

Generation and Reservoirs Statistics

December 7, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 7, 2024

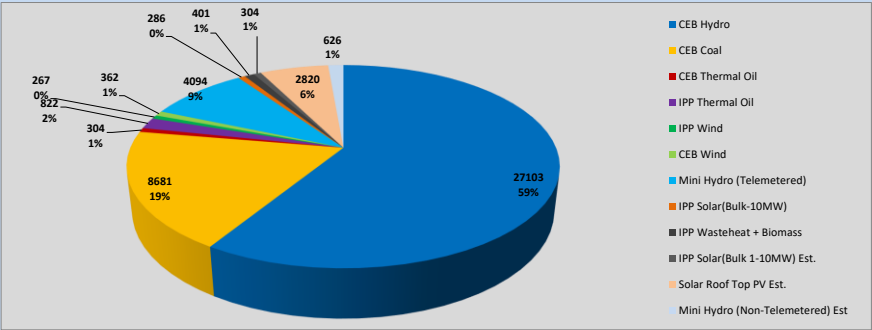


Table 01

	Generation (MWh)
CEB Hydro	27,103
CEB Coal	8,681
CEB Thermal Oil	304
IPP Thermal Oil	822
IPP Wind	267
CEB Wind	362
Mini Hydro (Telemetered)	4,094
IPP Solar (Bulk)	286
IPP Waste heat + Biomass	401
Total Generation (Excluding estimated figures)	42,320
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	626
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	46,070

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	175	55.12%
CEB Coal	61	19.06%
CEB Thermal Oil	3	1.01%
IPP Thermal	6	1.89%
IPP Wind	5	1.55%
CEB Wind	4	1.20%
Mini Hydro *	37	11.62%
IPP Solar *	24	7.49%
IPP Waste heat + BMP	3	1.06%
Total	318	

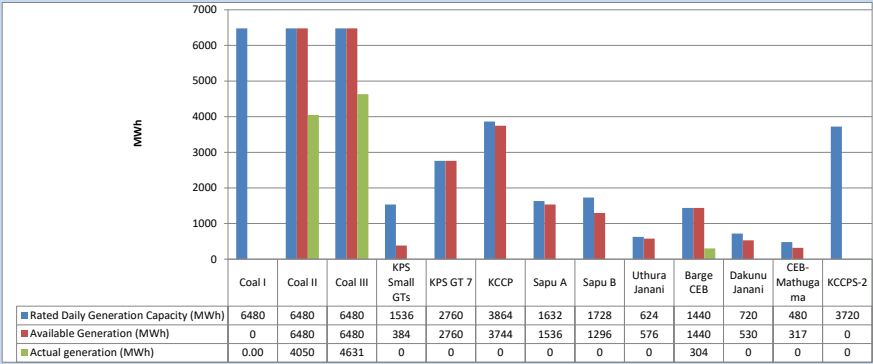
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,913	31.55%
CEB Coal	5,211	33.46%
CEB Thermal Oil	1,515	9.73%
IPP Thermal	741	4.76%
IPP Wind	388	2.49%
CEB Wind	370	2.37%
Mini Hydro *	1,292	8.29%
IPP Solar *	996	6.39%
IPP Waste heat	149	0.96%
Total	15,576	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 7, 2024

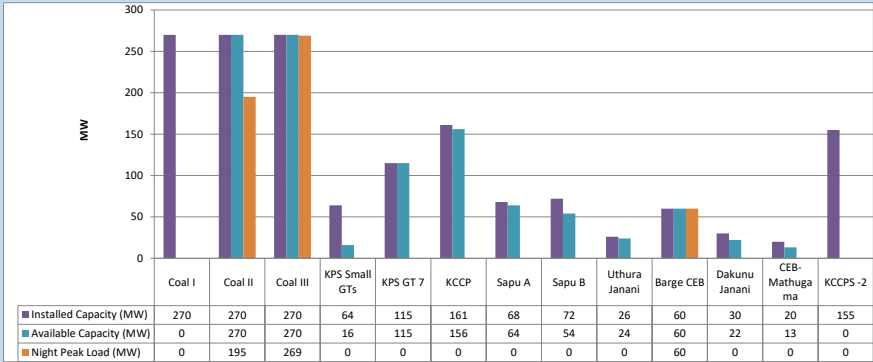


Available Generation is estimated based on plant availability at 6.00am on

December 8, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 7, 2024

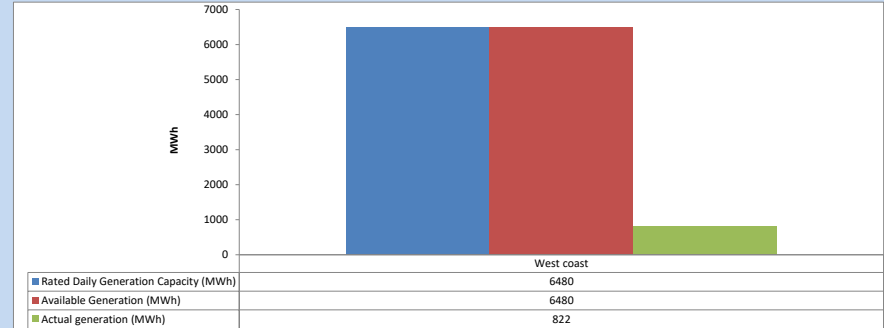


Plant availability is recorded at 6.00 am on

December 8, 2024

1.4 IPP owned Thermal Plant Dispatch

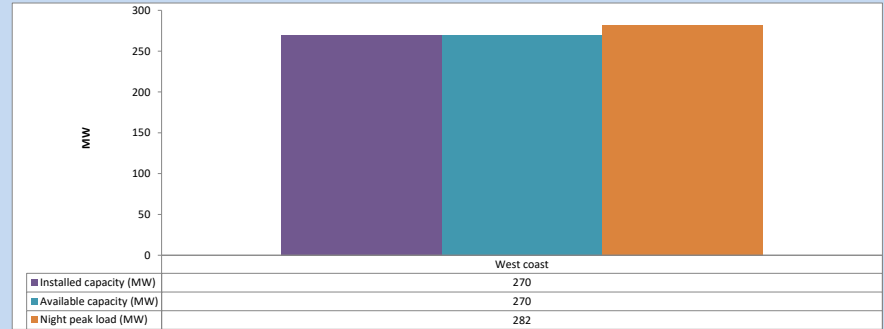
December 7, 2024



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

December 8, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

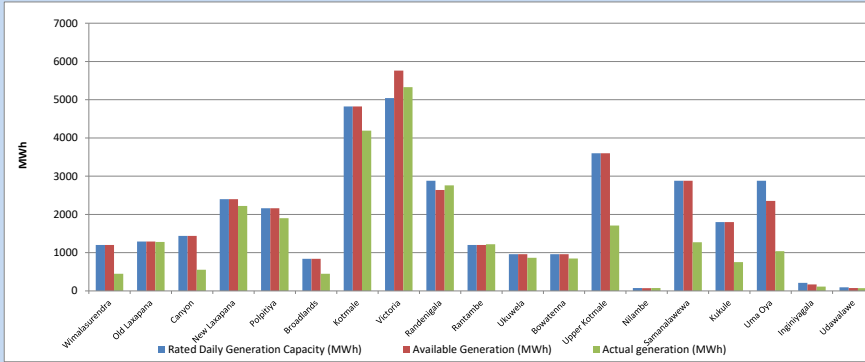


Plant availability is recorded at 6.00 am on

December 8, 2024

1.6 Major Hydro Plant Dispatch

December 7, 2024

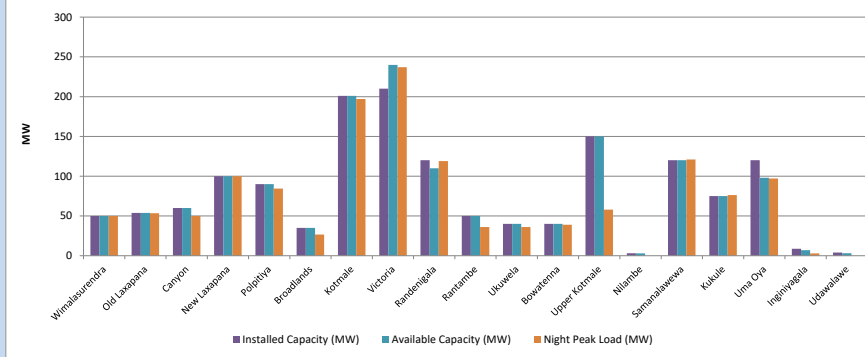


Available Generation is estimated based on plant availability at 6.00am on

December 8, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 7, 2024



Plant availability is recorded at 6.00 am on

December 8, 2024

1.8 Summary of Major Plant performance

December 7, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	450
Old Laxapana	54	54	54	1,282
Canyon	60	60	50	553
New Laxapana	100	100	100	2,223
Polpitiya	90	90	84	1,900
Broadlands	35	35	27	450
Kotmale	201	201	197	4,190
Victoria	210	240	237	5,327
Randenigala	120	110	119	2,761
Rantambe	50	50	36	1,219
Ukuwela	40	40	36	867
Bowatenna	40	40	39	846
Upper Kotmale	150	150	58	1,711
Nilambe	3	3	0	75
Samanalawewa	120	120	121	1,274
Kukule	75	75	76	752
Uma Oya	120	98	97	1,040
Inginigagala	9	7	3	112
Udawalawe	4	3	0	70
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	195	4,050
Puttalam Coal III	270	270	269	4,631
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	0	0
Barge CEB	60	60	60	304
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	282	822
Sobadhanavi	220	212	0	0
Total	3,602	2,860	2,402	42,319

Note-

Plant availability is the availability recorded at 6 am on

December 8, 2024

1.9 Contribution to the Night Peak in MW

December 7, 2024

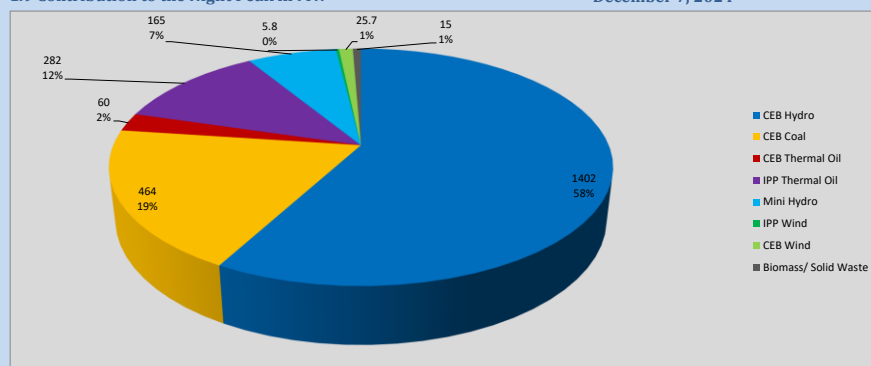


Table 05

CEB Hydro	1402	MW
CEB Coal	464	MW
CEB Thermal Oil	60	MW
IPP Thermal Oil	282	MW
Mini Hydro (Telemetered)	165	MW
IPP Wind	5.8	MW
CEB Wind	25.7	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

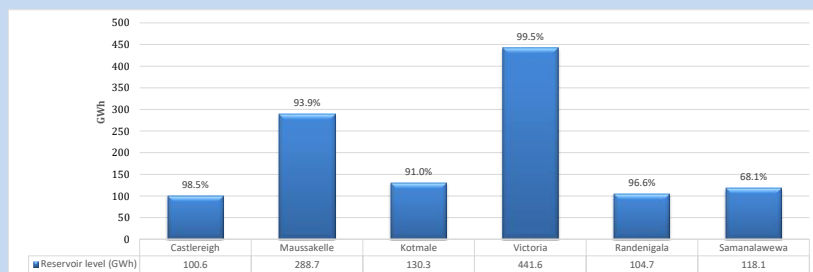
Table 06

Night Peak*	2,420	MW
Day Peak Maximum Demand	2,088	MW
Day Peak Minimum Demand	1,522	MW
Off Peak Minimum Demand	1,419	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 8, 2024



Total Reservoir Level
% of Total capacity

1184 GWh
92.6%

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

December 7, 2024

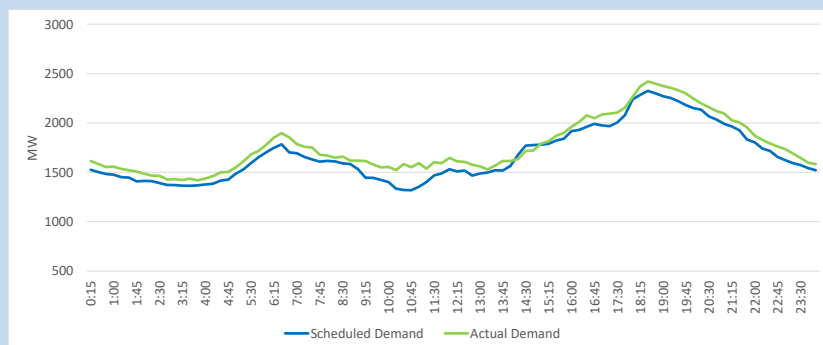
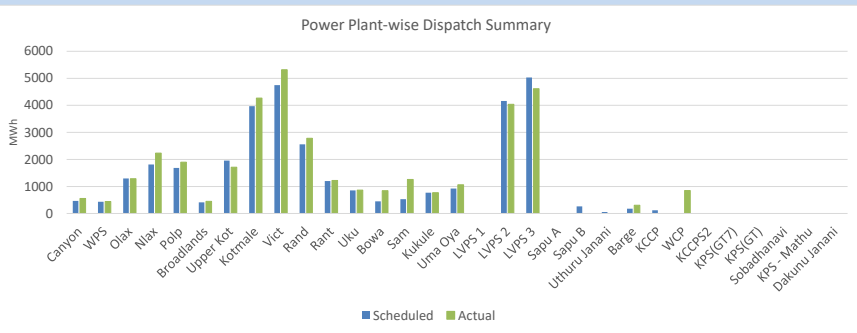


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	24,062	27,103	3,041
CEB Coal	9,194	8,681	(513)
CEB Thermal Oil	611	304	(307)
IPP Thermal Oil	-	822	822
NCRE (excluding non telemetered power plants)	6,361	5,410	(951)
Total	40,228	42,320	2,092

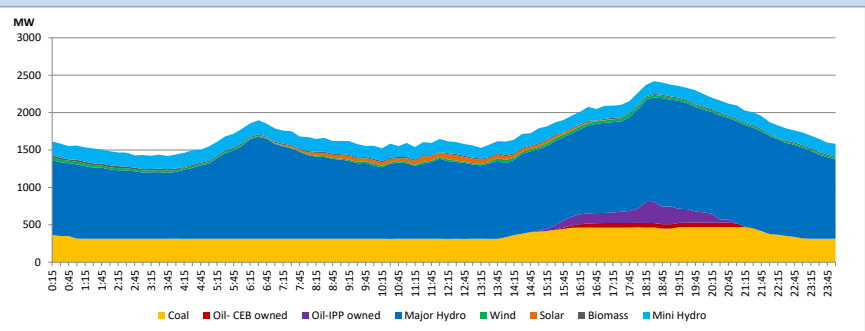
1.12 Power Plant-wise Dispatch Summary

December 7, 2024



1.13 Daily Load Curve

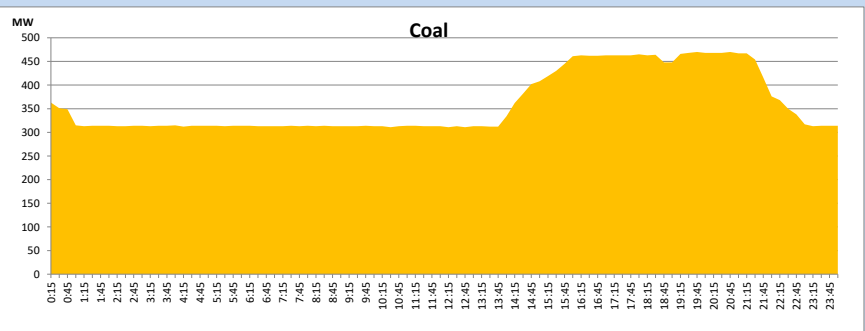
December 7, 2024



Solar and wind data is based on Telemetered Power Stations only

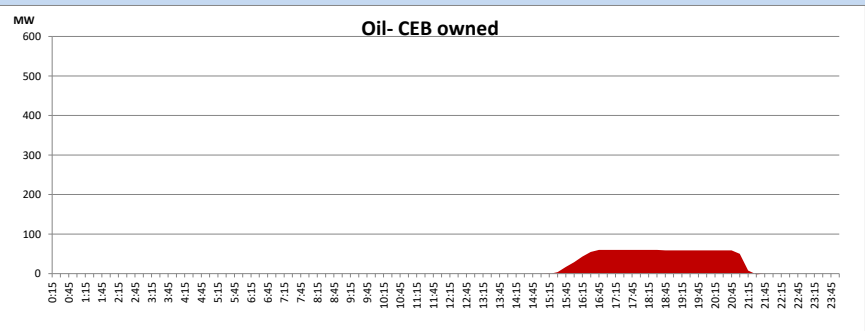
Coal Generation during

December 7, 2024



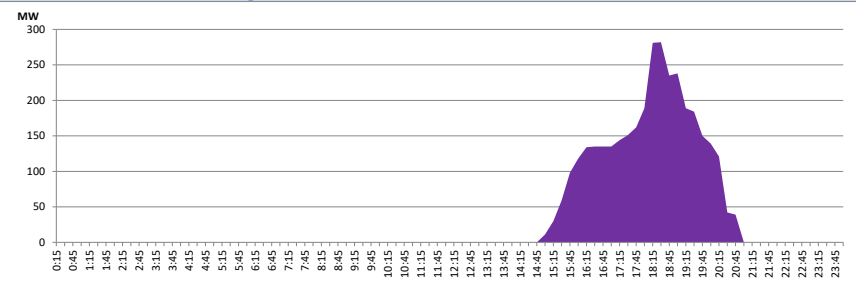
CEB Oil Plant Generation during

December 7, 2024



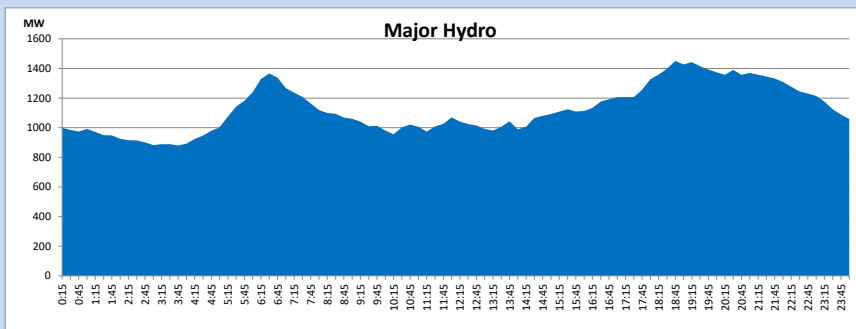
IPP Oil Plant Generation during

December 7, 2024



Major Hydro Generation during

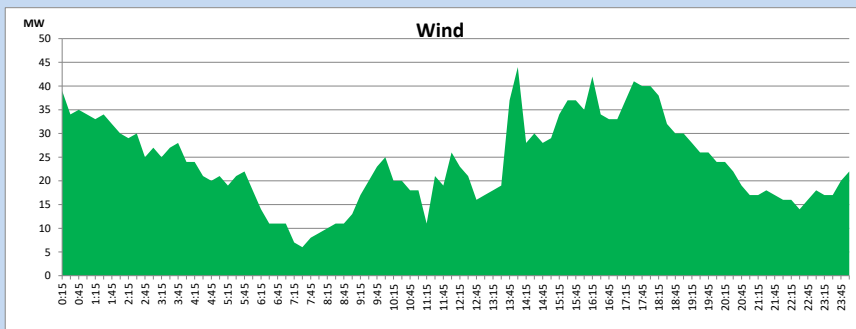
December 7, 2024



Wind Generation during

December 7, 2024

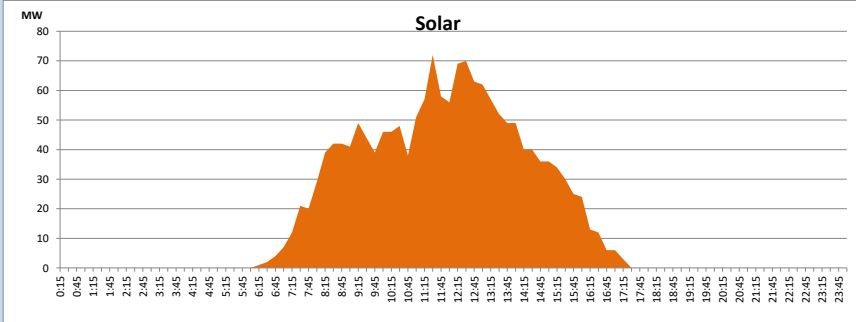
Based on Telemetered Power Stations only



Solar Generation during

December 7, 2024

Based on Telemetered Power Stations only

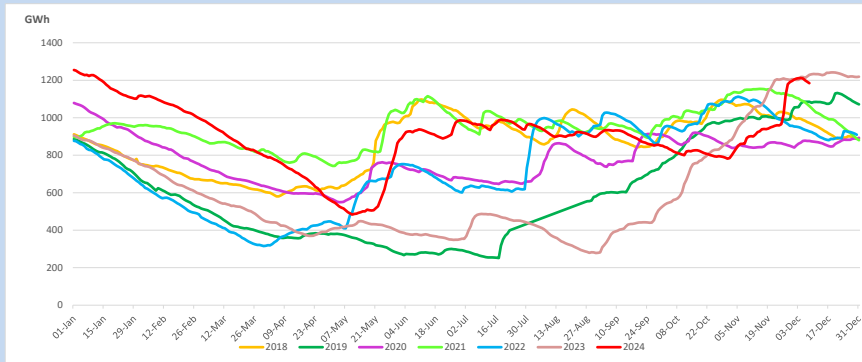


1.14 Major Incidents reported during the day

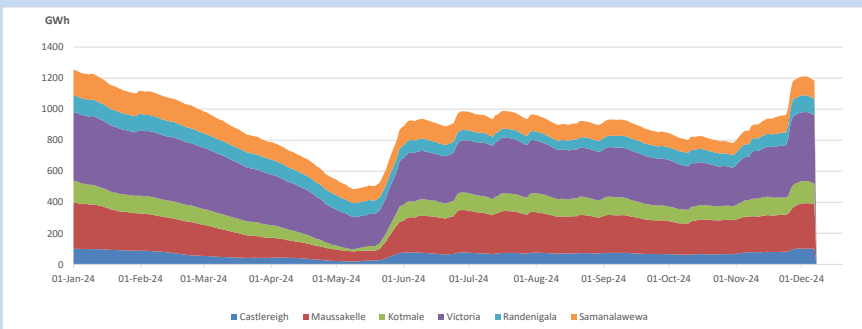
December 7, 2024

1) Nil.

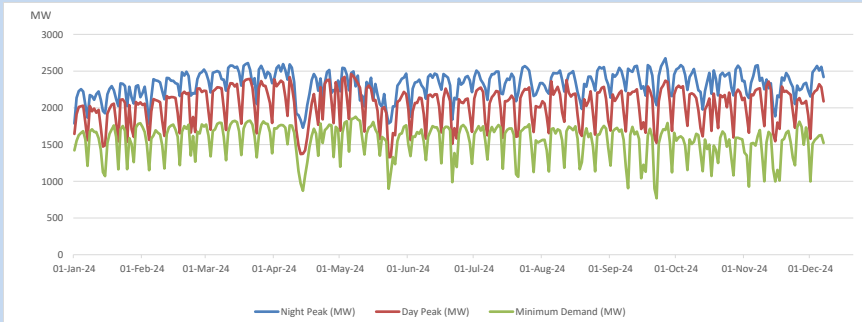
2. Comparison of Total Reservoir Storage Levels with Past Years



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

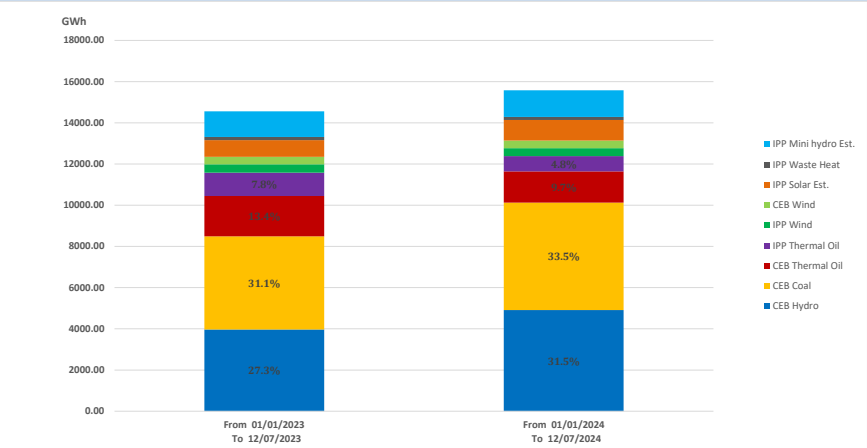


4. Variation of Demand during the current year



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 12/07/2023 14556 GWh
From 01/01/2024 To 12/07/2024 15576 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