

Generation and Reservoirs Statistics

November 24, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 24, 2024

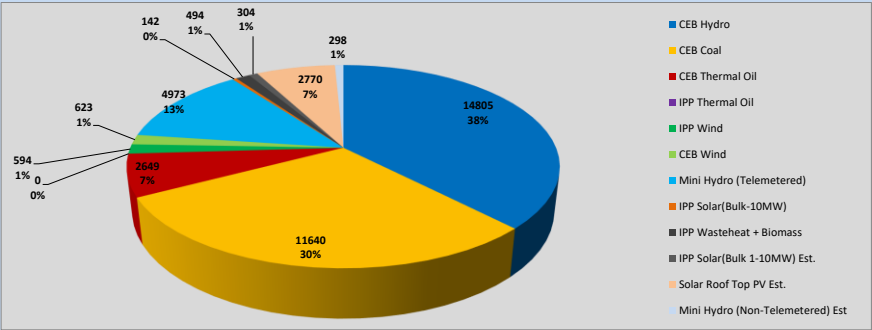


Table 01

	Generation (MWh)
CEB Hydro	14,805
CEB Coal	11,640
CEB Thermal Oil	2,649
IPP Thermal Oil	-
IPP Wind	594
CEB Wind	623
Mini Hydro (Telemetered)	4,973
IPP Solar (Bulk)	142
IPP Waste heat + Biomass	494
Total Generation (Excluding estimated figures)	35,920
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	298
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	39,292

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	364	34.65%
CEB Coal	298	28.35%
CEB Thermal Oil	107	10.14%
IPP Thermal	38	3.59%
IPP Wind	8	0.76%
CEB Wind	11	1.05%
Mini Hydro *	133	12.69%
IPP Solar *	81	7.72%
IPP Waste heat + BMP	11	1.04%
Total	1,051	

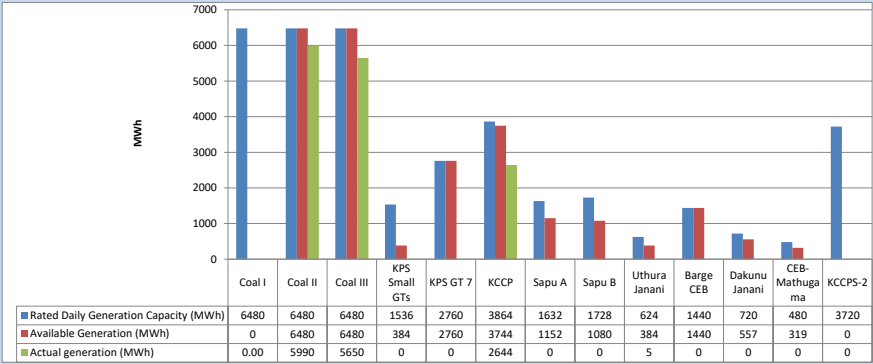
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,604	30.78%
CEB Coal	5,095	34.06%
CEB Thermal Oil	1,506	10.07%
IPP Thermal	735	4.92%
IPP Wind	384	2.57%
CEB Wind	359	2.40%
Mini Hydro *	1,203	8.04%
IPP Solar *	933	6.24%
IPP Waste heat	138	0.92%
Total	14,959	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 24, 2024

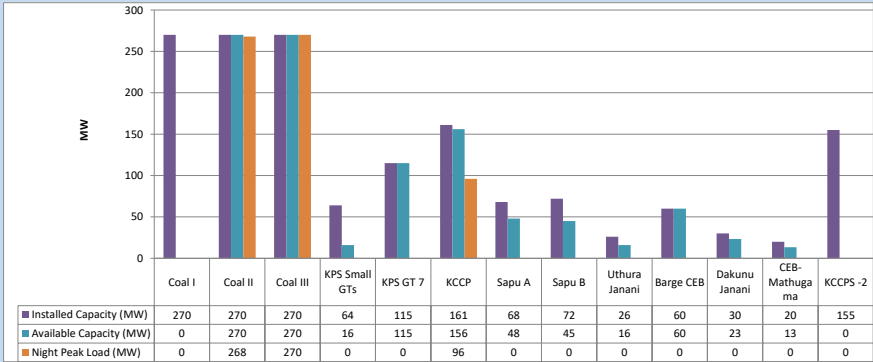


Available Generation is estimated based on plant availability at 6.00am on

November 25, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 24, 2024

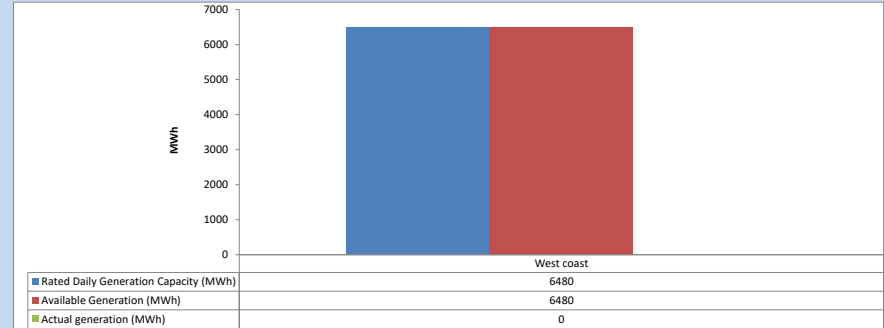


Plant availability is recorded at 6.00 am on

November 25, 2024

1.4 IPP owned Thermal Plant Dispatch

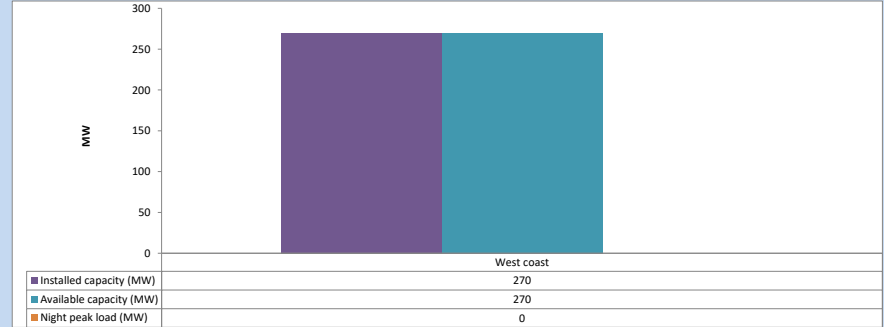
November 24, 2024



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

November 25, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

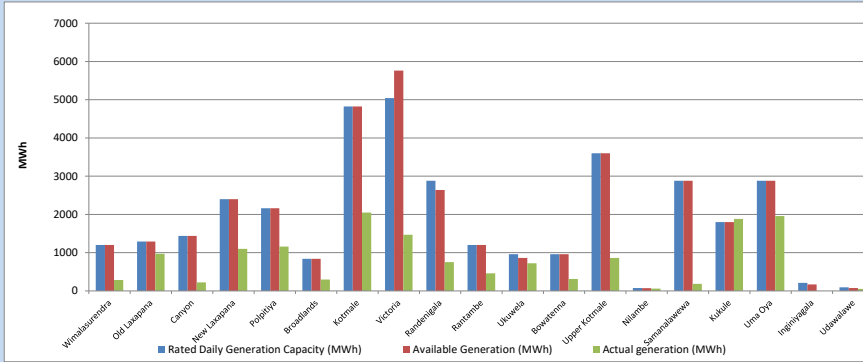


Plant availability is recorded at 6.00 am on

November 25, 2024

1.6 Major Hydro Plant Dispatch

November 24, 2024

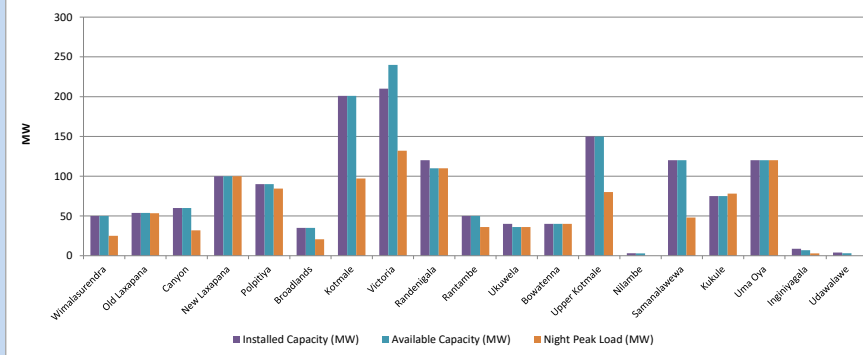


Available Generation is estimated based on plant availability at 6.00am on

November 25, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 24, 2024



Plant availability is recorded at 6.00 am on

November 25, 2024

1.8 Summary of Major Plant performance

November 24, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	25	286
Old Laxapana	54	54	53	973
Canyon	60	60	32	223
New Laxapana	100	100	100	1,098
Polpitiya	90	90	84	1,160
Broadlands	35	35	21	299
Kotmale	201	201	97	2,050
Victoria	210	240	132	1,467
Randenigala	120	110	110	752
Rantambe	50	50	36	460
Ukuwela	40	36	36	724
Bowatenna	40	40	40	314
Upper Kotmale	150	150	80	863
Nilambe	3	3	0	60
Samanalawewa	120	120	48	184
Kukule	75	75	78	1,881
Uma Oya	120	120	120	1,959
Inginigala	9	7	3	0
Udawalawe	4	3	0	52
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	5,990
Puttalam Coal III	270	270	270	5,650
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	96	2,644
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	45	0	0
Uthura Janani	26	16	0	5
Barge CEB	60	60	0	0
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	2,037	35,920

Note-

Plant availability is the availability recorded at 6 am on

November 25, 2024

1.9 Contribution to the Night Peak in MW

November 24, 2024

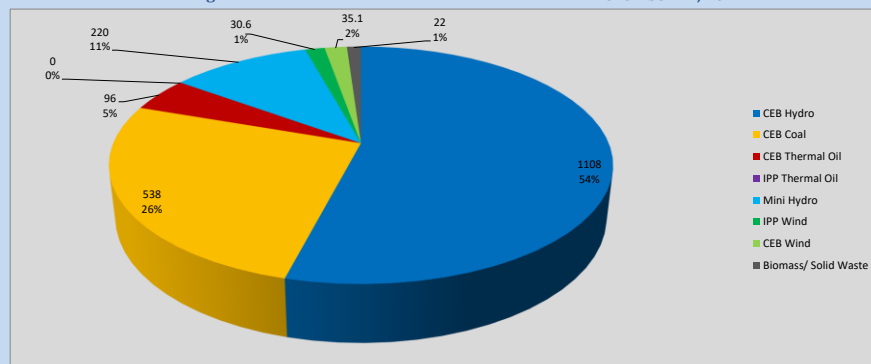


Table 05

CEB Hydro	1108	MW
CEB Coal	538	MW
CEB Thermal Oil	96	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	220	MW
IPP Wind	30.6	MW
CEB Wind	35.1	MW
Biomass/ Solid Waste	22	MW

Recorded Peak Demand Data

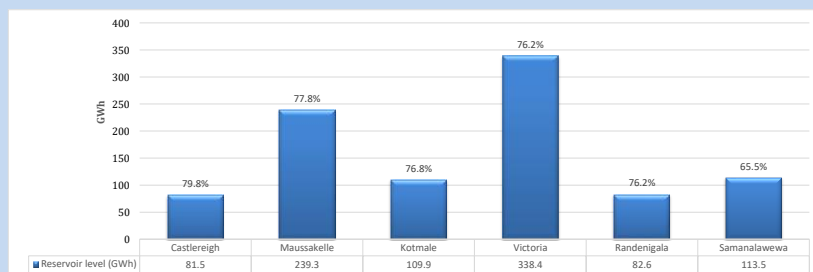
Table 06

Night Peak*	2,050	MW
Day Peak Maximum Demand	1,727	MW
Day Peak Minimum Demand	1,218	MW
Off Peak Minimum Demand	1,261	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 25, 2024



Total Reservoir Level
% of Total capacity

965.2 GWh
75.5%

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

November 24, 2024

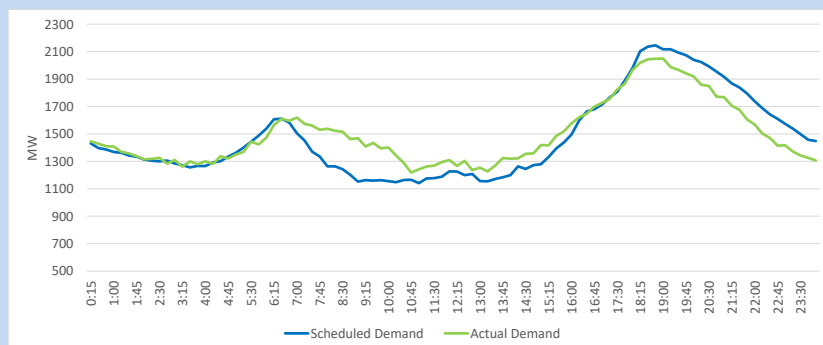
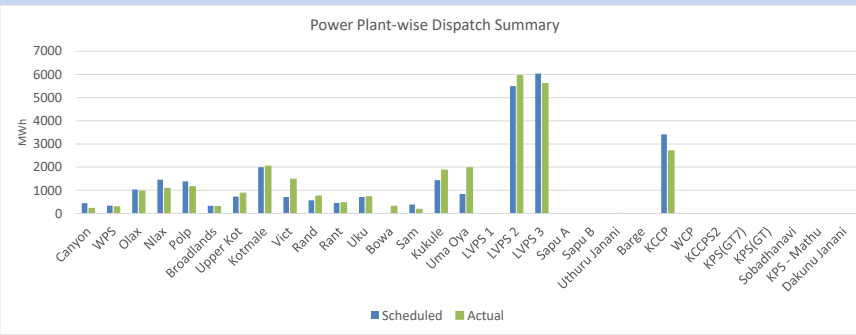


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,824	14,805	1,981
CEB Coal	11,530	11,640	110
CEB Thermal Oil	3,414	2,649	(765)
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	7,654	6,826	(828)
Total	35,422	35,920	498

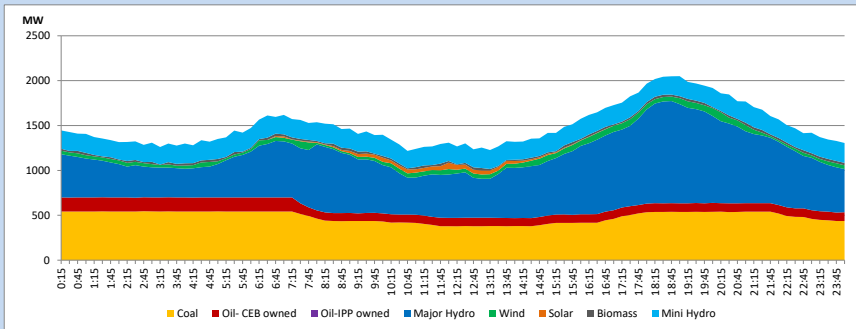
1.12 Power Plant-wise Dispatch Summary

November 24, 2024



1.13 Daily Load Curve

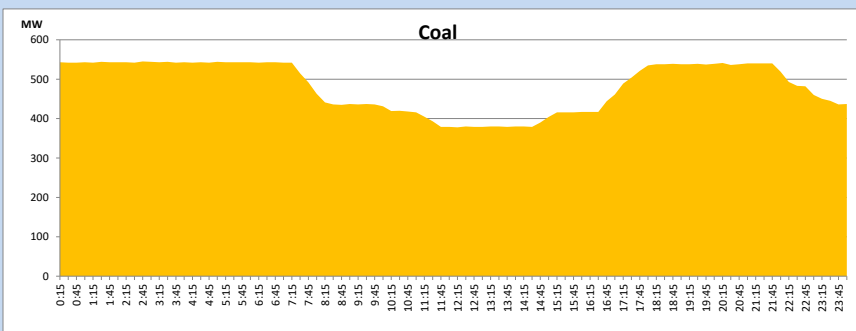
November 24, 2024



Solar and wind data is based on Telemetered Power Stations only

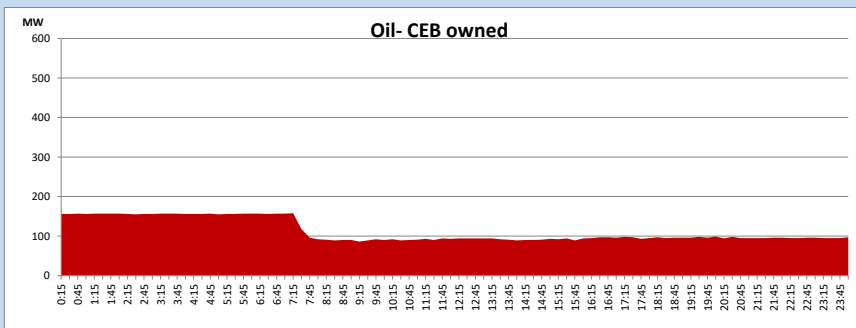
Coal Generation during

November 24, 2024



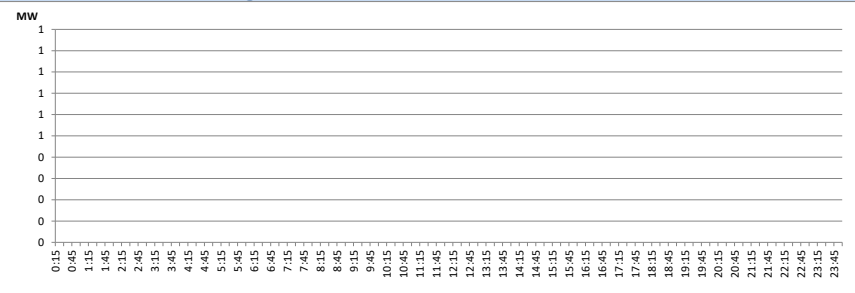
CEB Oil Plant Generation during

November 24, 2024



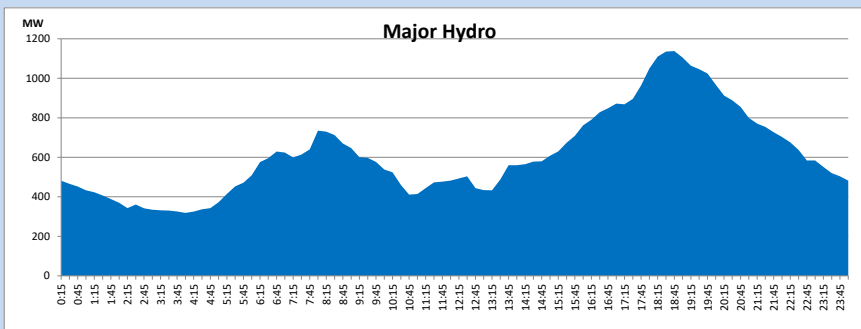
IPP Oil Plant Generation during

November 24, 2024



Major Hydro Generation during

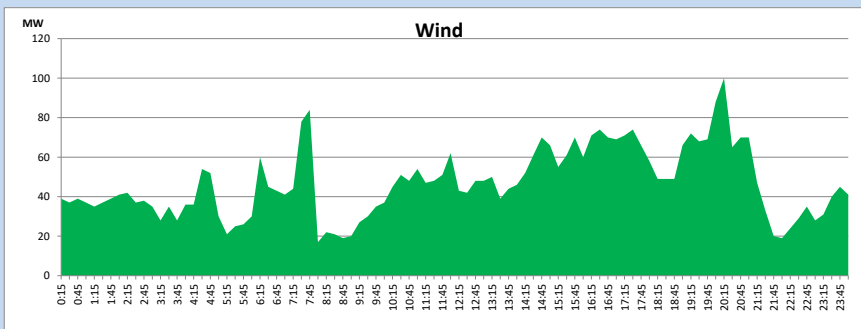
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Wind Generation during

November 24, 2024

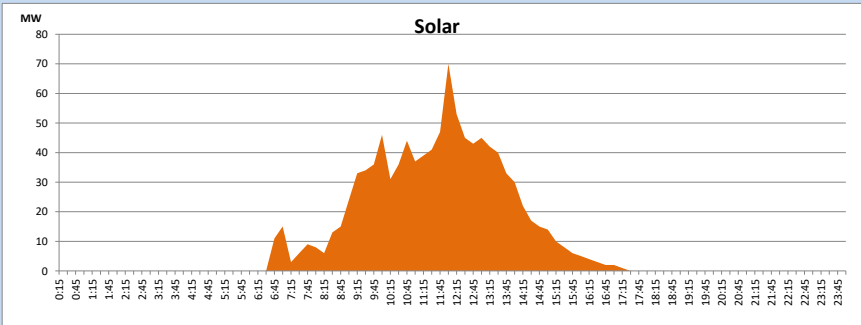
Based on Telemetered Power Stations only



Solar Generation during

November 24, 2024

Based on Telemetered Power Stations only

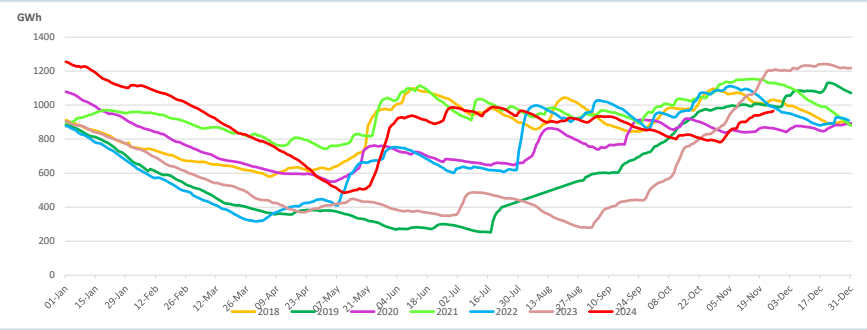


1.14 Major Incidents reported during the day

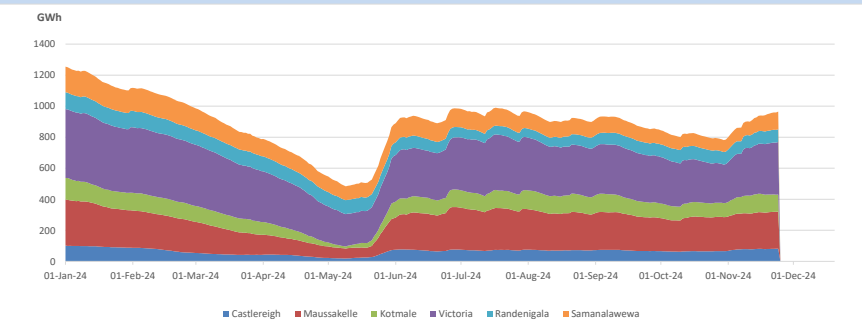
November 24, 2024

1) Nil

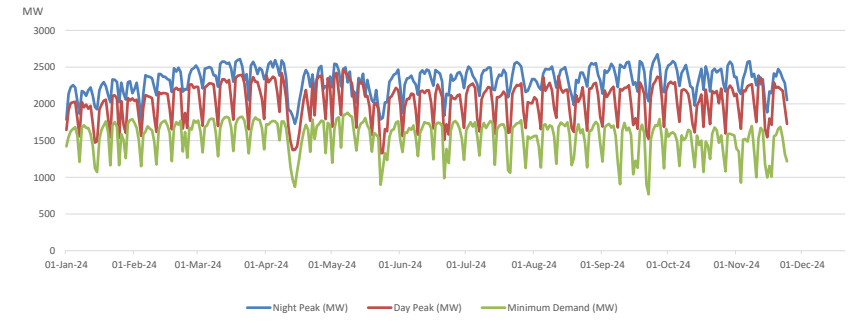
2. Comparison of Total Reservoir Storage Levels with Past Years



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

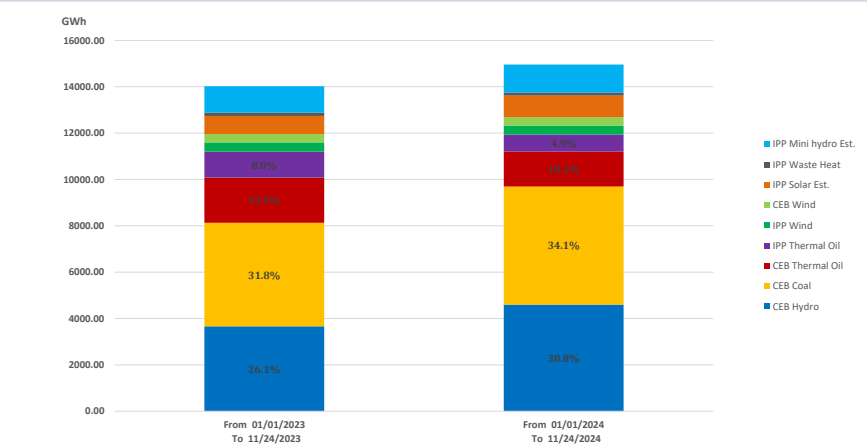


4. Variation of Demand during the current year



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 11/24/2023 14024 GWh
From 01/01/2024 To 11/24/2024 14959 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