

Generation and Reservoirs Statistics

December 31, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 31, 2024

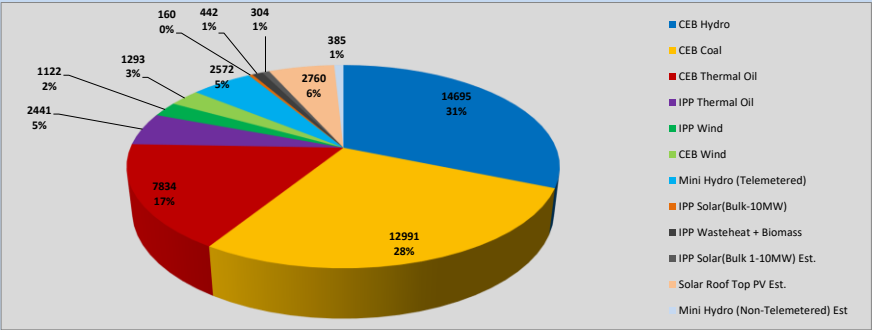


Table 01

	Generation (MWh)
CEB Hydro	14,695
CEB Coal	12,991
CEB Thermal Oil	7,834
IPP Thermal Oil	2,441
IPP Wind	1,122
CEB Wind	1,293
Mini Hydro (Telemetered)	2,572
IPP Solar (Bulk)	160
IPP Waste heat + Biomass	442
Total Generation (Excluding estimated figures)	43,550
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	385
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	46,999

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	693	49.42%
CEB Coal	334	23.84%
CEB Thermal Oil	59	4.24%
IPP Thermal	33	2.32%
IPP Wind	16	1.13%
CEB Wind	18	1.29%
Mini Hydro *	133	9.51%
IPP Solar *	104	7.45%
IPP Waste heat + BMP	11	0.80%
Total	1,402	

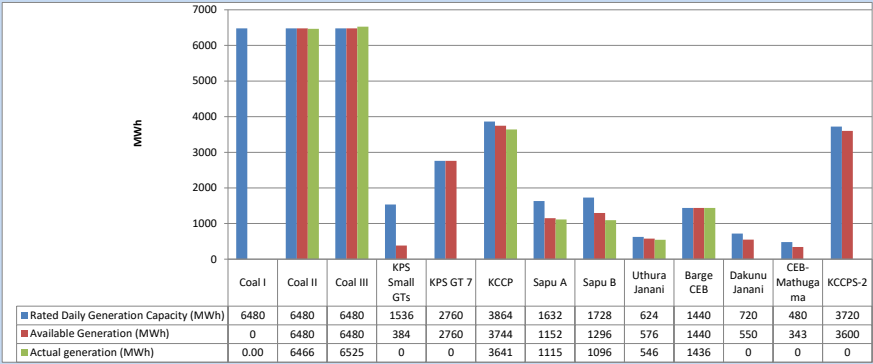
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,431	32.60%
CEB Coal	5,485	32.92%
CEB Thermal Oil	1,572	9.43%
IPP Thermal	768	4.61%
IPP Wind	399	2.40%
CEB Wind	384	2.30%
Mini Hydro *	1,388	8.33%
IPP Solar *	1,077	6.46%
IPP Waste heat	157	0.94%
Total	16,660	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 31, 2024

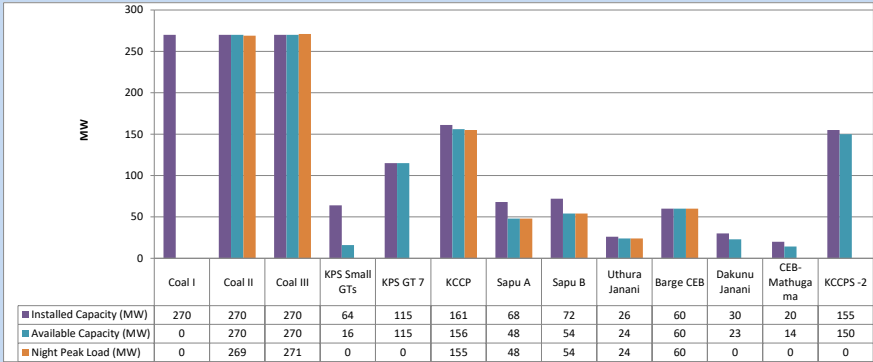


Available Generation is estimated based on plant availability at 6.00am on

January 1, 2025

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 31, 2024

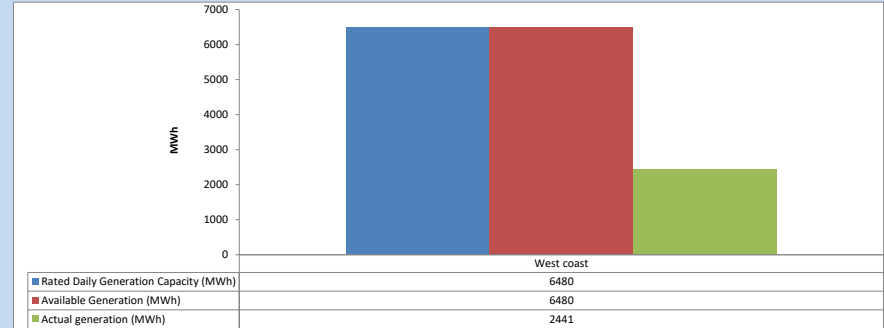


Plant availability is recorded at 6.00 am on

January 1, 2025

1.4 IPP owned Thermal Plant Dispatch

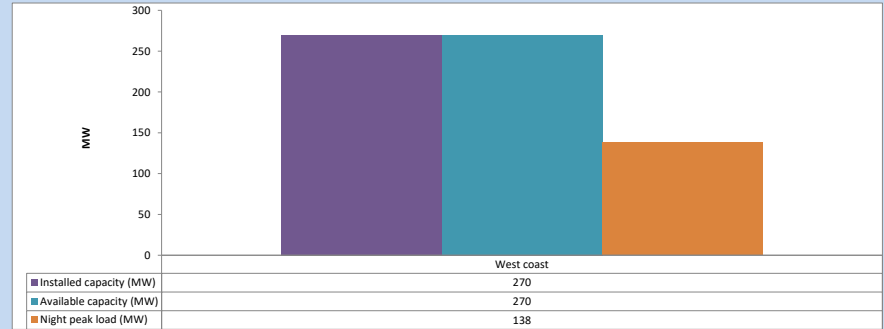
December 31, 2024



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

January 1, 2025

1.5 IPP owned Thermal Plant Loading at the Night Peak

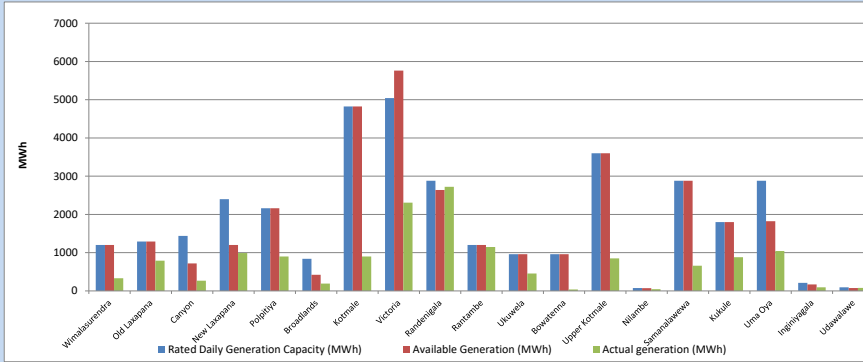


Plant availability is recorded at 6.00 am on

January 1, 2025

1.6 Major Hydro Plant Dispatch

December 31, 2024

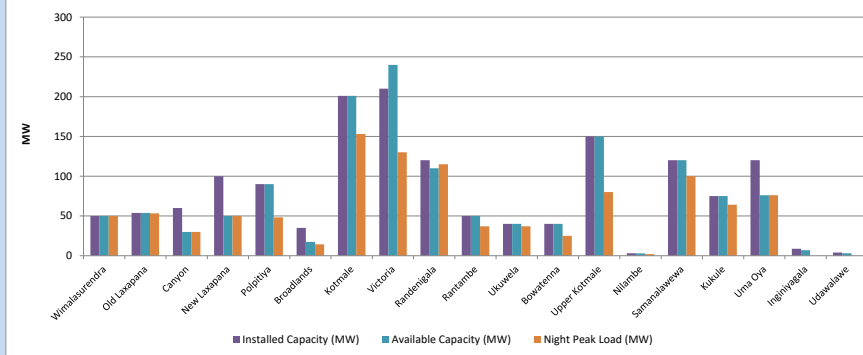


Available Generation is estimated based on plant availability at 6.00am on

January 1, 2025

1.7 Major Hydro Plant Loading at Night Peak

December 31, 2024



Plant availability is recorded at 6.00 am on

January 1, 2025

1.8 Summary of Major Plant performance

December 31, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	331
Old Laxapana	54	54	53	792
Canyon	60	30	30	266
New Laxapana	100	50	50	990
Polpitiya	90	90	48	900
Broadlands	35	18	14	191
Kotmale	201	201	153	900
Victoria	210	240	130	2,309
Randenigala	120	110	115	2,721
Rantambe	50	50	37	1,148
Ukuwela	40	40	37	454
Bowatenna	40	40	25	38
Upper Kotmale	150	150	80	850
Nilambe	3	3	2	47
Samanalawewa	120	120	100	660
Kukule	75	75	64	882
Uma Oya	120	76	76	1,043
Inginigala	9	7	0	93
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,466
Puttalam Coal III	270	270	271	6,525
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	155	3,641
Sapugaskanda A	68	48	48	1,115
Sapugaskanda B	72	54	54	1,096
Uthura Janani	26	24	24	546
Barge CEB	60	60	60	1,436
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS-2	155	150	0	0
West Coast	270	270	138	2,441
Sobadhanavi	220	212	0	0
Total	3,602	2,877	2,330	43,549

Note-

Plant availability is the availability recorded at 6 am on

January 1, 2025

1.9 Contribution to the Night Peak in MW

December 31, 2024

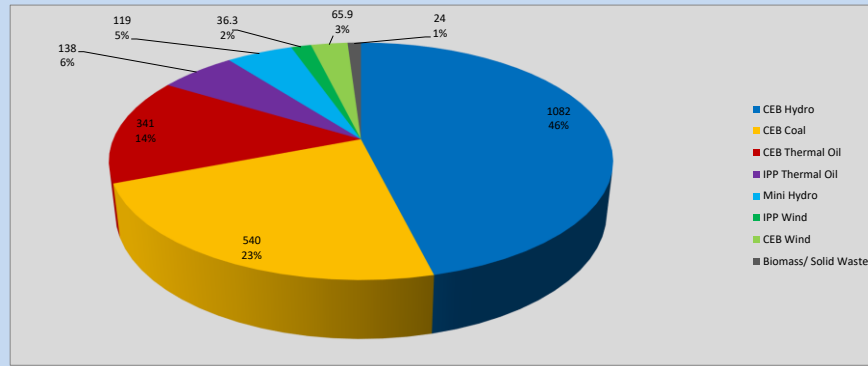


Table 05

CEB Hydro	1,082	MW
CEB Coal	540	MW
CEB Thermal Oil	341	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	119	MW
IPP Wind	36.3	MW
CEB Wind	65.9	MW
Biomass/ Solid Waste	24	MW

Recorded Peak Demand Data

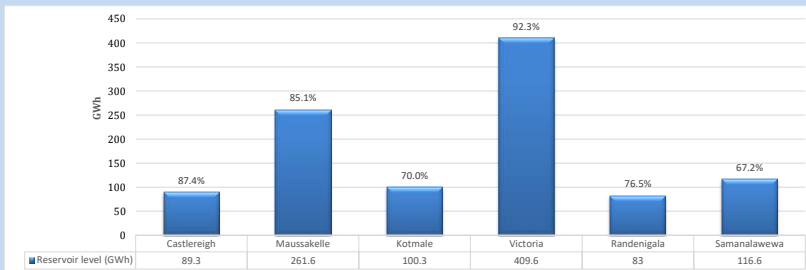
Table 06

Night Peak*	2,347	MW
Day Peak Maximum Demand	2,118	MW
Day Peak Minimum Demand	1,729	MW
Off Peak Minimum Demand	1,364	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 January 1, 2025



Total Reservoir Level
% of Total capacity

1,060 GWh
82.9%

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

December 31, 2024

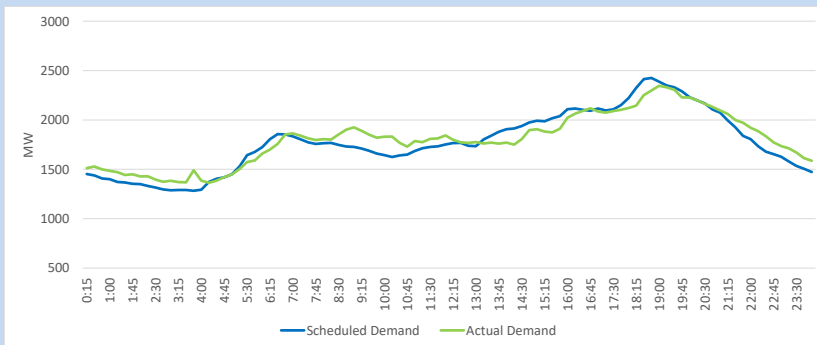
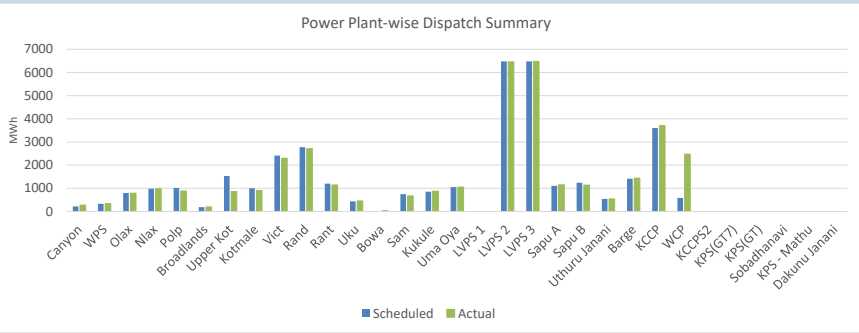


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,568	14,695	(873)
CEB Coal	12,960	12,991	31
CEB Thermal Oil	7,896	7,834	(62)
IPP Thermal Oil	585	2,441	1,856
NCRE (excluding non telemetered power plants)	5,602	5,589	(13)
Total	42,611	43,550	939

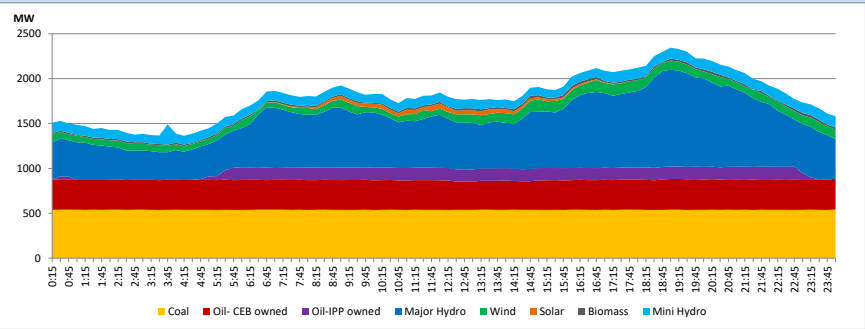
1.12 Power Plant-wise Dispatch Summary

December 31, 2024



1.13 Daily Load Curve

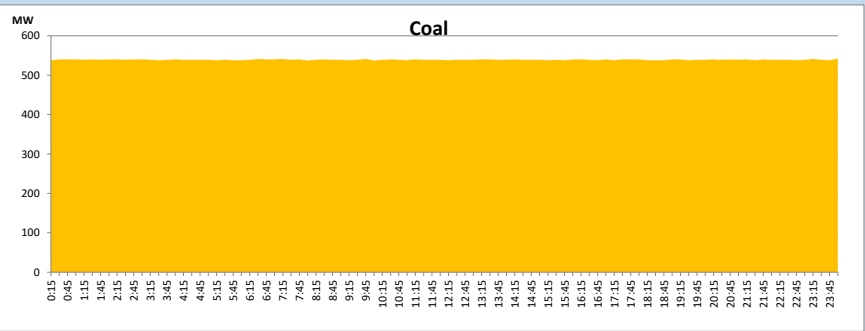
December 31, 2024



Solar and wind data is based on Telemetered Power Stations only

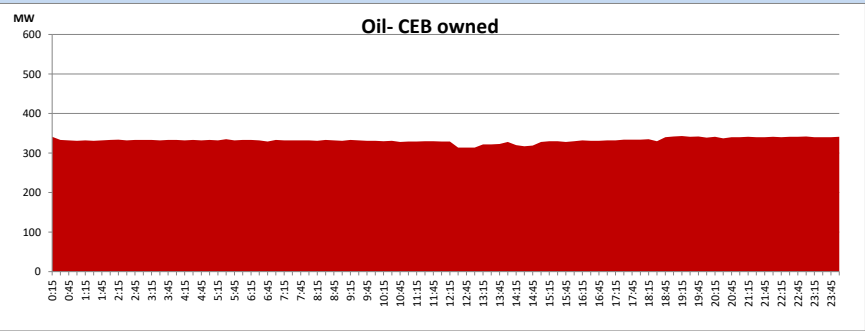
Coal Generation during

December 31, 2024

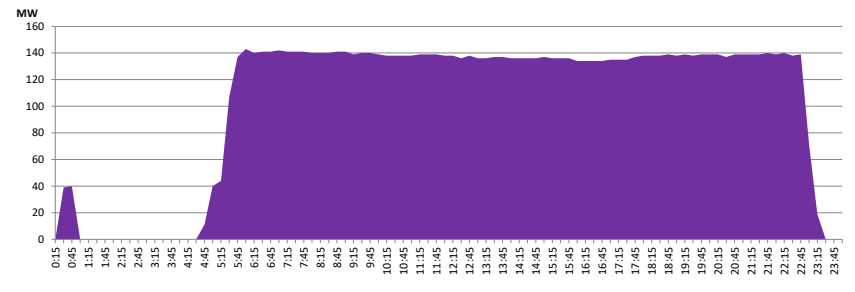


CEB Oil Plant Generation during

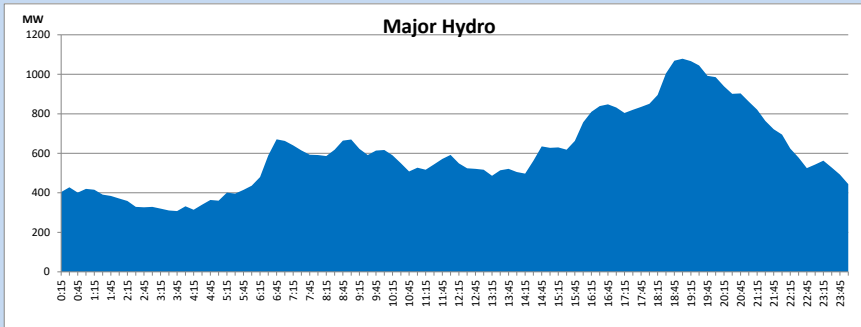
December 31, 2024



IPP Oil Plant Generation during December 31, 2024

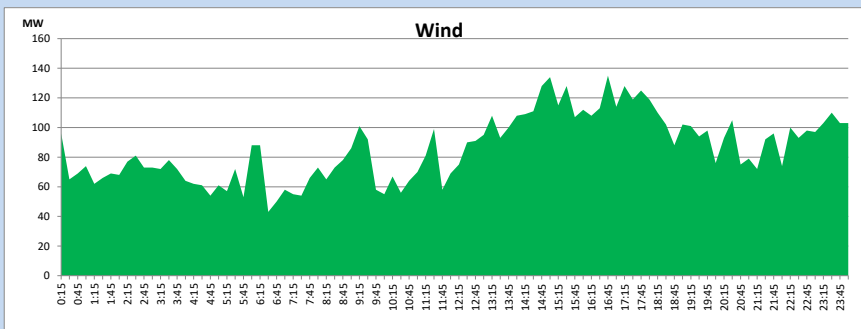


Major Hydro Generation during December 31, 2024



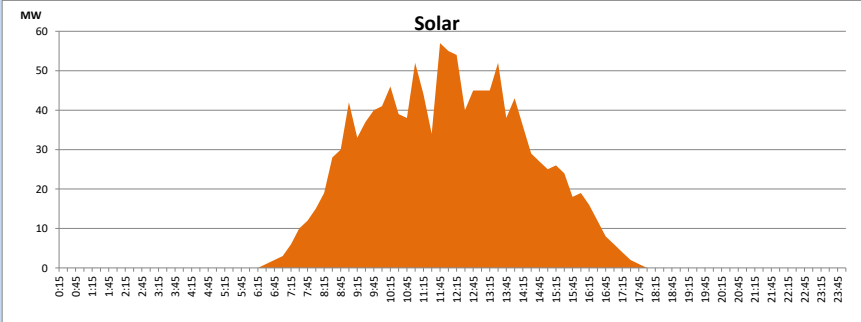
Wind Generation during December 31, 2024

Based on Telemetered Power Stations only



Solar Generation during December 31, 2024

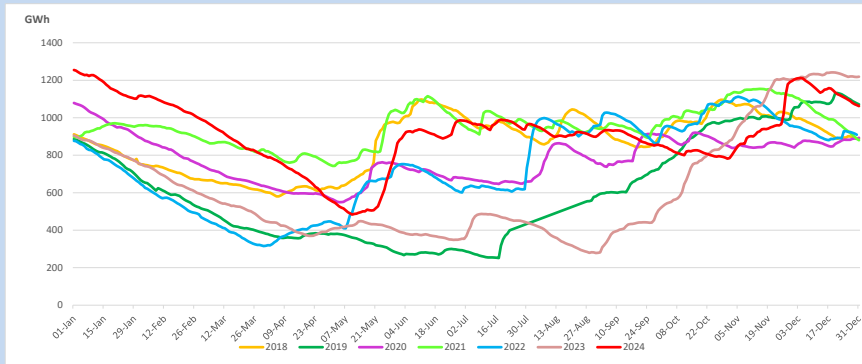
Based on Telemetered Power Stations only



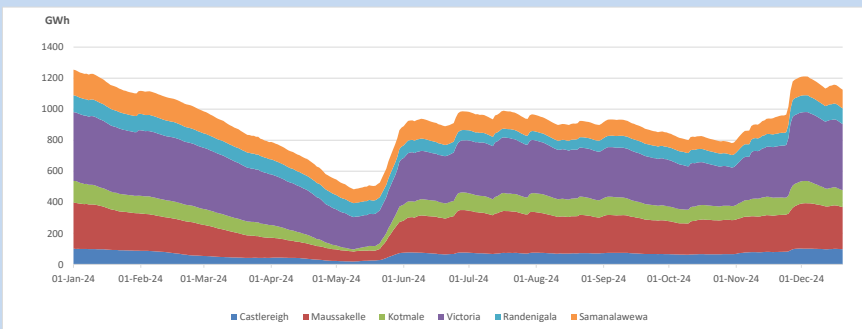
1.14 Major Incidents reported during the day December 31, 2024

- 1) Ukuwela unit 01 made a forced shutdown at 10:55hrs due to a turbine head cover water leak. The unit was resumed generation at 17:08hrs.
- 2) Kerawalapitiya - New Kerawalapitiya 220kV cct 01, which tripped on 30.11.2024 was normalized at 16:10hrs.

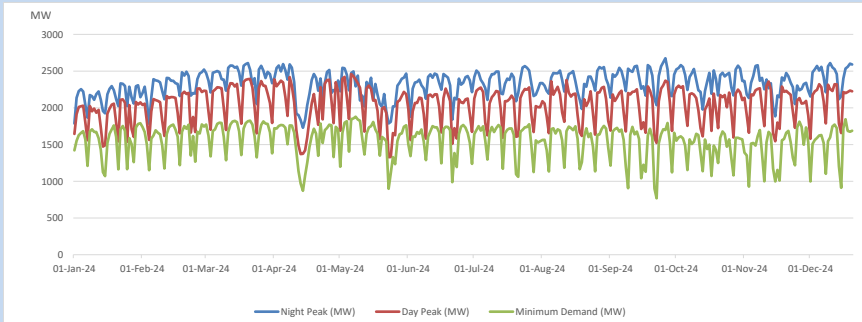
2. Comparison of Total Reservoir Storage Levels with Past Years



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

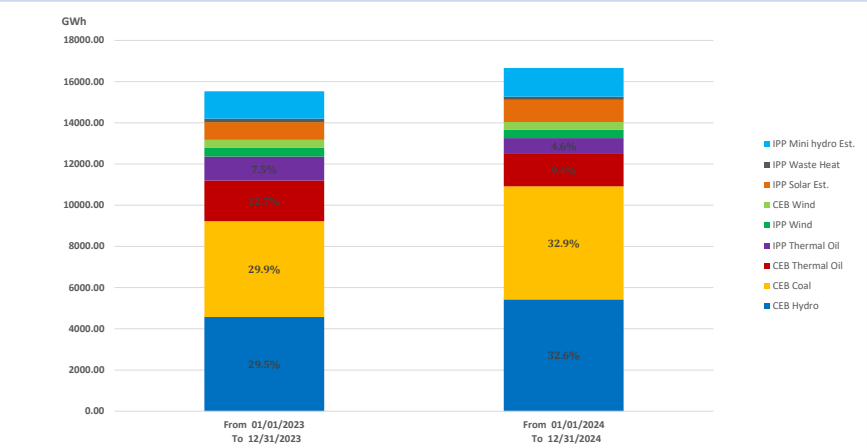


4. Variation of Demand during the current year



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 12/31/2023 15,532 GWh
From 01/01/2024 To 12/31/2024 16,660 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	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