

Generation and Reservoirs Statistics

December 10, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 10, 2024

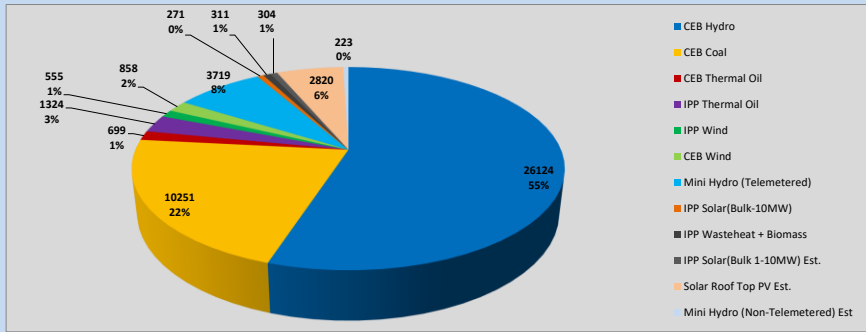


Table 01

	Generation (MWh)
CEB Hydro	26,124
CEB Coal	10,251
CEB Thermal Oil	699
IPP Thermal Oil	1,324
IPP Wind	555
CEB Wind	858
Mini Hydro (Telemetered)	3,719
IPP Solar (Bulk)	271
IPP Waste heat + Biomass	311
Total Generation (Excluding estimated figures)	44,112
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	223
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	47,459

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	251	55.52%
CEB Coal	89	19.63%
CEB Thermal Oil	5	1.07%
IPP Thermal	9	1.90%
IPP Wind	6	1.36%
CEB Wind	5	1.19%
Mini Hydro *	49	10.87%
IPP Solar *	34	7.52%
IPP Waste heat + BMP	4	0.94%
Total	452	

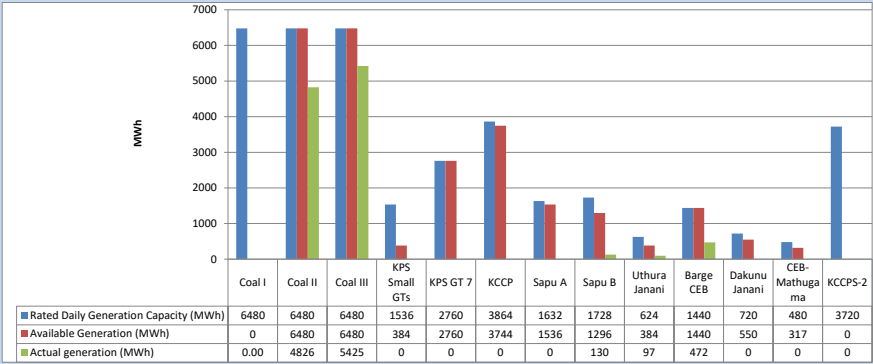
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,989	31.76%
CEB Coal	5,239	33.35%
CEB Thermal Oil	1,517	9.66%
IPP Thermal	744	4.74%
IPP Wind	390	2.48%
CEB Wind	371	2.36%
Mini Hydro *	1,304	8.30%
IPP Solar *	1,006	6.40%
IPP Waste heat	150	0.96%
Total	15,710	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 10, 2024

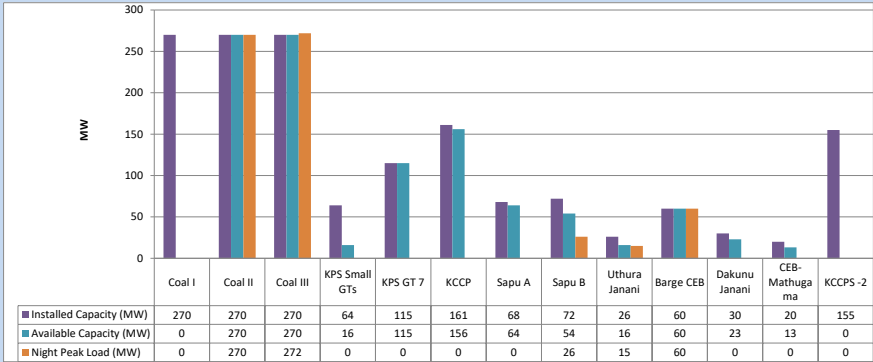


Available Generation is estimated based on plant availability at 6.00am on

December 11, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 10, 2024

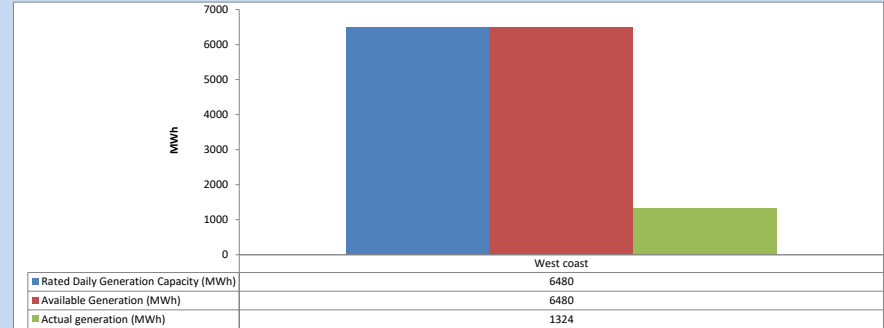


Plant availability is recorded at 6.00 am on

December 11, 2024

1.4 IPP owned Thermal Plant Dispatch

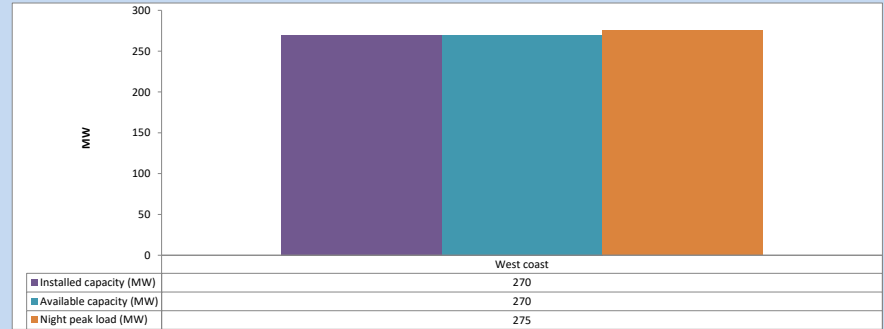
December 10, 2024



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

December 11, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

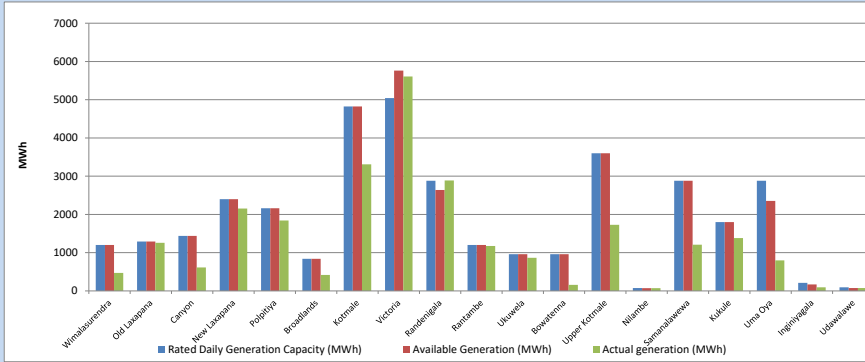


Plant availability is recorded at 6.00 am on

December 11, 2024

1.6 Major Hydro Plant Dispatch

December 10, 2024

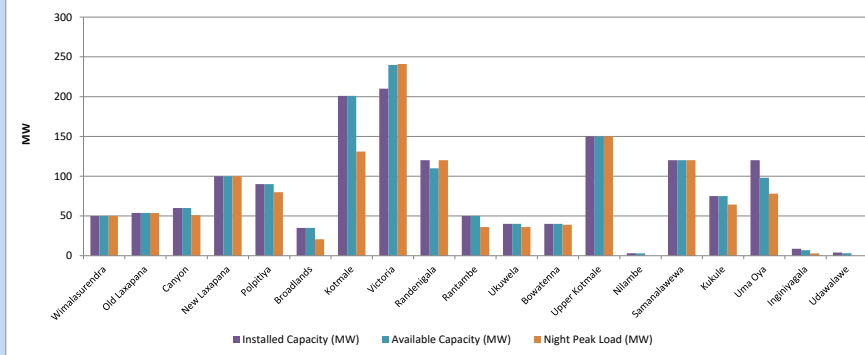


Available Generation is estimated based on plant availability at 6.00am on

December 11, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 10, 2024



Plant availability is recorded at 6.00 am on

December 11, 2024

1.8 Summary of Major Plant performance

December 10, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	469
Old Laxapana	54	54	54	1,259
Canyon	60	60	51	614
New Laxapana	100	100	100	2,152
Polpitiya	90	90	80	1,840
Broadlands	35	35	21	418
Kotmale	201	201	131	3,310
Victoria	210	240	241	5,608
Randenigala	120	110	120	2,889
Rantambe	50	50	36	1,176
Ukuwela	40	40	36	868
Bowatenna	40	40	39	159
Upper Kotmale	150	150	150	1,730
Nilambe	3	3	0	73
Samanalawewa	120	120	120	1,209
Kukule	75	75	64	1,382
Uma Oya	120	98	78	798
Inginigala	9	7	3	95
Udawalawe	4	3	0	75
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	4,826
Puttalam Coal III	270	270	272	5,425
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	64	0	0
Sapugaskanda B	72	54	26	130
Uthura Janani	26	16	15	97
Barge CEB	60	60	60	472
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	275	1,324
Sobadhanavi	220	212	0	0
Total	3,602	2,853	2,597	44,112

Note-

Plant availability is the availability recorded at 6 am on

December 11, 2024

1.9 Contribution to the Night Peak in MW

December 10, 2024

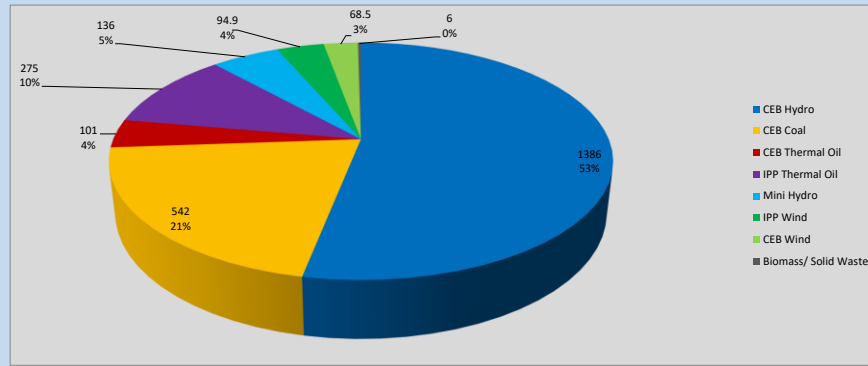


Table 05

CEB Hydro	1386	MW
CEB Coal	542	MW
CEB Thermal Oil	101	MW
IPP Thermal Oil	275	MW
Mini Hydro (Telemetered)	136	MW
IPP Wind	95	MW
CEB Wind	69	MW
Biomass/ Solid Waste	6	MW

Recorded Peak Demand Data

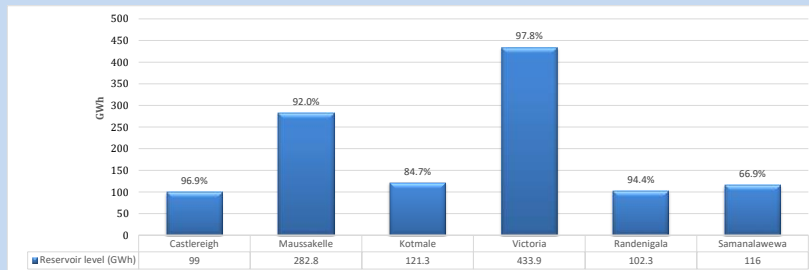
Table 06

Night Peak*	2,610	MW
Day Peak Maximum Demand	2,255	MW
Day Peak Minimum Demand	1,598	MW
Off Peak Minimum Demand	1,392	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 December 11, 2024



Total Reservoir Level
% of Total capacity

1155.3 GWh
90.4%

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

December 10, 2024

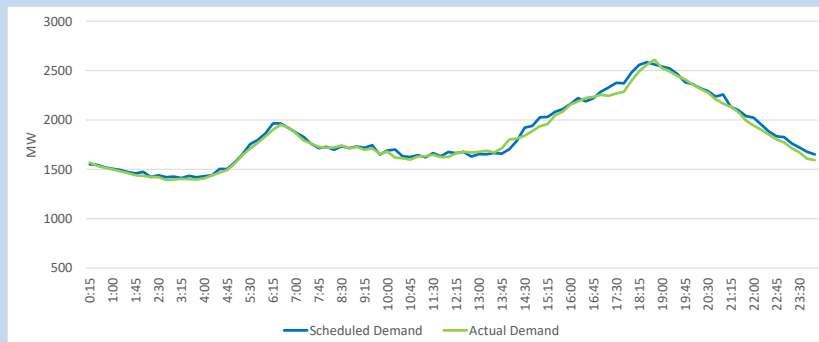
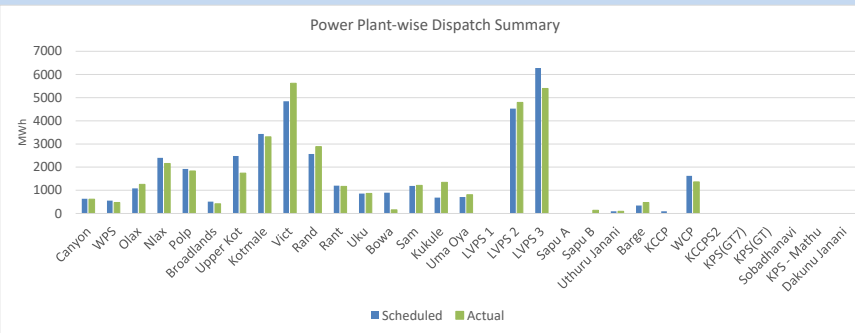


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	25,974	26,124	150
CEB Coal	10,802	10,251	(551)
CEB Thermal Oil	541	699	158
IPP Thermal Oil	1,621	1,324	(297)
NCRE (excluding non telemetered power plants)	5,462	5,714	252
Total	44,400	44,112	(288)

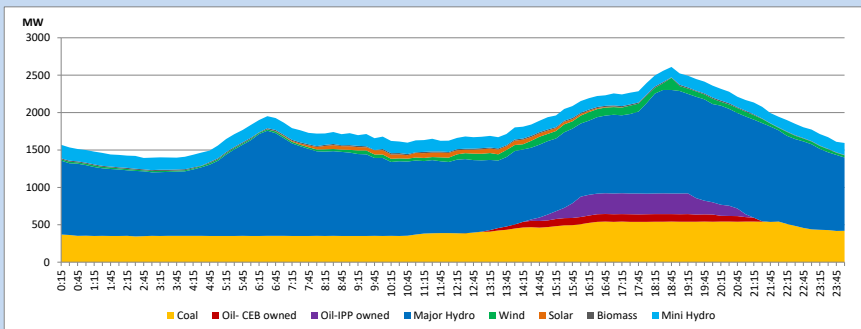
1.12 Power Plant-wise Dispatch Summary

December 10, 2024



1.13 Daily Load Curve

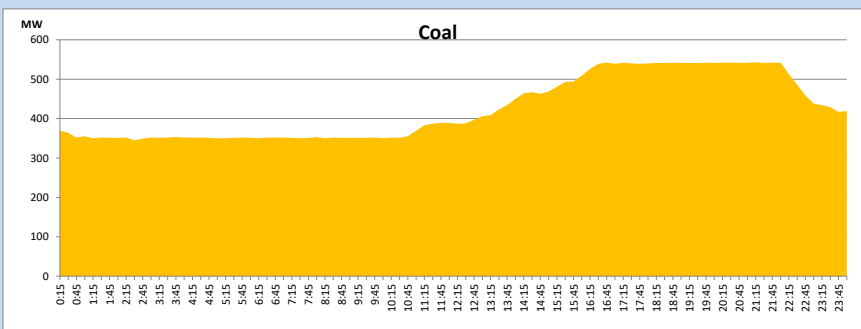
December 10, 2024



Solar and wind data is based on Telemetered Power Stations only

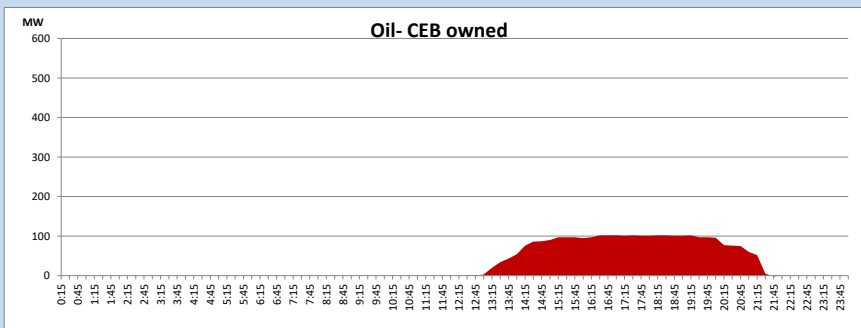
Coal Generation during

December 10, 2024



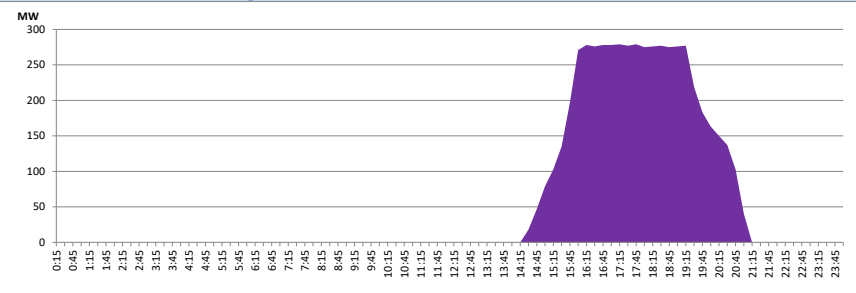
CEB Oil Plant Generation during

December 10, 2024



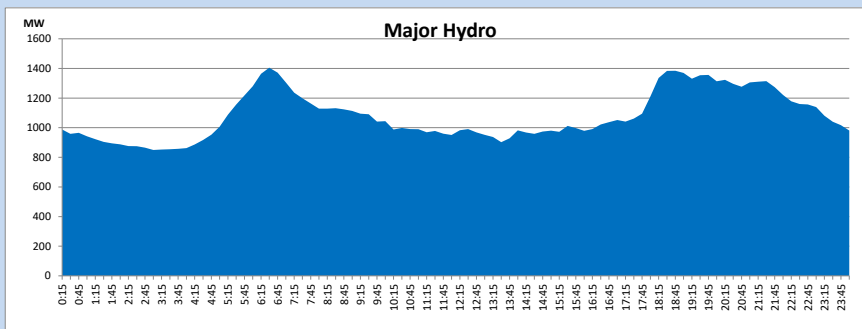
IPP Oil Plant Generation during

December 10, 2024



Major Hydro Generation during

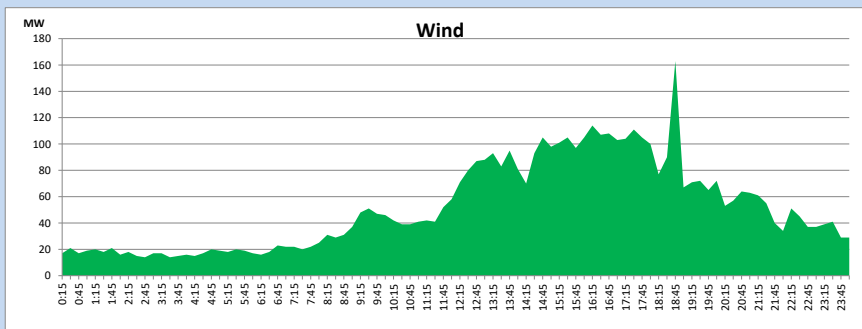
December 10, 2024



Wind Generation during

December 10, 2024

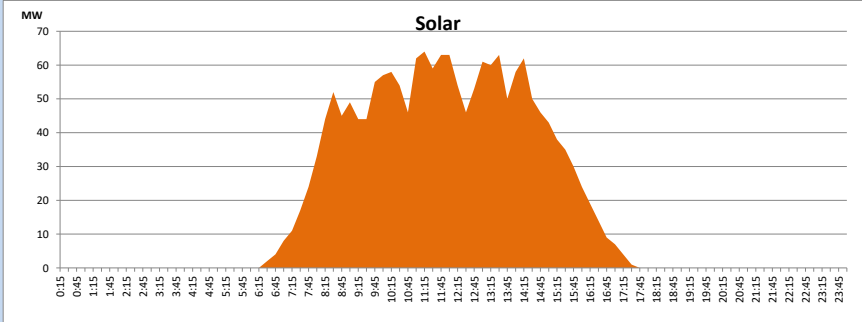
Based on Telemetered Power Stations only



Solar Generation during

December 10, 2024

Based on Telemetered Power Stations only

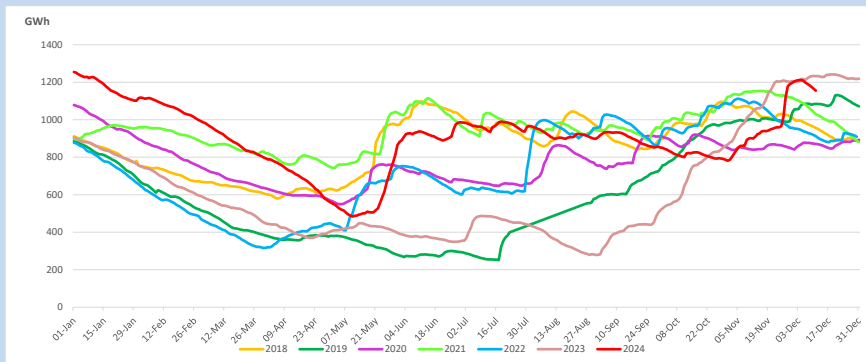


1.14 Major Incidents reported during the day

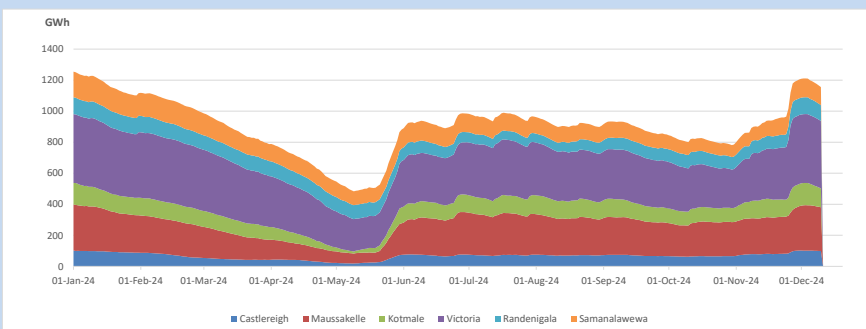
December 10, 2024

Nil

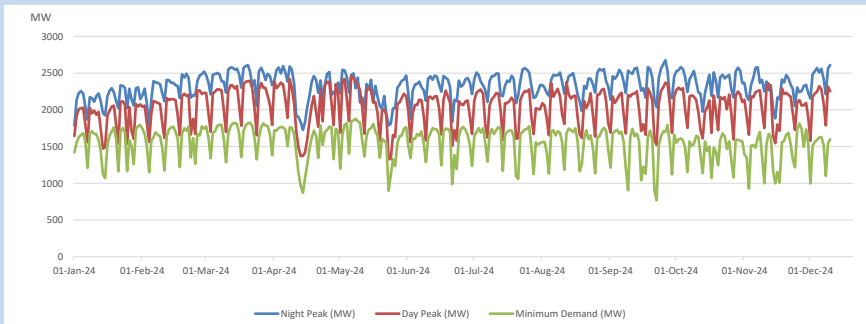
2. Comparison of Total Reservoir Storage Levels with Past Years



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

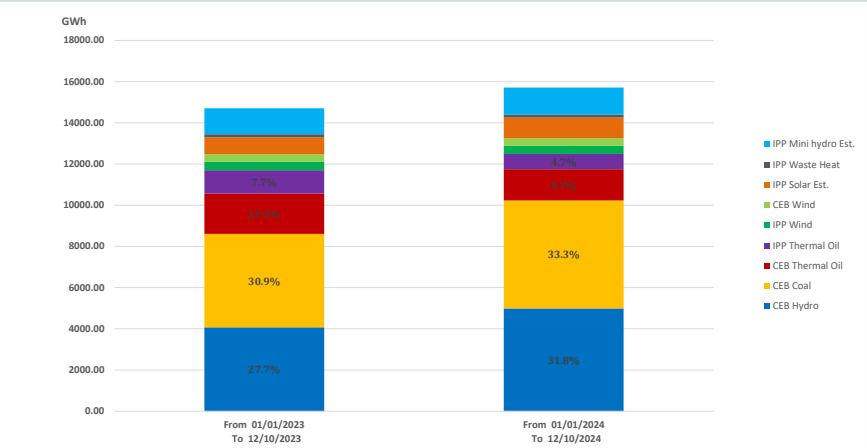


4. Variation of Demand during the current year



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 12/10/2023 14704 GWh
From 01/01/2024 To 12/10/2024 15710 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 Capcity

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) -CEB	495
Rooftop Solar (LT Bulk) -CEB	338
Rooftop Solar (HT Bulk)- CEB	104
Rooftop Solar - LECO	245

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities