

Generation and Reservoirs Statistics

December 5, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 5, 2024

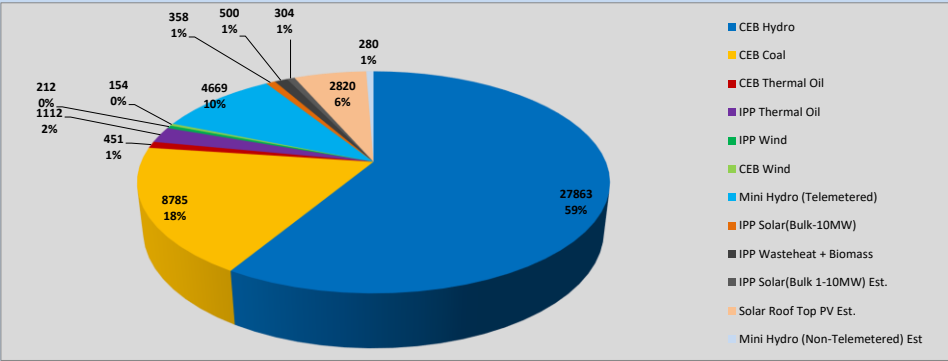


Table 01

	Generation (MWh)
CEB Hydro	27,863
CEB Coal	8,785
CEB Thermal Oil	451
IPP Thermal Oil	1,112
IPP Wind	212
CEB Wind	154
Mini Hydro (Telemetered)	4,669
IPP Solar (Bulk)	358
IPP Waste heat + Biomass	500
Total Generation (Excluding estimated figures)	44,104
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	280
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	47,508
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	121	54.17%
CEB Coal	43	19.21%
CEB Thermal Oil	2	1.03%
IPP Thermal	4	1.58%
IPP Wind	4	1.85%
CEB Wind	3	1.36%
Mini Hydro *	27	12.10%
IPP Solar *	17	7.61%
IPP Waste heat + BMP	2	1.08%
Total	224	

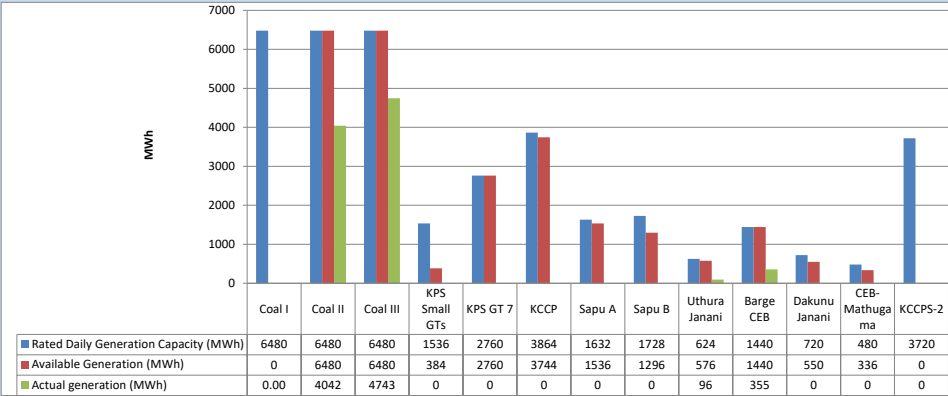
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,859	31.39%
CEB Coal	5,193	33.55%
CEB Thermal Oil	1,514	9.78%
IPP Thermal	739	4.77%
IPP Wind	388	2.50%
CEB Wind	369	2.38%
Mini Hydro *	1,282	8.28%
IPP Solar *	989	6.39%
IPP Waste heat	148	0.96%
Total	15,482	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

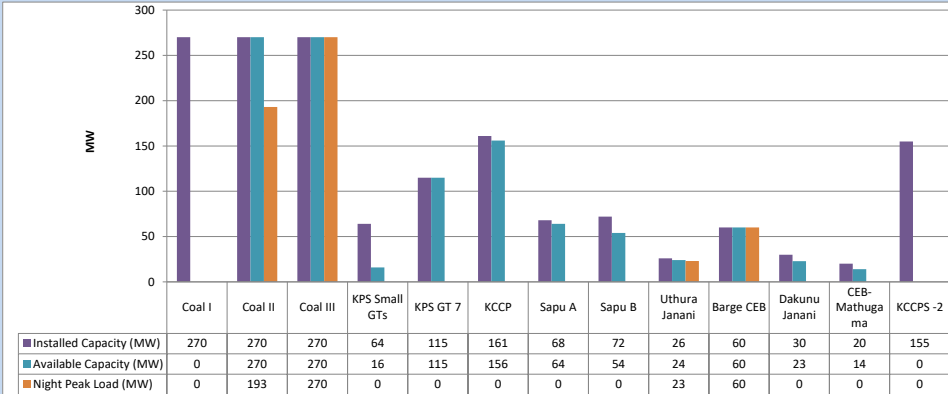
December 5, 2024



Available Generation is estimated based on plant availability at 6.00am on December 6, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

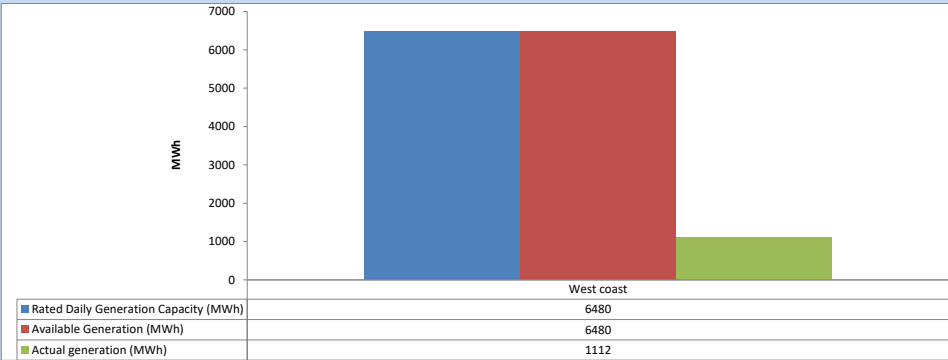
December 5, 2024



Plant availability is recorded at 6.00 am on December 6, 2024

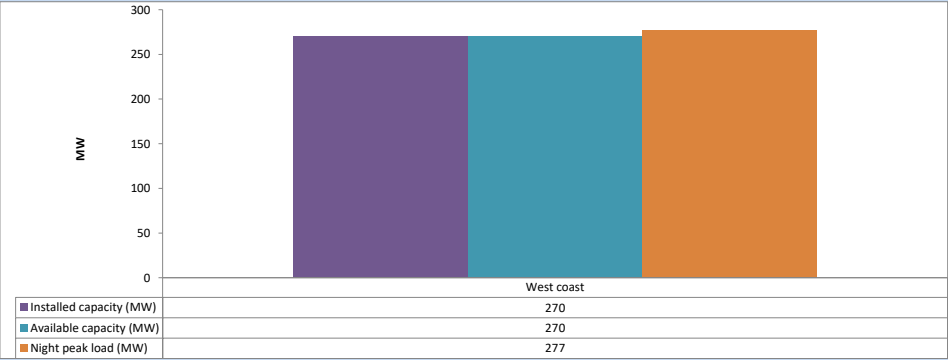
1.4 IPP owned Thermal Plant Dispatch

December 5, 2024



Available Generation is estimated based on plant availability at 6.00am on December 6, 2024

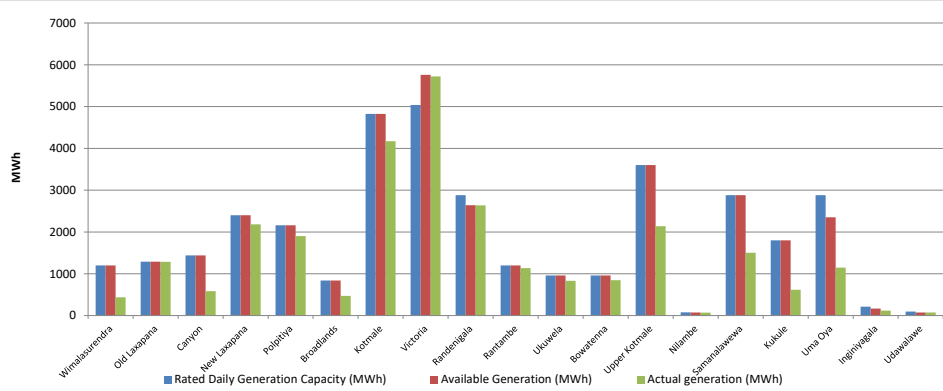
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on December 6, 2024

1.6 Major Hydro Plant Dispatch

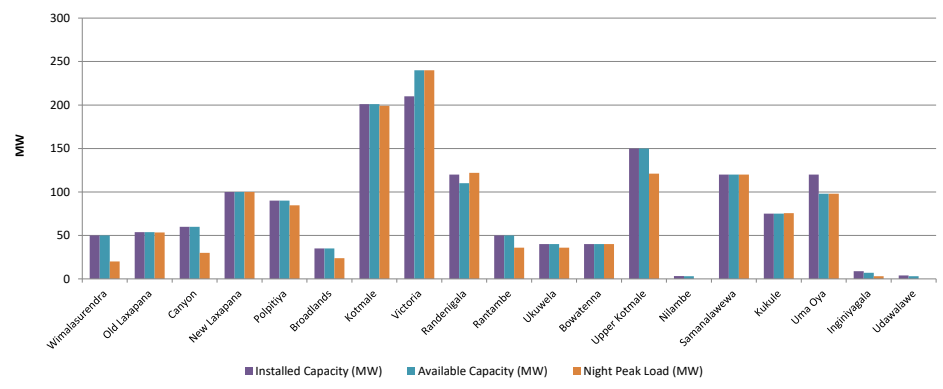
December 5, 2024



Available Generation is estimated based on plant availability at 6.00am on December 6, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 5, 2024



Plant availability is recorded at 6.00 am on December 6, 2024

1.8 Summary of Major Plant performance

December 5, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	436
Old Laxapana	54	54	54	1,285
Canyon	60	60	30	583
New Laxapana	100	100	100	2,184
Polpitiya	90	90	85	1,900
Broadlands	35	35	24	471
Kotmale	201	201	199	4,170
Victoria	210	240	240	5,721
Randenigala	120	110	122	2,635
Rantambe	50	50	36	1,134
Ukuwela	40	40	36	833
Bowatenna	40	40	40	845
Upper Kotmale	150	150	121	2,138
Nilambe	3	3	0	70
Samanalawewa	120	120	120	1,505
Kukule	75	75	76	617
Uma Oya	120	98	98	1,145
Inginipagala	9	7	3	117
Udawalawe	4	3	0	73
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	193	4,042
Puttalam Coal III	270	270	270	4,743
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	0	0
Uthura Janani	26	24	23	96
Barge CEB	60	60	60	355
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	277	1,112
Sobadhanavi	220	212	0	0
Total	3,602	2,862	2,490	44,103

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

1.9 Contribution to the Night Peak in MW

December 5, 2024

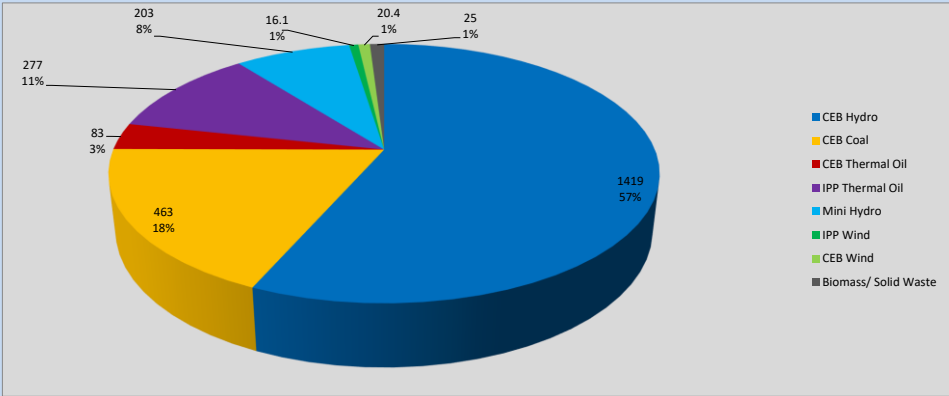


Table 05

CEB Hydro	1419	MW
CEB Coal	463	MW
CEB Thermal Oil	83	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	203	MW
IPP Wind	16.1	MW
CEB Wind	20.4	MW
Biomass/ Solid Waste	25	MW

Recorded Peak Demand Data

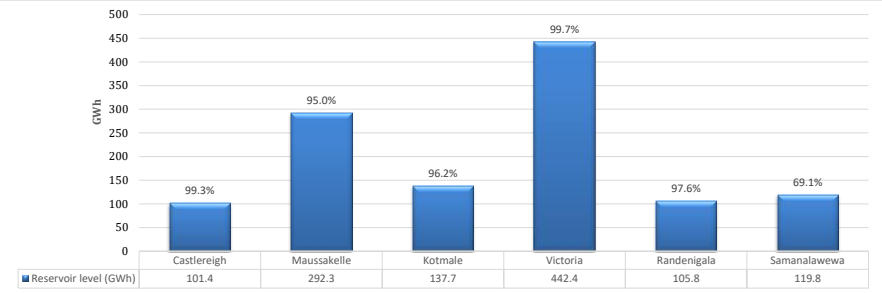
Table 06

Night Peak*	2,507	MW
Day Peak Maximum Demand	2,321	MW
Day Peak Minimum Demand	1,624	MW
Off Peak Minimum Demand	1,404	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 6, 2024



Total Reservoir Level 1199.4 GWh
% of Total capacity 93.8%

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

December 5, 2024

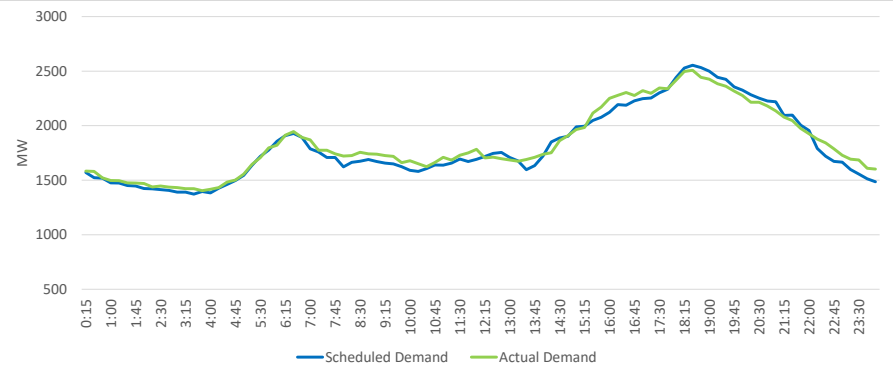
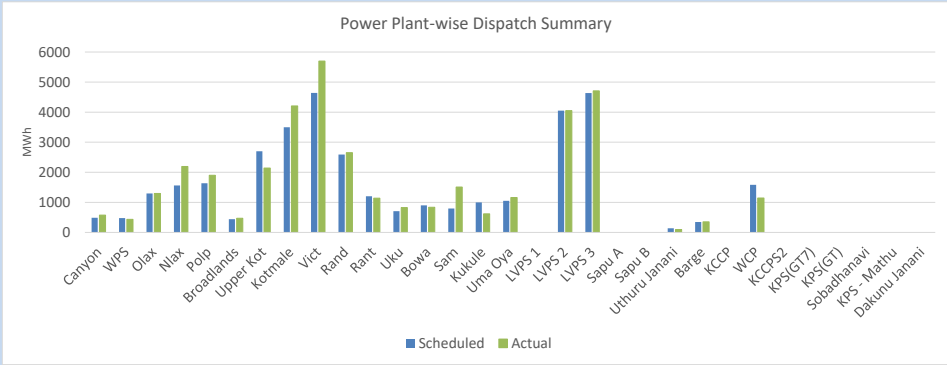


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	24,983	27,863	2,880
CEB Coal	8,687	8,785	98
CEB Thermal Oil	484	451	(33)
IPP Thermal Oil	1,581	1,112	(469)
NCRE (excluding non telemetered power plants)	7,789	5,893	(1,896)
Total	43,524	44,104	580

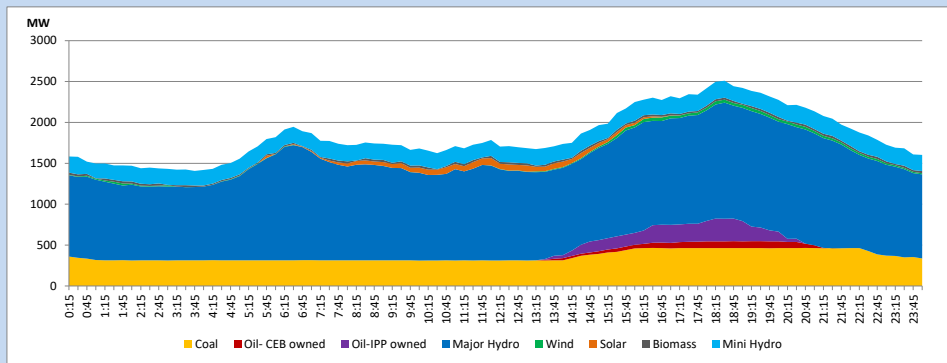
1.12 Power Plant-wise Dispatch Summary

December 5, 2024



1.13 Daily Load Curve

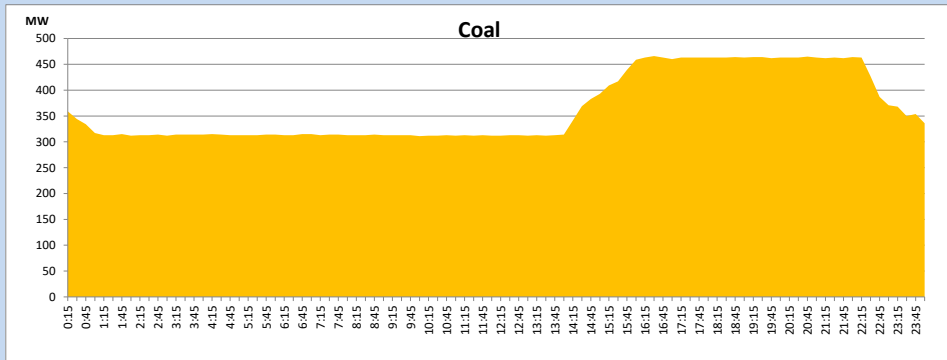
December 5, 2024



Solar and wind data is based on Telemetered Power Stations only

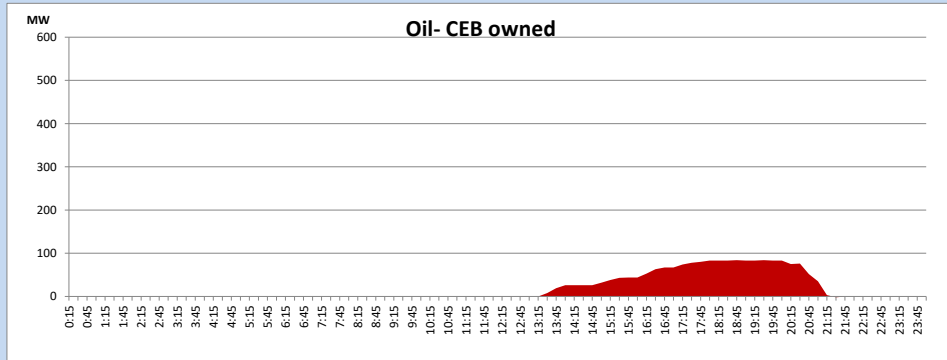
Coal Generation during

December 5, 2024

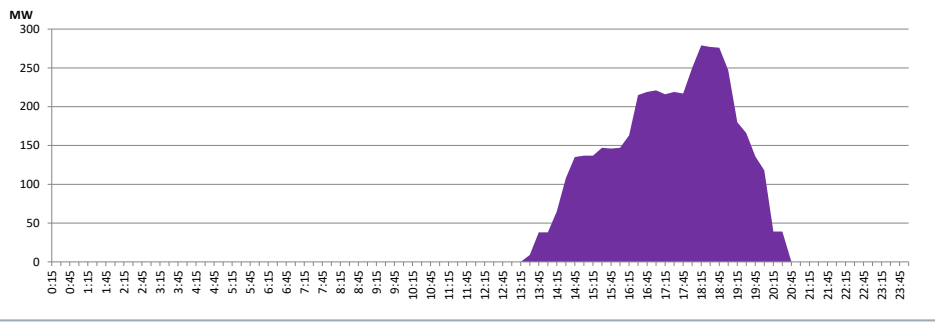


CEB Oil Plant Generation during

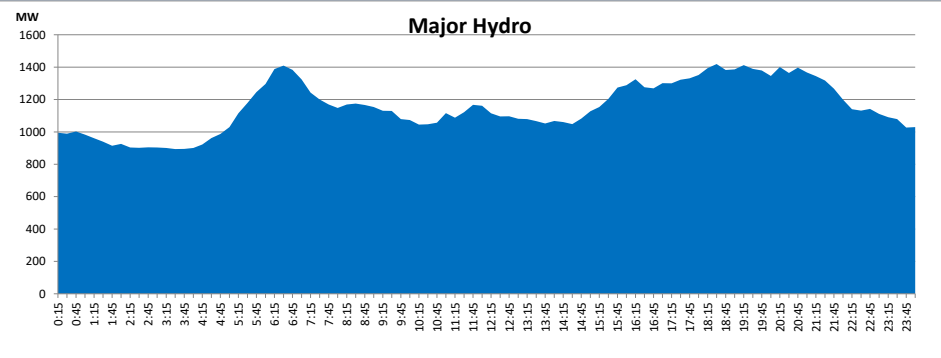
December 5, 2024



IPP Oil Plant Generation during December 5, 2024

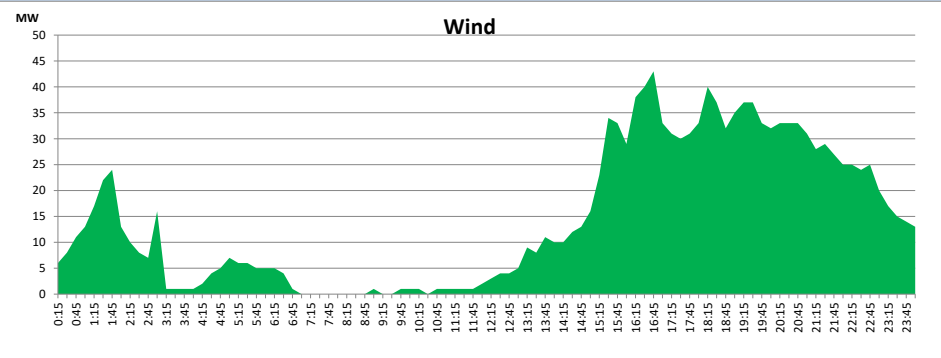


Major Hydro Generation during December 5, 2024



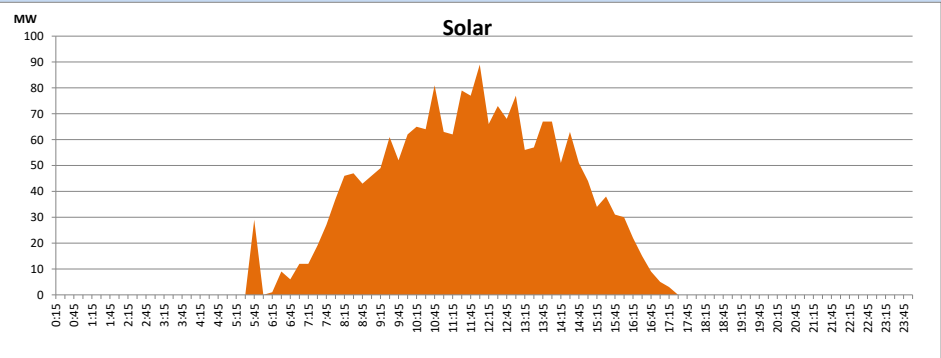
Wind Generation during December 5, 2024

Based on Telemetered Power Stations only



Solar Generation during December 5, 2024

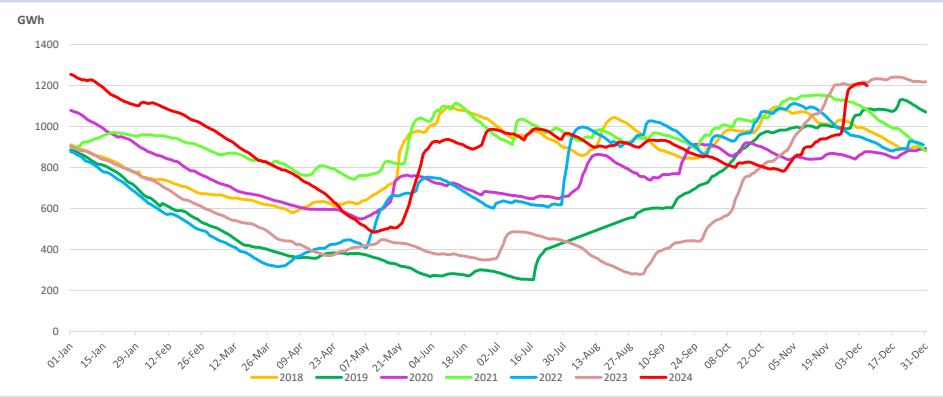
Based on Telemetered Power Stations only



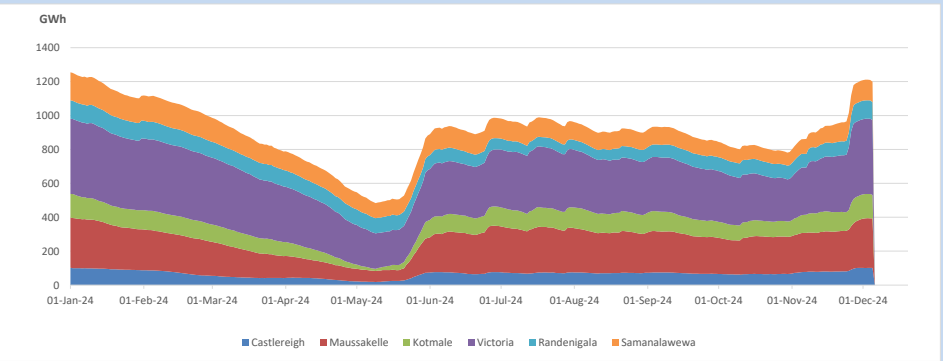
1.14 Major Incidents reported during the day December 5, 2024

- 1) New Anuradhapura - Trincomalee 132kV cct tripped from New Anuradhapura end and tripped & A/R from Trincomalee end at 11:09hrs due to the operation of differential protection. The cct was normalized at 11:19hrs.
- 2) Lakvijaya - New Chilaw 220kV cct 02 tripped & A/R from both ends at 13:03hrs due to the operation of differential protection.

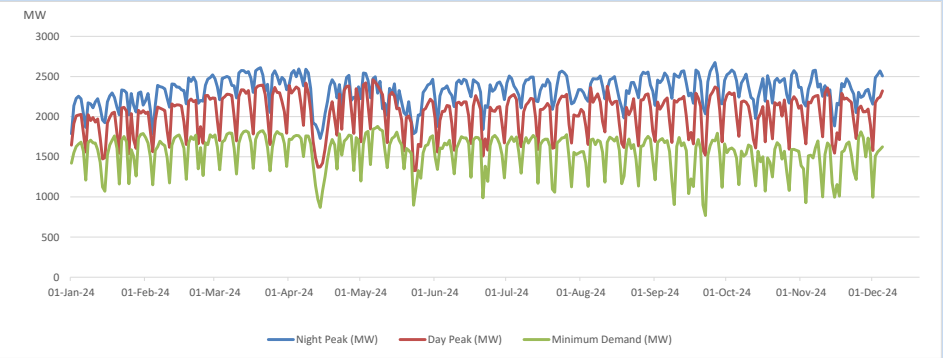
2. Comparison of Total Reservoir Storage Levels with Past Years



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

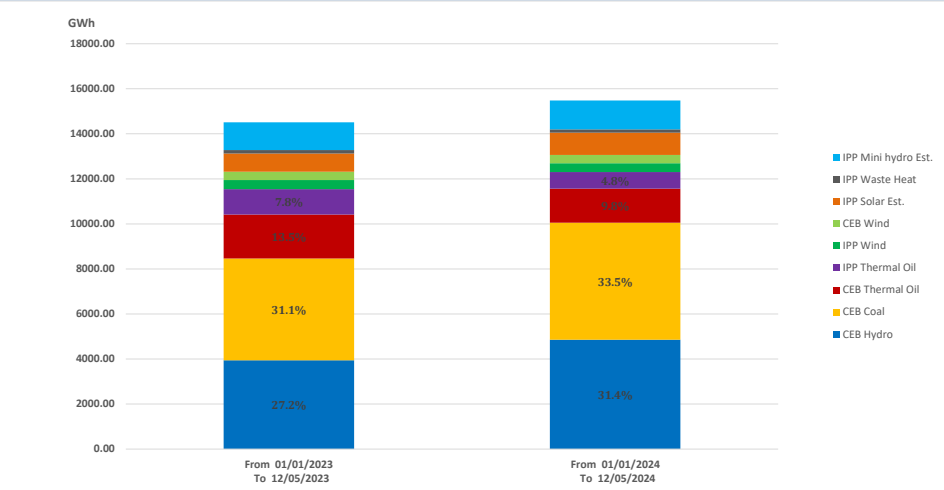


4. Variation of Demand during the current year



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 12/05/2023 14514 GWh
From 01/01/2024 To 12/05/2024 15482 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	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