

Generation and Reservoirs Statistics

December 18, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 18, 2024

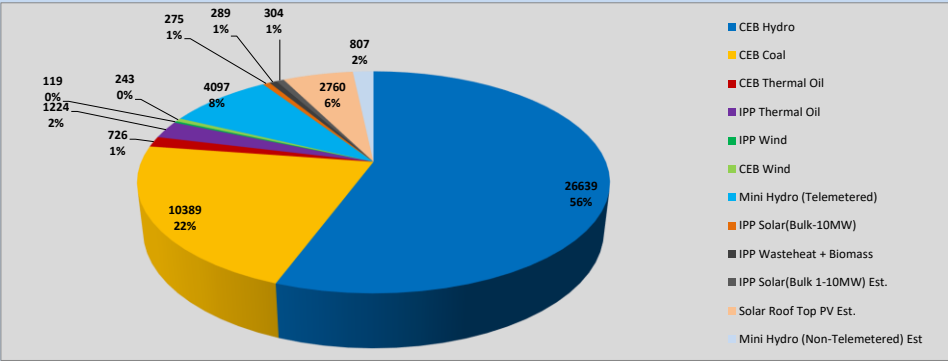


Table 01

	Generation (MWh)
CEB Hydro	26,639
CEB Coal	10,389
CEB Thermal Oil	275
IPP Thermal Oil	289
IPP Wind	807
CEB Wind	304
Mini Hydro (Telemetered)	409
IPP Solar (Bulk)	275
IPP Waste heat + Biomass	289
Total Generation (Excluding estimated figures)	44,001
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	807
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	47,872

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	443	54.02%
CEB Coal	173	21.15%
CEB Thermal Oil	10	1.20%
IPP Thermal	16	1.92%
IPP Wind	11	1.40%
CEB Wind	12	1.48%
Mini Hydro *	87	10.60%
IPP Solar *	61	7.40%
IPP Waste heat + BMP	7	0.85%
Total	820	

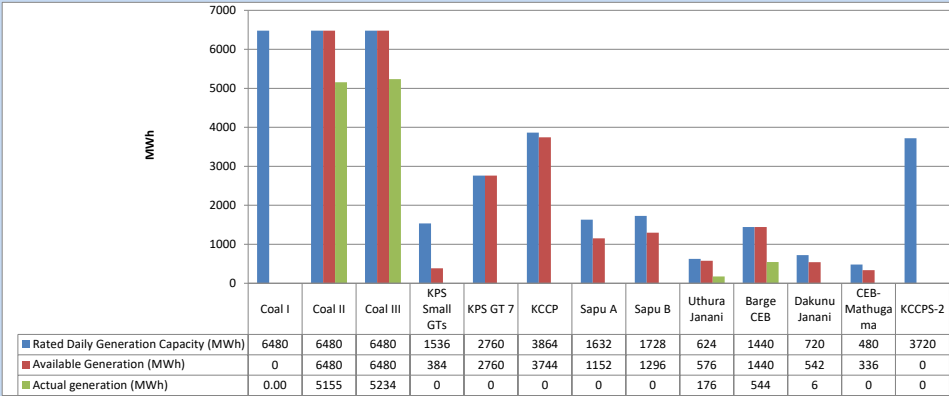
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,181	32.23%
CEB Coal	5,324	33.11%
CEB Thermal Oil	1,522	9.47%
IPP Thermal	751	4.67%
IPP Wind	395	2.46%
CEB Wind	378	2.35%
Mini Hydro *	1,342	8.34%
IPP Solar *	1,033	6.42%
IPP Waste heat	153	0.95%
Total	16,078	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

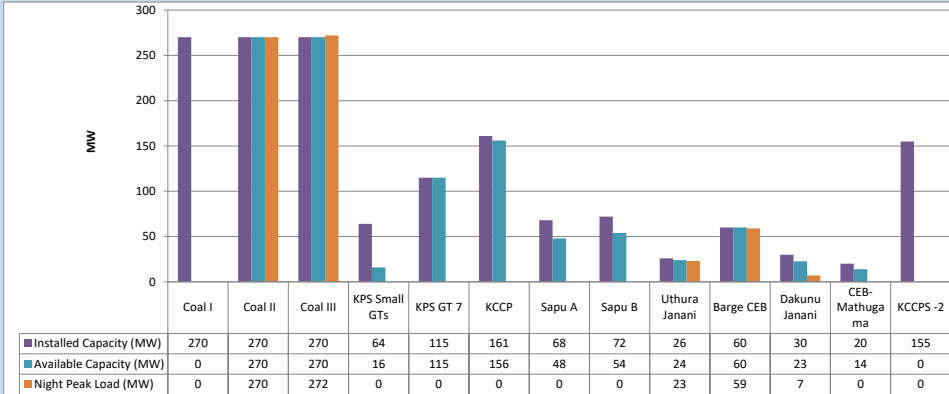
December 18, 2024



Available Generation is estimated based on plant availability at 6.00am on December 19, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

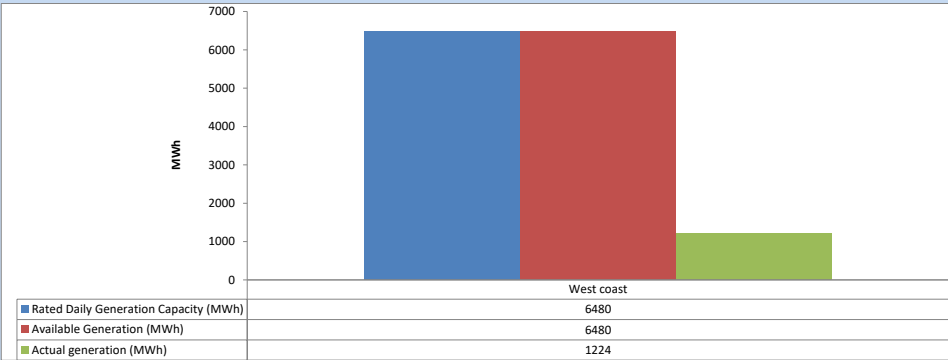
December 18, 2024



Plant availability is recorded at 6.00 am on December 19, 2024

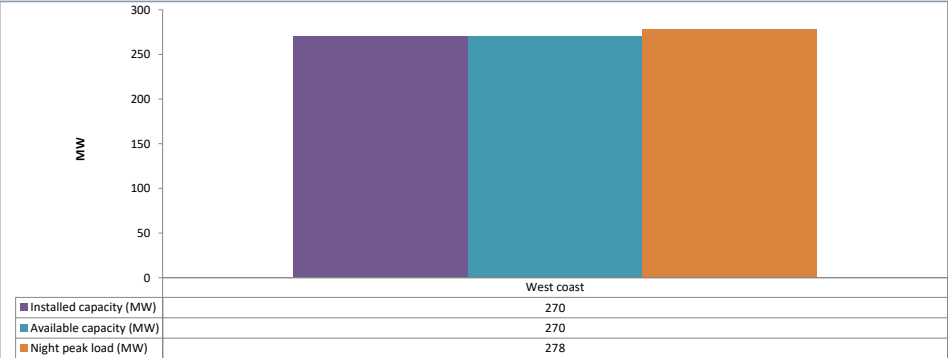
1.4 IPP owned Thermal Plant Dispatch

December 18, 2024



Available Generation is estimated based on plant availability at 6.00am on December 19, 2024

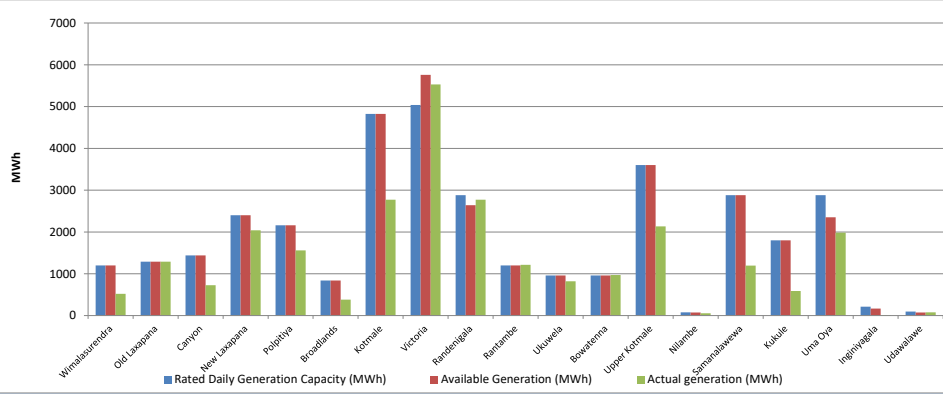
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on December 19, 2024

1.6 Major Hydro Plant Dispatch

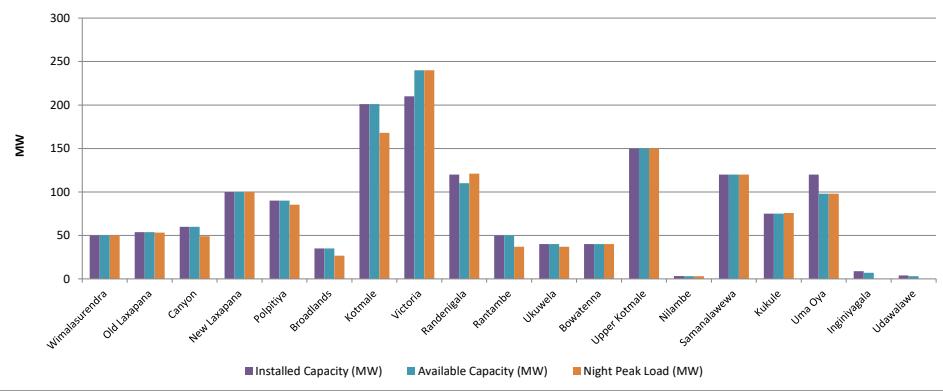
December 18, 2024



Available Generation is estimated based on plant availability at 6.00am on December 19, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 18, 2024



Plant availability is recorded at 6.00 am on December 19, 2024

1.8 Summary of Major Plant performance

December 18, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	520
Old Laxapana	54	54	53	1,291
Canyon	60	60	49	728
New Laxapana	100	100	100	2,040
Polpitiya	90	90	85	1,560
Broadlands	35	35	27	380
Kotmale	201	201	168	2,770
Victoria	210	240	240	5,531
Randenigala	120	110	121	2,772
Rantambe	50	50	37	1,216
Ukuwela	40	40	37	821
Bowatenna	40	40	40	969
Upper Kotmale	150	150	150	2,133
Nilambe	3	3	3	54
Samanalawewa	120	120	120	1,194
Kukule	75	75	76	588
Uma Oya	120	98	98	1,982
Inginipigala	9	7	0	14
Udawalawe	4	3	0	78
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	5,155
Puttalam Coal III	270	270	272	5,234
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	176
Barge CEB	60	60	59	544
CEB-Hambantota	30	23	7	6
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	278	1,224
Sobadhanavi	220	212	0	0
Total	3,602	2,846	2,541	44,003

Note- Plant availability is the availability recorded at 6 am on December 19, 2024

1.9 Contribution to the Night Peak in MW

December 18, 2024

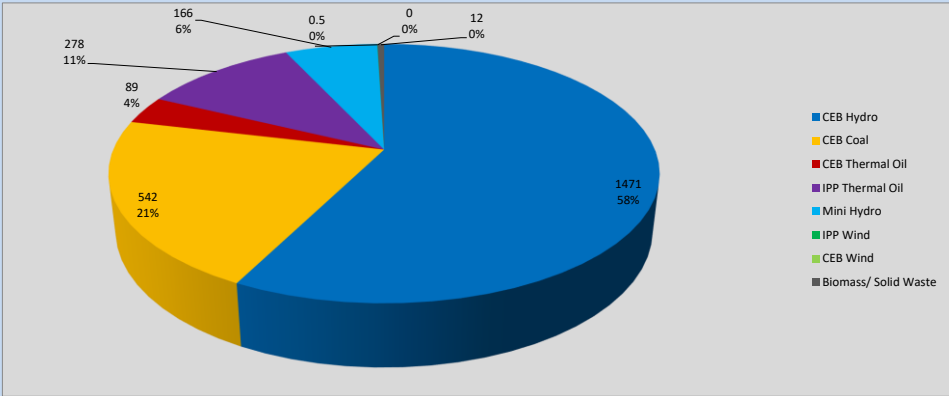


Table 05

CEB Hydro	1,471	MW
CEB Coal	542	MW
CEB Thermal Oil	89	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	166	MW
IPP Wind	0.5	MW
CEB Wind	0	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

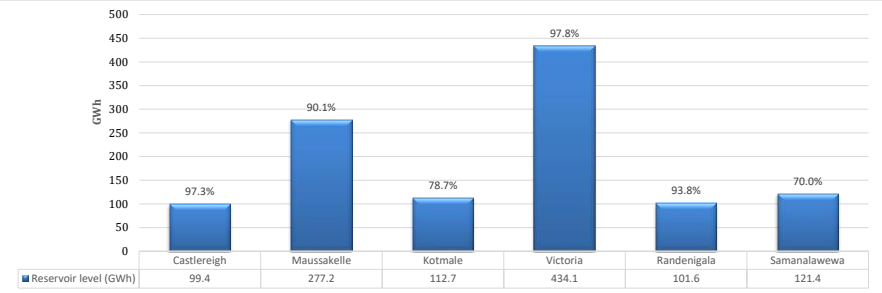
Table 06

Night Peak*	2,558	MW
Day Peak Maximum Demand	2,215	MW
Day Peak Minimum Demand	1,687	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 19, 2024



Total Reservoir Level
% of Total capacity

1,146 GWh
89.7%

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

December 18, 2024

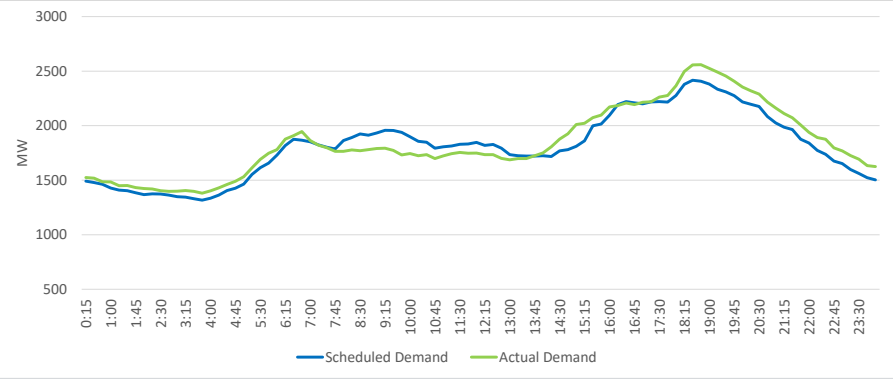
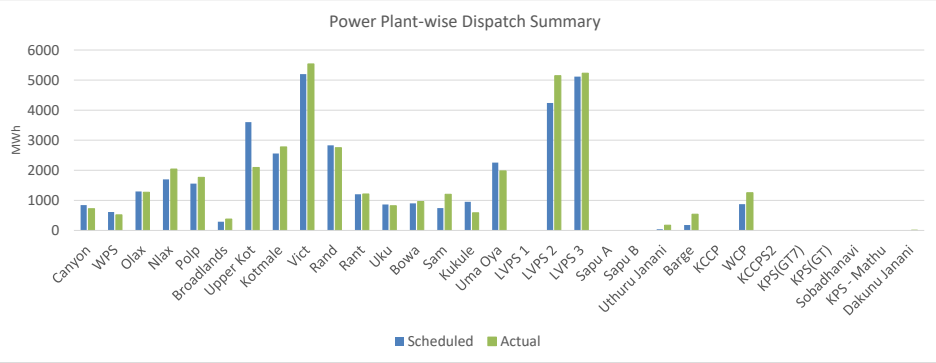


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	27,399	26,639	(760)
CEB Coal	9,351	10,389	1,038
CEB Thermal Oil	220	726	506
IPP Thermal Oil	873	1,224	351
NCRE (excluding non telemetered power plants)	5,635	5,023	(612)
Total	43,479	44,001	522

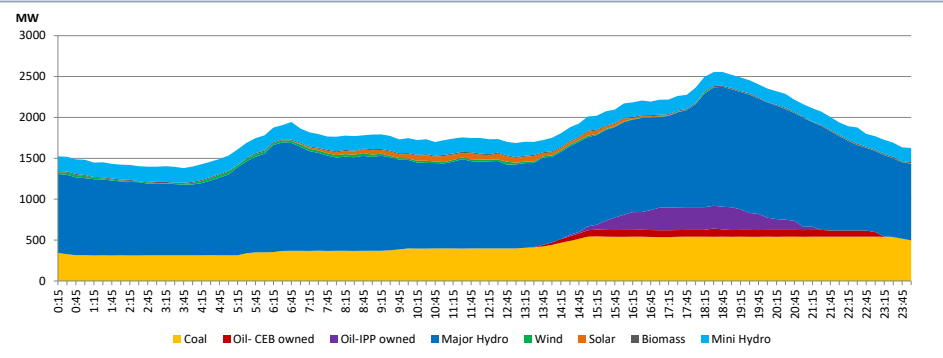
1.12 Power Plant-wise Dispatch Summary

December 18, 2024



1.13 Daily Load Curve

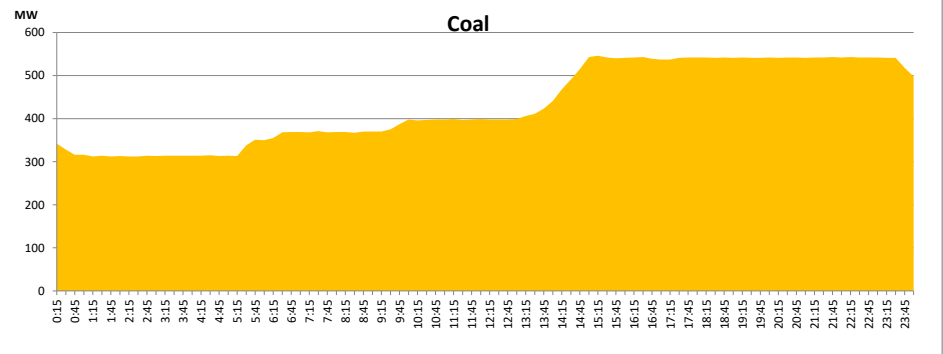
December 18, 2024



Solar and wind data is based on Telemetered Power Stations only

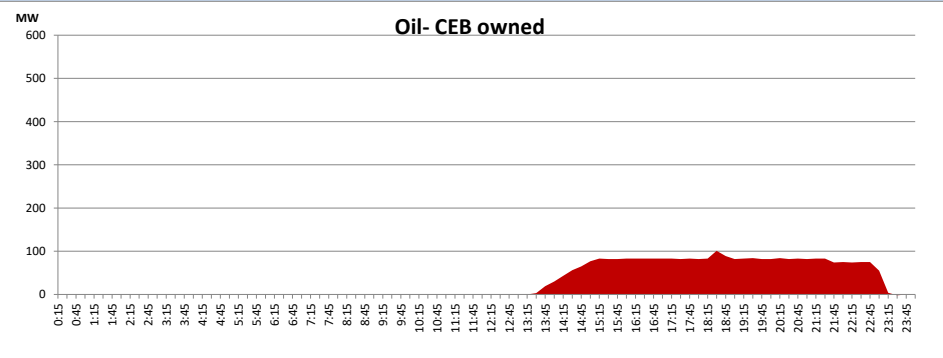
Coal Generation during

December 18, 2024

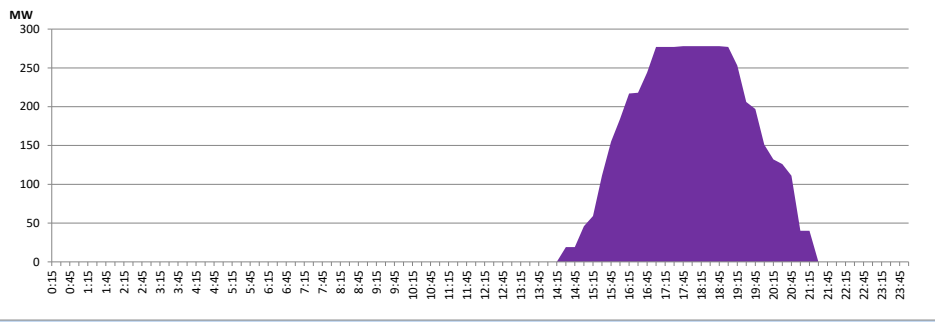


CEB Oil Plant Generation during

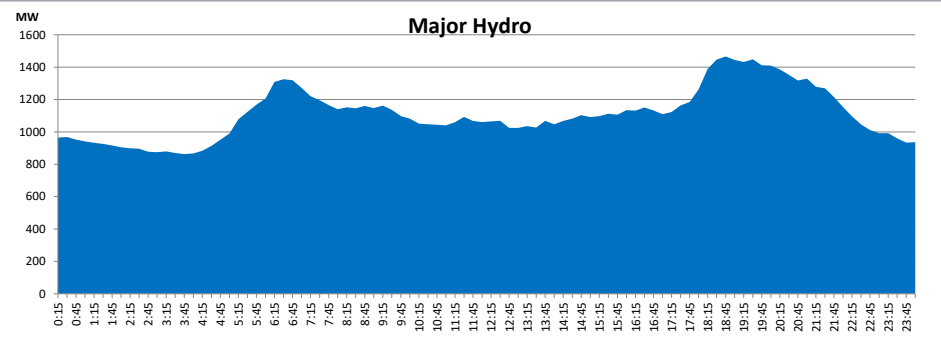
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IPP Oil Plant Generation during December 18, 2024

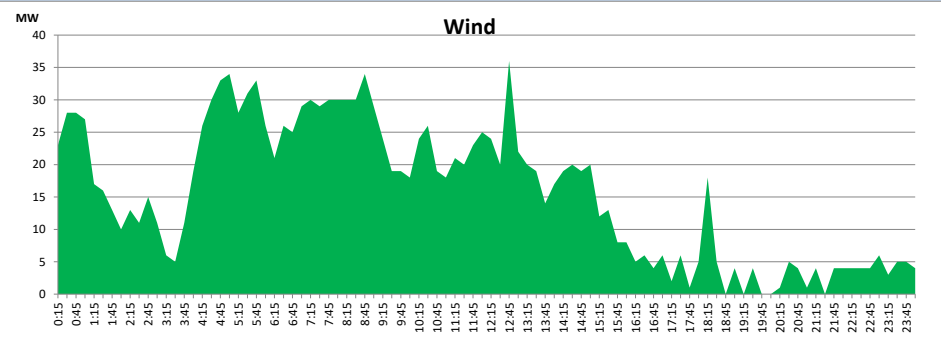


Major Hydro Generation during December 18, 2024



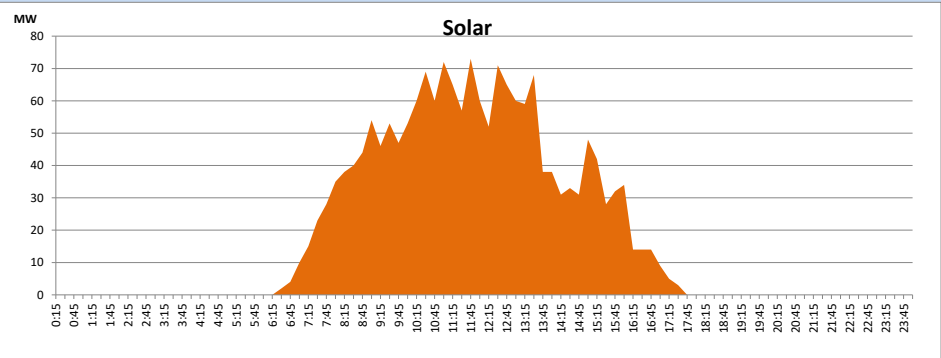
Wind Generation during December 18, 2024

Based on Telemetered Power Stations only



Solar Generation during December 18, 2024

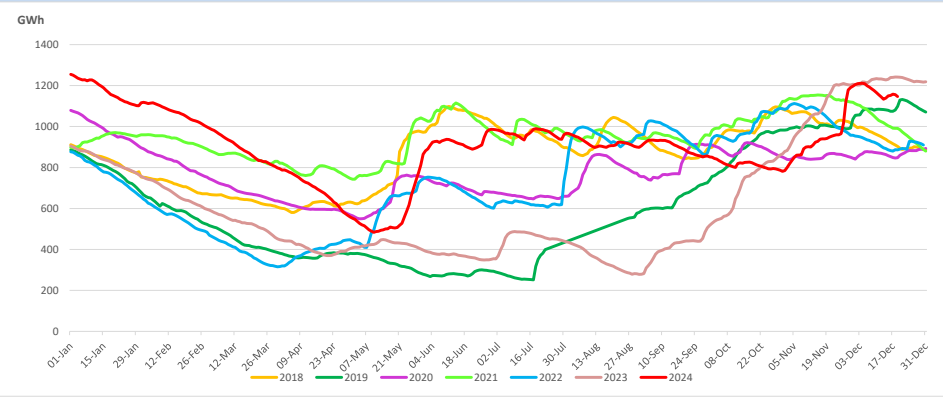
Based on Telemetered Power Stations only



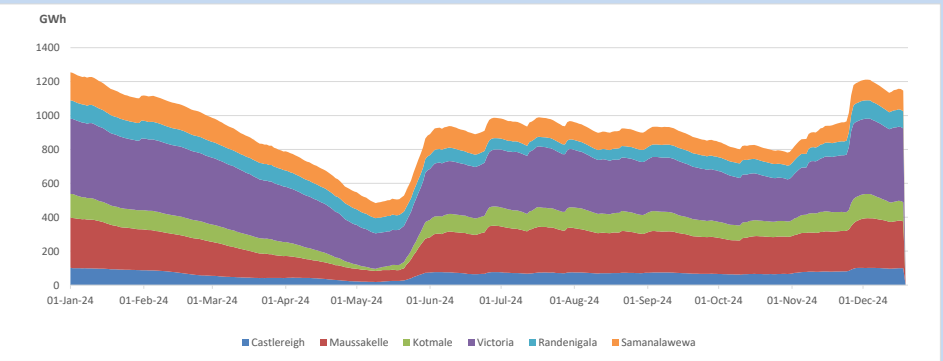
1.14 Major Incidents reported during the day December 18, 2024

1) Biyagama 220/132/33kV T/F 02 tripped only from the 132kV end at 13:57hrs with the operation of SEF protection. The T/F was normalized at 15:34hrs.

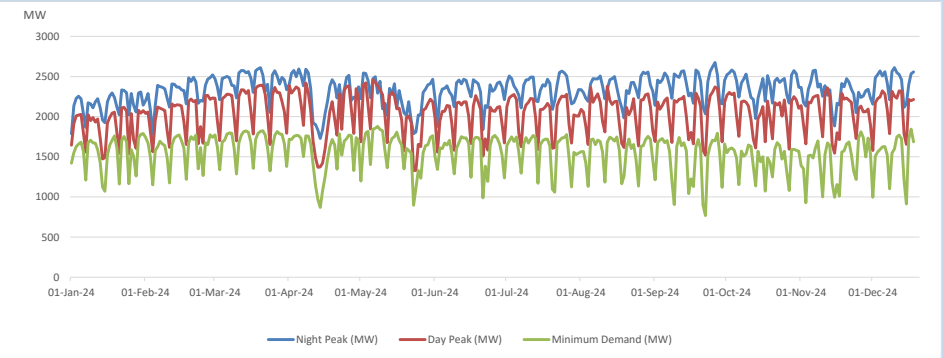
2. Comparison of Total Reservoir Storage Levels with Past Years



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

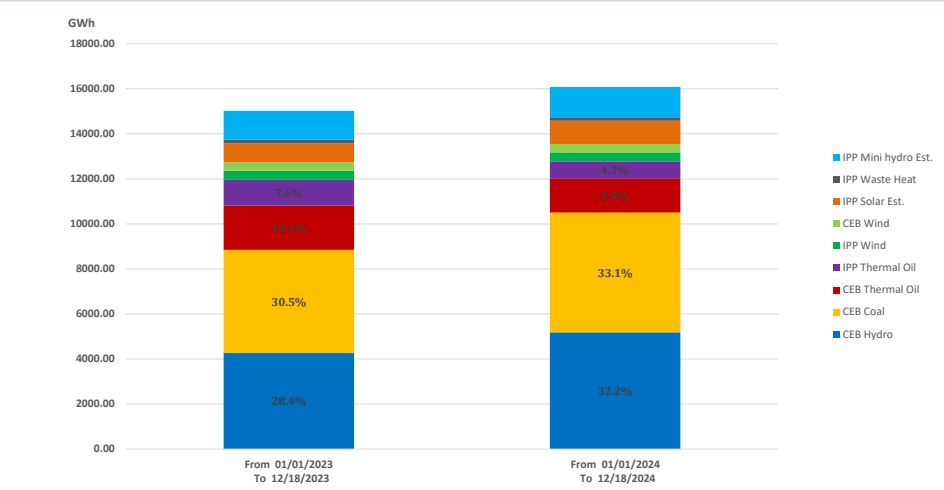


4. Variation of Demand during the current year



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 12/18/2023 15,021 GWh
From 01/01/2024 To 12/18/2024 16,078 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 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