

Generation and Reservoirs Statistics

November 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 23, 2024

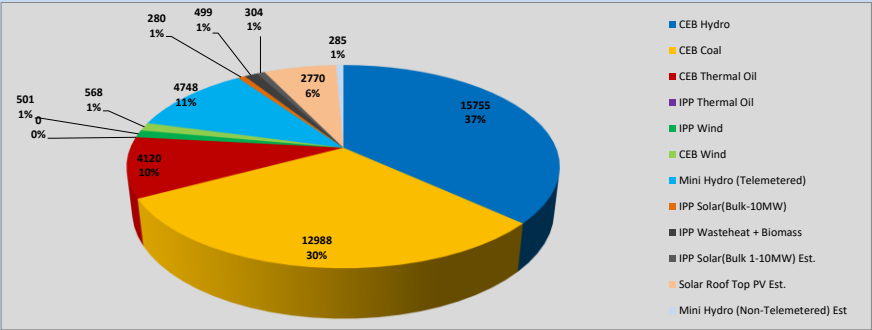


Table 01

	Generation (MWh)
CEB Hydro	15,755
CEB Coal	12,988
CEB Thermal Oil	4,120
IPP Thermal Oil	-
IPP Wind	501
CEB Wind	568
Mini Hydro (Telemetered)	4,748
IPP Solar (Bulk)	280
IPP Waste heat + Biomass	499
Total Generation (Excluding estimated figures)	39,459
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	285
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	42,818

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	349	34.54%
CEB Coal	286	28.30%
CEB Thermal Oil	104	10.27%
IPP Thermal	38	3.73%
IPP Wind	7	0.73%
CEB Wind	10	1.03%
Mini Hydro *	128	12.67%
IPP Solar *	78	7.71%
IPP Waste heat + BMP	10	1.03%
Total	1,012	

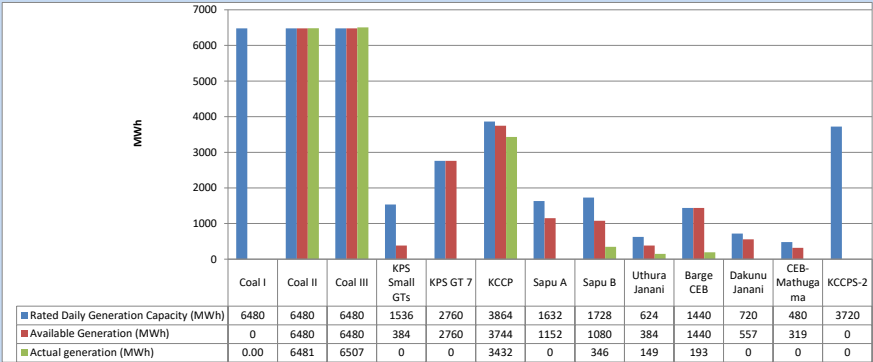
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,590	30.76%
CEB Coal	5,084	34.08%
CEB Thermal Oil	1,503	10.07%
IPP Thermal	735	4.93%
IPP Wind	384	2.57%
CEB Wind	358	2.40%
Mini Hydro *	1,198	8.03%
IPP Solar *	930	6.23%
IPP Waste heat	138	0.92%
Total	14,919	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 23, 2024

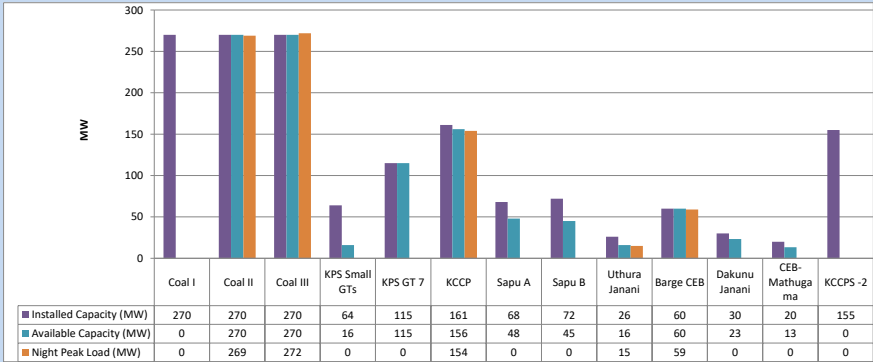


Available Generation is estimated based on plant availability at 6.00am on

November 24, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 23, 2024

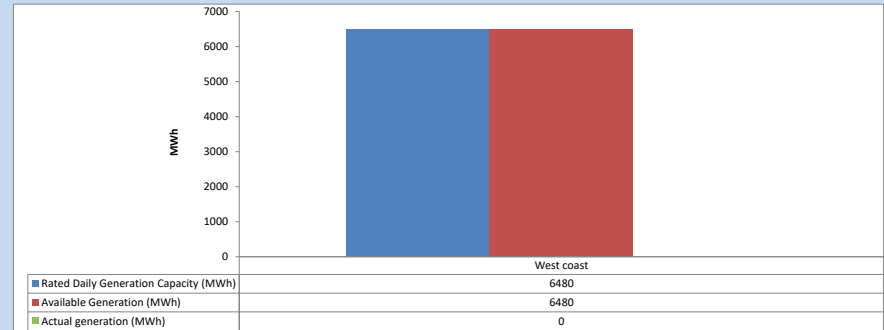


Plant availability is recorded at 6.00 am on

November 24, 2024

1.4 IPP owned Thermal Plant Dispatch

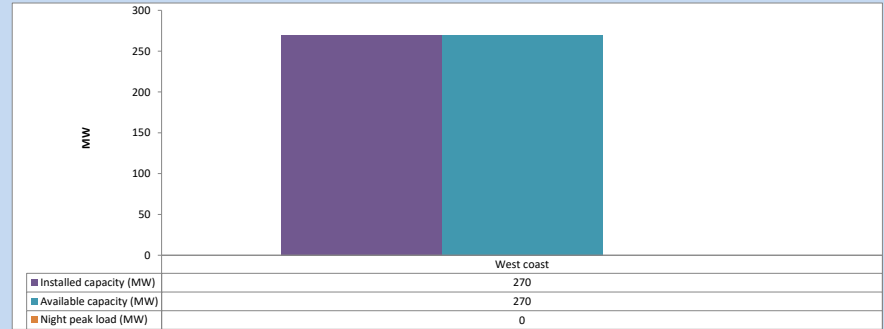
November 23, 2024



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

November 24, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

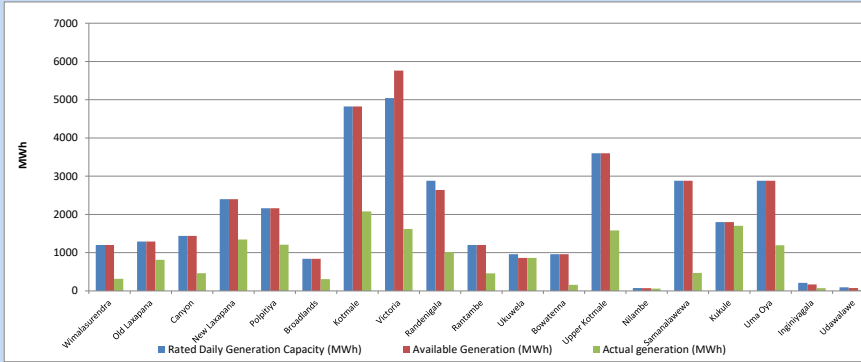


Plant availability is recorded at 6.00 am on

November 24, 2024

1.6 Major Hydro Plant Dispatch

November 23, 2024

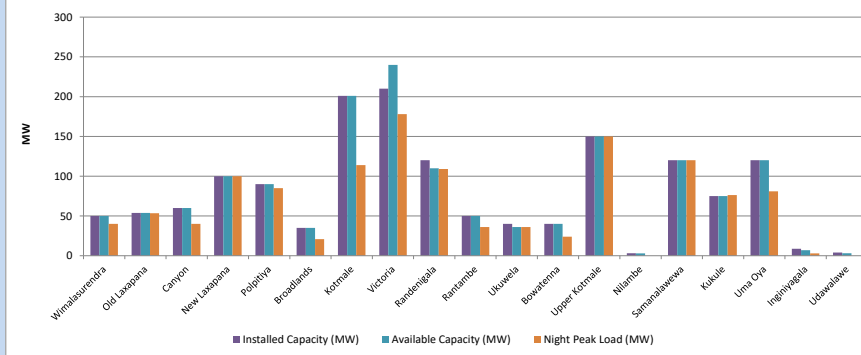


Available Generation is estimated based on plant availability at 6.00am on

November 24, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 23, 2024



Plant availability is recorded at 6.00 am on

November 24, 2024

1.8 Summary of Major Plant performance

November 23, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	40	315
Old Laxapana	54	54	53	814
Canyon	60	60	40	463
New Laxapana	100	100	100	1,345
Polpitiya	90	90	85	1,210
Broadlands	35	35	21	308
Kotmale	201	201	114	2,080
Victoria	210	240	178	1,618
Randenigala	120	110	109	1,017
Rantambe	50	50	36	460
Ukuwela	40	36	36	863
Bowatenna	40	40	24	160
Upper Kotmale	150	150	150	1,582
Nilambe	3	3	0	59
Samanalawewa	120	120	120	471
Kukule	75	75	76	1,702
Uma Oya	120	120	81	1,194
Inginigala	9	7	3	70
Udawalawe	4	3	0	26
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,481
Puttalam Coal III	270	270	272	6,507
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	154	3,432
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	45	0	346
Uthura Janani	26	16	15	149
Barge CEB	60	60	59	193
CEB-Hambantota	30	23	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	3,058	2,270	39,461

Note-

Plant availability is the availability recorded at 6 am on

November 24, 2024

1.9 Contribution to the Night Peak in MW

November 23, 2024

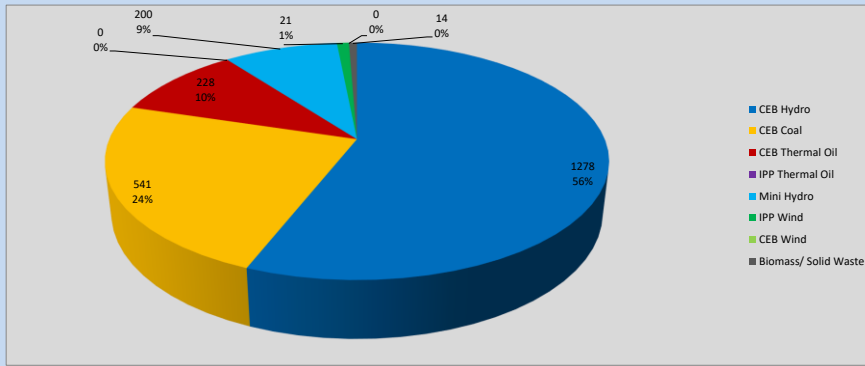


Table 05

CEB Hydro	1278	MW
CEB Coal	541	MW
CEB Thermal Oil	228	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	200	MW
IPP Wind	21	MW
CEB Wind	0	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

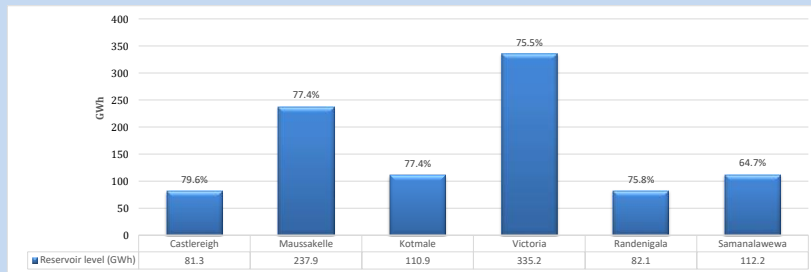
Table 06

Night Peak*	2,282	MW
Day Peak Maximum Demand	1,950	MW
Day Peak Minimum Demand	1,319	MW
Off Peak Minimum Demand	1,295	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 24, 2024



Total Reservoir Level
% of Total capacity

959.6 GWh
75.1%

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

November 23, 2024

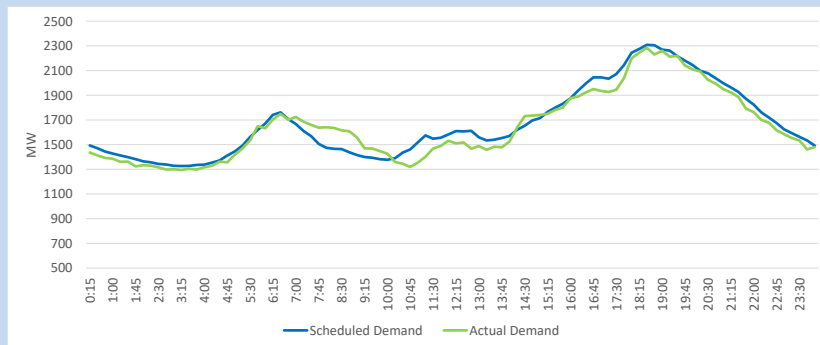
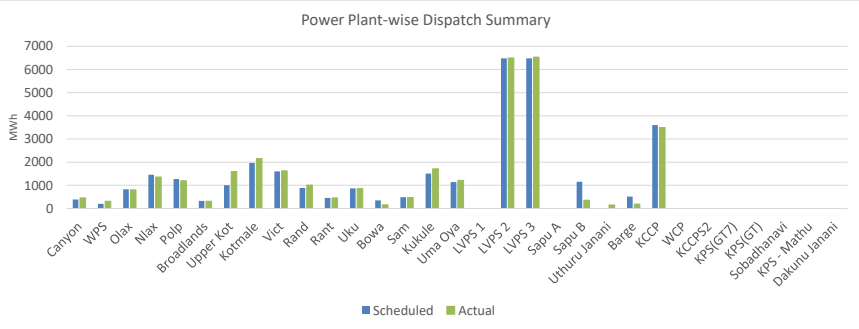


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,723	15,697	974
CEB Coal	12,960	13,033	73
CEB Thermal Oil	5,264	4,196	(1,069)
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	7,112	6,510	(603)
Total	40,059	39,435	(625)

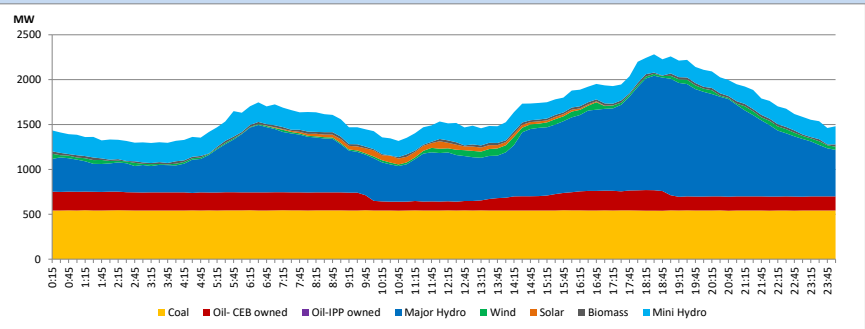
1.12 Power Plant-wise Dispatch Summary

November 23, 2024



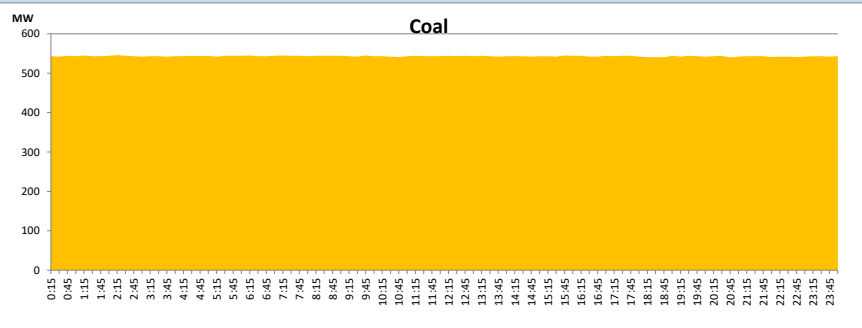
1.13 Daily Load Curve

November 23, 2024



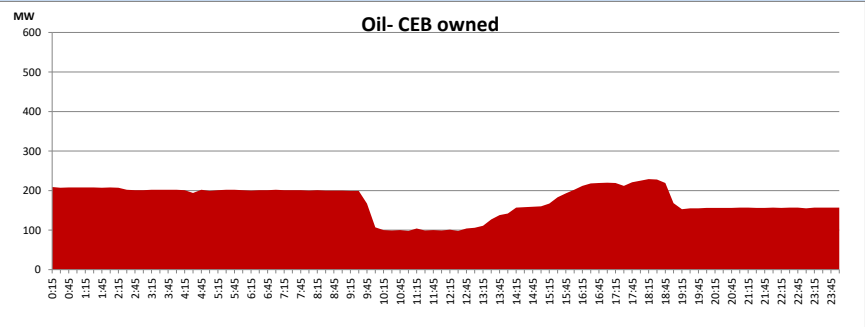
Coal Generation during

November 23, 2024



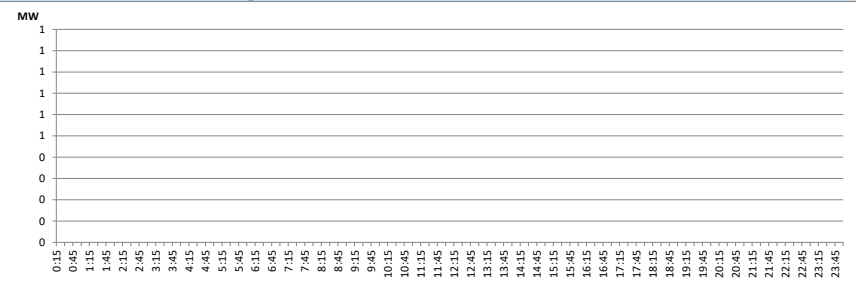
CEB Oil Plant Generation during

November 23, 2024



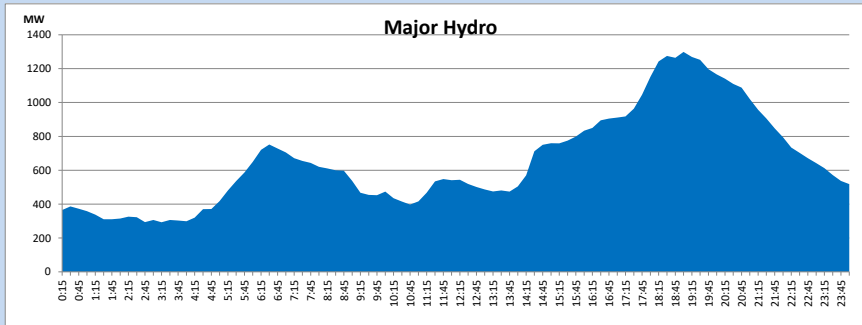
IPP Oil Plant Generation during

November 23, 2024



Major Hydro Generation during

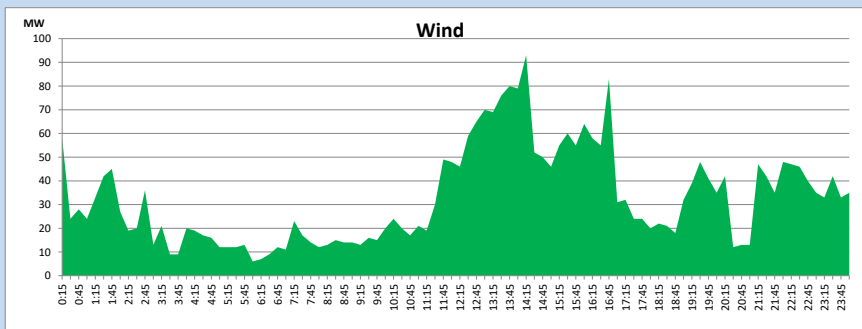
November 23, 2024



Wind Generation during

November 23, 2024

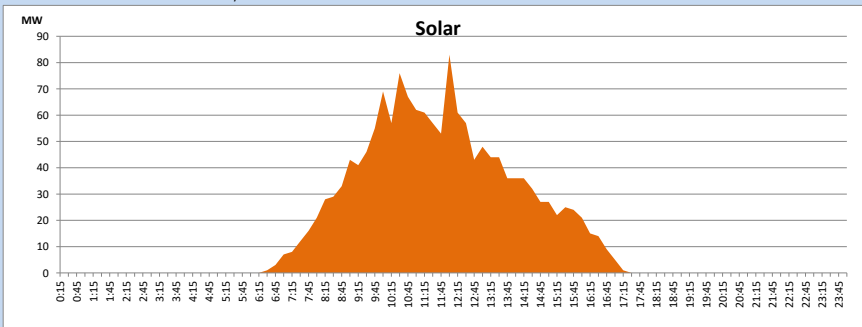
Based on Telemetered Power Stations only



Solar Generation during

November 23, 2024

Based on Telemetered Power Stations only

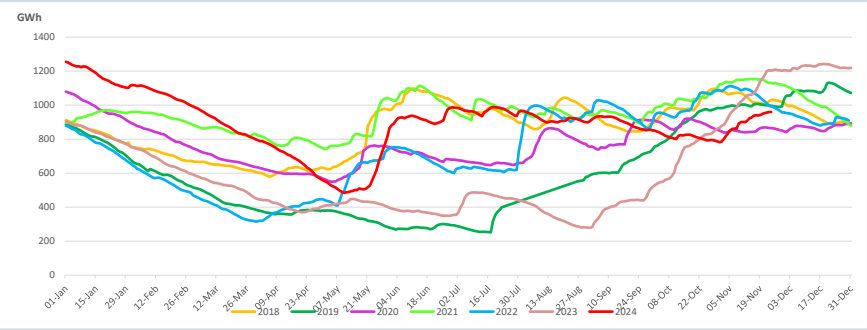


1.14 Major Incidents reported during the day

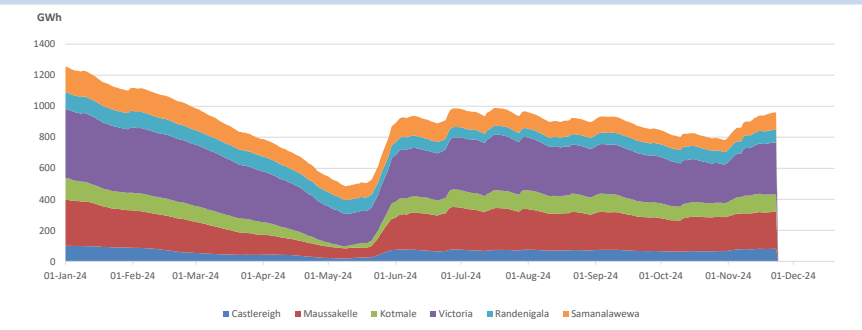
November 23, 2024

1) Polpitiya unit 02, which was tripped on 22.11.2024, resumed generation at 11:12hrs.

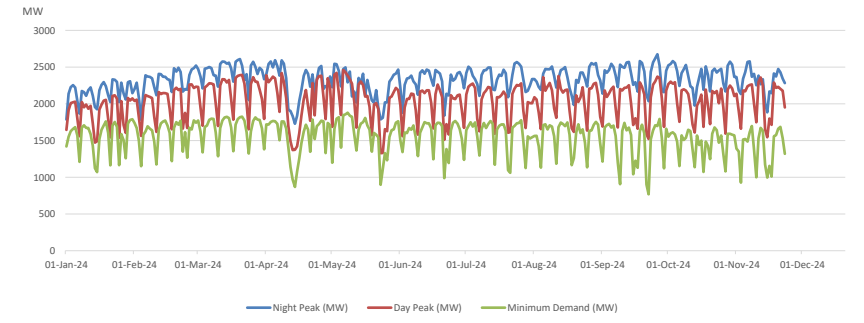
2. Comparison of Total Reservoir Storage Levels with Past Years



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

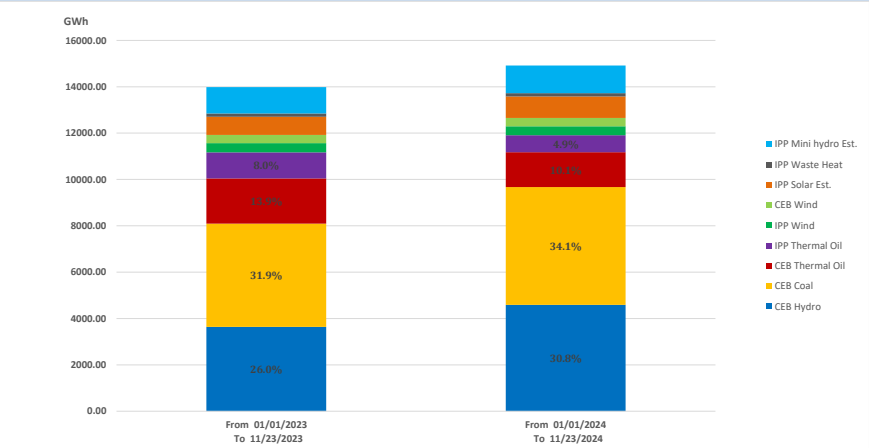


4. Variation of Demand during the current year



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 11/23/2023 13982 GWh
From 01/01/2024 To 11/23/2024 14919 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