

Generation and Reservoirs Statistics

December 6, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 6, 2024

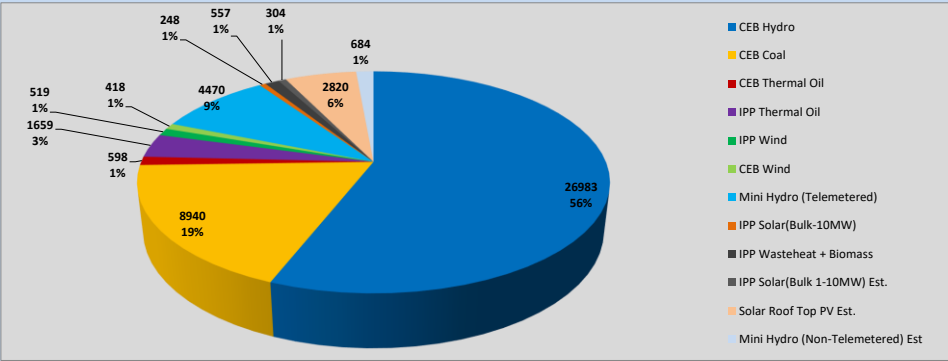


Table 01

	Generation (MWh)
CEB Hydro	26,983
CEB Coal	8,940
CEB Thermal Oil	598
IPP Thermal Oil	1,659
IPP Wind	519
CEB Wind	418
Mini Hydro (Telemetered)	4,470
IPP Solar (Bulk)	248
IPP Waste heat + Biomass	557
Total Generation (Excluding estimated figures)	44,392
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	684
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	48,200
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	148	54.49%
CEB Coal	52	19.10%
CEB Thermal Oil	3	1.07%
IPP Thermal	5	1.91%
IPP Wind	5	1.71%
CEB Wind	3	1.28%
Mini Hydro *	32	11.85%
IPP Solar *	20	7.50%
IPP Waste heat + BMP	3	1.10%
Total	272	

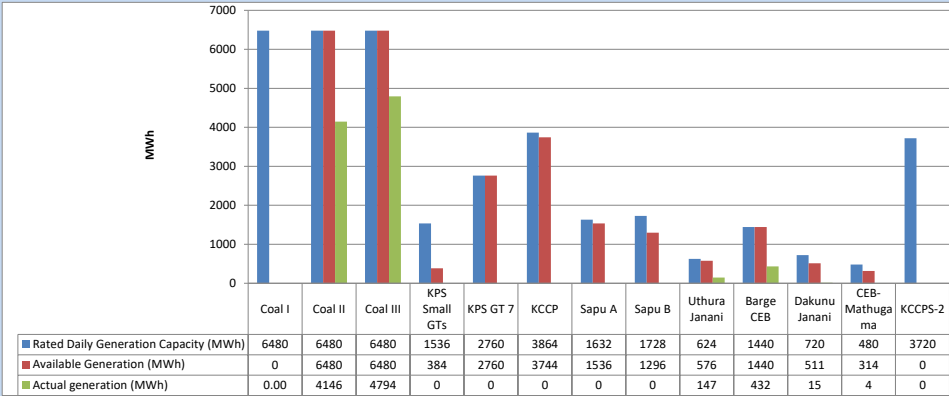
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,886	31.46%
CEB Coal	5,202	33.50%
CEB Thermal Oil	1,515	9.76%
IPP Thermal	741	4.77%
IPP Wind	388	2.50%
CEB Wind	369	2.38%
Mini Hydro *	1,287	8.29%
IPP Solar *	992	6.39%
IPP Waste heat	149	0.96%
Total	15,530	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

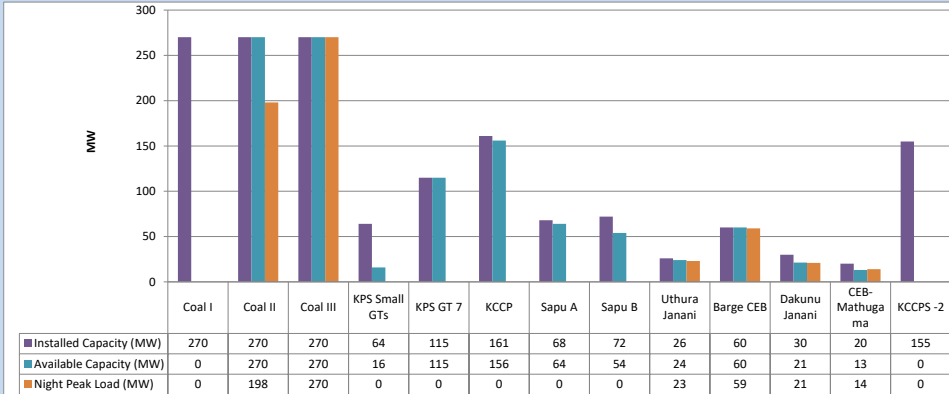
December 6, 2024



Available Generation is estimated based on plant availability at 6.00am on December 7, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

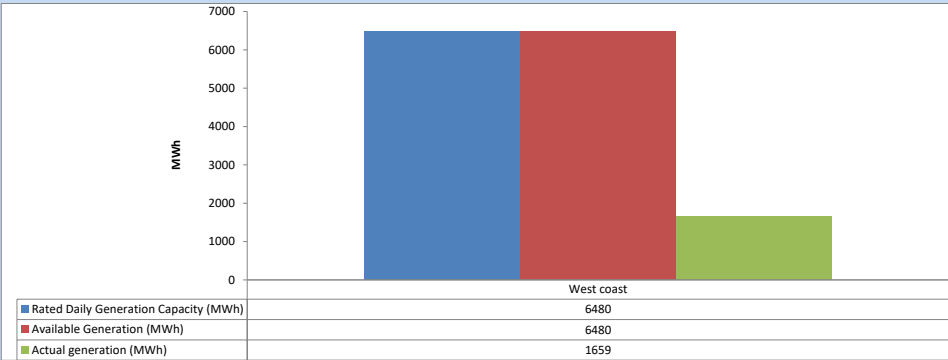
December 6, 2024



Plant availability is recorded at 6.00 am on December 7, 2024

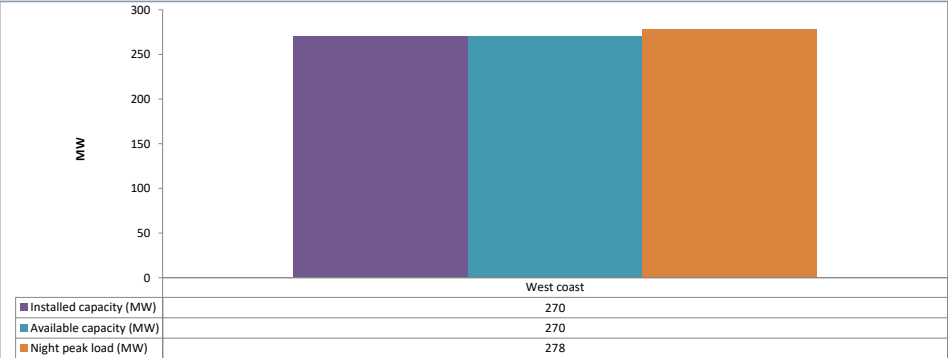
1.4 IPP owned Thermal Plant Dispatch

December 6, 2024



Available Generation is estimated based on plant availability at 6.00am on December 7, 2024

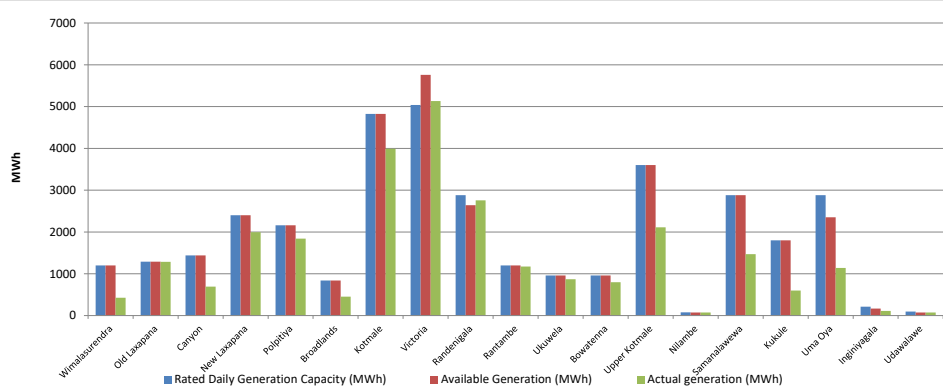
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on December 7, 2024

1.6 Major Hydro Plant Dispatch

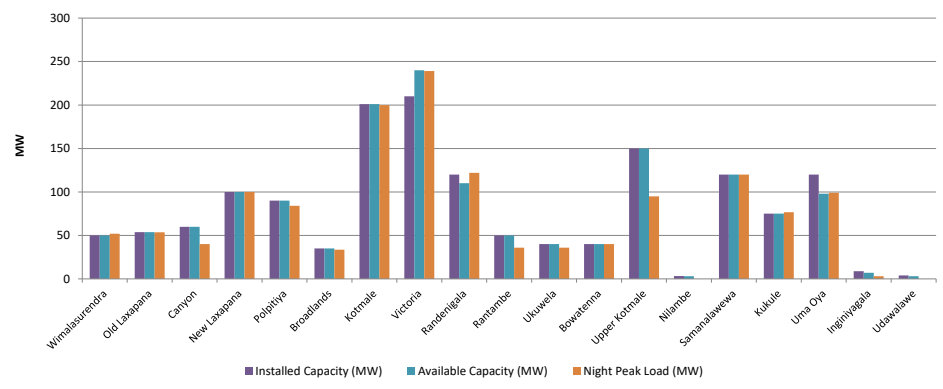
December 6, 2024



Available Generation is estimated based on plant availability at 6.00am on December 7, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 6, 2024



Plant availability is recorded at 6.00 am on December 7, 2024

1.8 Summary of Major Plant performance

December 6, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	426
Old Laxapana	54	54	54	1,286
Canyon	60	60	40	692
New Laxapana	100	100	100	1,996
Polpitiya	90	90	84	1,840
Broadlands	35	35	34	451
Kotmale	201	201	200	3,990
Victoria	210	240	239	5,131
Randenigala	120	110	122	2,757
Rantambe	50	50	36	1,172
Ukuwela	40	40	36	869
Bowatenna	40	40	40	796
Upper Kotmale	150	150	95	2,111
Nilambe	3	3	0	74
Samanalawewa	120	120	120	1,470
Kukule	75	75	77	600
Uma Oya	120	98	99	1,138
Inginipagala	9	7	3	111
Udawalawe	4	3	0	74
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	198	4,146
Puttalam Coal III	270	270	270	4,794
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	147
Barge CEB	60	60	59	432
CEB-Hambantota	30	21	21	15
CEB-Mathugama	20	13	14	4
KCCPS -2	155	0	0	0
West Coast	270	270	278	1,659
Sobadhanavi	220	212	0	0
Total	3,602	2,859	2,541	44,393

Note- Plant availability is the availability recorded at 6 am on December 7, 2024

1.9 Contribution to the Night Peak in MW

December 6, 2024

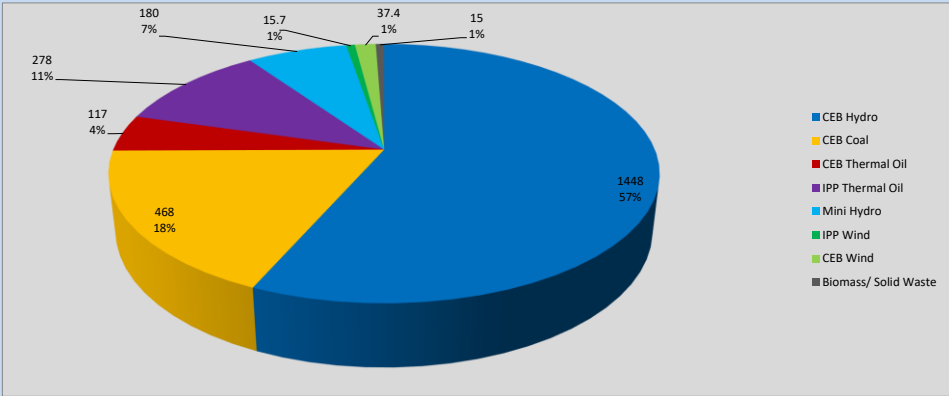


Table 05

CEB Hydro	1448 MW
CEB Coal	468 MW
CEB Thermal Oil	117 MW
IPP Thermal Oil	278 MW
Mini Hydro (Telemetered)	180 MW
IPP Wind	15.7 MW
CEB Wind	37.4 MW
Biomass/ Solid Waste	15 MW

Recorded Peak Demand Data

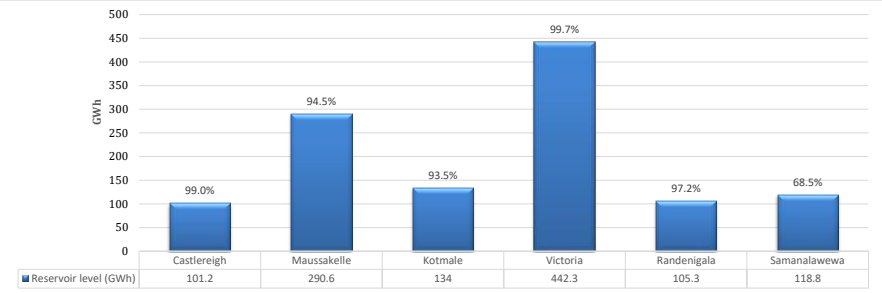
Table 06

Night Peak*	2,559 MW
Day Peak Maximum Demand	2,282 MW
Day Peak Minimum Demand	1,628 MW
Off Peak Minimum Demand	1,410 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 7, 2024



Total Reservoir Level 1192.2 GWh
% of Total capacity 93.3%

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

December 6, 2024

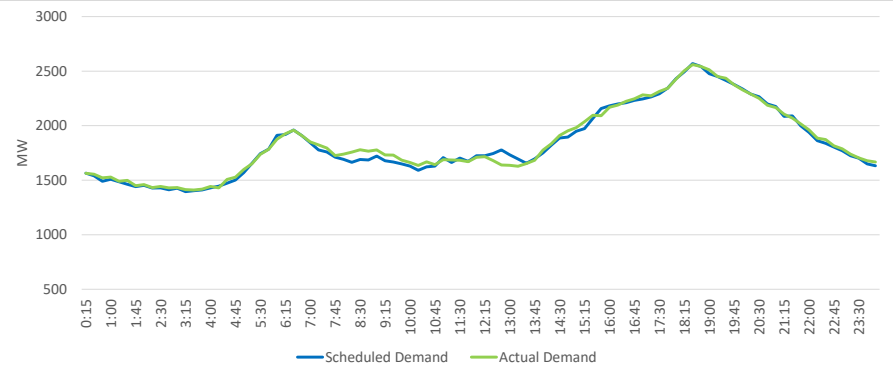
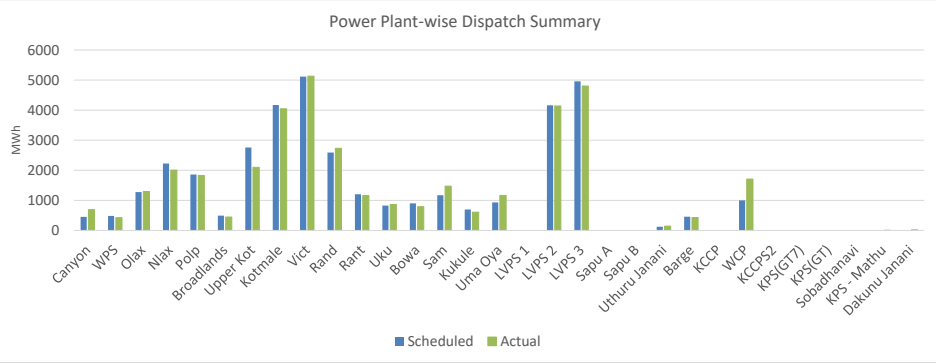


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	27,134	26,983	(151)
CEB Coal	9,121	8,940	(181)
CEB Thermal Oil	587	598	11
IPP Thermal Oil	1,001	1,659	658
NCRE (excluding non telemetered power plants)	6,208	6,212	4
Total	44,052	44,392	340

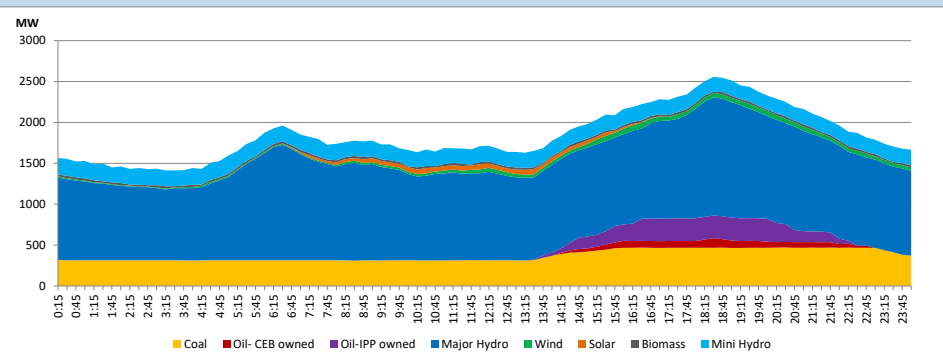
1.12 Power Plant-wise Dispatch Summary

December 6, 2024



1.13 Daily Load Curve

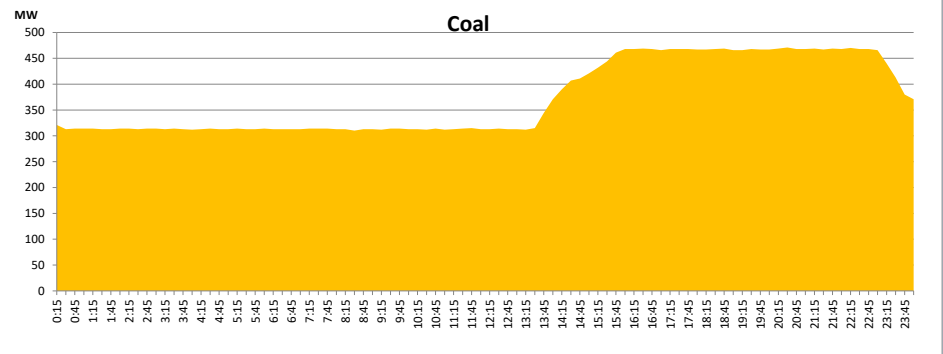
December 6, 2024



Solar and wind data is based on Telemetered Power Stations only

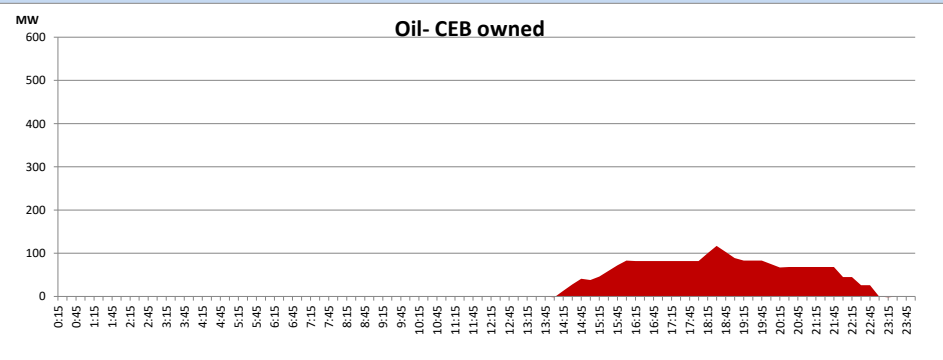
Coal Generation during

December 6, 2024

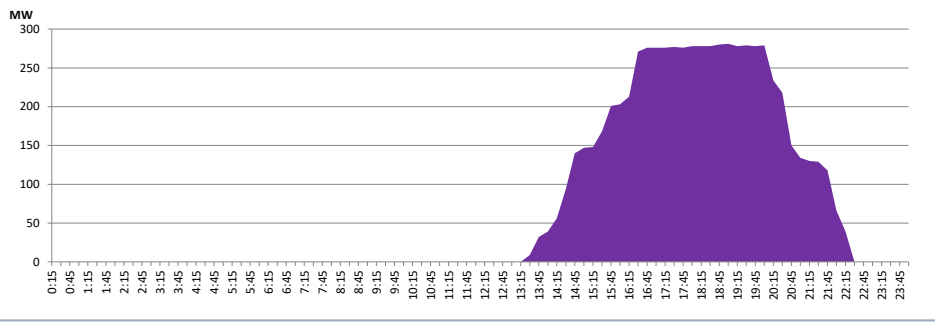


CEB Oil Plant Generation during

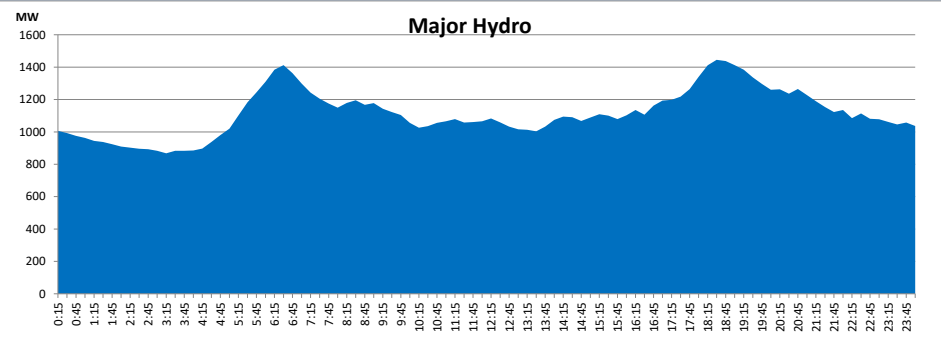
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IPP Oil Plant Generation during December 6, 2024

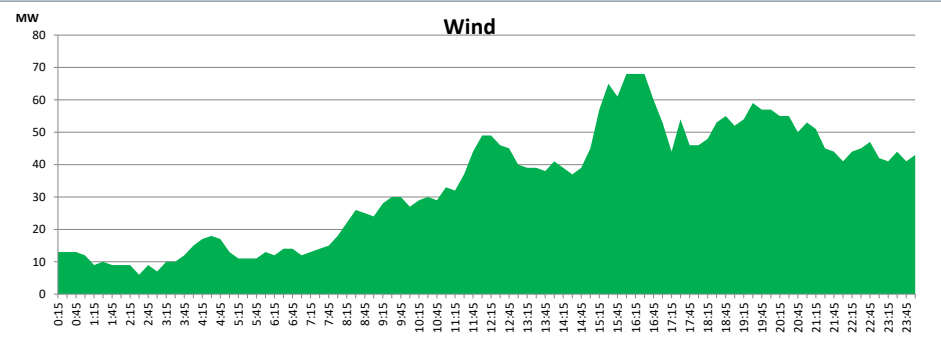


Major Hydro Generation during December 6, 2024



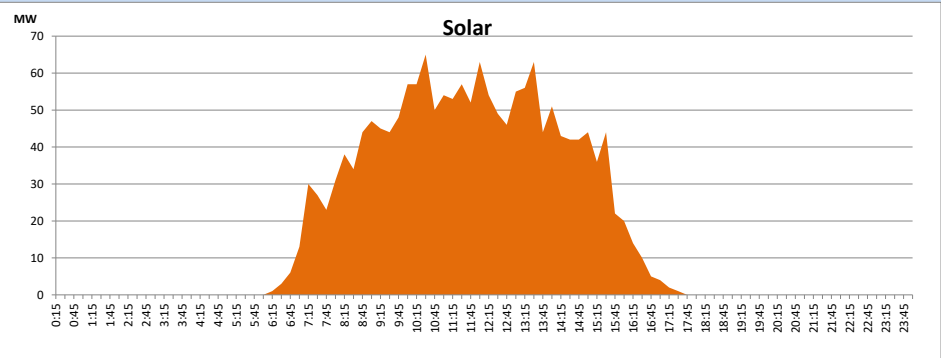
Wind Generation during December 6, 2024

Based on Telemetered Power Stations only



Solar Generation during December 6, 2024

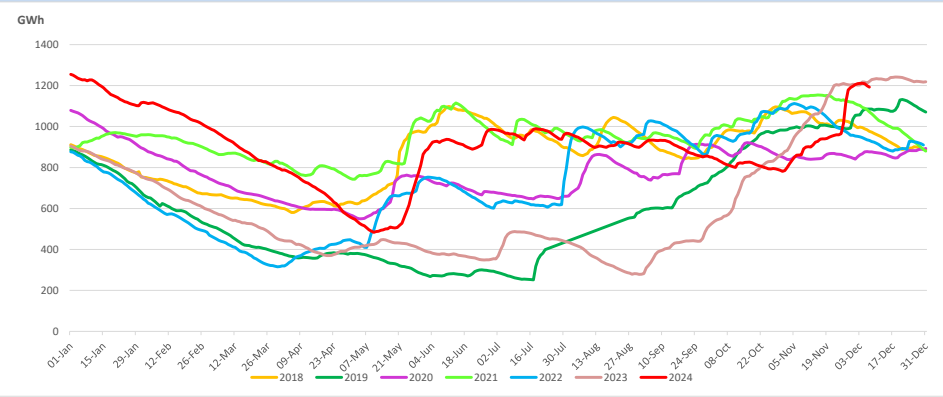
Based on Telemetered Power Stations only



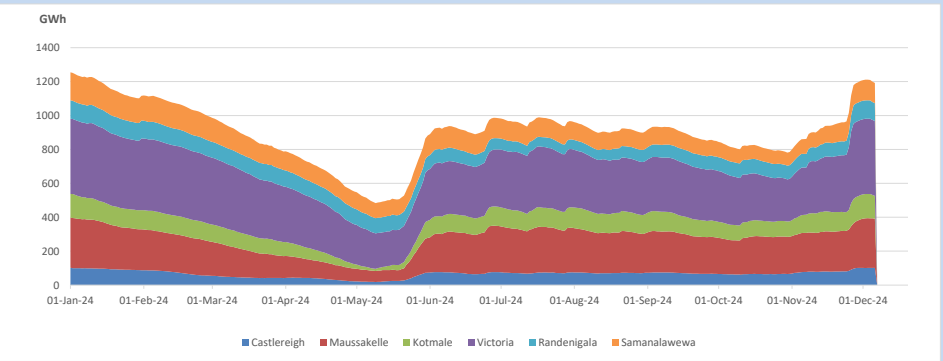
1.14 Major Incidents reported during the day December 6, 2024

1) Nil.

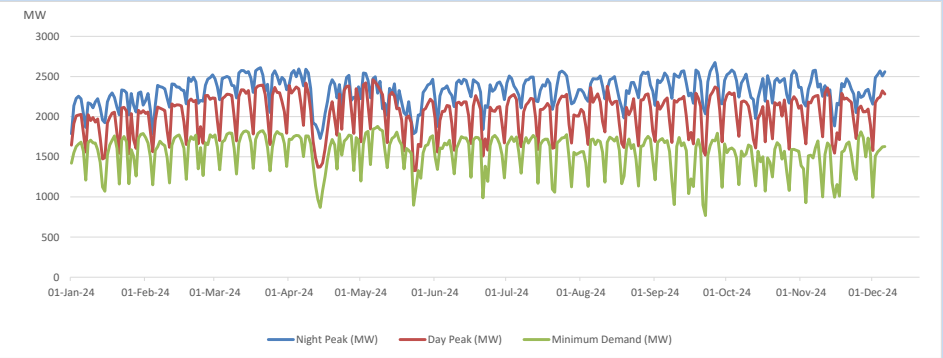
2. Comparison of Total Reservoir Storage Levels with Past Years



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

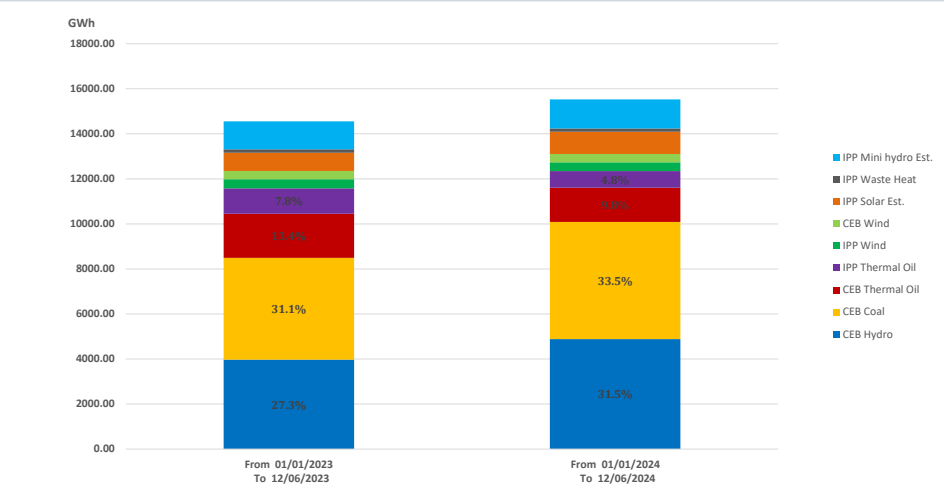


4. Variation of Demand during the current year



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 12/06/2023 14556 GWh
From 01/01/2024 To 12/06/2024 15530 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