

Generation and Reservoirs Statistics

December 21, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 21, 2024

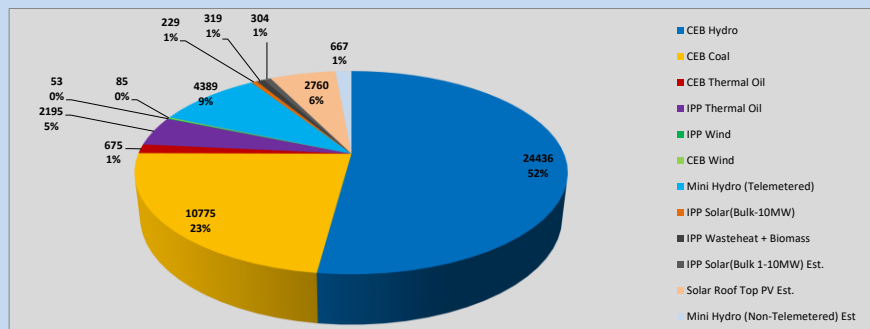


Table 01

	Generation (MWh)
CEB Hydro	24,436
CEB Coal	10,775
CEB Thermal Oil	675
IPP Thermal Oil	2,195
IPP Wind	53
CEB Wind	85
Mini Hydro (Telemetered)	4,389
IPP Solar (Bulk)	229
IPP Waste heat + Biomass	319
Total Generation (Excluding estimated figures)	43,156
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	667
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	46,887

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	519	53.83%
CEB Coal	208	21.61%
CEB Thermal Oil	12	1.22%
IPP Thermal	21	2.19%
IPP Wind	12	1.24%
CEB Wind	13	1.32%
Mini Hydro *	101	10.45%
IPP Solar *	71	7.33%
IPP Waste heat + BMP	8	0.82%
Total	964	

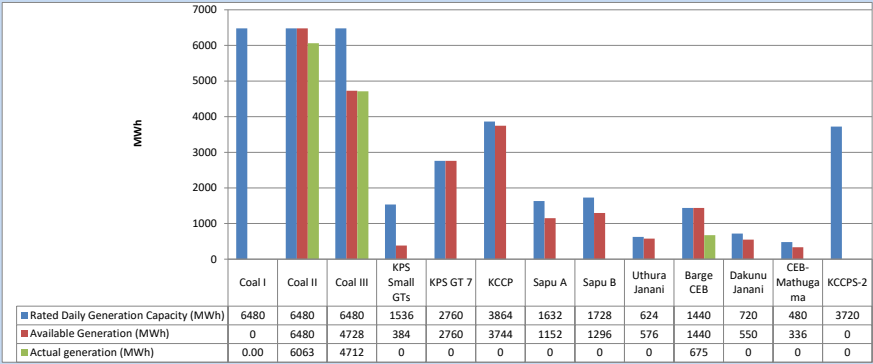
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,257	32.41%
CEB Coal	5,359	33.03%
CEB Thermal Oil	1,524	9.39%
IPP Thermal	757	4.66%
IPP Wind	395	2.44%
CEB Wind	378	2.33%
Mini Hydro *	1,355	8.35%
IPP Solar *	1,043	6.43%
IPP Waste heat	154	0.95%
Total	16,222	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 21, 2024

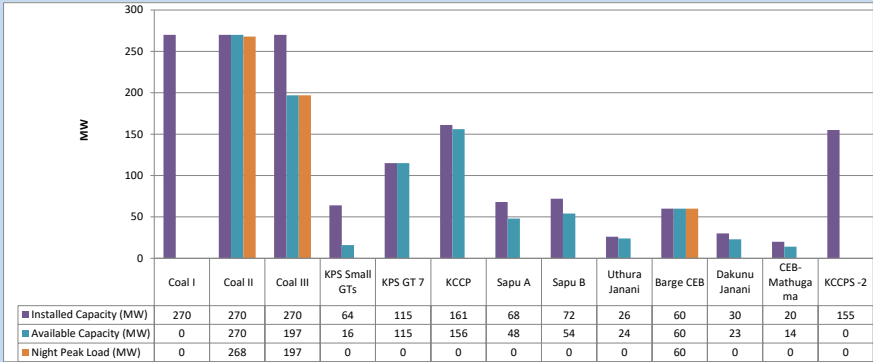


Available Generation is estimated based on plant availability at 6.00am on

December 22, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 21, 2024

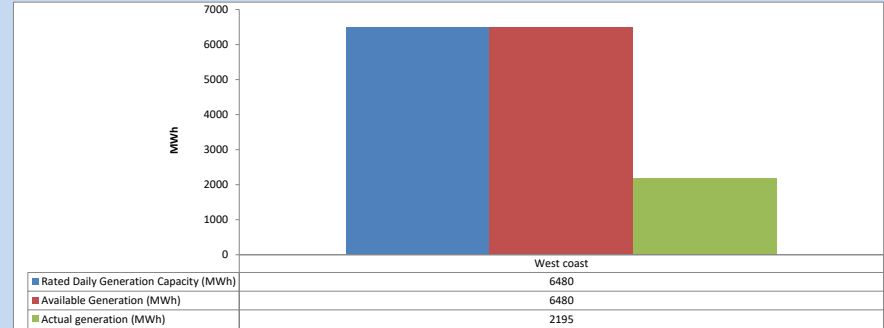


Plant availability is recorded at 6.00 am on

December 22, 2024

1.4 IPP owned Thermal Plant Dispatch

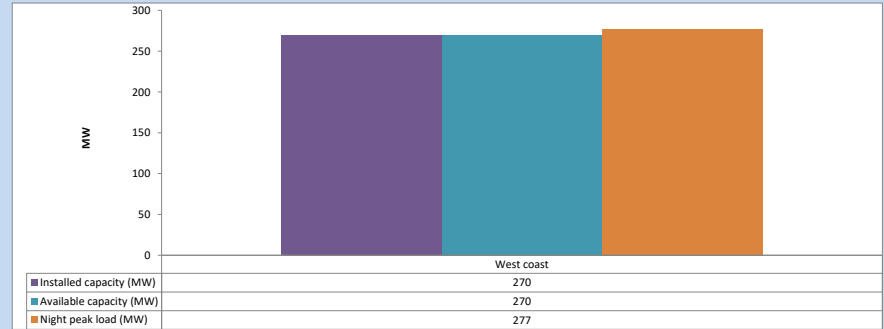
December 21, 2024



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

December 22, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

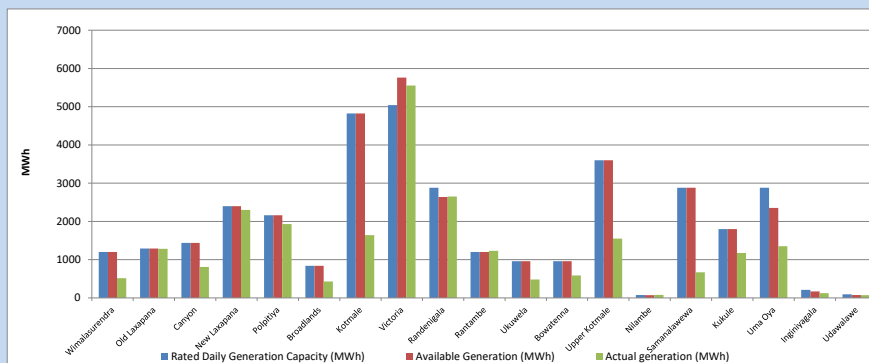


Plant availability is recorded at 6.00 am on

December 22, 2024

1.6 Major Hydro Plant Dispatch

December 21, 2024

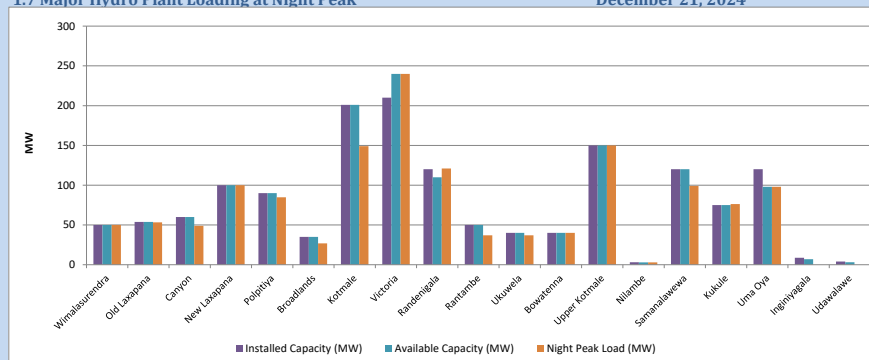


Available Generation is estimated based on plant availability at 6.00am on

December 22, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 21, 2024



Plant availability is recorded at 6.00 am on

December 22, 2024

1.8 Summary of Major Plant performance

December 21, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	515
Old Laxapana	54	54	53	1,285
Canyon	60	60	49	811
New Laxapana	100	100	100	2,299
Polpitiya	90	90	85	1,930
Broadlands	35	35	27	428
Kotmale	201	201	149	1,640
Victoria	210	240	240	5,553
Randenigala	120	110	121	2,651
Rantambe	50	50	37	1,232
Ukuwela	40	40	37	481
Bowatenna	40	40	40	587
Upper Kotmale	150	150	150	1,550
Nilambe	3	3	3	80
Samanalawewa	120	120	99	669
Kukule	75	75	76	1,176
Uma Oya	120	98	98	1,350
Inginigala	9	7	0	126
Udawalawe	4	3	0	73
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	6,063
Puttalam Coal III	270	197	197	4,712
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	0	0
Barge CEB	60	60	60	675
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	277	2,195
Sobadhanavi	220	212	0	0
Total	3,602	2,773	2,457	43,156

Note-

Plant availability is the availability recorded at 6 am on

December 22, 2024

1.9 Contribution to the Night Peak in MW

December 21, 2024

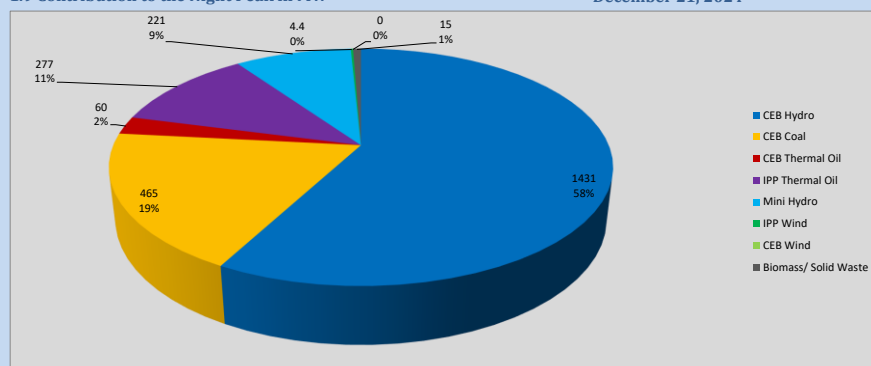


Table 05

CEB Hydro	1,431	MW
CEB Coal	465	MW
CEB Thermal Oil	60	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	221	MW
IPP Wind	4.4	MW
CEB Wind	0	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

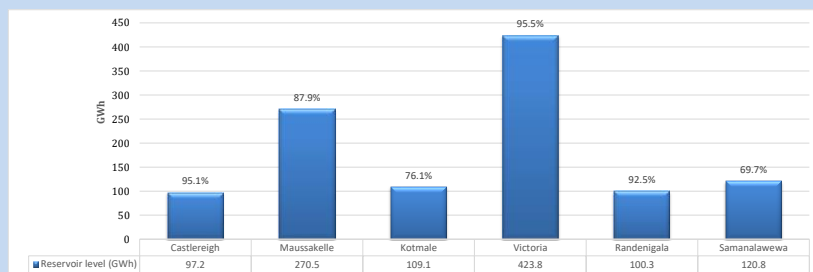
Table 06

Night Peak*	2,474	MW
Day Peak Maximum Demand	2,083	MW
Day Peak Minimum Demand	1,572	MW
Off Peak Minimum Demand	1,448	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 22, 2024



Total Reservoir Level
% of Total capacity

1,122 GWh
87.7%

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

December 21, 2024

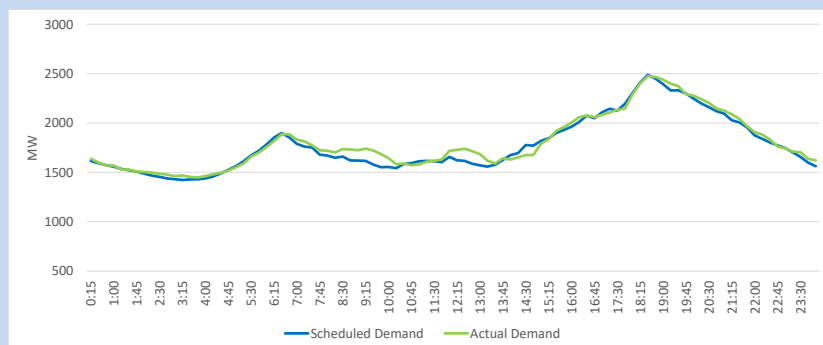
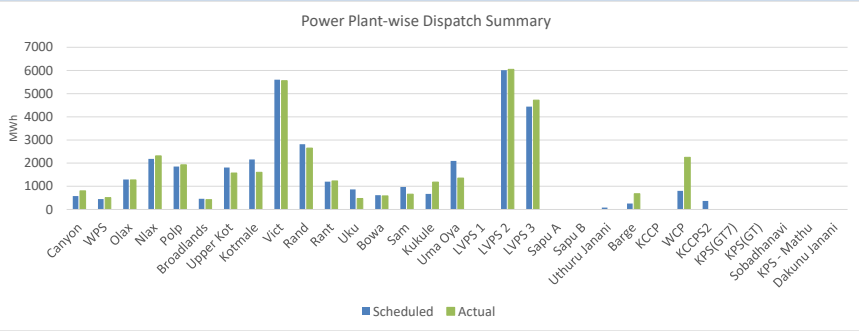


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	25,624	24,436	(1,188)
CEB Coal	10,450	10,775	325
CEB Thermal Oil	721	675	(46)
IPP Thermal Oil	801	2,195	1,394
NCRE (excluding non telemetered power plants)	4,934	5,075	141
Total	42,530	43,156	626

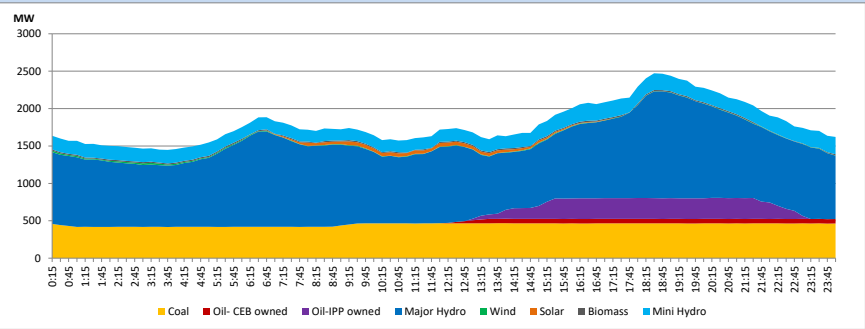
1.12 Power Plant-wise Dispatch Summary

December 21, 2024



1.13 Daily Load Curve

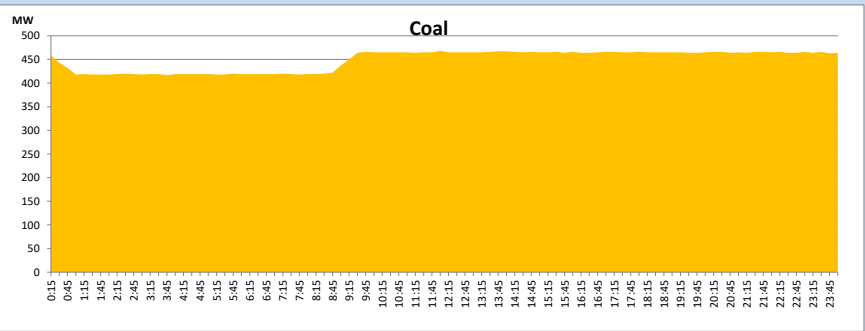
December 21, 2024



Solar and wind data is based on Telemetered Power Stations only

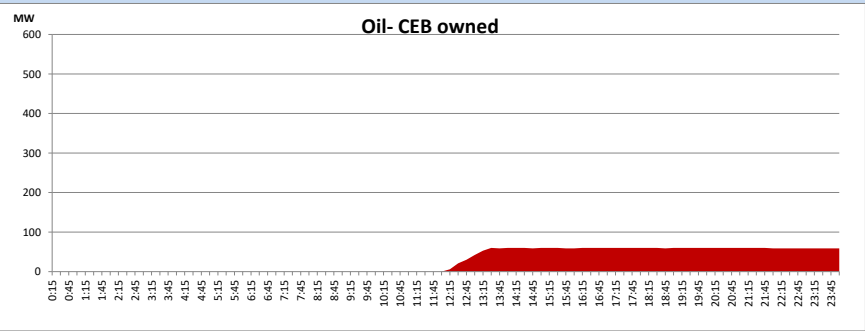
Coal Generation during

December 21, 2024

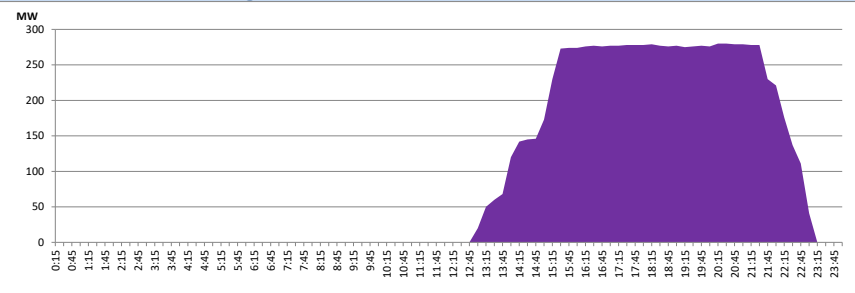


CEB Oil Plant Generation during

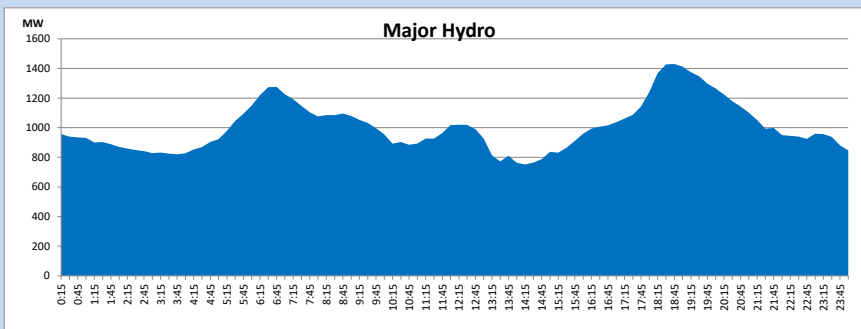
December 21, 2024



IPP Oil Plant Generation during December 21, 2024

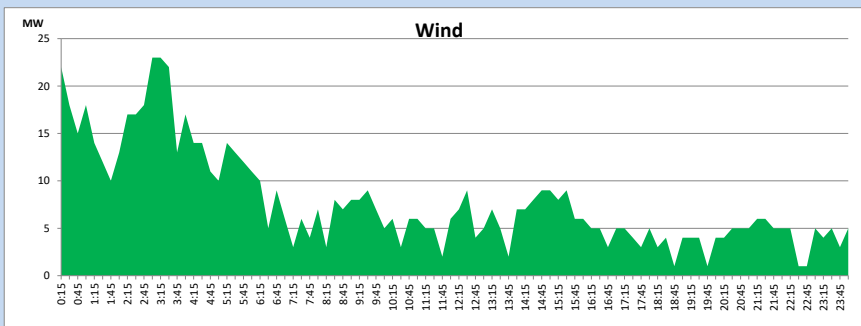


Major Hydro Generation during December 21, 2024



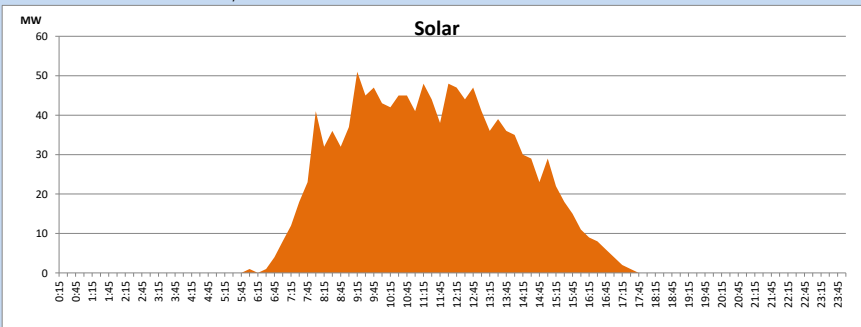
Wind Generation during December 21, 2024

Based on Telemetered Power Stations only



Solar Generation during December 21, 2024

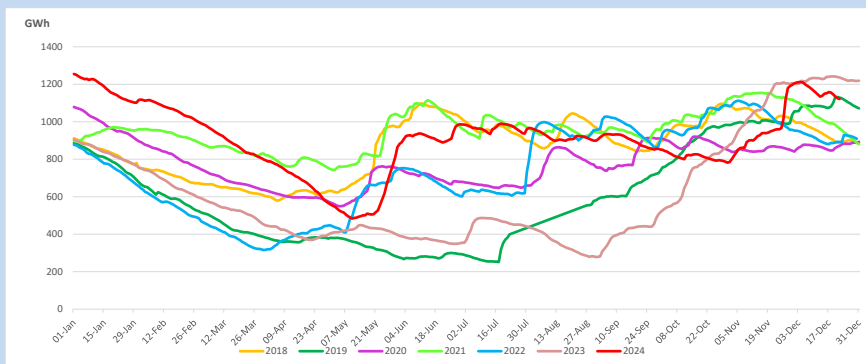
Based on Telemetered Power Stations only



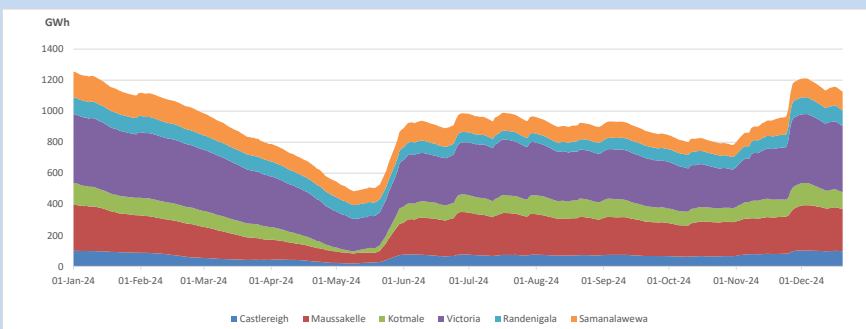
1.14 Major Incidents reported during the day December 21, 2024

- 1) New Anuradhapura - Trincomalee 132kV cct tripped from both ends at 15:05hrs due to the operation of distance protection. The cct was normalized by 15:20hrs.
- 2) Kukule Ganga pond spilling started at 01:50hrs (22.12.2024) and continues to the present hour.

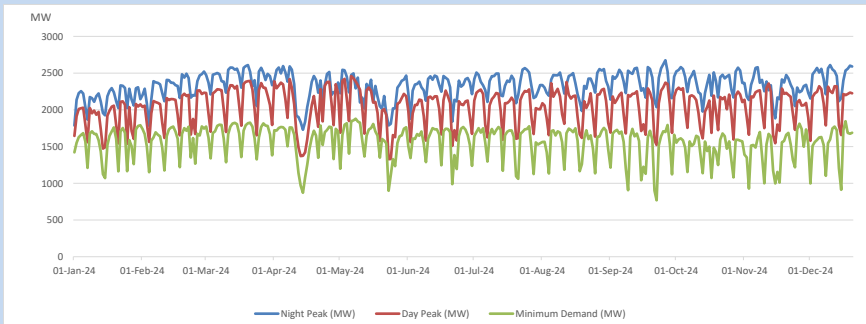
2. Comparison of Total Reservoir Storage Levels with Past Years



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

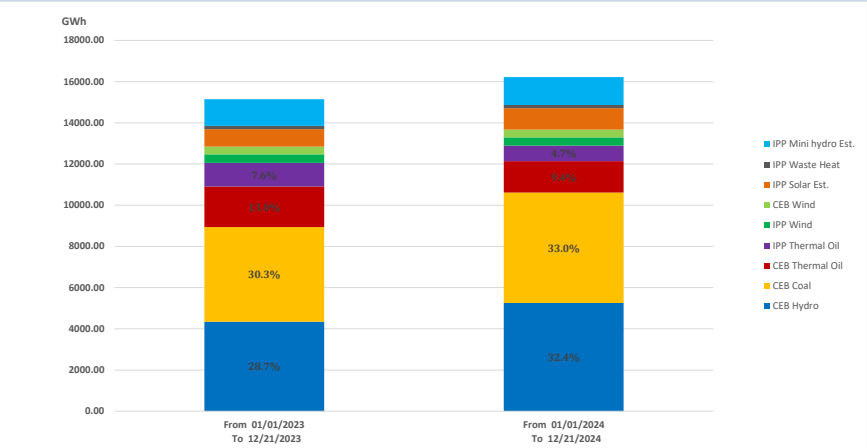


4. Variation of Demand during the current year



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 12/21/2023 15,146 GWh
From 01/01/2024 To 12/21/2024 16,222 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