

Generation and Reservoirs Statistics

November 9, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 9, 2024

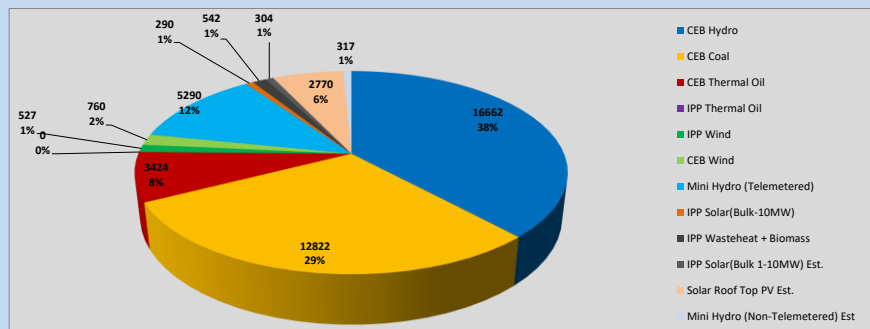


Table 01

	Generation (MWh)
CEB Hydro	16,662
CEB Coal	12,822
CEB Thermal Oil	3,424
IPP Thermal Oil	-
IPP Wind	527
CEB Wind	760
Mini Hydro (Telemetered)	5,290
IPP Solar (Bulk)	290
IPP Waste heat + Biomass	542
Total Generation (Excluding estimated figures)	40,317
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	317
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	43,708

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	134	33.33%
CEB Coal	114	28.46%
CEB Thermal Oil	40	9.96%
IPP Thermal	24	5.95%
IPP Wind	2	0.52%
CEB Wind	3	0.68%
Mini Hydro *	51	12.60%
IPP Solar *	30	7.58%
IPP Waste heat + BMP	4	0.91%
Total	402	

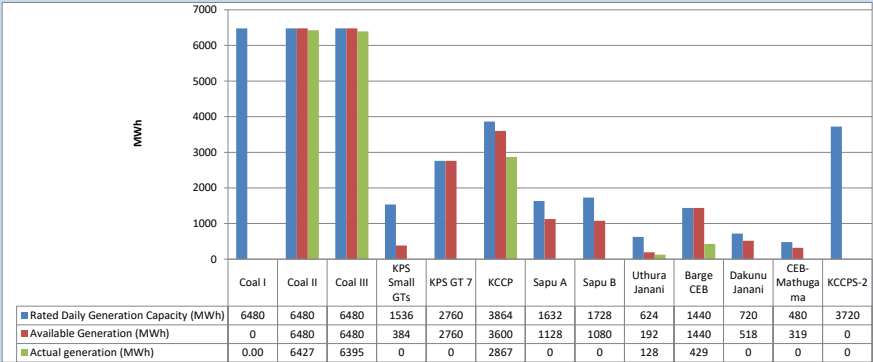
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,374	30.57%
CEB Coal	4,912	34.33%
CEB Thermal Oil	1,439	10.06%
IPP Thermal	722	5.04%
IPP Wind	379	2.65%
CEB Wind	350	2.45%
Mini Hydro *	1,120	7.83%
IPP Solar *	882	6.17%
IPP Waste heat	131	0.92%
Total	14,310	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 9, 2024

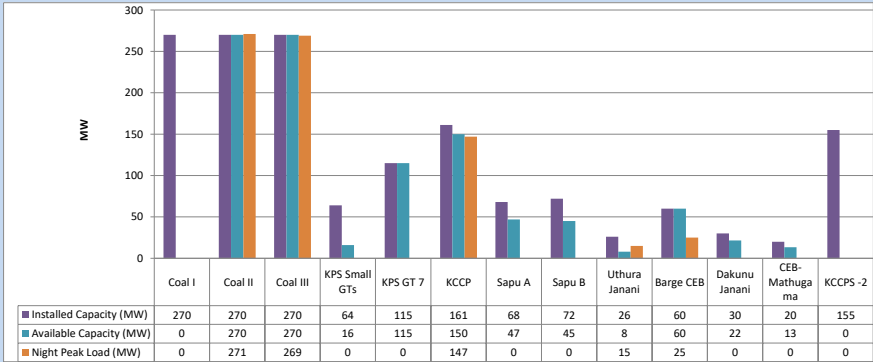


Available Generation is estimated based on plant availability at 6.00am on

November 10, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 9, 2024

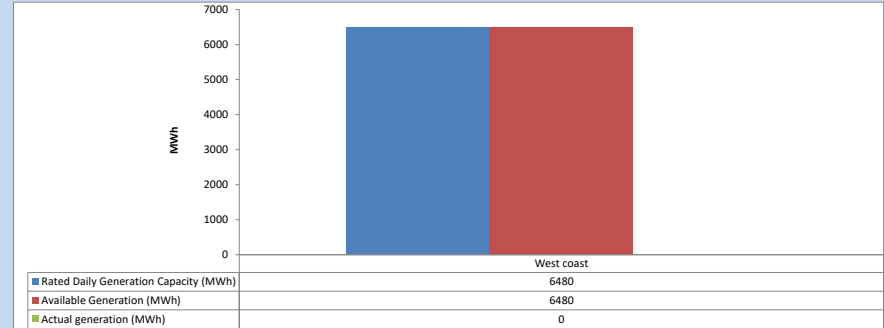


Plant availability is recorded at 6.00 am on

November 10, 2024

1.4 IPP owned Thermal Plant Dispatch

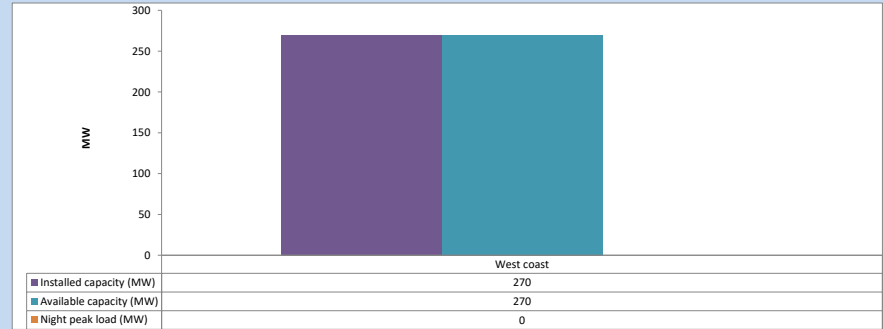
November 9, 2024



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

November 10, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

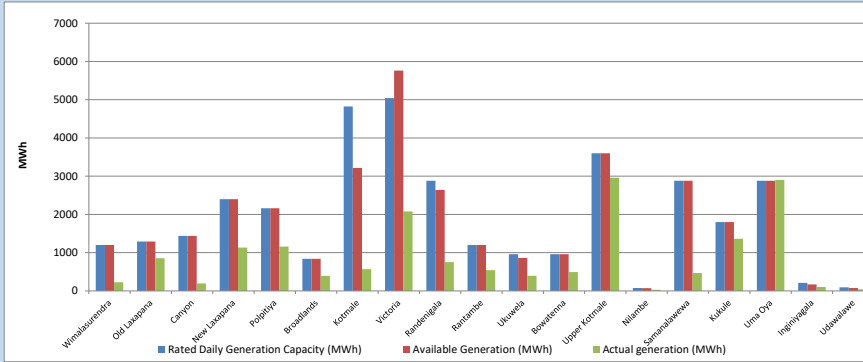


Plant availability is recorded at 6.00 am on

November 10, 2024

1.6 Major Hydro Plant Dispatch

November 9, 2024

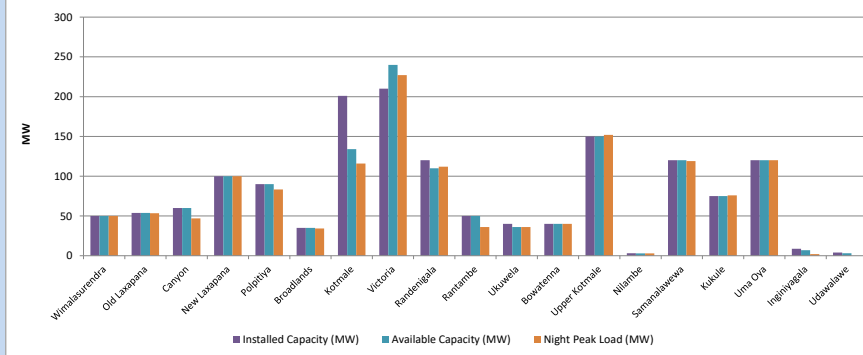


Available Generation is estimated based on plant availability at 6.00am on

November 10, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 9, 2024



Plant availability is recorded at 6.00 am on

November 10, 2024

1.8 Summary of Major Plant performance

November 9, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	225
Old Laxapana	54	54	54	854
Canyon	60	60	47	195
New Laxapana	100	100	100	1,135
Polpitiya	90	90	83	1,160
Broadlands	35	35	34	395
Kotmale	201	134	116	570
Victoria	210	240	227	2,077
Randenigala	120	110	112	754
Rantambe	50	50	36	543
Ukuwela	40	36	36	394
Bowatenna	40	40	40	494
Upper Kotmale	150	150	152	2,961
Nilambe	3	3	3	31
Samanalawewa	120	120	119	466
Kukule	75	75	76	1,362
Uma Oya	120	120	120	2,905
Inginigala	9	7	2	101
Udawalawe	4	3	0	40
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,427
Puttalam Coal III	270	270	269	6,395
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	147	2,867
Sapugaskanda A	68	47	0	0
Sapugaskanda B	72	45	0	0
Uthura Janani	26	8	15	128
Barge CEB	60	60	25	429
CEB-Hambantota	30	22	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	2,975	2,392	40,317

Note-

Plant availability is the availability recorded at 6 am on

November 10, 2024

1.9 Contribution to the Night Peak in MW

November 9, 2024

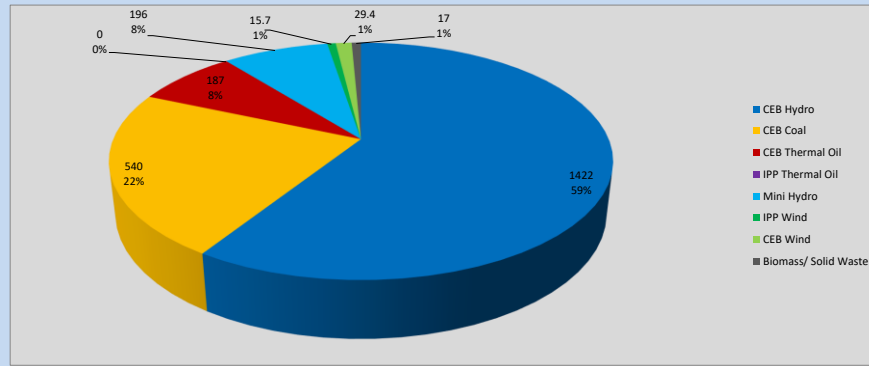


Table 05

CEB Hydro	1422	MW
CEB Coal	540	MW
CEB Thermal Oil	187	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	196	MW
IPP Wind	15.7	MW
CEB Wind	29.4	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

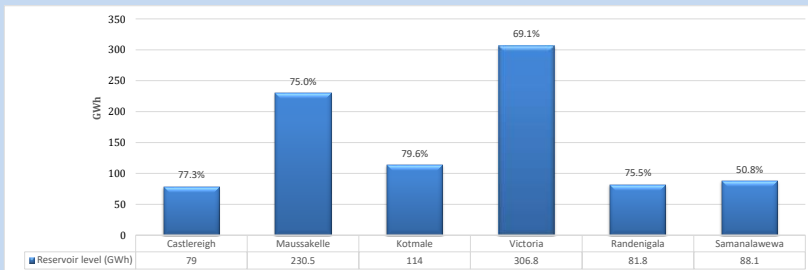
Table 06

Night Peak*	2,407	MW
Day Peak Maximum Demand	2,005	MW
Day Peak Minimum Demand	1,378	MW
Off Peak Minimum Demand	1,338	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 10, 2024



Total Reservoir Level
% of Total capacity

900.2 GWh
70.4%

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

November 9, 2024

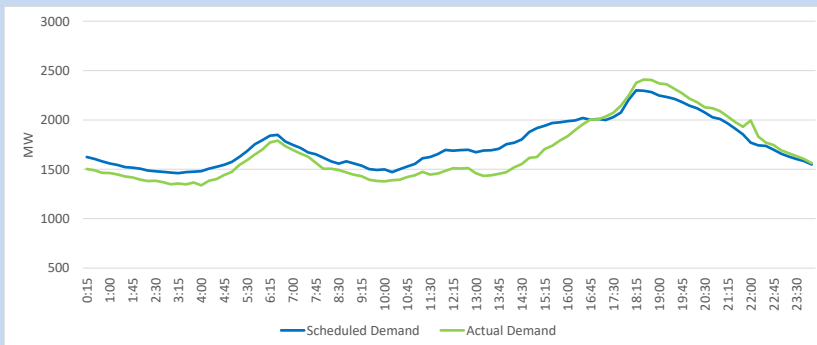
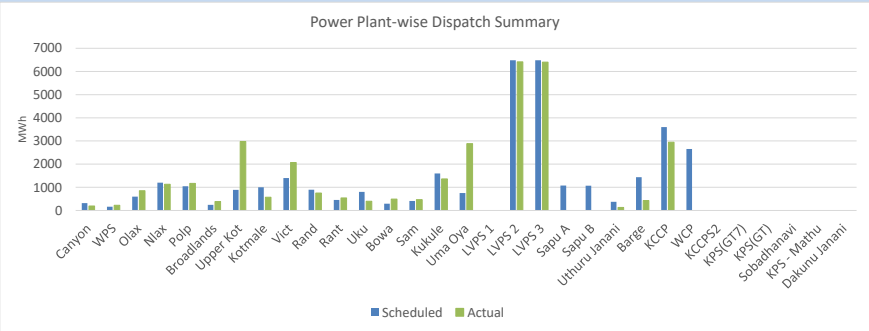


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,065	16,481	4,416
CEB Coal	12,960	12,814	(146)
CEB Thermal Oil	7,556	3,503	(4,053)
IPP Thermal Oil	2,657	-	(2,657)
NCRE (Telemetered)	6,787	7,526	739
Total	42,025	40,324	(1,701)

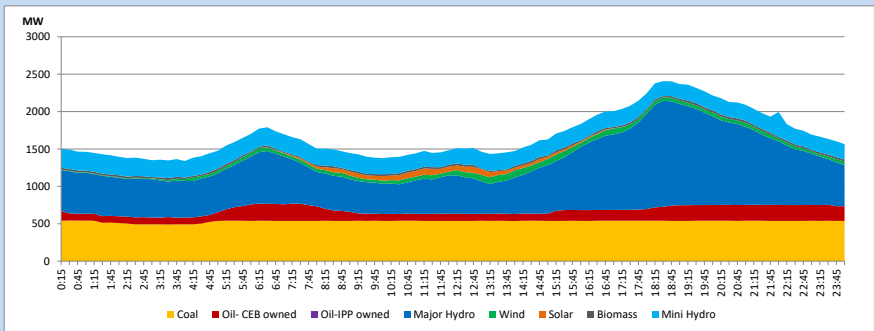
1.12 Power Plant-wise Dispatch Summary

November 9, 2024



1.13 Daily Load Curve

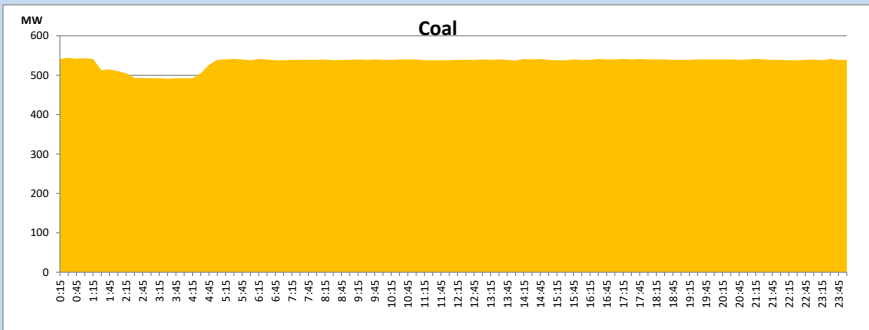
November 9, 2024



Solar and wind data is based on Telemetered Power Stations only

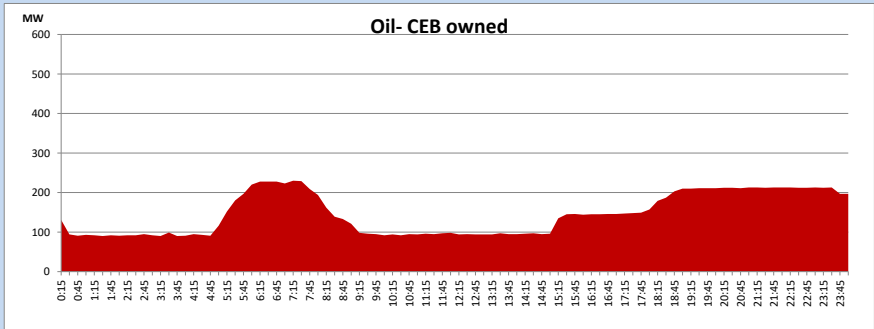
Coal Generation during

November 9, 2024



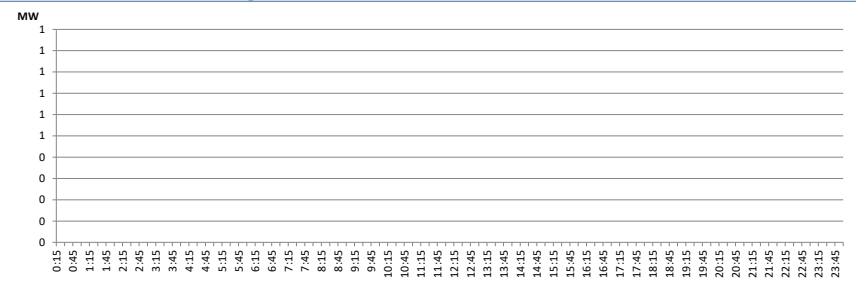
CEB Oil Plant Generation during

November 9, 2024



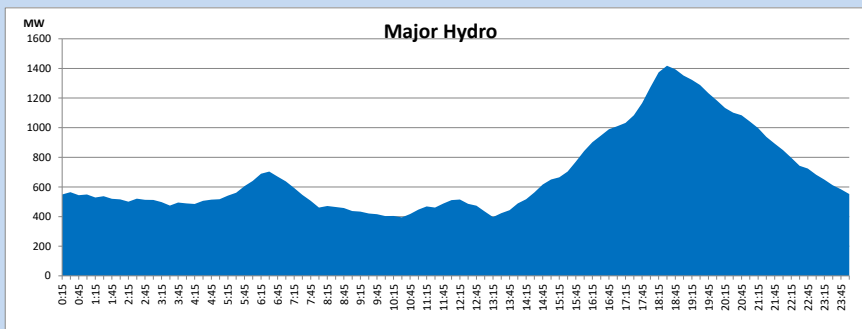
IPP Oil Plant Generation during

November 9, 2024



Major Hydro Generation during

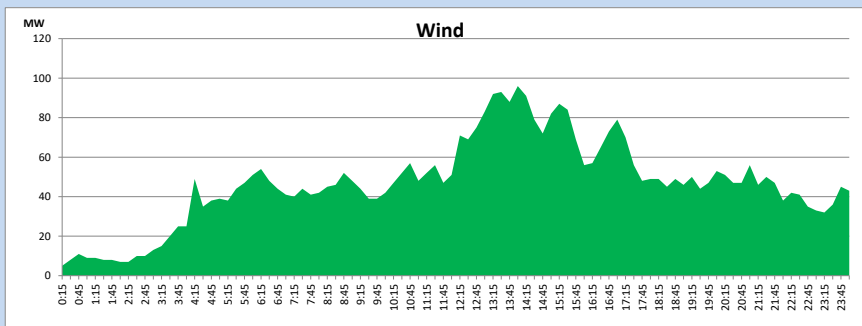
November 9, 2024



Wind Generation during

November 9, 2024

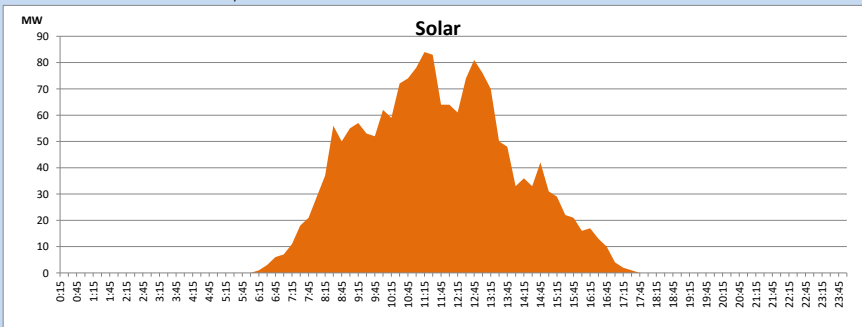
Based on Telemetered Power Stations only



Solar Generation during

November 9, 2024

Based on Telemetered Power Stations only

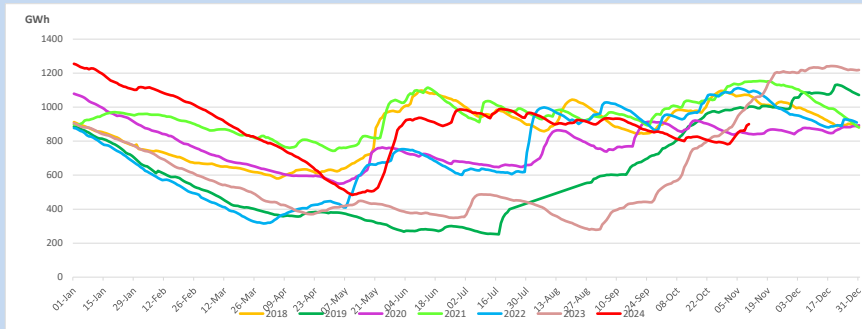


1.14 Major Incidents reported during the day

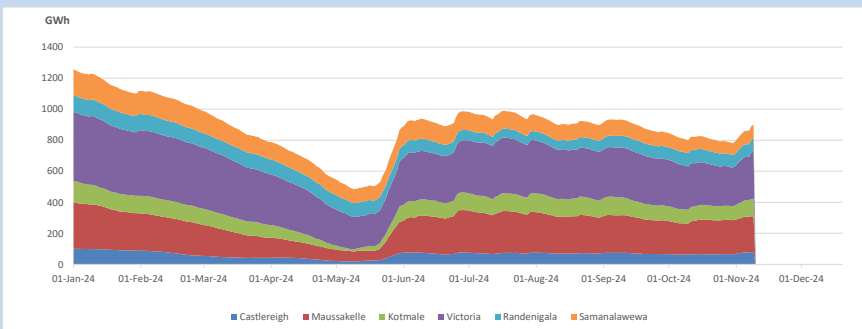
November 9, 2024

- 1) Uma Oya Puhulpola ponds spilling stopped at 7:34hrs.
- 2) Ukuwela both generators which were made unavailable on 08.11.2024, were made available for generation at 11:03hrs.

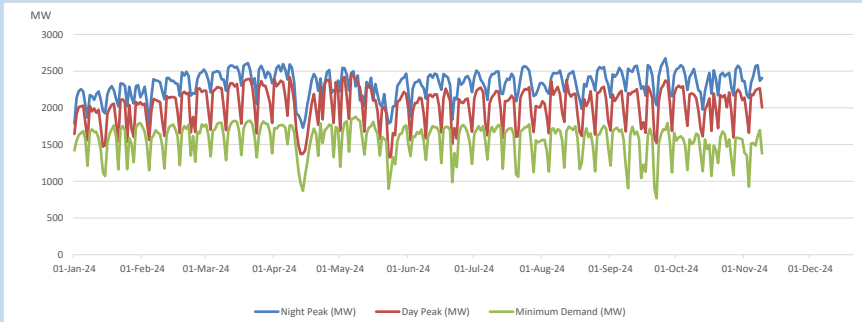
2. Comparison of Total Reservoir Storage Levels with Past Years



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

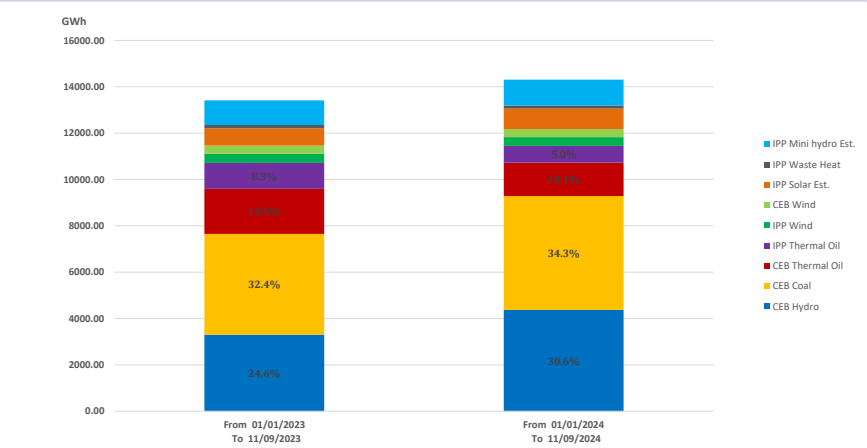


4. Variation of Demand during the current year



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 11/09/2023 13414 GWh
From 01/01/2024 To 11/09/2024 14310 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