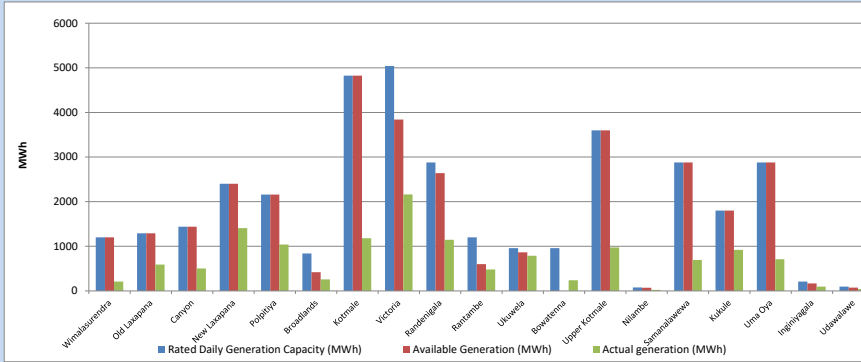


Plant availability is recorded at 6.00 am on

October 23, 2024

1.6 Major Hydro Plant Dispatch

October 22, 2024

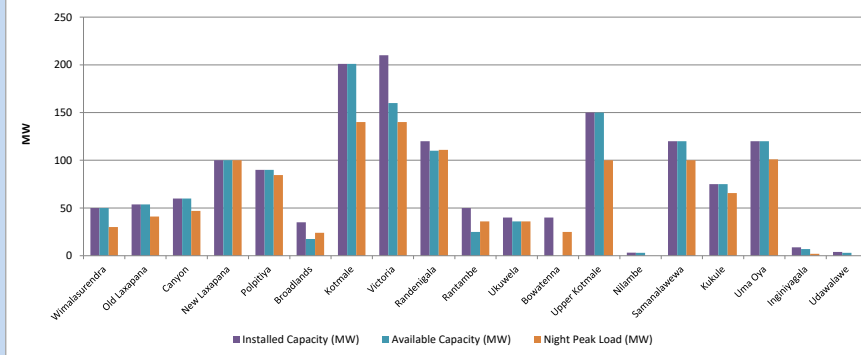


Available Generation is estimated based on plant availability at 6.00am on

October 23, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 22, 2024



Plant availability is recorded at 6.00 am on

October 23, 2024

1.8 Summary of Major Plant performance

October 22, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	211
Old Laxapana	54	54	41	590
Canyon	60	60	47	503
New Laxapana	100	100	100	1,408
Polpitiya	90	90	85	1,040
Broadlands	35	18	24	257
Kotmale	201	201	140	1,180
Victoria	210	160	140	2,164
Randenigala	120	110	111	1,146
Rantambe	50	25	36	482
Ukuwela	40	36	36	788
Bowatenna	40	0	25	239
Upper Kotmale	150	150	100	976
Nilambe	3	3	0	23
Samanlalawewa	120	120	100	695
Kukule	75	75	66	920
Uma Oya	120	120	101	711
Inginiyagala	9	7	2	97
Udawalawe	4	3	0	42
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,529
Puttalam Coal III	270	270	270	6,510
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	152	3,608
Sapugaskanda A	68	48	47	867
Sapugaskanda B	72	54	59	1,264
Uthura Janani	26	16	16	297
Barge CEB	60	60	60	1,141
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	284	6,687
Sobadhanavi	220	0	0	0
Total	3,602	2,897	2,488	44,164

Note-

Plant availability is the availability recorded at 6 am on

October 23, 2024

1.9 Contribution to the Night Peak in MW

October 22, 2024

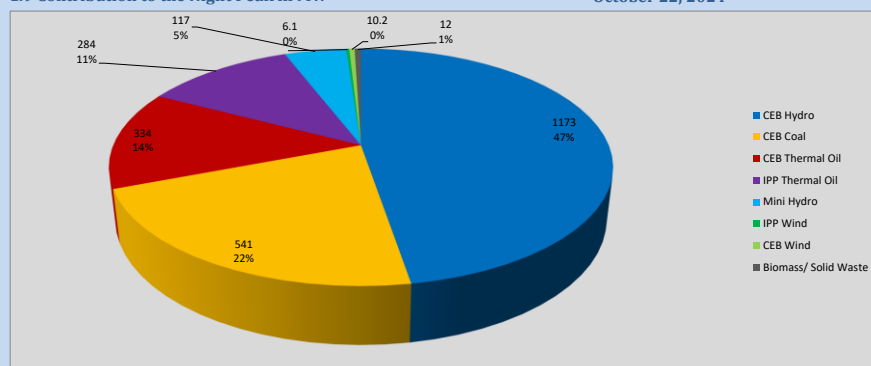


Table 05

CEB Hydro	1173	MW
CEB Coal	541	MW
CEB Thermal Oil	334	MW
IPP Thermal Oil	284	MW
Mini Hydro (Telemetered)	117	MW
IPP Wind	6.1	MW
CEB Wind	10.2	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

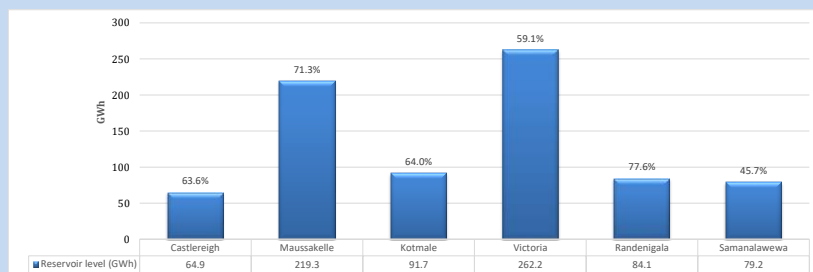
Table 06

Night Peak*	2,478	MW
Day Peak Maximum Demand	2,145	MW
Day Peak Minimum Demand	1,678	MW
Off Peak Minimum Demand	1,377	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 23, 2024



Total Reservoir Level
% of Total capacity

801.4 GWh
62.7%

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

October 22, 2024

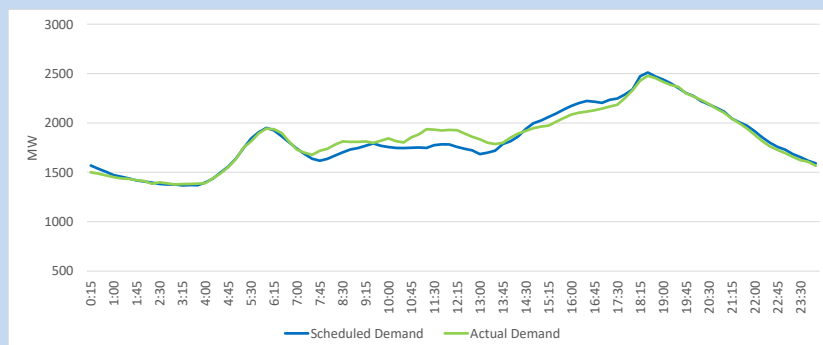
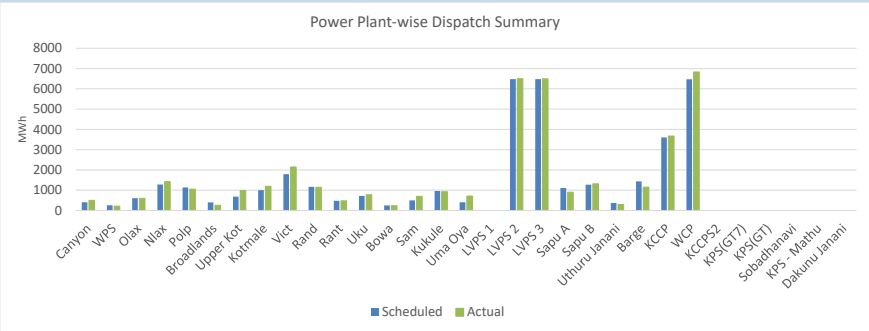


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,030	13,318	1,287
CEB Coal	12,960	12,990	30
CEB Thermal Oil	7,791	7,338	(453)
IPP Thermal Oil	6,472	6,832	360
IPP Wind (Telemetered)	4,750	3,794	(956)
Total	44,003	44,271	268

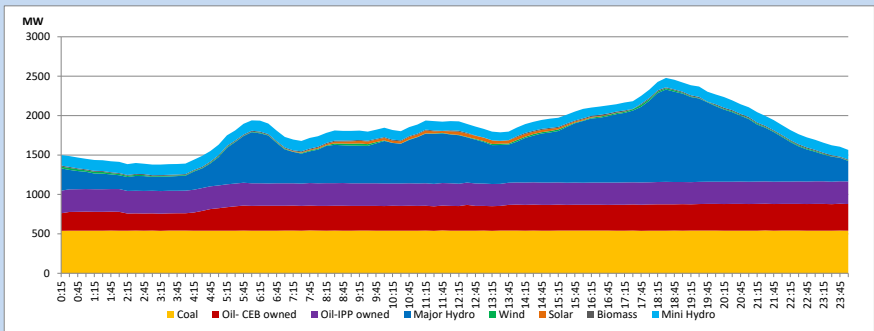
1.12 Power Plant-wise Dispatch Summary

October 22, 2024



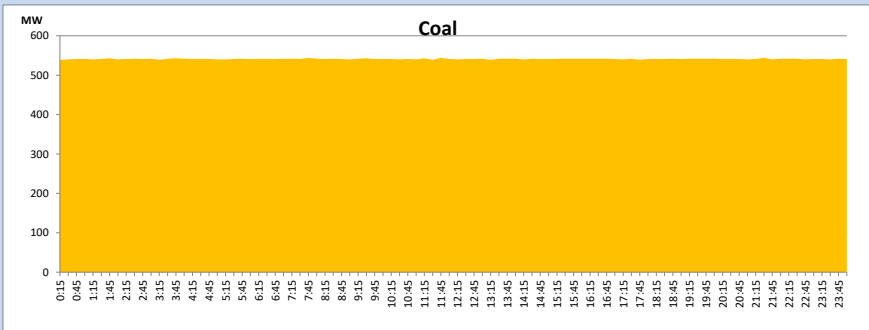
1.13 Daily Load Curve

October 22, 2024



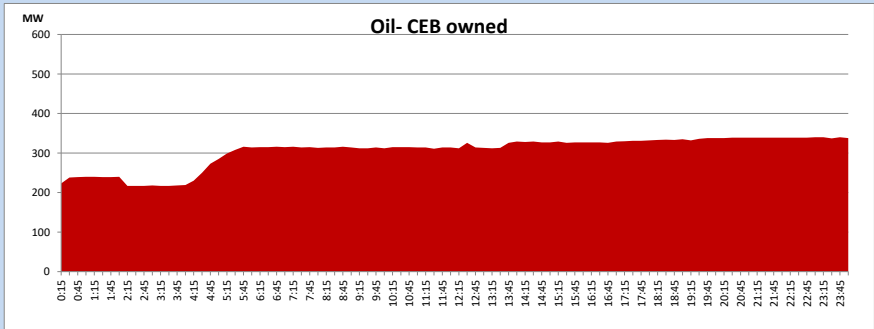
Coal Generation during

October 22, 2024



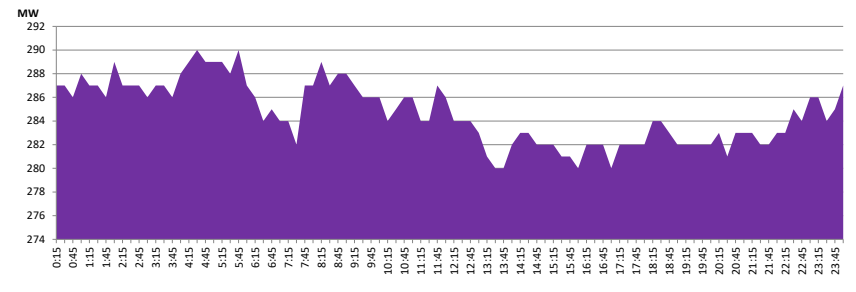
CEB Oil Plant Generation during

October 22, 2024



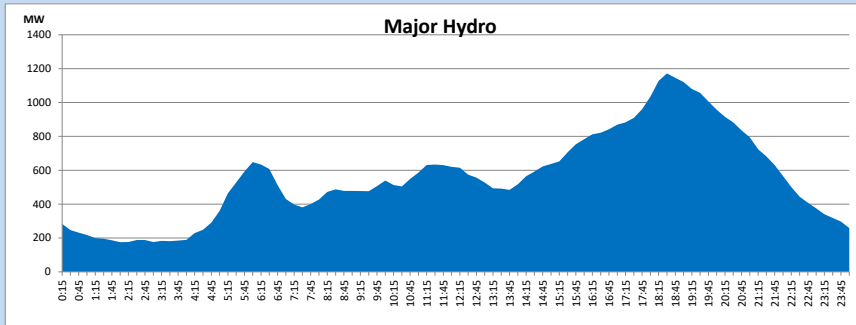
IPP Oil Plant Generation during

October 22, 2024



Major Hydro Generation during

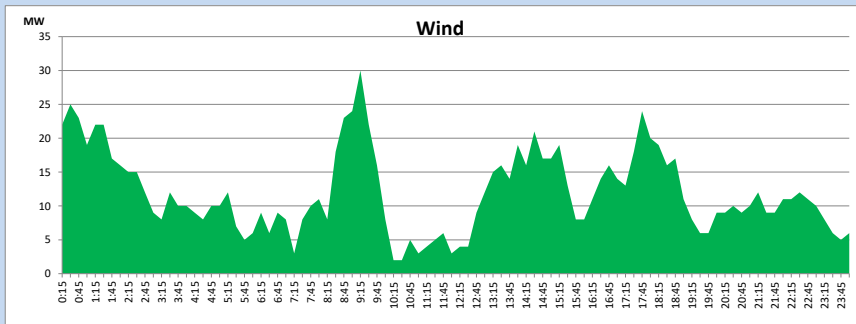
October 22, 2024



Wind Generation during

October 22, 2024

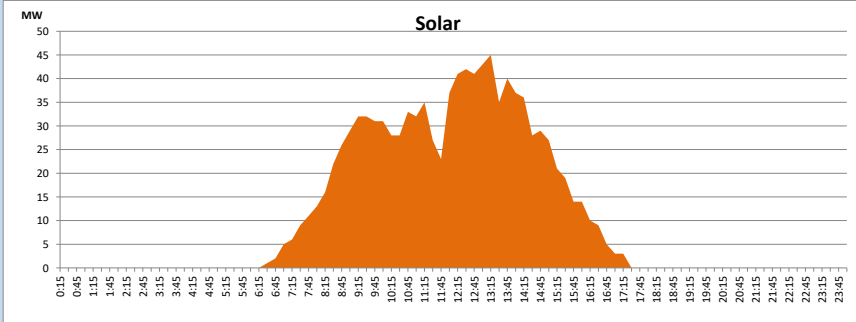
Based on Telemetered Power Stations only



Solar Generation during

October 22, 2024

Based on Telemetered Power Stations only

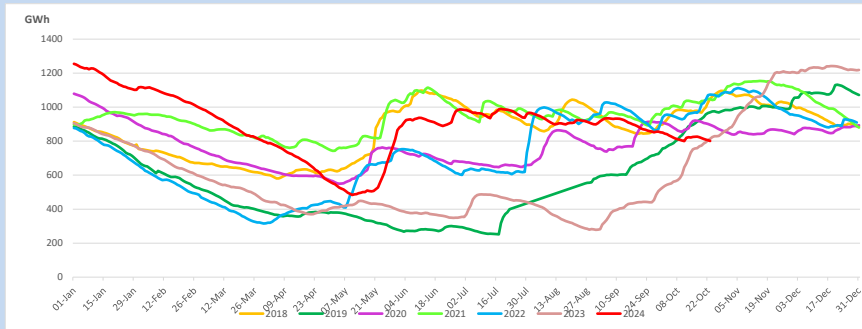


1.14 Major Incidents reported during the day

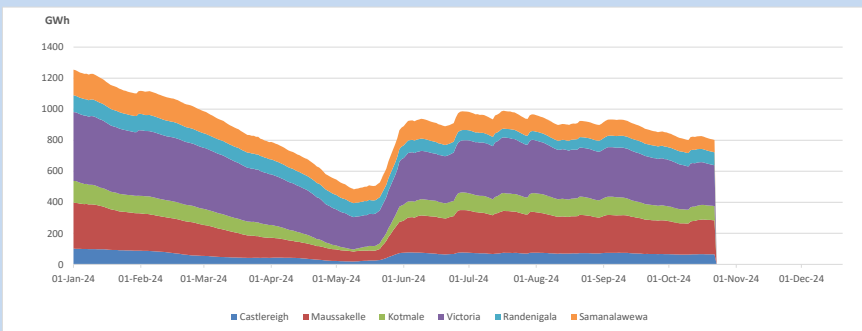
October 22, 2024

- 1) Kerawalapitiya - Sub L 220kV cable which tripped at 04:22hrs, was normalized at 06:51hrs.

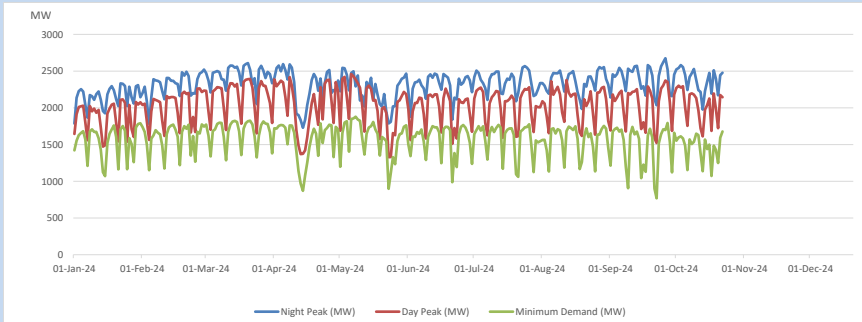
2. Comparison of Total Reservoir Storage Levels with Past Years



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

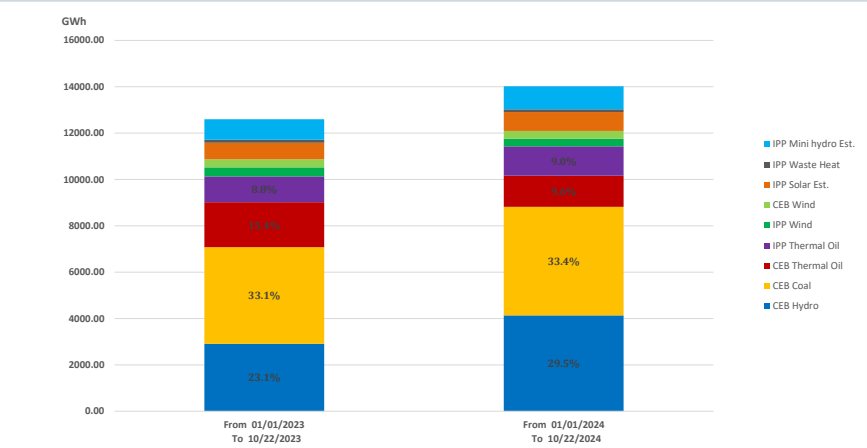


4. Variation of Demand during the current year



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 10/22/2023 12595 GWh
From 01/01/2024 To 10/22/2024 14021 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