

Generation and Reservoirs Statistics

December 30, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 30, 2024

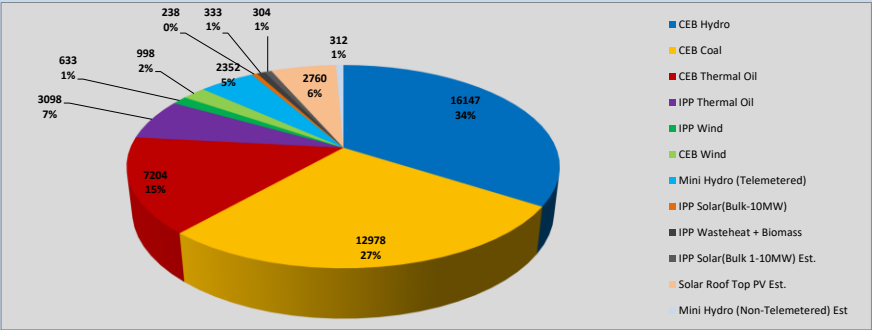


Table 01

	Generation (MWh)
CEB Hydro	16,147
CEB Coal	12,978
CEB Thermal Oil	7,204
IPP Thermal Oil	3,098
IPP Wind	633
CEB Wind	998
Mini Hydro (Telemetered)	2,352
IPP Solar (Bulk)	238
IPP Waste heat + Biomass	333
Total Generation (Excluding estimated figures)	43,981
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	312
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	47,357

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	678	50.05%
CEB Coal	321	23.70%
CEB Thermal Oil	52	3.81%
IPP Thermal	30	2.22%
IPP Wind	15	1.09%
CEB Wind	17	1.24%
Mini Hydro *	130	9.62%
IPP Solar *	92	6.79%
IPP Waste heat + BMP	11	0.79%
Total	1,355	

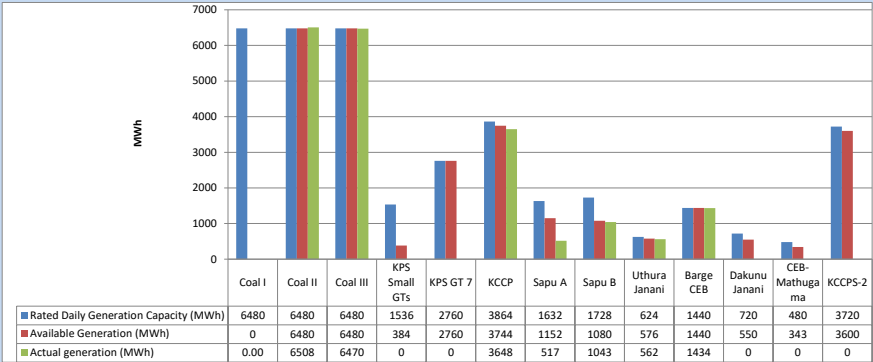
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,416	32.60%
CEB Coal	5,472	32.94%
CEB Thermal Oil	1,564	9.41%
IPP Thermal	766	4.61%
IPP Wind	398	2.40%
CEB Wind	383	2.30%
Mini Hydro *	1,385	8.34%
IPP Solar *	1,073	6.46%
IPP Waste heat	157	0.94%
Total	16,613	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 30, 2024

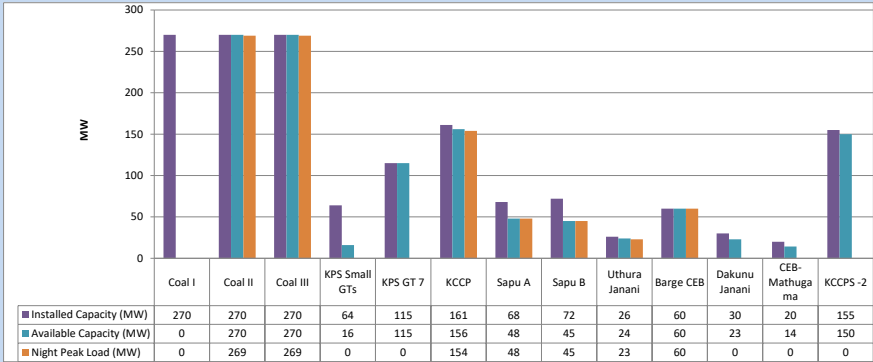


Available Generation is estimated based on plant availability at 6.00am on

December 31, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 30, 2024

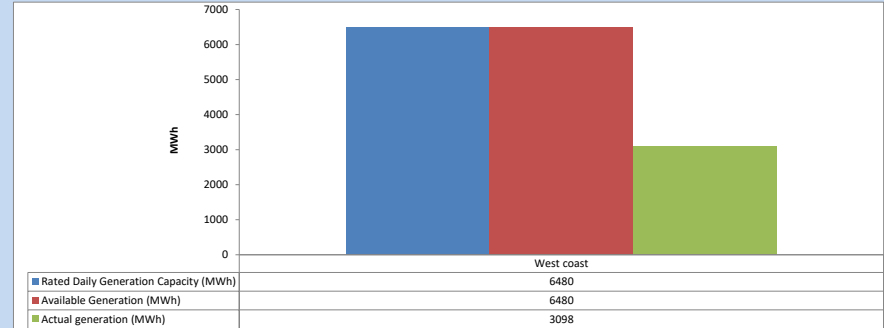


Plant availability is recorded at 6.00 am on

December 31, 2024

1.4 IPP owned Thermal Plant Dispatch

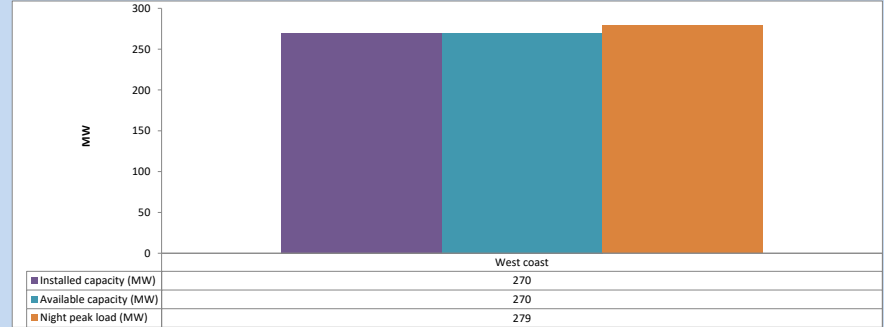
December 30, 2024



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

December 31, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

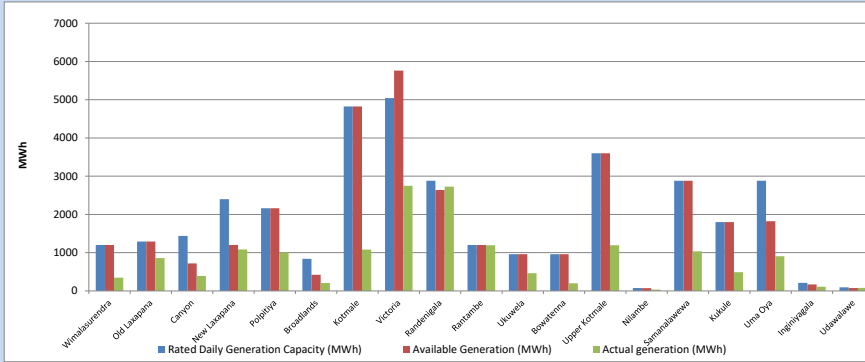


Plant availability is recorded at 6.00 am on

December 31, 2024

1.6 Major Hydro Plant Dispatch

December 30, 2024

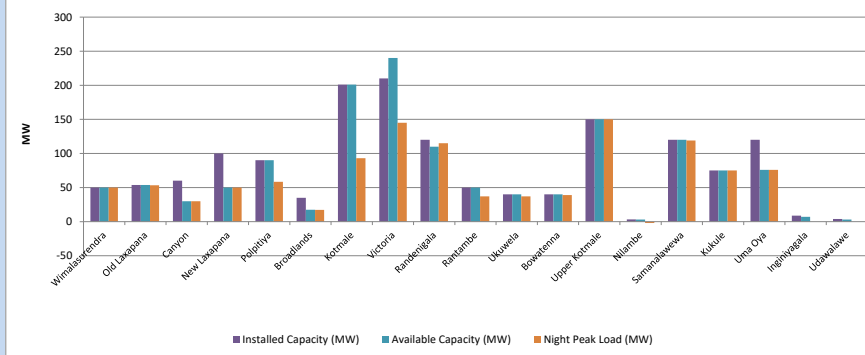


Available Generation is estimated based on plant availability at 6.00am on

December 31, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 30, 2024



Plant availability is recorded at 6.00 am on

December 31, 2024

1.8 Summary of Major Plant performance

December 30, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	345
Old Laxapana	54	54	53	860
Canyon	60	30	30	392
New Laxapana	100	50	50	1,086
Polpitiya	90	90	58	1,000
Broadlands	35	18	17	207
Kotmale	201	201	93	1,080
Victoria	210	240	145	2,748
Randenigala	120	110	115	2,725
Rantambe	50	50	37	1,192
Ukuwela	40	40	37	463
Bowatenna	40	40	39	199
Upper Kotmale	150	150	150	1,194
Nilambe	3	3	-2	35
Samanalawewa	120	120	119	1,036
Kukule	75	75	75	489
Uma Oya	120	76	76	909
Inginigala	9	7	0	109
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,508
Puttalam Coal III	270	270	269	6,470
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	154	3,648
Sapugaskanda A	68	48	48	517
Sapugaskanda B	72	45	45	1,043
Uthura Janani	26	24	23	562
Barge CEB	60	60	60	1,434
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS-2	155	150	0	0
West Coast	270	270	279	3,098
Sobadhanavi	220	212	0	0
Total	3,602	2,868	2,477	43,982

Note-

Plant availability is the availability recorded at 6 am on

December 31, 2024

1.9 Contribution to the Night Peak in MW

December 30, 2024

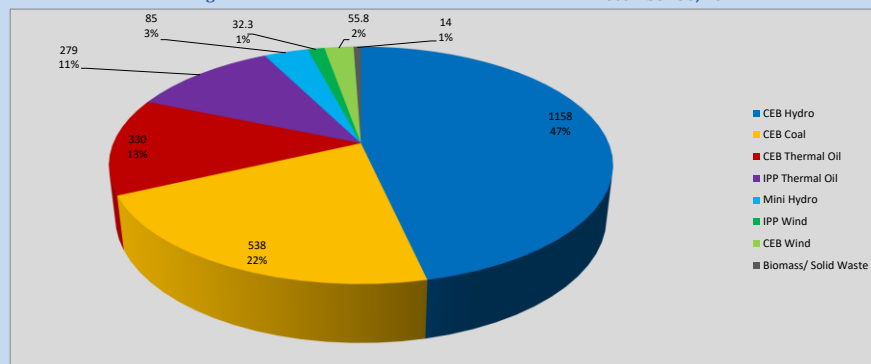


Table 05

CEB Hydro	1,158	MW
CEB Coal	538	MW
CEB Thermal Oil	330	MW
IPP Thermal Oil	279	MW
Mini Hydro (Telemetered)	85	MW
IPP Wind	32.3	MW
CEB Wind	55.8	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

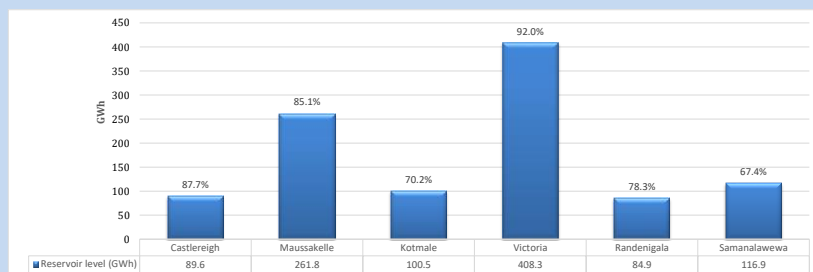
Table 06

Night Peak*	2,492	MW
Day Peak Maximum Demand	2,235	MW
Day Peak Minimum Demand	1,711	MW
Off Peak Minimum Demand	1,337	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 31, 2024



Total Reservoir Level
% of Total capacity

1,062 GWh
83.1%

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

December 30, 2024

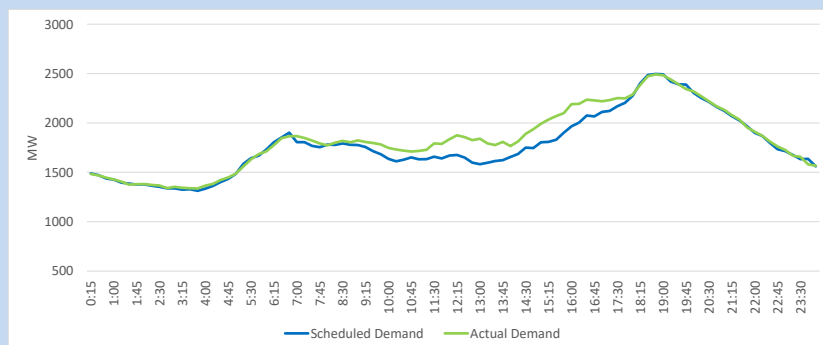
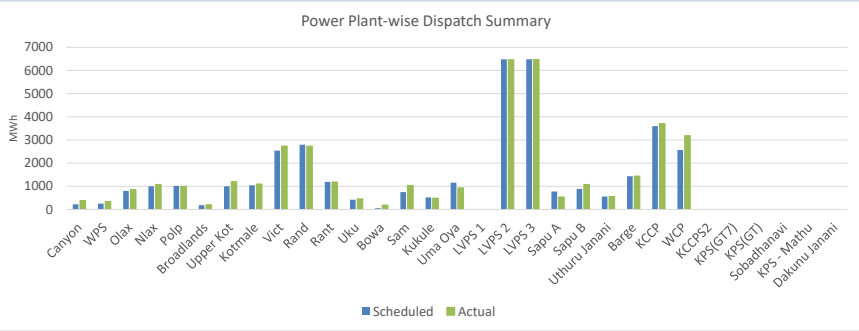


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	14,952	16,147	1,195
CEB Coal	12,960	12,978	18
CEB Thermal Oil	7,251	7,204	(47)
IPP Thermal Oil	2,567	3,098	531
NCRE (excluding non telemetered power plants)	4,796	4,554	(242)
Total	42,526	43,981	1,455

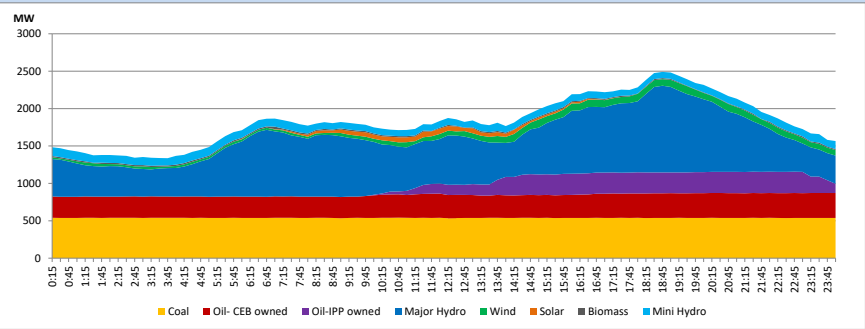
1.12 Power Plant-wise Dispatch Summary

December 30, 2024



1.13 Daily Load Curve

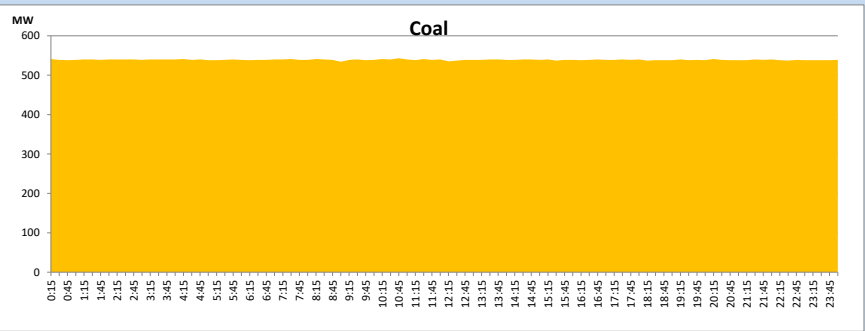
December 30, 2024



Solar and wind data is based on Telemetered Power Stations only

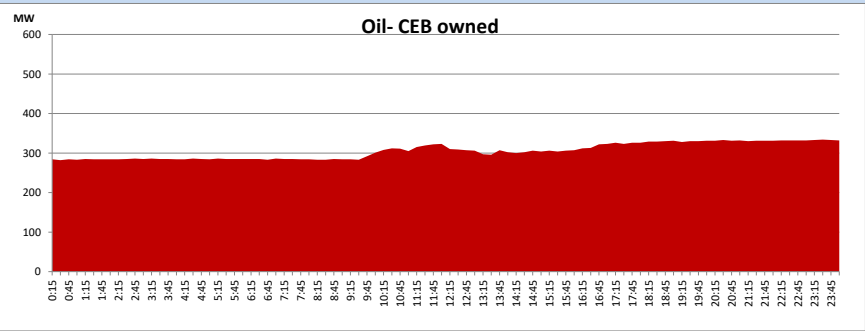
Coal Generation during

December 30, 2024



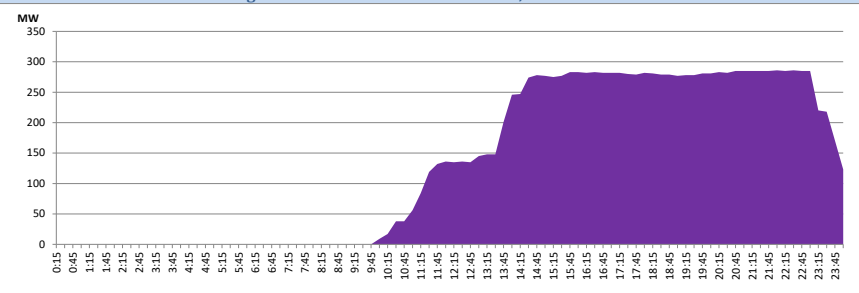
CEB Oil Plant Generation during

December 30, 2024



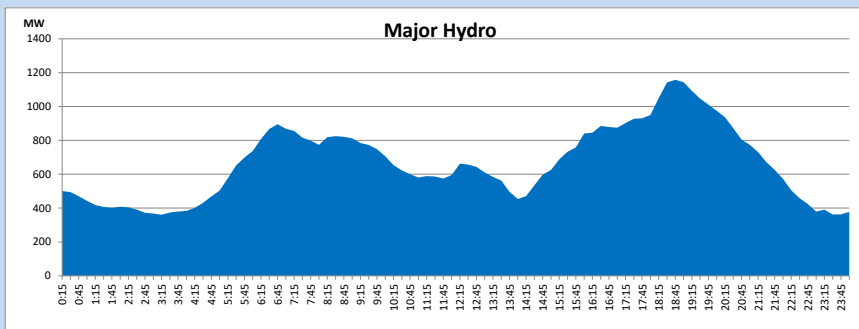
IPP Oil Plant Generation during

December 30, 2024



Major Hydro Generation during

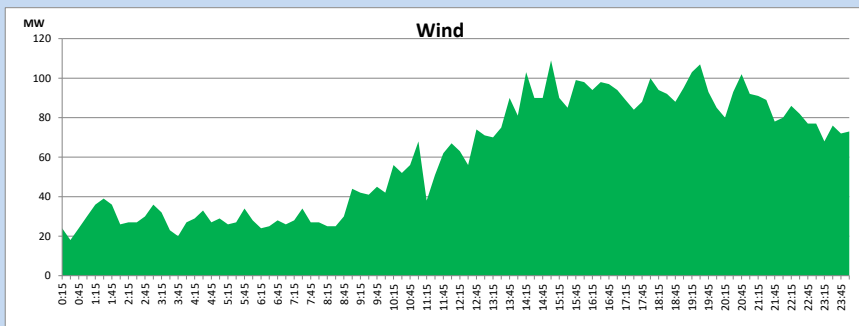
December 30, 2024



Wind Generation during

December 30, 2024

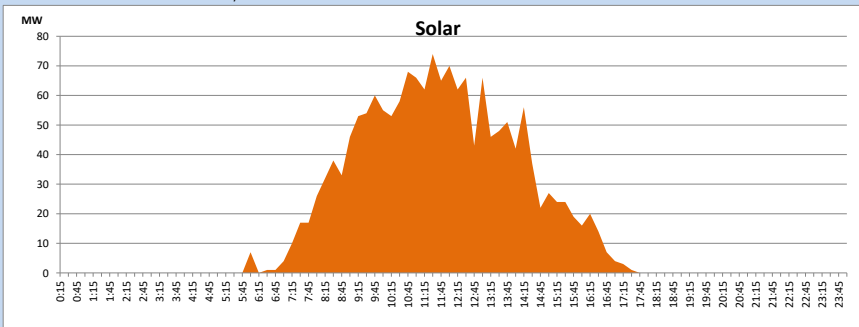
Based on Telemetered Power Stations only



Solar Generation during

December 30, 2024

Based on Telemetered Power Stations only

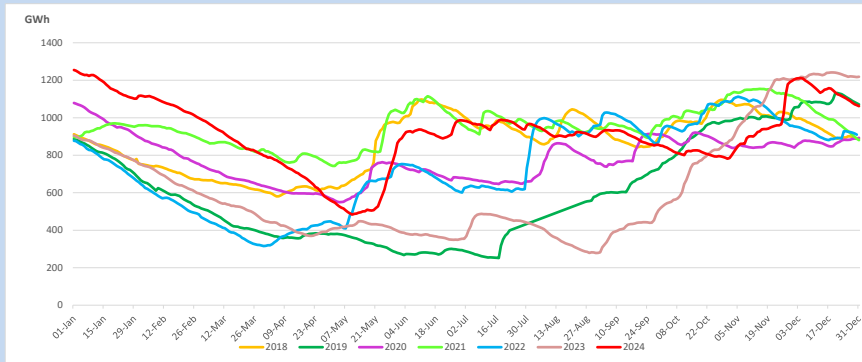


1.14 Major Incidents reported during the day

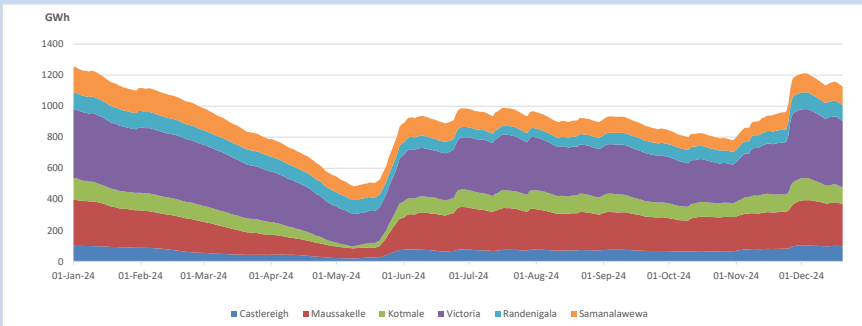
December 30, 2024

- 1) Balangoda - Ratnapura 132kV cct tripped from Ratnapura end and tripped & A/R from Balangoda end at 06:01hrs due to the operation of distance protection. The cct was normalized at 06:15hrs.
- 2) Canyon Unit 02 was released for annual maintenance from 08:36hrs.
- 3) Broadlands Unit 01 was made unavailable from 08:51hrs due to governor servo motor malfunction and runner inspection.
- 4) Chunnakam - Kilinochchi 132kV cct 01 which tripped on 29.12.2024, was normalized at 21:31hrs.

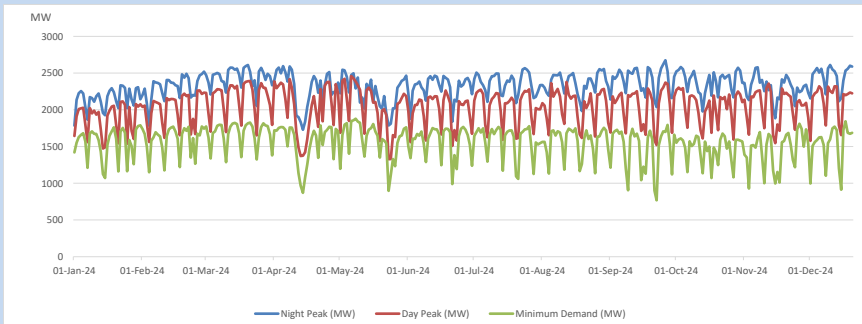
2. Comparison of Total Reservoir Storage Levels with Past Years



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

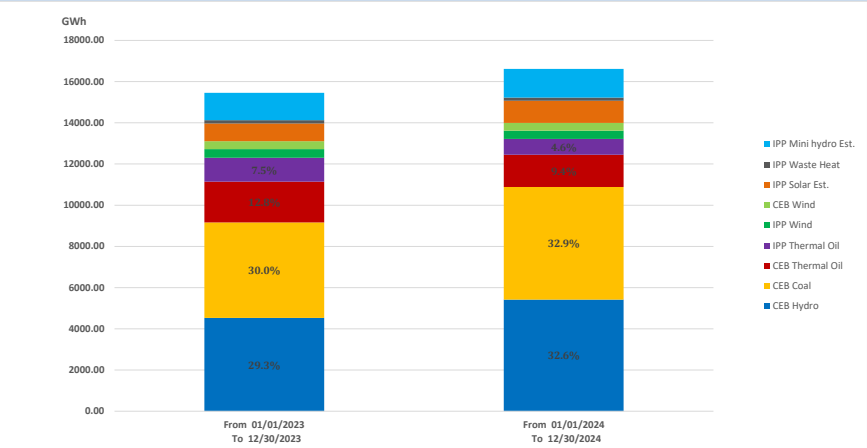


4. Variation of Demand during the current year



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 12/30/2023 15,456 GWh
From 01/01/2024 To 12/30/2024 16,613 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