

Generation and Reservoirs Statistics

December 17, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 17, 2024

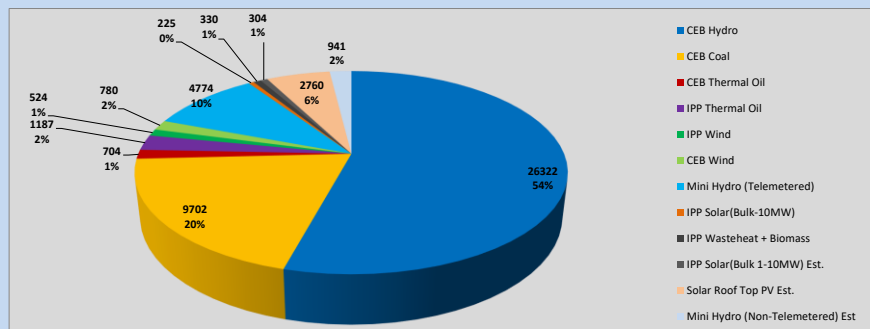


Table 01

	Generation (MWh)
CEB Hydro	26,322
CEB Coal	9,702
CEB Thermal Oil	704
IPP Thermal Oil	1,187
IPP Wind	524
CEB Wind	780
Mini Hydro (Telemetered)	4,774
IPP Solar (Bulk)	225
IPP Waste heat + Biomass	330
Total Generation (Excluding estimated figures)	44,548
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	941
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	48,553

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	416	53.92%
CEB Coal	163	21.11%
CEB Thermal Oil	9	1.18%
IPP Thermal	14	1.88%
IPP Wind	11	1.47%
CEB Wind	12	1.54%
Mini Hydro *	82	10.62%
IPP Solar *	57	7.42%
IPP Waste heat + BMP	7	0.86%
Total	772	

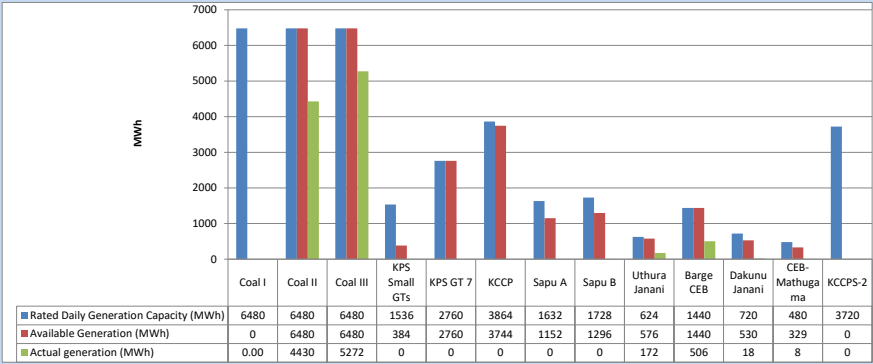
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,154	32.16%
CEB Coal	5,314	33.15%
CEB Thermal Oil	1,521	9.49%
IPP Thermal	750	4.68%
IPP Wind	395	2.46%
CEB Wind	378	2.36%
Mini Hydro *	1,337	8.34%
IPP Solar *	1,029	6.42%
IPP Waste heat	152	0.95%
Total	16,030	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 17, 2024

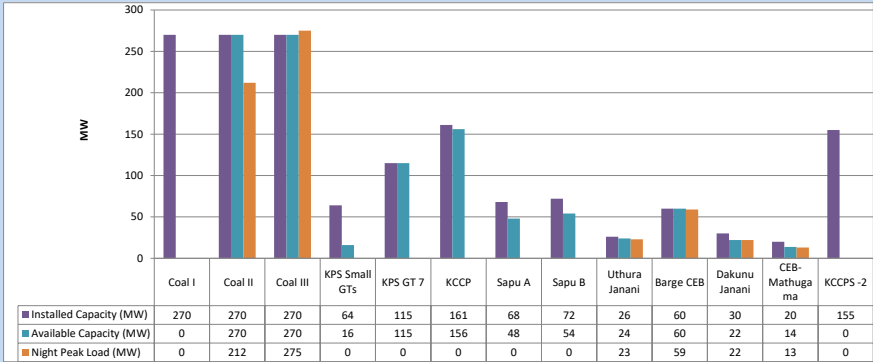


Available Generation is estimated based on plant availability at 6.00am on

December 18, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 17, 2024

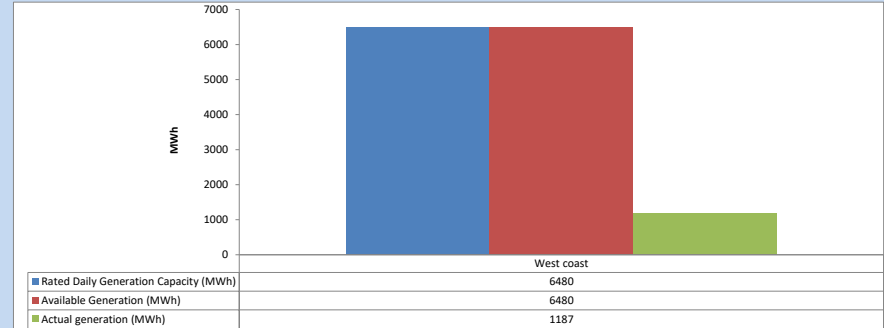


Plant availability is recorded at 6.00 am on

December 18, 2024

1.4 IPP owned Thermal Plant Dispatch

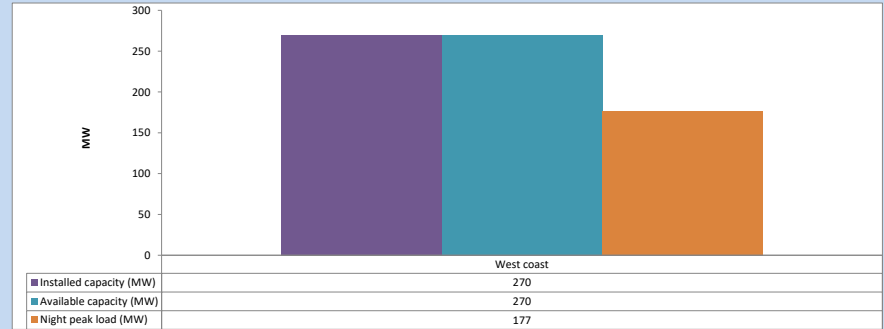
December 17, 2024



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

December 18, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

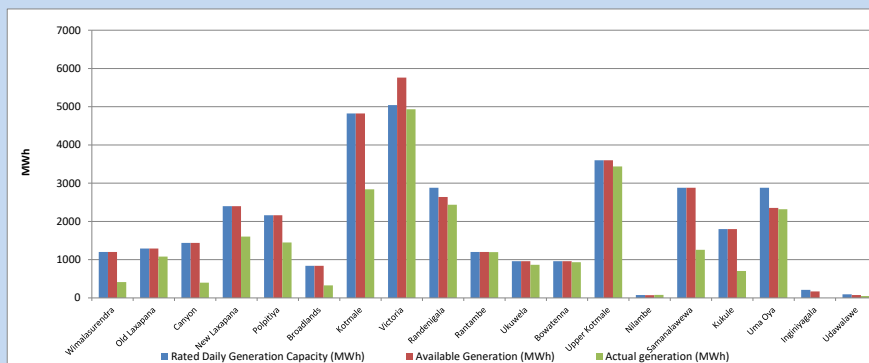


Plant availability is recorded at 6.00 am on

December 18, 2024

1.6 Major Hydro Plant Dispatch

December 17, 2024

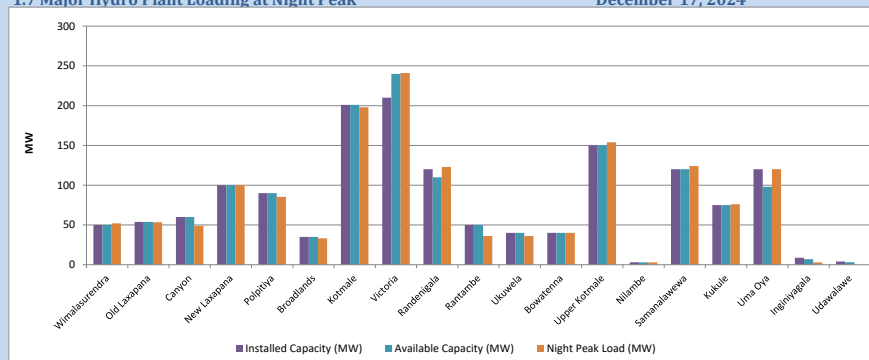


Available Generation is estimated based on plant availability at 6.00am on

December 18, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 17, 2024



Plant availability is recorded at 6.00 am on

December 18, 2024

1.8 Summary of Major Plant performance

December 17, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	414
Old Laxapana	54	54	54	1,080
Canyon	60	60	49	398
New Laxapana	100	100	100	1,605
Polpitiya	90	90	85	1,450
Broadlands	35	35	33	326
Kotmale	201	201	198	2,840
Victoria	210	240	241	4,934
Randenigala	120	110	123	2,435
Rantambe	50	50	36	1,196
Ukuwela	40	40	36	865
Bowatenna	40	40	40	935
Upper Kotmale	150	150	154	3,437
Nilambe	3	3	3	79
Samanalawewa	120	120	124	1,257
Kukule	75	75	76	704
Uma Oya	120	98	120	2,319
Inginigala	9	7	3	0
Udawalawe	4	3	0	49
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	212	4,430
Puttalam Coal III	270	270	275	5,272
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	23	172
Barge CEB	60	60	59	506
CEB-Hambantota	30	22	22	18
CEB-Mathugama	20	14	13	8
KCCPS-2	155	0	0	0
West Coast	270	270	177	1,187
Sobadhanavi	220	212	0	0
Total	3,602	2,845	2,516	44,549

Note-

Plant availability is the availability recorded at 6 am on

December 18, 2024

1.9 Contribution to the Night Peak in MW

December 17, 2024

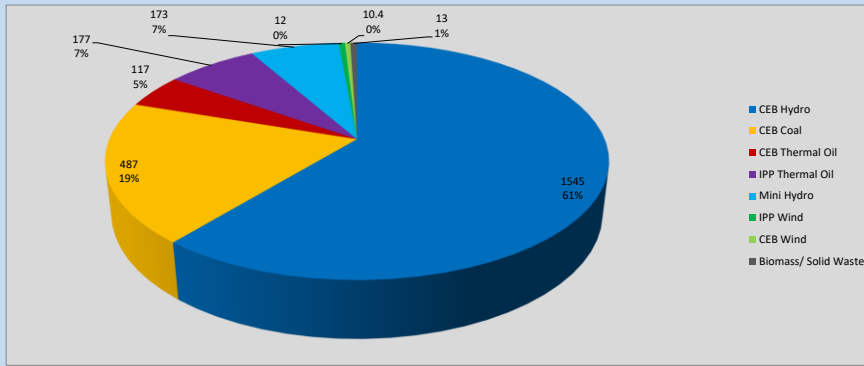


Table 05

CEB Hydro	1,545	MW
CEB Coal	487	MW
CEB Thermal Oil	117	MW
IPP Thermal Oil	177	MW
Mini Hydro (Telemetered)	173	MW
IPP Wind	12	MW
CEB Wind	10.4	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

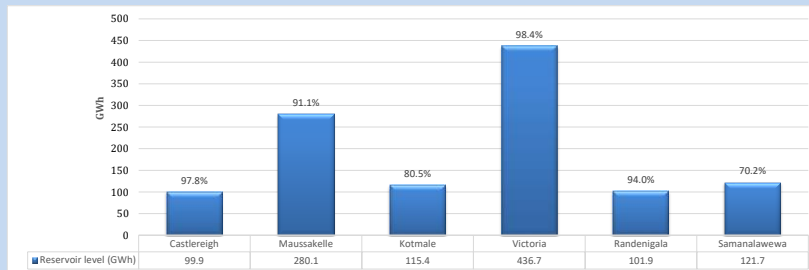
Table 06

Night Peak*	2,534	MW
Day Peak Maximum Demand	2,200	MW
Day Peak Minimum Demand	1,845	MW
Off Peak Minimum Demand	1,347	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 18, 2024



Total Reservoir Level
% of Total capacity

1,156 GWh
90.4%

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

December 17, 2024

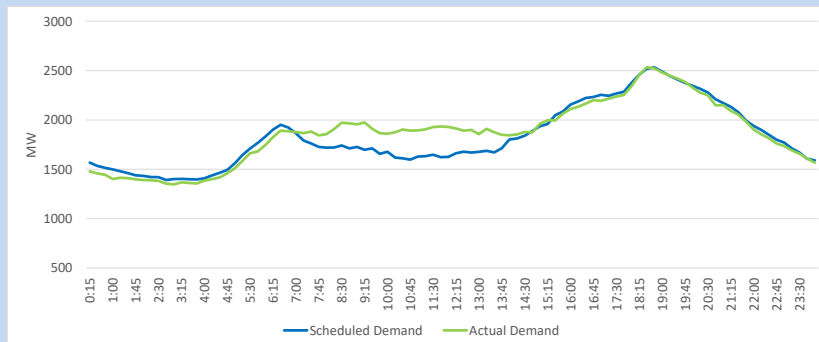
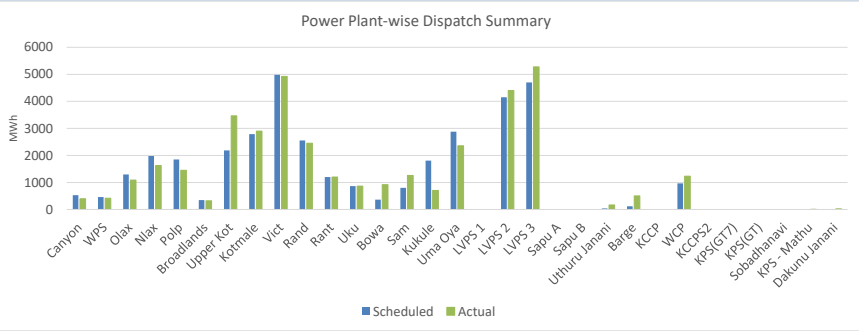


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	26,871	26,322	(549)
CEB Coal	8,852	9,702	850
CEB Thermal Oil	157	704	547
IPP Thermal Oil	964	1,187	223
NCRE (excluding non telemetered power plants)	6,982	6,633	(349)
Total	43,827	44,548	721

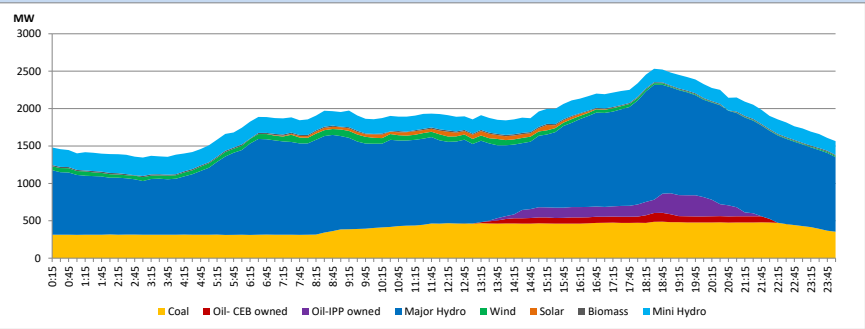
1.12 Power Plant-wise Dispatch Summary

December 17, 2024



1.13 Daily Load Curve

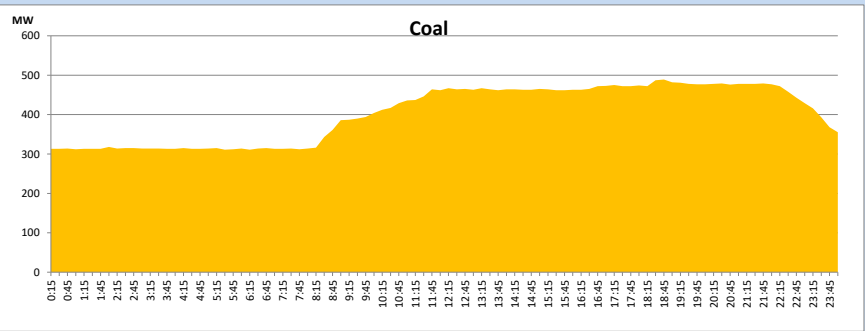
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Solar and wind data is based on Telemetered Power Stations only

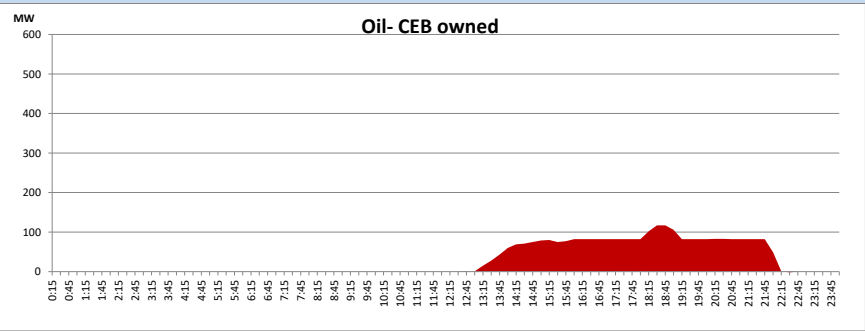
Coal Generation during

December 17, 2024



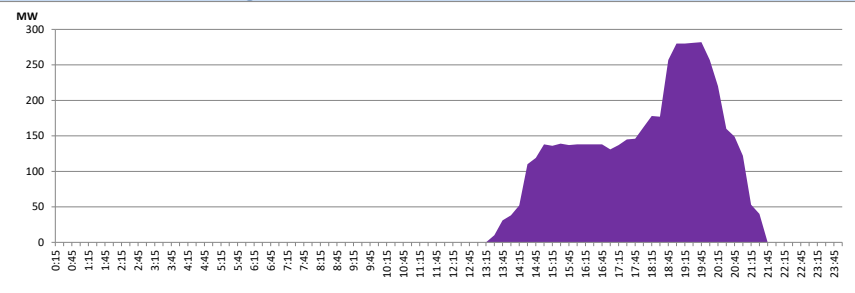
CEB Oil Plant Generation during

December 17, 2024



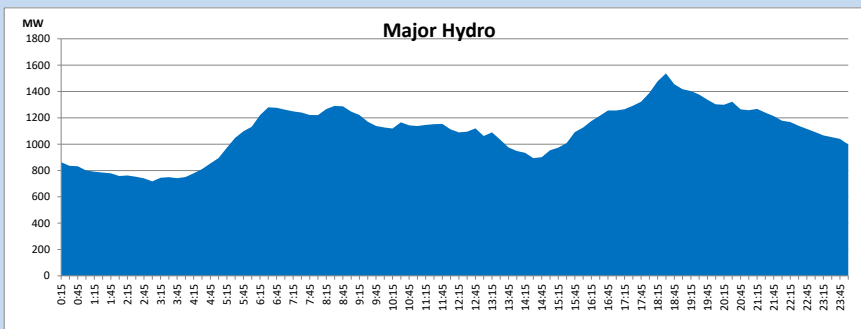
IPP Oil Plant Generation during

December 17, 2024



Major Hydro Generation during

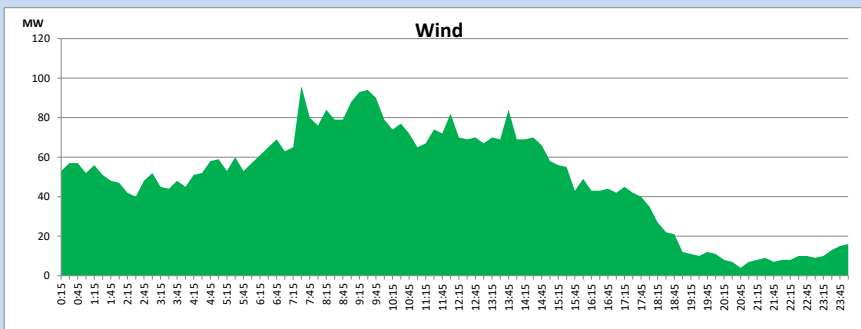
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Wind Generation during

December 17, 2024

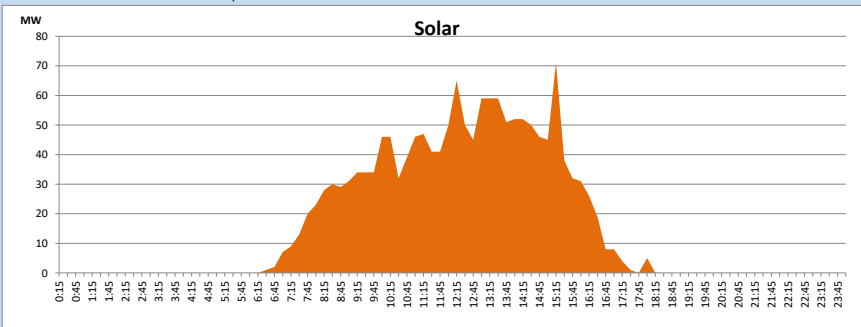
Based on Telemetered Power Stations only



Solar Generation during

December 17, 2024

Based on Telemetered Power Stations only

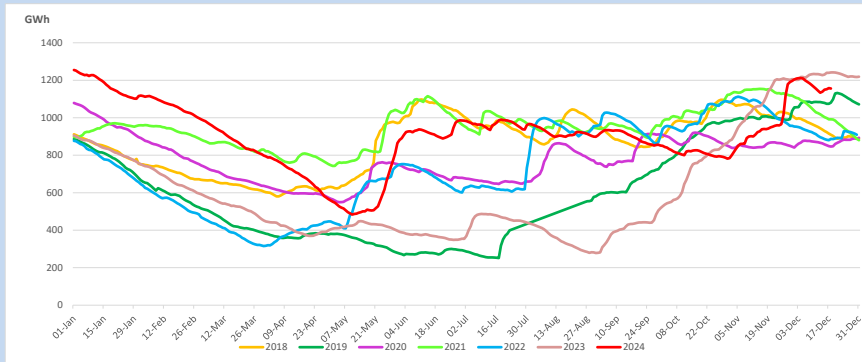


1.14 Major Incidents reported during the day

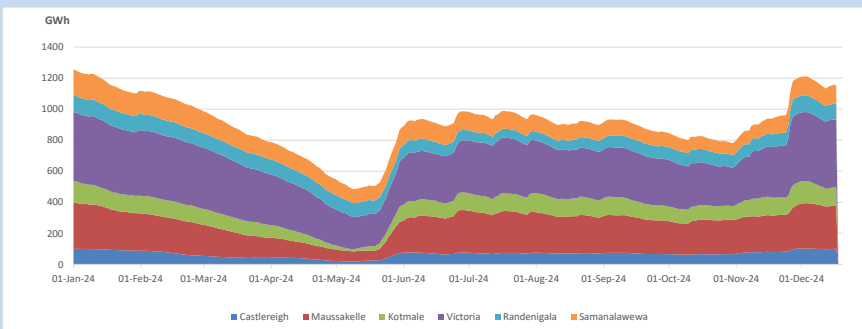
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- 1) Mahiyanganaya 132/33kV T/F 01 which was tripped on 16.12.2024, was normalized at 10:45hrs.
- 2) Sub-L 132/11kV T/F 04 tripped from both ends at 11:28hrs due to an oil level low alarm. The T/F was normalized at 13:57hrs.
- 3) Uma Oya Puhulpola pond spilling stopped at 07:45hrs. Uma Oya Dyraba pond spilling started at 09:18hrs and spilling stopped at 16:20hrs.
- 4) Wagawatta GSS 132/33kV T/F 01 & 02 switched on for the first time at 11:02hrs & 11:06hrs respectively. 33kV GIS and all the 33kV feeders were switched on forsoaking for the first time from 16:47hrs.

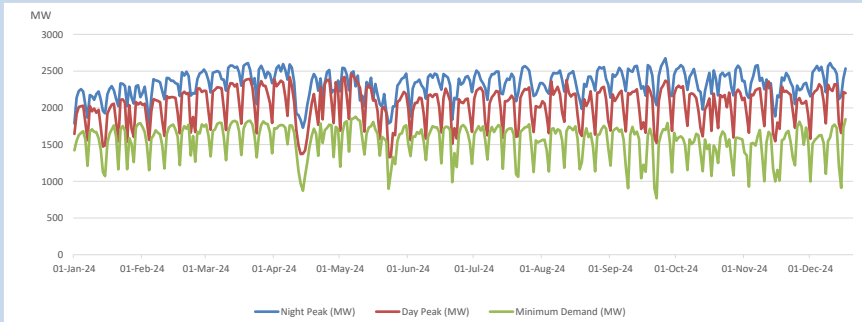
2. Comparison of Total Reservoir Storage Levels with Past Years



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

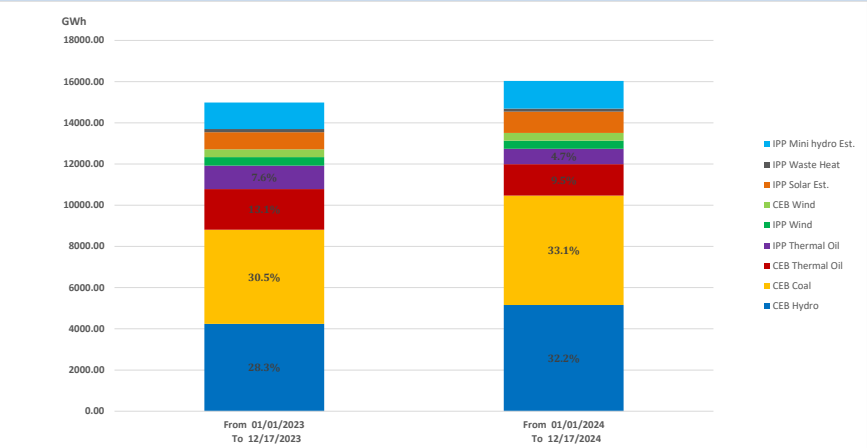


4. Variation of Demand during the current year



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 12/17/2023 14,981 GWh
From 01/01/2024 To 12/17/2024 16,030 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