

Generation and Reservoirs Statistics

November 7, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 7, 2024

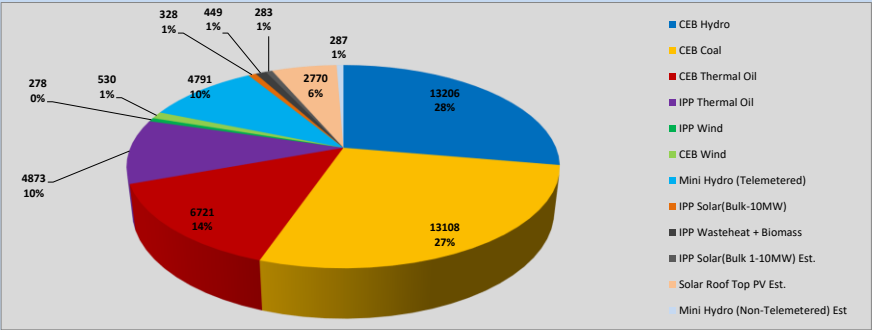


Table 01

	Generation (MWh)
CEB Hydro	13,206
CEB Coal	13,108
CEB Thermal Oil	6,721
IPP Thermal Oil	4,873
IPP Wind	278
CEB Wind	530
Mini Hydro (Telemetered)	4,791
IPP Solar (Bulk)	328
IPP Waste heat + Biomass	449
Total Generation (Excluding estimated figures)	44,284
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	287
* Estimated IPP Solar PV (Bulk 1-10MW)	283
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	47,624

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	105	33.76%
CEB Coal	89	28.55%
CEB Thermal Oil	30	9.66%
IPP Thermal	18	5.89%
IPP Wind	1	0.36%
CEB Wind	1	0.42%
Mini Hydro *	40	12.84%
IPP Solar *	24	7.68%
IPP Waste heat + BMP	3	0.84%
Total	310	

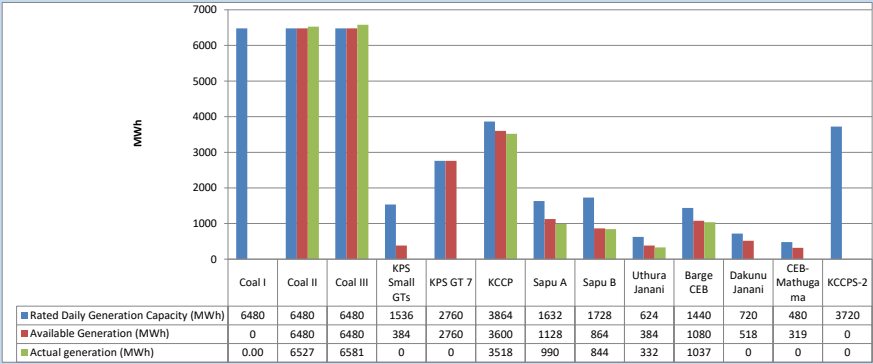
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,345	30.56%
CEB Coal	4,886	34.37%
CEB Thermal Oil	1,429	10.05%
IPP Thermal	716	5.04%
IPP Wind	378	2.66%
CEB Wind	349	2.45%
Mini Hydro *	1,109	7.80%
IPP Solar *	876	6.16%
IPP Waste heat	130	0.91%
Total	14,218	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 7, 2024

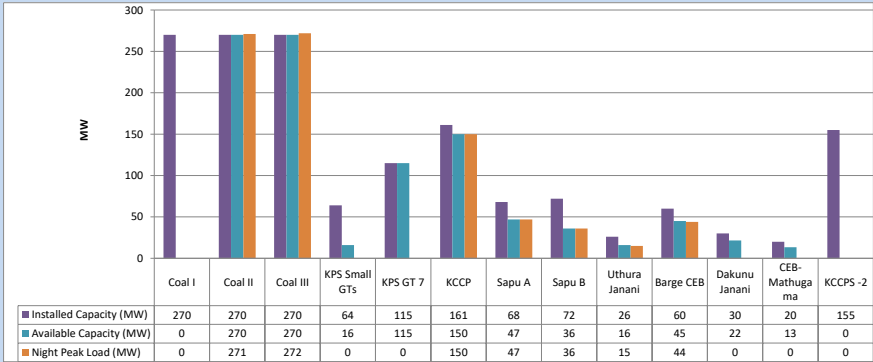


Available Generation is estimated based on plant availability at 6.00am on

November 8, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 7, 2024

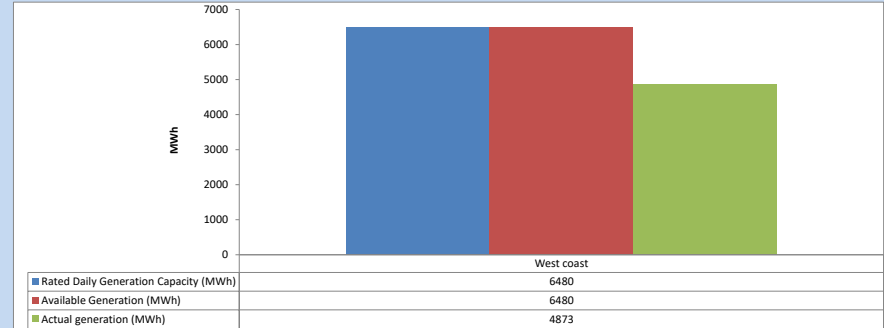


Plant availability is recorded at 6.00 am on

November 8, 2024

1.4 IPP owned Thermal Plant Dispatch

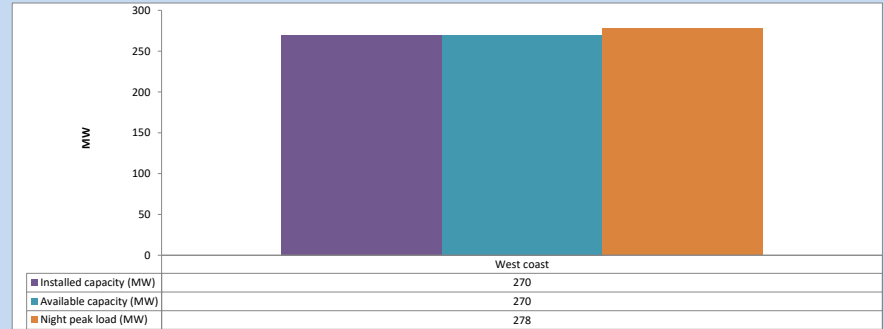
November 7, 2024



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

November 8, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

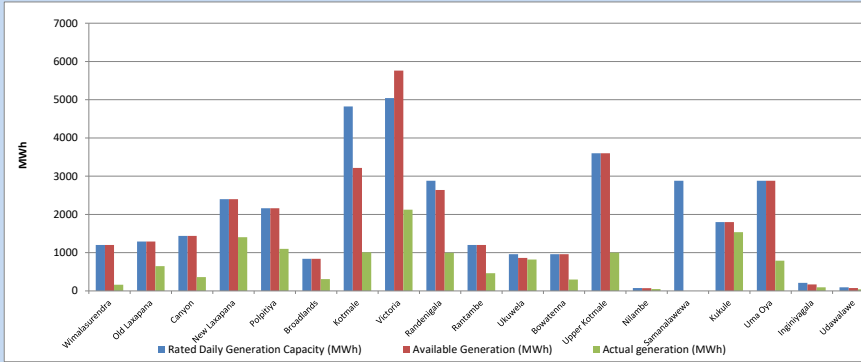


Plant availability is recorded at 6.00 am on

November 8, 2024

1.6 Major Hydro Plant Dispatch

November 7, 2024

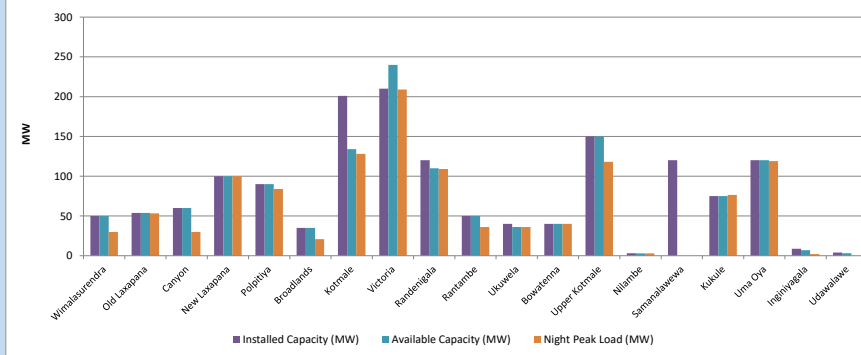


Available Generation is estimated based on plant availability at 6.00am on

November 8, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 7, 2024



Plant availability is recorded at 6.00 am on

November 8, 2024

1.8 Summary of Major Plant performance

November 7, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	162
Old Laxapana	54	54	53	647
Canyon	60	60	30	362
New Laxapana	100	100	100	1,404
Polpitiya	90	90	84	1,100
Broadlands	35	35	21	308
Kotmale	201	134	128	1,010
Victoria	210	240	209	2,123
Randenigala	120	110	109	998
Rantambe	50	50	36	465
Ukuwela	40	36	36	821
Bowatenna	40	40	40	296
Upper Kotmale	150	150	118	1,001
Nilambe	3	3	3	48
Samanalawewa	120	0	0	0
Kukule	75	75	76	1,535
Uma Oya	120	120	119	792
Inginigala	9	7	2	95
Udawalawe	4	3	0	40
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,527
Puttalam Coal III	270	270	272	6,581
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,518
Sapugaskanda A	68	47	47	990
Sapugaskanda B	72	36	36	844
Uthura Janani	26	16	15	332
Barge CEB	60	45	44	1,037
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	278	4,873
Sobadhanavi	220	0	0	0
Total	3,602	2,839	2,565	44,285

Note-

Plant availability is the availability recorded at 6 am on

November 8, 2024

1.9 Contribution to the Night Peak in MW

November 7, 2024

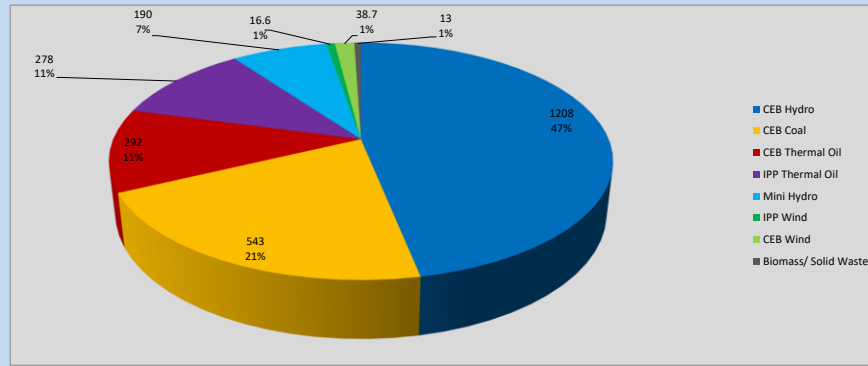


Table 05

CEB Hydro	1208	MW
CEB Coal	543	MW
CEB Thermal Oil	292	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	190	MW
IPP Wind	16.6	MW
CEB Wind	38.7	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

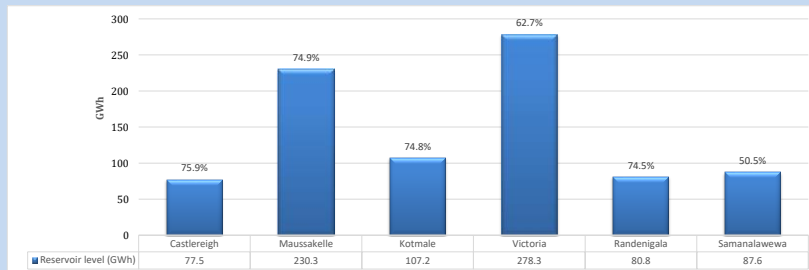
Table 06

Night Peak*	2,579	MW
Day Peak Maximum Demand	2,257	MW
Day Peak Minimum Demand	1,613	MW
Off Peak Minimum Demand	1,447	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 8, 2024



Total Reservoir Level
% of Total capacity

861.7 GWh
67.4%

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

November 7, 2024

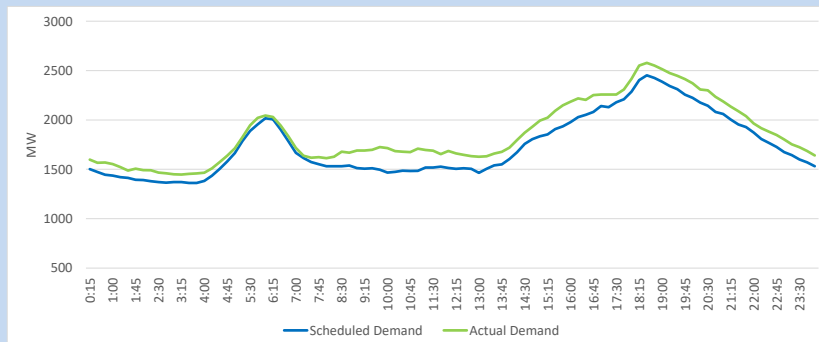
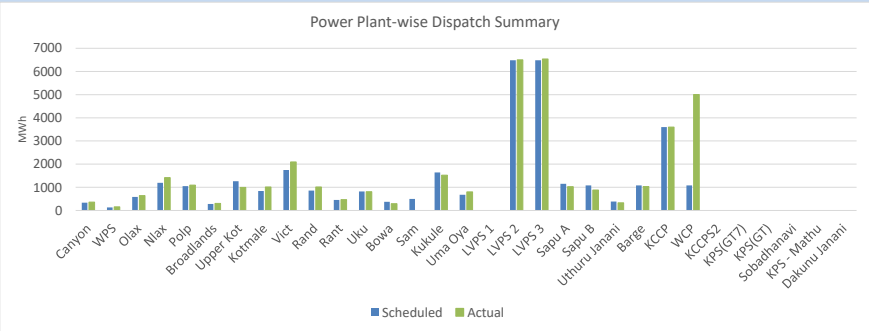


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,749	12,995	245
CEB Coal	12,960	13,038	78
CEB Thermal Oil	7,294	6,871	(423)
IPP Thermal Oil	1,083	5,005	3,922
NCRE (Telemetered)	7,509	6,613	(897)
Total	41,595	44,521	2,925

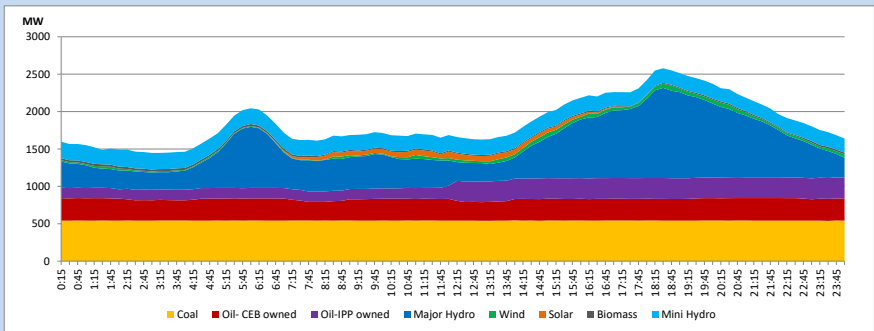
1.12 Power Plant-wise Dispatch Summary

November 7, 2024



1.13 Daily Load Curve

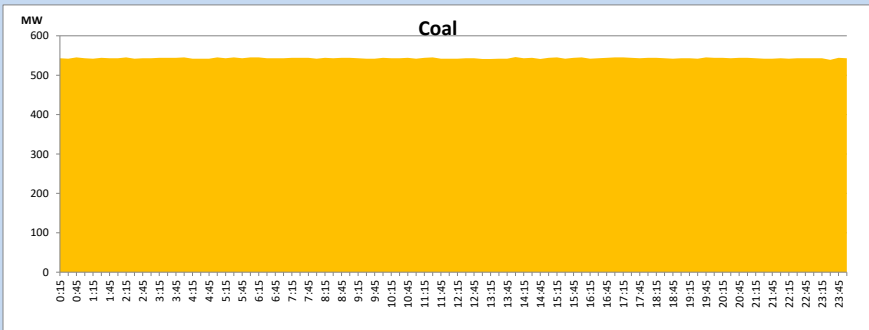
November 7, 2024



Solar and wind data is based on Telemetered Power Stations only

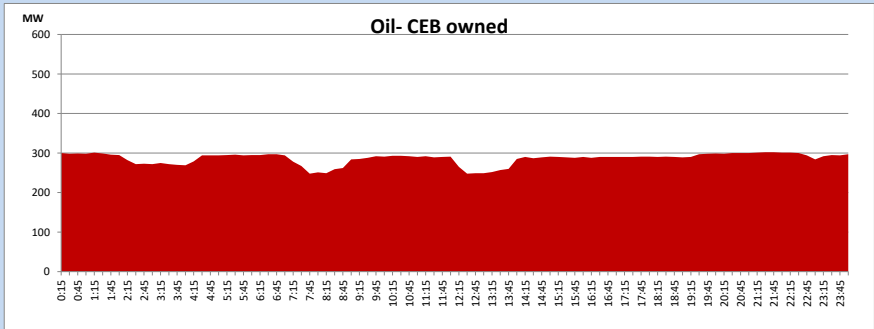
Coal Generation during

November 7, 2024



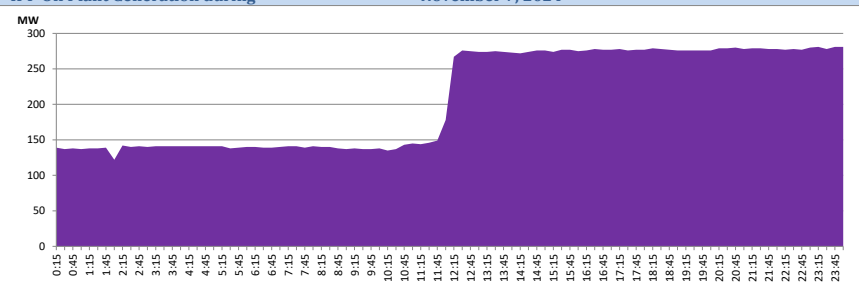
CEB Oil Plant Generation during

November 7, 2024



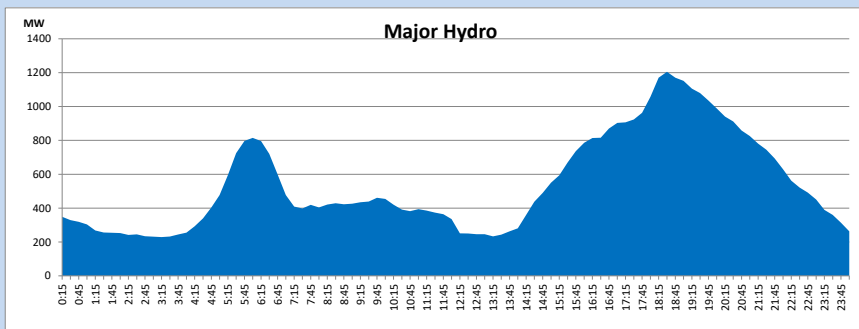
IPP Oil Plant Generation during

November 7, 2024



Major Hydro Generation during

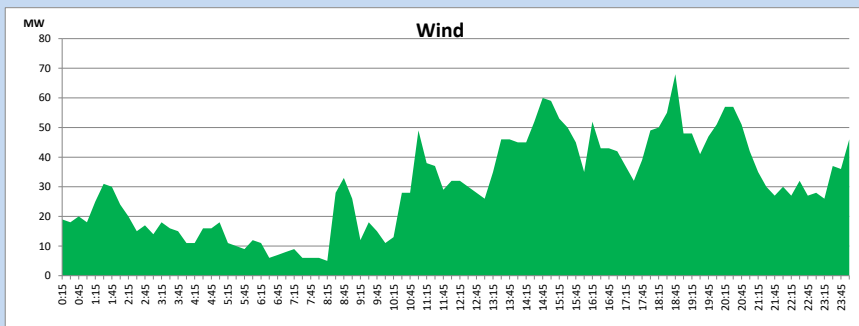
November 7, 2024



Wind Generation during

November 7, 2024

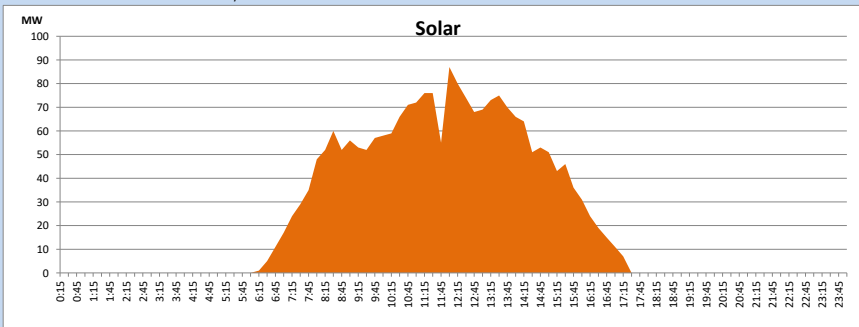
Based on Telemetered Power Stations only



Solar Generation during

November 7, 2024

Based on Telemetered Power Stations only

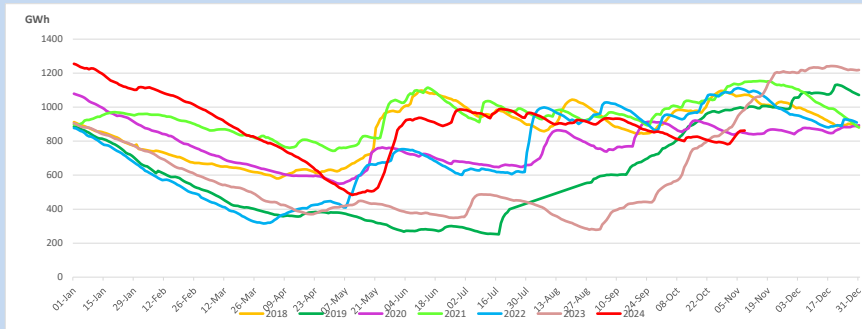


1.14 Major Incidents reported during the day

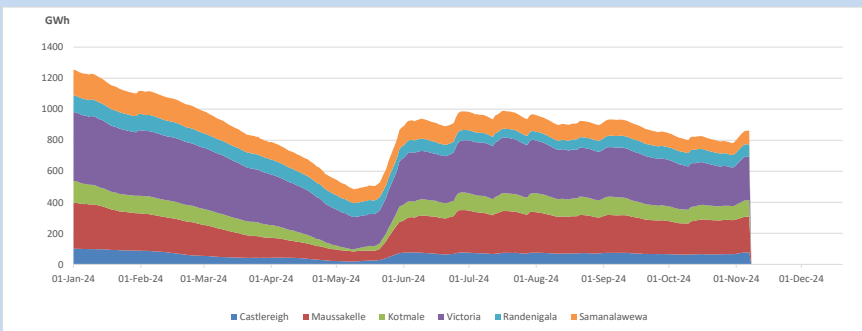
November 7, 2024

- 1) Kiribathkumbura - Polpitiya 132kV cct tripped from both ends at 11:26hrs due to the operation of differential and SOTF protection. The cct was normalized at 14:40hrs.
- 2) Old Kerawalapitiya - New Kerawalapitiya 220kV interconnection 01 cct was loaded for the first time at 12:51hrs.
- 3) Old Habarana - Ukuwela 132kV cct tripped from Old Habarana end at 16:21hrs without any indications. At the same time Ukuwela Unit 01 tripped by rejecting 17.7MW from the system and resulting Naula, Ragala and Pallekele GSS to be dead. Old Habarana - Ukuwela 132kV cct was normalized at 16:31hrs and all affected feeders were normalized by 16:58hrs.

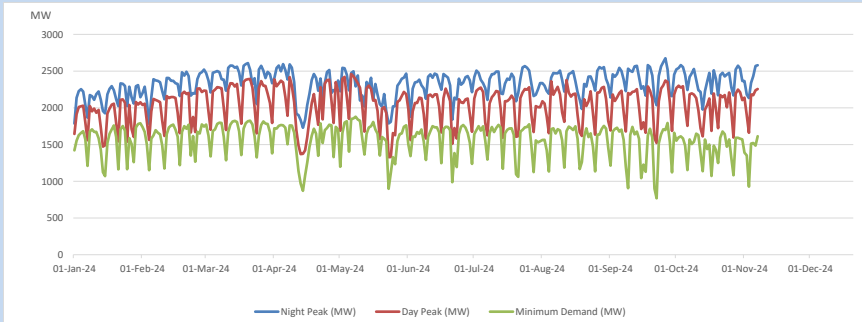
2. Comparison of Total Reservoir Storage Levels with Past Years



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

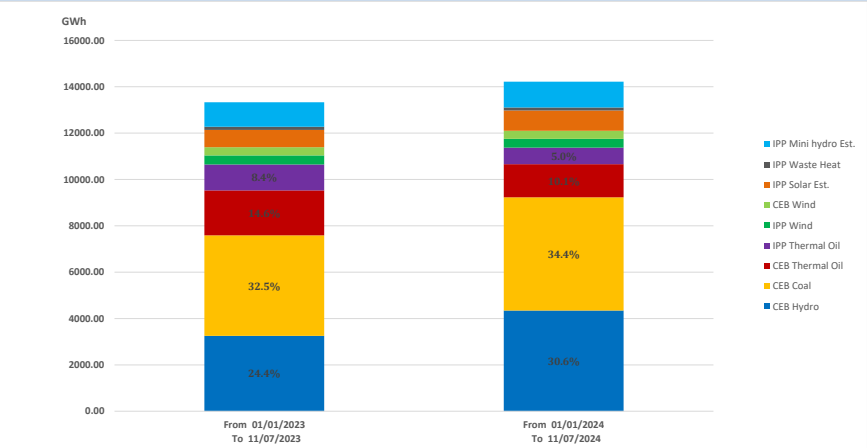


4. Variation of Demand during the current year



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 11/07/2023 13330 GWh
From 01/01/2024 To 11/07/2024 14218 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)	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