

Generation and Reservoirs Statistics

November 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 2, 2024

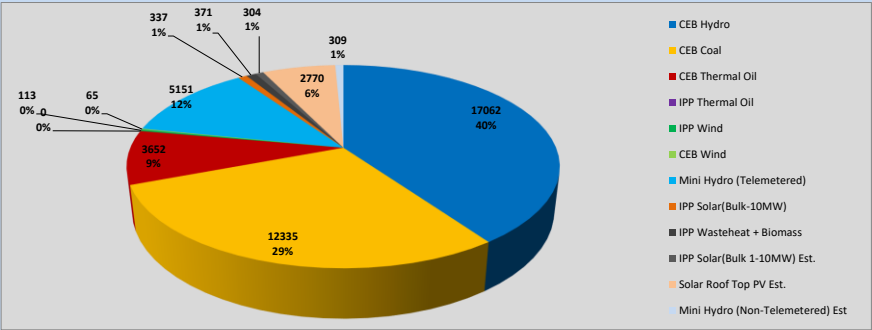


Table 01

	Generation (MWh)
CEB Hydro	17,062
CEB Coal	12,335
CEB Thermal Oil	3,652
IPP Thermal Oil	-
IPP Wind	113
CEB Wind	65
Mini Hydro (Telemetered)	5,151
IPP Solar (Bulk)	337
IPP Waste heat + Biomass	371
Total Generation (Excluding estimated figures)	39,086
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	309
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	42,469

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	29	33.63%
CEB Coal	25	29.16%
CEB Thermal Oil	10	11.50%
IPP Thermal	5	6.05%
IPP Wind	0	0.22%
CEB Wind	0	0.17%
Mini Hydro *	9	10.77%
IPP Solar *	7	7.75%
IPP Waste heat + BMP	1	0.76%
Total	87	

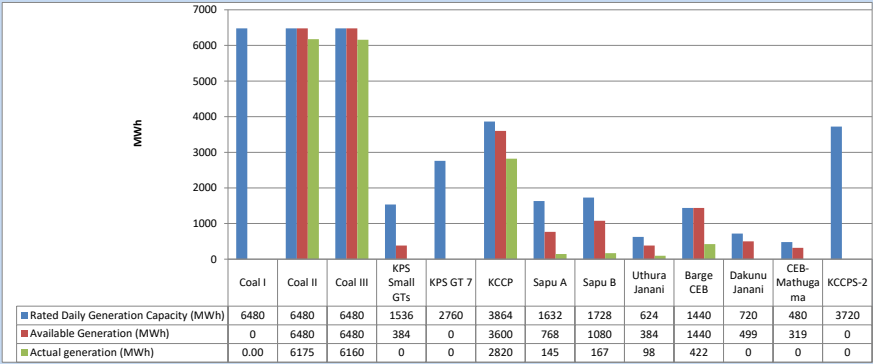
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,269	30.51%
CEB Coal	4,823	34.46%
CEB Thermal Oil	1,409	10.07%
IPP Thermal	703	5.02%
IPP Wind	377	2.69%
CEB Wind	348	2.49%
Mini Hydro *	1,079	7.71%
IPP Solar *	859	6.14%
IPP Waste heat	128	0.92%
Total	13,994	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 2, 2024

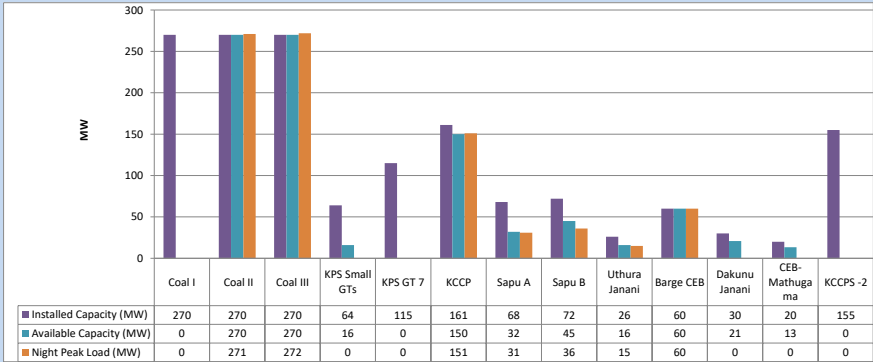


Available Generation is estimated based on plant availability at 6.00am on

November 3, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 2, 2024

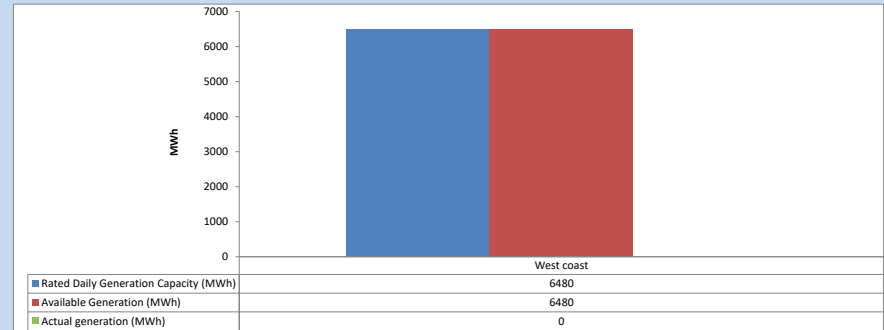


Plant availability is recorded at 6.00 am on

November 3, 2024

1.4 IPP owned Thermal Plant Dispatch

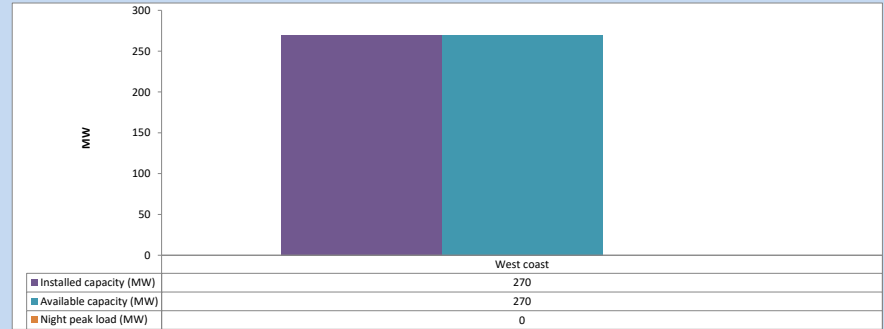
November 2, 2024



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

November 3, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

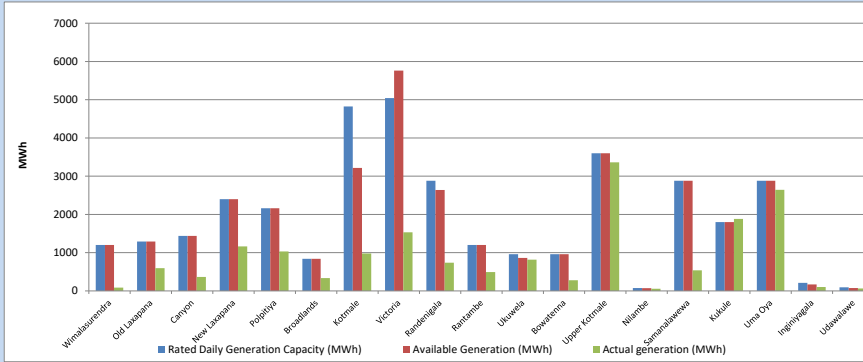


Plant availability is recorded at 6.00 am on

November 3, 2024

1.6 Major Hydro Plant Dispatch

November 2, 2024

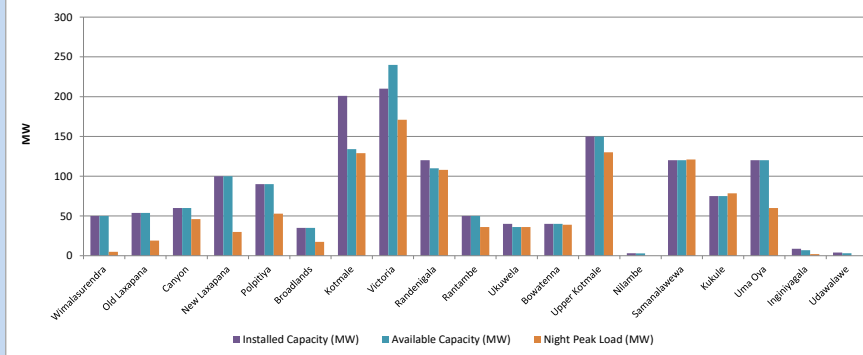


Available Generation is estimated based on plant availability at 6.00am on

November 3, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 2, 2024



Plant availability is recorded at 6.00 am on

November 3, 2024

1.8 Summary of Major Plant performance

November 2, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	5	86
Old Laxapana	54	54	19	595
Canyon	60	60	46	367
New Laxapana	100	100	30	1,162
Polpitiya	90	90	53	1,030
Broadlands	35	35	17	335
Kotmale	201	134	129	980
Victoria	210	240	171	1,532
Randenigala	120	110	108	739
Rantambe	50	50	36	494
Ukuwela	40	36	36	819
Bowatenna	40	40	39	280
Upper Kotmale	150	150	130	3,362
Nilambe	3	3	0	57
Samanalawewa	120	120	121	537
Kukule	75	75	78	1,883
Uma Oya	120	120	60	2,642
Inginigala	9	7	2	101
Udawalawe	4	3	0	65
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,175
Puttalam Coal III	270	270	272	6,160
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	151	2,820
Sapugaskanda A	68	32	31	145
Sapugaskanda B	72	45	36	167
Uthura Janani	26	16	15	98
Barge CEB	60	60	60	422
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	2,852	2,164	39,090

Note-

Plant availability is the availability recorded at 6 am on

November 3, 2024

1.9 Contribution to the Night Peak in MW

November 2, 2024

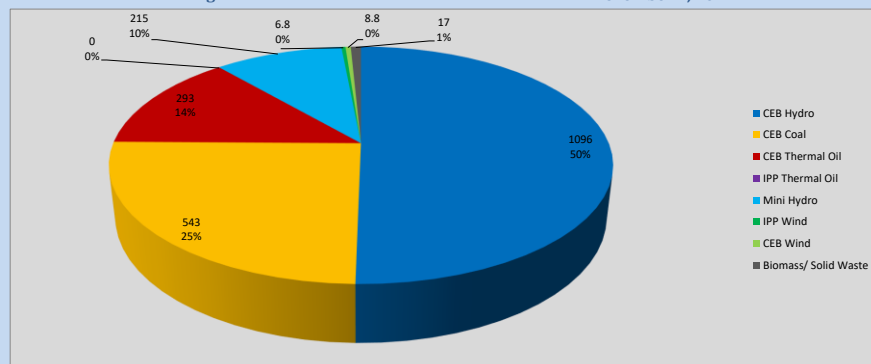


Table 05

CEB Hydro	1096	MW
CEB Coal	543	MW
CEB Thermal Oil	293	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	215	MW
IPP Wind	6.8	MW
CEB Wind	8.8	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

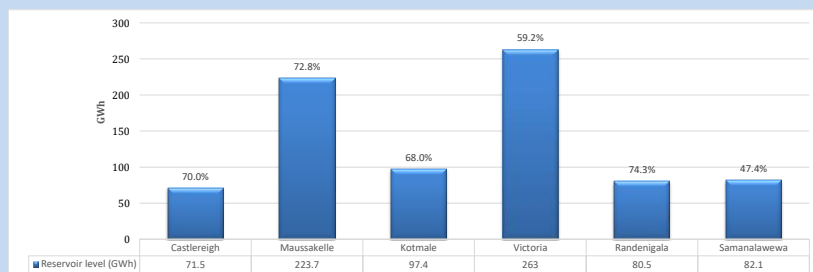
Table 06

Night Peak*	2,179	MW
Day Peak Maximum Demand	1,900	MW
Day Peak Minimum Demand	1,352	MW
Off Peak Minimum Demand	1,341	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 3, 2024



Total Reservoir Level
% of Total capacity

818.2 GWh
64.0%

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

November 2, 2024

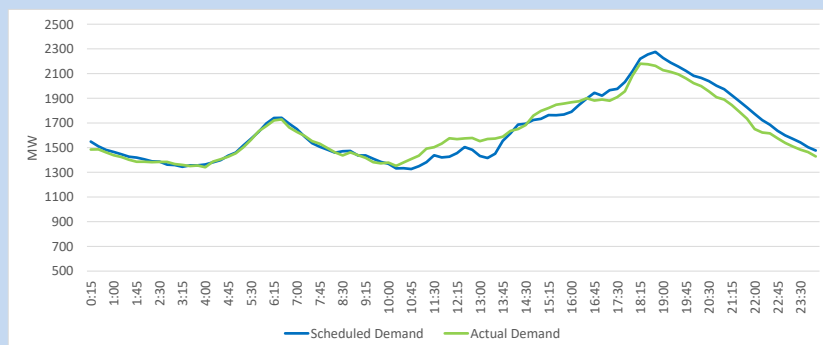
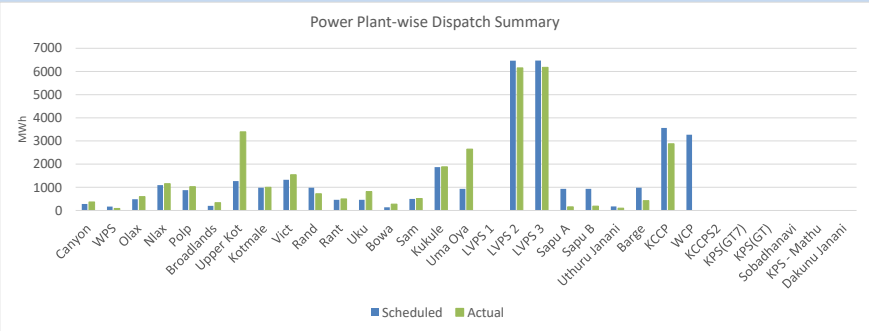


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,040	16,863	4,822
CEB Coal	12,932	12,332	(601)
CEB Thermal Oil	6,585	3,746	(2,839)
IPP Thermal Oil	3,269	-	(3,269)
NCRE (Telemetered)	4,520	6,228	1,708
Total	39,347	39,168	(179)

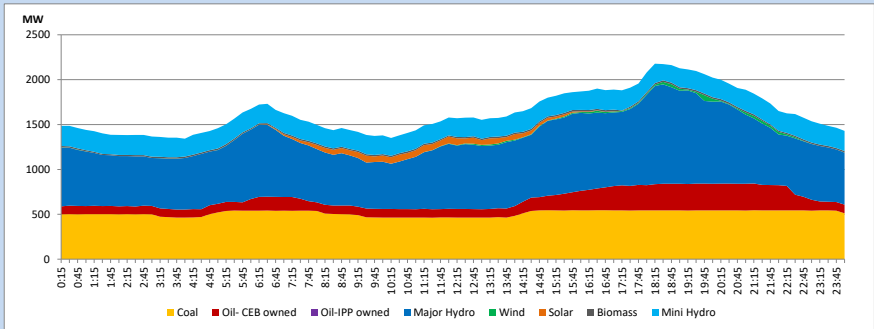
1.12 Power Plant-wise Dispatch Summary

November 2, 2024



1.13 Daily Load Curve

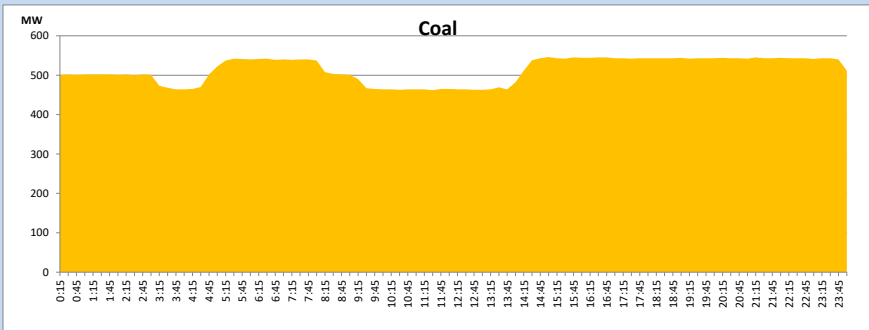
November 2, 2024



Solar and wind data is based on Telemetered Power Stations only

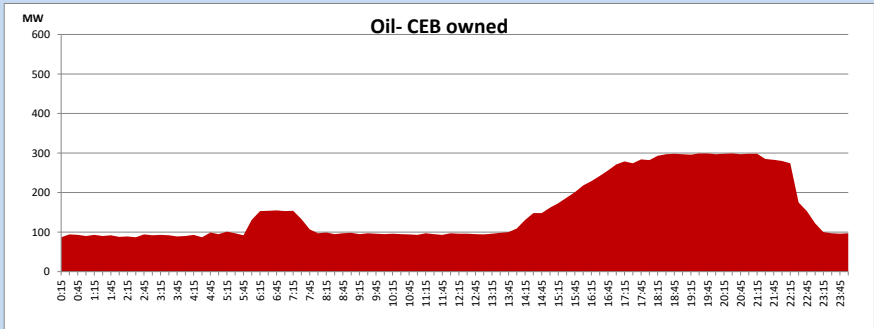
Coal Generation during

November 2, 2024



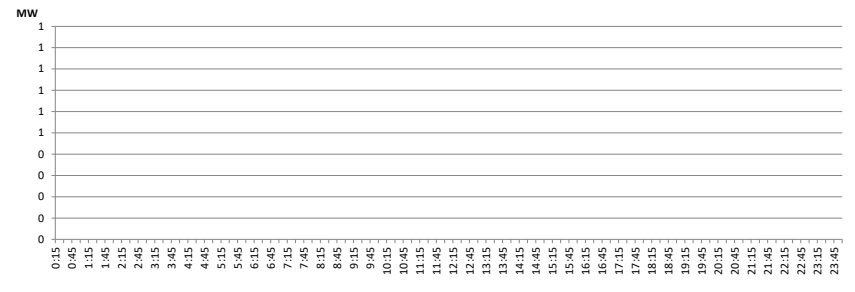
CEB Oil Plant Generation during

November 2, 2024



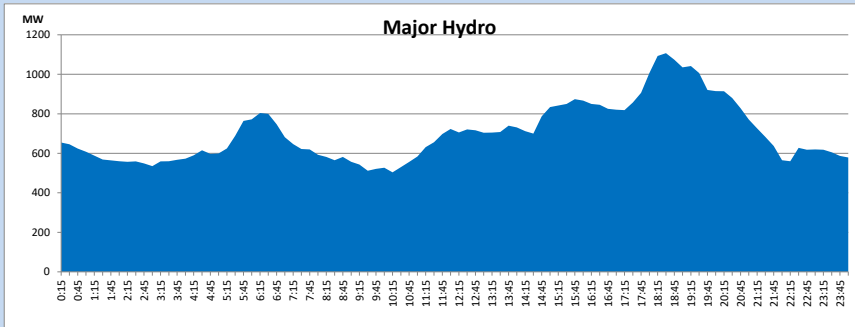
IPP Oil Plant Generation during

November 2, 2024



Major Hydro Generation during

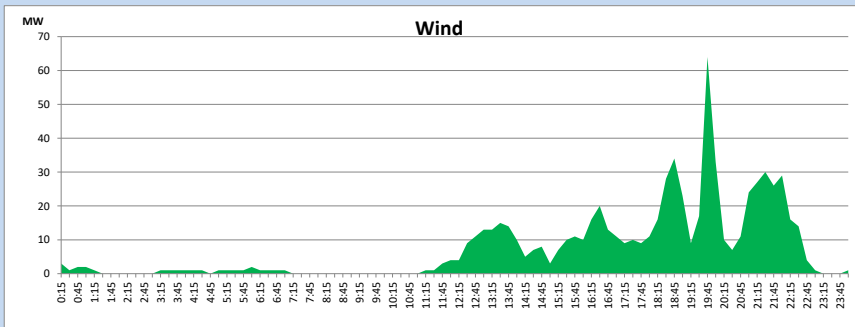
November 2, 2024



Wind Generation during

November 2, 2024

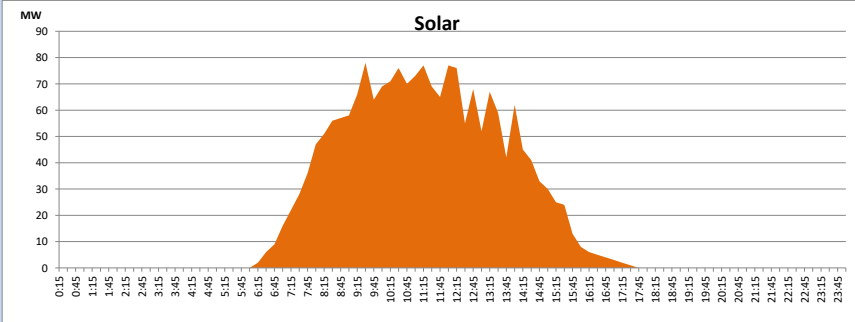
Based on Telemetered Power Stations only



Solar Generation during

November 2, 2024

Based on Telemetered Power Stations only

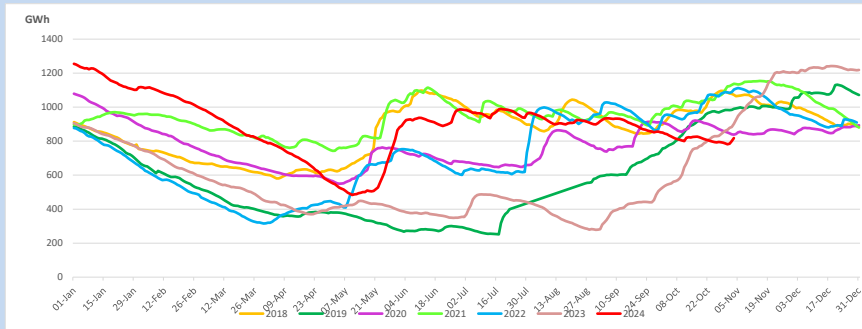


1.14 Major Incidents reported during the day

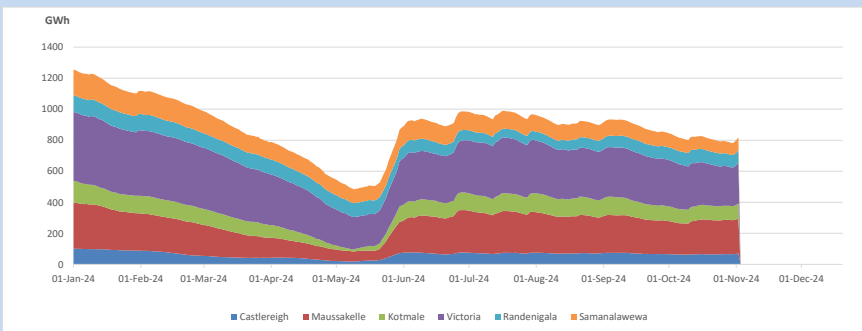
November 2, 2024

- 1) Kukule pond spilling stopped at 11:27hrs and again started at 13:35hrs and continues the present hour.
- 2) Uma oya unit 02 tripped at 17:51hrs rejecting 60MW from the system due to governor failure. Unit 02 resumed generation at 19:19hrs.

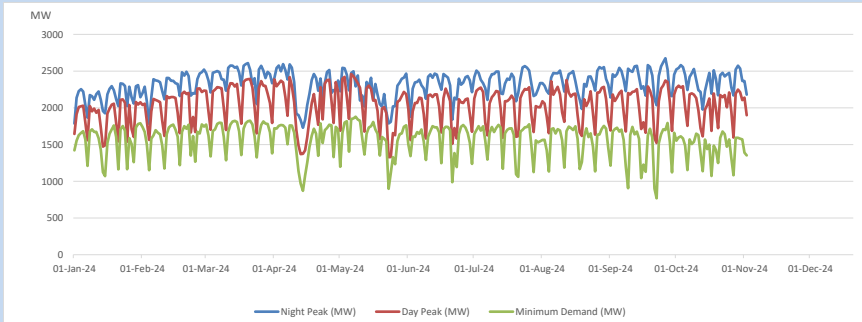
2. Comparison of Total Reservoir Storage Levels with Past Years



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

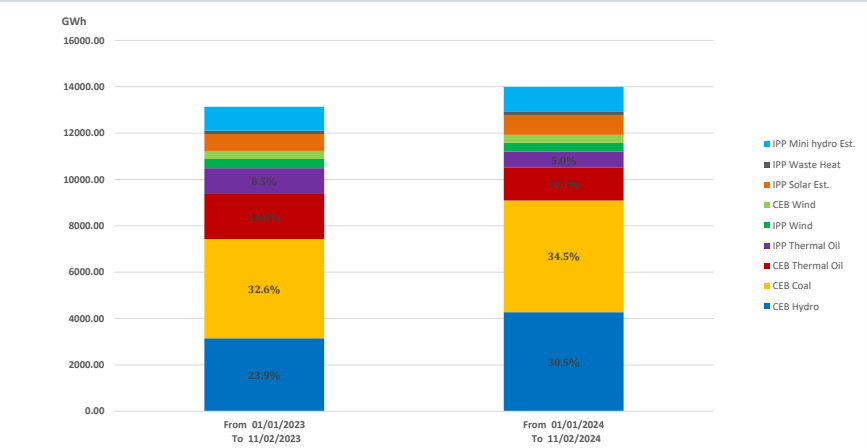


4. Variation of Demand during the current year



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 11/02/2023 13136 GWh
From 01/01/2024 To 11/02/2024 13994 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