

Generation and Reservoirs Statistics

December 27, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 27, 2024

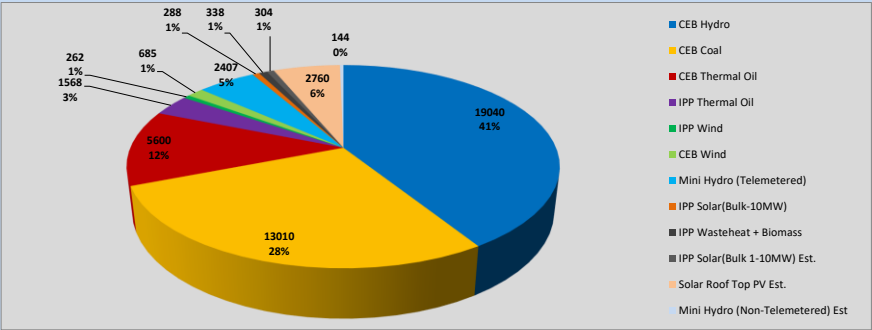


Table 01

	Generation (MWh)
CEB Hydro	19,040
CEB Coal	13,010
CEB Thermal Oil	5,600
IPP Thermal Oil	1,568
IPP Wind	262
CEB Wind	685
Mini Hydro (Telemetered)	2,407
IPP Solar (Bulk)	288
IPP Waste heat + Biomass	338
Total Generation (Excluding estimated figures)	43,198
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	144
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	46,406

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	631	51.61%
CEB Coal	283	23.13%
CEB Thermal Oil	34	2.76%
IPP Thermal	25	2.04%
IPP Wind	13	1.05%
CEB Wind	14	1.16%
Mini Hydro *	122	9.99%
IPP Solar *	91	7.46%
IPP Waste heat + BMP	10	0.80%
Total	1,223	

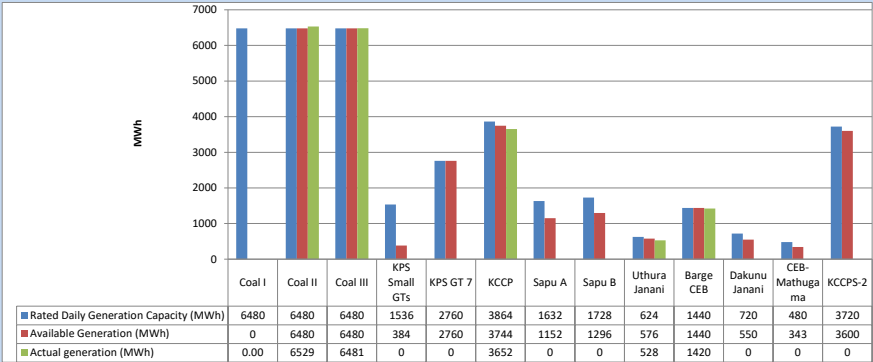
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,369	32.58%
CEB Coal	5,433	32.97%
CEB Thermal Oil	1,546	9.38%
IPP Thermal	760	4.61%
IPP Wind	396	2.41%
CEB Wind	380	2.31%
Mini Hydro *	1,377	8.35%
IPP Solar *	1,063	6.45%
IPP Waste heat	156	0.94%
Total	16,481	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 27, 2024

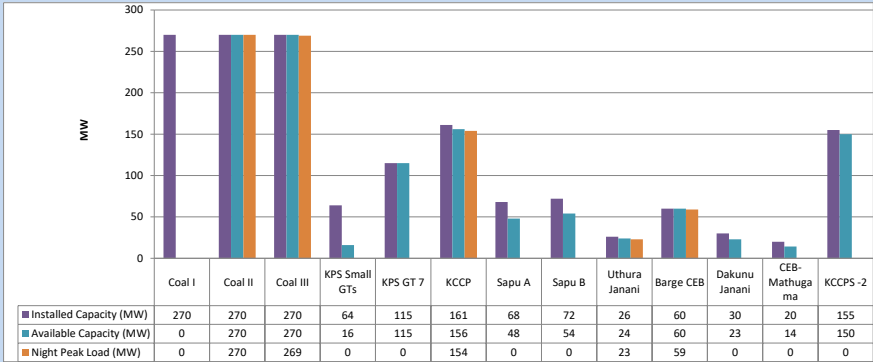


Available Generation is estimated based on plant availability at 6.00am on

December 28, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 27, 2024

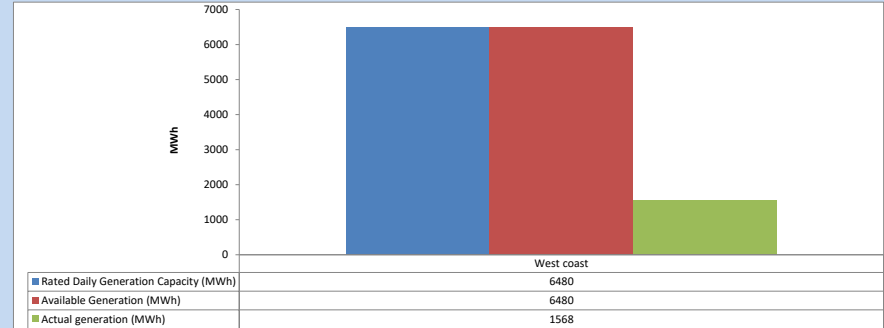


Plant availability is recorded at 6.00 am on

December 28, 2024

1.4 IPP owned Thermal Plant Dispatch

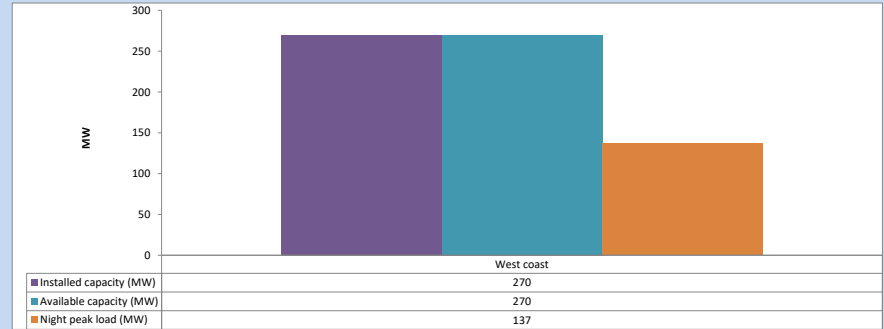
December 27, 2024



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

December 28, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

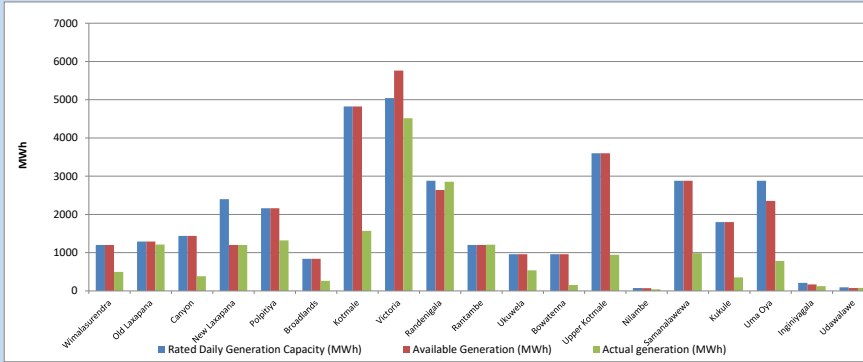


Plant availability is recorded at 6.00 am on

December 28, 2024

1.6 Major Hydro Plant Dispatch

December 27, 2024

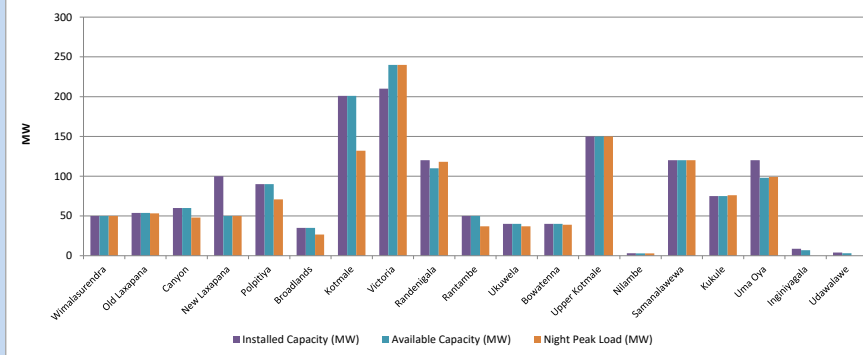


Available Generation is estimated based on plant availability at 6.00am on

December 28, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 27, 2024



Plant availability is recorded at 6.00 am on

December 28, 2024

1.8 Summary of Major Plant performance

December 27, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	497
Old Laxapana	54	54	53	1,211
Canyon	60	60	48	384
New Laxapana	100	50	50	1,201
Polpitiya	90	90	71	1,320
Broadlands	35	35	27	264
Kotmale	201	201	132	1,570
Victoria	210	240	240	4,516
Randenigala	120	110	118	2,854
Rantambe	50	50	37	1,210
Ukuwela	40	40	37	540
Bowatenna	40	40	39	155
Upper Kotmale	150	150	150	947
Nilambe	3	3	3	42
Samanalawewa	120	120	120	987
Kukule	75	75	76	354
Uma Oya	120	98	99	785
Inginigala	9	7	0	125
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,529
Puttalam Coal III	270	270	269	6,481
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	154	3,652
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	23	528
Barge CEB	60	60	59	1,420
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS-2	155	150	0	0
West Coast	270	270	137	1,568
Sobadhanavi	220	212	0	0
Total	3,602	2,946	2,460	43,199

Note-

Plant availability is the availability recorded at 6 am on

December 28, 2024

1.9 Contribution to the Night Peak in MW

December 27, 2024

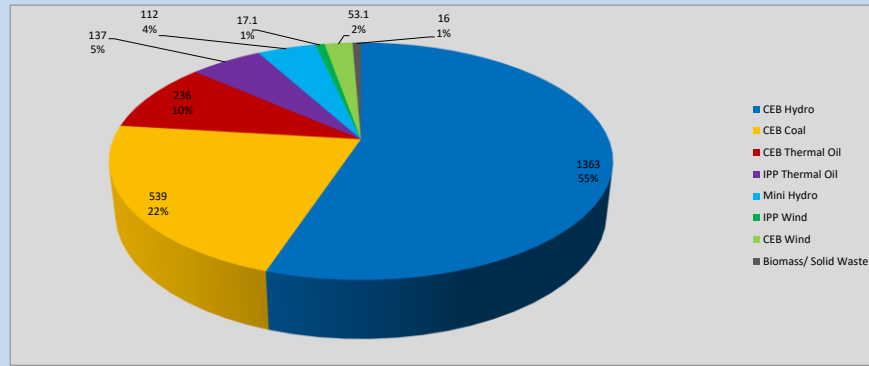


Table 05

CEB Hydro	1,363	MW
CEB Coal	539	MW
CEB Thermal Oil	236	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	112	MW
IPP Wind	17.1	MW
CEB Wind	53.1	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

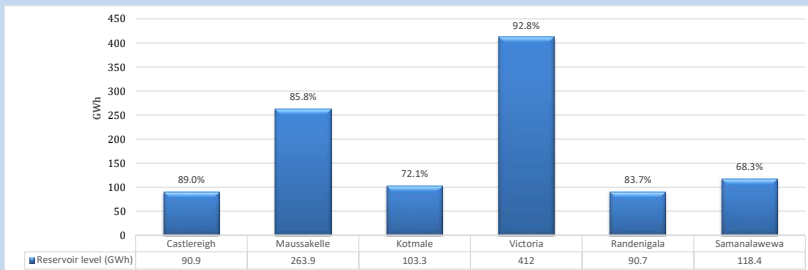
Table 06

Night Peak*	2,473	MW
Day Peak Maximum Demand	2,167	MW
Day Peak Minimum Demand	1,575	MW
Off Peak Minimum Demand	1,383	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 28, 2024



Total Reservoir Level
% of Total capacity

1,079 GWh
84.4%

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

December 27, 2024

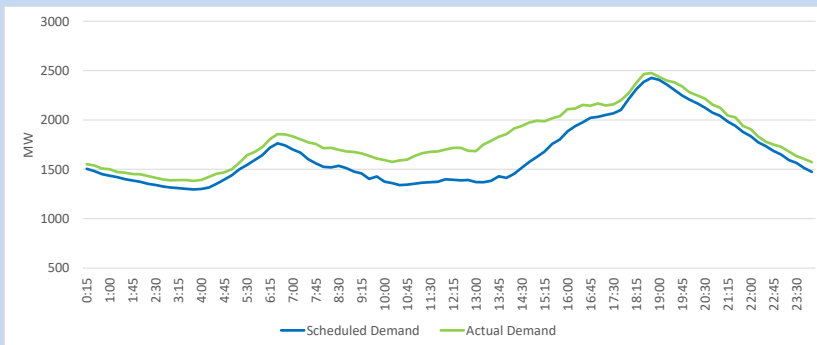
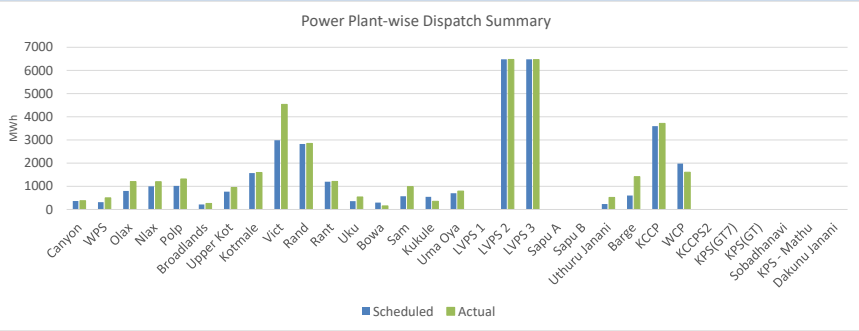


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,539	19,040	3,501
CEB Coal	12,960	13,010	50
CEB Thermal Oil	4,436	5,600	1,164
IPP Thermal Oil	1,982	1,568	(414)
NCRE (excluding non telemetered power plants)	4,632	3,980	(652)
Total	39,549	43,198	3,649

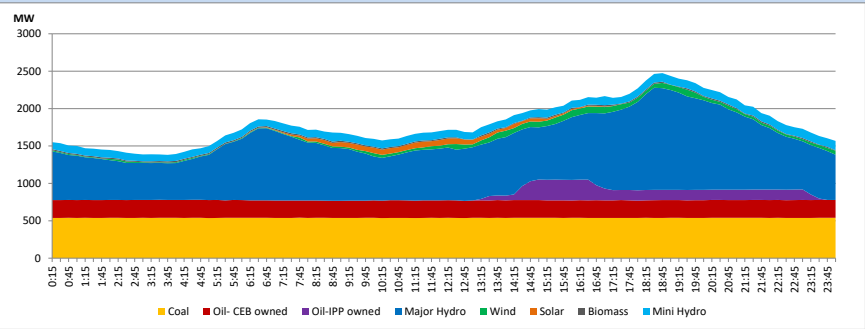
1.12 Power Plant-wise Dispatch Summary

December 27, 2024



1.13 Daily Load Curve

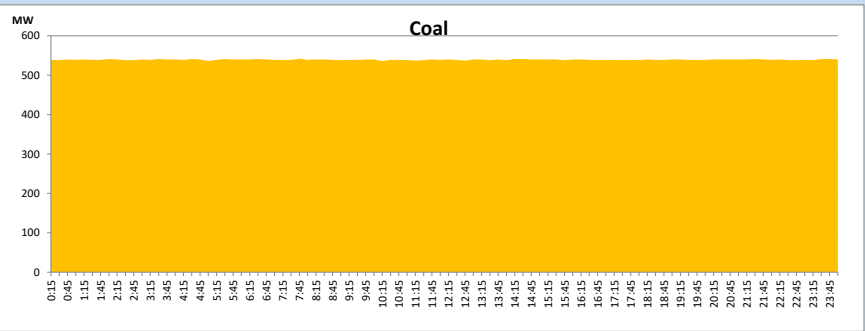
December 27, 2024



Solar and wind data is based on Telemetered Power Stations only

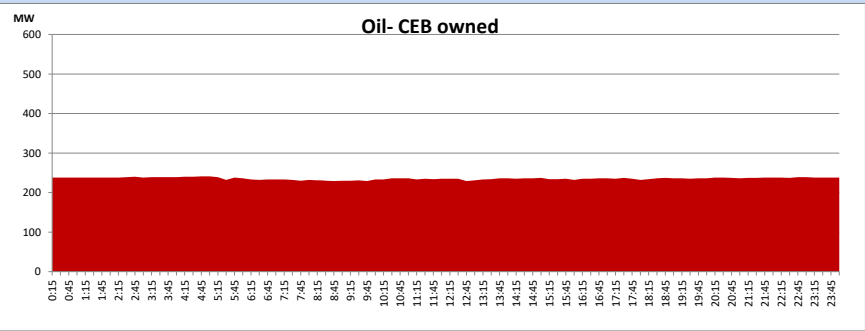
Coal Generation during

December 27, 2024

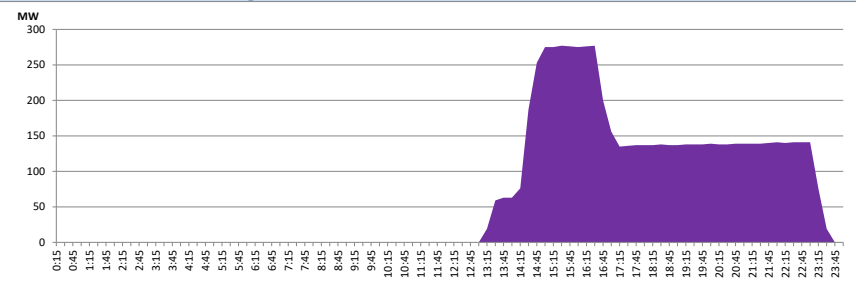


CEB Oil Plant Generation during

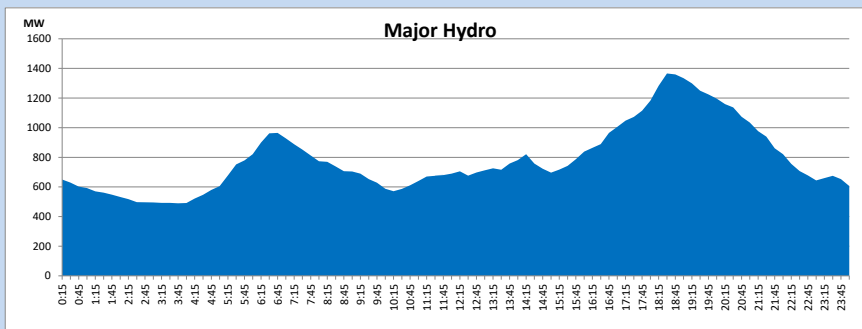
December 27, 2024



IPP Oil Plant Generation during December 27, 2024

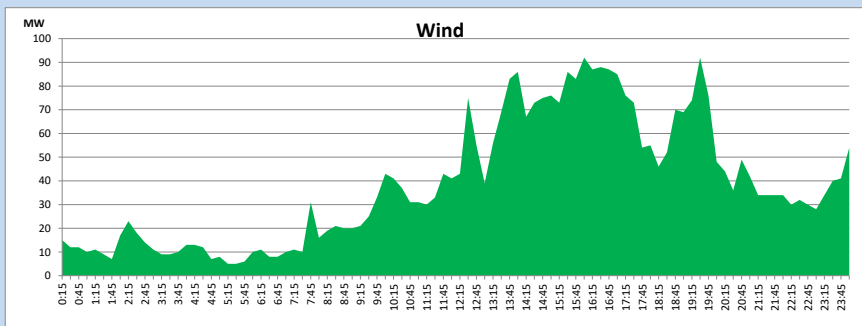


Major Hydro Generation during December 27, 2024



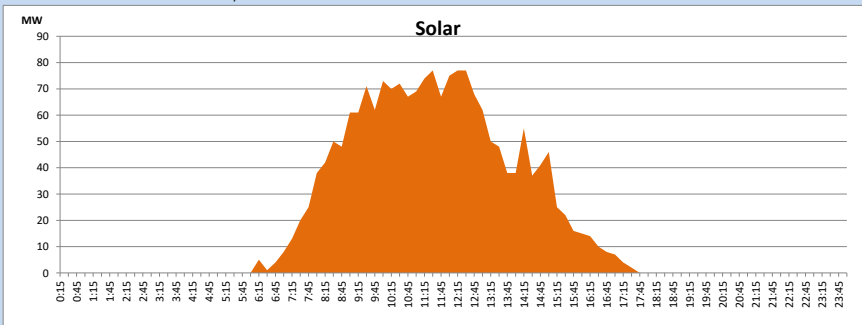
Wind Generation during December 27, 2024

Based on Telemetered Power Stations only



Solar Generation during December 27, 2024

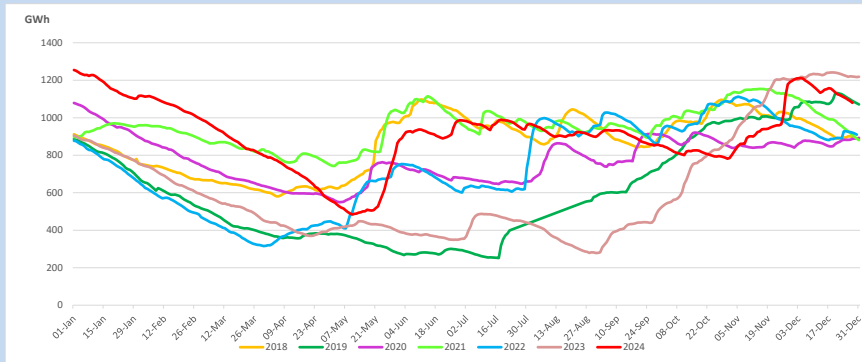
Based on Telemetered Power Stations only



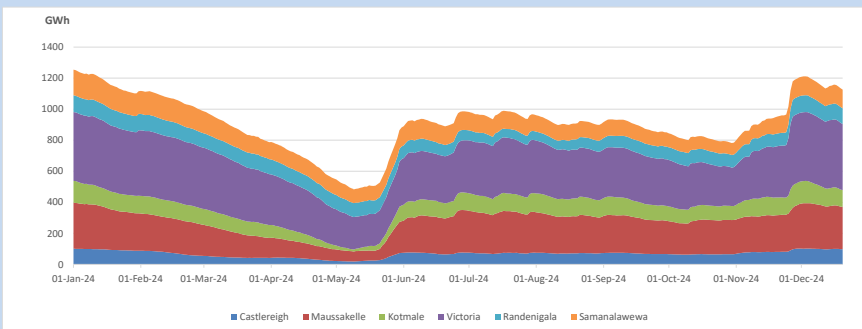
1.14 Major Incidents reported during the day December 27, 2024

- 1) Ukuwela Unit 1 tripped at 11:33hrs due to the penstock guard valve closing alarm, rejecting 18MW from the system. The unit resumed generation at 11:46hrs.
- 2) WCP GT 01 made a forced shutdown at 17:07hrs due to a HRSG system steam leak. WCP GT 01 made available from 23:00hrs.

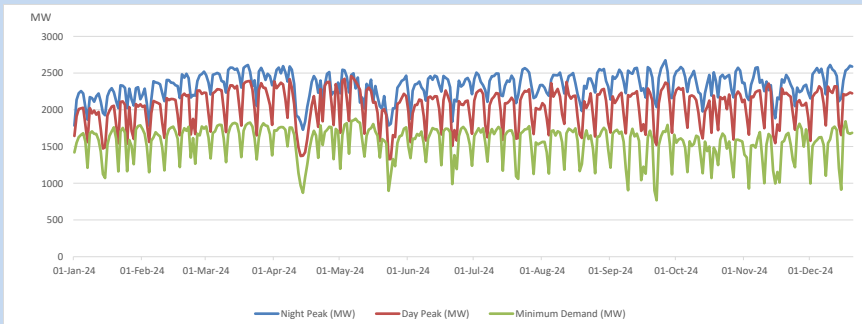
2. Comparison of Total Reservoir Storage Levels with Past Years



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

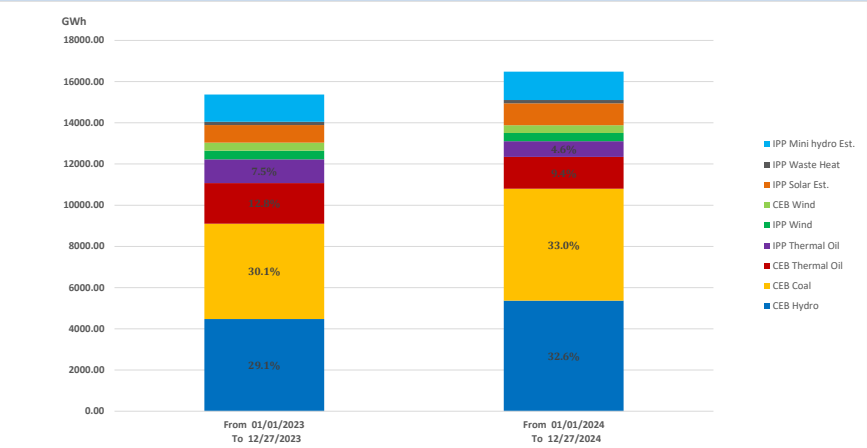


4. Variation of Demand during the current year



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 12/27/2023 15,370 GWh
From 01/01/2024 To 12/27/2024 16,481 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