

Generation and Reservoirs Statistics

October 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 23, 2024

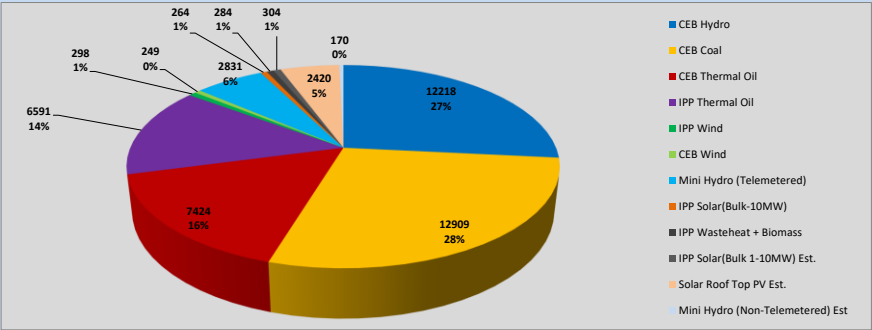


Table 01

	Generation (MWh)
CEB Hydro	12218
CEB Coal	12909
CEB Thermal Oil	7424
IPP Thermal Oil	6591
IPP Wind	298
CEB Wind	249
Mini Hydro (Telemetered)	2831
IPP Solar (Bulk)	264
IPP Waste heat + Biomass	284
Total Generation (Excluding estimated figures)	43,068
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	170
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	45,962

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	296	29.03%
CEB Coal	297	29.16%
CEB Thermal Oil	148	14.53%
IPP Thermal	97	9.55%
IPP Wind	17	1.68%
CEB Wind	21	2.08%
Mini Hydro *	67	6.61%
IPP Solar *	70	6.88%
IPP Waste heat + BMP	5	0.48%
Total	1,019	

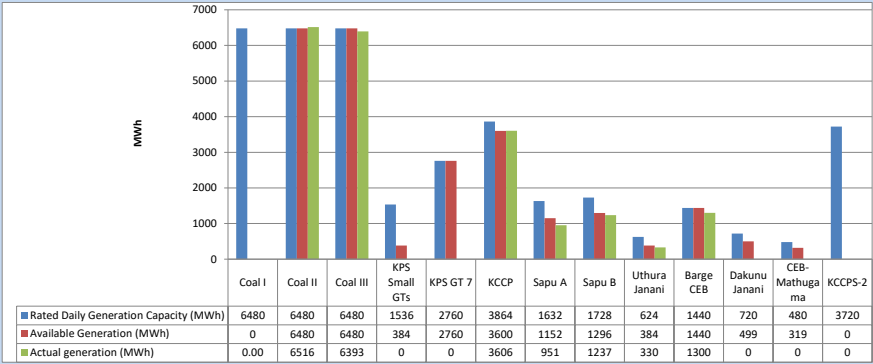
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,149	29.50%
CEB Coal	4,698	33.39%
CEB Thermal Oil	1,349	9.59%
IPP Thermal	1,271	9.04%
IPP Wind	328	2.33%
CEB Wind	339	2.41%
Mini Hydro *	997	7.09%
IPP Solar *	816	5.80%
IPP Waste heat	119	0.85%
Total	14,067	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 23, 2024

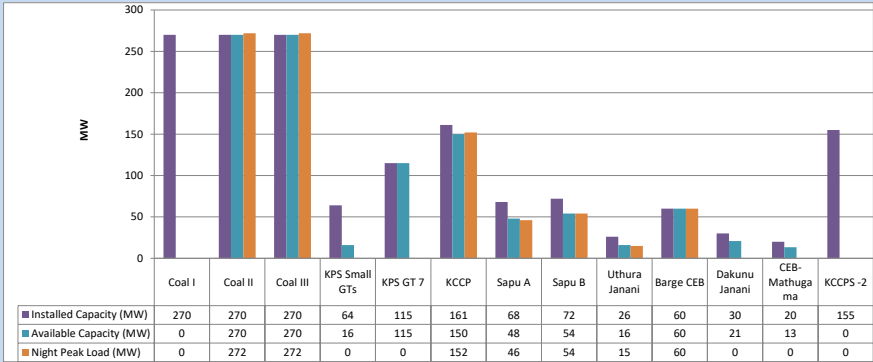


Available Generation is estimated based on plant availability at 6.00am on

October 24, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 23, 2024

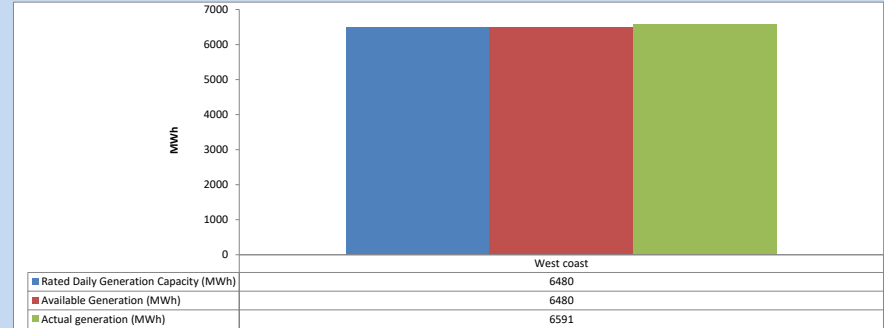


Plant availability is recorded at 6.00 am on

October 24, 2024

1.4 IPP owned Thermal Plant Dispatch

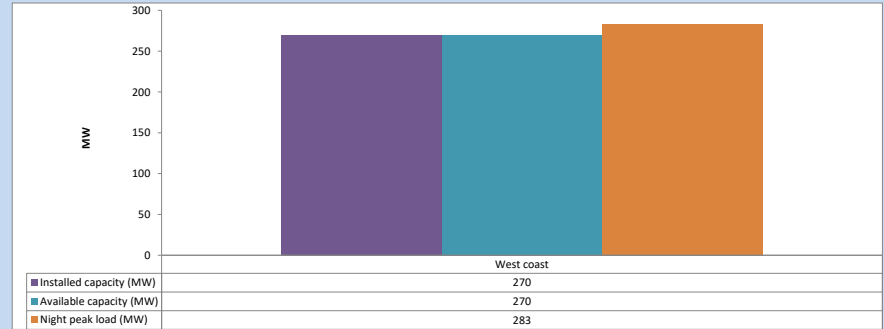
October 23, 2024



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

October 24, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

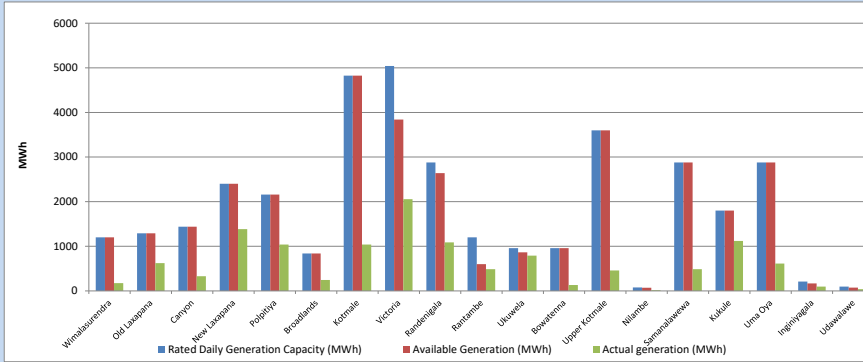


Plant availability is recorded at 6.00 am on

October 24, 2024

1.6 Major Hydro Plant Dispatch

October 23, 2024

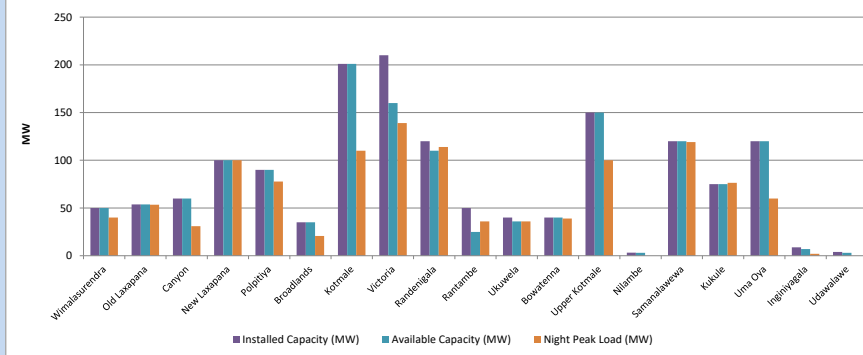


Available Generation is estimated based on plant availability at 6.00am on

October 24, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 23, 2024



Plant availability is recorded at 6.00 am on

October 24, 2024

1.8 Summary of Major Plant performance

October 23, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	40	173
Old Laxapana	54	54	53	624
Canyon	60	60	31	328
New Laxapana	100	100	100	1,384
Polpitiya	90	90	78	1,040
Broadlands	35	35	21	245
Kotmale	201	201	110	1,040
Victoria	210	160	139	2,055
Randenigala	120	110	114	1,088
Rantambe	50	25	36	487
Ukuwela	40	36	36	791
Bowatenna	40	40	39	131
Upper Kotmale	150	150	100	458
Nilambe	3	3	0	15
Samanlalawewa	120	120	119	488
Kukule	75	75	76	1,121
Uma Oya	120	120	60	613
Inginiyagala	9	7	2	98
Udawalawe	4	3	0	40
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	272	6,516
Puttalam Coal III	270	270	272	6,393
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	152	3,606
Sapugaskanda A	68	48	46	951
Sapugaskanda B	72	54	54	1,237
Uthura Janani	26	16	15	330
Barge CEB	60	60	60	1,300
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	283	6,591
Sobadhanavi	220	0	0	0
Total	3,602	2,954	2,438	43,069

Note-

Plant availability is the availability recorded at 6 am on

October 24, 2024

1.9 Contribution to the Night Peak in MW

October 23, 2024

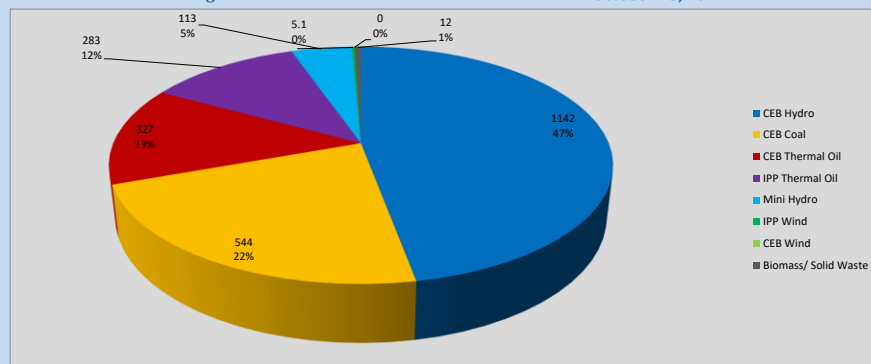


Table 05

CEB Hydro	1142	MW
CEB Coal	544	MW
CEB Thermal Oil	327	MW
IPP Thermal Oil	283	MW
Mini Hydro (Telemetered)	113	MW
IPP Wind	5.1	MW
CEB Wind	0	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

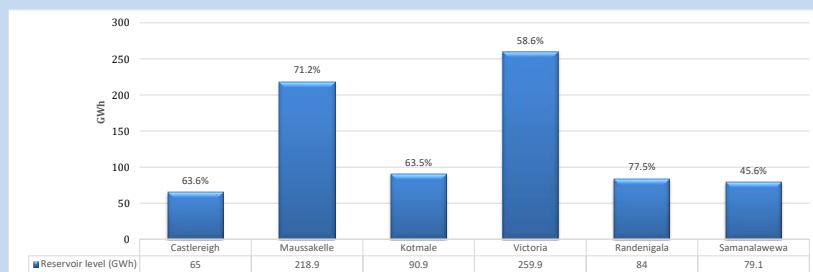
Table 06

Night Peak*	2,426	MW
Day Peak Maximum Demand	2,174	MW
Day Peak Minimum Demand	1,641	MW
Off Peak Minimum Demand	1,376	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 24, 2024



Total Reservoir Level
797.8 GWh
% of Total capacity
62.4%

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

October 23, 2024

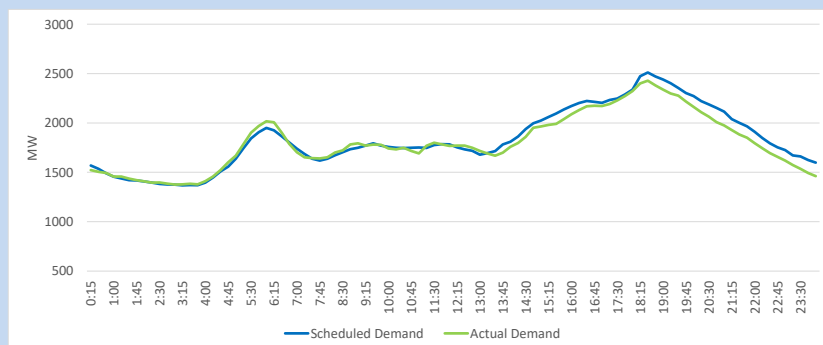
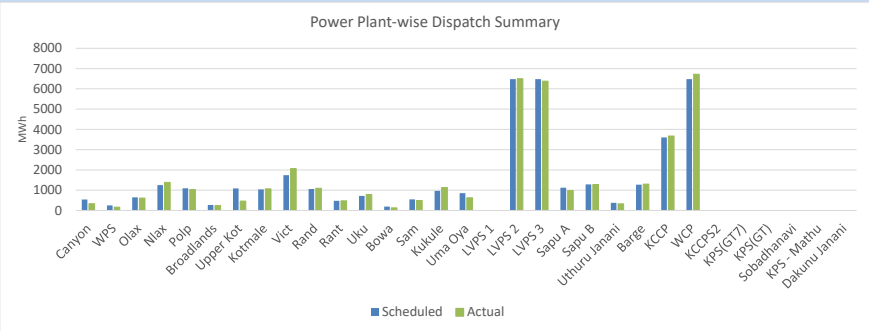


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,742	12,100	(642)
CEB Coal	12,960	12,882	(79)
CEB Thermal Oil	7,652	7,568	(84)
IPP Thermal Oil	6,480	6,719	239
NCRE (Telemetered)	4,148	3,955	(193)
Total	43,982	43,223	(759)

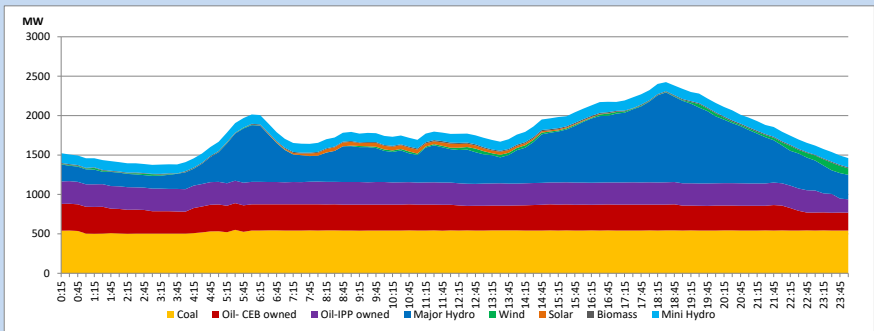
1.12 Power Plant-wise Dispatch Summary

October 23, 2024



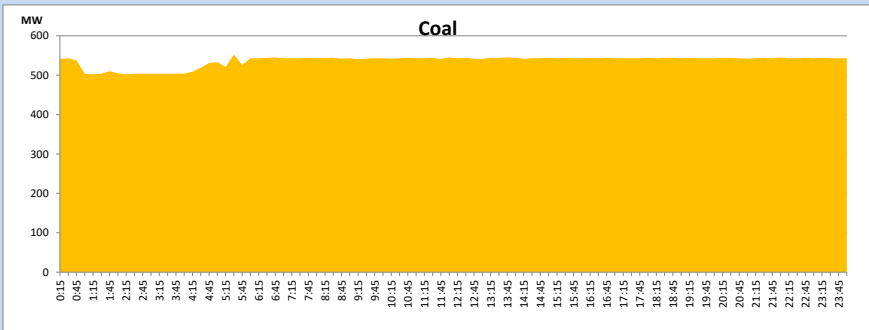
1.13 Daily Load Curve

October 23, 2024



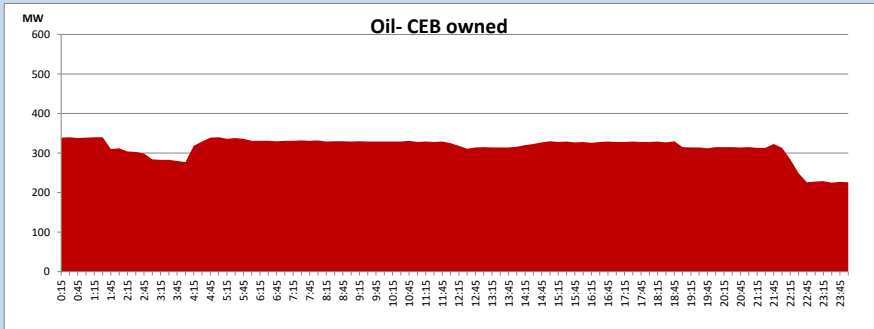
Coal Generation during

October 23, 2024



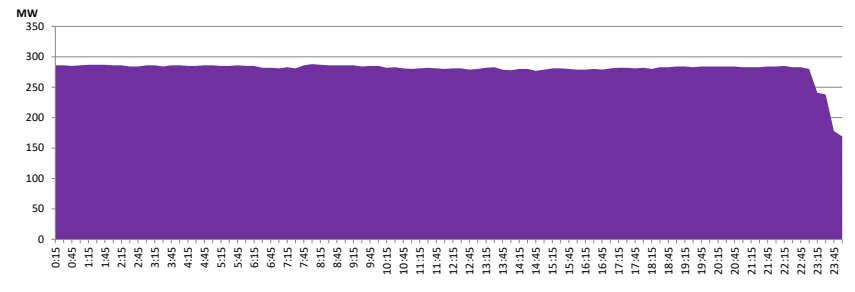
CEB Oil Plant Generation during

October 23, 2024



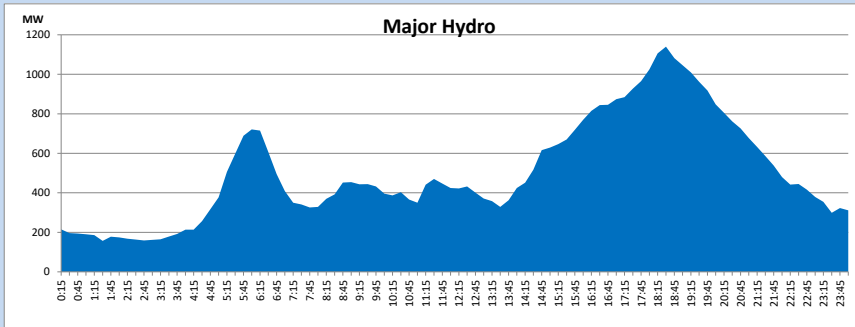
IPP Oil Plant Generation during

October 23, 2024



Major Hydro Generation during

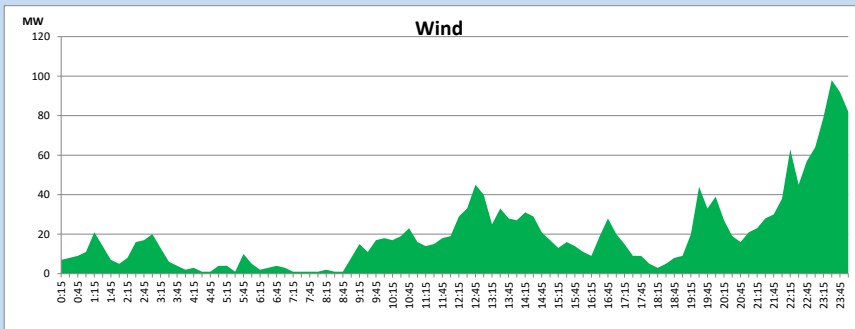
October 23, 2024



Wind Generation during

October 23, 2024

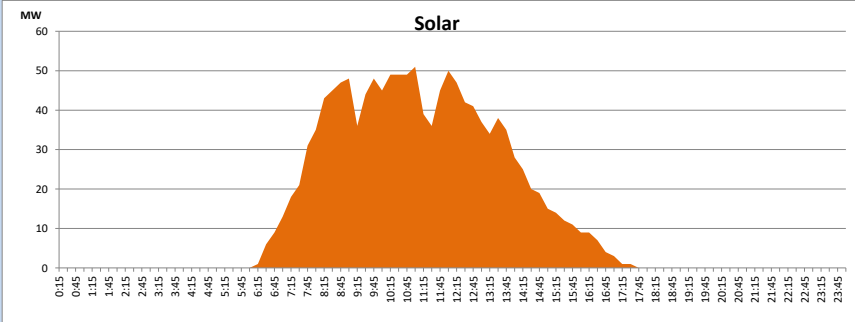
Based on Telemetered Power Stations only



Solar Generation during

October 23, 2024

Based on Telemetered Power Stations only

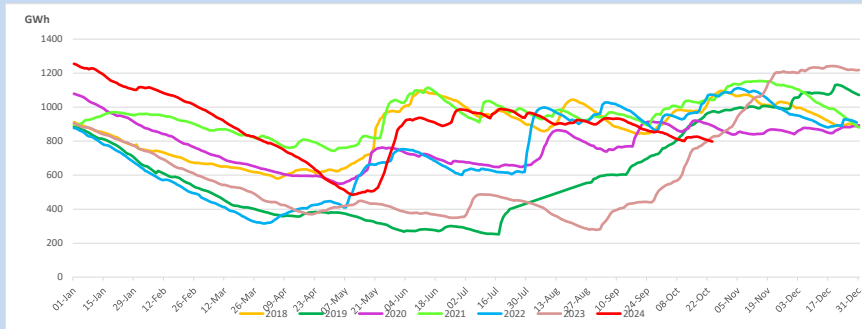


1.14 Major Incidents reported during the day

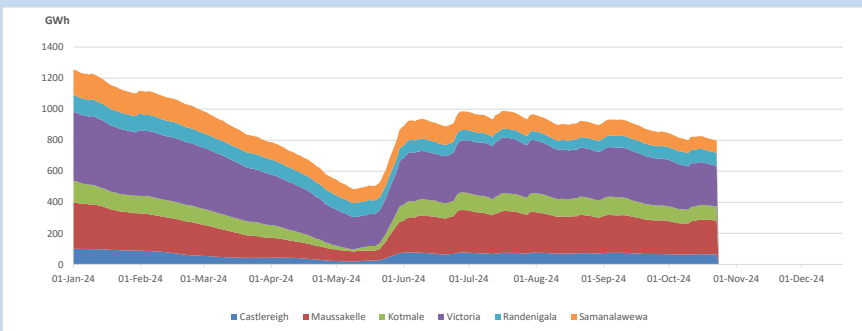
October 23, 2024

- 1). Matara - New Galle cct 01 and 02 tripped and A/R from both ends at 18:28hrs due to the operation of Differential Protection.
- 2). New Galle - Deniyaya and New Galle - Blangoda 132kV ccts tripped and A/R from all ends at 21:34hrs due to the operation of distance protection.
- 3). Embilipitiya - Matara 132kV cct tripped and A/R from both sides at 05:12hrs due to the operation of distance protection.(24.10.2024)

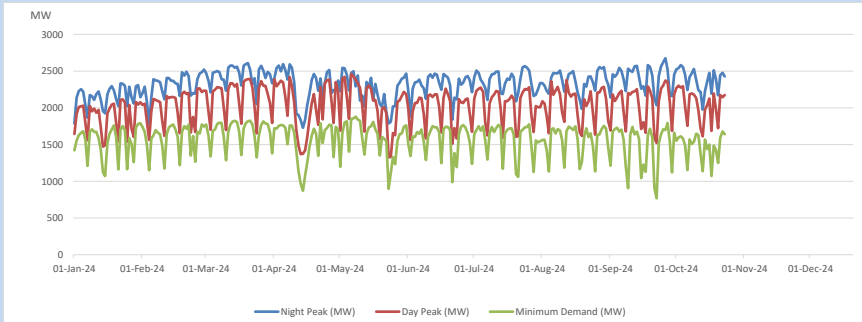
2. Comparison of Total Reservoir Storage Levels with Past Years



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

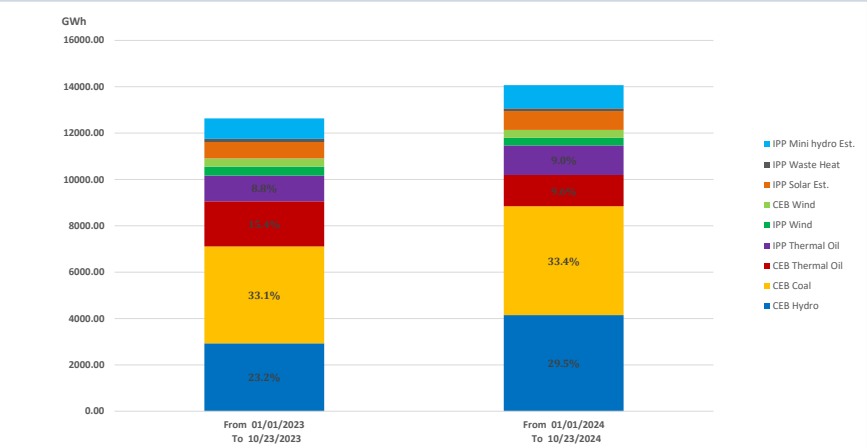


4. Variation of Demand during the current year



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 10/23/2023 12634 GWh
From 01/01/2024 To 10/23/2024 14067 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