

Generation and Reservoirs Statistics

December 12, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 12, 2024

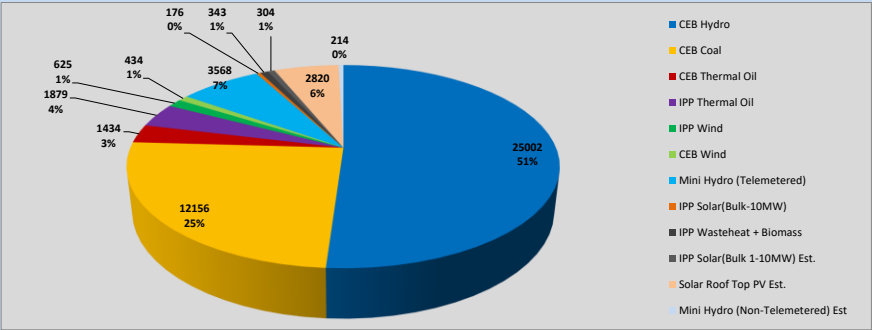


Table 01

	Generation (MWh)
CEB Hydro	25,002
CEB Coal	12,156
CEB Thermal Oil	1,434
IPP Thermal Oil	1,879
IPP Wind	625
CEB Wind	434
Mini Hydro (Telemetered)	3,568
IPP Solar (Bulk)	176
IPP Waste heat + Biomass	343
Total Generation (Excluding estimated figures)	45,617
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	214
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	48,955

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	300	54.70%
CEB Coal	113	20.52%
CEB Thermal Oil	7	1.23%
IPP Thermal	12	2.13%
IPP Wind	8	1.41%
CEB Wind	8	1.38%
Mini Hydro *	57	10.32%
IPP Solar *	41	7.40%
IPP Waste heat + BMP	5	0.90%
Total	549	

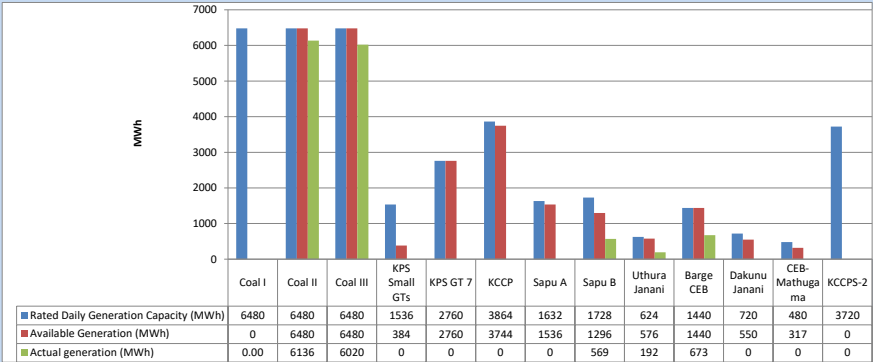
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,039	31.88%
CEB Coal	5,263	33.30%
CEB Thermal Oil	1,519	9.61%
IPP Thermal	747	4.73%
IPP Wind	391	2.47%
CEB Wind	373	2.36%
Mini Hydro *	1,311	8.30%
IPP Solar *	1,013	6.41%
IPP Waste heat	151	0.95%
Total	15,807	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 12, 2024

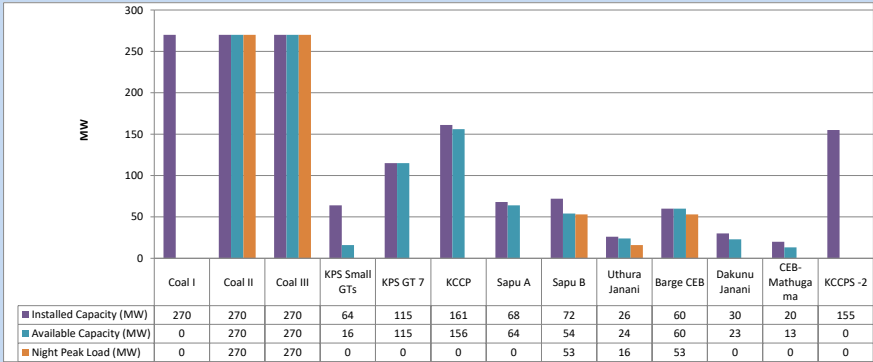


Available Generation is estimated based on plant availability at 6.00am on

December 13, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 12, 2024

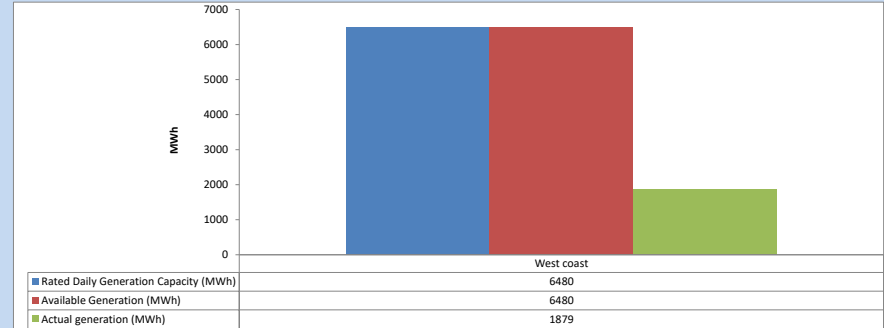


Plant availability is recorded at 6.00 am on

December 13, 2024

1.4 IPP owned Thermal Plant Dispatch

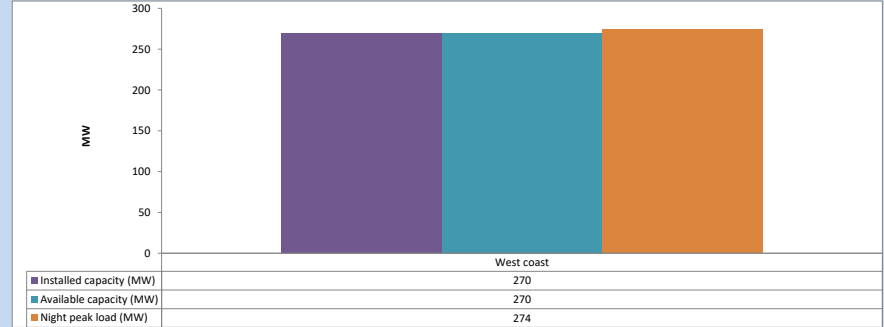
December 12, 2024



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

December 13, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

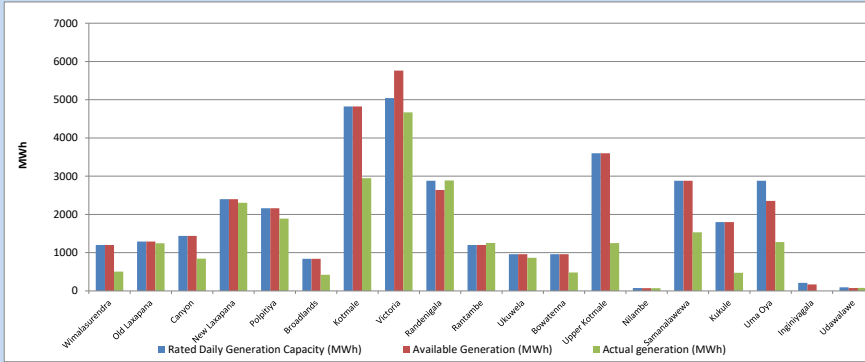


Plant availability is recorded at 6.00 am on

December 13, 2024

1.6 Major Hydro Plant Dispatch

December 12, 2024

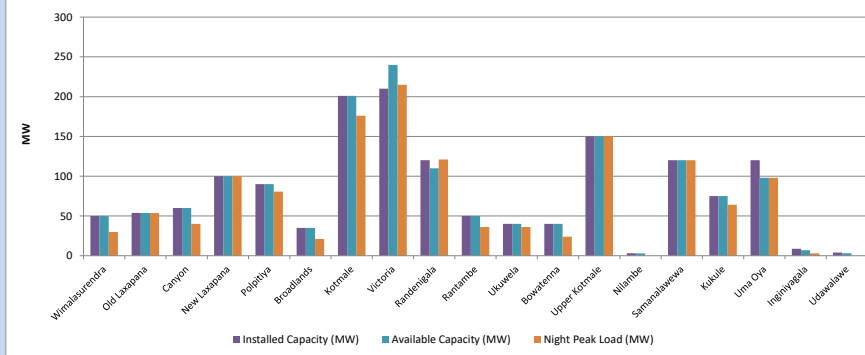


Available Generation is estimated based on plant availability at 6.00am on

December 13, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 12, 2024



Plant availability is recorded at 6.00 am on

December 13, 2024

1.8 Summary of Major Plant performance

December 12, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	506
Old Laxapana	54	54	54	1,246
Canyon	60	60	40	842
New Laxapana	100	100	100	2,306
Polpitiya	90	90	81	1,890
Broadlands	35	35	21	422
Kotmale	201	201	176	2,950
Victoria	210	240	215	4,668
Randenigala	120	110	121	2,888
Rantambe	50	50	36	1,253
Ukuwela	40	40	36	865
Bowatenna	40	40	24	483
Upper Kotmale	150	150	150	1,249
Nilambe	3	3	0	73
Samanalawewa	120	120	120	1,533
Kukule	75	75	64	473
Uma Oya	120	98	98	1,276
Inginigala	9	7	3	0
Udawalawe	4	3	0	78
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,136
Puttalam Coal III	270	270	270	6,020
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	53	569
Uthura Janani	26	24	16	192
Barge CEB	60	60	53	673
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	274	1,879
Sobadhanavi	220	212	0	0
Total	3,602	2,861	2,510	45,616

Note-

Plant availability is the availability recorded at 6 am on

December 13, 2024

1.9 Contribution to the Night Peak in MW

December 12, 2024

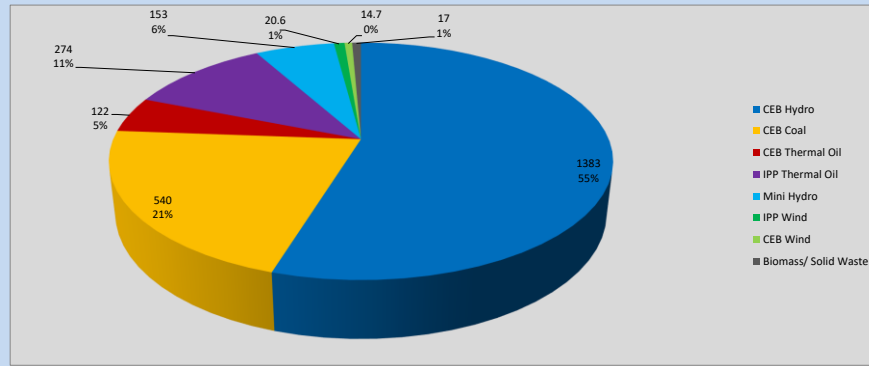


Table 05

CEB Hydro	1383	MW
CEB Coal	540	MW
CEB Thermal Oil	122	MW
IPP Thermal Oil	274	MW
Mini Hydro (Telemetered)	153	MW
IPP Wind	20.6	MW
CEB Wind	14.7	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

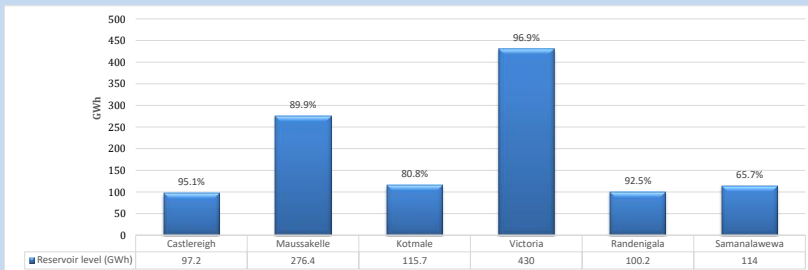
Table 06

Night Peak*	2,524	MW
Day Peak Maximum Demand	2,320	MW
Day Peak Minimum Demand	1,771	MW
Off Peak Minimum Demand	1,417	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 13, 2024



Total Reservoir Level
% of Total capacity

1133.5 GWh
88.7%

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

December 12, 2024

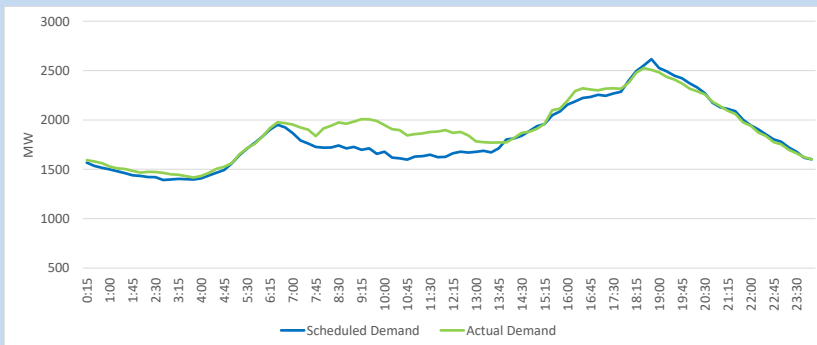
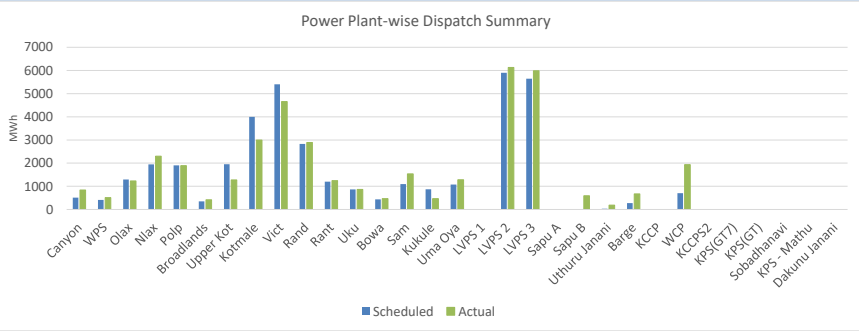


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	26,149	25,002	(1,147)
CEB Coal	11,545	12,156	611
CEB Thermal Oil	305	1,434	1,129
IPP Thermal Oil	706	1,879	1,173
NCRE (excluding non telemetered power plants)	5,210	5,146	(64)
Total	43,916	45,617	1,701

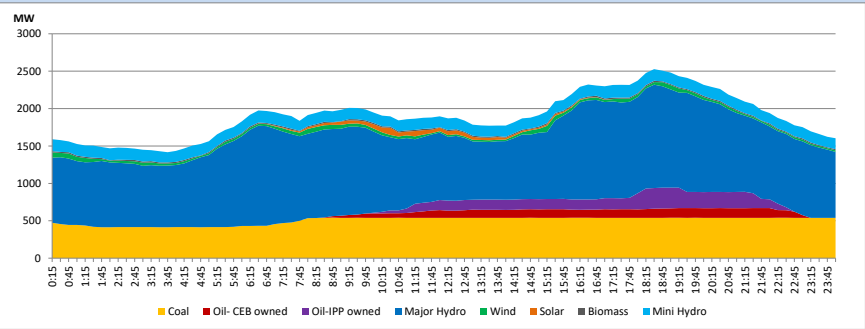
1.12 Power Plant-wise Dispatch Summary

December 12, 2024



1.13 Daily Load Curve

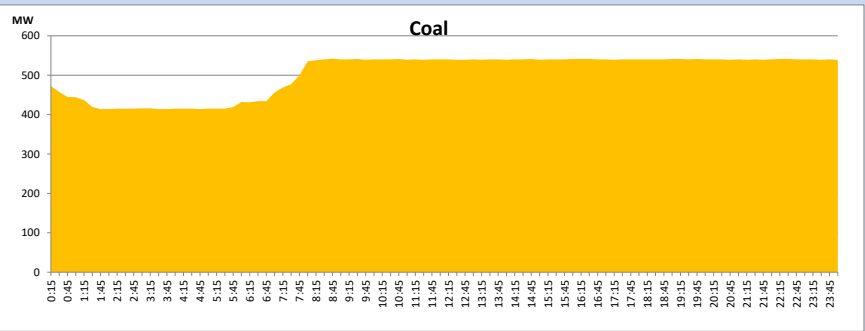
December 12, 2024



Solar and wind data is based on Telemetered Power Stations only

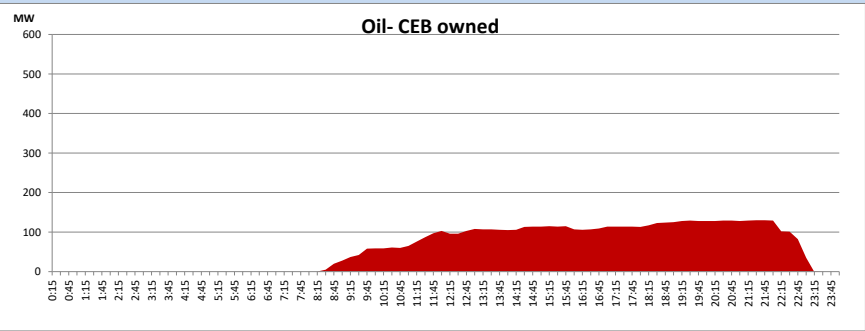
Coal Generation during

December 12, 2024

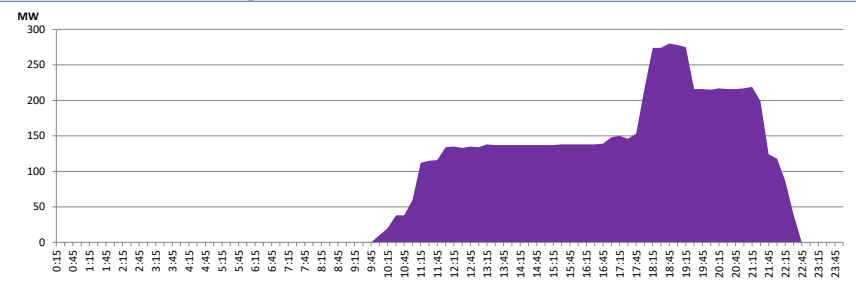


CEB Oil Plant Generation during

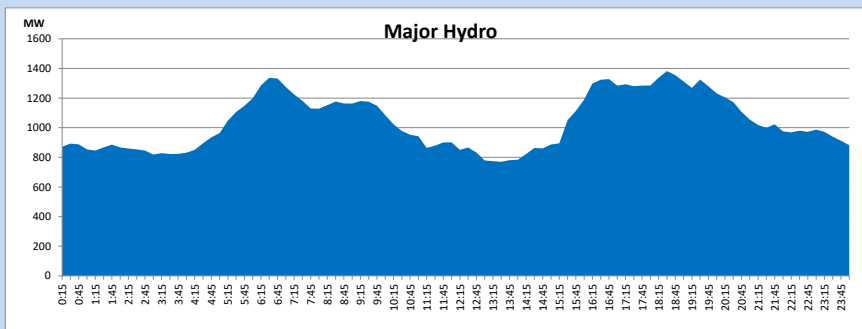
December 12, 2024



IPP Oil Plant Generation during December 12, 2024

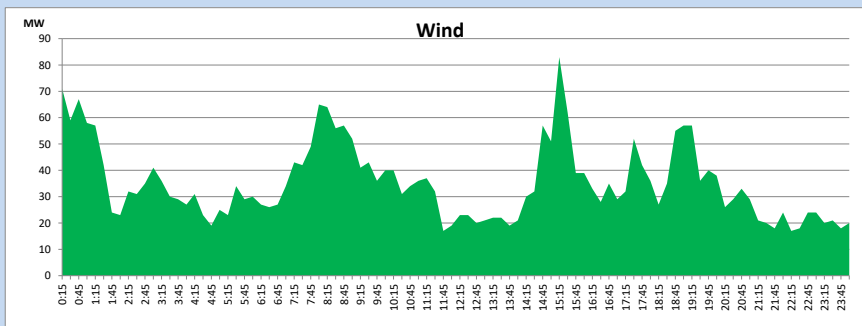


Major Hydro Generation during December 12, 2024



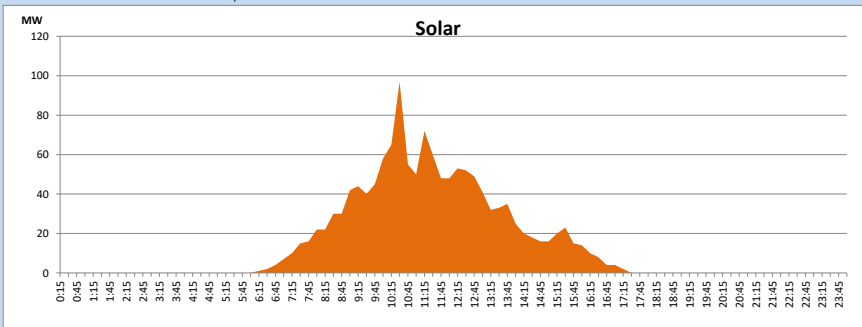
Wind Generation during December 12, 2024

Based on Telemetered Power Stations only



Solar Generation during December 12, 2024

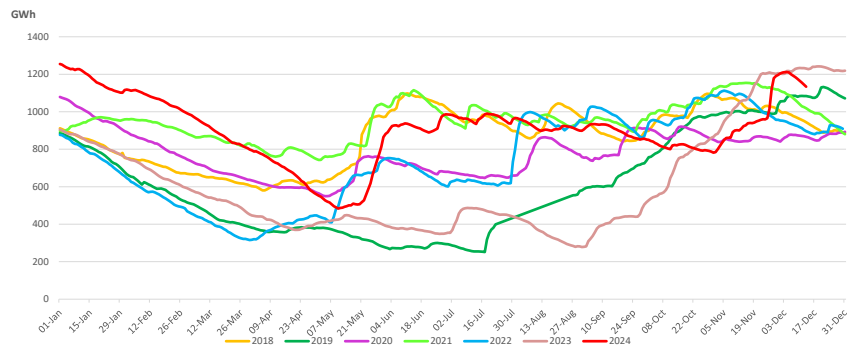
Based on Telemetered Power Stations only



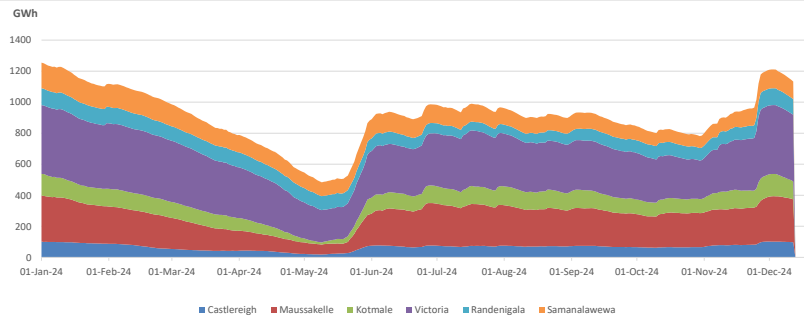
1.14 Major Incidents reported during the day December 12, 2024

- 1) Hambantota - New Polpitiya 220kV cct 02 which was manually switched off on 11.12.2024, normalized at 8:17hrs.

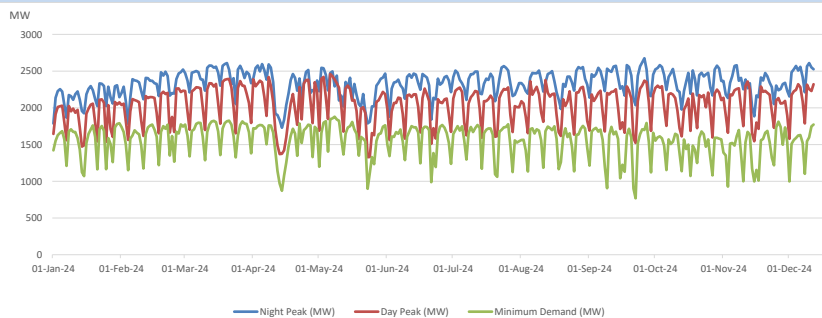
2. Comparison of Total Reservoir Storage Levels with Past Years



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

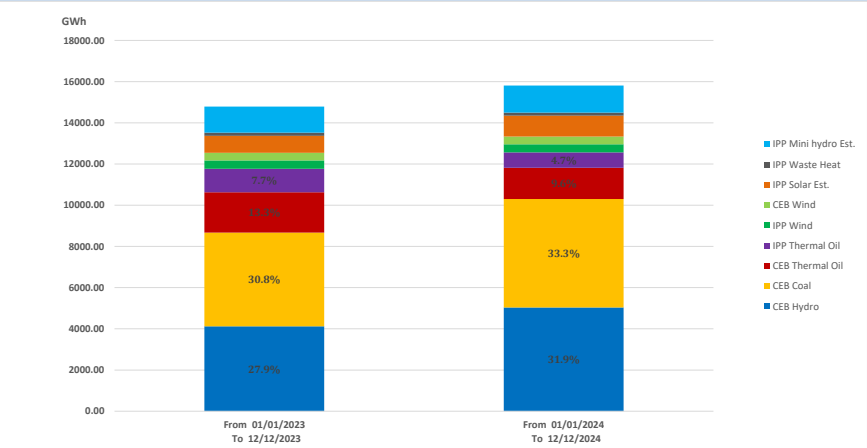


4. Variation of Demand during the current year



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 12/12/2023 14786 GWh
From 01/01/2024 To 12/12/2024 15807 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