

Generation and Reservoirs Statistics

December 16, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 16, 2024

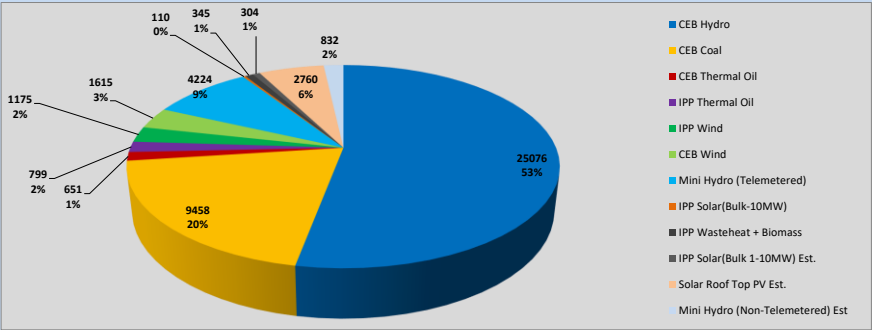


Table 01

	Generation (MWh)
CEB Hydro	25,076
CEB Coal	9,458
CEB Thermal Oil	651
IPP Thermal Oil	799
IPP Wind	1,175
CEB Wind	1,615
Mini Hydro (Telemetered)	4,224
IPP Solar (Bulk)	110
IPP Waste heat + Biomass	345
Total Generation (Excluding estimated figures)	43,453
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	832
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	47,349

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	390	53.90%
CEB Coal	153	21.19%
CEB Thermal Oil	8	1.16%
IPP Thermal	13	1.84%
IPP Wind	11	1.50%
CEB Wind	11	1.54%
Mini Hydro *	76	10.54%
IPP Solar *	54	7.47%
IPP Waste heat + BMP	6	0.88%
Total	724	

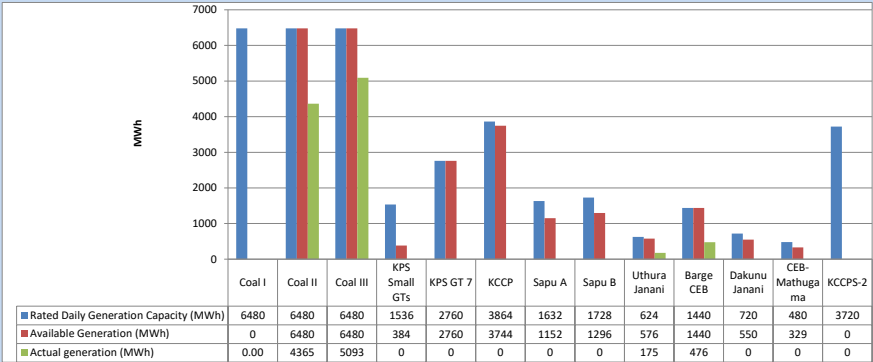
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,128	32.09%
CEB Coal	5,304	33.19%
CEB Thermal Oil	1,521	9.51%
IPP Thermal	749	4.68%
IPP Wind	394	2.47%
CEB Wind	377	2.36%
Mini Hydro *	1,331	8.33%
IPP Solar *	1,026	6.42%
IPP Waste heat	152	0.95%
Total	15,982	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 16, 2024

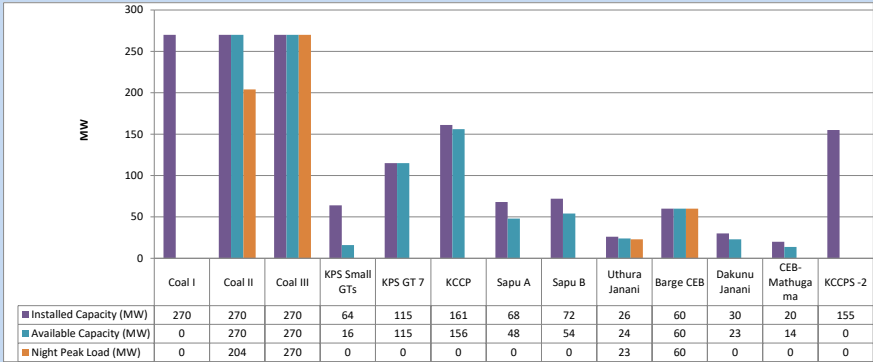


Available Generation is estimated based on plant availability at 6.00am on

December 17, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 16, 2024

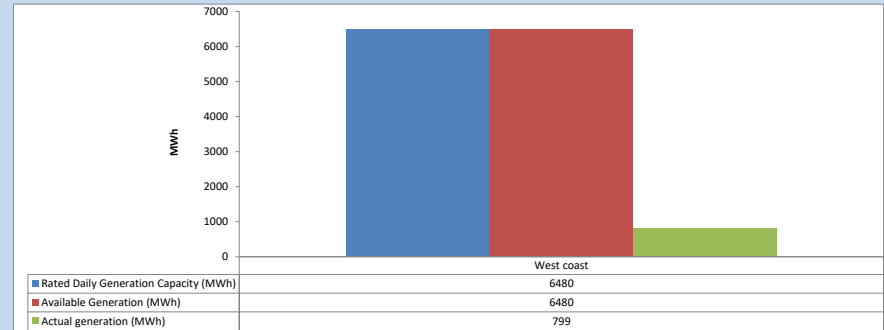


Plant availability is recorded at 6.00 am on

December 17, 2024

1.4 IPP owned Thermal Plant Dispatch

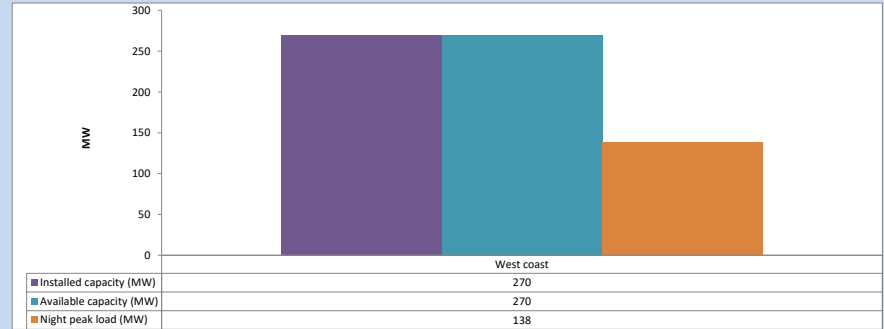
December 16, 2024



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

December 17, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

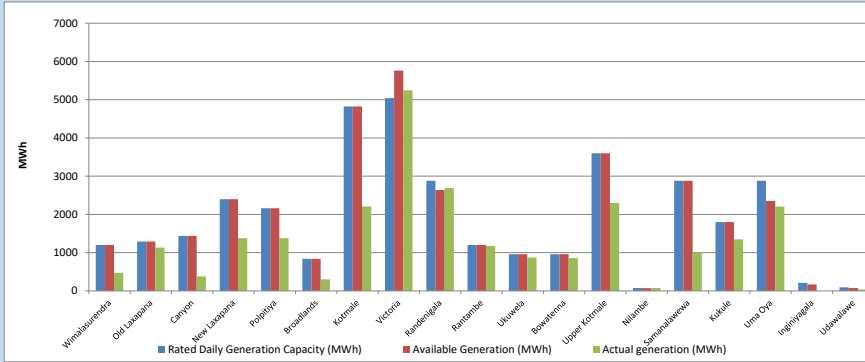


Plant availability is recorded at 6.00 am on

December 17, 2024

1.6 Major Hydro Plant Dispatch

December 16, 2024

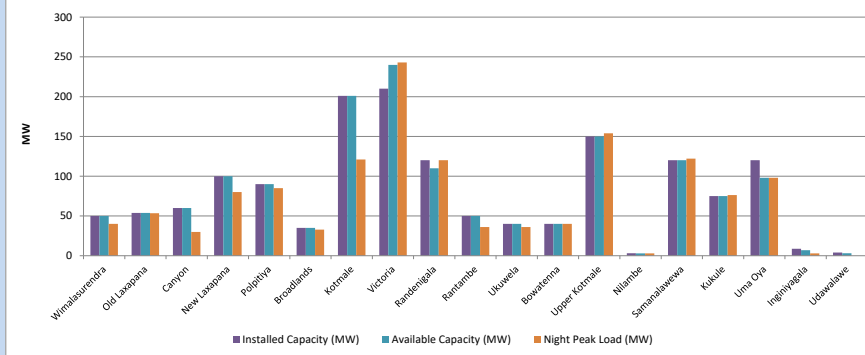


Available Generation is estimated based on plant availability at 6.00am on

December 17, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 16, 2024



Plant availability is recorded at 6.00 am on

December 17, 2024

1.8 Summary of Major Plant performance

December 16, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	40	475
Old Laxapana	54	54	53	1,135
Canyon	60	60	30	379
New Laxapana	100	100	80	1,378
Polpitiya	90	90	85	1,380
Broadlands	35	35	33	303
Kotmale	201	201	121	2,210
Victoria	210	240	243	5,245
Randenigala	120	110	120	2,694
Rantambe	50	50	36	1,175
Ukuwela	40	40	36	873
Bowatenna	40	40	40	860
Upper Kotmale	150	150	154	2,299
Nilambe	3	3	3	76
Samanalawewa	120	120	122	1,004
Kukule	75	75	76	1,349
Uma Oya	120	98	98	2,205
Inginigala	9	7	3	0
Udawalawe	4	3	0	37
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	204	4,365
Puttalam Coal III	270	270	270	5,093
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	23	175
Barge CEB	60	60	60	476
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	138	799
Sobadhanavi	220	212	0	0
Total	3,602	2,846	2,384	43,454

Note-

Plant availability is the availability recorded at 6 am on

December 17, 2024

1.9 Contribution to the Night Peak in MW

December 16, 2024

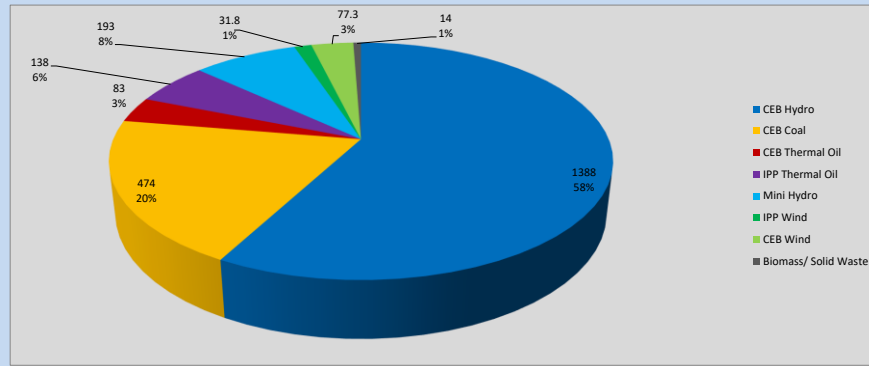


Table 05

CEB Hydro	1,388	MW
CEB Coal	474	MW
CEB Thermal Oil	83	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	193	MW
IPP Wind	31.8	MW
CEB Wind	77.3	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

Table 06

Night Peak*	2,399	MW
Day Peak Maximum Demand	2,215	MW
Day Peak Minimum Demand	1,724	MW
Off Peak Minimum Demand	1,249	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 17, 2024



Total Reservoir Level
% of Total capacity

1,158 GWh
90.6%

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

December 16, 2024

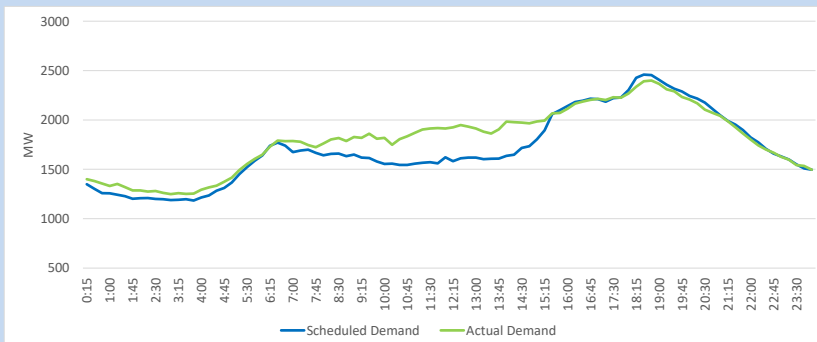
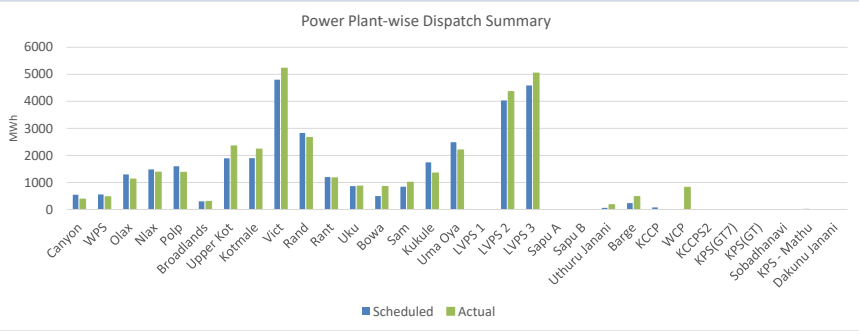


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	24,836	25,076	240
CEB Coal	8,620	9,458	838
CEB Thermal Oil	390	651	261
IPP Thermal Oil	-	799	799
NCRE (excluding non telemetered power plants)	7,116	7,469	353
Total	40,961	43,453	2,492

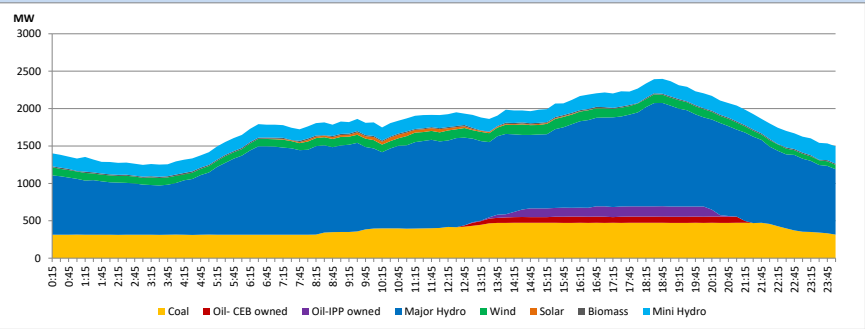
1.12 Power Plant-wise Dispatch Summary

December 16, 2024



1.13 Daily Load Curve

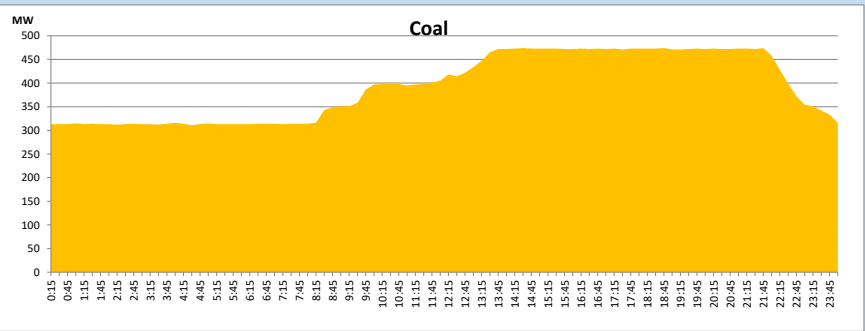
December 16, 2024



Solar and wind data is based on Telemetered Power Stations only

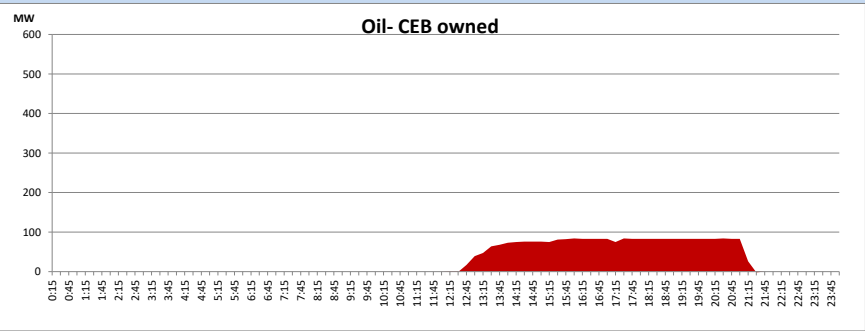
Coal Generation during

December 16, 2024



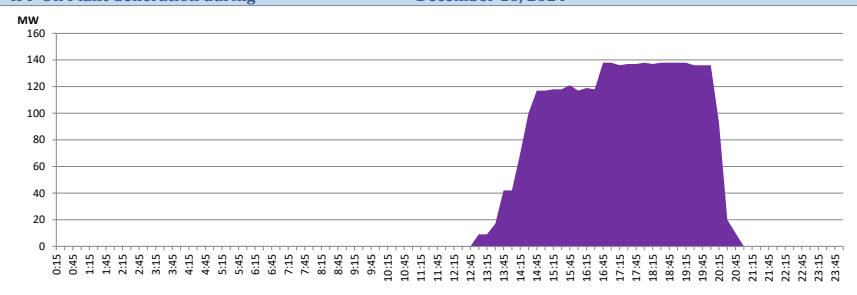
CEB Oil Plant Generation during

December 16, 2024



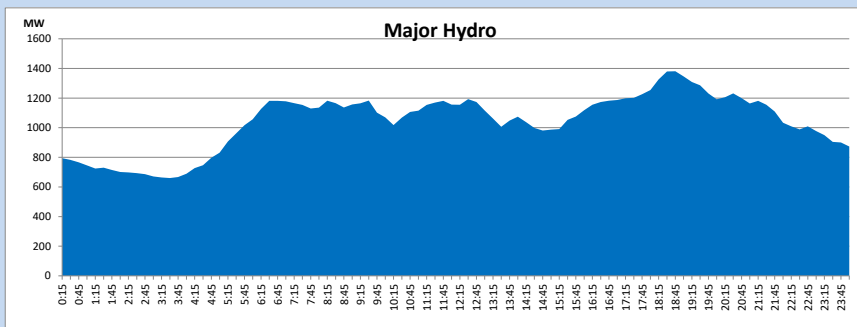
IPP Oil Plant Generation during

December 16, 2024



Major Hydro Generation during

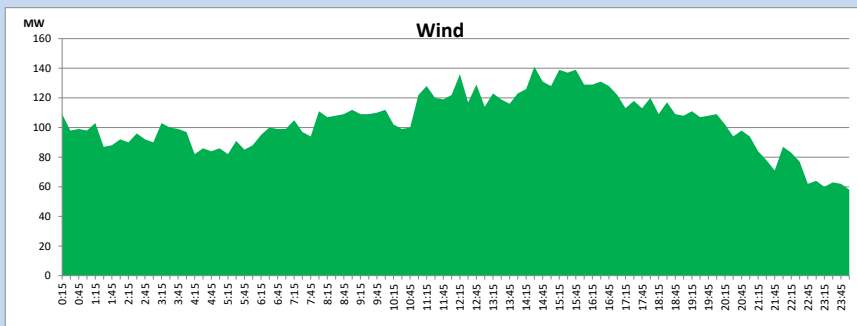
December 16, 2024



Wind Generation during

December 16, 2024

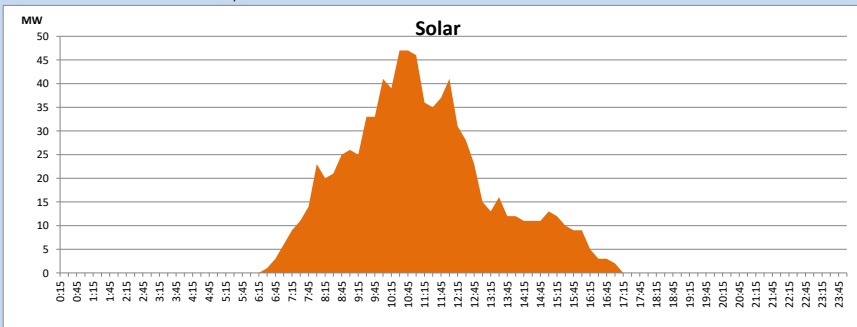
Based on Telemetered Power Stations only



Solar Generation during

December 16, 2024

Based on Telemetered Power Stations only

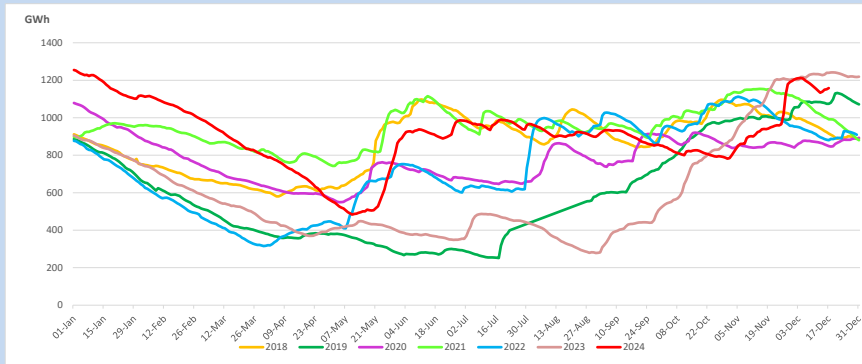


1.14 Major Incidents reported during the day

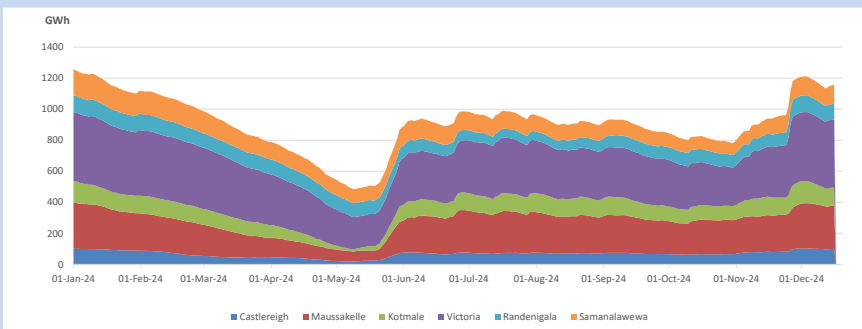
December 16, 2024

- 1) Mahiyanganaya 132/33kV T/F 01 tripped from 132kV side without any indications at 15:42hrs. The T/F is yet to be normalized.
- 2) Wagawatta GSS 132kV, Horana Line Bay, Panadura/Kesbewa Line Bay, Bus Coupler Bay and 132kV Bus Bars Loaded for the first time at 18:33hrs.
- 3) Uma Oya Puhulpola and Dyraaba ponds spilling started at 21:50hrs and 22:10hrs respectively. The Dyraaba Pond spilling stopped at 01:01hrs (17.12.2024).
- 4) Upper Kothmale Pond spilling started at 00:14hrs (17.12.2024) and stopped at 04:07hrs (17.12.2024).

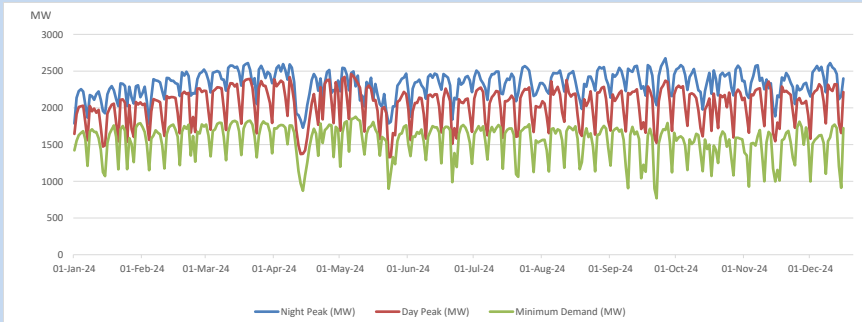
2. Comparison of Total Reservoir Storage Levels with Past Years



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

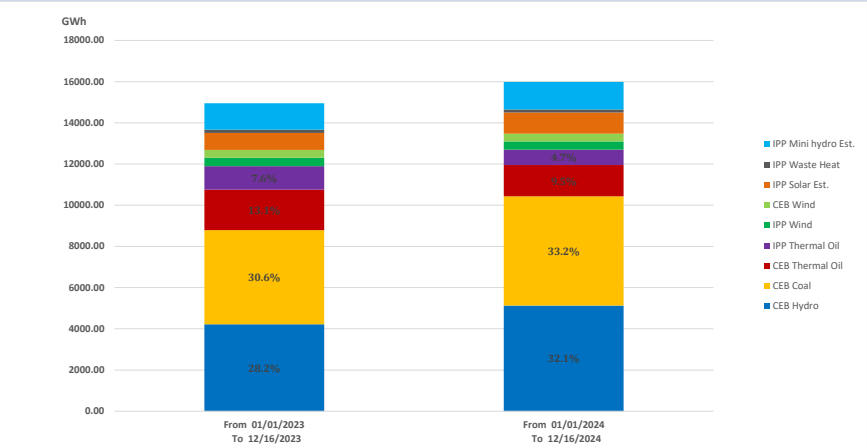


4. Variation of Demand during the current year



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 12/16/2023 14,947 GWh
From 01/01/2024 To 12/16/2024 15,982 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

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

	Installed Capacity (MW)
CEB Hydro	1,531
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