

Generation and Reservoirs Statistics

December 11, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 11, 2024

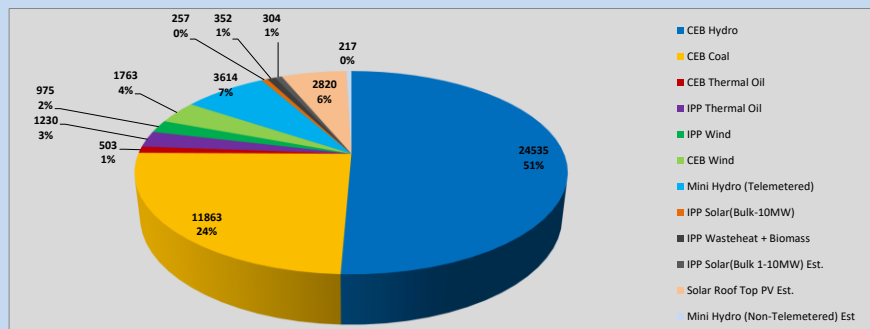


Table 01

	Generation (MWh)
CEB Hydro	24,535
CEB Coal	11,863
CEB Thermal Oil	503
IPP Thermal Oil	1,230
IPP Wind	975
CEB Wind	1,763
Mini Hydro (Telemetered)	3,614
IPP Solar (Bulk)	257
IPP Waste heat + Biomass	352
Total Generation (Excluding estimated figures)	45,092
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	217
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	48,433

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	275	55.05%
CEB Coal	101	20.10%
CEB Thermal Oil	5	1.07%
IPP Thermal	10	1.96%
IPP Wind	7	1.42%
CEB Wind	7	1.43%
Mini Hydro *	53	10.58%
IPP Solar *	37	7.47%
IPP Waste heat + BMP	5	0.92%
Total	500	

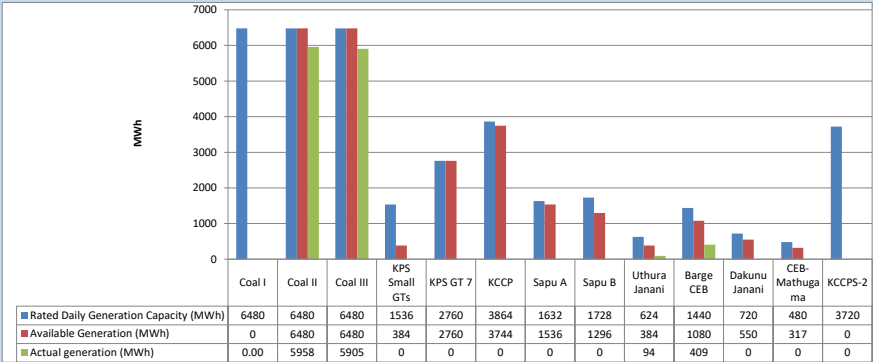
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,014	31.82%
CEB Coal	5,251	33.32%
CEB Thermal Oil	1,517	9.63%
IPP Thermal	745	4.73%
IPP Wind	391	2.48%
CEB Wind	373	2.37%
Mini Hydro *	1,308	8.30%
IPP Solar *	1,009	6.41%
IPP Waste heat	150	0.95%
Total	15,758	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 11, 2024

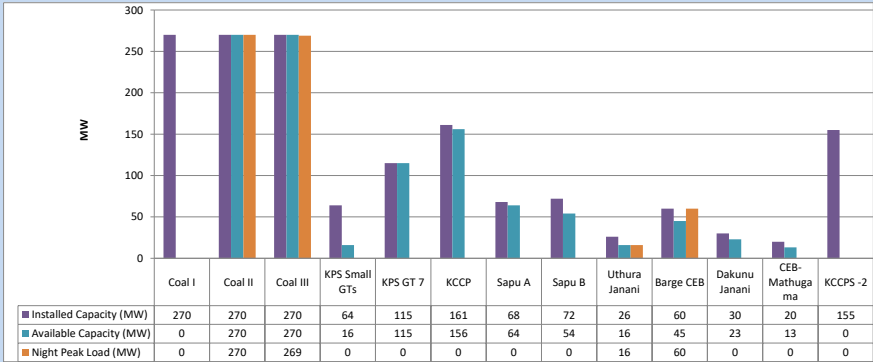


Available Generation is estimated based on plant availability at 6.00am on

December 12, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 11, 2024

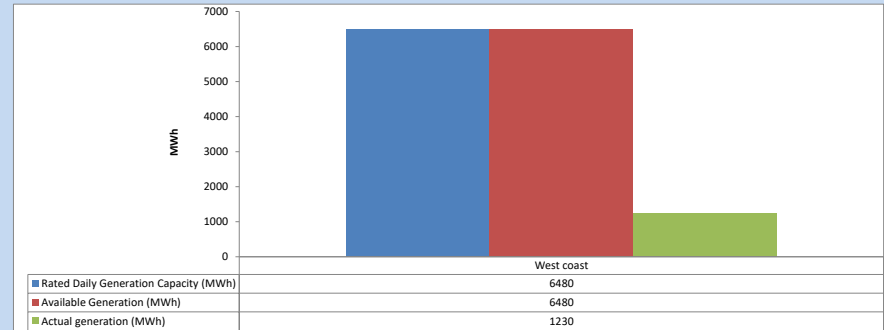


Plant availability is recorded at 6.00 am on

December 12, 2024

1.4 IPP owned Thermal Plant Dispatch

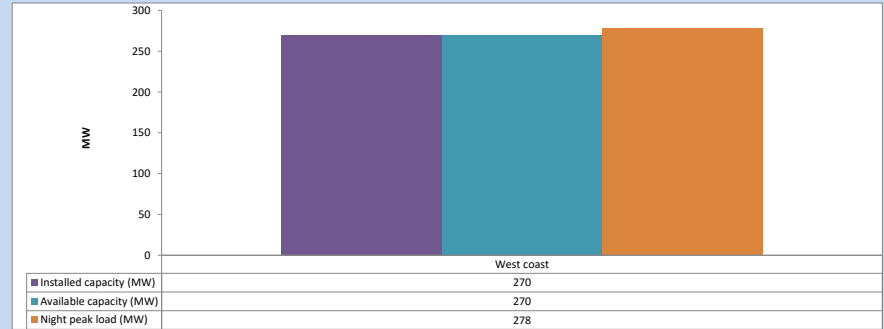
December 11, 2024



Available Generation is estimated based on plant availability at 6.00am on

December 12, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

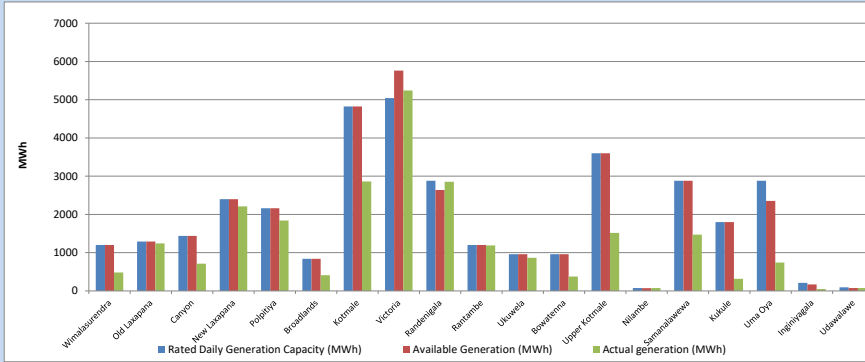


Plant availability is recorded at 6.00 am on

December 12, 2024

1.6 Major Hydro Plant Dispatch

December 11, 2024

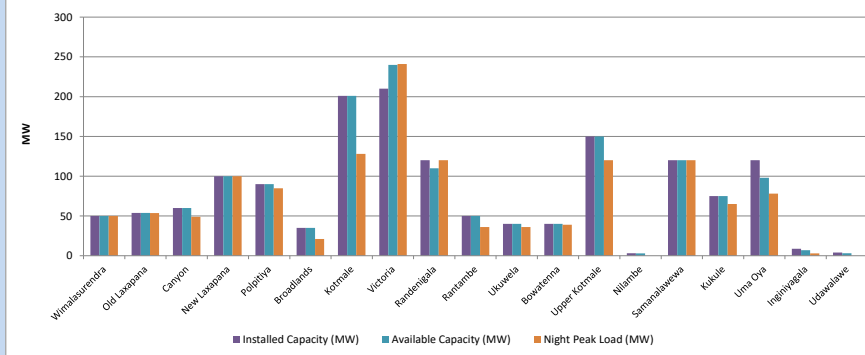


Available Generation is estimated based on plant availability at 6.00am on

December 12, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 11, 2024



Plant availability is recorded at 6.00 am on

December 12, 2024

1.8 Summary of Major Plant performance

December 11, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	482
Old Laxapana	54	54	54	1,243
Canyon	60	60	49	712
New Laxapana	100	100	100	2,211
Polpitiya	90	90	85	1,840
Broadlands	35	35	21	409
Kotmale	201	201	128	2,860
Victoria	210	240	241	5,243
Randenigala	120	110	120	2,853
Rantambe	50	50	36	1,191
Ukuwela	40	40	36	865
Bowatenna	40	40	39	378
Upper Kotmale	150	150	120	1,517
Nilambe	3	3	0	75
Samanalawewa	120	120	120	1,472
Kukule	75	75	65	316
Uma Oya	120	98	78	743
Inginigala	9	7	3	50
Udawalawe	4	3	0	76
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	5,958
Puttalam Coal III	270	270	269	5,905
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	16	16	94
Barge CEB	60	45	60	409
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	278	1,230
Sobadhanavi	220	212	0	0
Total	3,602	2,838	2,535	45,093

Note-

Plant availability is the availability recorded at 6 am on

December 12, 2024

1.9 Contribution to the Night Peak in MW

December 11, 2024

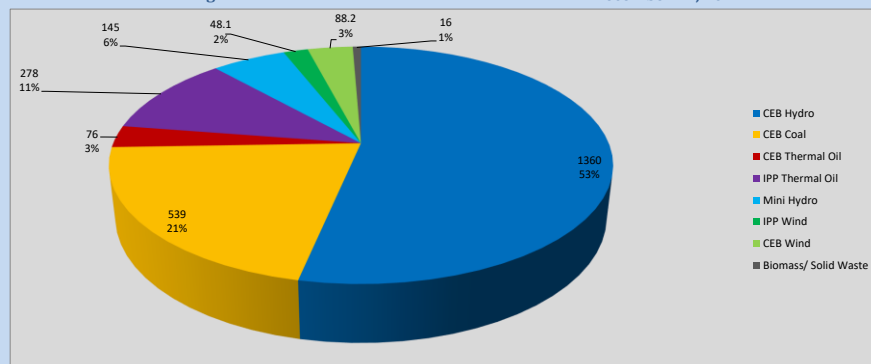


Table 05

CEB Hydro	1360	MW
CEB Coal	539	MW
CEB Thermal Oil	76	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	145	MW
IPP Wind	48.1	MW
CEB Wind	88.2	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

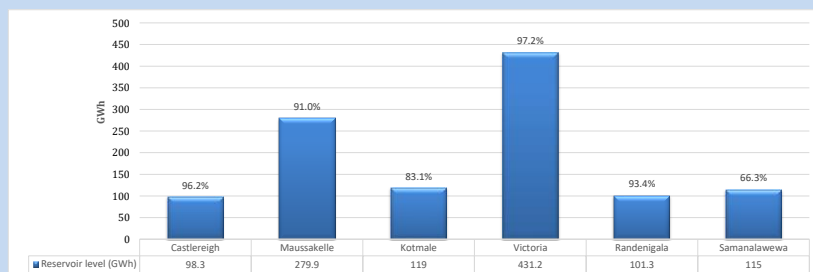
Table 06

Night Peak*	2,550	MW
Day Peak Maximum Demand	2,229	MW
Day Peak Minimum Demand	1,747	MW
Off Peak Minimum Demand	1,425	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 12, 2024



Total Reservoir Level
% of Total capacity

1144.7 GWh
89.5%

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

December 11, 2024

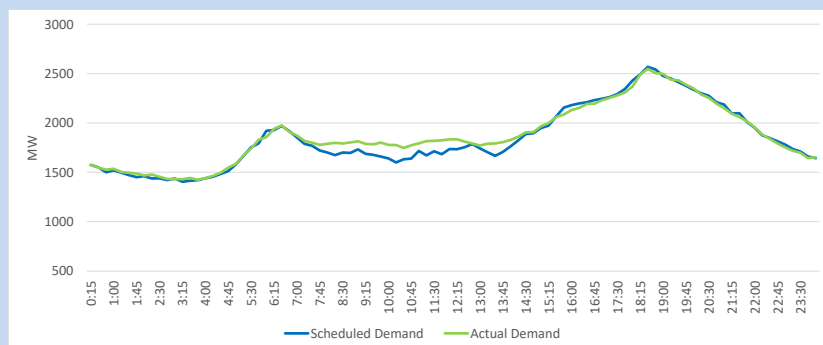
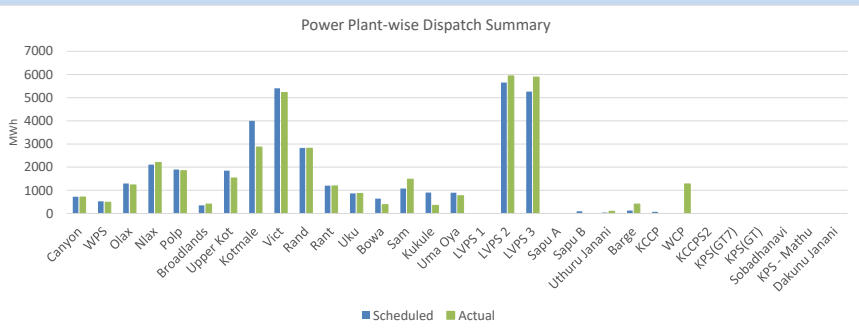


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	26,558	24,535	(2,023)
CEB Coal	10,907	11,863	956
CEB Thermal Oil	330	503	173
IPP Thermal Oil	-	1,230	1,230
NCRE (excluding non telemetered power plants)	6,437	6,961	524
Total	44,232	45,092	860

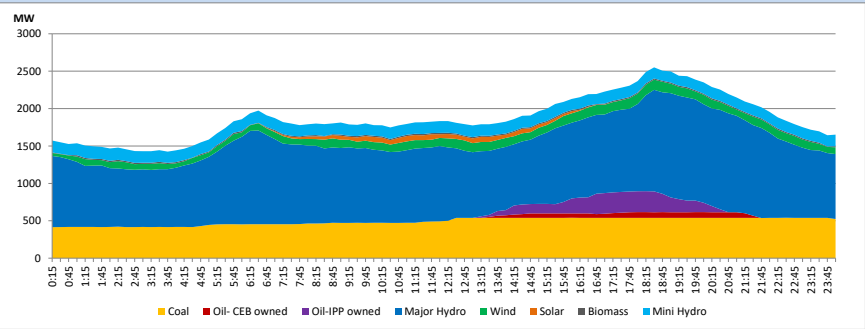
1.12 Power Plant-wise Dispatch Summary

December 11, 2024



1.13 Daily Load Curve

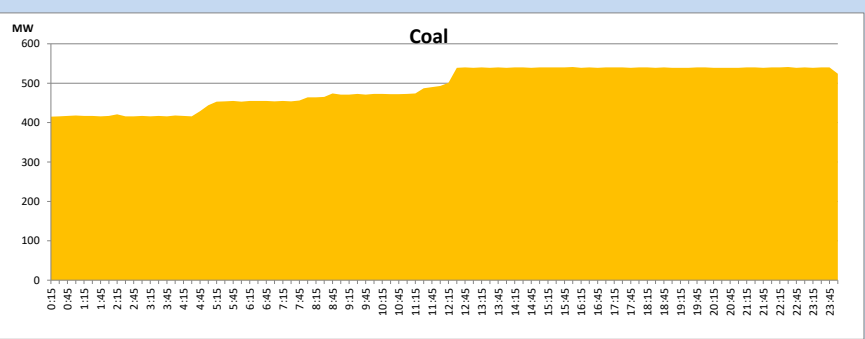
December 11, 2024



Solar and wind data is based on Telemetered Power Stations only

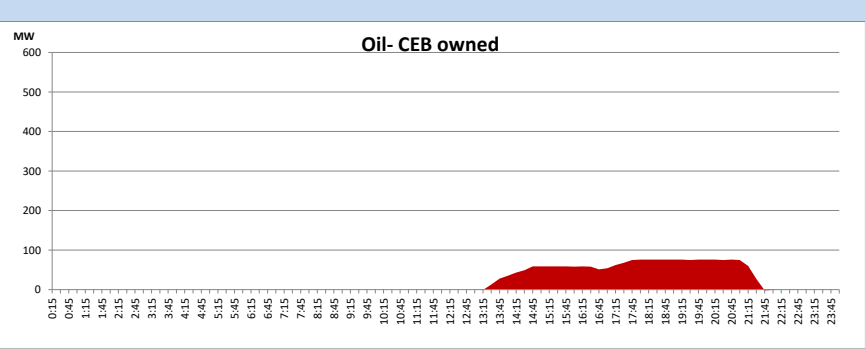
Coal Generation during

December 11, 2024

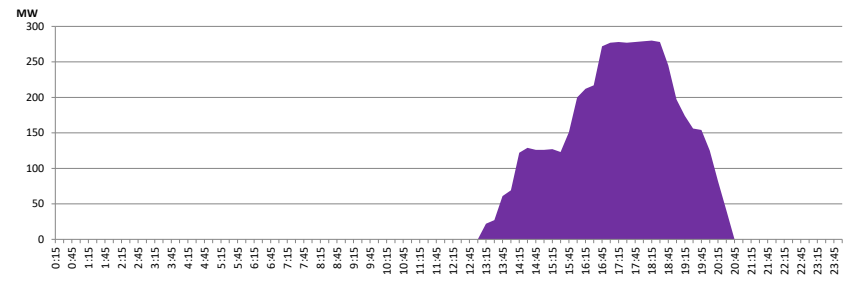


CEB Oil Plant Generation during

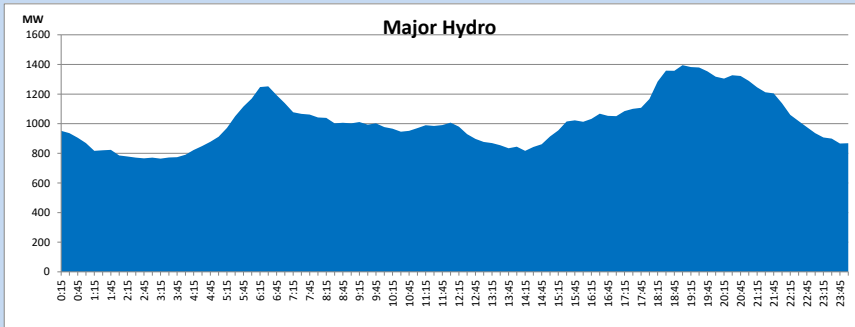
December 11, 2024



IPP Oil Plant Generation during December 11, 2024

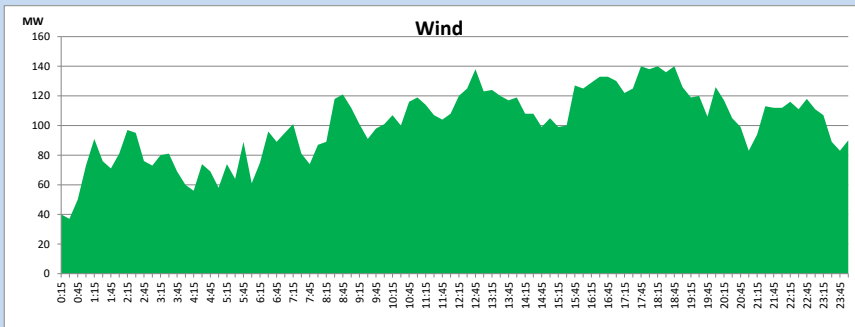


Major Hydro Generation during December 11, 2024



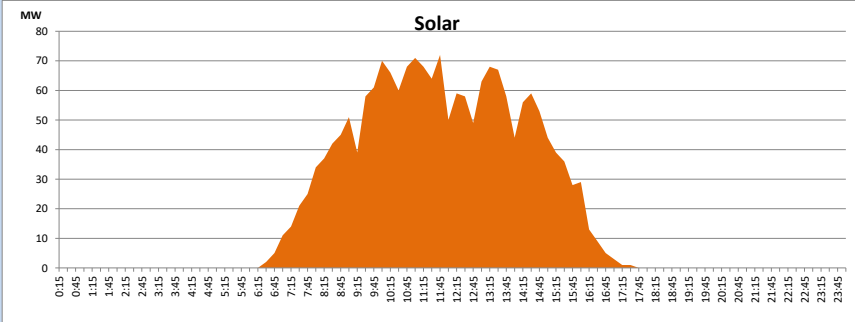
Wind Generation during December 11, 2024

Based on Telemetered Power Stations only



Solar Generation during December 11, 2024

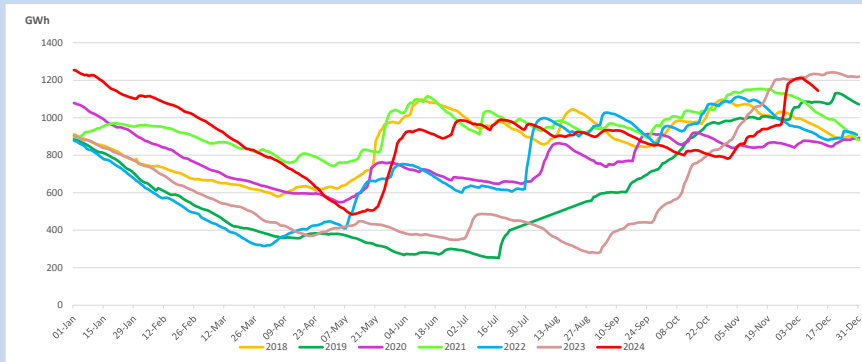
Based on Telemetered Power Stations only



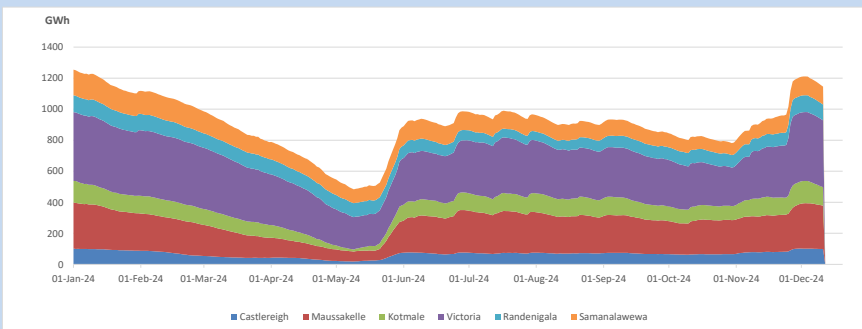
1.14 Major Incidents reported during the day December 11, 2024

- 1) Hambantota - New Polpitiya 220kV cct 02 manually switched off from both ends at 23:26hrs due to the TCS alarm. The cct is yet to be normalized.

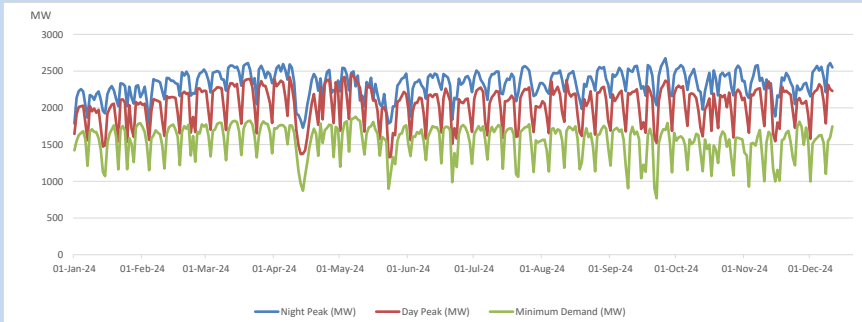
2. Comparison of Total Reservoir Storage Levels with Past Years



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

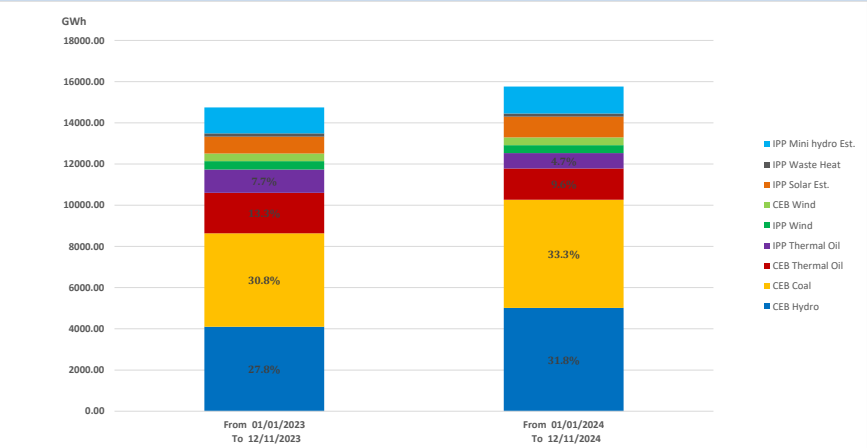


4. Variation of Demand during the current year



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 12/11/2023 14744 GWh
From 01/01/2024 To 12/11/2024 15758 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 Capcity

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