

Generation and Reservoirs Statistics

November 3, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 3, 2024

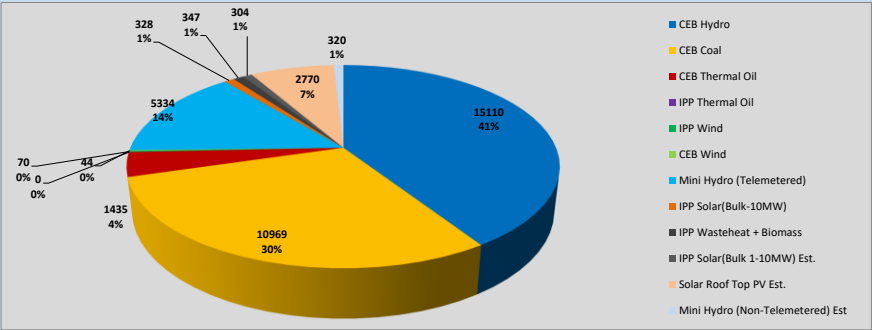


Table 01

	Generation (MWh)
CEB Hydro	15,110
CEB Coal	10,969
CEB Thermal Oil	1,435
IPP Thermal Oil	-
IPP Wind	70
CEB Wind	44
Mini Hydro (Telemetered)	5,334
IPP Solar (Bulk)	328
IPP Waste heat + Biomass	347
Total Generation (Excluding estimated figures)	33,637
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	320
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	37,031

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	44	35.78%
CEB Coal	36	29.30%
CEB Thermal Oil	11	9.21%
IPP Thermal	5	4.24%
IPP Wind	0	0.21%
CEB Wind	0	0.15%
Mini Hydro *	15	12.11%
IPP Solar *	10	8.18%
IPP Waste heat + BMP	1	0.82%
Total	124	

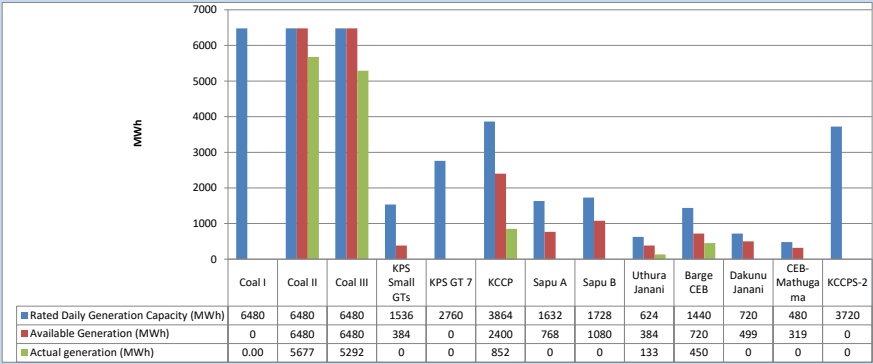
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,285	30.54%
CEB Coal	4,834	34.45%
CEB Thermal Oil	1,410	10.05%
IPP Thermal	703	5.01%
IPP Wind	377	2.68%
CEB Wind	348	2.48%
Mini Hydro *	1,085	7.73%
IPP Solar *	862	6.14%
IPP Waste heat	128	0.92%
Total	14,031	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 3, 2024

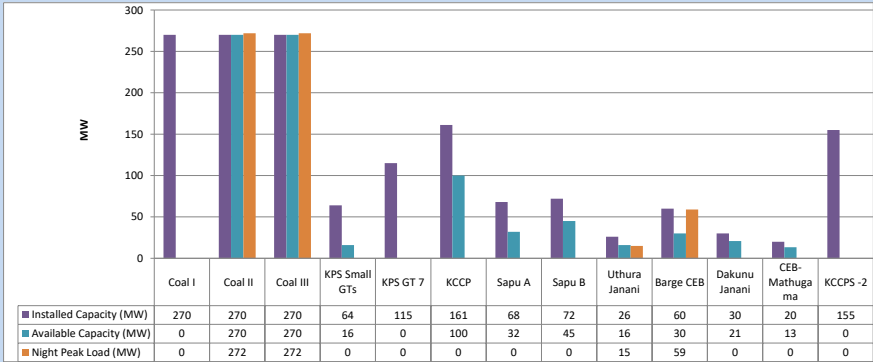


Available Generation is estimated based on plant availability at 6.00am on

November 4, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 3, 2024

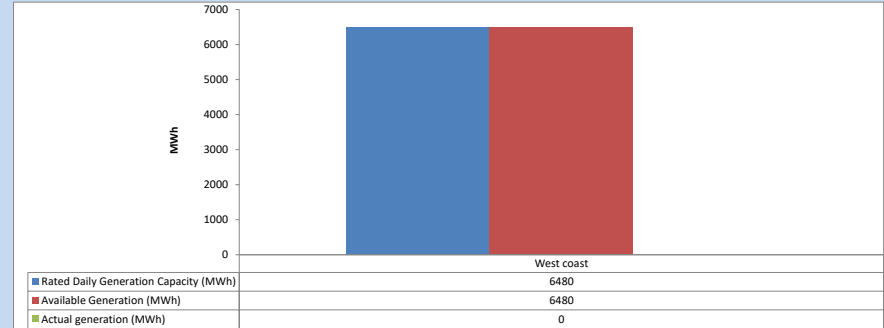


Plant availability is recorded at 6.00 am on

November 4, 2024

1.4 IPP owned Thermal Plant Dispatch

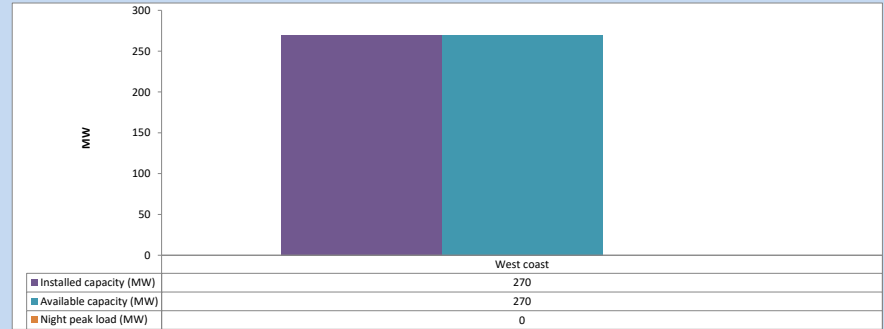
November 3, 2024



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

November 4, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

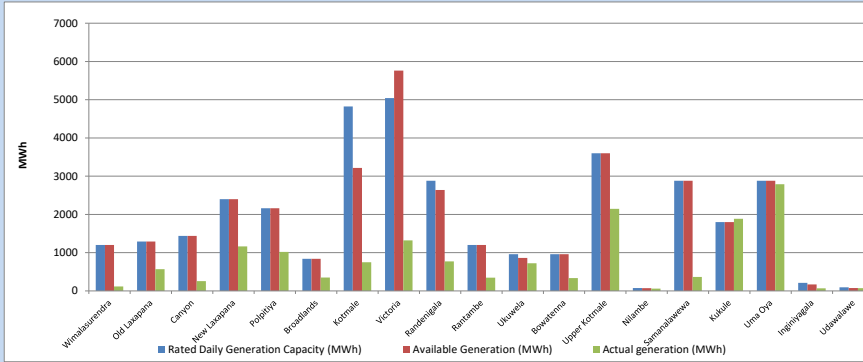


Plant availability is recorded at 6.00 am on

November 4, 2024

1.6 Major Hydro Plant Dispatch

November 3, 2024

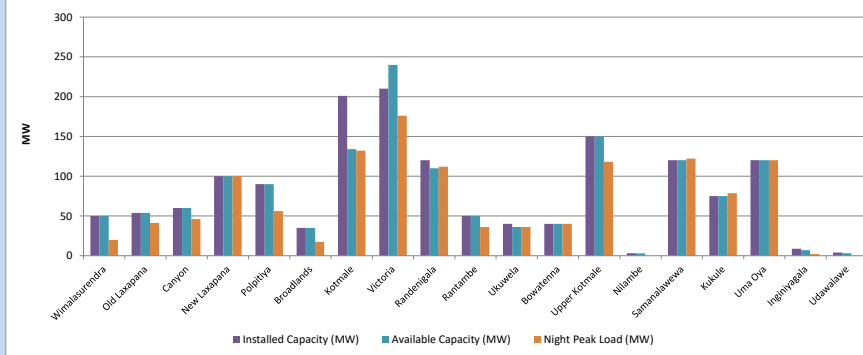


Available Generation is estimated based on plant availability at 6.00am on

November 4, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 3, 2024



Plant availability is recorded at 6.00 am on

November 4, 2024

1.8 Summary of Major Plant performance

November 3, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	118
Old Laxapana	54	54	41	569
Canyon	60	60	46	255
New Laxapana	100	100	100	1,163
Polpitiya	90	90	56	1,020
Broadlands	35	35	18	351
Kotmale	201	134	132	750
Victoria	210	240	176	1,321
Randenigala	120	110	112	771
Rantambe	50	50	36	348
Ukuwela	40	36	36	723
Bowatenna	40	40	40	336
Upper Kotmale	150	150	118	2,145
Nilambe	3	3	0	60
Samanalawewa	120	120	122	364
Kukule	75	75	79	1,887
Uma Oya	120	120	120	2,789
Inginigala	9	7	2	69
Udawalawe	4	3	0	70
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	272	5,677
Puttalam Coal III	270	270	272	5,292
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	100	0	852
Sapugaskanda A	68	32	0	0
Sapugaskanda B	72	45	0	0
Uthura Janani	26	16	15	133
Barge CEB	60	30	59	450
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	2,772	2,119	33,636

Note-

Plant availability is the availability recorded at 6 am on

November 4, 2024

1.9 Contribution to the Night Peak in MW

November 3, 2024

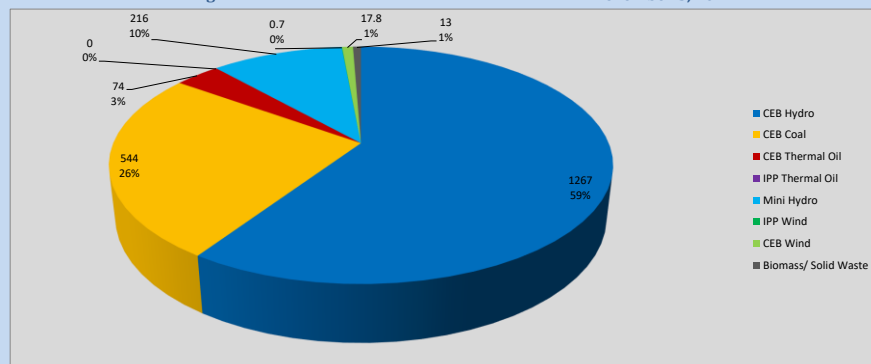


Table 05

CEB Hydro	1267	MW
CEB Coal	544	MW
CEB Thermal Oil	74	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	216	MW
IPP Wind	0.7	MW
CEB Wind	17.8	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

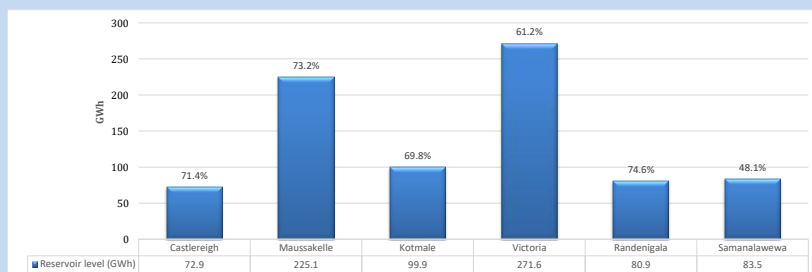
Table 06

Night Peak*	2,133	MW
Day Peak Maximum Demand	1,661	MW
Day Peak Minimum Demand	928	MW
Off Peak Minimum Demand	1,250	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 4, 2024



Total Reservoir Level
% of Total capacity

833.9 GWh
65.2%

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

November 3, 2024

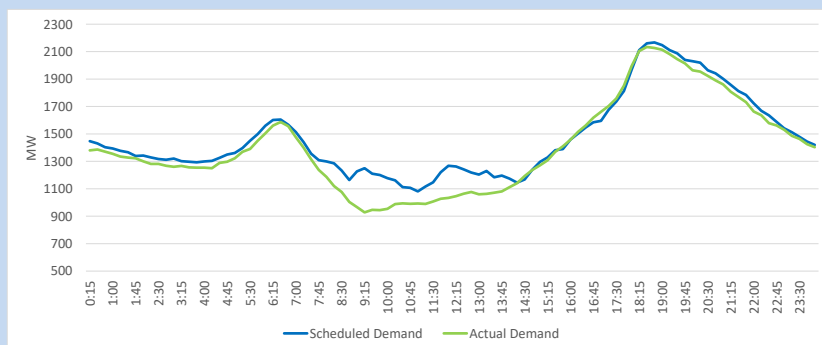
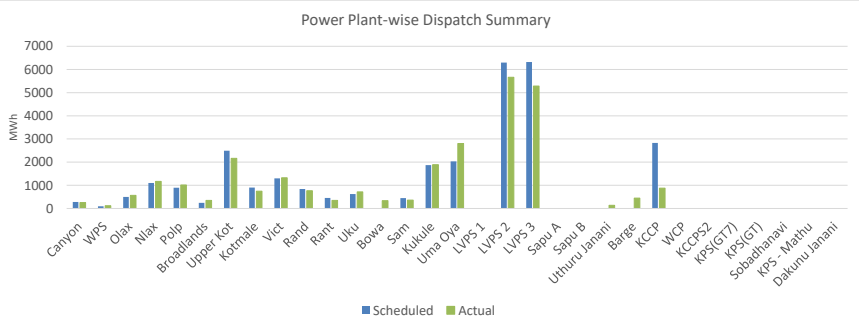


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,080	14,931	851
CEB Coal	12,617	10,951	(1,666)
CEB Thermal Oil	2,827	1,460	(1,367)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	5,763	6,406	643
Total	35,287	33,748	(1,539)

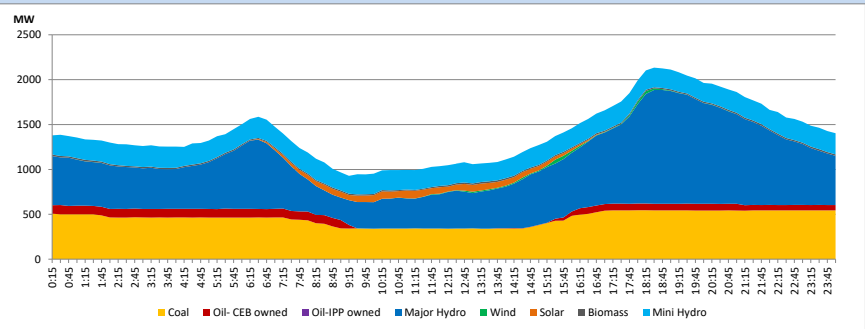
1.12 Power Plant-wise Dispatch Summary

November 3, 2024



1.13 Daily Load Curve

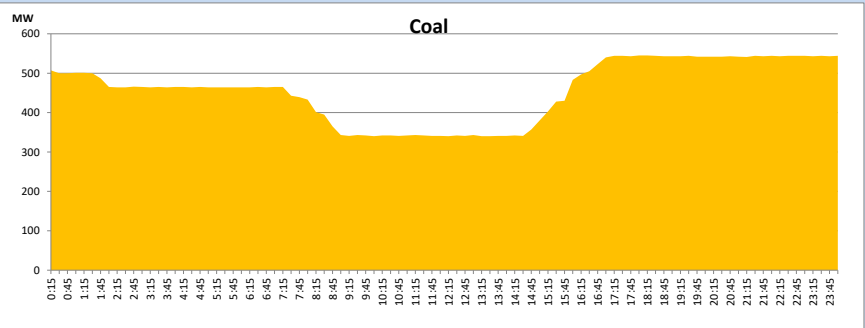
November 3, 2024



Solar and wind data is based on Telemetered Power Stations only

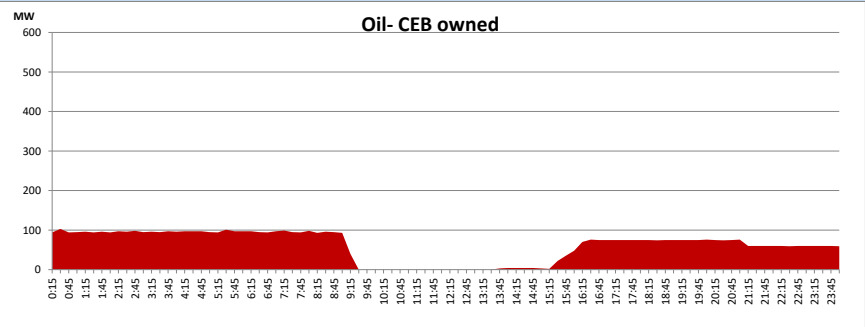
Coal Generation during

November 3, 2024



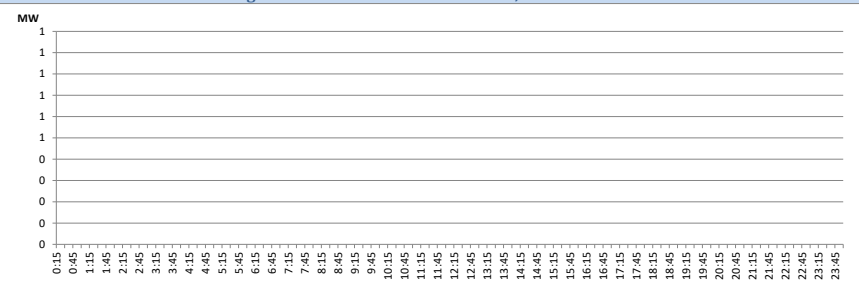
CEB Oil Plant Generation during

November 3, 2024



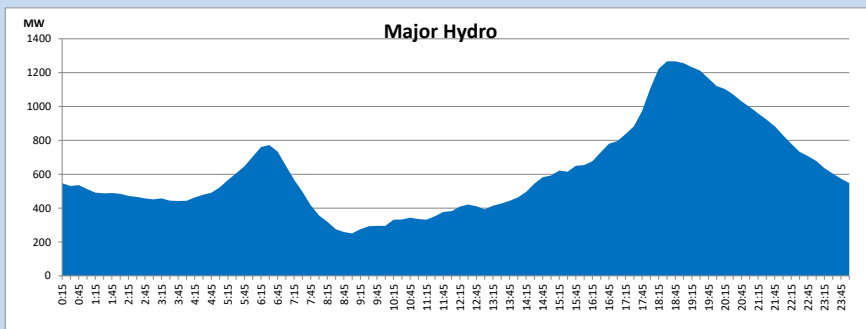
IPP Oil Plant Generation during

November 3, 2024



Major Hydro Generation during

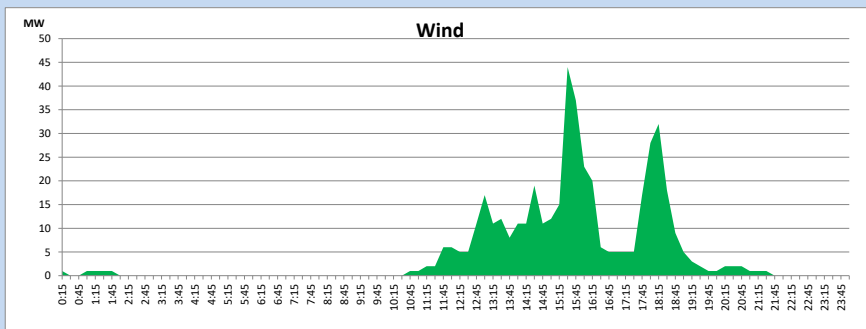
November 3, 2024



Wind Generation during

November 3, 2024

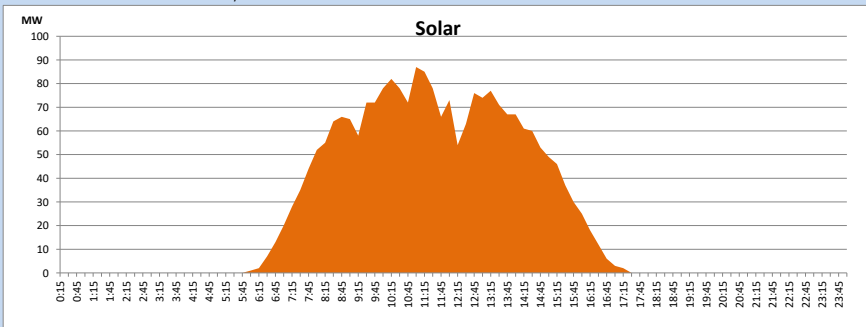
Based on Telemetered Power Stations only



Solar Generation during

November 3, 2024

Based on Telemetered Power Stations only

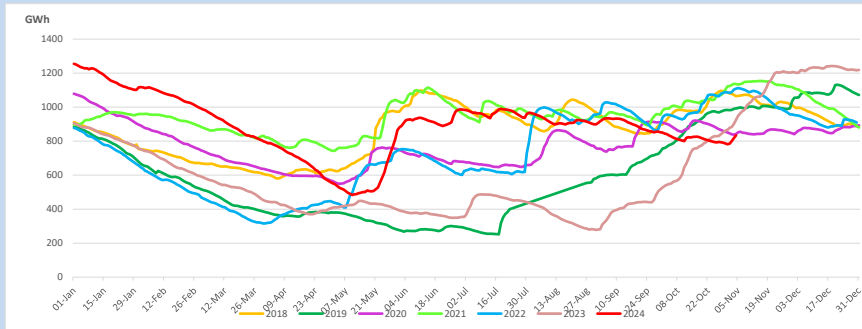


1.14 Major Incidents reported during the day

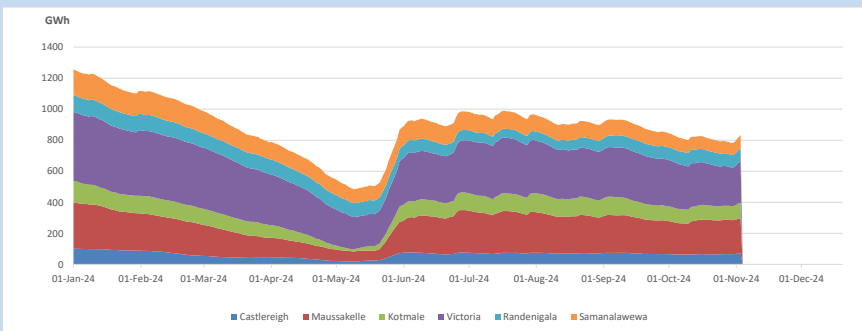
November 3, 2024

- 1) Pannipitiya GSS 220/132kV T/F 01 tripped from both ends at 08:39hrs with an indication of mechanical trip. The T/F was normalized at 13:14hrs.
- 2) Kukule Ganga pond spilling stopped at 09:00hrs and spilling started again at 23:12hrs and continues the present hour.
- 3) Uma Oya Dyrabaa pond spilling started at 23:50hrs and continues the present hour.

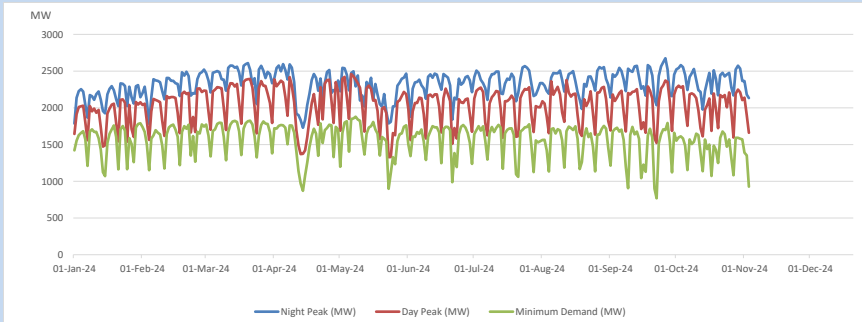
2. Comparison of Total Reservoir Storage Levels with Past Years



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

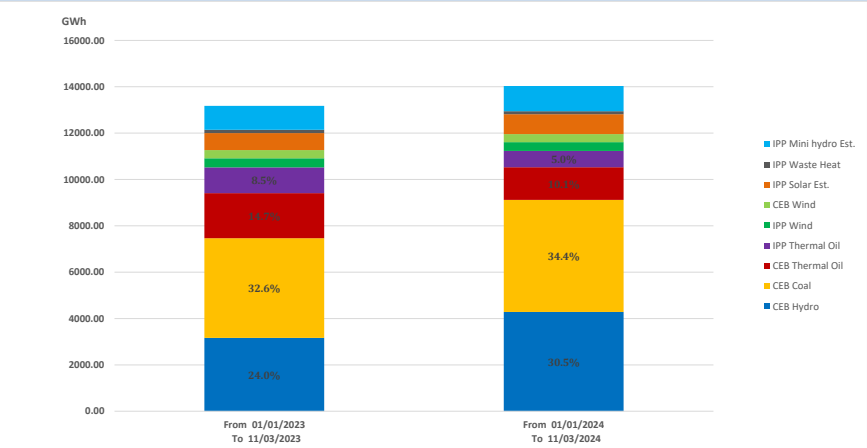


4. Variation of Demand during the current year



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 11/03/2023 13178 GWh
From 01/01/2024 To 11/03/2024 14031 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