

Generation and Reservoirs Statistics

November 1, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 1, 2024

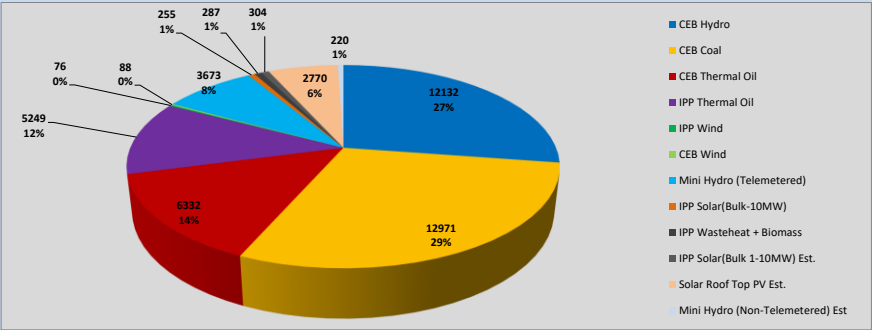


Table 01

	Generation (MWh)
CEB Hydro	12,132
CEB Coal	12,971
CEB Thermal Oil	6,332
IPP Thermal Oil	5,249
IPP Wind	76
CEB Wind	88
Mini Hydro (Telemetered)	3,673
IPP Solar (Bulk)	255
IPP Waste heat + Biomass	287
Total Generation (Excluding estimated figures)	41,063
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	220
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	44,357

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	12	27.35%
CEB Coal	13	29.24%
CEB Thermal Oil	6	14.27%
IPP Thermal	5	11.84%
IPP Wind	0	0.18%
CEB Wind	0	0.20%
Mini Hydro *	4	8.77%
IPP Solar *	3	7.49%
IPP Waste heat + BMP	0	0.65%
Total	44	

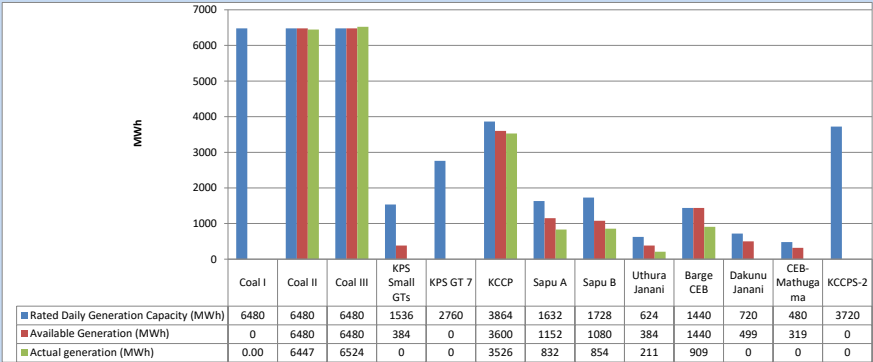
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,252	30.48%
CEB Coal	4,810	34.48%
CEB Thermal Oil	1,405	10.07%
IPP Thermal	703	5.04%
IPP Wind	377	2.70%
CEB Wind	348	2.49%
Mini Hydro *	1,073	7.69%
IPP Solar *	855	6.13%
IPP Waste heat	128	0.92%
Total	13,952	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 1, 2024

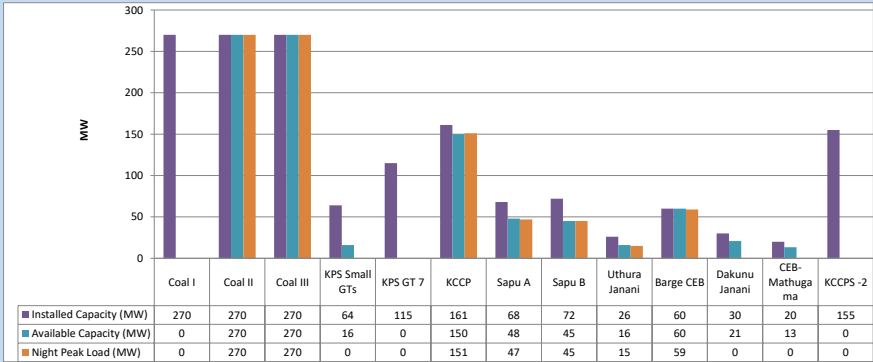


Available Generation is estimated based on plant availability at 6.00am on

November 2, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 1, 2024

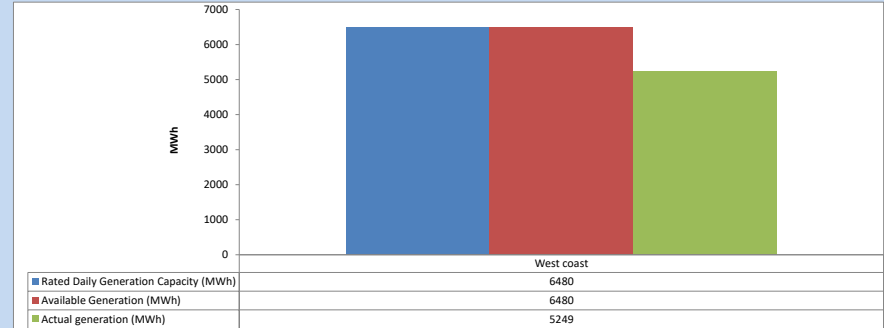


Plant availability is recorded at 6.00 am on

November 2, 2024

1.4 IPP owned Thermal Plant Dispatch

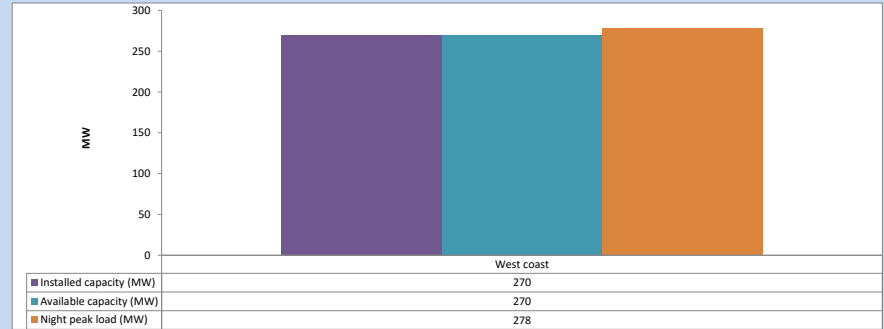
November 1, 2024



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

November 2, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

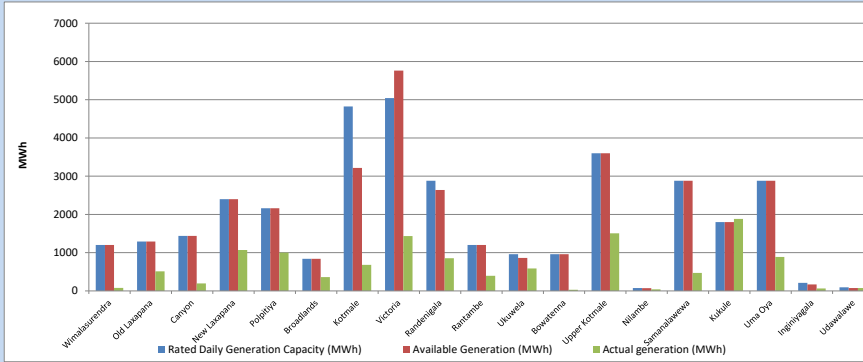


Plant availability is recorded at 6.00 am on

November 2, 2024

1.6 Major Hydro Plant Dispatch

November 1, 2024

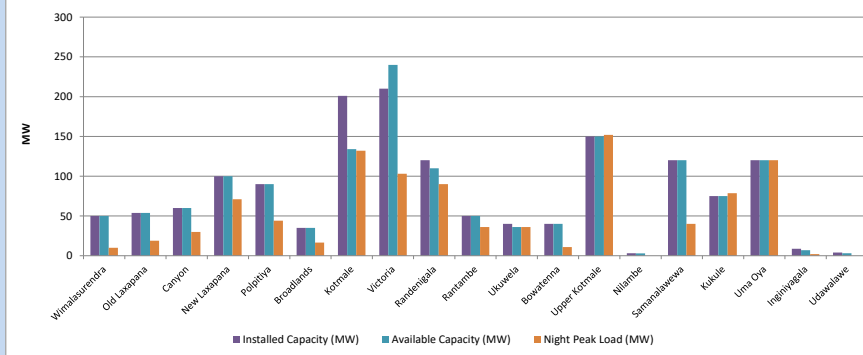


Available Generation is estimated based on plant availability at 6.00am on

November 2, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 1, 2024



Plant availability is recorded at 6.00 am on

November 2, 2024

1.8 Summary of Major Plant performance

November 1, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	10	78
Old Laxapana	54	54	19	511
Canyon	60	60	30	195
New Laxapana	100	100	71	1,071
Polpitiya	90	90	44	1,000
Broadlands	35	35	17	363
Kotmale	201	134	132	680
Victoria	210	240	103	1,433
Randenigala	120	110	90	856
Rantambe	50	50	36	397
Ukuwela	40	36	36	587
Bowatenna	40	40	11	30
Upper Kotmale	150	150	152	1,508
Nilambe	3	3	0	41
Samanalawewa	120	120	40	471
Kukule	75	75	79	1,884
Uma Oya	120	120	120	888
Inginigala	9	7	2	65
Udawalawe	4	3	0	75
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,447
Puttalam Coal III	270	270	270	6,524
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	151	3,526
Sapugaskanda A	68	48	47	832
Sapugaskanda B	72	45	45	854
Uthura Janani	26	16	15	211
Barge CEB	60	60	59	909
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	278	5,249
Sobadhanavi	220	0	0	0
Total	3,602	2,868	2,354	41,064

Note-

Plant availability is the availability recorded at 6 am on

November 2, 2024

1.9 Contribution to the Night Peak in MW

November 1, 2024

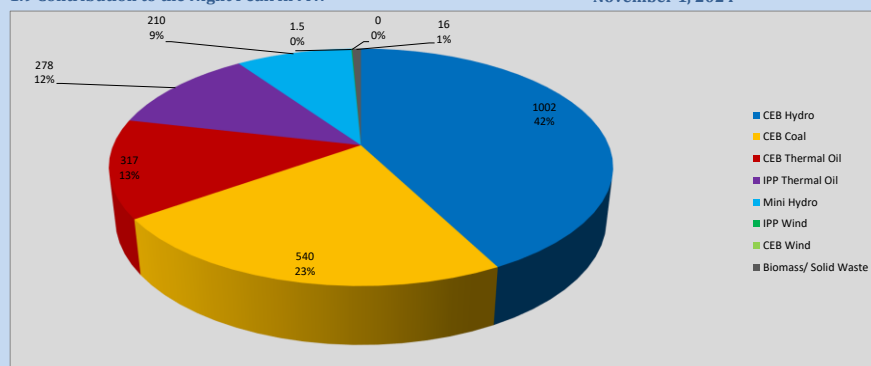


Table 05

CEB Hydro	1002	MW
CEB Coal	540	MW
CEB Thermal Oil	317	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	210	MW
IPP Wind	1.5	MW
CEB Wind	0	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

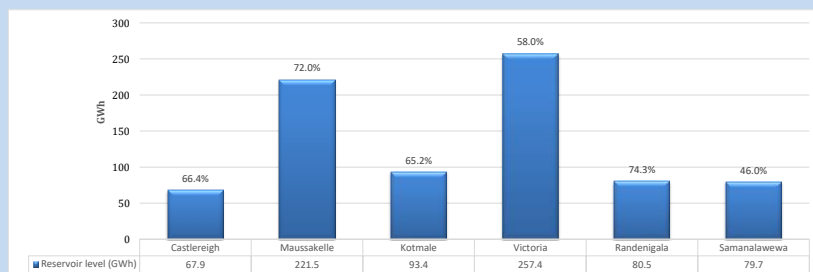
Table 06

Night Peak*	2,365	MW
Day Peak Maximum Demand	2,138	MW
Day Peak Minimum Demand	1,390	MW
Off Peak Minimum Demand	1,363	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 2, 2024



Total Reservoir Level
% of Total capacity

800.4 GWh
62.6%

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

November 1, 2024

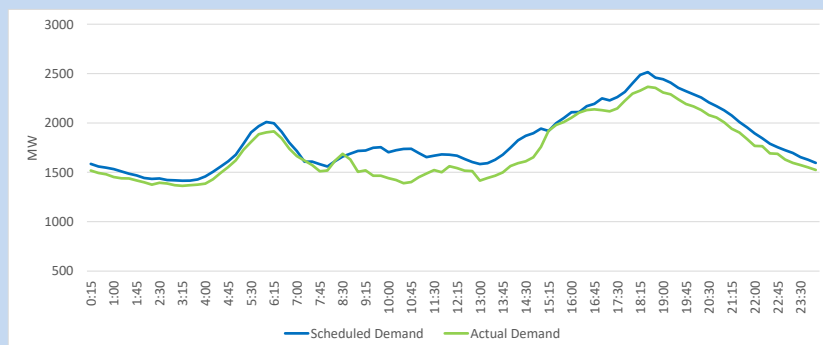
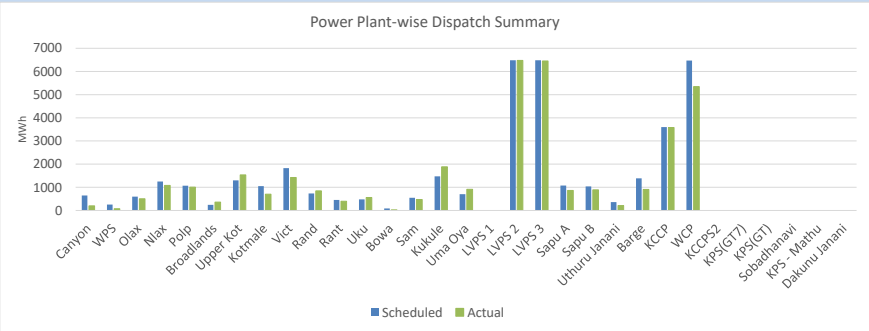


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,723	12,004	(719)
CEB Coal	12,960	12,933	(28)
CEB Thermal Oil	7,459	6,449	(1,011)
IPP Thermal Oil	6,469	5,343	(1,127)
NCRE (Telemetered)	4,108	4,361	253
Total	43,719	41,089	(2,630)

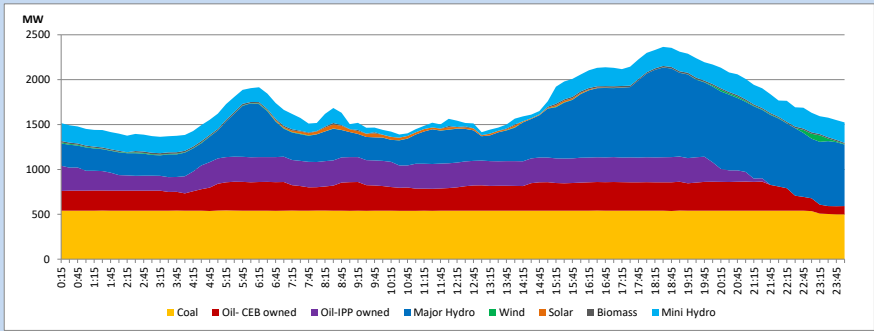
1.12 Power Plant-wise Dispatch Summary

November 1, 2024



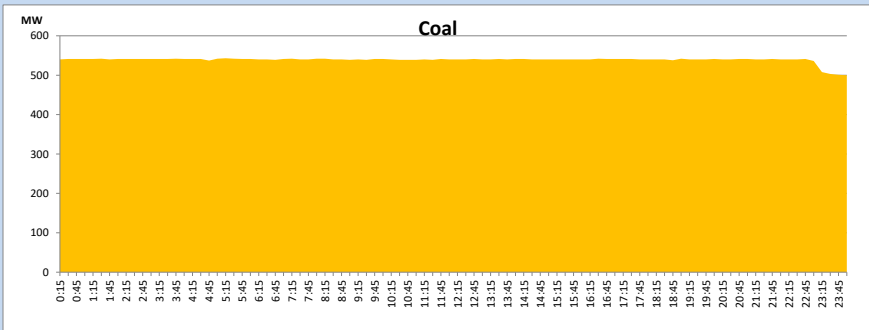
1.13 Daily Load Curve

November 1, 2024



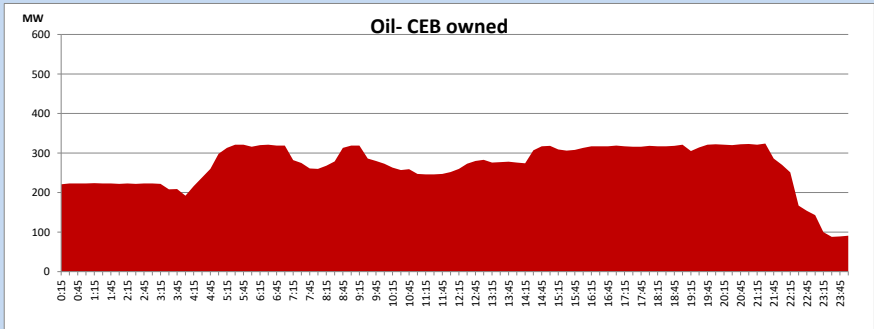
Coal Generation during

November 1, 2024



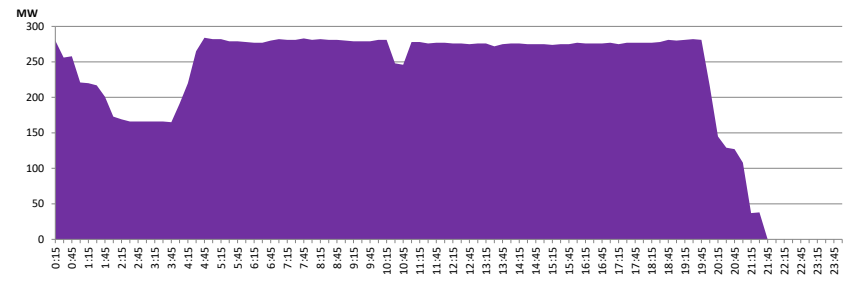
CEB Oil Plant Generation during

November 1, 2024



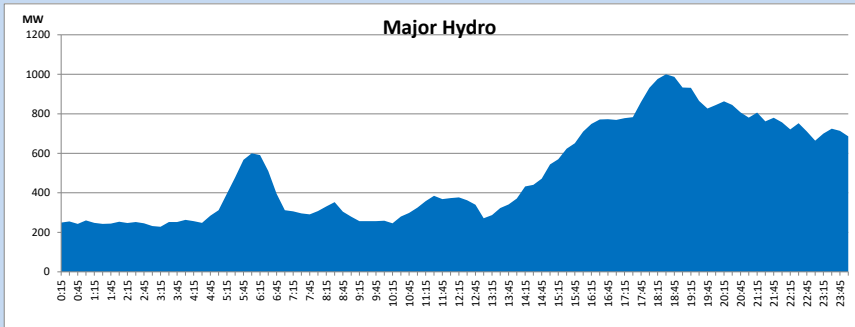
IPP Oil Plant Generation during

November 1, 2024



Major Hydro Generation during

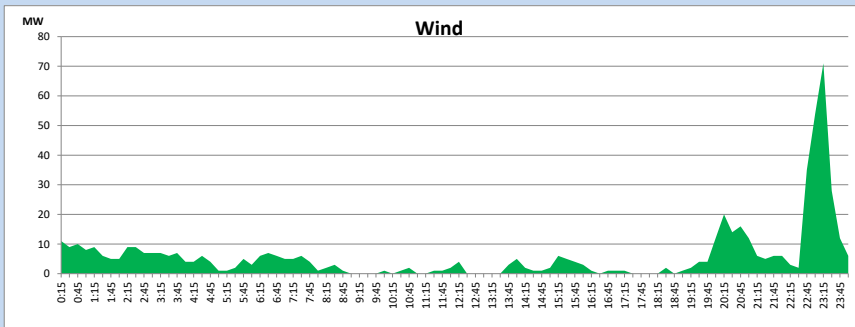
November 1, 2024



Wind Generation during

November 1, 2024

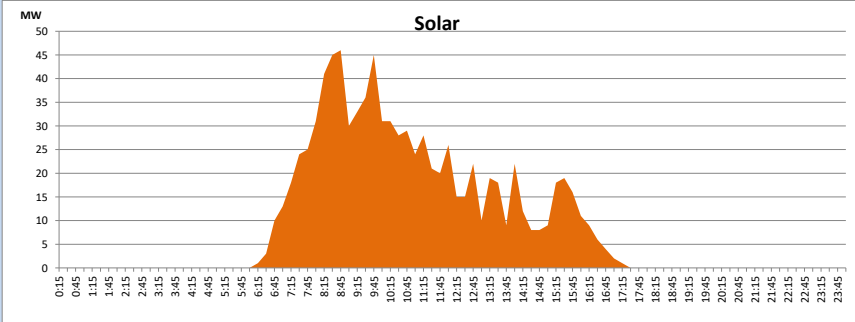
Based on Telemetered Power Stations only



Solar Generation during

November 1, 2024

Based on Telemetered Power Stations only

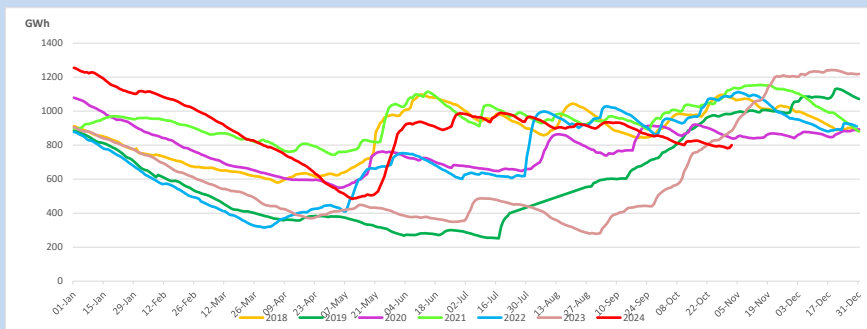


1.14 Major Incidents reported during the day

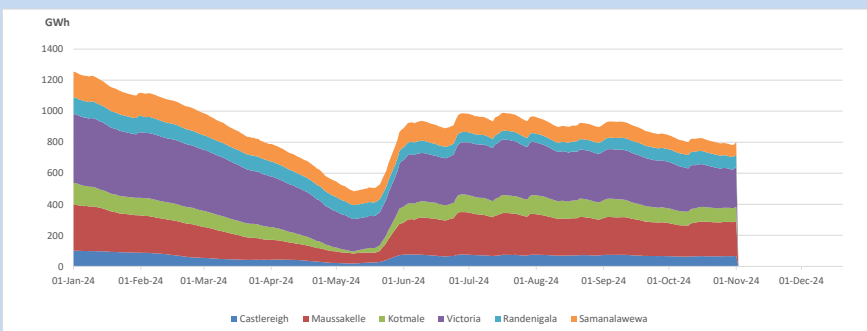
November 1, 2024

- 1) Uma Oya (Dyraaba) pond spilling started at 18:10hrs and stopped at 01:10hrs (02.11.2024).
- 2) Polpitiya Unit 02 which made unavailable on 26.10.2024 due to unit T/F inspection, resumed generation at 02:30hrs (02.11.2024).
- 3) Kukule pond spilling continues to the present hour.

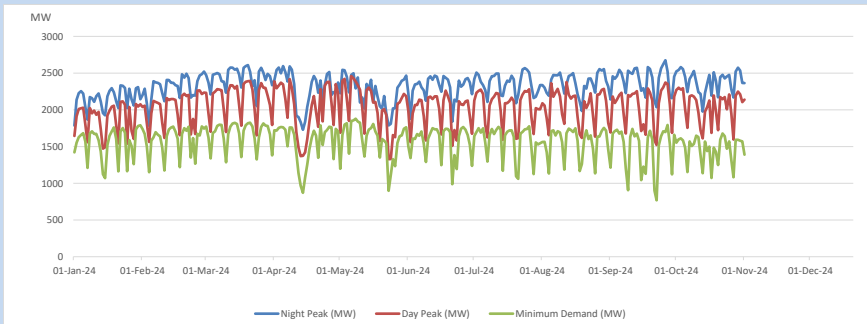
2. Comparison of Total Reservoir Storage Levels with Past Years



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

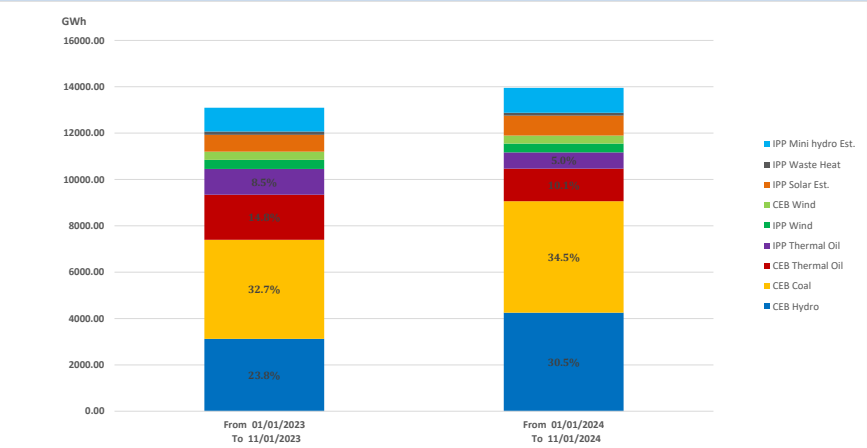


4. Variation of Demand during the current year



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 11/01/2023 13094 GWh
From 01/01/2024 To 11/01/2024 13952 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