

Generation and Reservoirs Statistics

December 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 14, 2024

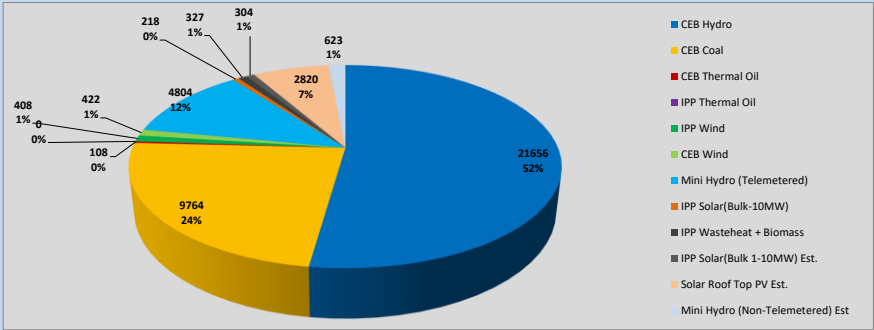


Table 01

	Generation (MWh)
CEB Hydro	21,656
CEB Coal	9,764
CEB Thermal Oil	108
IPP Thermal Oil	-
IPP Wind	408
CEB Wind	422
Mini Hydro (Telemetered)	4,804
IPP Solar (Bulk)	218
IPP Waste heat + Biomass	327
Total Generation (Excluding estimated figures)	37,707
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	623
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	41,454

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	348	54.42%
CEB Coal	135	21.14%
CEB Thermal Oil	8	1.21%
IPP Thermal	13	1.96%
IPP Wind	8	1.31%
CEB Wind	8	1.29%
Mini Hydro *	66	10.38%
IPP Solar *	47	7.42%
IPP Waste heat + BMP	6	0.88%
Total	639	

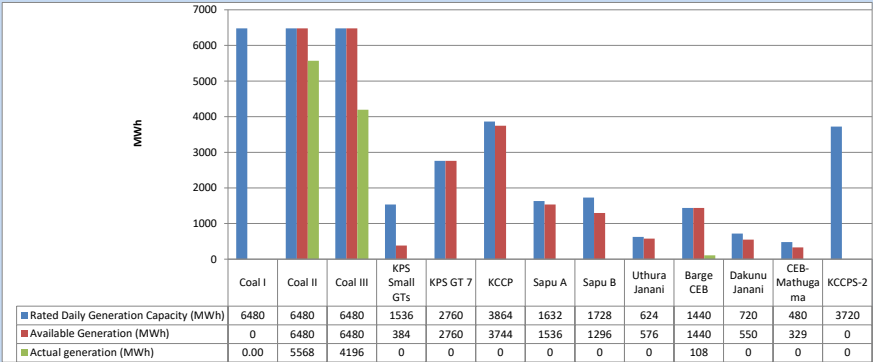
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,086	31.99%
CEB Coal	5,286	33.25%
CEB Thermal Oil	1,520	9.56%
IPP Thermal	748	4.70%
IPP Wind	392	2.47%
CEB Wind	374	2.35%
Mini Hydro *	1,321	8.31%
IPP Solar *	1,019	6.41%
IPP Waste heat	151	0.95%
Total	15,897	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 14, 2024

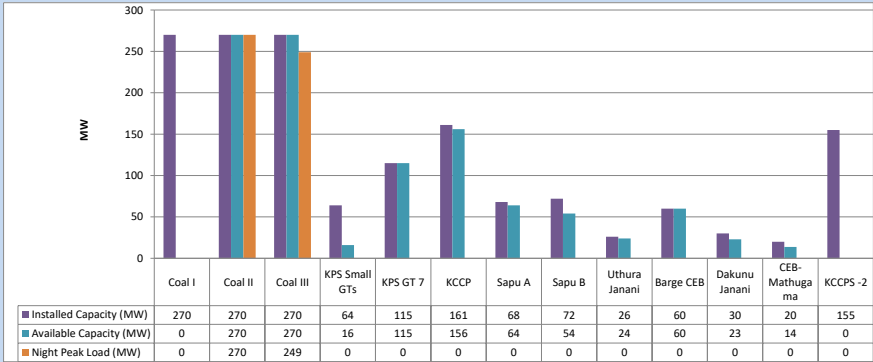


Available Generation is estimated based on plant availability at 6.00am on

December 15, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 14, 2024

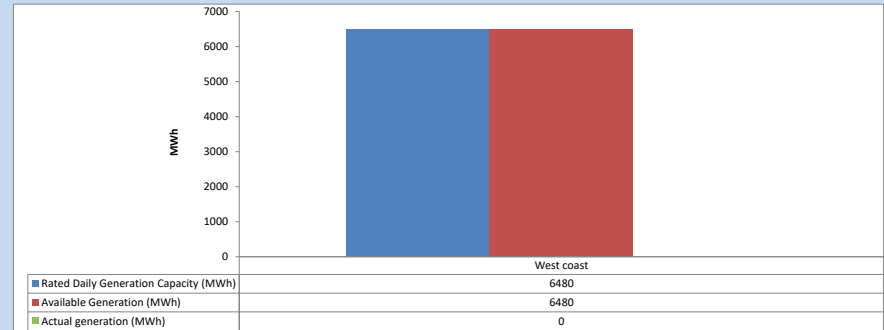


Plant availability is recorded at 6.00 am on

December 15, 2024

1.4 IPP owned Thermal Plant Dispatch

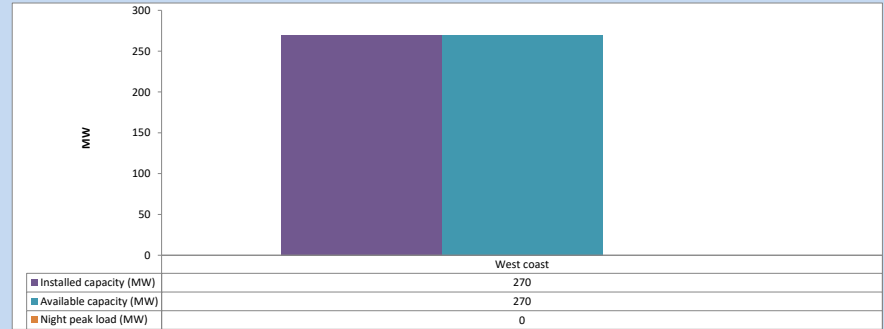
December 14, 2024



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

December 15, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

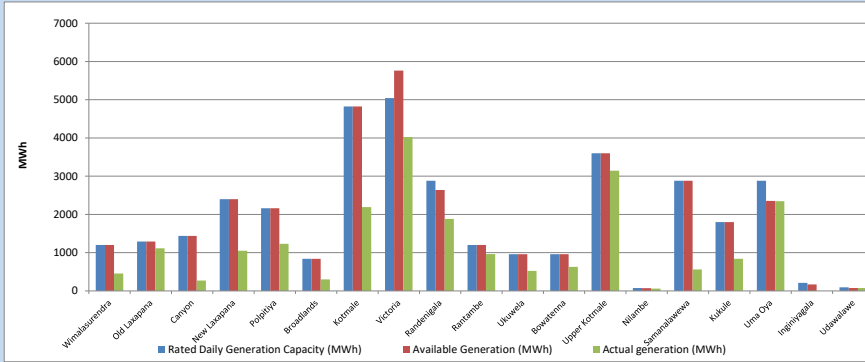


Plant availability is recorded at 6.00 am on

December 15, 2024

1.6 Major Hydro Plant Dispatch

December 14, 2024

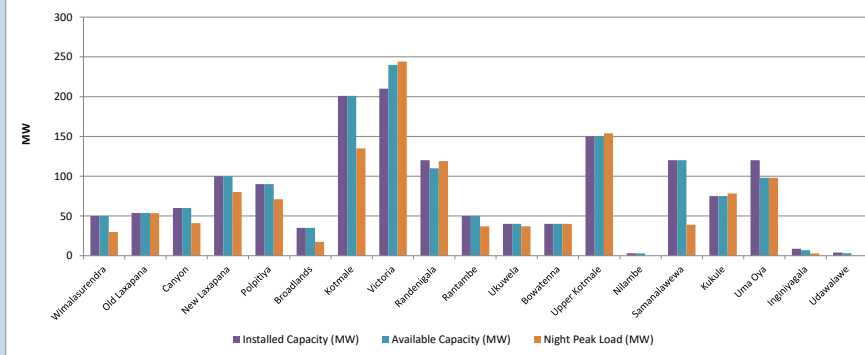


Available Generation is estimated based on plant availability at 6.00am on

December 15, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 14, 2024



Plant availability is recorded at 6.00 am on

December 15, 2024

1.8 Summary of Major Plant performance

December 14, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	454
Old Laxapana	54	54	53	1,113
Canyon	60	60	41	271
New Laxapana	100	100	80	1,052
Polpitiya	90	90	71	1,230
Broadlands	35	35	17	301
Kotmale	201	201	135	2,190
Victoria	210	240	244	4,021
Randenigala	120	110	119	1,883
Rantambe	50	50	37	963
Ukuwela	40	40	37	522
Bowatenna	40	40	40	629
Upper Kotmale	150	150	154	3,145
Nilambe	3	3	0	60
Samanalawewa	120	120	39	561
Kukule	75	75	78	841
Uma Oya	120	98	98	2,346
Inginigala	9	7	3	0
Udawalawe	4	3	0	75
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	5,568
Puttalam Coal III	270	270	249	4,196
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	0	0
Barge CEB	60	60	0	108
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	2,103	37,708

Note-

Plant availability is the availability recorded at 6 am on

December 15, 2024

1.9 Contribution to the Night Peak in MW

December 14, 2024

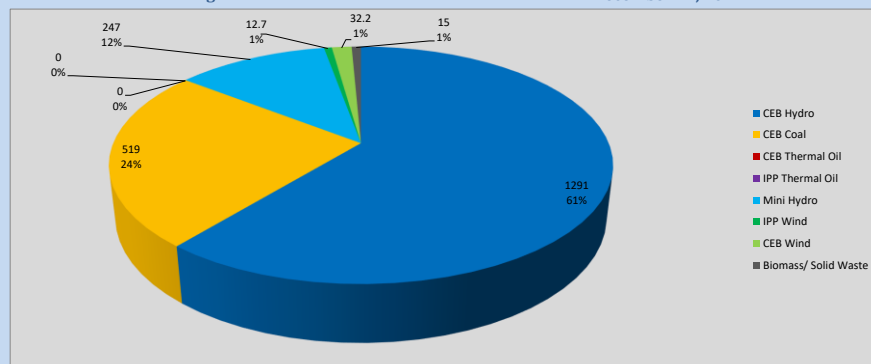


Table 05

CEB Hydro	1291	MW
CEB Coal	519	MW
CEB Thermal Oil	0	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	247	MW
IPP Wind	12.7	MW
CEB Wind	32.2	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

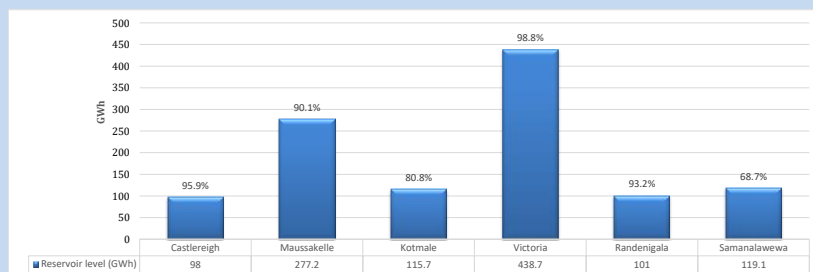
Table 06

Night Peak*	2,117	MW
Day Peak Maximum Demand	1,789	MW
Day Peak Minimum Demand	1,205	MW
Off Peak Minimum Demand	1,381	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 15, 2024



Total Reservoir Level
% of Total capacity

1149.7 GWh
89.9%

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

December 14, 2024

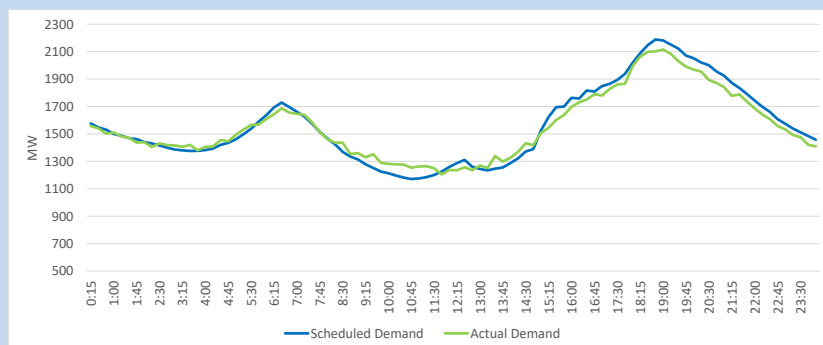
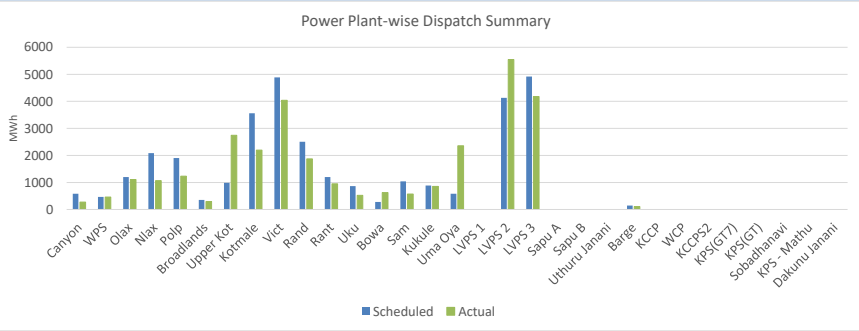


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	23,370	21,656	(1,714)
CEB Coal	9,046	9,764	718
CEB Thermal Oil	146	108	(38)
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	4,995	6,179	1,184
Total	37,558	37,707	149

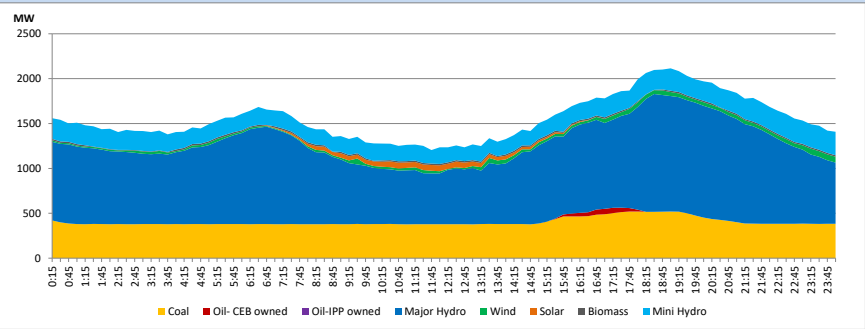
1.12 Power Plant-wise Dispatch Summary

December 14, 2024



1.13 Daily Load Curve

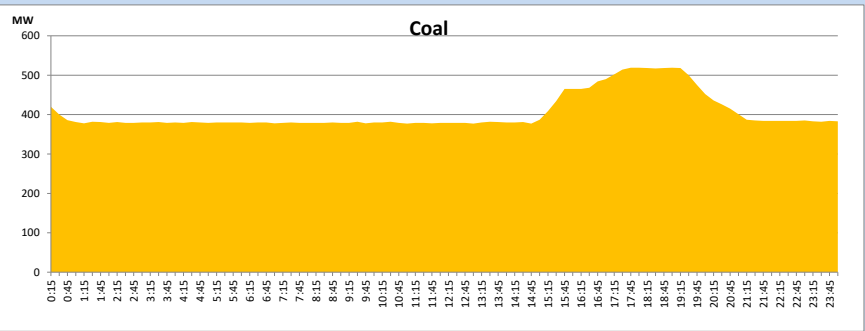
December 14, 2024



Solar and wind data is based on Telemetered Power Stations only

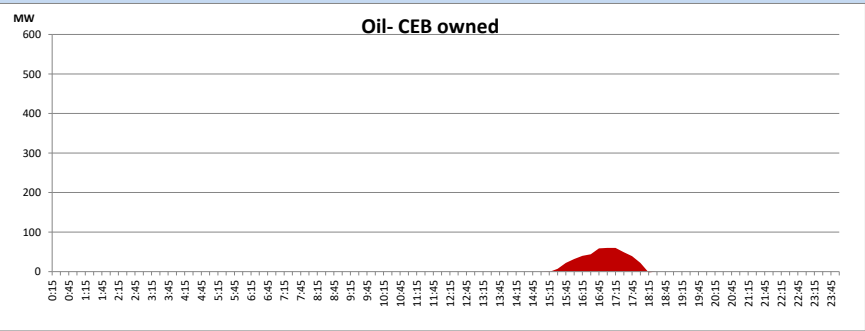
Coal Generation during

December 14, 2024



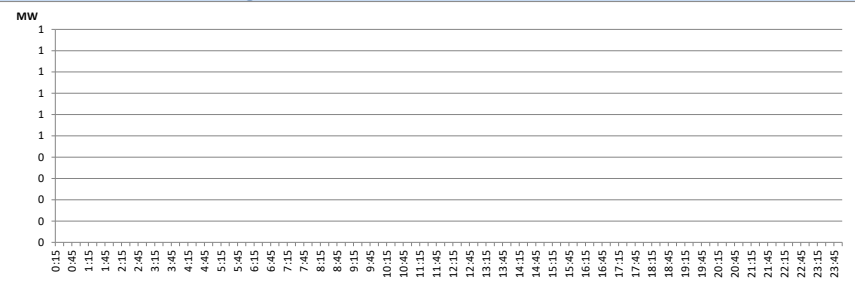
CEB Oil Plant Generation during

December 14, 2024



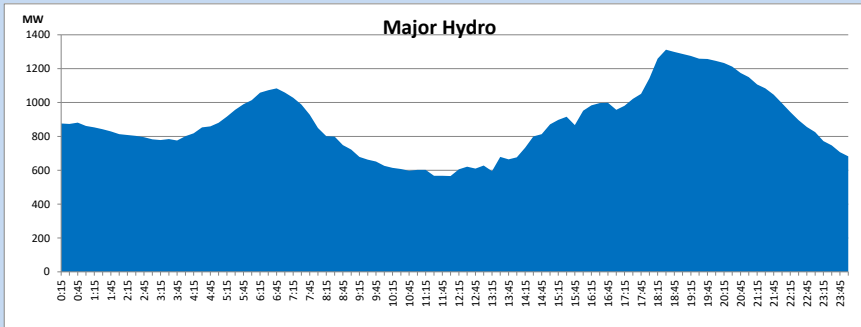
IPP Oil Plant Generation during

December 14, 2024



Major Hydro Generation during

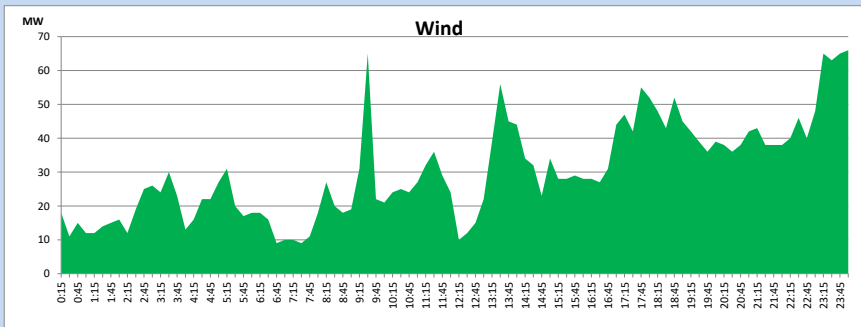
December 14, 2024



Wind Generation during

December 14, 2024

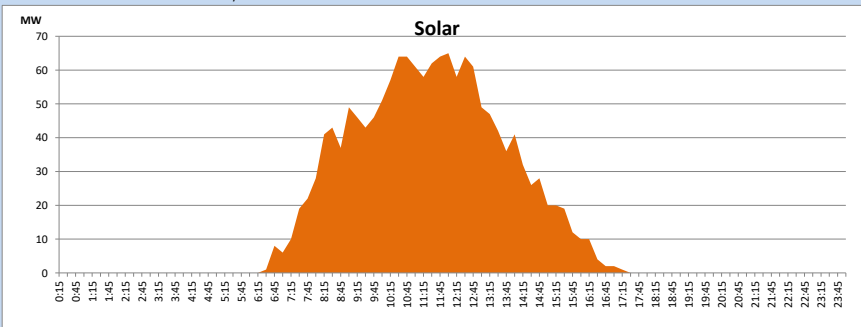
Based on Telemetered Power Stations only



Solar Generation during

December 14, 2024

Based on Telemetered Power Stations only

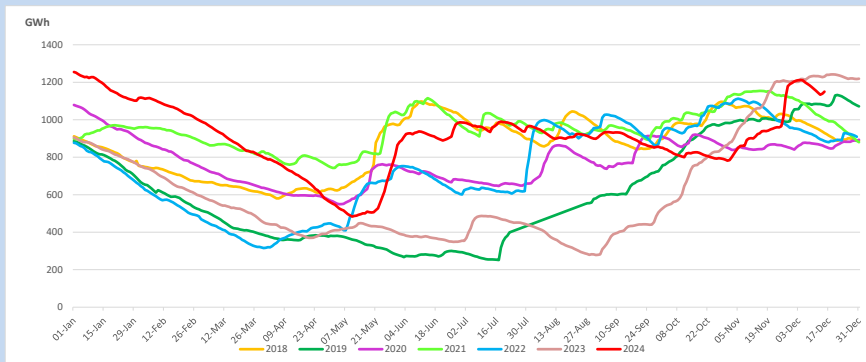


1.14 Major Incidents reported during the day

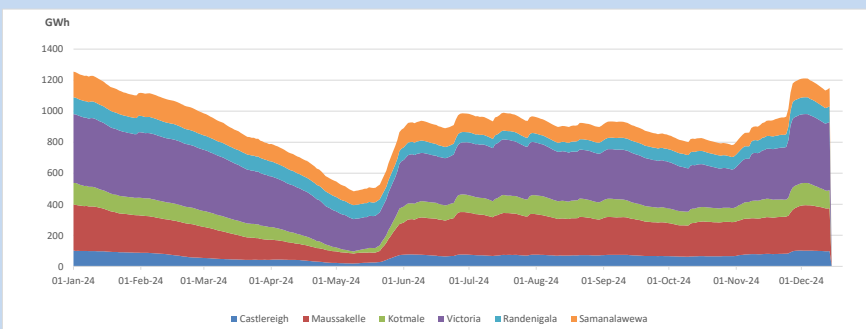
December 14, 2024

- 1) Kiribathkumbura - Ukuwela 132kV cct 01 tripped from both ends and Kiribathkumbura - Polpitiya 132kV cct tripped and A/R from both ends simultaneously at 13:28hrs due to the operation of differential protection. Kiribathkumbura - Ukuwela 132kV cct 01 was normalized at 13:49hrs.
- 2) Ukuwela unit 02 which had been made unavailable due to intake blockage on 13.12.2024 was made available for generation at 15:40hrs.
- 3) Panadura 132/33kV T/F 02 manually switched off from 33kV end at 03:32hrs (15.12.2024) due to SF6 low alarm. The T/F is yet to be normalized.
- 4) Bellatta - Embilipitiya 132kV cct tripped and A/R from both ends at 05:23hrs (15.12.2024) due to the operation of distance protection.
- 5) Ampara - Mahiyanganaya 132kV cct tripped from Mahiyanganaya end and A/R from Ampara end at 05:48hrs (15.12.2024) due to the operation of distance protection. The cct. was normalized at 06:04hrs (15.12.2024).
- 6) Kukleganga Pond spilling started at 22:00hrs and spilling continues to the present hour.
- 7) Uma Oya Dyraaba pond and Puhulpola ponds spilled intermittently. Dyraaba pond spilling stopped at 02:55hrs (15.12.2024) and Puhulpola pond spilling continues to the present hour.

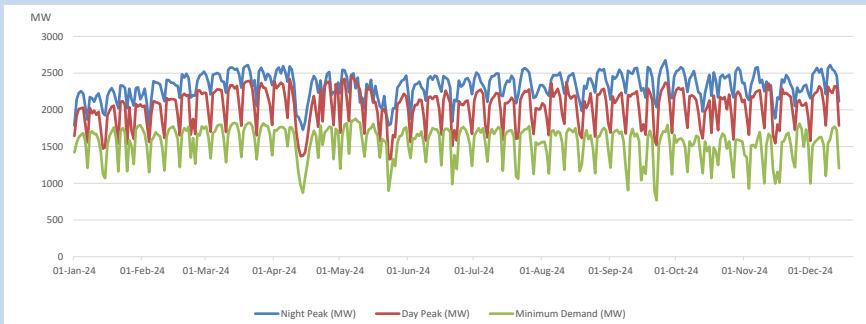
2. Comparison of Total Reservoir Storage Levels with Past Years



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

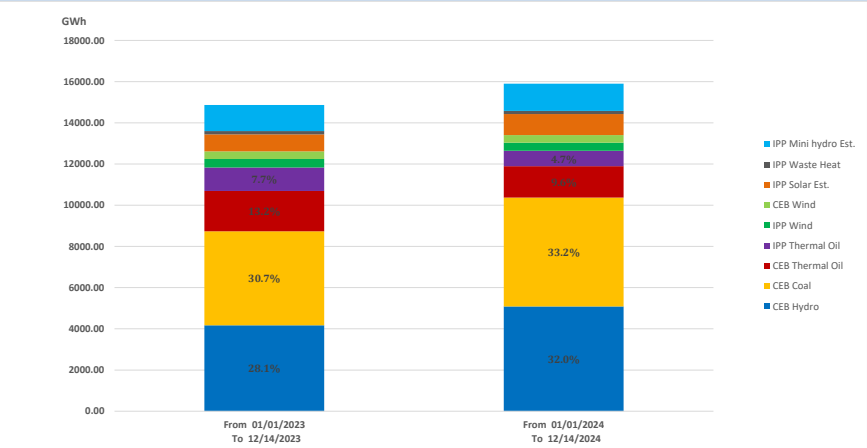


4. Variation of Demand during the current year



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 12/14/2023 14868 GWh
From 01/01/2024 To 12/14/2024 15897 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