

Generation and Reservoirs Statistics

December 13, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 13, 2024

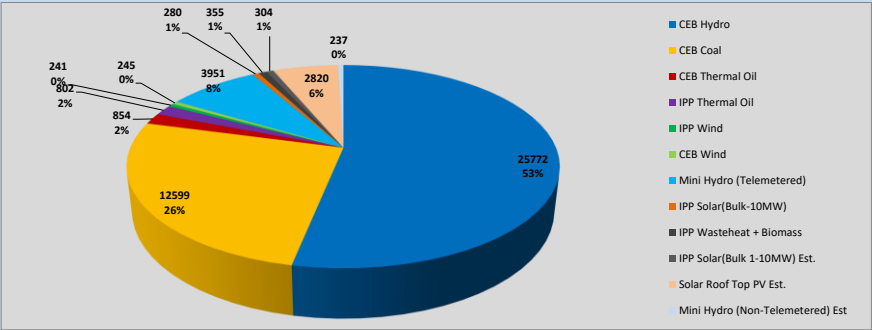


Table 01

	Generation (MWh)
CEB Hydro	25,772
CEB Coal	12,599
CEB Thermal Oil	854
IPP Thermal Oil	802
IPP Wind	241
CEB Wind	245
Mini Hydro (Telemetered)	3,951
IPP Solar (Bulk)	280
IPP Waste heat + Biomass	355
Total Generation (Excluding estimated figures)	45,099
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	237
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	48,460

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	326	54.57%
CEB Coal	125	20.97%
CEB Thermal Oil	8	1.28%
IPP Thermal	13	2.09%
IPP Wind	8	1.33%
CEB Wind	8	1.31%
Mini Hydro *	61	10.19%
IPP Solar *	44	7.37%
IPP Waste heat + BMP	5	0.89%
Total	598	

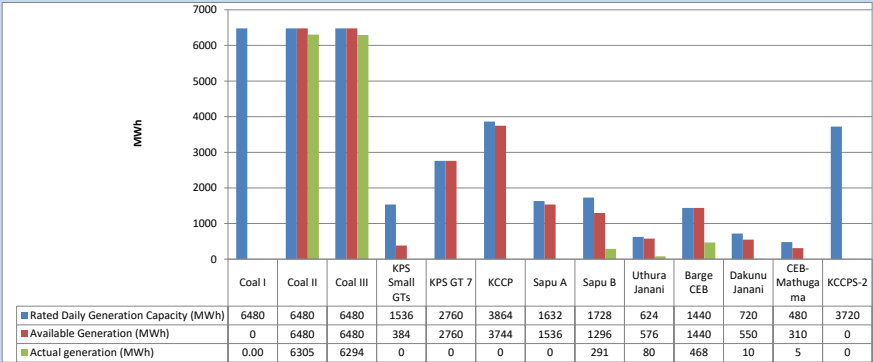
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,064	31.94%
CEB Coal	5,276	33.27%
CEB Thermal Oil	1,520	9.58%
IPP Thermal	748	4.72%
IPP Wind	391	2.47%
CEB Wind	374	2.36%
Mini Hydro *	1,316	8.30%
IPP Solar *	1,016	6.41%
IPP Waste heat	151	0.95%
Total	15,856	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 13, 2024

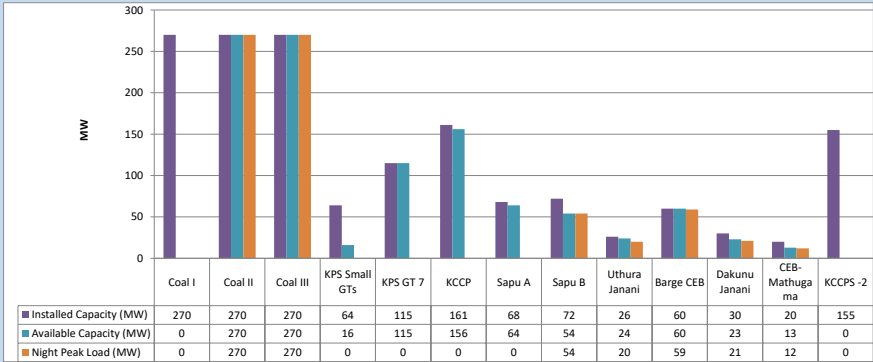


Available Generation is estimated based on plant availability at 6.00am on

December 14, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 13, 2024

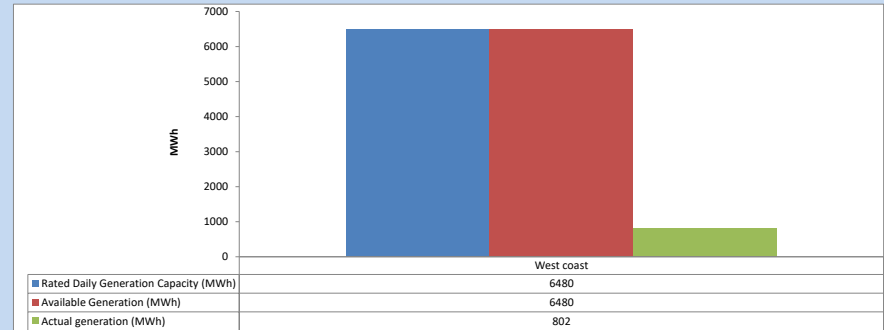


Plant availability is recorded at 6.00 am on

December 14, 2024

1.4 IPP owned Thermal Plant Dispatch

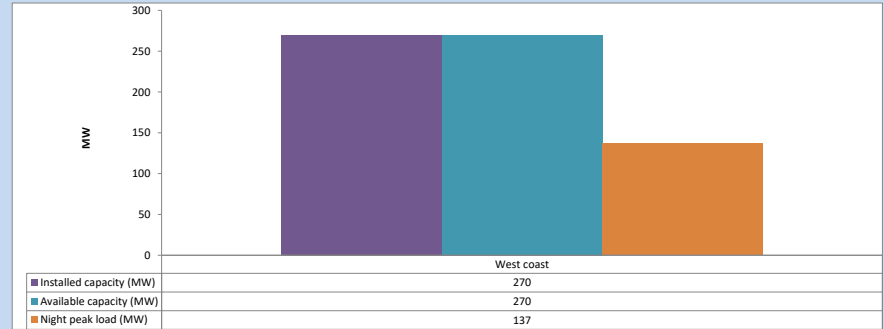
December 13, 2024



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

December 14, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

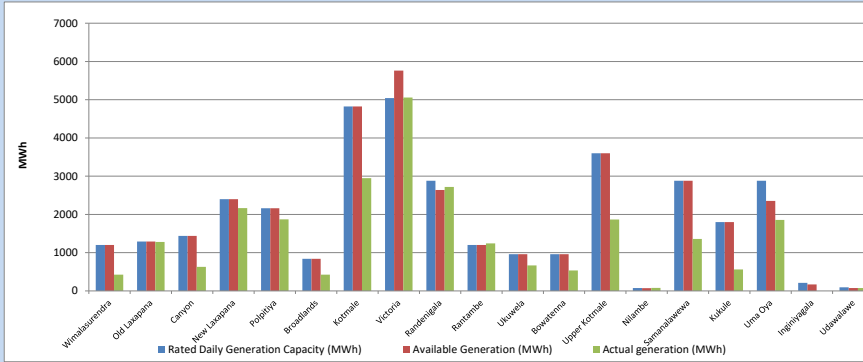


Plant availability is recorded at 6.00 am on

December 14, 2024

1.6 Major Hydro Plant Dispatch

December 13, 2024

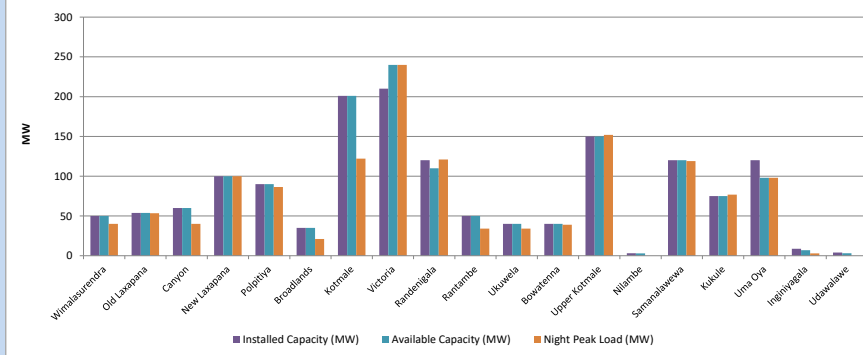


Available Generation is estimated based on plant availability at 6.00am on

December 14, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 13, 2024



Plant availability is recorded at 6.00 am on

December 14, 2024

1.8 Summary of Major Plant performance

December 13, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	40	426
Old Laxapana	54	54	54	1,281
Canyon	60	60	40	630
New Laxapana	100	100	100	2,167
Polpitiya	90	90	86	1,870
Broadlands	35	35	21	426
Kotmale	201	201	122	2,950
Victoria	210	240	240	5,058
Randenigala	120	110	121	2,720
Rantambe	50	50	34	1,244
Ukuwela	40	40	34	665
Bowatenna	40	40	39	536
Upper Kotmale	150	150	152	1,868
Nilambe	3	3	0	78
Samanalawewa	120	120	119	1,361
Kukule	75	75	77	561
Uma Oya	120	98	98	1,855
Inginigala	9	7	3	0
Udawalawe	4	3	0	77
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,305
Puttalam Coal III	270	270	270	6,294
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	54	291
Uthura Janani	26	24	20	80
Barge CEB	60	60	59	468
CEB-Hambantota	30	23	21	10
CEB-Mathugama	20	13	12	5
KCCPS-2	155	0	0	0
West Coast	270	270	137	802
Sobadhanavi	220	212	0	0
Total	3,602	2,861	2,443	45,100

Note-

Plant availability is the availability recorded at 6 am on

December 14, 2024

1.9 Contribution to the Night Peak in MW

December 13, 2024

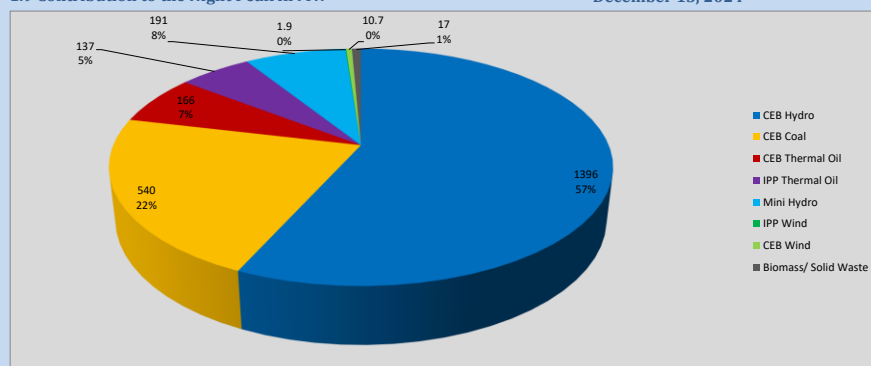


Table 05

CEB Hydro	1396	MW
CEB Coal	540	MW
CEB Thermal Oil	166	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	191	MW
IPP Wind	1.9	MW
CEB Wind	10.7	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

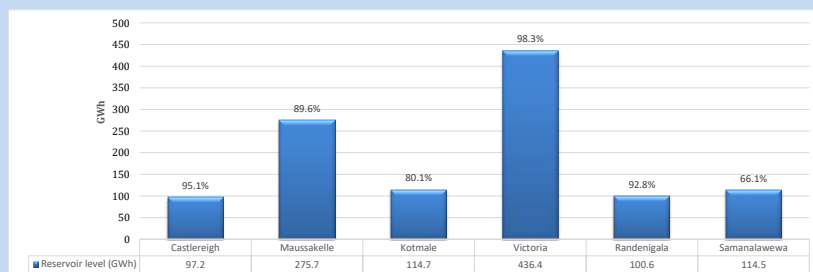
Table 06

Night Peak*	2,459	MW
Day Peak Maximum Demand	2,318	MW
Day Peak Minimum Demand	1,724	MW
Off Peak Minimum Demand	1,416	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 14, 2024



Total Reservoir Level
% of Total capacity

1139.1 GWh
89.1%

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

December 13, 2024

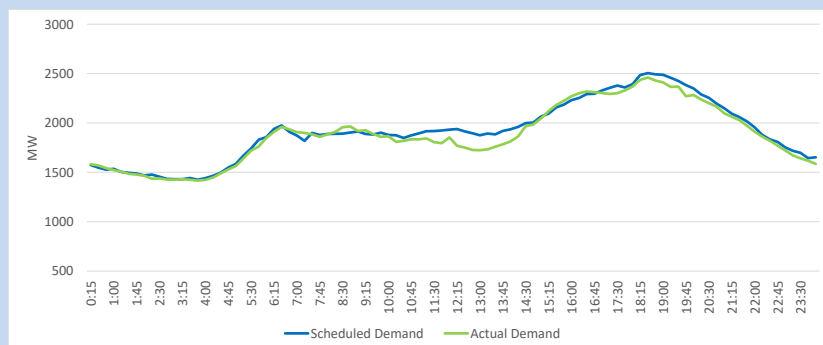
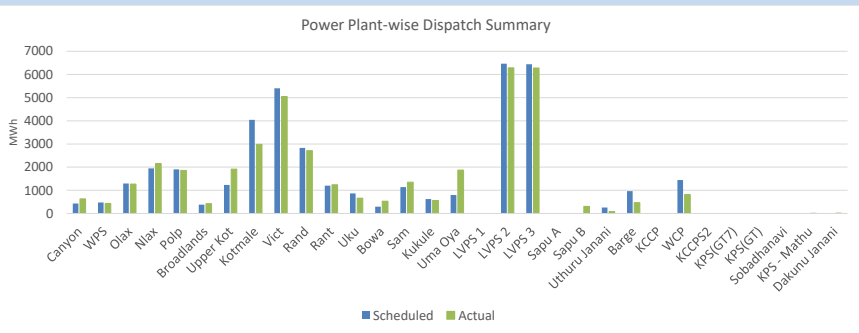


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	24,846	25,772	926
CEB Coal	12,908	12,599	(309)
CEB Thermal Oil	1,222	854	(368)
IPP Thermal Oil	1,443	802	(641)
NCRE (excluding non telemetered power plants)	5,472	5,072	(400)
Total	45,890	45,099	(791)

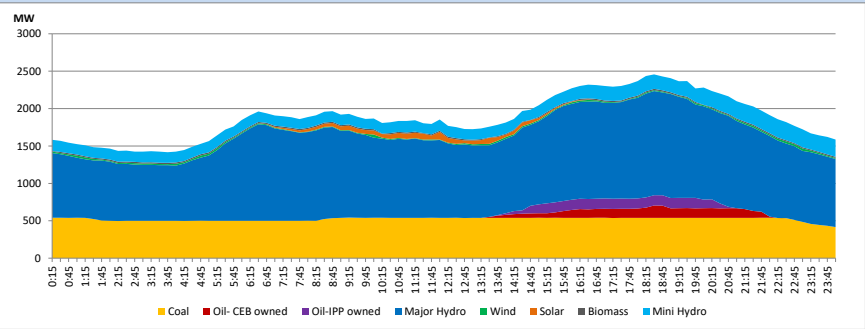
1.12 Power Plant-wise Dispatch Summary

December 13, 2024



1.13 Daily Load Curve

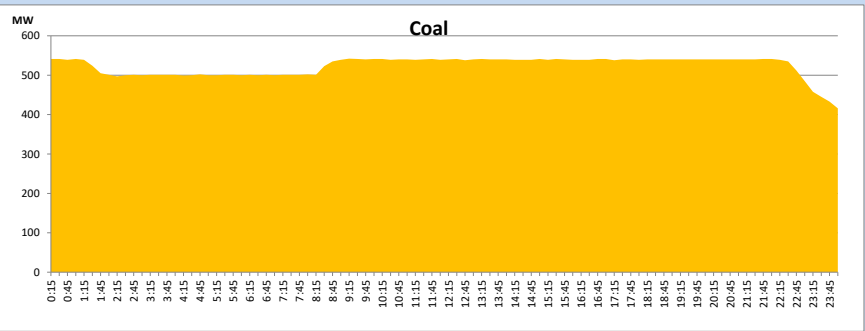
December 13, 2024



Solar and wind data is based on Telemetered Power Stations only

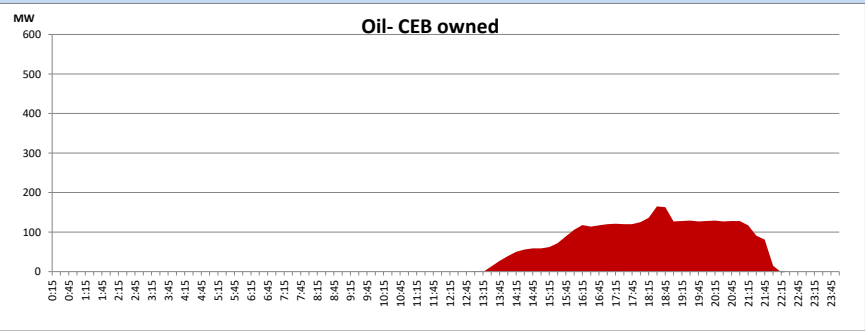
Coal Generation during

December 13, 2024



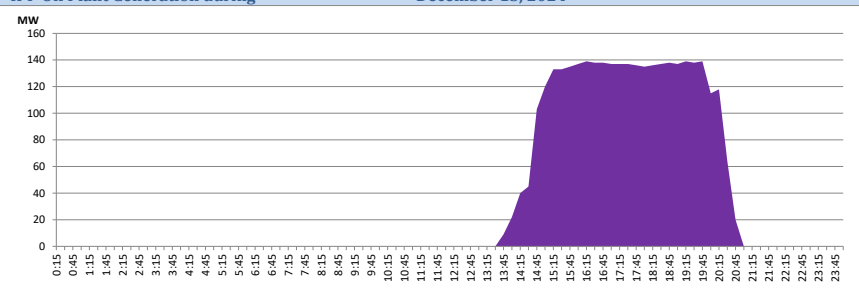
CEB Oil Plant Generation during

December 13, 2024



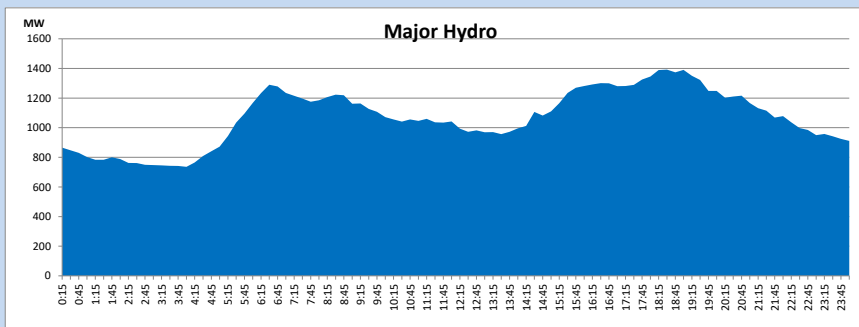
IPP Oil Plant Generation during

December 13, 2024



Major Hydro Generation during

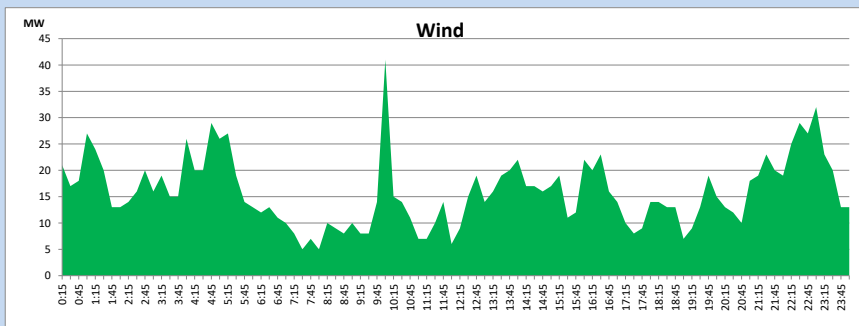
December 13, 2024



Wind Generation during

December 13, 2024

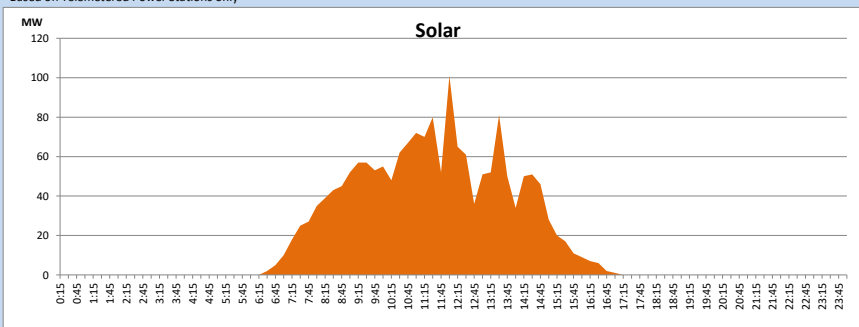
Based on Telemetered Power Stations only



Solar Generation during

December 13, 2024

Based on Telemetered Power Stations only

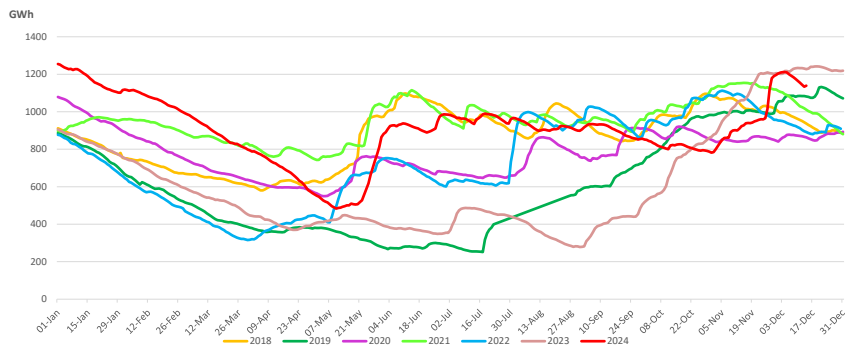


1.14 Major Incidents reported during the day

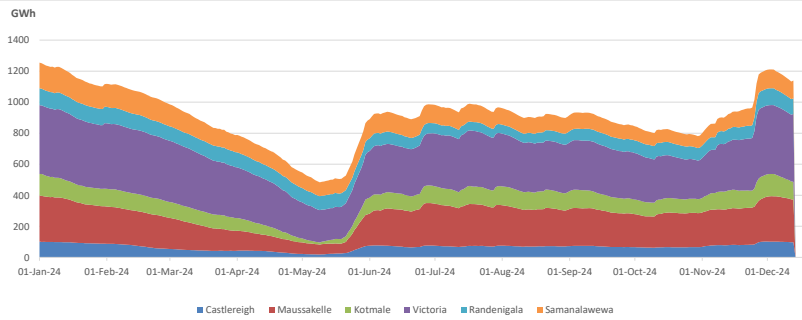
December 13, 2024

- 1) New Anuradhapura - Trincomalee 132kV cct tripped from New Anuradhapura end and tripped & A/R from Trincomalee end at 12:39hrs due to the operation of differential protection. The cct was normalised by 13:48hrs.
- 2) Ukuwela PS both units were made unavailable for generation at 16:10hrs due to the Polgolla intake blockage. Both units resumed generation by 17:39hrs. Again Ukuwela PS unit 01 & unit 02 were made unavailable for generation due to the Polgolla intake blockage at 18:43hrs & 21:09hrs respectively. Ukuwela PS unit 01
- 3) Uma Oya Dyraaba pond & Puhulpola pond spilling started at 20:25hrs & 20:55hrs respectively. Puhulpola pond spilling stopped at 04:35hrs (14.12.2024) and Dyraabapond spilling continues to the present hour.

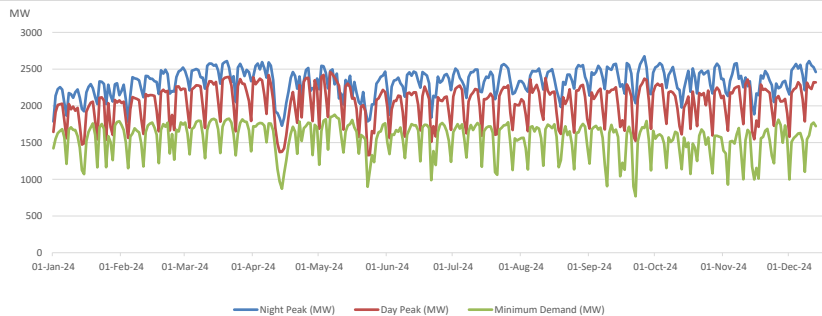
2. Comparison of Total Reservoir Storage Levels with Past Years



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

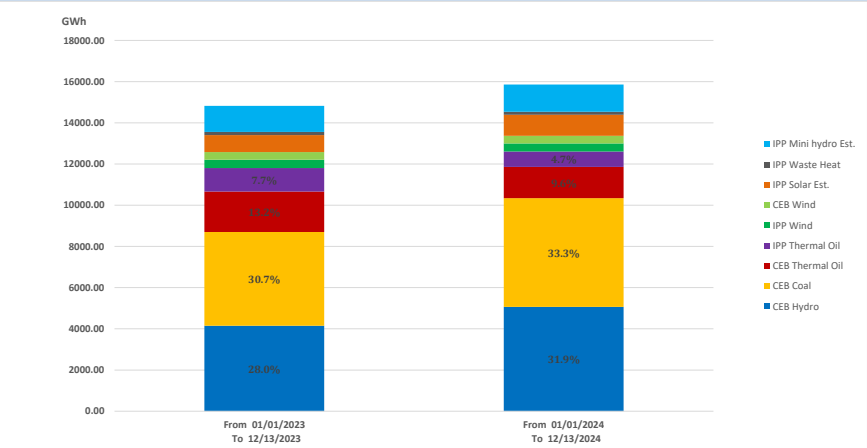


4. Variation of Demand during the current year



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 12/13/2023 14826 GWh
From 01/01/2024 To 12/13/2024 15856 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