

Generation and Reservoirs Statistics

November 8, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 8, 2024

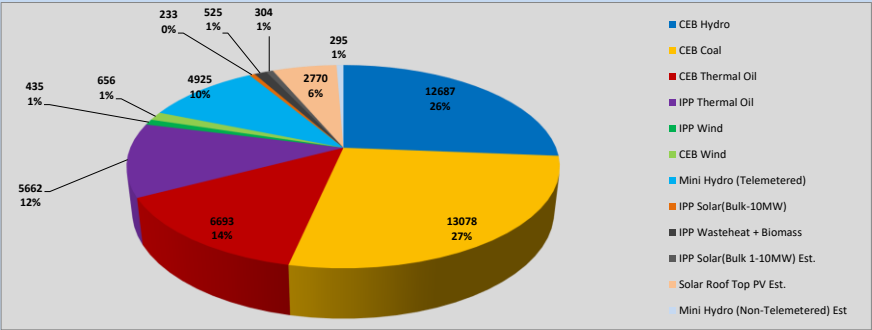


Table 01

	Generation (MWh)
CEB Hydro	12,687
CEB Coal	13,078
CEB Thermal Oil	6,693
IPP Thermal Oil	5,662
IPP Wind	435
CEB Wind	656
Mini Hydro (Telemetered)	4,925
IPP Solar (Bulk)	233
IPP Waste heat + Biomass	525
Total Generation (Excluding estimated figures)	44,894
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	295
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	48,263

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	117	32.75%
CEB Coal	102	28.36%
CEB Thermal Oil	37	10.22%
IPP Thermal	24	6.67%
IPP Wind	2	0.43%
CEB Wind	2	0.55%
Mini Hydro *	45	12.57%
IPP Solar *	27	7.57%
IPP Waste heat + BMP	3	0.87%
Total	358	

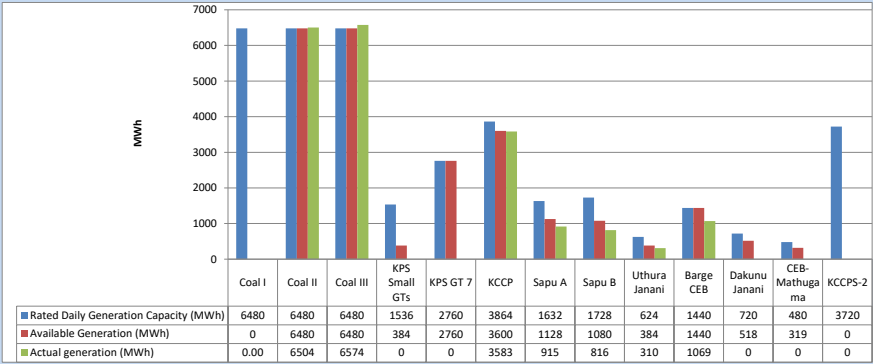
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,358	30.55%
CEB Coal	4,899	34.34%
CEB Thermal Oil	1,436	10.06%
IPP Thermal	722	5.06%
IPP Wind	378	2.65%
CEB Wind	350	2.45%
Mini Hydro *	1,115	7.81%
IPP Solar *	879	6.16%
IPP Waste heat	131	0.92%
Total	14,266	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 8, 2024

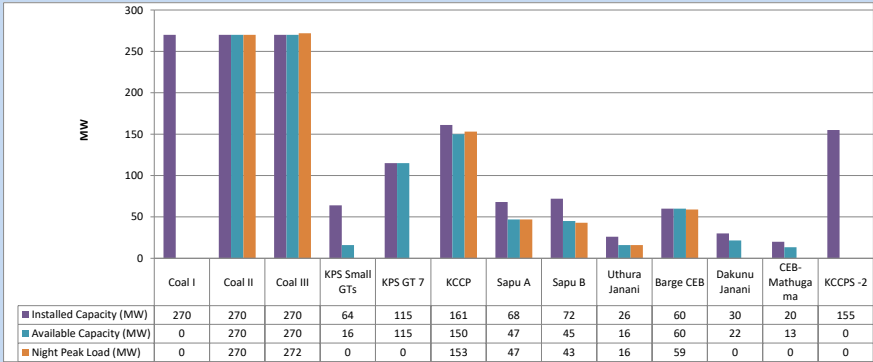


Available Generation is estimated based on plant availability at 6.00am on

November 9, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 8, 2024

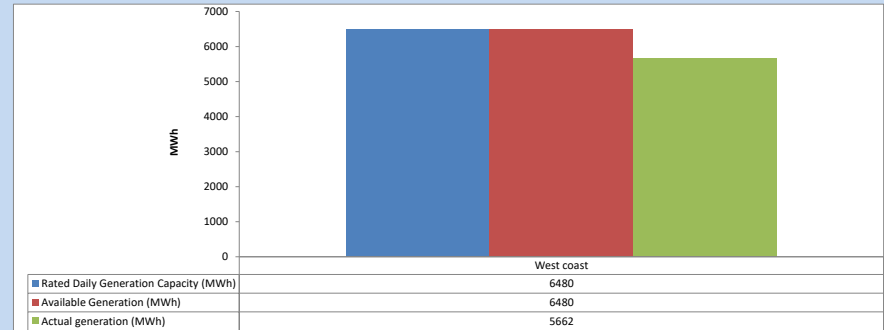


Plant availability is recorded at 6.00 am on

November 9, 2024

1.4 IPP owned Thermal Plant Dispatch

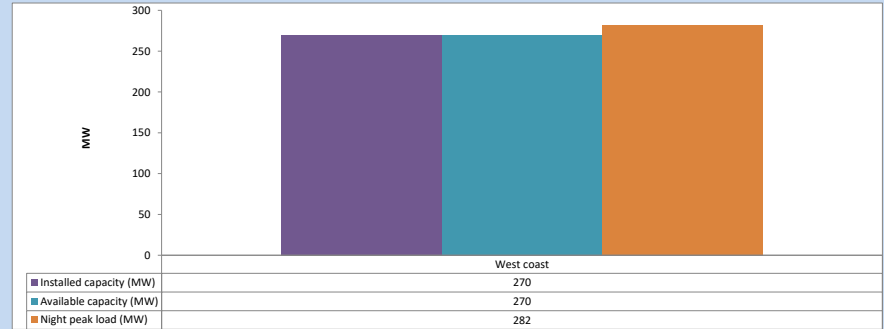
November 8, 2024



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

November 9, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

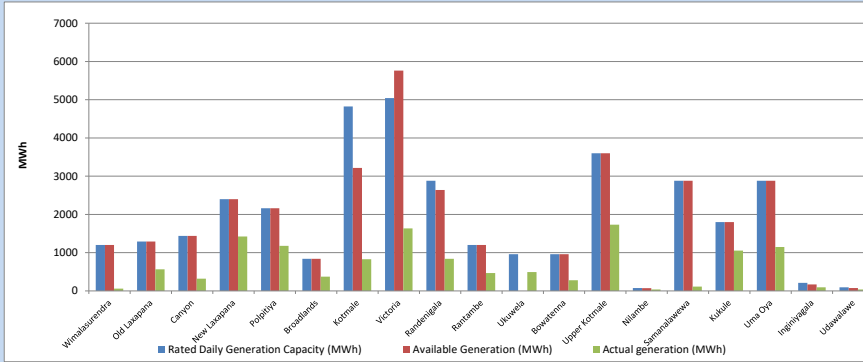


Plant availability is recorded at 6.00 am on

November 9, 2024

1.6 Major Hydro Plant Dispatch

November 8, 2024

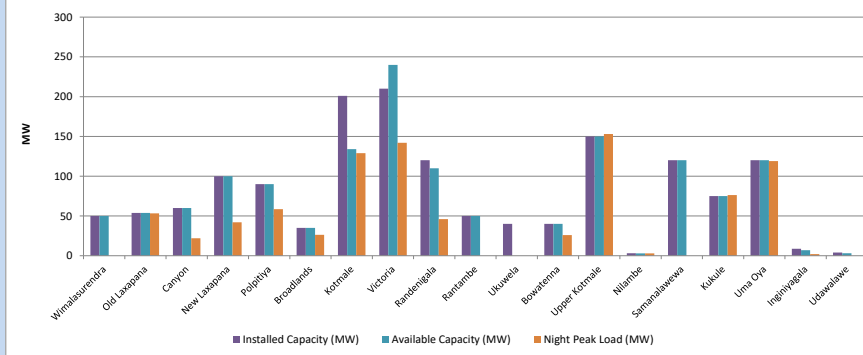


Available Generation is estimated based on plant availability at 6.00am on

November 9, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 8, 2024



Plant availability is recorded at 6.00 am on

November 9, 2024

1.8 Summary of Major Plant performance

November 8, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	0	59
Old Laxapana	54	54	53	564
Canyon	60	60	22	320
New Laxapana	100	100	42	1,425
Polpitiya	90	90	59	1,180
Broadlands	35	35	26	373
Kotmale	201	134	129	830
Victoria	210	240	142	1,635
Randenigala	120	110	46	841
Rantambe	50	50	0	466
Ukuwela	40	0	0	493
Bowatenna	40	40	26	278
Upper Kotmale	150	150	153	1,734
Nilambe	3	3	3	38
Samanalawewa	120	120	0	114
Kukule	75	75	76	1,055
Uma Oya	120	120	119	1,149
Inginigala	9	7	2	95
Udawalawe	4	3	0	39
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,504
Puttalam Coal III	270	270	272	6,574
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	153	3,583
Sapugaskanda A	68	47	47	915
Sapugaskanda B	72	45	43	816
Uthura Janani	26	16	16	310
Barge CEB	60	60	59	1,069
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	282	5,662
Sobadhanavi	220	0	0	0
Total	3,602	2,947	2,323	44,895

Note-

Plant availability is the availability recorded at 6 am on

November 9, 2024

1.9 Contribution to the Night Peak in MW

November 8, 2024

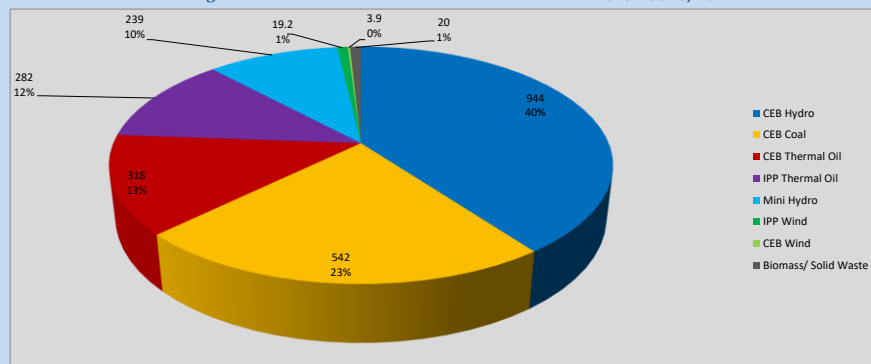


Table 05

CEB Hydro	944 MW
CEB Coal	542 MW
CEB Thermal Oil	318 MW
IPP Thermal Oil	282 MW
Mini Hydro (Telemetered)	239 MW
IPP Wind	19.2 MW
CEB Wind	3.9 MW
Biomass/ Solid Waste	20 MW

Recorded Peak Demand Data

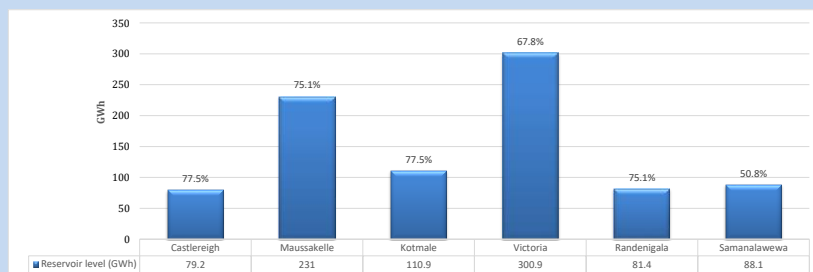
Table 06

Night Peak*	2,368 MW
Day Peak Maximum Demand	2,265 MW
Day Peak Minimum Demand	1,698 MW
Off Peak Minimum Demand	1,484 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 9, 2024



Total Reservoir Level
% of Total capacity

891.5 GWh
69.7%

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

November 8, 2024

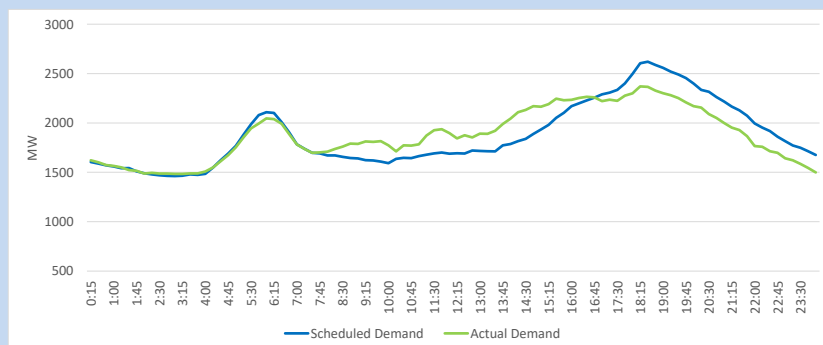
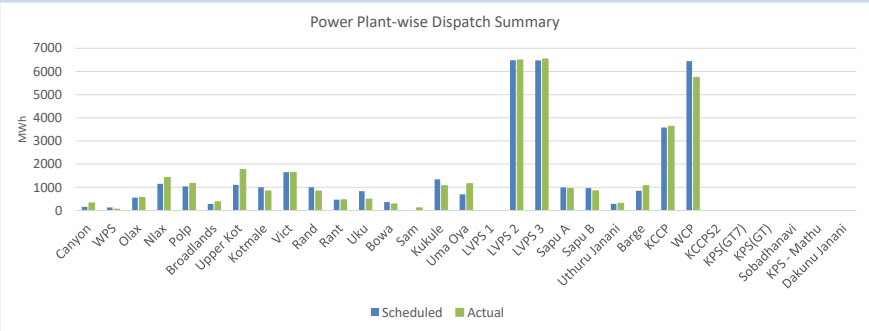


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,772	12,580	807
CEB Coal	12,957	13,033	76
CEB Thermal Oil	6,677	6,804	127
IPP Thermal Oil	6,444	5,744	(700)
NCRE (Telemetered)	7,188	6,912	(276)
Total	45,038	45,072	34

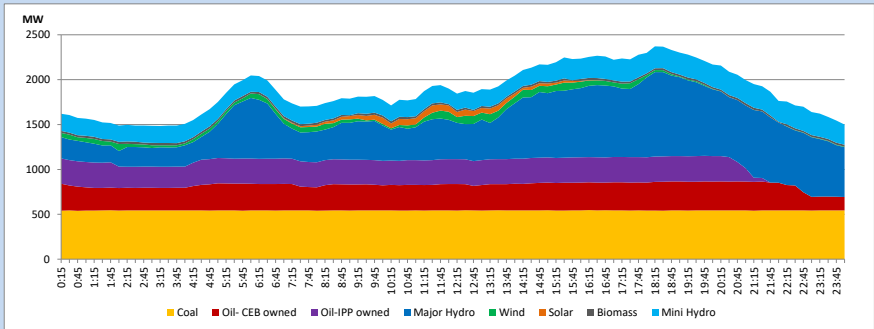
1.12 Power Plant-wise Dispatch Summary

November 8, 2024



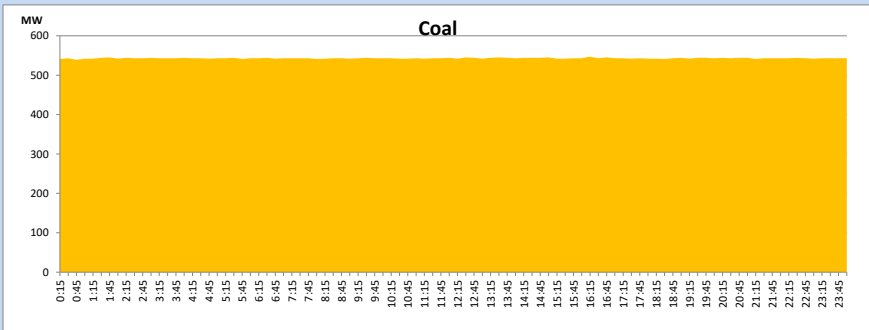
1.13 Daily Load Curve

November 8, 2024



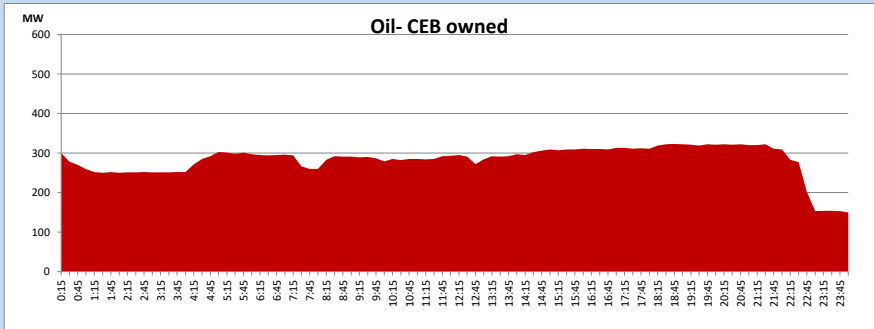
Coal Generation during

November 8, 2024



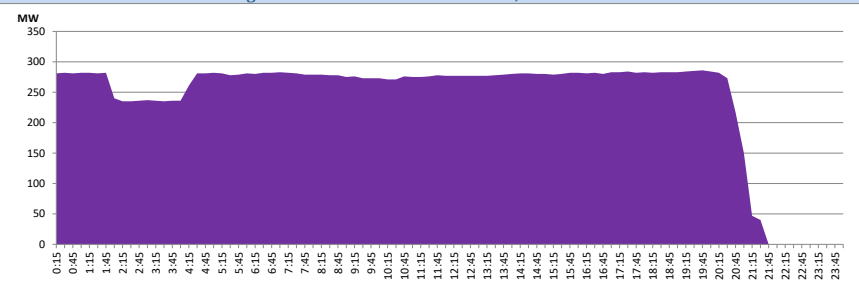
CEB Oil Plant Generation during

November 8, 2024



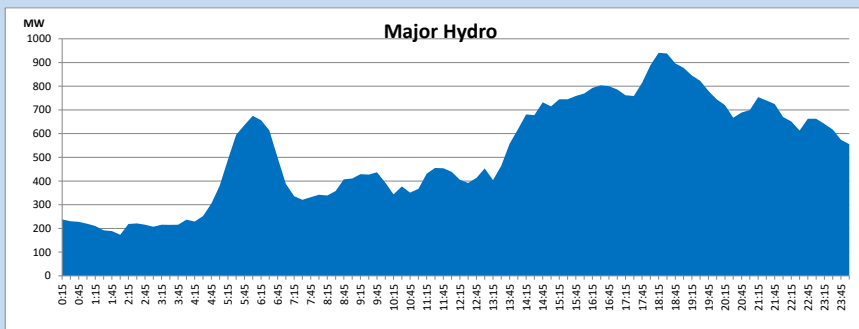
IPP Oil Plant Generation during

November 8, 2024



Major Hydro Generation during

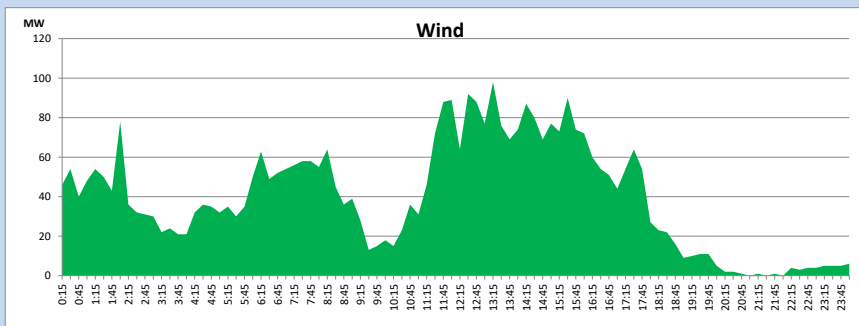
November 8, 2024



Wind Generation during

November 8, 2024

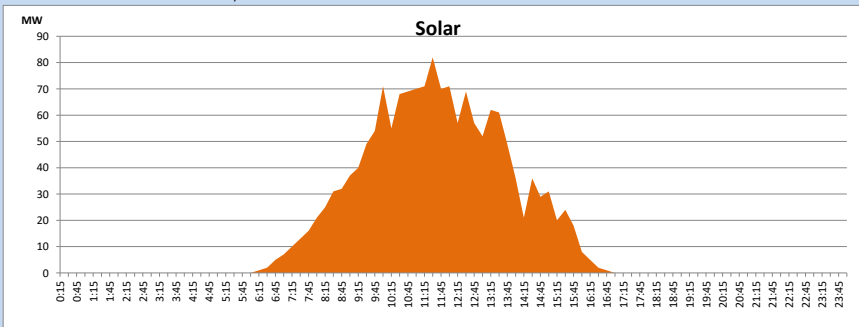
Based on Telemetered Power Stations only



Solar Generation during

November 8, 2024

Based on Telemetered Power Stations only

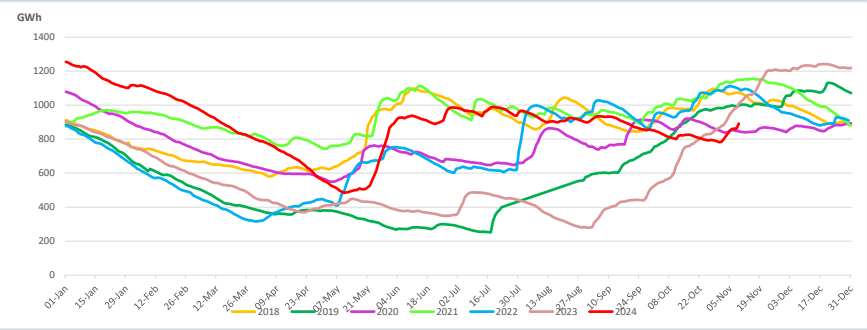


1.14 Major Incidents reported during the day

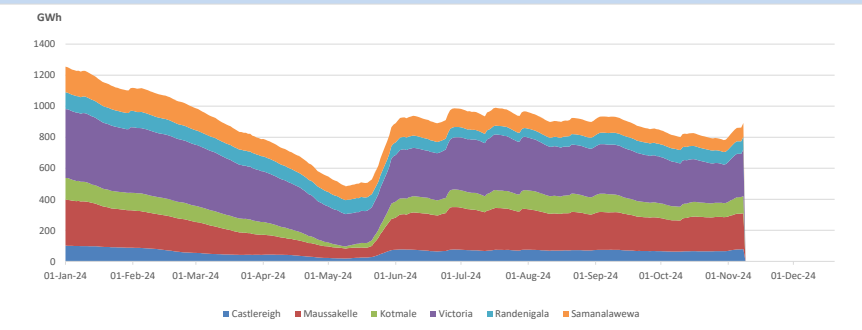
November 8, 2024

- 1) New Anuradhapura - Trincomalee 132kV cct tripped & A/R from both ends at 12:06hrs due to the operation of differential protection.
- 2) Ukuwela Generator unit 01 & unit 02 stopped at 15:11hrs and 15:18hrs respectively due to the blockage of Polgolla intake. The both units are yet to be resumed generation.
- 3) Samanalaewewa both generators which were made unavailable on 06.11.2024, were made available for generation at 19:46hrs.
- 4) Uma Oya Dvraaba & Puhulpola ponds spilling started at 18:02hrs and 22:10hrs respectively. Dvraaba pond spilling stopped at 01:23hrs (09.11.2024) and Phulpola pond spilling continues to the present hour.

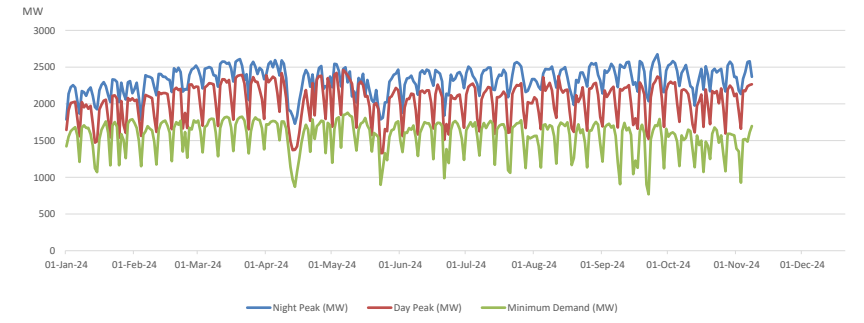
2. Comparison of Total Reservoir Storage Levels with Past Years



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

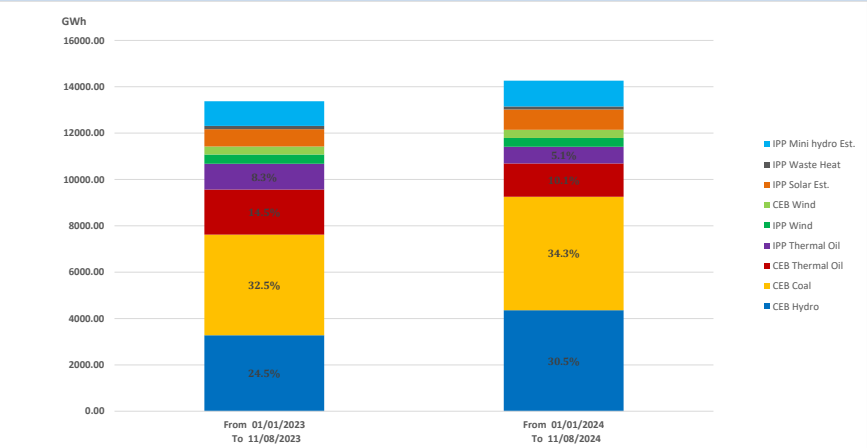


4. Variation of Demand during the current year



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 11/08/2023 13372 GWh
From 01/01/2024 To 11/08/2024 14266 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