

Generation and Reservoirs Statistics

December 15, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 15, 2024

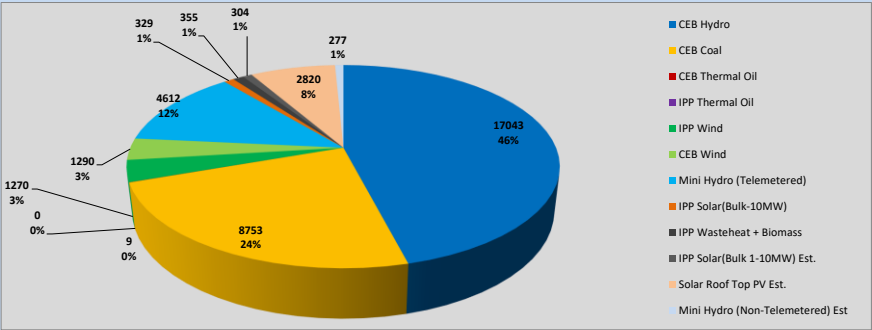


Table 01

	Generation (MWh)
CEB Hydro	17,043
CEB Coal	8,753
CEB Thermal Oil	9
IPP Thermal Oil	-
IPP Wind	1,270
CEB Wind	1,290
Mini Hydro (Telemetered)	4,612
IPP Solar (Bulk)	329
IPP Waste heat + Biomass	355
Total Generation (Excluding estimated figures)	33,661
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	277
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	37,062

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	365	53.96%
CEB Coal	144	21.27%
CEB Thermal Oil	8	1.15%
IPP Thermal	13	1.85%
IPP Wind	10	1.43%
CEB Wind	10	1.41%
Mini Hydro *	71	10.53%
IPP Solar *	51	7.52%
IPP Waste heat + BMP	6	0.89%
Total	676	

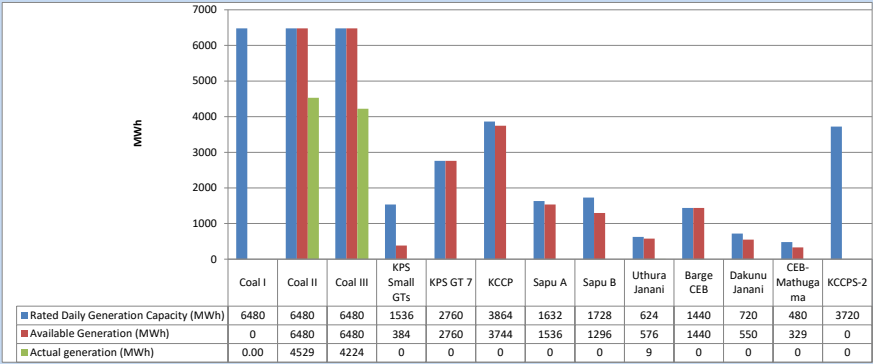
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,103	32.03%
CEB Coal	5,294	33.23%
CEB Thermal Oil	1,520	9.54%
IPP Thermal	748	4.69%
IPP Wind	393	2.47%
CEB Wind	375	2.35%
Mini Hydro *	1,326	8.32%
IPP Solar *	1,023	6.42%
IPP Waste heat	152	0.95%
Total	15,934	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 15, 2024

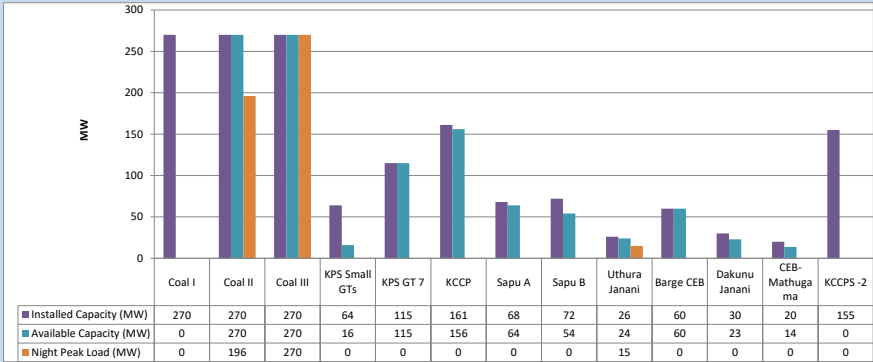


Available Generation is estimated based on plant availability at 6.00am on

December 16, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 15, 2024

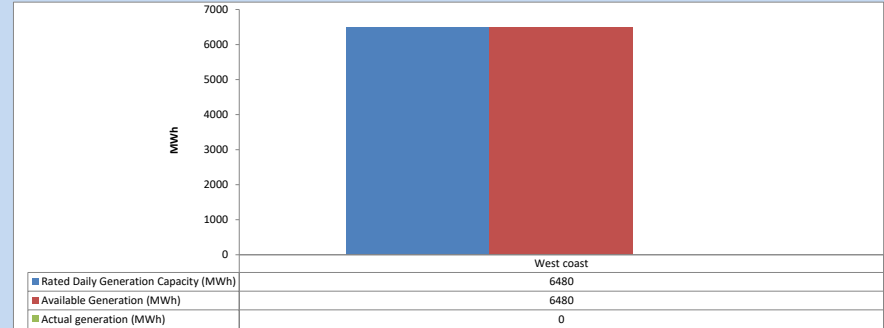


Plant availability is recorded at 6.00 am on

December 16, 2024

1.4 IPP owned Thermal Plant Dispatch

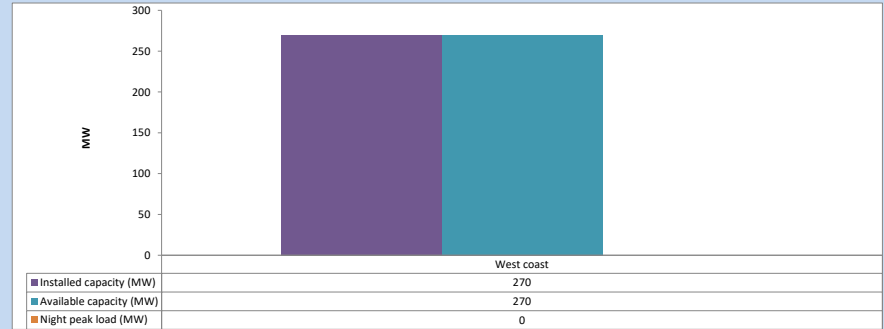
December 15, 2024



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

December 16, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

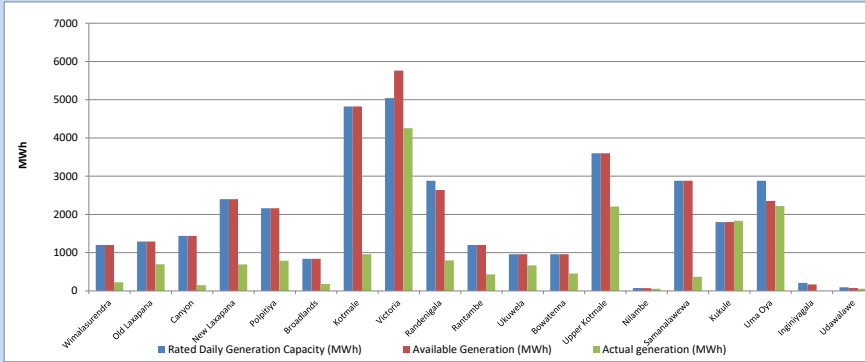


Plant availability is recorded at 6.00 am on

December 16, 2024

1.6 Major Hydro Plant Dispatch

December 15, 2024

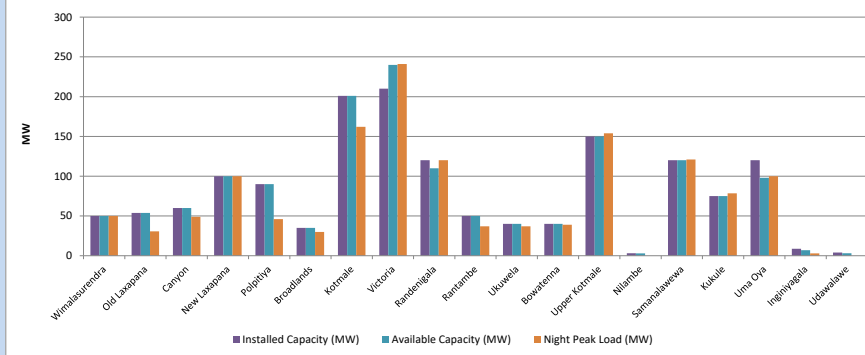


Available Generation is estimated based on plant availability at 6.00am on

December 16, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 15, 2024



Plant availability is recorded at 6.00 am on

December 16, 2024

1.8 Summary of Major Plant performance

December 15, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	227
Old Laxapana	54	54	31	698
Canyon	60	60	49	152
New Laxapana	100	100	100	694
Polpitiya	90	90	46	790
Broadlands	35	35	30	179
Kotmale	201	201	162	960
Victoria	210	240	241	4,254
Randenigala	120	110	120	799
Rantambe	50	50	37	433
Ukuwela	40	40	37	667
Bowatenna	40	40	39	455
Upper Kotmale	150	150	154	2,207
Nilambe	3	3	0	55
Samanalawewa	120	120	121	369
Kukule	75	75	78	1,835
Uma Oya	120	98	100	2,216
Inginigala	9	7	3	0
Udawalawe	4	3	0	55
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	196	4,529
Puttalam Coal III	270	270	270	4,224
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	0	0
Uthura Janani	26	24	15	9
Barge CEB	60	60	0	0
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	212	0	0
Total	3,602	2,862	2,144	33,663

Note-

Plant availability is the availability recorded at 6 am on

December 16, 2024

1.9 Contribution to the Night Peak in MW

December 15, 2024

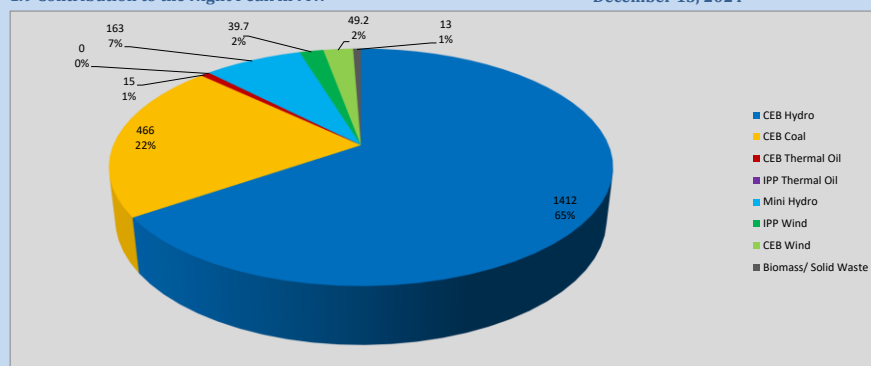


Table 05

CEB Hydro	1,412	MW
CEB Coal	466	MW
CEB Thermal Oil	15	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	163	MW
IPP Wind	39.7	MW
CEB Wind	49.2	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

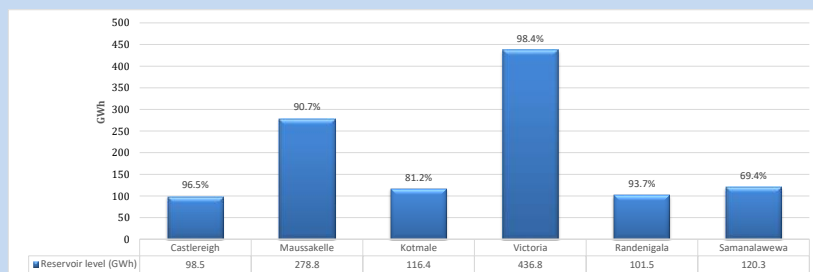
Table 06

Night Peak*	2,158	MW
Day Peak Maximum Demand	1,656	MW
Day Peak Minimum Demand	912	MW
Off Peak Minimum Demand	1,212	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 16, 2024



Total Reservoir Level
% of Total capacity

1,152 GWh
90.1%

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

December 15, 2024

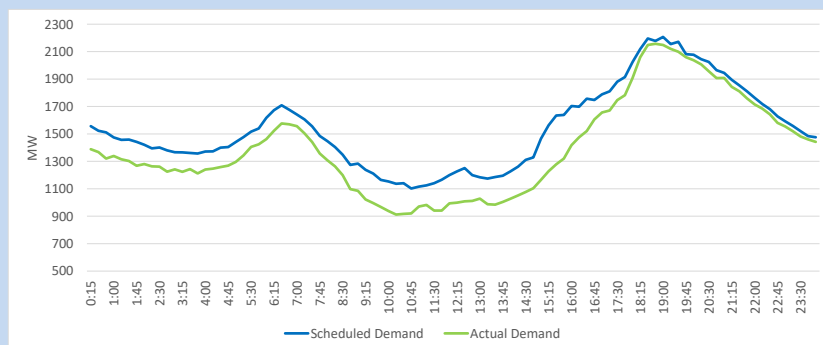
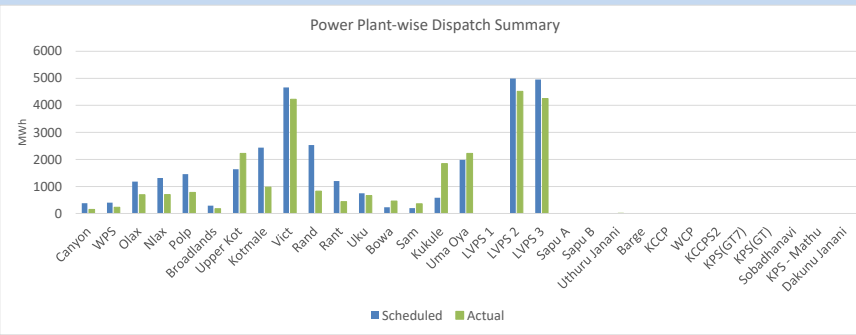


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	21,217	17,043	(4,174)
CEB Coal	9,949	8,753	(1,196)
CEB Thermal Oil	-	9	9
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	5,813	7,856	2,043
Total	36,979	33,661	(3,318)

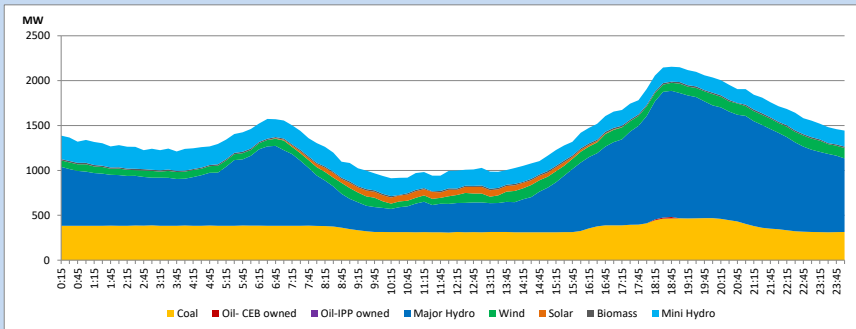
1.12 Power Plant-wise Dispatch Summary

December 15, 2024



1.13 Daily Load Curve

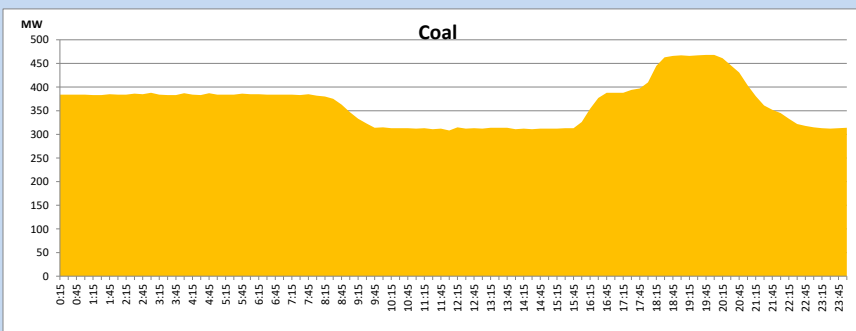
December 15, 2024



Solar and wind data is based on Telemetered Power Stations only

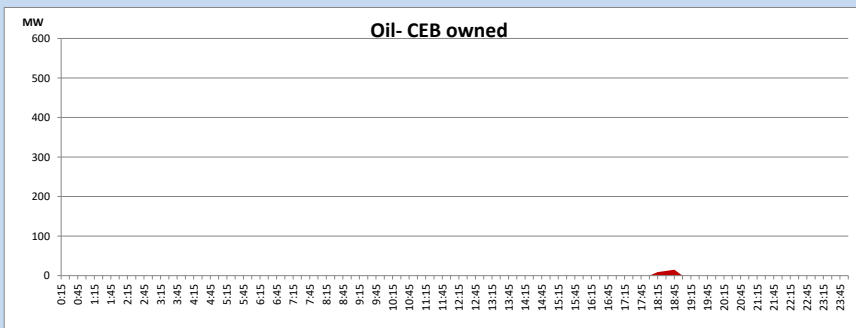
Coal Generation during

December 15, 2024



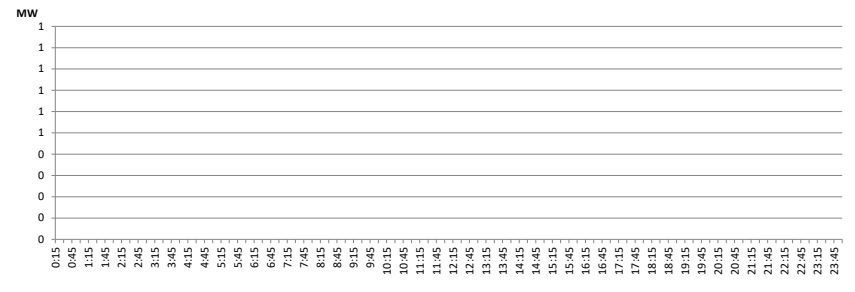
CEB Oil Plant Generation during

December 15, 2024



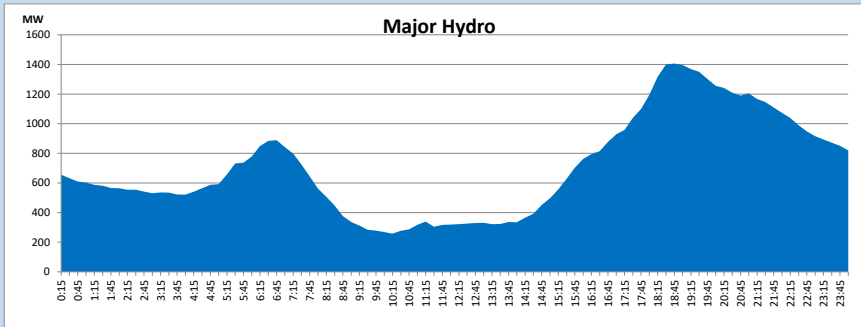
IPP Oil Plant Generation during

December 15, 2024



Major Hydro Generation during

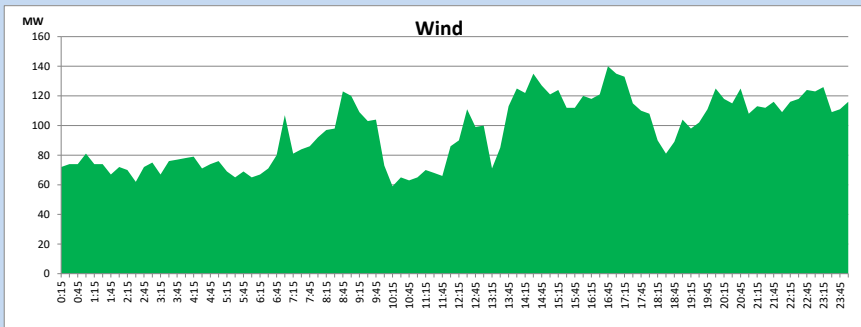
December 15, 2024



Wind Generation during

December 15, 2024

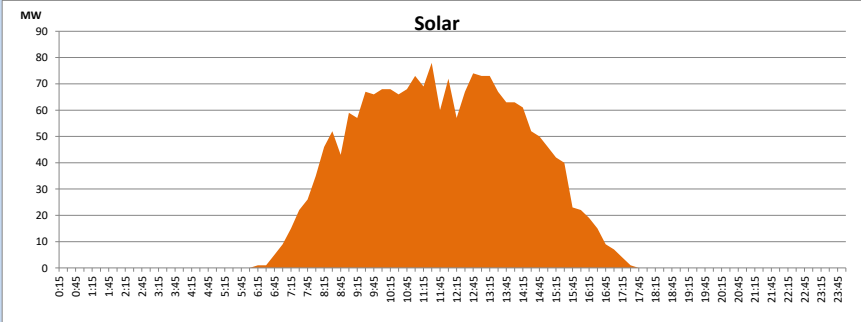
Based on Telemetered Power Stations only



Solar Generation during

December 15, 2024

Based on Telemetered Power Stations only

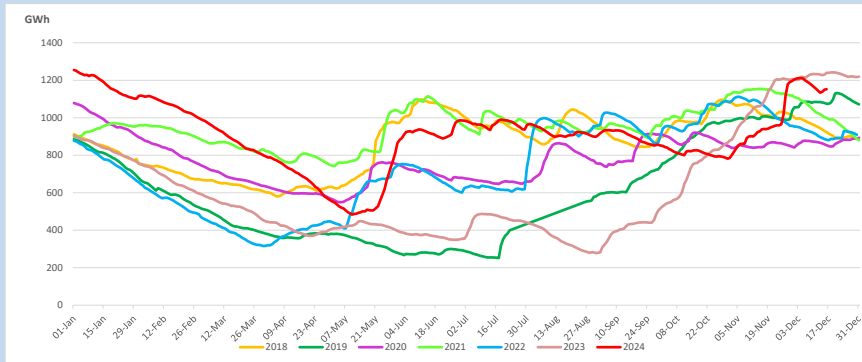


1.14 Major Incidents reported during the day

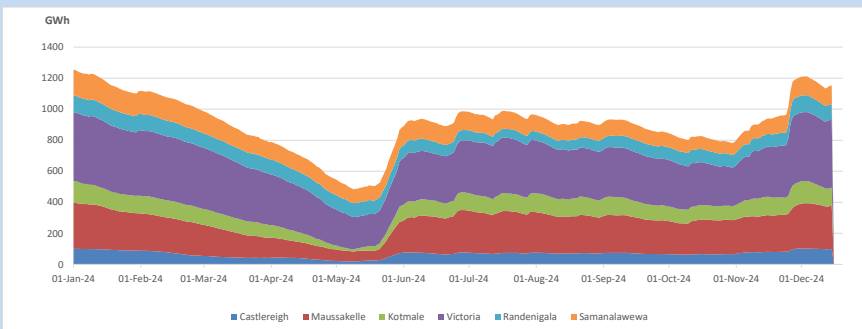
December 15, 2024

- 1) Kukuleganga pond spilling stopped at 10:00hrs.
- 2) Uma Oya Dyraaba pond spilling started at 10:10hrs and stopped at 14:46hrs and Puhulpola pond spilling stopped at 7:34hrs.
- 3) Polpitiya Unit 01 was unable to start after R/M due to an issue in the GCB. Polpitiya unit 01 resumed generation at 19:24hrs.

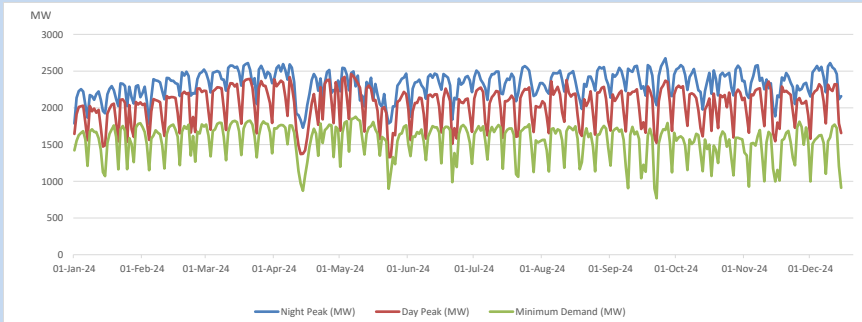
2. Comparison of Total Reservoir Storage Levels with Past Years



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

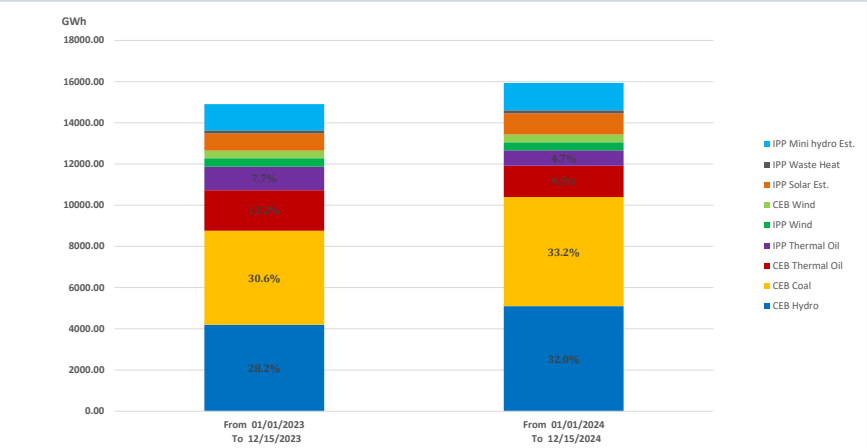


4. Variation of Demand during the current year



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 12/15/2023 14,909 GWh
From 01/01/2024 To 12/15/2024 15,934 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	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