

Generation and Reservoirs Statistics

December 8, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 8, 2024

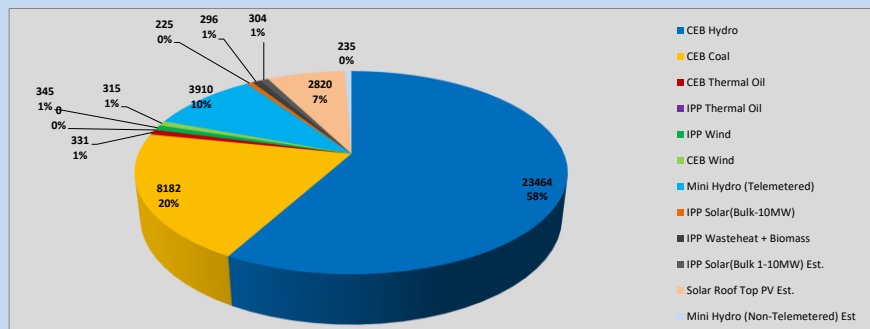


Table 01

	Generation (MWh)
CEB Hydro	23,464
CEB Coal	8,182
CEB Thermal Oil	331
IPP Thermal Oil	-
IPP Wind	345
CEB Wind	315
Mini Hydro (Telemetered)	3,910
IPP Solar (Bulk)	225
IPP Waste heat + Biomass	296
Total Generation (Excluding estimated figures)	37,068
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	235
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	40,427

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	199	55.45%
CEB Coal	69	19.19%
CEB Thermal Oil	4	0.99%
IPP Thermal	6	1.68%
IPP Wind	5	1.47%
CEB Wind	4	1.16%
Mini Hydro *	41	11.46%
IPP Solar *	27	7.57%
IPP Waste heat + BMP	4	1.03%
Total	358	

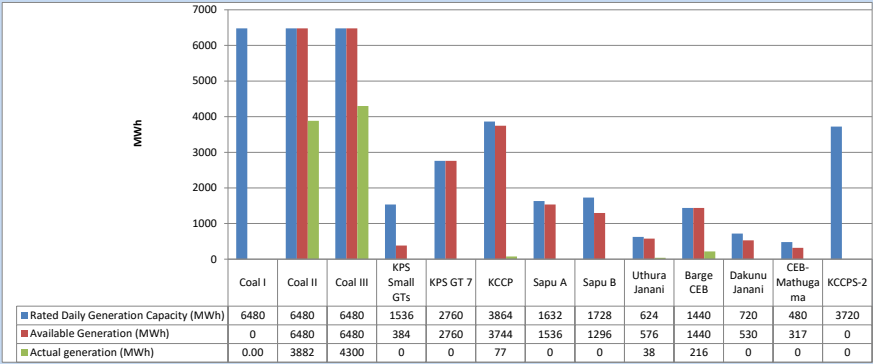
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,937	31.61%
CEB Coal	5,219	33.42%
CEB Thermal Oil	1,516	9.71%
IPP Thermal	741	4.75%
IPP Wind	389	2.49%
CEB Wind	370	2.37%
Mini Hydro *	1,296	8.30%
IPP Solar *	999	6.40%
IPP Waste heat	149	0.96%
Total	15,616	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 8, 2024

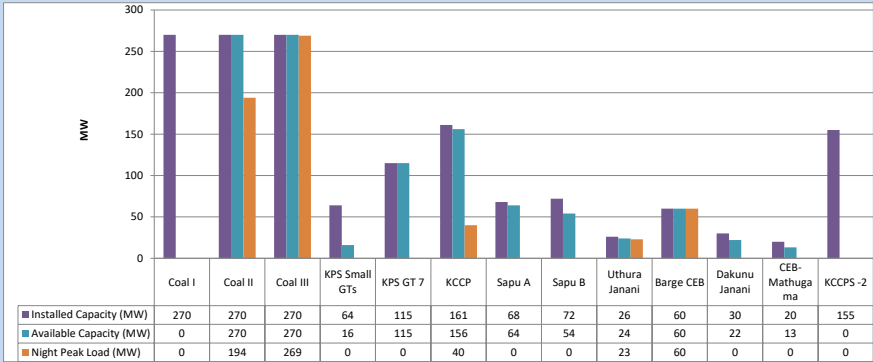


Available Generation is estimated based on plant availability at 6.00am on

December 9, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 8, 2024

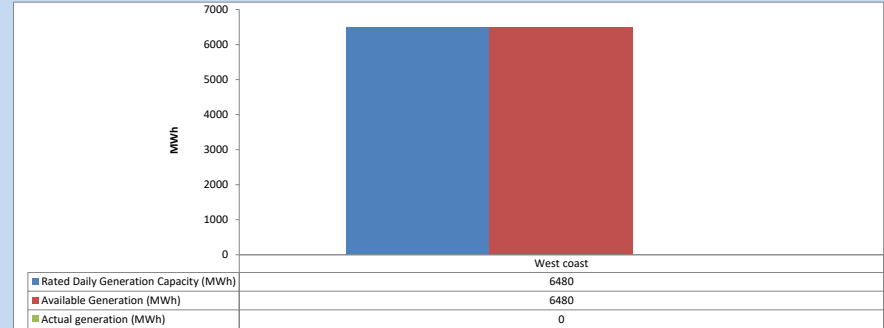


Plant availability is recorded at 6.00 am on

December 9, 2024

1.4 IPP owned Thermal Plant Dispatch

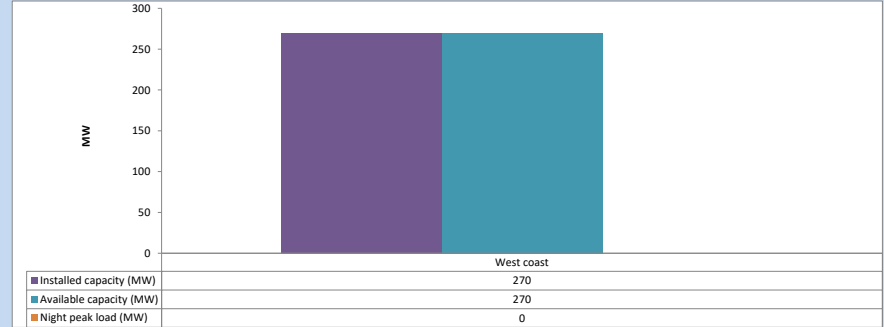
December 8, 2024



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

December 9, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

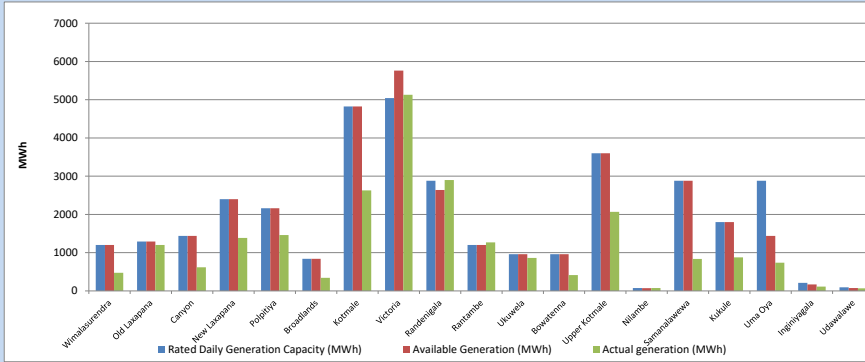


Plant availability is recorded at 6.00 am on

December 9, 2024

1.6 Major Hydro Plant Dispatch

December 8, 2024

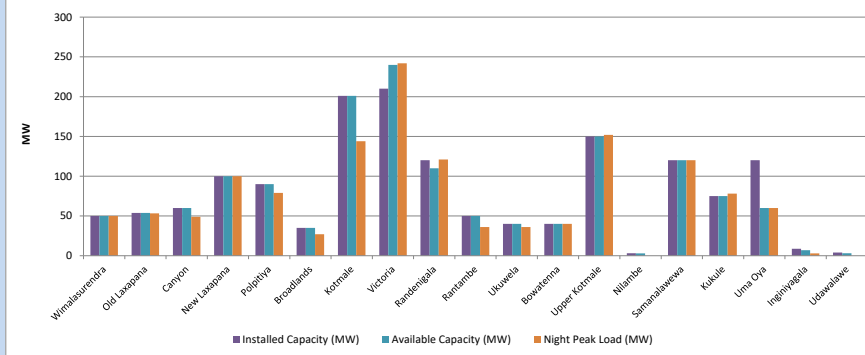


Available Generation is estimated based on plant availability at 6.00am on

December 9, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 8, 2024



Plant availability is recorded at 6.00 am on

December 9, 2024

1.8 Summary of Major Plant performance

December 8, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	475
Old Laxapana	54	54	53	1,203
Canyon	60	60	49	617
New Laxapana	100	100	100	1,384
Polpitiya	90	90	79	1,460
Broadlands	35	35	27	342
Kotmale	201	201	144	2,630
Victoria	210	240	242	5,128
Randenigala	120	110	121	2,898
Rantambe	50	50	36	1,269
Ukuwela	40	40	36	864
Bowatenna	40	40	40	416
Upper Kotmale	150	150	152	2,066
Nilambe	3	3	0	76
Samanalawewa	120	120	120	836
Kukule	75	75	78	879
Uma Oya	120	60	60	737
Inginigala	9	7	3	113
Udawalawe	4	3	0	69
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	194	3,882
Puttalam Coal III	270	270	269	4,300
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	40	77
Sapugaskanda A	68	64	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	23	38
Barge CEB	60	60	60	216
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	212	0	0
Total	3,602	2,822	2,192	37,066

Note-

Plant availability is the availability recorded at 6 am on

December 9, 2024

1.9 Contribution to the Night Peak in MW

December 8, 2024

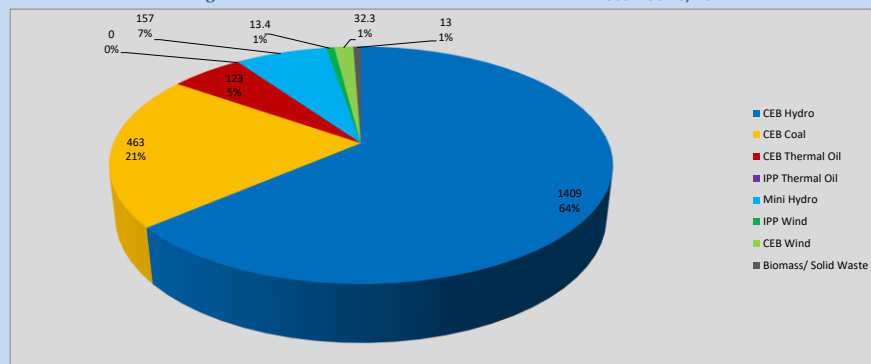


Table 05

CEB Hydro	1409	MW
CEB Coal	463	MW
CEB Thermal Oil	123	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	157	MW
IPP Wind	13.4	MW
CEB Wind	32.3	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

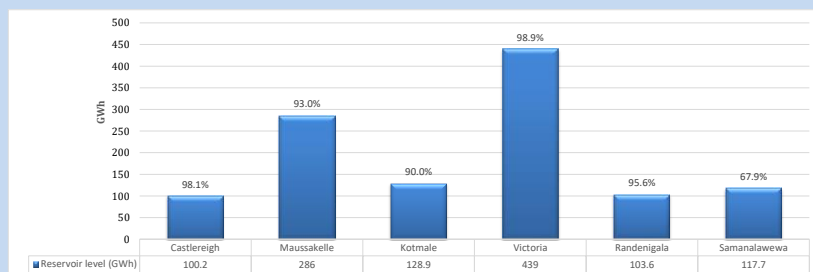
Table 06

Night Peak*	2,210	MW
Day Peak Maximum Demand	1,788	MW
Day Peak Minimum Demand	1,102	MW
Off Peak Minimum Demand	1,357	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 9, 2024



Total Reservoir Level
% of Total capacity

1175.4 GWh
91.9%

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

December 8, 2024

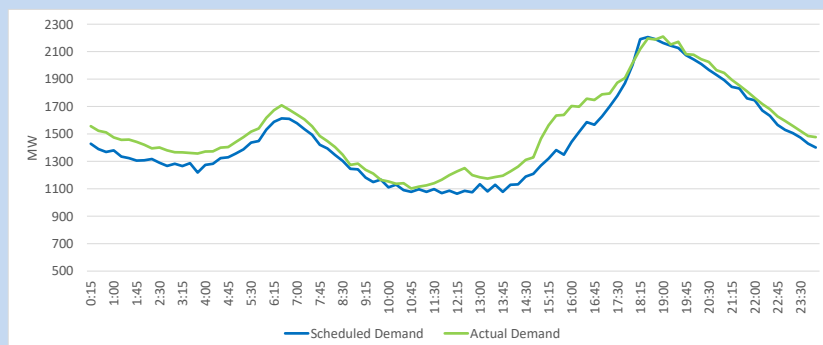
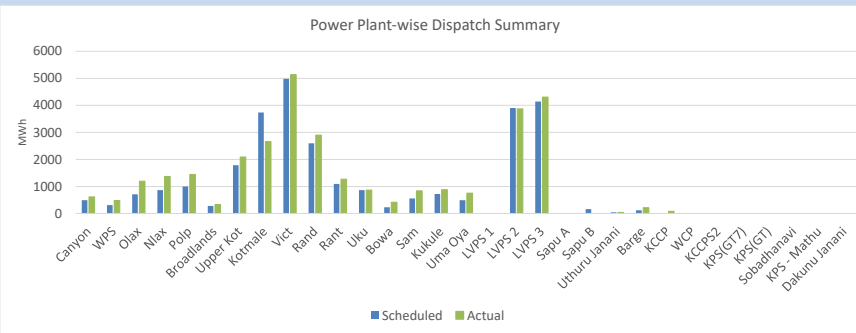


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	20,701	23,464	2,763
CEB Coal	8,036	8,182	146
CEB Thermal Oil	323	331	8
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	5,907	5,091	(816)
Total	34,967	37,068	2,101

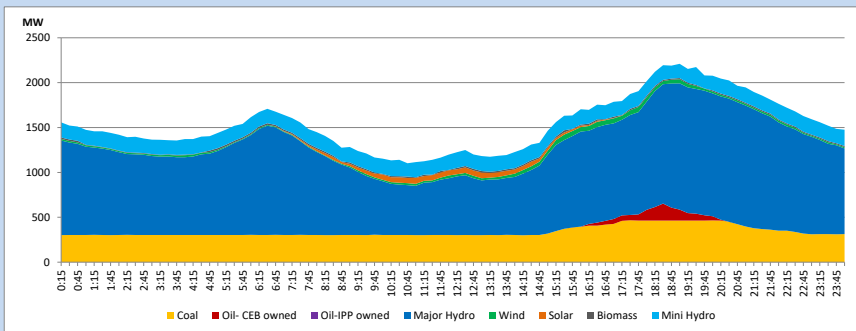
1.12 Power Plant-wise Dispatch Summary

December 8, 2024



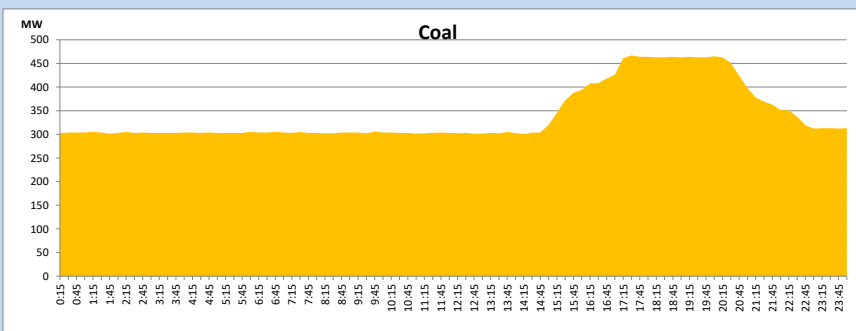
1.13 Daily Load Curve

December 8, 2024



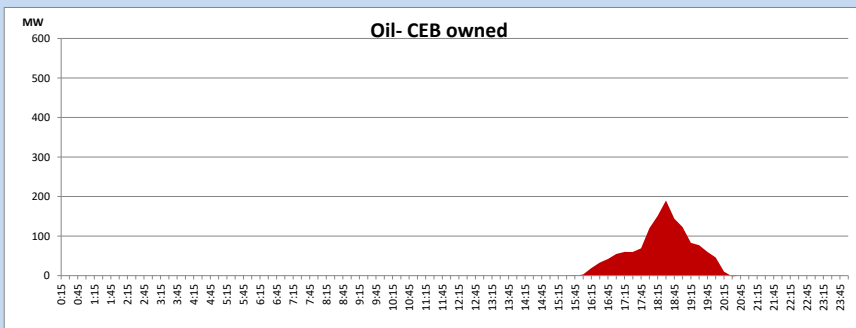
Coal Generation during

December 8, 2024



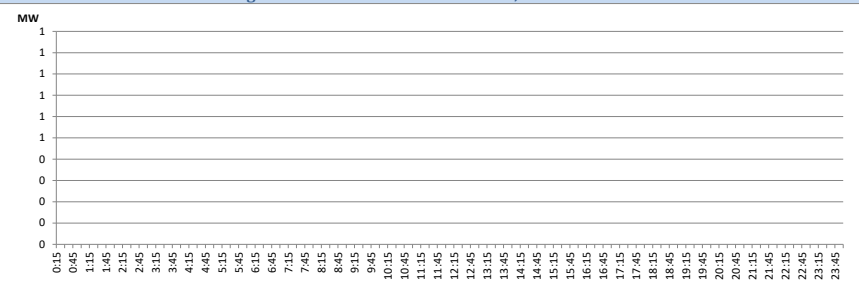
CEB Oil Plant Generation during

December 8, 2024



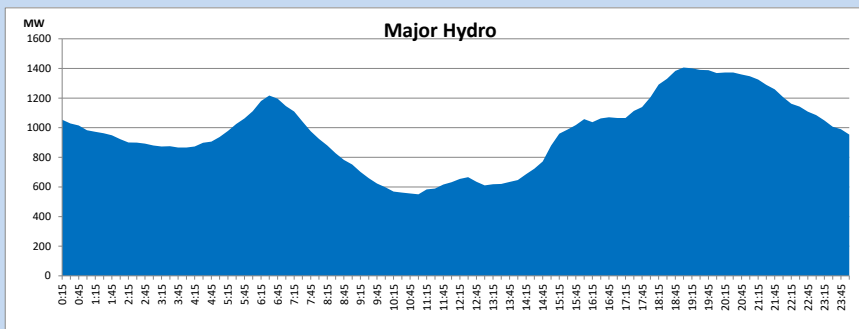
IPP Oil Plant Generation during

December 8, 2024



Major Hydro Generation during

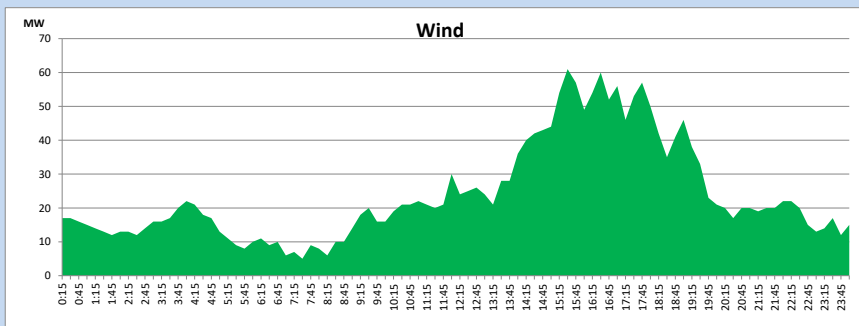
December 8, 2024



Wind Generation during

December 8, 2024

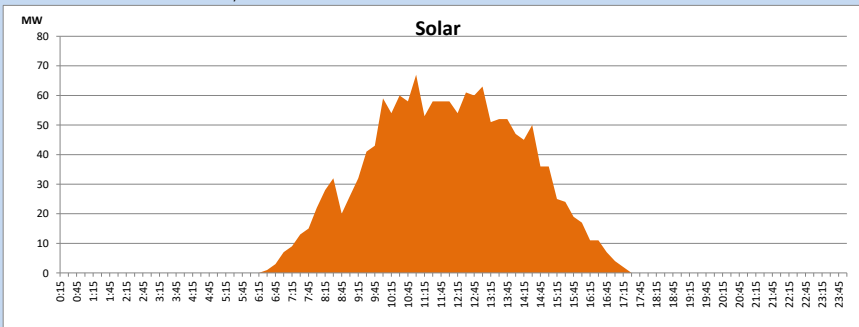
Based on Telemetered Power Stations only



Solar Generation during

December 8, 2024

Based on Telemetered Power Stations only

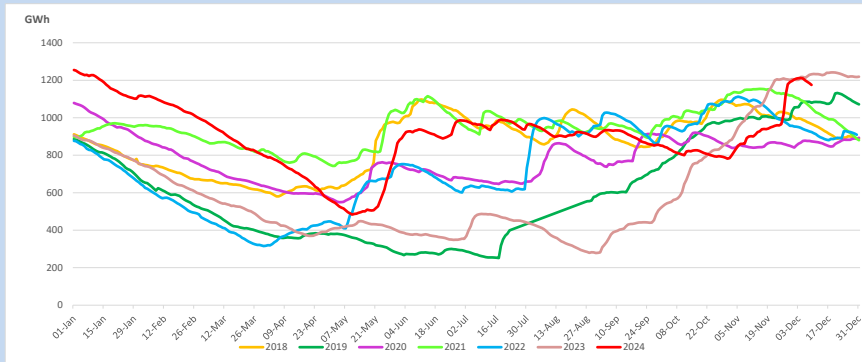


1.14 Major Incidents reported during the day

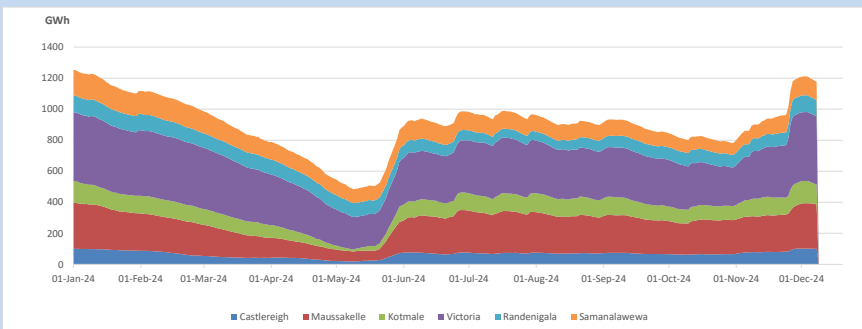
December 8, 2024

- 1) 132kV B/B 01 & 02, and Horana 132kV line bay of Wagawatta GSS were energized for the first time via Kesbewa - Panadura - Wagawatta 132kV cct at 15:36hrs.
- 2) Wimalasurendra PS unit 02 tripped at 16:46hrs, rejecting 2MW from the system, due to starting issue. Wimalasurendra PS unit 02 resumed generation at 17:36hrs.
- 3) N'Laxapana unit 01 was unable to start at 17:00hrs after the scheduled R/M works and later synchronized at 18:30hrs.
- 4) Uma Oya unit 02 was made unavailable at 16:14hrs due to a cooling water issue. Uma Oya unit 02 is yet to resume generation.

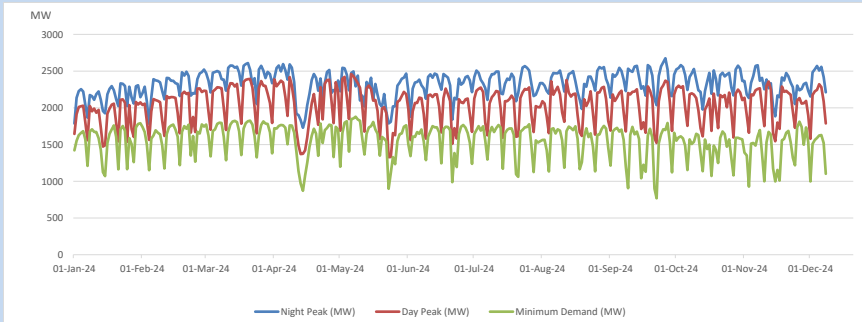
2. Comparison of Total Reservoir Storage Levels with Past Years



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

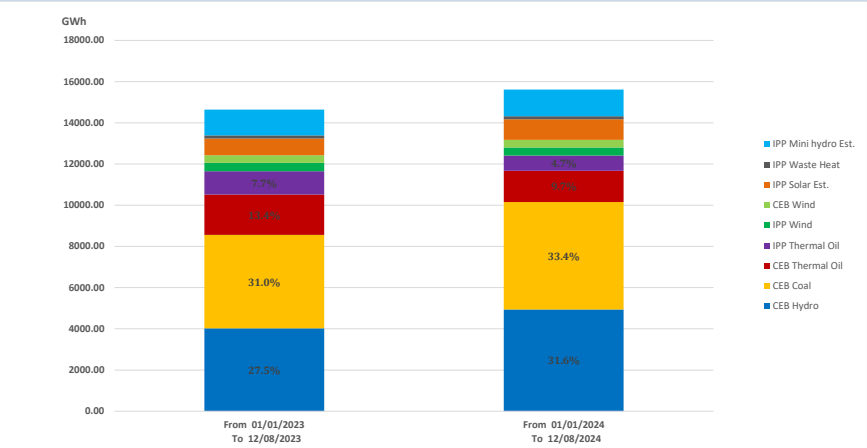


4. Variation of Demand during the current year



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 12/08/2023 14640 GWh
From 01/01/2024 To 12/08/2024 15616 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