

Generation and Reservoirs Statistics

November 29, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 29, 2024

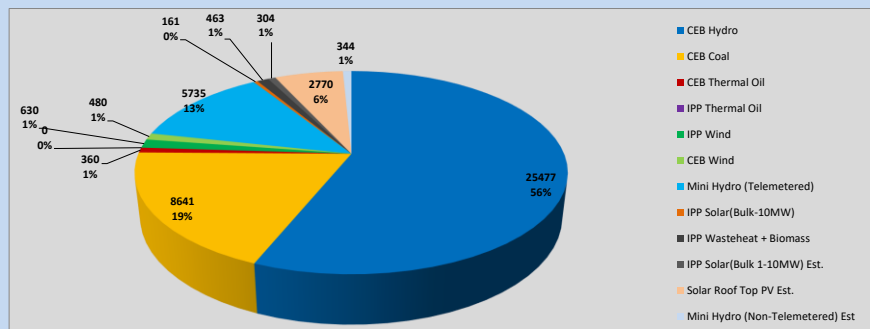


Table 01

	Generation (MWh)
CEB Hydro	25,477
CEB Coal	8,641
CEB Thermal Oil	360
IPP Thermal Oil	-
IPP Wind	630
CEB Wind	480
Mini Hydro (Telemetered)	5,735
IPP Solar (Bulk)	161
IPP Waste heat + Biomass	463
Total Generation (Excluding estimated figures)	41,947
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	344
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	45,365

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	475	37.26%
CEB Coal	346	27.13%
CEB Thermal Oil	113	8.88%
IPP Thermal	38	2.96%
IPP Wind	15	1.14%
CEB Wind	18	1.40%
Mini Hydro *	161	12.59%
IPP Solar *	97	7.62%
IPP Waste heat + BMP	13	1.03%
Total	1,276	

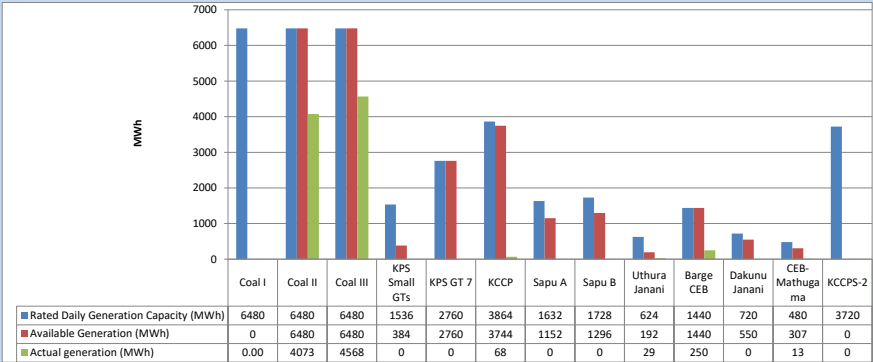
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,716	31.06%
CEB Coal	5,144	33.88%
CEB Thermal Oil	1,512	9.96%
IPP Thermal	735	4.84%
IPP Wind	391	2.57%
CEB Wind	366	2.41%
Mini Hydro *	1,230	8.10%
IPP Solar *	949	6.25%
IPP Waste heat	141	0.93%
Total	15,183	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 29, 2024

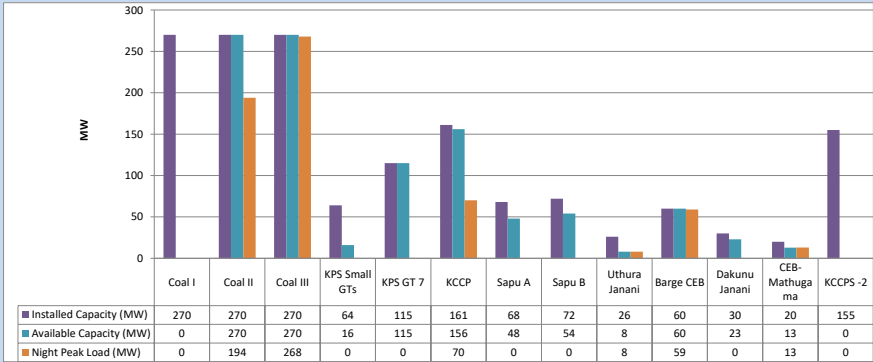


Available Generation is estimated based on plant availability at 6.00am on

November 30, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 29, 2024

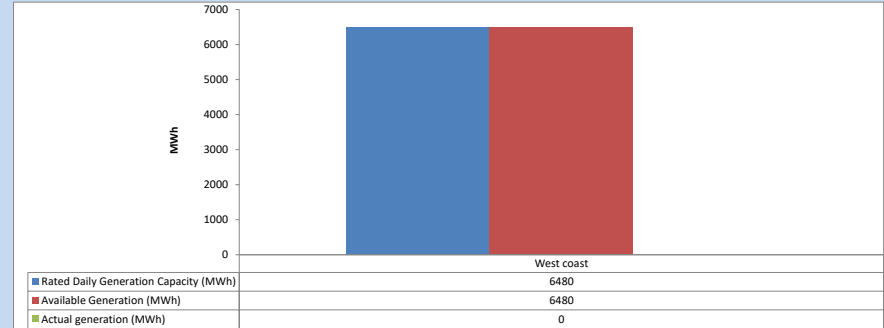


Plant availability is recorded at 6.00 am on

November 30, 2024

1.4 IPP owned Thermal Plant Dispatch

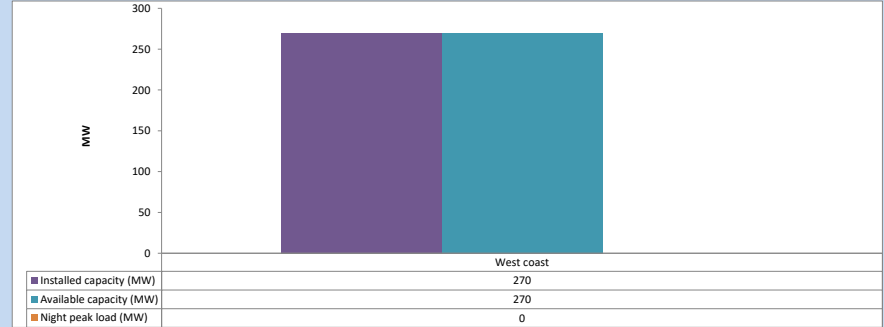
November 29, 2024



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

November 30, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

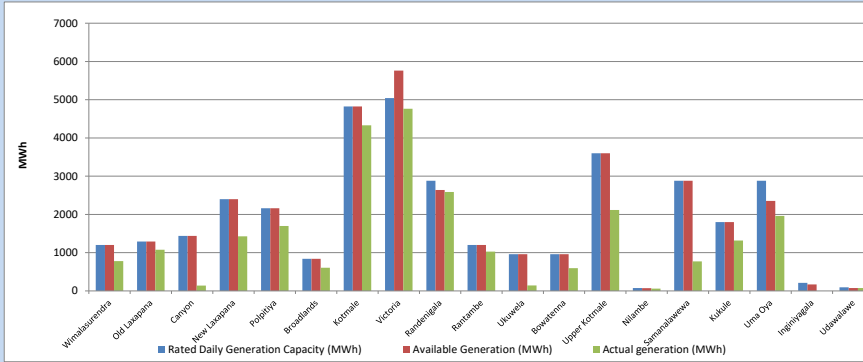


Plant availability is recorded at 6.00 am on

November 30, 2024

1.6 Major Hydro Plant Dispatch

November 29, 2024

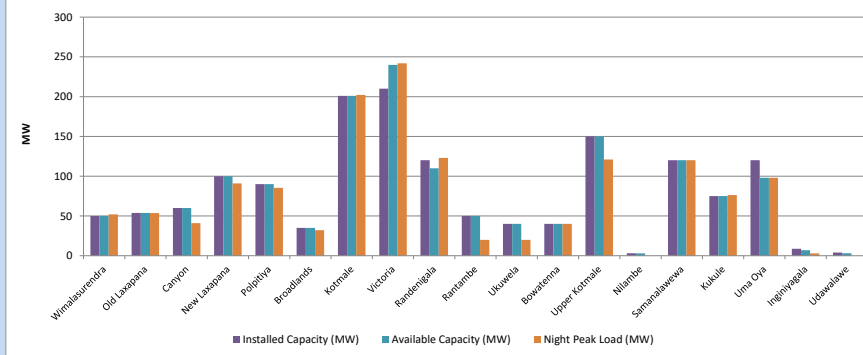


Available Generation is estimated based on plant availability at 6.00am on

November 30, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 29, 2024



Plant availability is recorded at 6.00 am on

November 30, 2024

1.8 Summary of Major Plant performance

November 29, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	779
Old Laxapana	54	54	54	1,077
Canyon	60	60	41	141
New Laxapana	100	100	91	1,427
Polpitiya	90	90	85	1,700
Broadlands	35	35	32	605
Kotmale	201	201	202	4,330
Victoria	210	240	242	4,764
Randenigala	120	110	123	2,588
Rantambe	50	50	20	1,029
Ukuwela	40	40	20	145
Bowatenna	40	40	40	594
Upper Kotmale	150	150	121	2,116
Nilambe	3	3	0	60
Samanalawewa	120	120	120	771
Kukule	75	75	76	1,318
Uma Oya	120	98	98	1,960
Inginigala	9	7	3	0
Udawalawe	4	3	0	75
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	194	4,073
Puttalam Coal III	270	270	268	4,568
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	70	68
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	8	8	29
Barge CEB	60	60	59	250
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	13	13	13
KCCPS -2	155	0	0	0
West Coast	270	270	0	0
Sobadhanavi	220	0	0	0
Total	3,602	3,041	2,313	41,949

Note-

Plant availability is the availability recorded at 6 am on

November 30, 2024

1.9 Contribution to the Night Peak in MW

November 29, 2024

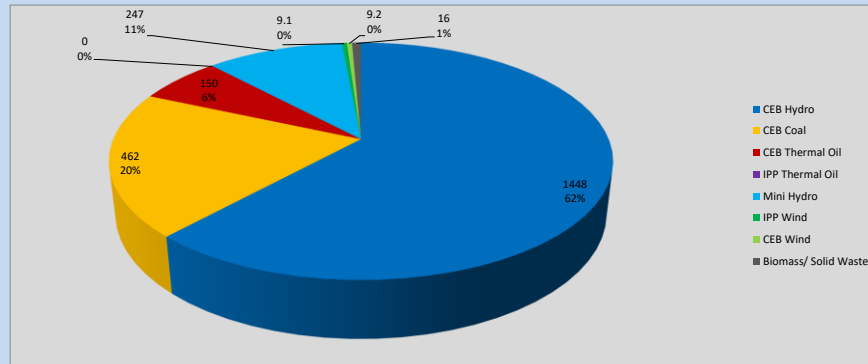


Table 05

CEB Hydro	1448	MW
CEB Coal	462	MW
CEB Thermal Oil	150	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	247	MW
IPP Wind	9.1	MW
CEB Wind	9.2	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

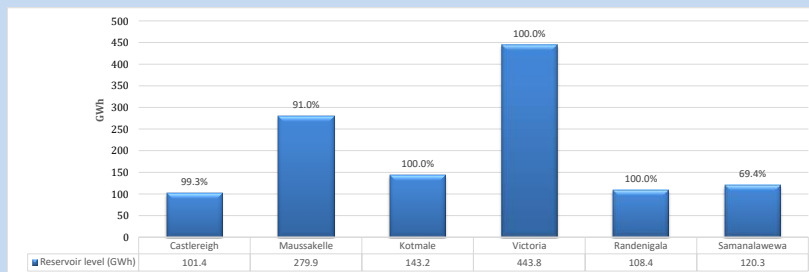
Table 06

Night Peak*	2,341	MW
Day Peak Maximum Demand	2,094	MW
Day Peak Minimum Demand	1,734	MW
Off Peak Minimum Demand	1,200	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 November 30, 2024



Total Reservoir Level
% of Total capacity

1197 GWh
93.6%

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

November 29, 2024

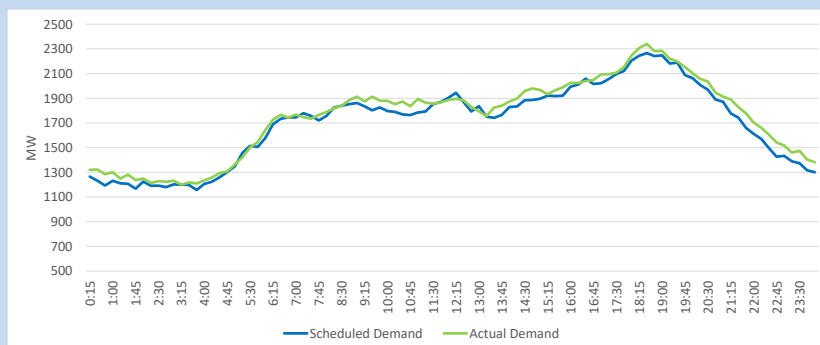
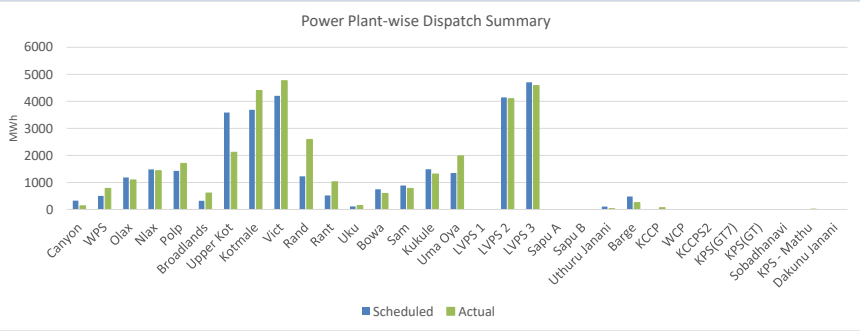


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	23,062	25,477	2,415
CEB Coal	8,851	8,641	(210)
CEB Thermal Oil	590	360	(230)
IPP Thermal Oil	-	-	-
NCRE (excluding non telemetered power plants)	8,312	7,469	(843)
Total	40,815	41,947	1,132

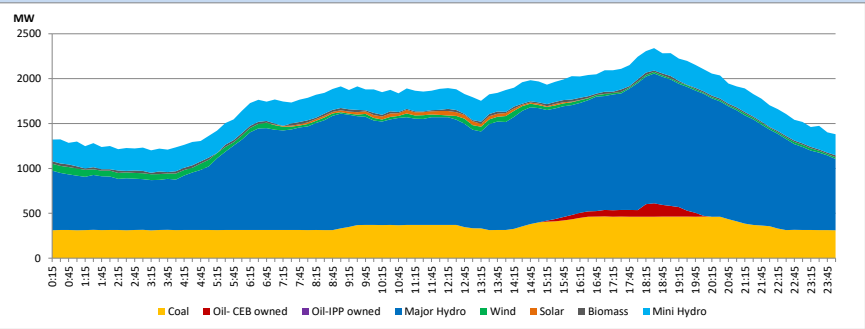
1.12 Power Plant-wise Dispatch Summary

November 29, 2024



1.13 Daily Load Curve

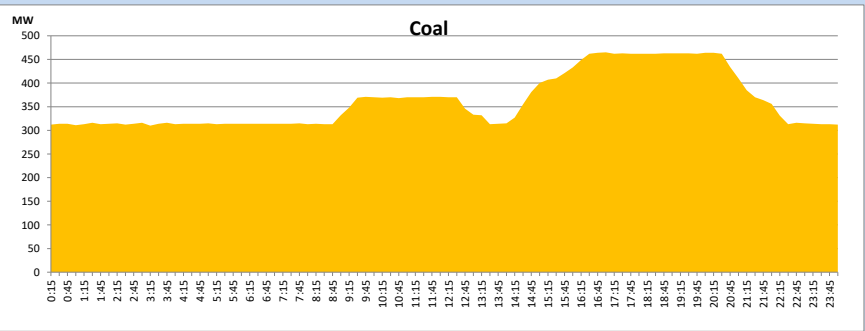
November 29, 2024



Solar and wind data is based on Telemetered Power Stations only

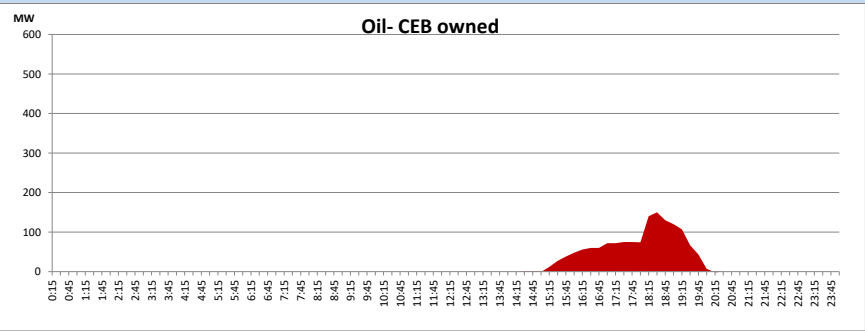
Coal Generation during

November 29, 2024



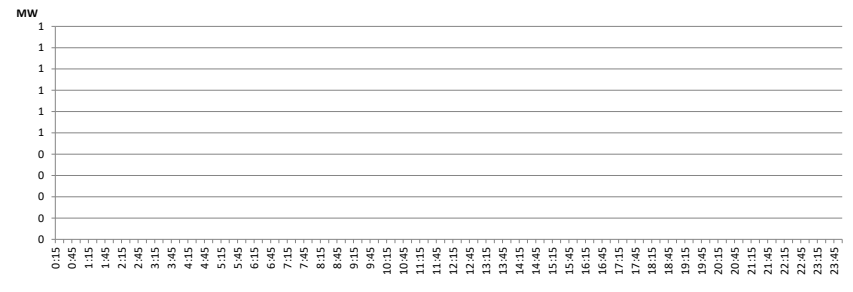
CEB Oil Plant Generation during

November 29, 2024



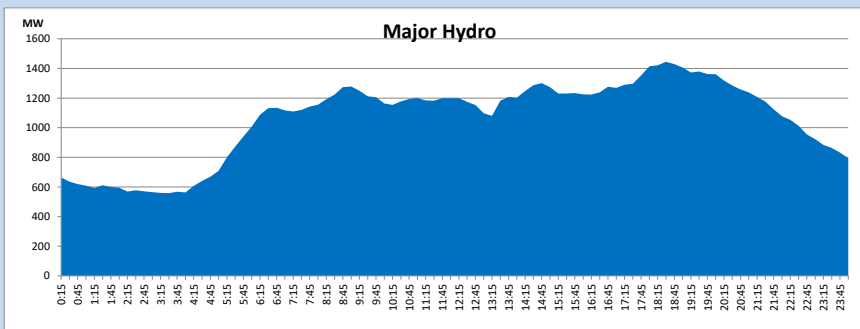
IPP Oil Plant Generation during

November 29, 2024



Major Hydro Generation during

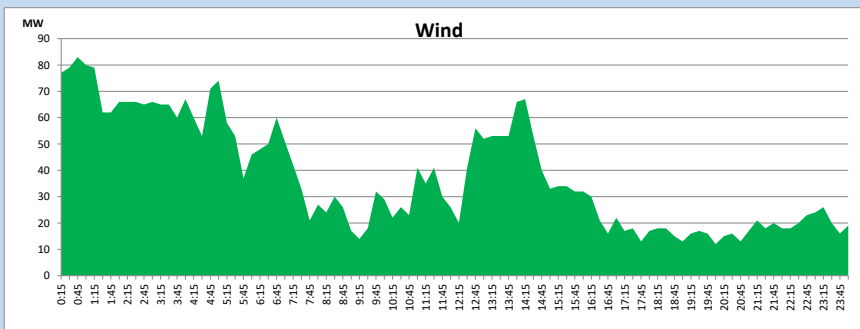
November 29, 2024



Wind Generation during

November 29, 2024

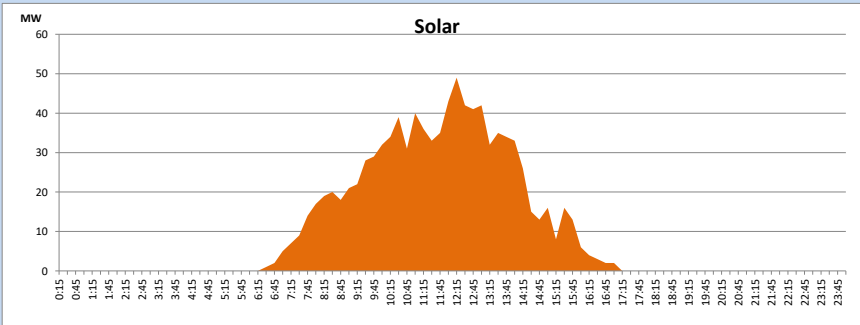
Based on Telemetered Power Stations only



Solar Generation during

November 29, 2024

Based on Telemetered Power Stations only

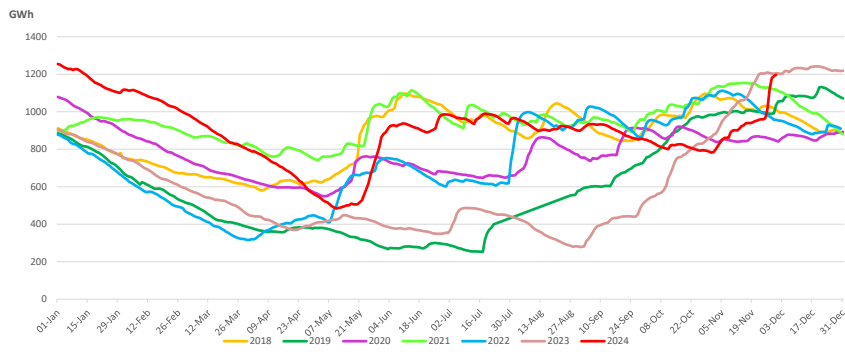


1.14 Major Incidents reported during the day

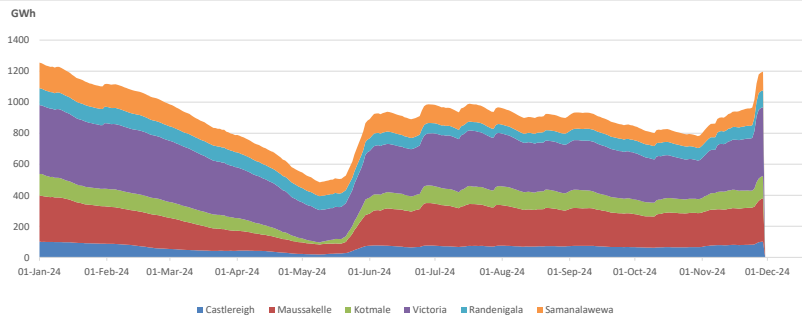
November 29, 2024

- 1) Kotmale reservoir spilling stopped at 20:10hrs and started at 22:45hrs, and stopped again at 3:40hrs (30/11/2024) and started again at 6:01hrs (30/11/2024) and continues to the present hour.
- 2) Victoria & Randenigala reservoirs spilling continues to the present hour.
- 3) Norton pond spilling started at 7:35hrs and stopped at 23:30hrs, and started again at 6:15hrs (30/11/2024) and continues to the present hour.
- 4) Uma Oya Dyraaba spilling started at 20:20hrs and continues to the present hour & Puhulpola pond spilling started at 18:40hrs and stopped at 20:35hrs, and started again at 3:40hrs (30/11/2024) and continues to the present hour.
- 5) Upper kotmale pond and Rantambe pond spilling continues to the present hour.
- 4) Uma Oya Dyraaba spilling started at 20:20hrs and continues to the present hour & Puhulpola pond spilling started at 18:40hrs and stopped at 20:35hrs, and started again at 3:40hrs (30/11/2024) and continues to the present hour.
- 5) Upper kotmale pond and Rantambe pond spilling continues to the present hour.

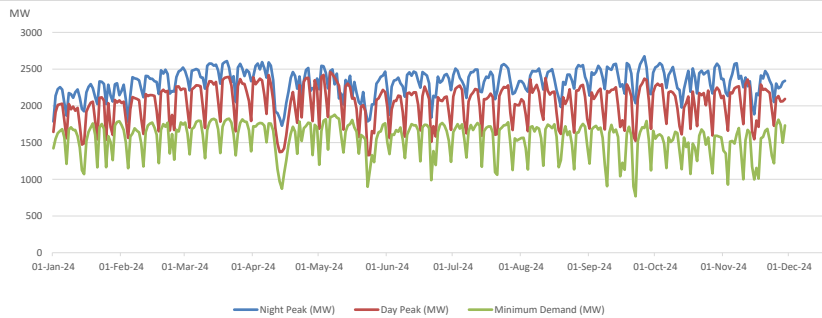
2. Comparison of Total Reservoir Storage Levels with Past Years



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

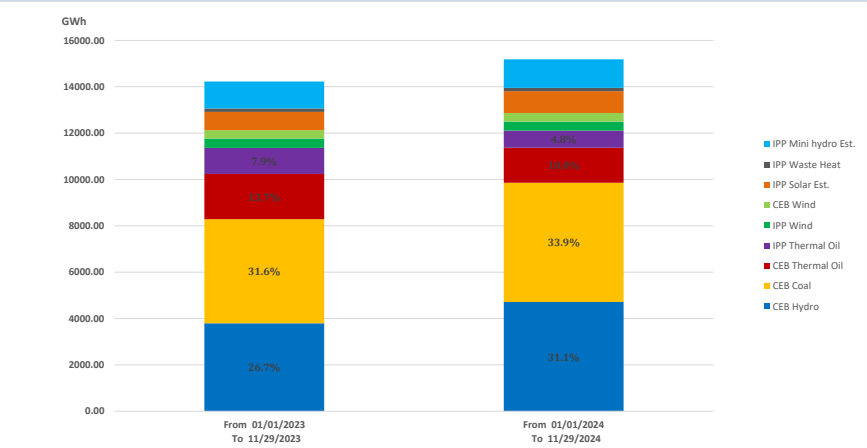


4. Variation of Demand during the current year



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 11/29/2023 14226 GWh
From 01/01/2024 To 11/29/2024 15183 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