

Generation and Reservoirs Statistics

December 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 23, 2024

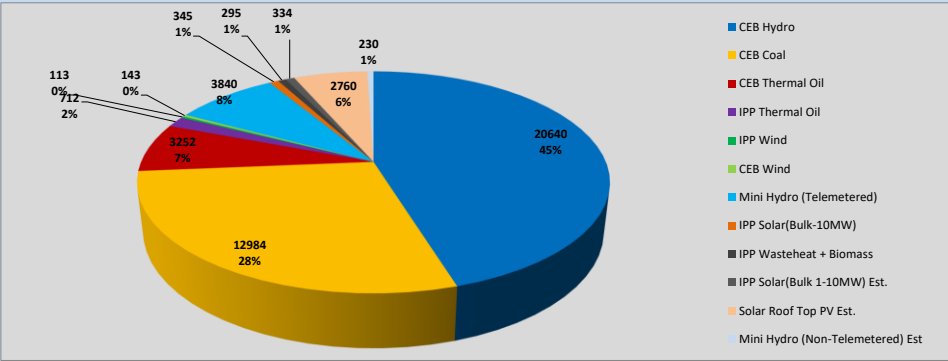


Table 01

	Generation (MWh)
CEB Hydro	20,640
CEB Coal	12,984
CEB Thermal Oil	3,252
IPP Thermal Oil	712
IPP Wind	113
CEB Wind	143
Mini Hydro (Telemetered)	3,840
IPP Solar (Bulk)	345
IPP Waste heat + Biomass	295
Total Generation (Excluding estimated figures)	42,324
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	230
* Estimated IPP Solar PV (Bulk 1-10MW)	334
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	45,648
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	560	53.30%
CEB Coal	233	22.14%
CEB Thermal Oil	15	1.44%
IPP Thermal	22	2.07%
IPP Wind	12	1.18%
CEB Wind	13	1.26%
Mini Hydro *	110	10.42%
IPP Solar *	77	7.37%
IPP Waste heat + BMP	9	0.81%
Total	1,051	

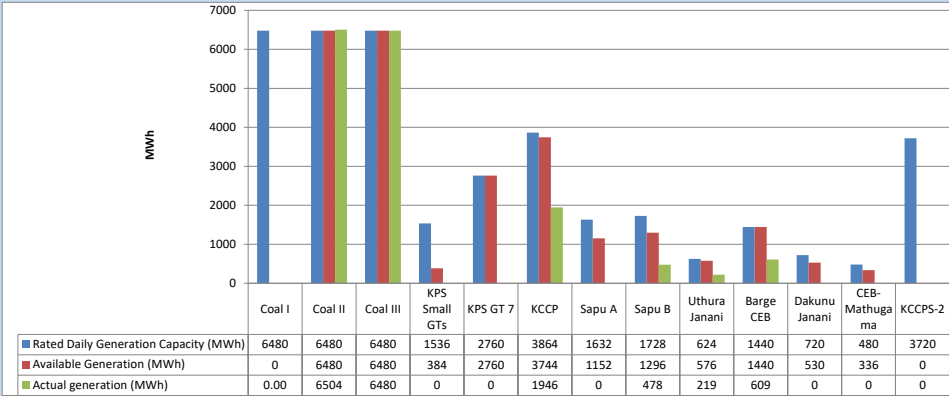
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,298	32.49%
CEB Coal	5,383	33.01%
CEB Thermal Oil	1,527	9.36%
IPP Thermal	757	4.64%
IPP Wind	396	2.43%
CEB Wind	379	2.32%
Mini Hydro *	1,364	8.36%
IPP Solar *	1,050	6.44%
IPP Waste heat	154	0.95%
Total	16,309	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

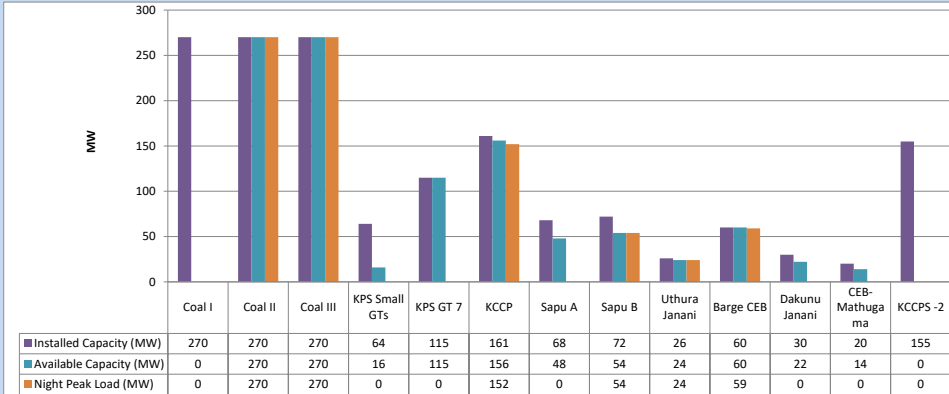
December 23, 2024



Available Generation is estimated based on plant availability at 6.00am on December 24, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

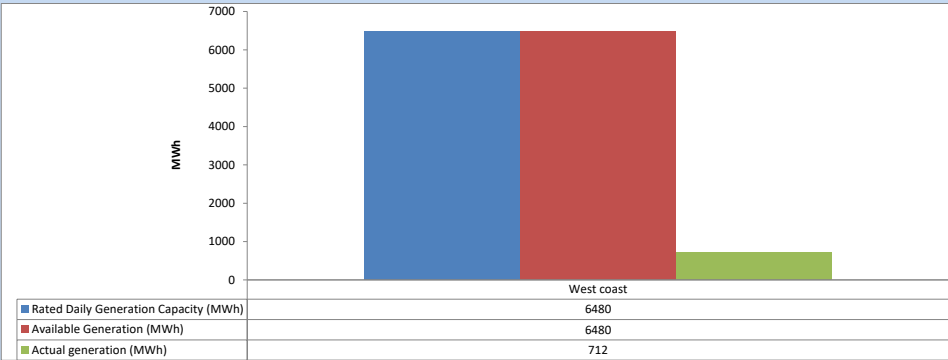
December 23, 2024



Plant availability is recorded at 6.00 am on December 24, 2024

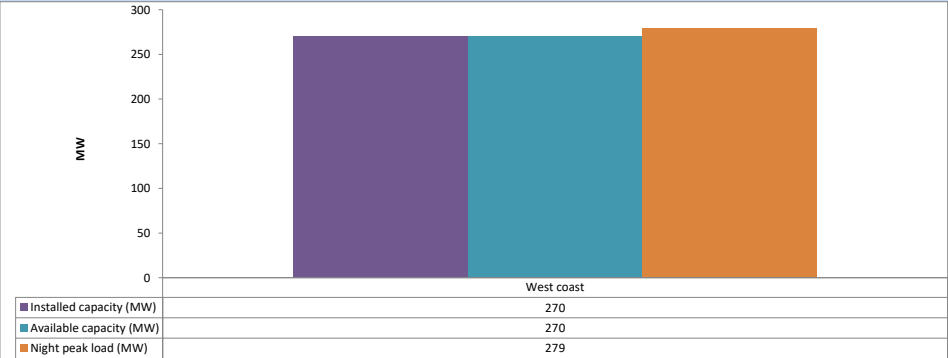
1.4 IPP owned Thermal Plant Dispatch

December 23, 2024



Available Generation is estimated based on plant availability at 6.00am on December 24, 2024

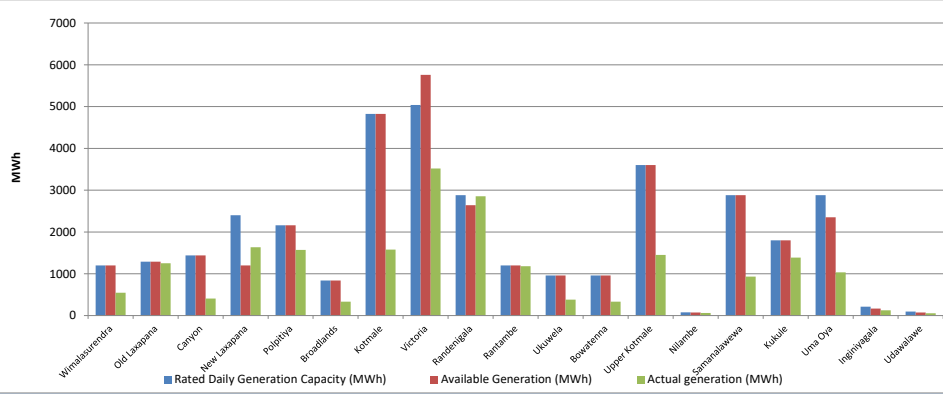
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on December 24, 2024

1.6 Major Hydro Plant Dispatch

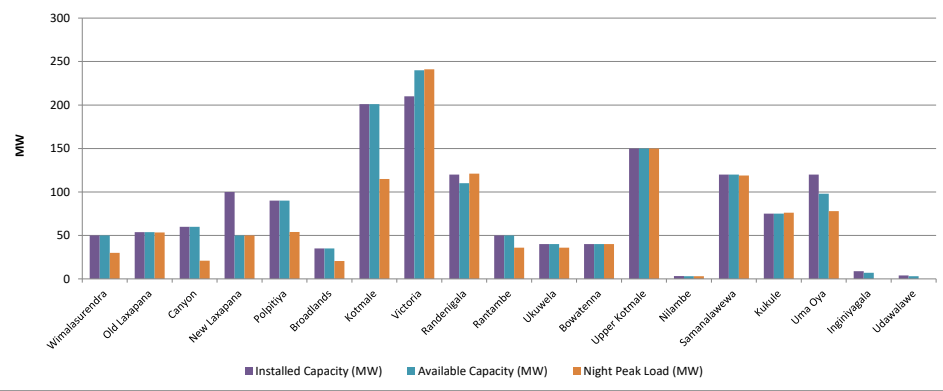
December 23, 2024



Available Generation is estimated based on plant availability at 6.00am on December 24, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 23, 2024



Plant availability is recorded at 6.00 am on December 24, 2024

1.8 Summary of Major Plant performance

December 23, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	547
Old Laxapana	54	54	53	1,250
Canyon	60	60	21	409
New Laxapana	100	50	50	1,635
Polpitiya	90	90	54	1,570
Broadlands	35	35	21	333
Kotmale	201	201	115	1,580
Victoria	210	240	241	3,519
Randenigala	120	110	121	2,856
Rantambe	50	50	36	1,182
Ukuwela	40	40	36	382
Bowatenna	40	40	40	332
Upper Kotmale	150	150	150	1,451
Nilambe	3	3	3	63
Samanalawewa	120	120	119	932
Kukule	75	75	76	1,388
Uma Oya	120	98	78	1,034
Inginipagala	9	7	0	125
Udawalawe	4	3	0	55
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,504
Puttalam Coal III	270	270	270	6,480
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	152	1,946
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	54	478
Uthura Janani	26	24	24	219
Barge CEB	60	60	59	609
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	279	712
Sobadhanavi	220	212	0	0
Total	3,602	2,795	2,524	42,327

Note- Plant availability is the availability recorded at 6 am on December 24, 2024

1.9 Contribution to the Night Peak in MW

December 23, 2024

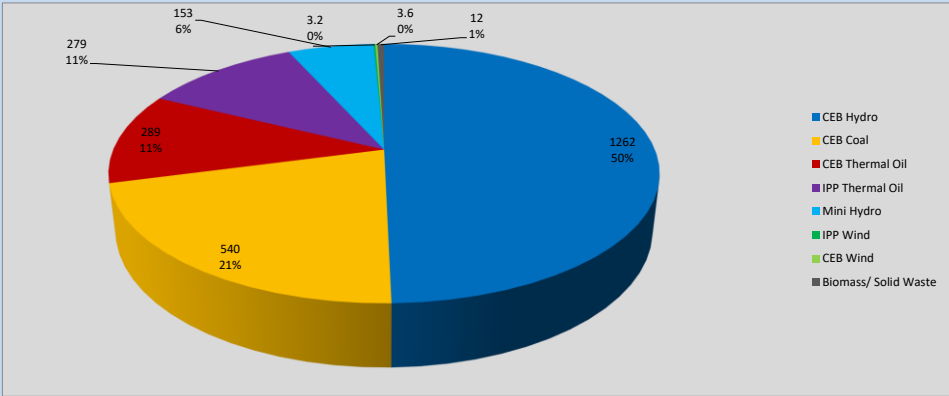


Table 05

CEB Hydro	1,262	MW
CEB Coal	540	MW
CEB Thermal Oil	289	MW
IPP Thermal Oil	279	MW
Mini Hydro (Telemetered)	153	MW
IPP Wind	3.2	MW
CEB Wind	3.6	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

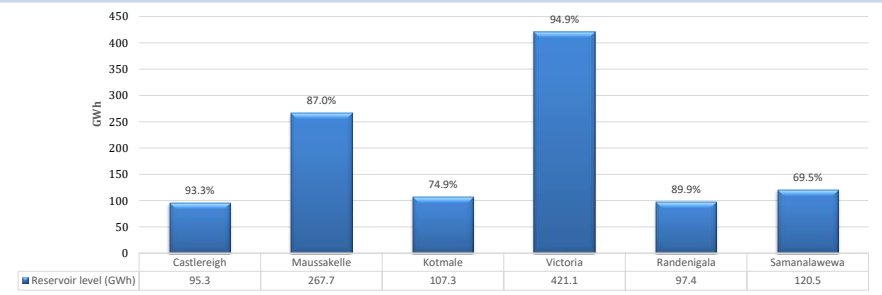
Table 06

Night Peak*	2,542	MW
Day Peak Maximum Demand	2,160	MW
Day Peak Minimum Demand	1,483	MW
Off Peak Minimum Demand	1,313	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 24, 2024



Total Reservoir Level
% of Total capacity

1,109 GWh
86.8%

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

December 23, 2024

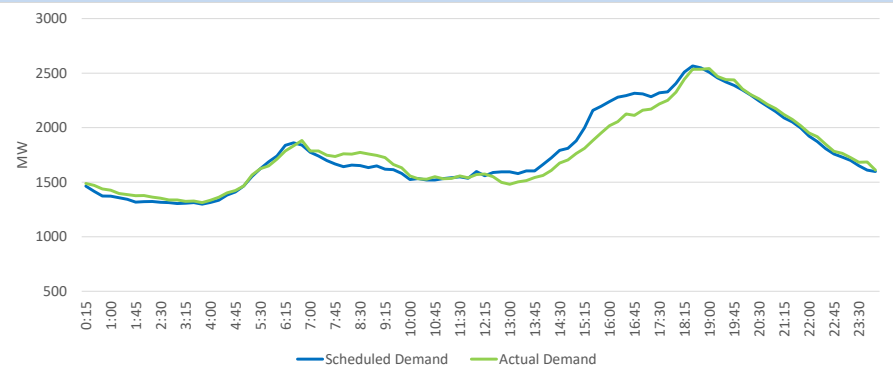
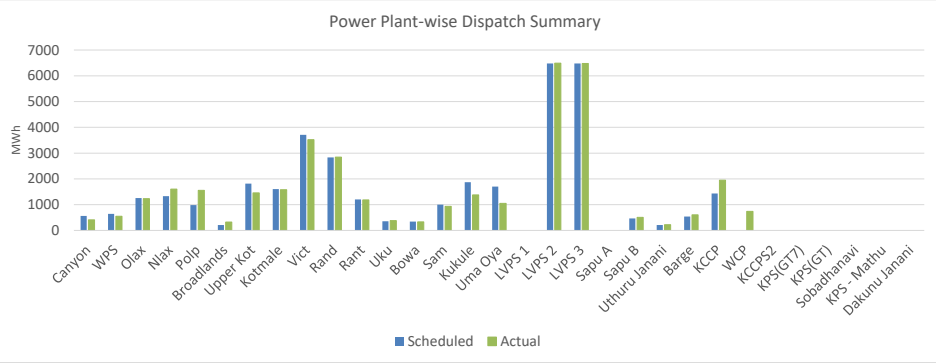


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	21,414	20,640	(774)
CEB Coal	12,960	12,984	24
CEB Thermal Oil	2,647	3,252	605
IPP Thermal Oil	-	712	712
NCRE (excluding non telemetered power plants)	5,610	4,736	(874)
Total	42,631	42,324	(307)

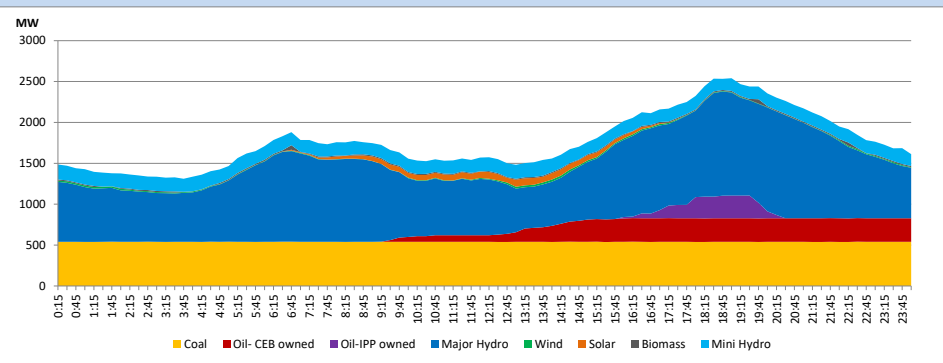
1.12 Power Plant-wise Dispatch Summary

December 23, 2024



1.13 Daily Load Curve

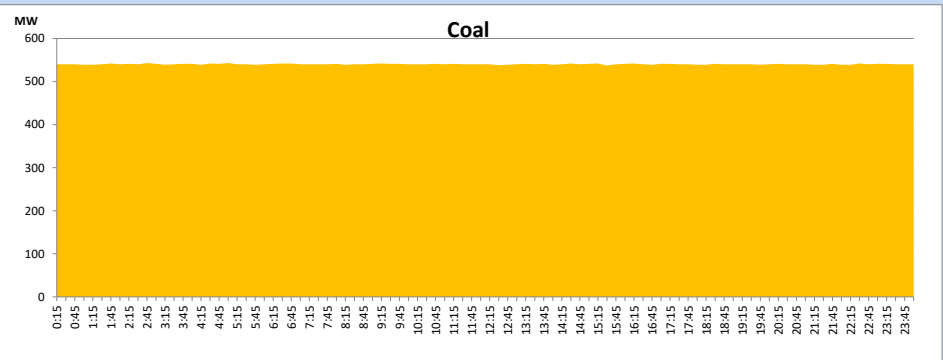
December 23, 2024



Solar and wind data is based on Telemetered Power Stations only

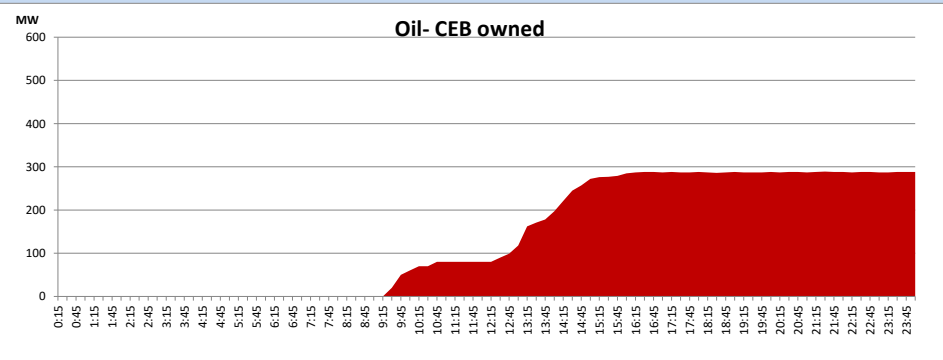
Coal Generation during

December 23, 2024

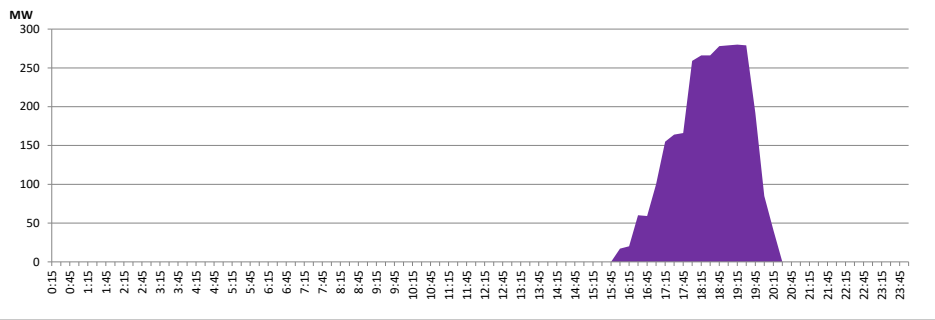


CEB Oil Plant Generation during

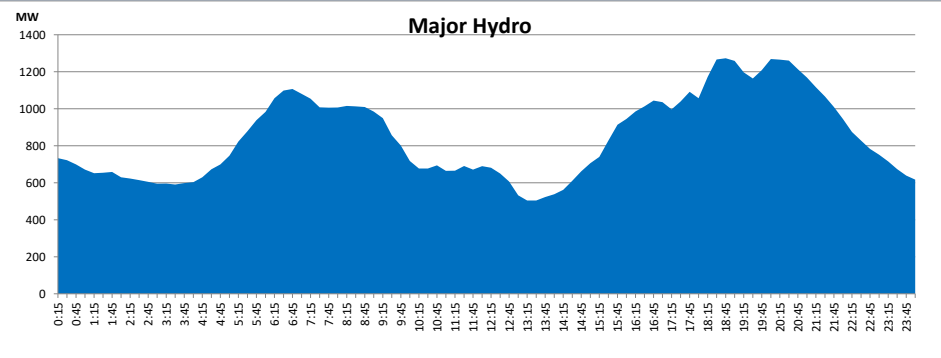
December 23, 2024



IPP Oil Plant Generation during December 23, 2024

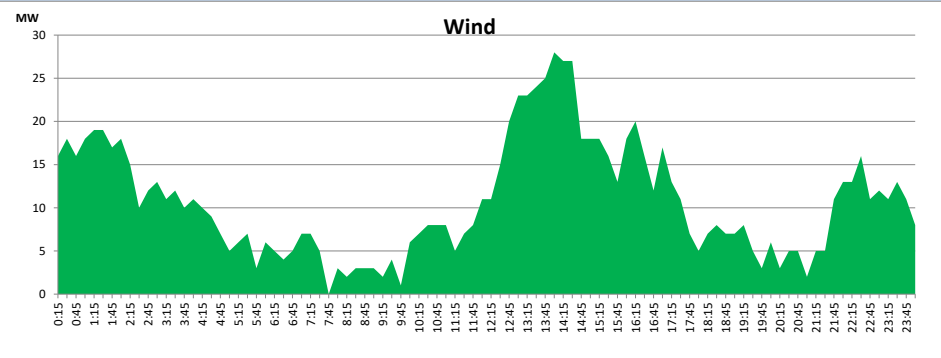


Major Hydro Generation during December 23, 2024



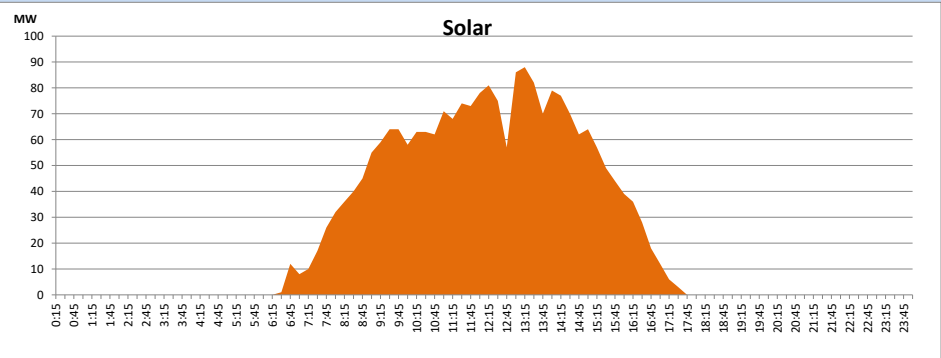
Wind Generation during December 23, 2024

Based on Telemetered Power Stations only



Solar Generation during December 23, 2024

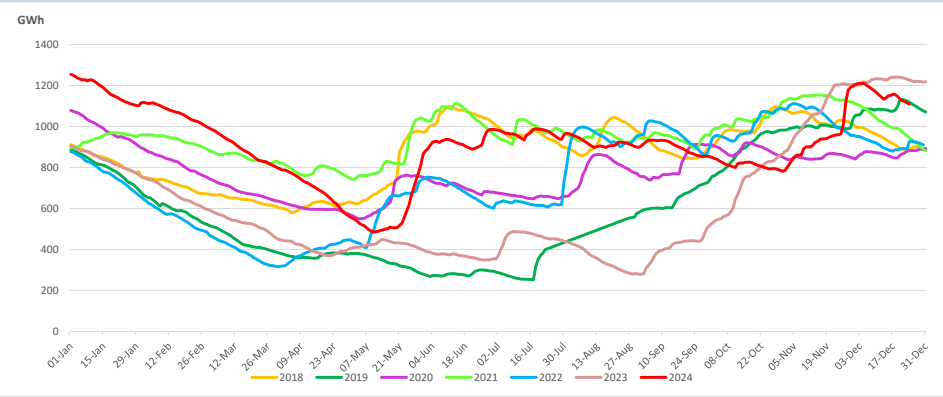
Based on Telemetered Power Stations only



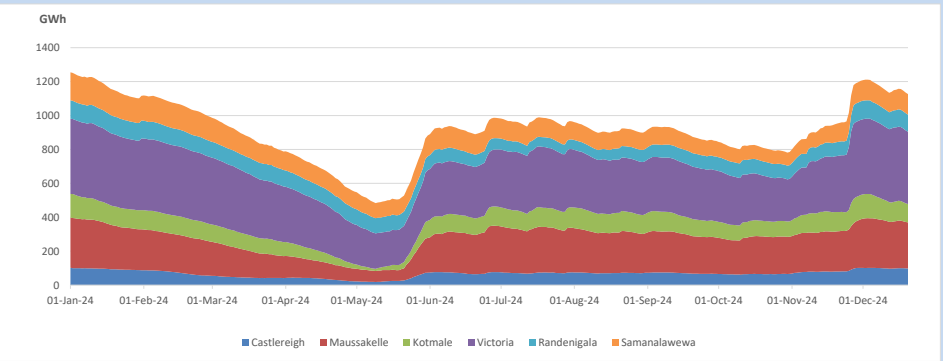
1.14 Major Incidents reported during the day December 23, 2024

- 1) LVPS - N'Chilaw 220kV cct 02 tripped and A/R from both ends at 13:00hrs due to the operation of Differential protection.

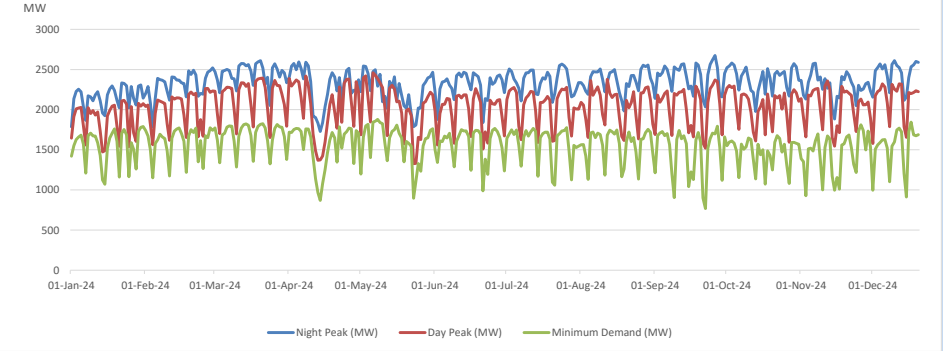
2. Comparison of Total Reservoir Storage Levels with Past Years



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

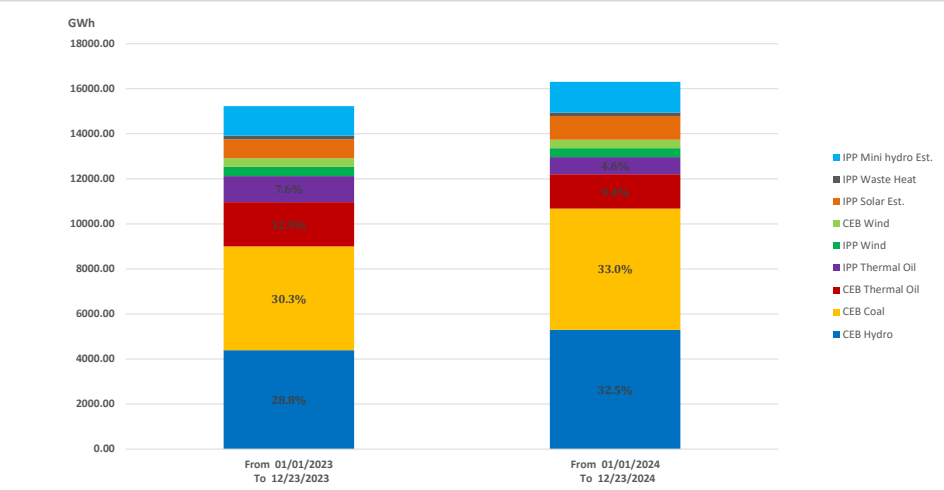


4. Variation of Demand during the current year



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 12/23/2023 15,226 GWh
From 01/01/2024 To 12/23/2024 16,309 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