

Generation and Reservoirs Statistics

October 28, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 28, 2024

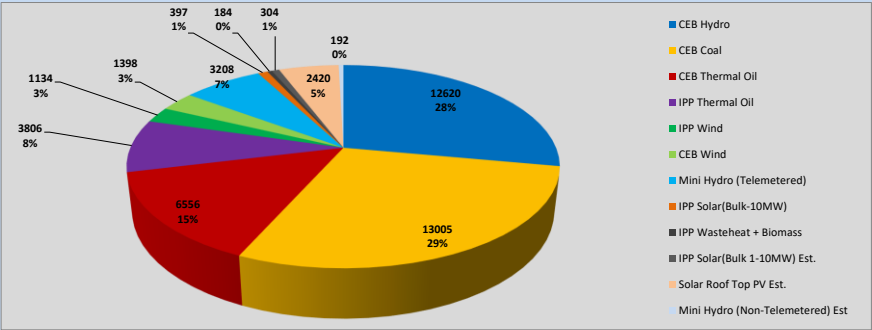


Table 01

	Generation (MWh)
CEB Hydro	12620
CEB Coal	13005
CEB Thermal Oil	6556
IPP Thermal Oil	3806
IPP Wind	1134
CEB Wind	1398
Mini Hydro (Telemetered)	3208
IPP Solar (Bulk)	397
IPP Waste heat + Biomass	184
Total Generation (Excluding estimated figures)	42,308
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	192
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	45,224

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	353	28.61%
CEB Coal	361	29.22%
CEB Thermal Oil	178	14.45%
IPP Thermal	116	9.37%
IPP Wind	23	1.83%
CEB Wind	29	2.32%
Mini Hydro *	84	6.79%
IPP Solar *	86	6.93%
IPP Waste heat + BMP	6	0.46%
Total	1,235	

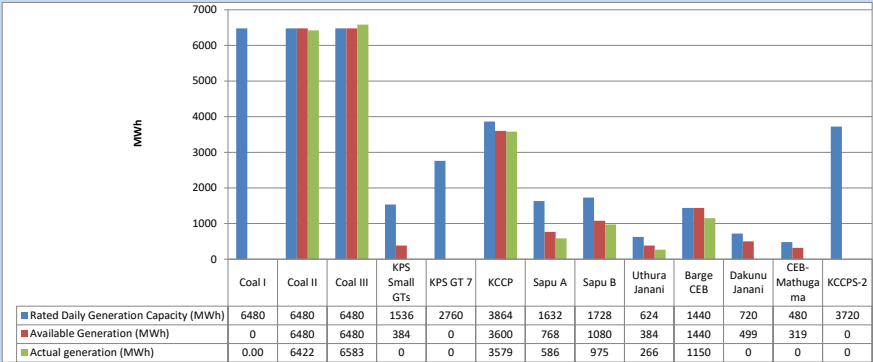
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,203	30.53%
CEB Coal	4,758	34.56%
CEB Thermal Oil	1,378	10.01%
IPP Thermal	679	4.93%
IPP Wind	375	2.72%
CEB Wind	346	2.51%
Mini Hydro *	1,060	7.70%
IPP Solar *	843	6.12%
IPP Waste heat	127	0.92%
Total	13,769	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 28, 2024

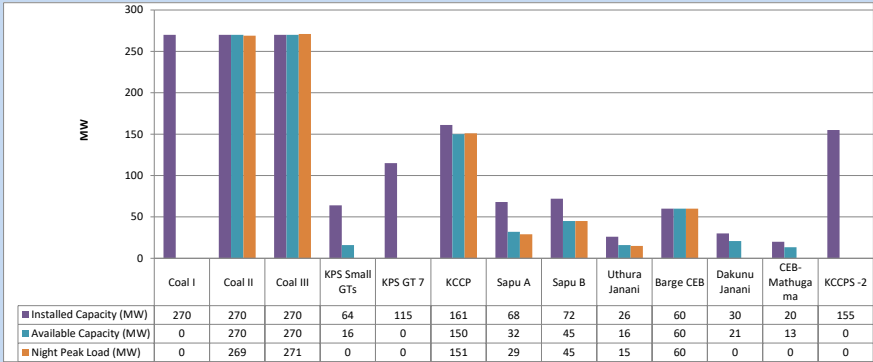


Available Generation is estimated based on plant availability at 6.00am on

October 29, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 28, 2024

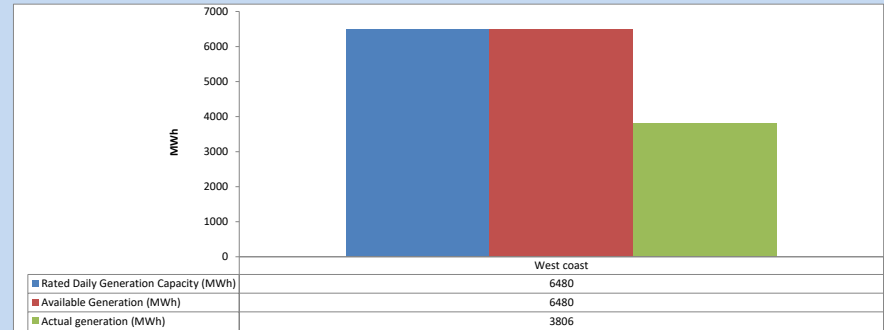


Plant availability is recorded at 6.00 am on

October 29, 2024

1.4 IPP owned Thermal Plant Dispatch

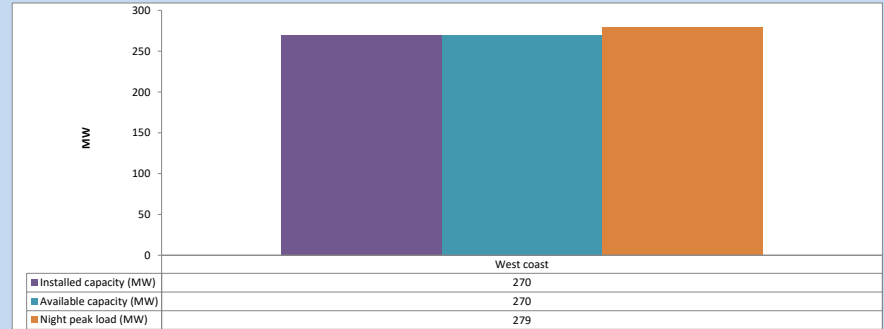
October 28, 2024



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

October 29, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

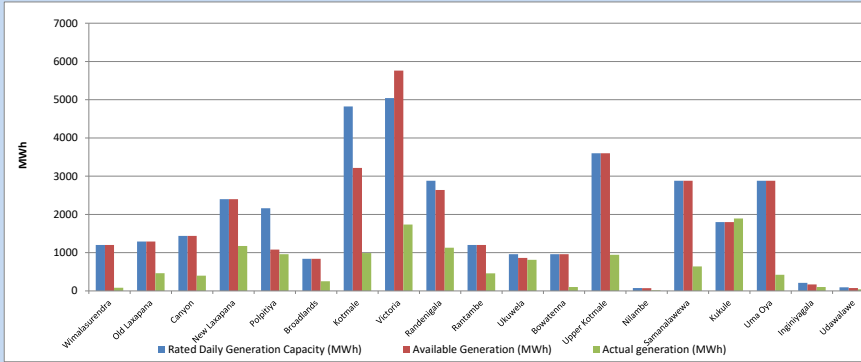


Plant availability is recorded at 6.00 am on

October 29, 2024

1.6 Major Hydro Plant Dispatch

October 28, 2024

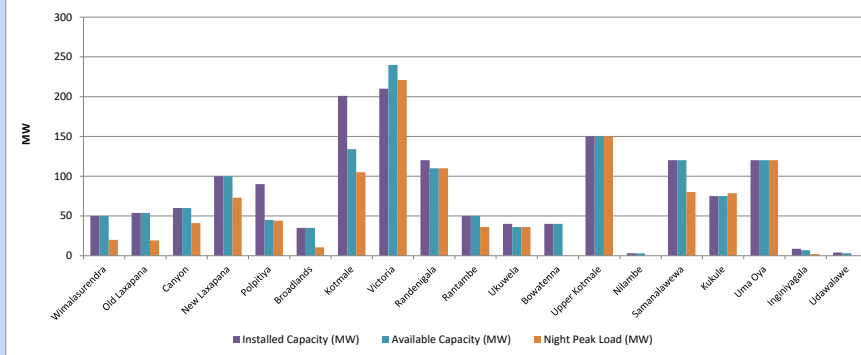


Available Generation is estimated based on plant availability at 6.00am on

October 29, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 28, 2024



Plant availability is recorded at 6.00 am on

October 29, 2024

1.8 Summary of Major Plant performance

October 28, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	84
Old Laxapana	54	54	19	464
Canyon	60	60	41	401
New Laxapana	100	100	73	1,176
Polpitiya	90	45	44	960
Broadlands	35	35	11	253
Kotmale	201	134	105	990
Victoria	210	240	221	1,736
Randenigala	120	110	110	1,131
Rantambe	50	50	36	460
Ukuwela	40	36	36	814
Bowatenna	40	40	0	100
Upper Kotmale	150	150	150	945
Nilambe	3	3	0	15
Samanalawewa	120	120	80	640
Kukule	75	75	79	1,893
Uma Oya	120	120	120	420
Inginigala	9	7	2	100
Udawalawe	4	3	0	40
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,422
Puttalam Coal III	270	270	271	6,583
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	151	3,579
Sapugaskanda A	68	32	29	586
Sapugaskanda B	72	45	45	975
Uthura Janani	26	16	15	266
Barge CEB	60	60	60	1,150
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	279	3,806
Sobadhanavi	220	0	0	0
Total	3,602	2,807	2,510	42,310

Note-

Plant availability is the availability recorded at 6 am on

October 29, 2024

1.9 Contribution to the Night Peak in MW

October 28, 2024

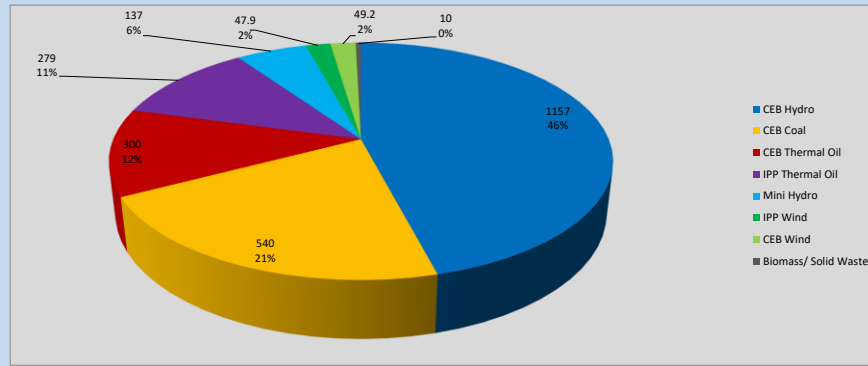


Table 05

CEB Hydro	1157	MW
CEB Coal	540	MW
CEB Thermal Oil	300	MW
IPP Thermal Oil	279	MW
Mini Hydro (Telemetered)	137	MW
IPP Wind	47.9	MW
CEB Wind	49.2	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

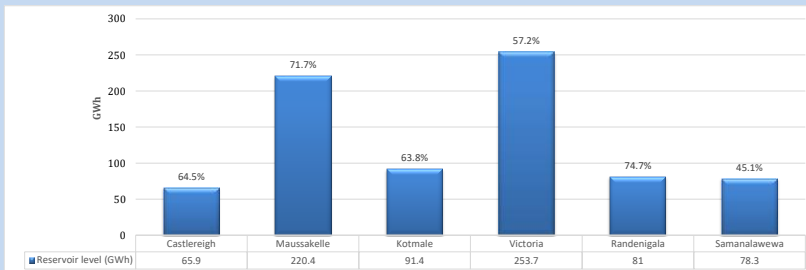
Table 06

Night Peak*	2,520	MW
Day Peak Maximum Demand	2,194	MW
Day Peak Minimum Demand	1,592	MW
Off Peak Minimum Demand	1,269	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 October 29, 2024



Total Reservoir Level
790.7 GWh
% of Total capacity
61.9%

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

October 28, 2024

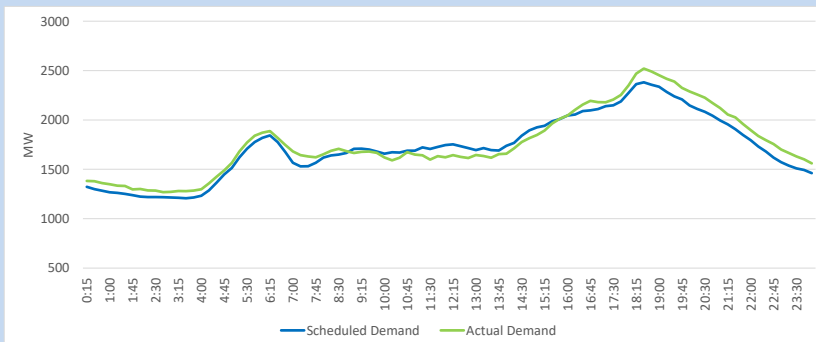
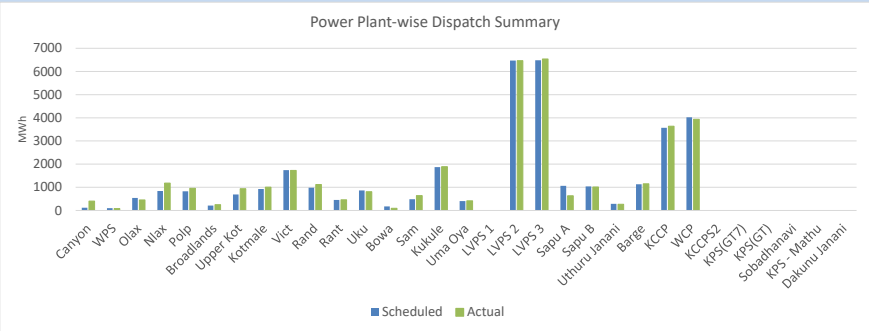


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,240	12,441	1,200
CEB Coal	12,952	13,004	52
CEB Thermal Oil	7,089	6,707	(382)
IPP Thermal Oil	4,023	3,932	(92)
NCRE (Telemetered)	6,059	6,293	233
Total	41,365	42,376	1,011

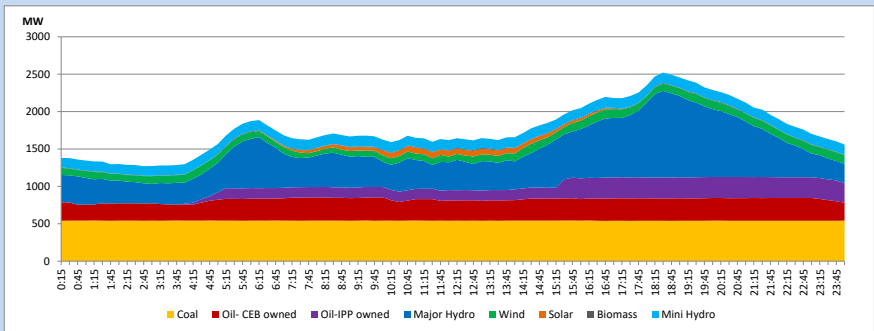
1.12 Power Plant-wise Dispatch Summary

October 28, 2024



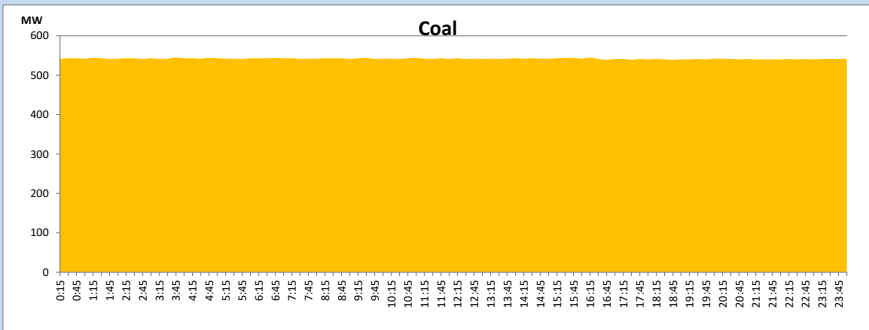
1.13 Daily Load Curve

October 28, 2024



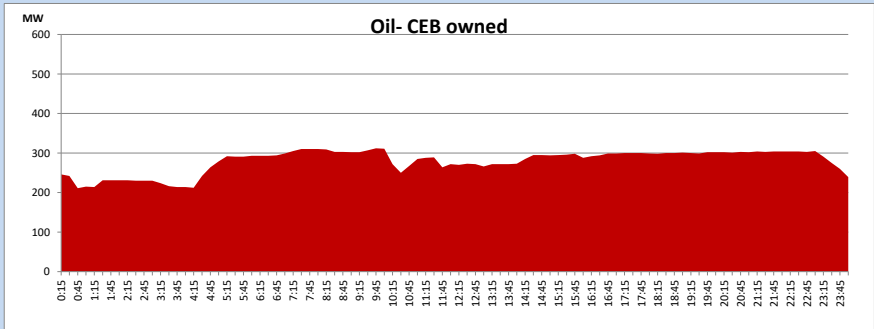
Coal Generation during

October 28, 2024



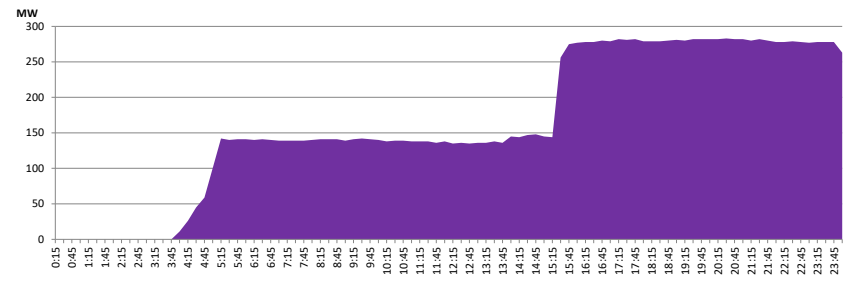
CEB Oil Plant Generation during

October 28, 2024



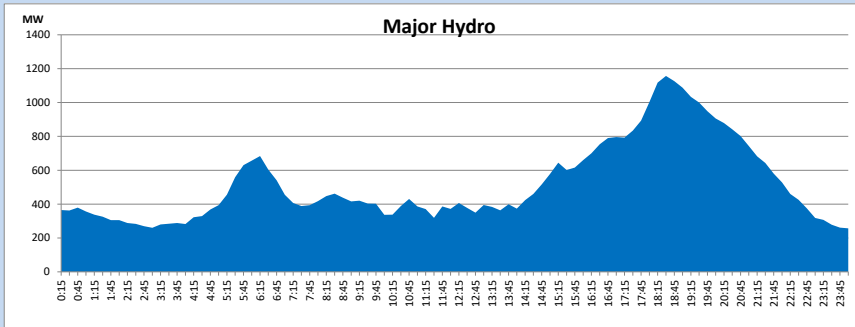
IPP Oil Plant Generation during

October 28, 2024



Major Hydro Generation during

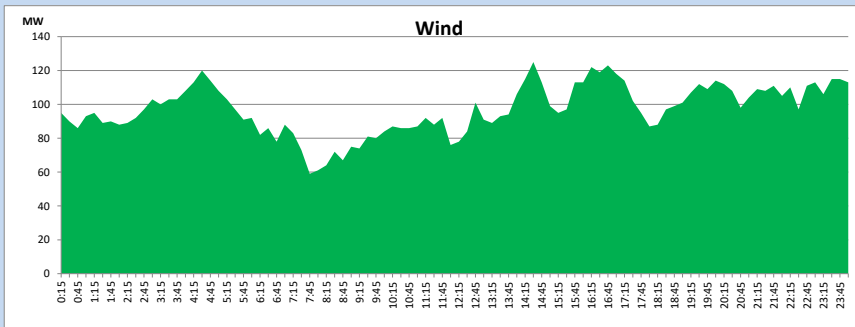
October 28, 2024



Wind Generation during

October 28, 2024

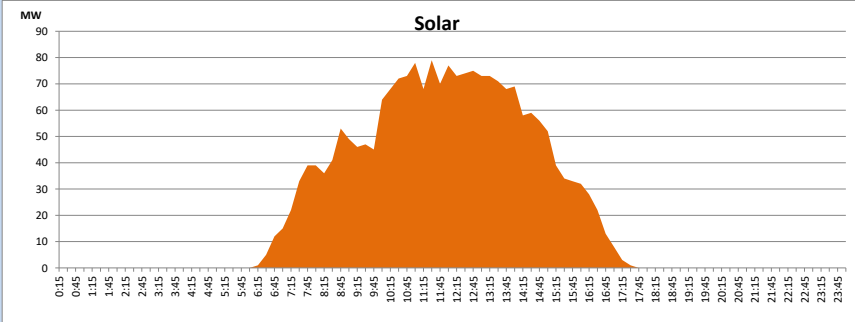
Based on Telemetered Power Stations only



Solar Generation during

October 28, 2024

Based on Telemetered Power Stations only

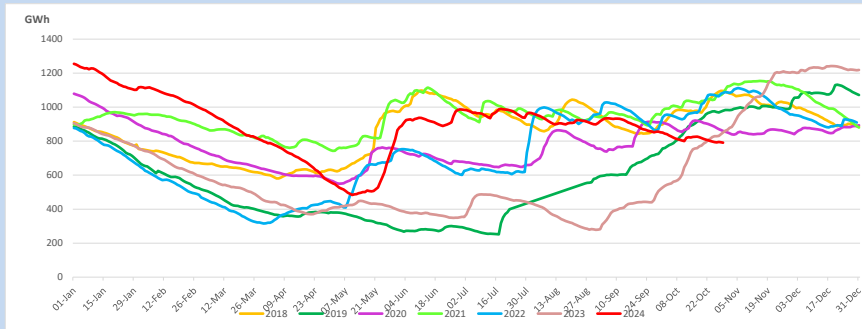


1.14 Major Incidents reported during the day

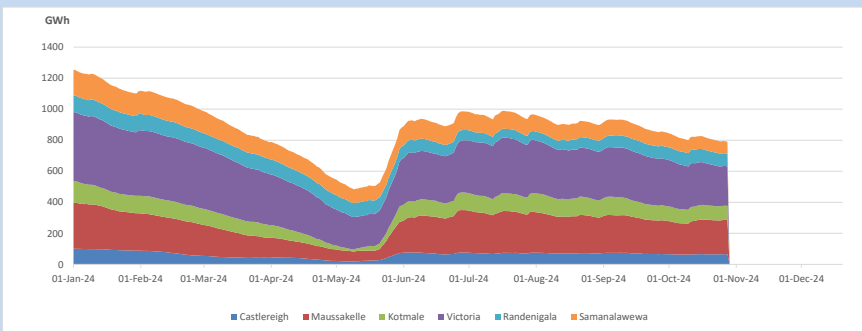
October 28, 2024

- 1) Pannipitiya - Ratmalana 132kV cct 02 tripped from both ends at 12:42hrs. The cct was normalized at 14:53hrs.
- 2) Kukule pond spilling started at 12:45hrs and stopped at 04:31hrs (29.10.2024).

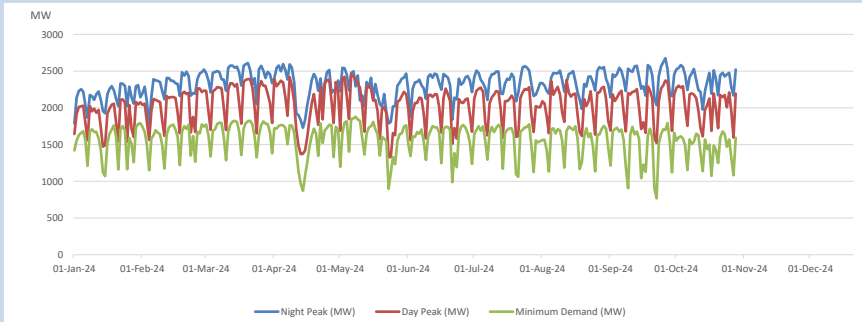
2. Comparison of Total Reservoir Storage Levels with Past Years



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

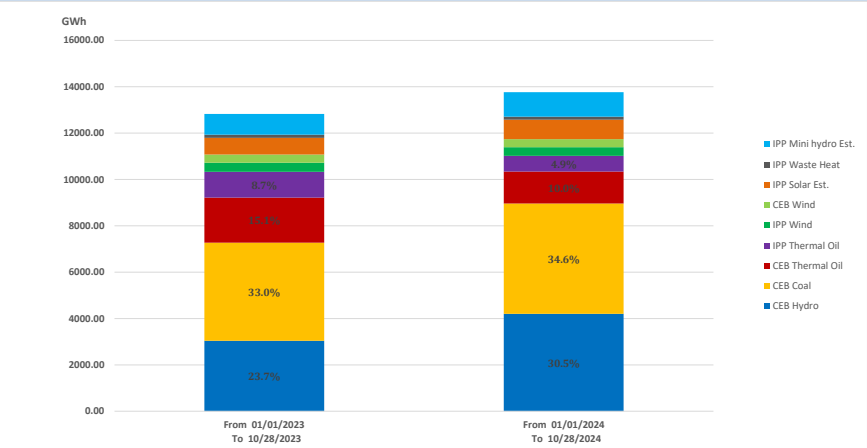


4. Variation of Demand during the current year



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 10/28/2023 12829 GWh
From 01/01/2024 To 10/28/2024 13769 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 Capacity

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)	495
Rooftop Solar (LT Bulk)	338
Rooftop Solar (HT Bulk)	104

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities