

Generation and Reservoirs Statistics

December 26, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 26, 2024

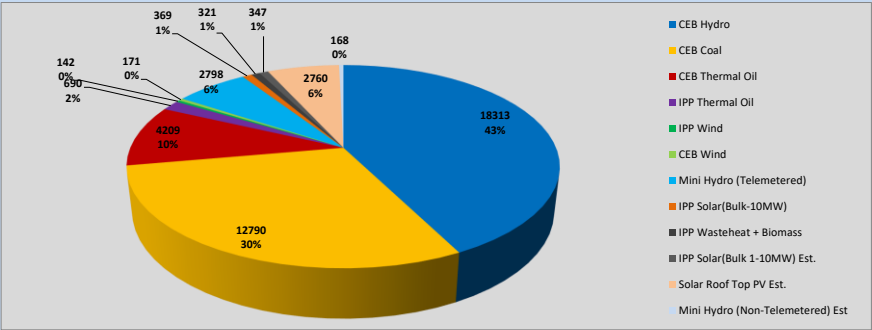


Table 01

	Generation (MWh)
CEB Hydro	18,313
CEB Coal	12,790
CEB Thermal Oil	4,209
IPP Thermal Oil	690
IPP Wind	142
CEB Wind	171
Mini Hydro (Telemetered)	2,798
IPP Solar (Bulk)	369
IPP Waste heat + Biomass	321
Total Generation (Excluding estimated figures)	39,803
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	168
* Estimated IPP Solar PV (Bulk 1-10MW)	347
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	43,078

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	612	52.02%
CEB Coal	270	22.94%
CEB Thermal Oil	28	2.39%
IPP Thermal	23	1.98%
IPP Wind	13	1.07%
CEB Wind	14	1.15%
Mini Hydro *	120	10.17%
IPP Solar *	88	7.47%
IPP Waste heat + BMP	9	0.80%
Total	1,177	

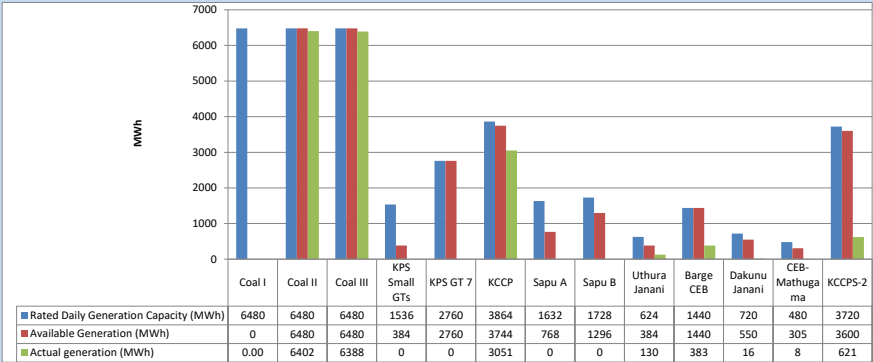
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,350	32.56%
CEB Coal	5,420	32.98%
CEB Thermal Oil	1,540	9.37%
IPP Thermal	759	4.62%
IPP Wind	396	2.41%
CEB Wind	379	2.31%
Mini Hydro *	1,374	8.36%
IPP Solar *	1,060	6.45%
IPP Waste heat	155	0.94%
Total	16,435	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 26, 2024

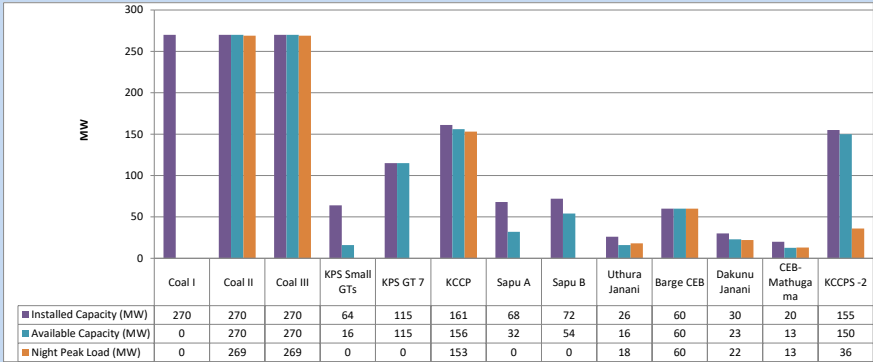


Available Generation is estimated based on plant availability at 6.00am on

December 27, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 26, 2024

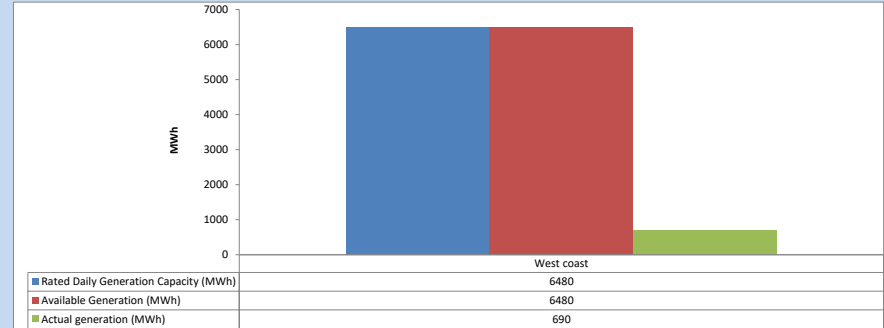


Plant availability is recorded at 6.00 am on

December 27, 2024

1.4 IPP owned Thermal Plant Dispatch

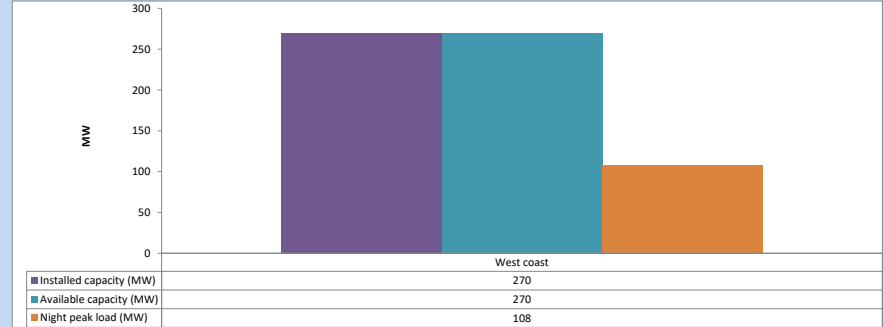
December 26, 2024



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

December 27, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

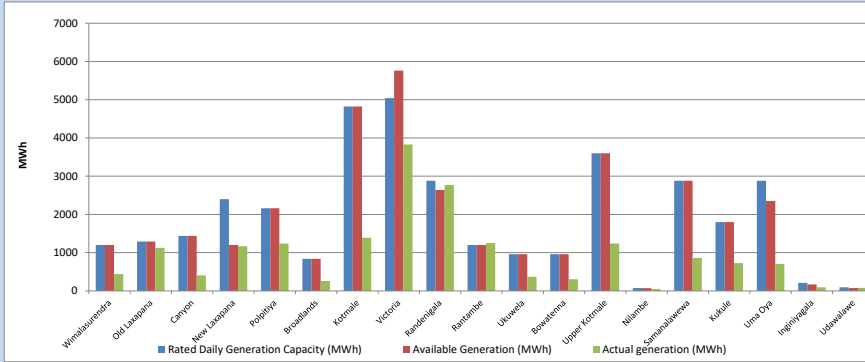


Plant availability is recorded at 6.00 am on

December 27, 2024

1.6 Major Hydro Plant Dispatch

December 26, 2024

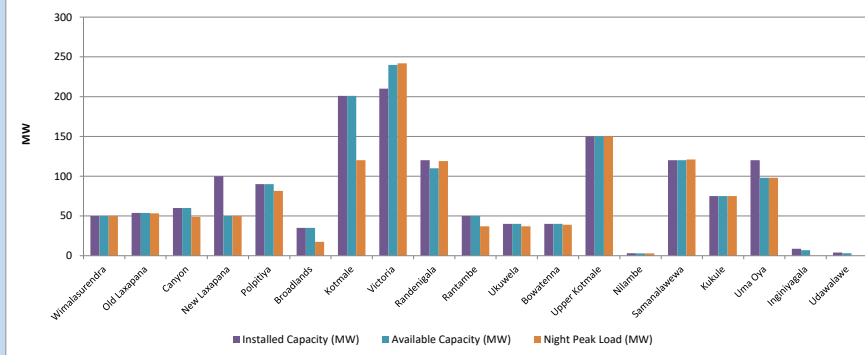


Available Generation is estimated based on plant availability at 6.00am on

December 27, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 26, 2024



Plant availability is recorded at 6.00 am on

December 27, 2024

1.8 Summary of Major Plant performance

December 26, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	439
Old Laxapana	54	54	53	1,126
Canyon	60	60	49	405
New Laxapana	100	50	50	1,166
Polpitiya	90	90	82	1,240
Broadlands	35	35	18	261
Kotmale	201	201	120	1,390
Victoria	210	240	242	3,831
Randenigala	120	110	119	2,768
Rantambe	50	50	37	1,252
Ukuwela	40	40	37	368
Bowatenna	40	40	39	305
Upper Kotmale	150	150	150	1,239
Nilambe	3	3	3	48
Samanalawewa	120	120	121	862
Kukule	75	75	75	728
Uma Oya	120	98	98	709
Inginigala	9	7	0	96
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,402
Puttalam Coal III	270	270	269	6,388
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	153	3,051
Sapugaskanda A	68	32	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	16	18	130
Barge CEB	60	60	60	383
CEB-Hambantota	30	23	22	16
CEB-Mathugama	20	13	13	8
KCCPS-2	155	150	36	621
West Coast	270	270	108	690
Sobadhanavi	220	212	0	0
Total	3,602	2,921	2,440	39,802

Note-

Plant availability is the availability recorded at 6 am on

December 27, 2024

1.9 Contribution to the Night Peak in MW

December 26, 2024

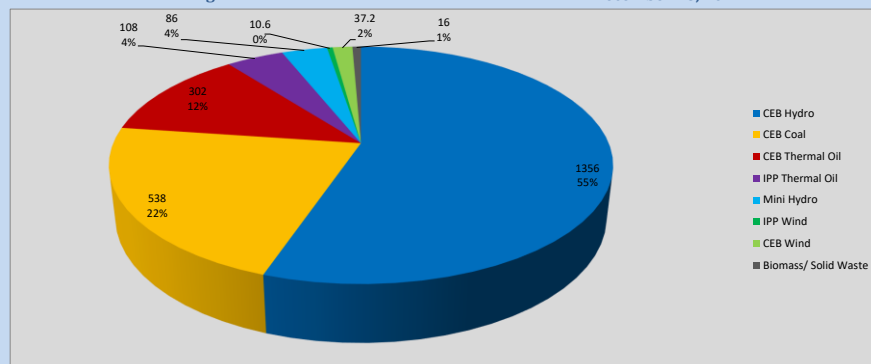


Table 05

CEB Hydro	1,356	MW
CEB Coal	538	MW
CEB Thermal Oil	302	MW
IPP Thermal Oil	108	MW
Mini Hydro (Telemetered)	86	MW
IPP Wind	10.6	MW
CEB Wind	37.2	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

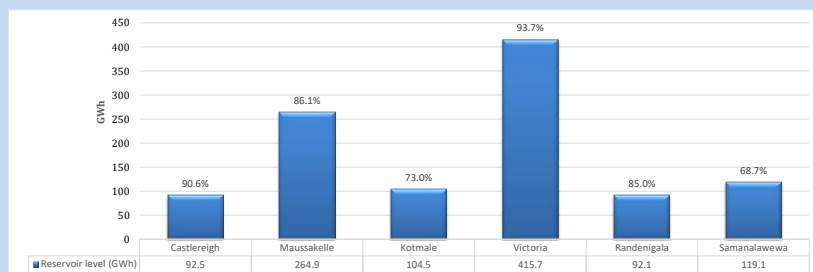
Table 06

Night Peak*	2,454	MW
Day Peak Maximum Demand	2,076	MW
Day Peak Minimum Demand	1,389	MW
Off Peak Minimum Demand	1,262	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 27, 2024



Total Reservoir Level
% of Total capacity

1,089 GWh
85.2%

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

December 26, 2024

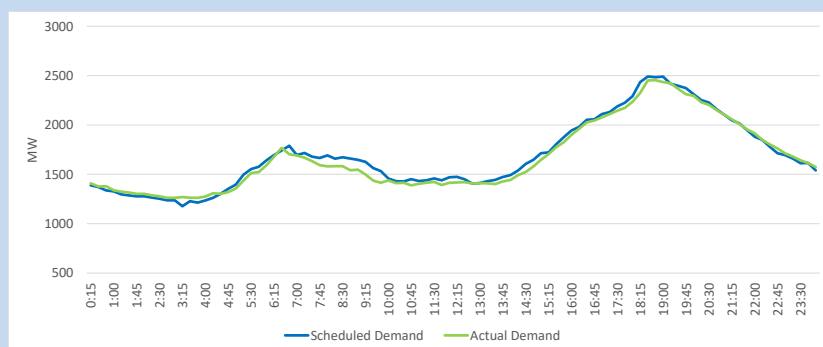
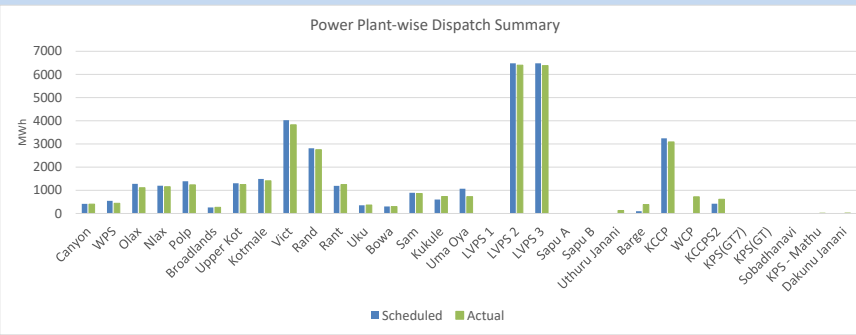


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	19,140	18,313	(827)
CEB Coal	12,960	12,790	(170)
CEB Thermal Oil	3,761	4,209	448
IPP Thermal Oil	-	690	690
NCRE (excluding non telemetered power plants)	4,632	3,801	(831)
Total	40,493	39,803	(690)

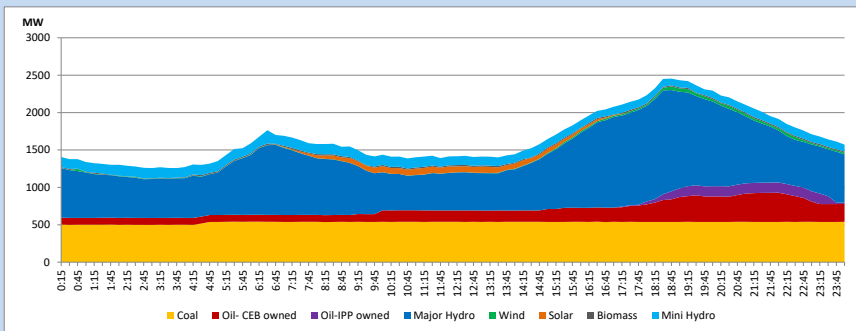
1.12 Power Plant-wise Dispatch Summary

December 26, 2024



1.13 Daily Load Curve

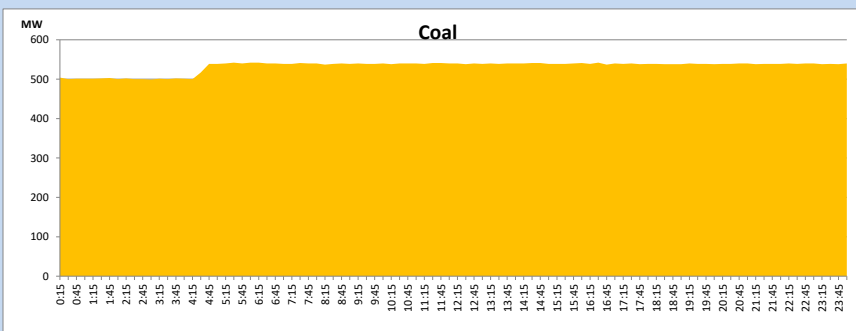
December 26, 2024



Solar and wind data is based on Telemetered Power Stations only

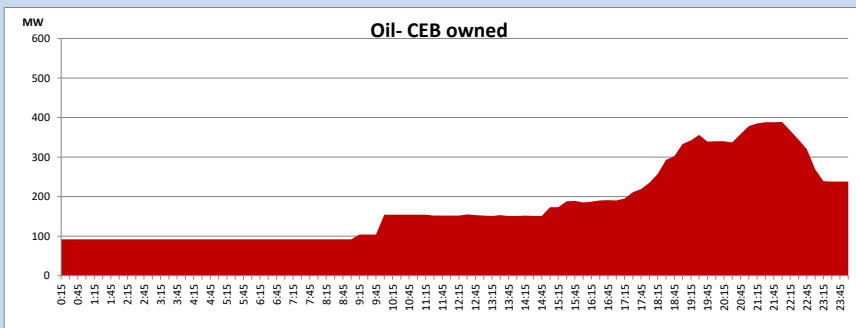
Coal Generation during

December 26, 2024

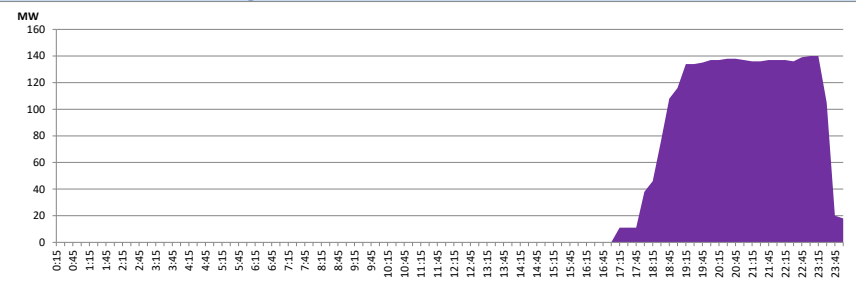


CEB Oil Plant Generation during

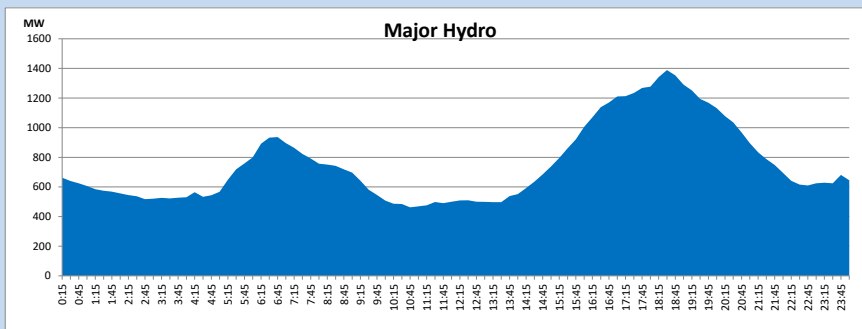
December 26, 2024



IPP Oil Plant Generation during December 26, 2024

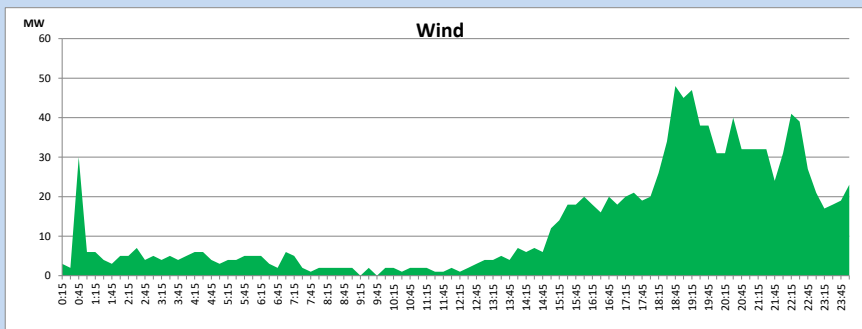


Major Hydro Generation during December 26, 2024



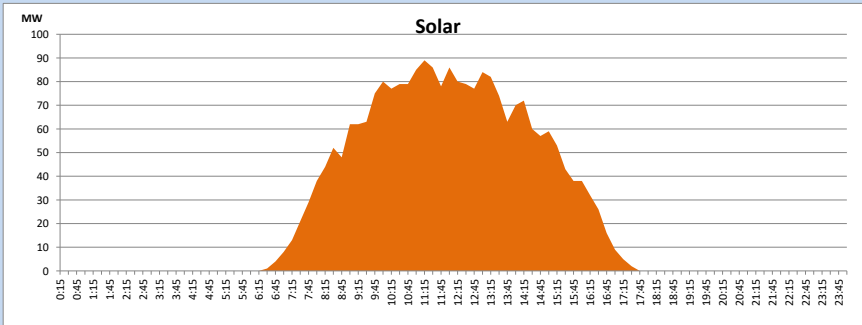
Wind Generation during December 26, 2024

Based on Telemetered Power Stations only



Solar Generation during December 26, 2024

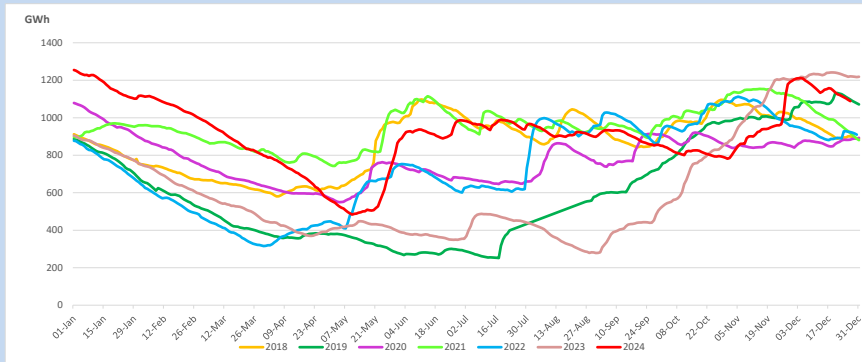
Based on Telemetered Power Stations only



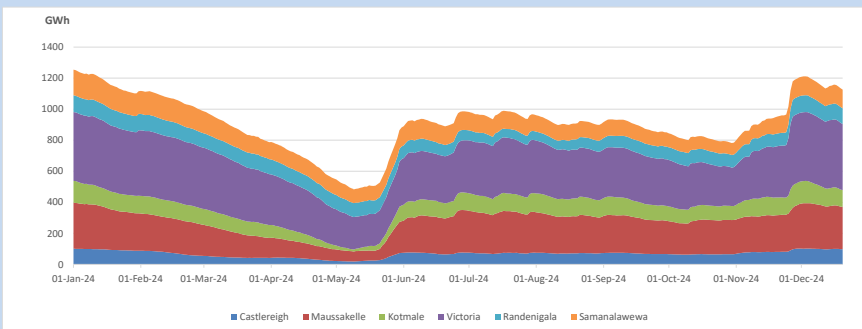
1.14 Major Incidents reported during the day December 26, 2024

- 1) kCCPS-2 GT & ST were synchronized at 14:46hrs & 18:47hrs, respectively. The entire plant continued to operate until 23:09hrs for testing purposes.
- 2) Broadlands unit 02 was unavailable from 18:25hrs to 19:05hrs (during the night peak) due to the governor oil level low.

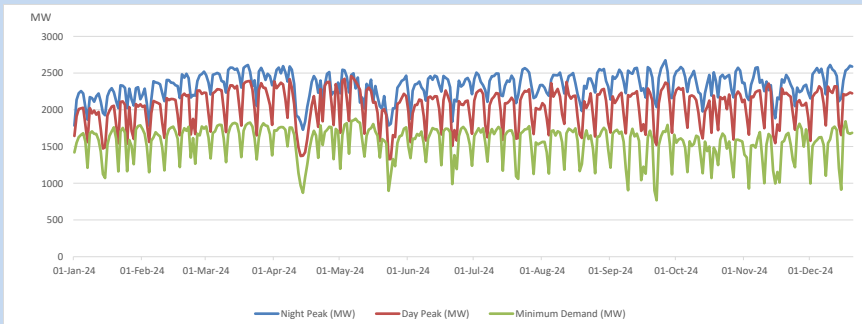
2. Comparison of Total Reservoir Storage Levels with Past Years



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

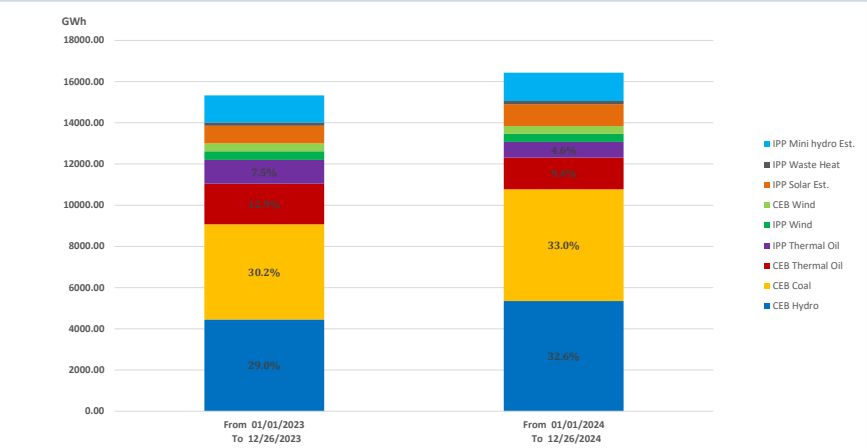


4. Variation of Demand during the current year



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 12/26/2023 15,329 GWh
From 01/01/2024 To 12/26/2024 16,435 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	Furnace oil
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	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