

Generation and Reservoirs Statistics

December 25, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 25, 2024

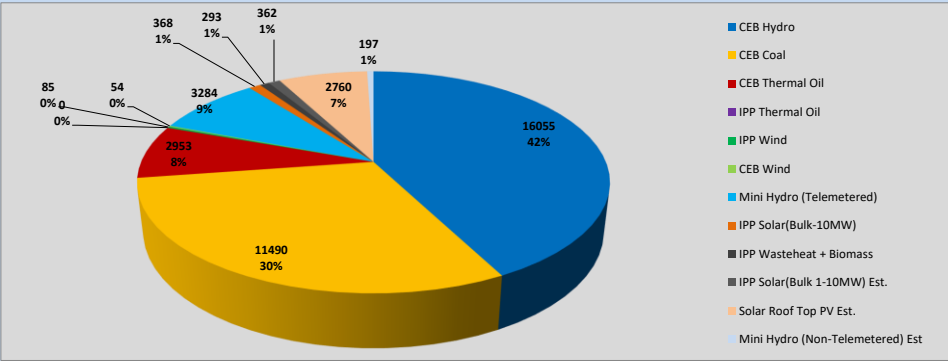


Table 01

	Generation (MWh)
CEB Hydro	16,055
CEB Coal	11,490
CEB Thermal Oil	2,953
IPP Thermal Oil	-
IPP Wind	85
CEB Wind	54
Mini Hydro (Telemetered)	3,284
IPP Solar (Bulk)	368
IPP Waste heat + Biomass	293
Total Generation (Excluding estimated figures)	34,582
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	197
* Estimated IPP Solar PV (Bulk 1-10MW)	362
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	37,901
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	594	52.39%
CEB Coal	257	22.68%
CEB Thermal Oil	24	2.11%
IPP Thermal	23	2.00%
IPP Wind	13	1.10%
CEB Wind	13	1.18%
Mini Hydro *	117	10.29%
IPP Solar *	84	7.45%
IPP Waste heat + BMP	9	0.80%
Total	1,133	

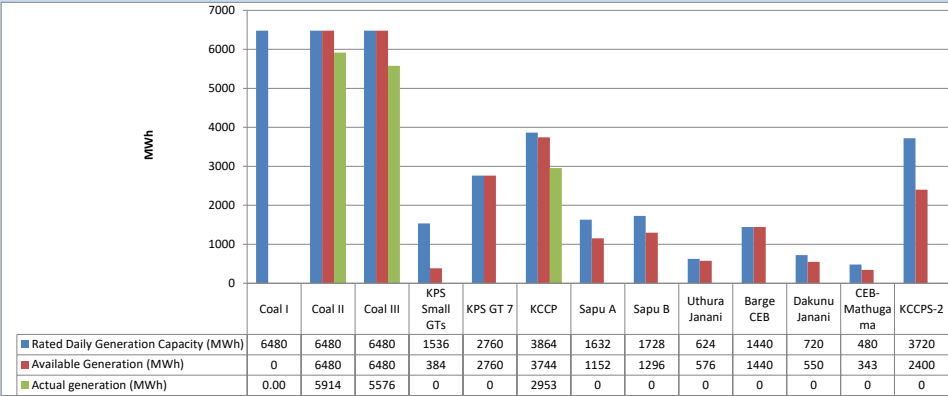
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,332	32.53%
CEB Coal	5,408	32.99%
CEB Thermal Oil	1,536	9.37%
IPP Thermal	758	4.62%
IPP Wind	396	2.42%
CEB Wind	379	2.31%
Mini Hydro *	1,371	8.37%
IPP Solar *	1,056	6.45%
IPP Waste heat	155	0.94%
Total	16,391	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

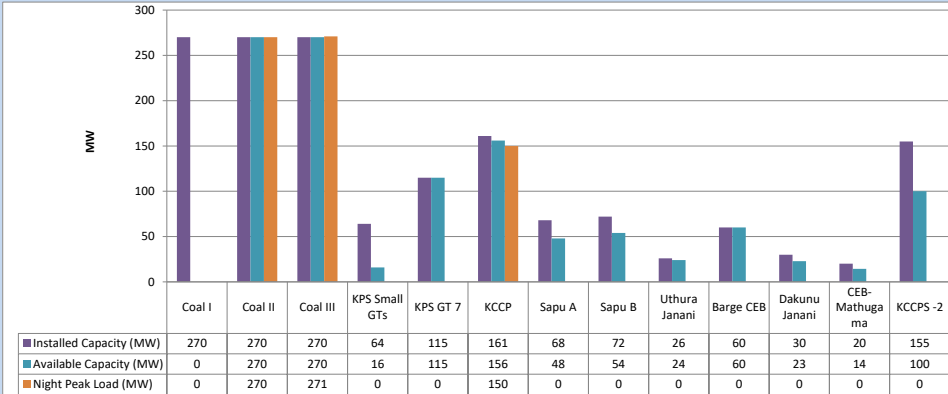
December 25, 2024



Available Generation is estimated based on plant availability at 6.00am on December 26, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

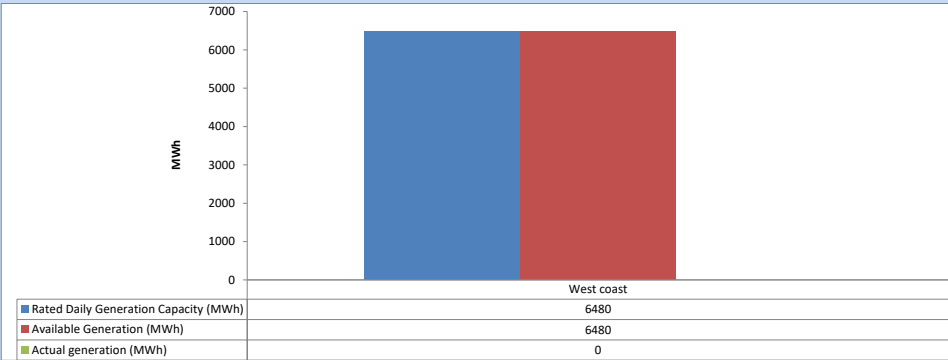
December 25, 2024



Plant availability is recorded at 6.00 am on December 26, 2024

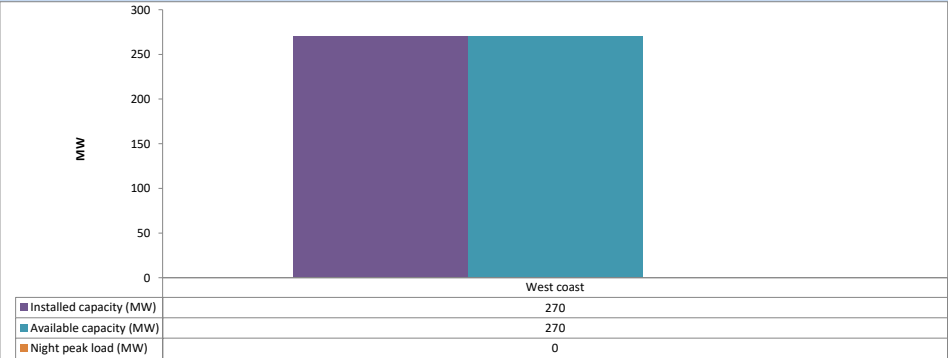
1.4 IPP owned Thermal Plant Dispatch

December 25, 2024



Available Generation is estimated based on plant availability at 6.00am on December 26, 2024

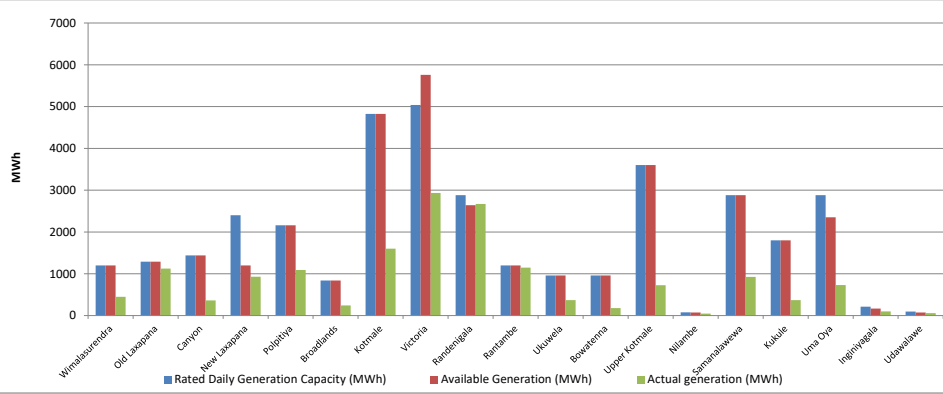
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on December 26, 2024

1.6 Major Hydro Plant Dispatch

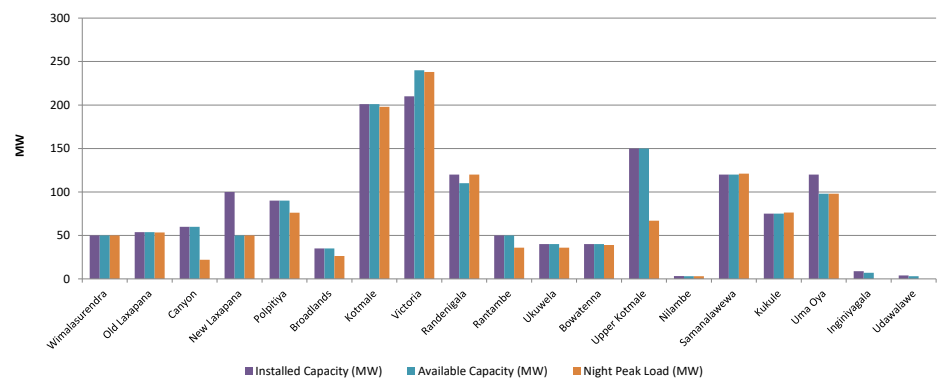
December 25, 2024



Available Generation is estimated based on plant availability at 6.00am on December 26, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 25, 2024



Plant availability is recorded at 6.00 am on December 26, 2024

1.8 Summary of Major Plant performance

December 25, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	449
Old Laxapana	54	54	53	1,124
Canyon	60	60	22	363
New Laxapana	100	50	50	930
Polpitiya	90	90	76	1,090
Broadlands	35	35	26	242
Kotmale	201	201	198	1,600
Victoria	210	240	238	2,934
Randenigala	120	110	120	2,671
Rantambe	50	50	36	1,147
Ukuwela	40	40	36	369
Bowatenna	40	40	39	179
Upper Kotmale	150	150	67	726
Nilambe	3	3	3	48
Samanalawewa	120	120	121	925
Kukule	75	75	76	369
Uma Oya	120	98	98	732
Inginipagala	9	7	0	99
Udawalawe	4	3	0	58
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	5,914
Puttalam Coal III	270	270	271	5,576
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	150	2,953
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	0	0
Barge CEB	60	60	0	0
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	100	0	0
West Coast	270	270	0	0
Sobadhanavi	220	212	0	0
Total	3,602	2,896	2,145	34,582

Note- Plant availability is the availability recorded at 6 am on December 26, 2024

1.9 Contribution to the Night Peak in MW

December 25, 2024

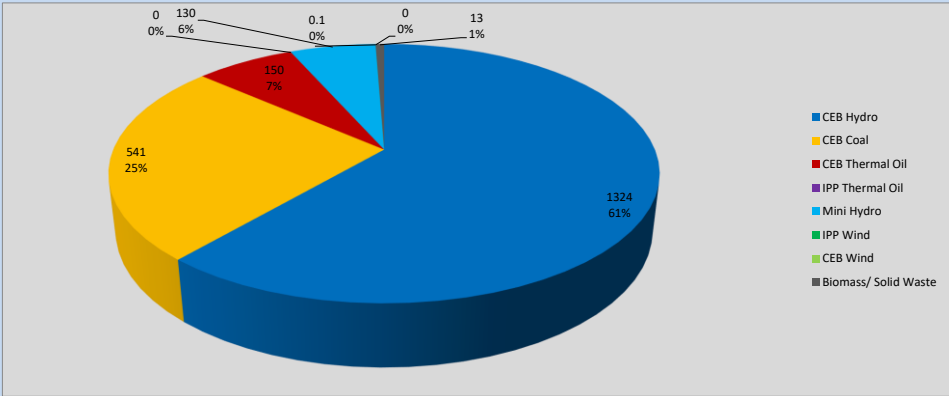


Table 05

CEB Hydro	1,324	MW
CEB Coal	541	MW
CEB Thermal Oil	150	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	130	MW
IPP Wind	0.1	MW
CEB Wind	0	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

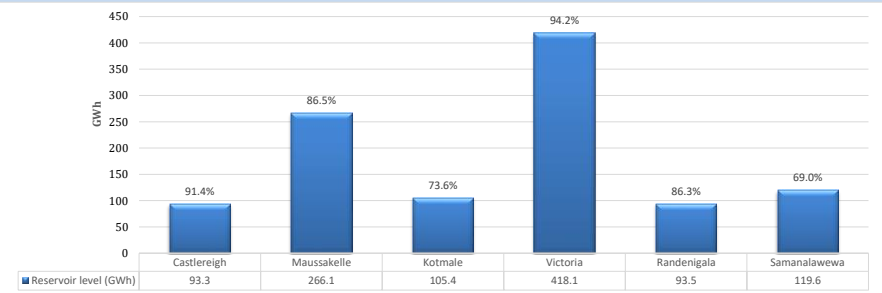
Table 06

Night Peak*	2,158	MW
Day Peak Maximum Demand	1,657	MW
Day Peak Minimum Demand	960	MW
Off Peak Minimum Demand	1,317	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 26, 2024



Total Reservoir Level 1,096 GWh
% of Total capacity 85.7%

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

December 25, 2024

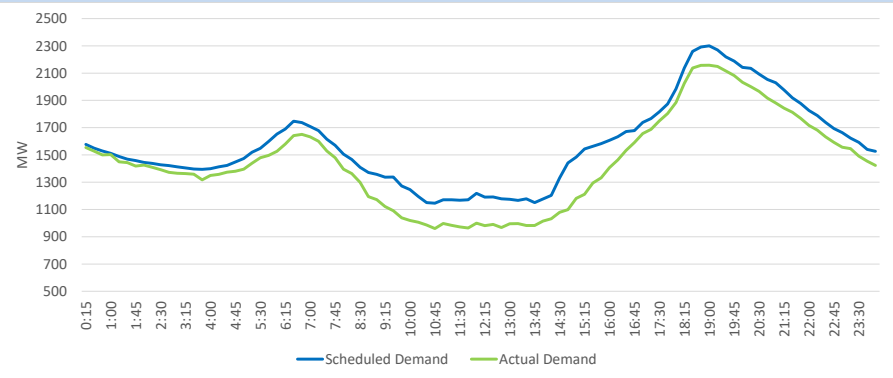
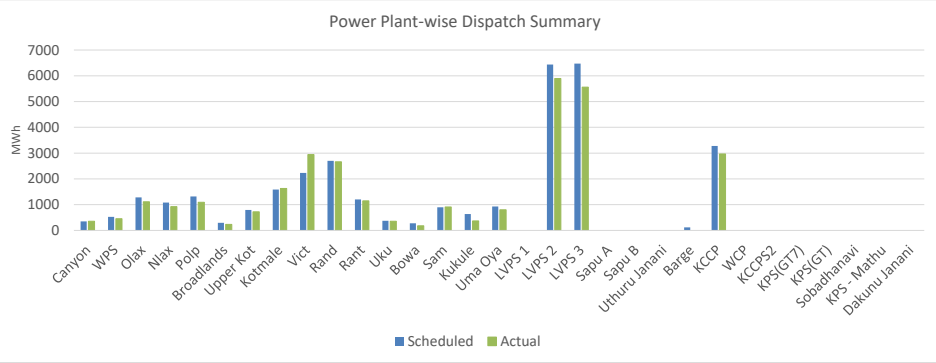


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,496	16,055	(441)
CEB Coal	12,905	11,490	(1,415)
CEB Thermal Oil	3,399	2,953	(446)
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	4,963	4,084	(879)
Total	37,764	34,582	(3,182)

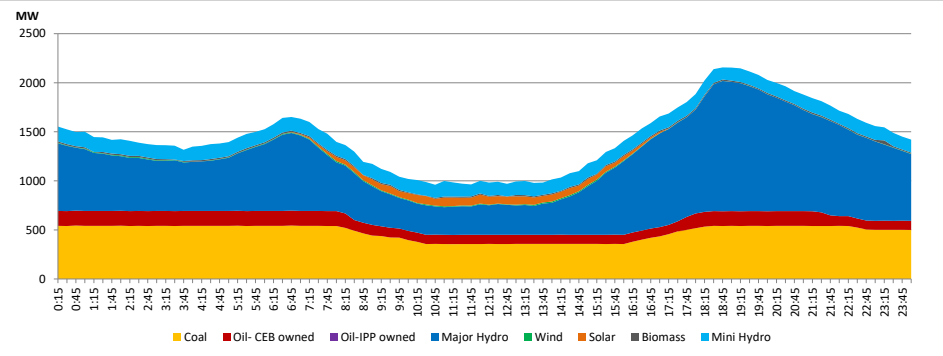
1.12 Power Plant-wise Dispatch Summary

December 25, 2024



1.13 Daily Load Curve

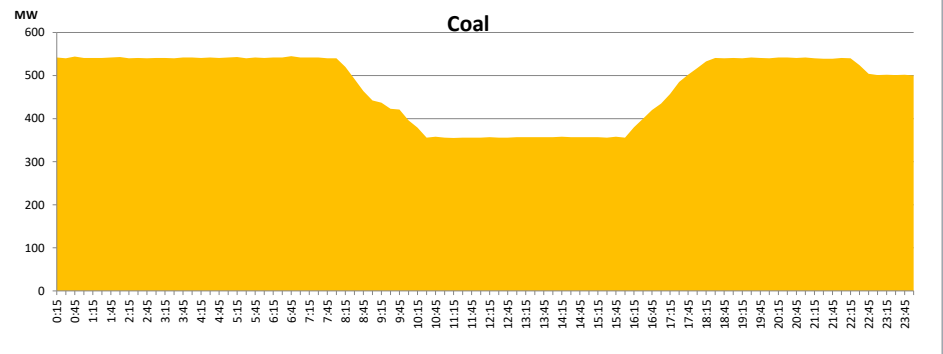
December 25, 2024



Solar and wind data is based on Telemetered Power Stations only

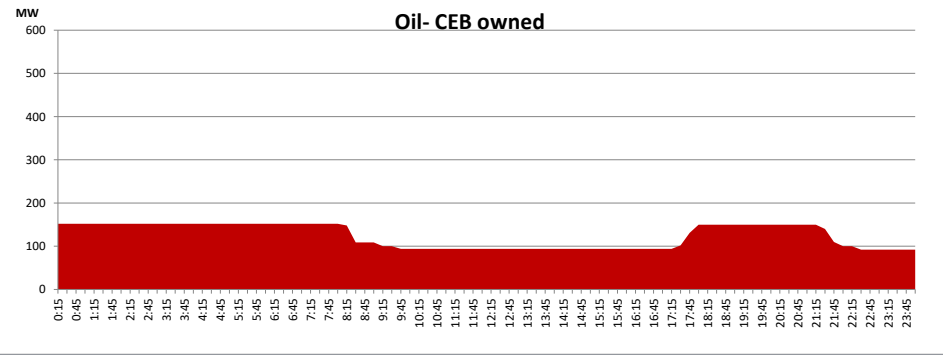
Coal Generation during

December 25, 2024

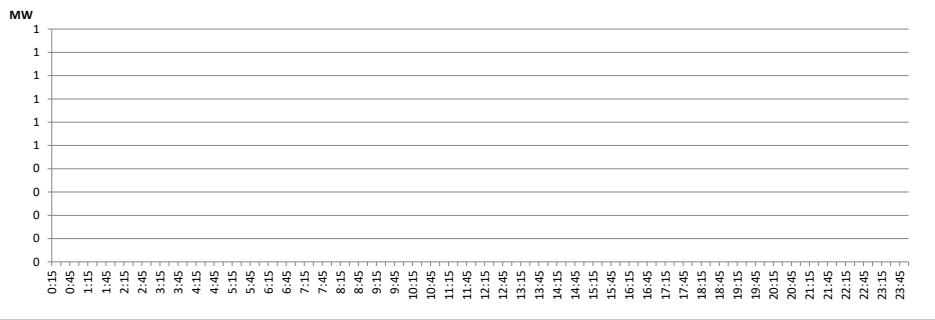


CEB Oil Plant Generation during

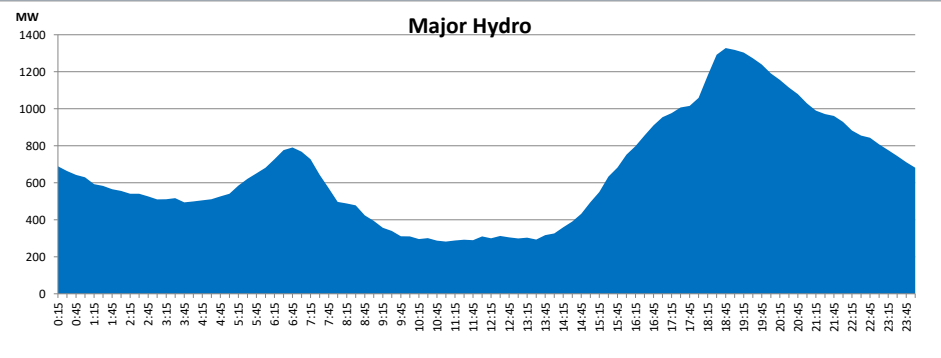
December 25, 2024



IPP Oil Plant Generation during December 25, 2024

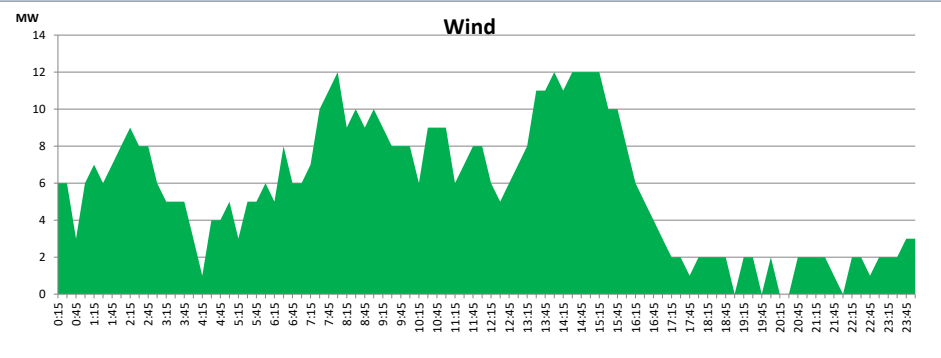


Major Hydro Generation during December 25, 2024



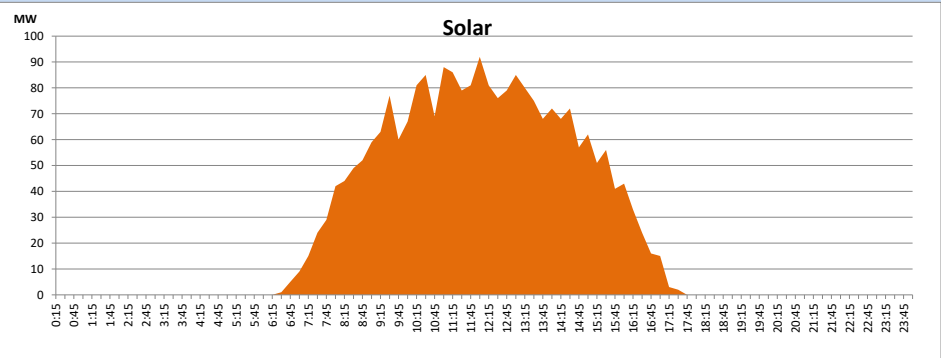
Wind Generation during December 25, 2024

Based on Telemetered Power Stations only



Solar Generation during December 25, 2024

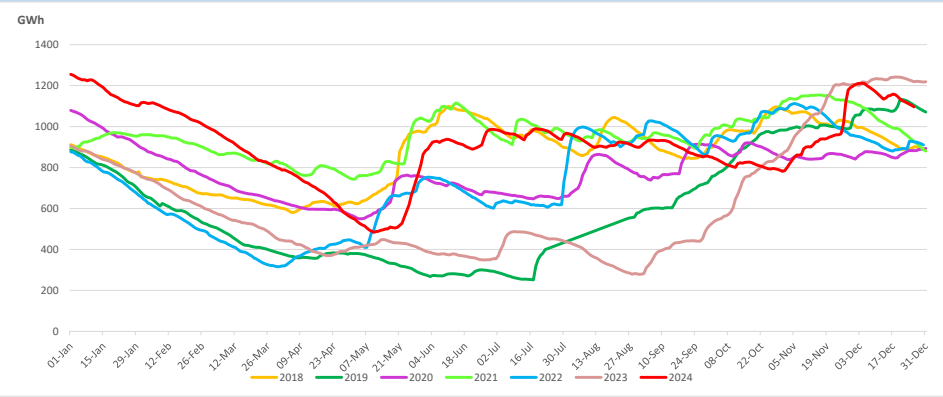
Based on Telemetered Power Stations only



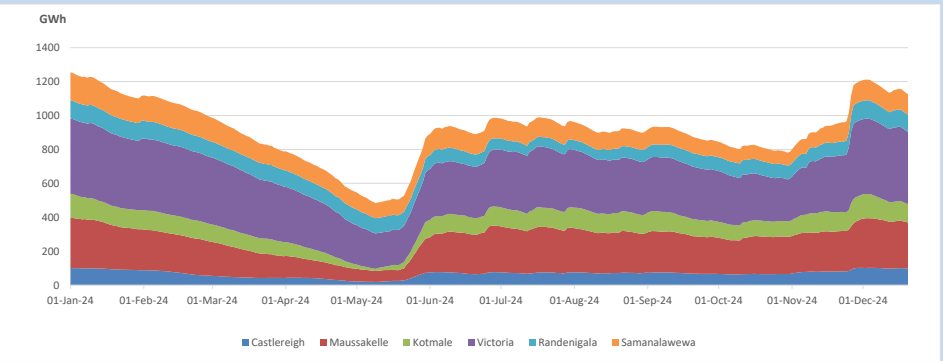
1.14 Major Incidents reported during the day December 25, 2024

- 1) Badulla - Rantabe 132kV cct 01 tripped from Rantabe end at 11:27hrs due to the operation of E/F protection (The cct was switched off at Badulla end manually for a system requirement). The cct was normalized at 13:28hrs.
- 2) Puttalam 132/33kV T/F 02 tripped from both ends at 04:27hrs (26.12.2024) along with 33kV B/S CB, causing 33kV B/S 02 and associated feeders to be dead. Puttalam 132/33kV T/F 02 was normalized at 05:13hrs (26.12.2024), and all affected feeders were normalized by 05:21hrs (26.12.2024). Puttalam 33kV B/S CB is yet to be normalized.

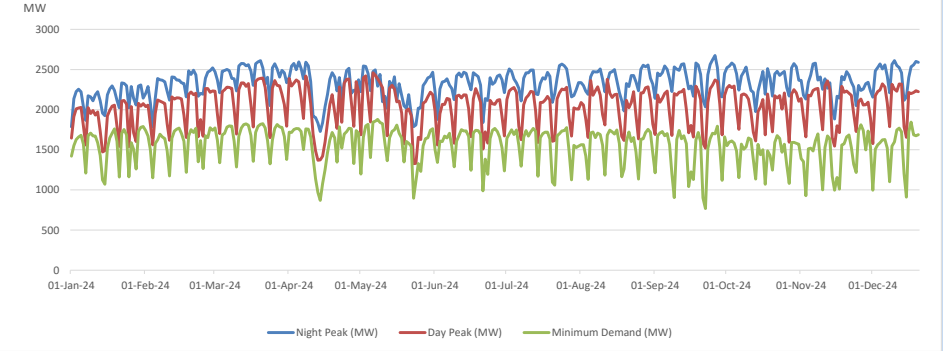
2. Comparison of Total Reservoir Storage Levels with Past Years



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

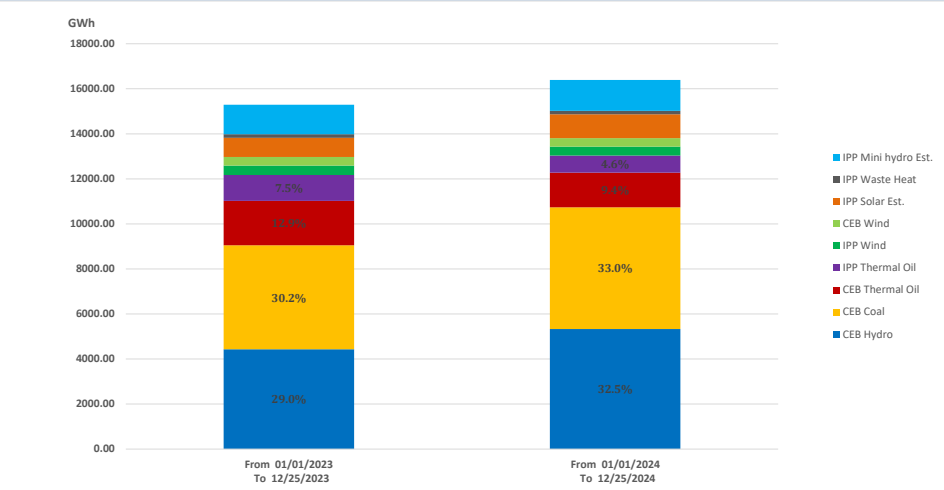


4. Variation of Demand during the current year



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 12/25/2023 15,295 GWh
From 01/01/2024 To 12/25/2024 16,391 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