

Generation and Reservoirs Statistics

October 30, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 30, 2024

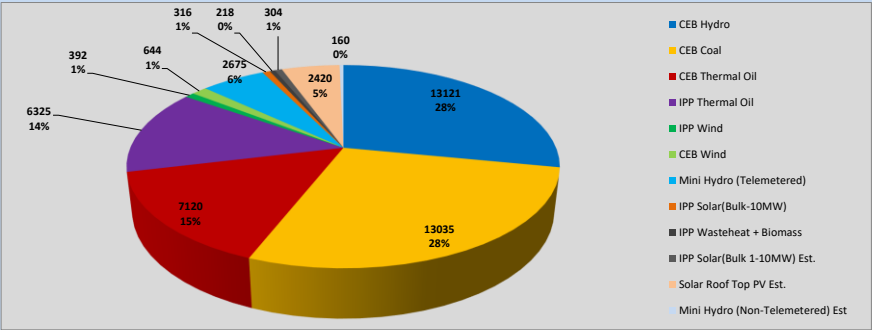


Table 01

	Generation (MWh)
CEB Hydro	13,121
CEB Coal	13,035
CEB Thermal Oil	7,120
IPP Thermal Oil	6,325
IPP Wind	392
CEB Wind	644
Mini Hydro (Telemetered)	2,675
IPP Solar (Bulk)	316
IPP Waste heat + Biomass	218
Total Generation (Excluding estimated figures)	43,846
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	160
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,420
Total Generation (Including estimated figures)	46,730

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	379	28.52%
CEB Coal	387	29.12%
CEB Thermal Oil	192	14.45%
IPP Thermal	128	9.65%
IPP Wind	24	1.79%
CEB Wind	30	2.29%
Mini Hydro *	90	6.81%
IPP Solar *	92	6.91%
IPP Waste heat + BMP	6	0.46%
Total	1,329	

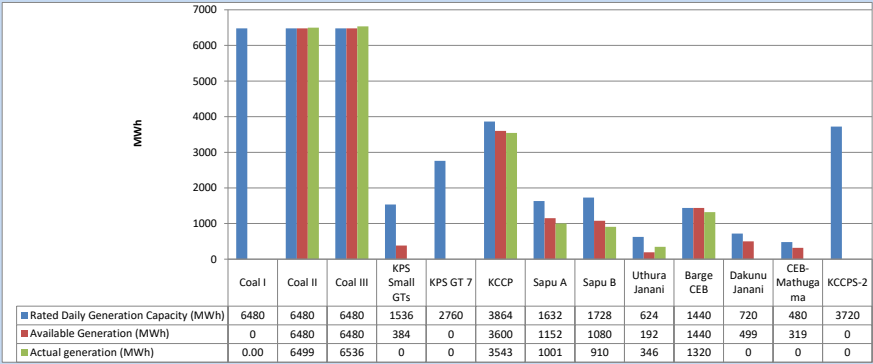
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,229	30.51%
CEB Coal	4,784	34.51%
CEB Thermal Oil	1,392	10.04%
IPP Thermal	691	4.99%
IPP Wind	376	2.71%
CEB Wind	348	2.51%
Mini Hydro *	1,066	7.69%
IPP Solar *	849	6.12%
IPP Waste heat	127	0.92%
Total	13,863	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 30, 2024

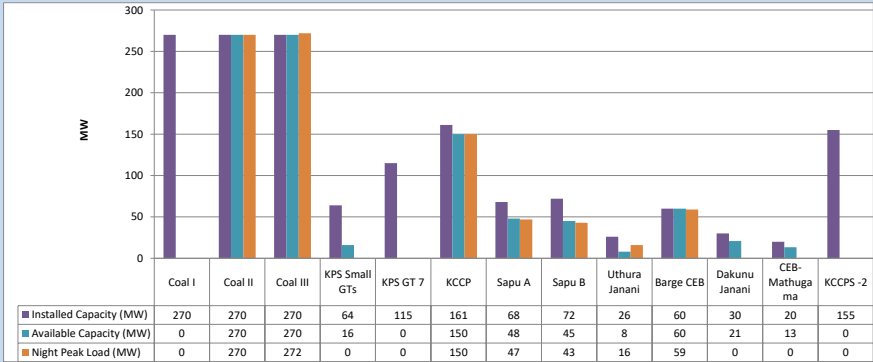


Available Generation is estimated based on plant availability at 6.00am on

October 31, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 30, 2024

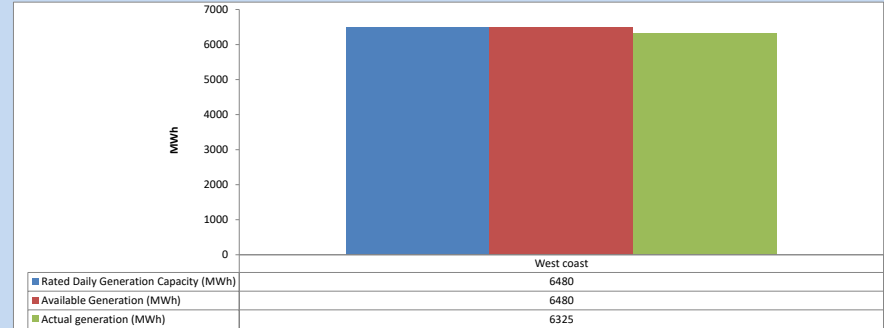


Plant availability is recorded at 6.00 am on

October 31, 2024

1.4 IPP owned Thermal Plant Dispatch

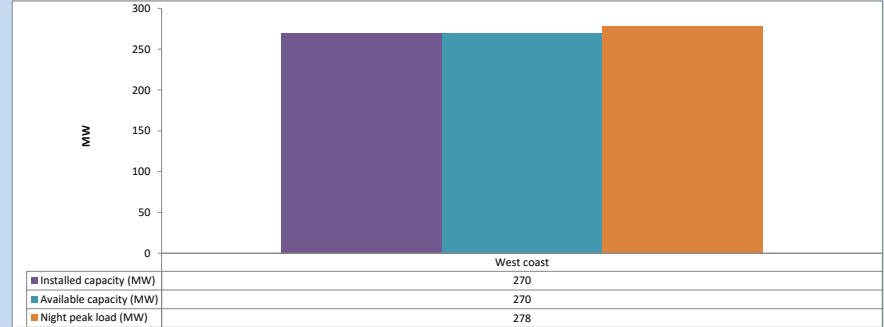
October 30, 2024



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

October 31, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

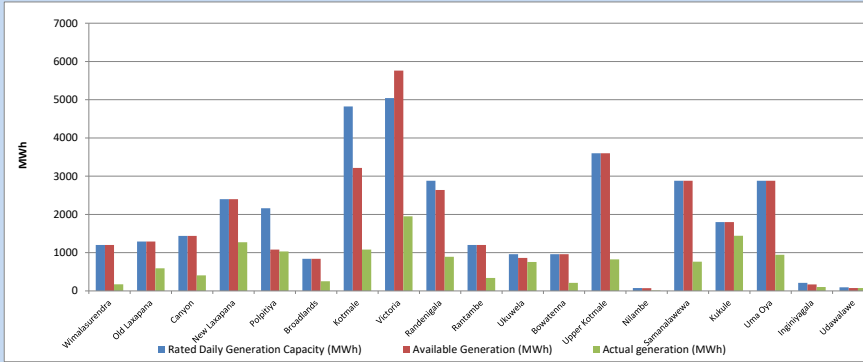


Plant availability is recorded at 6.00 am on

October 31, 2024

1.6 Major Hydro Plant Dispatch

October 30, 2024

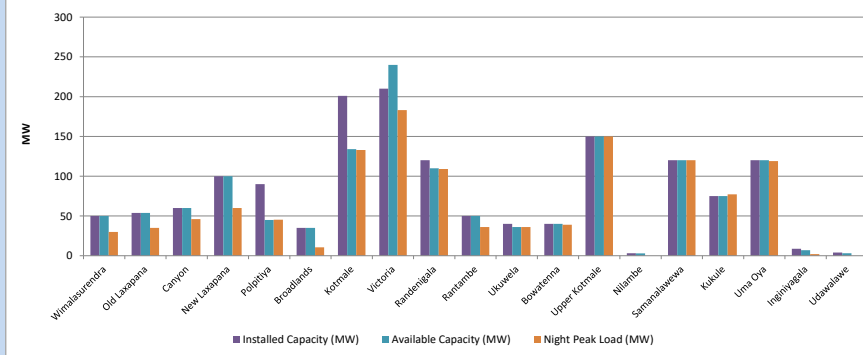


Available Generation is estimated based on plant availability at 6.00am on

October 31, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 30, 2024



Plant availability is recorded at 6.00 am on

October 31, 2024

1.8 Summary of Major Plant performance

October 30, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	173
Old Laxapana	54	54	35	592
Canyon	60	60	46	406
New Laxapana	100	100	60	1,272
Polpitiya	90	45	45	1,030
Broadlands	35	35	11	254
Kotmale	201	134	133	1,080
Victoria	210	240	183	1,949
Randenigala	120	110	109	894
Rantambe	50	50	36	340
Ukuwela	40	36	36	757
Bowatenna	40	40	39	212
Upper Kotmale	150	150	150	823
Nilambe	3	3	0	10
Samanalawewa	120	120	120	764
Kukule	75	75	77	1,443
Uma Oya	120	120	119	947
Inginigala	9	7	2	102
Udawalawe	4	3	0	75
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,499
Puttalam Coal III	270	270	272	6,536
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	150	3,543
Sapugaskanda A	68	48	47	1,001
Sapugaskanda B	72	45	43	910
Uthura Janani	26	8	16	346
Barge CEB	60	60	59	1,320
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	278	6,325
Sobadhanavi	220	0	0	0
Total	3,602	2,815	2,520	43,848

Note-

Plant availability is the availability recorded at 6 am on

October 31, 2024

1.9 Contribution to the Night Peak in MW

October 30, 2024

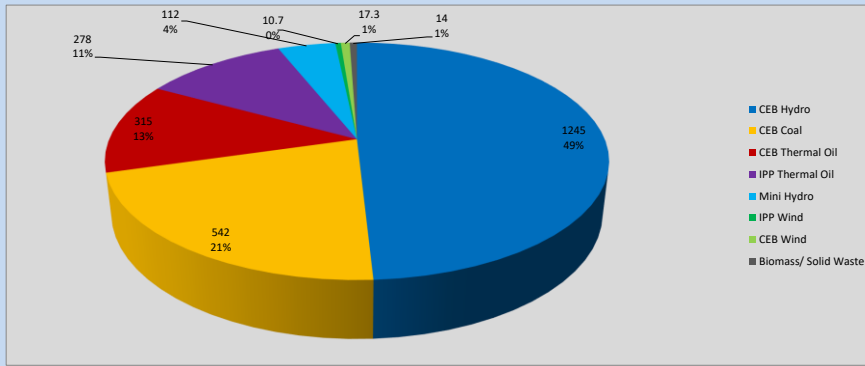


Table 05

CEB Hydro	1245	MW
CEB Coal	542	MW
CEB Thermal Oil	315	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	112	MW
IPP Wind	10.7	MW
CEB Wind	17.3	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

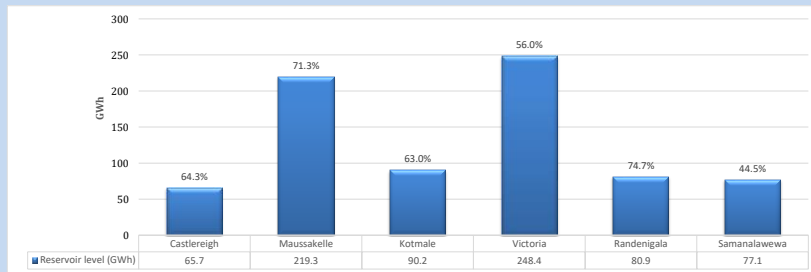
Table 06

Night Peak*	2,534	MW
Day Peak Maximum Demand	2,210	MW
Day Peak Minimum Demand	1,580	MW
Off Peak Minimum Demand	1,436	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 31, 2024



Total Reservoir Level
% of Total capacity

781.6 GWh
61.2%

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

October 30, 2024

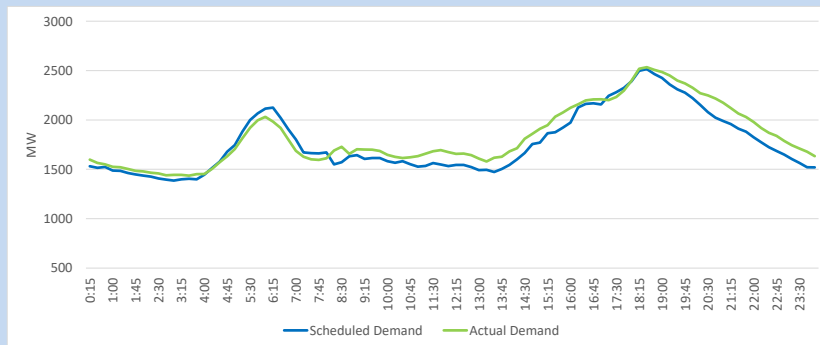
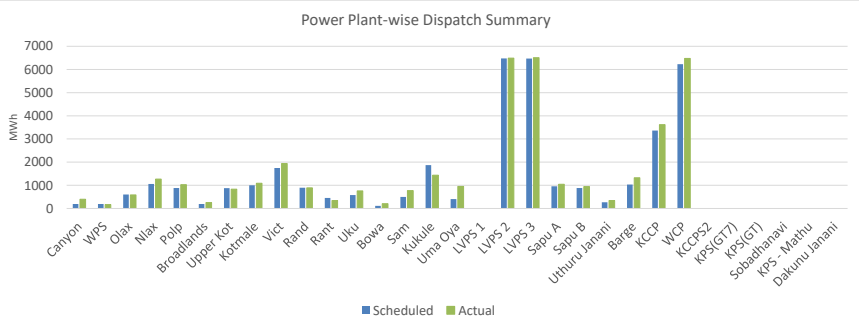


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,577	12,919	1,342
CEB Coal	12,945	13,001	56
CEB Thermal Oil	6,501	7,274	773
IPP Thermal Oil	6,226	6,475	249
NCRE (Telemetered)	5,203	4,306	(897)
Total	42,453	43,975	1,522

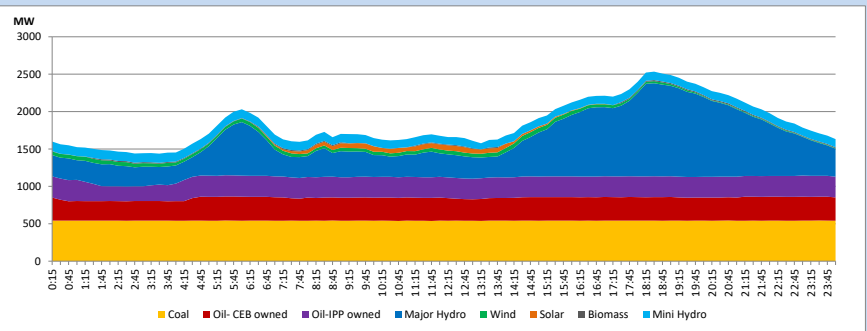
1.12 Power Plant-wise Dispatch Summary

October 30, 2024



1.13 Daily Load Curve

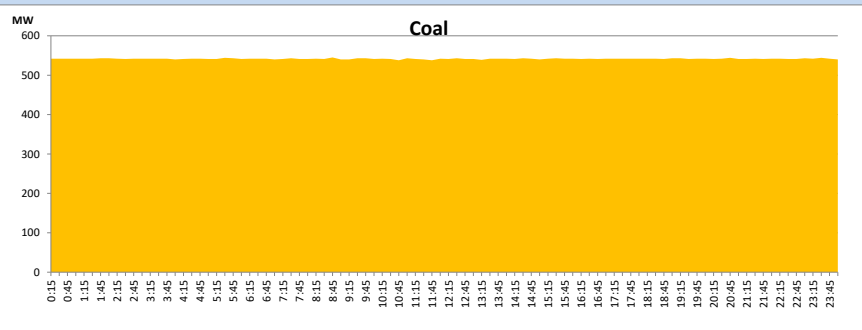
October 30, 2024



Solar and wind data is based on Telemetered Power Stations only

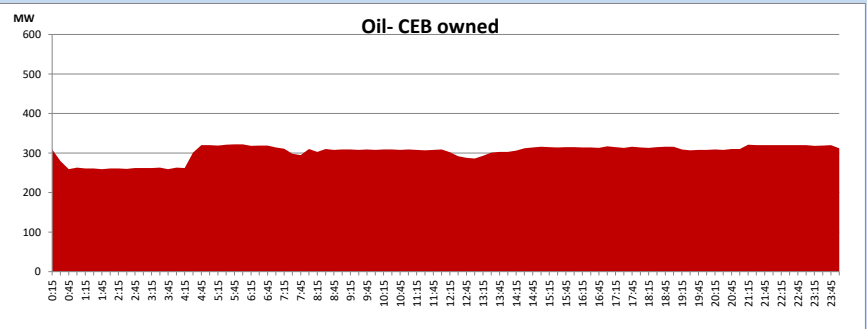
Coal Generation during

October 30, 2024



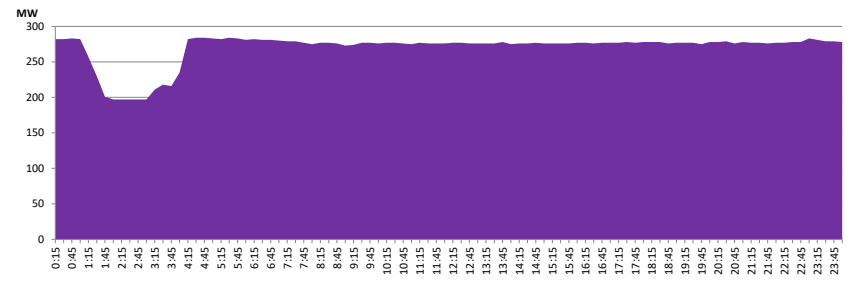
CEB Oil Plant Generation during

October 30, 2024



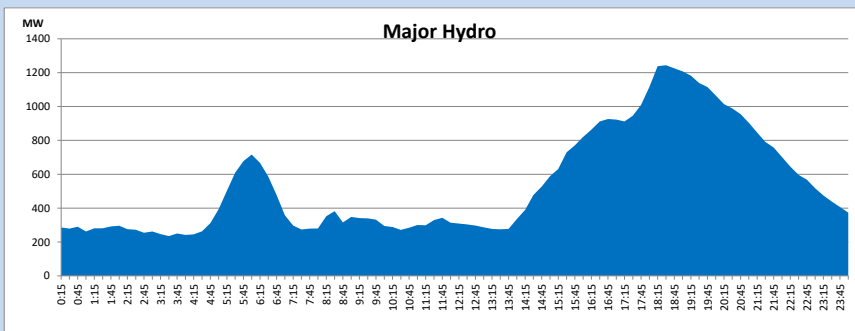
IPP Oil Plant Generation during

October 30, 2024



Major Hydro Generation during

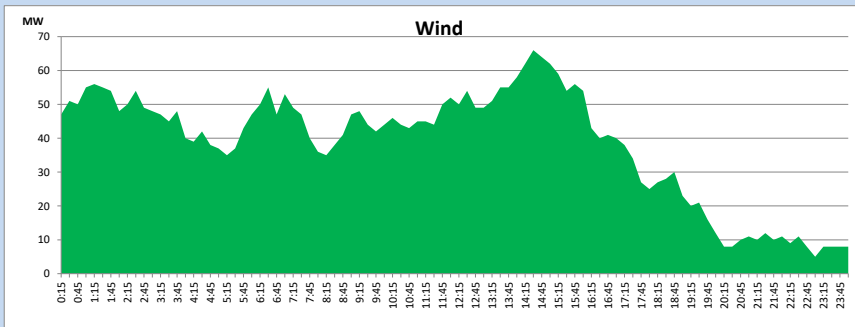
October 30, 2024



Wind Generation during

October 30, 2024

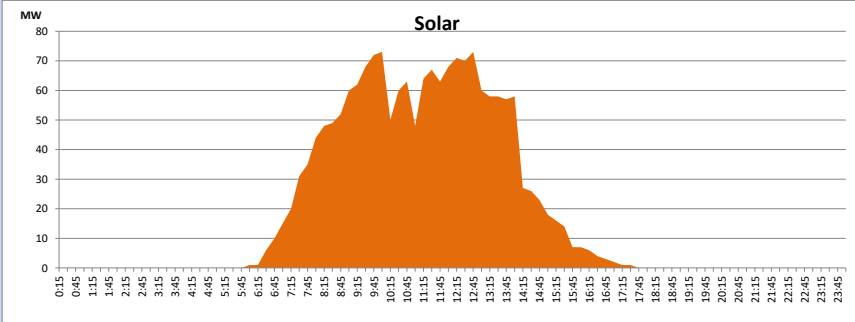
Based on Telemetered Power Stations only



Solar Generation during

October 30, 2024

Based on Telemetered Power Stations only

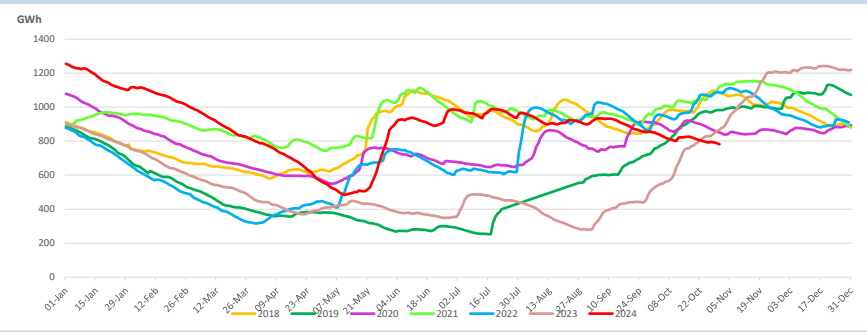


1.14 Major Incidents reported during the day

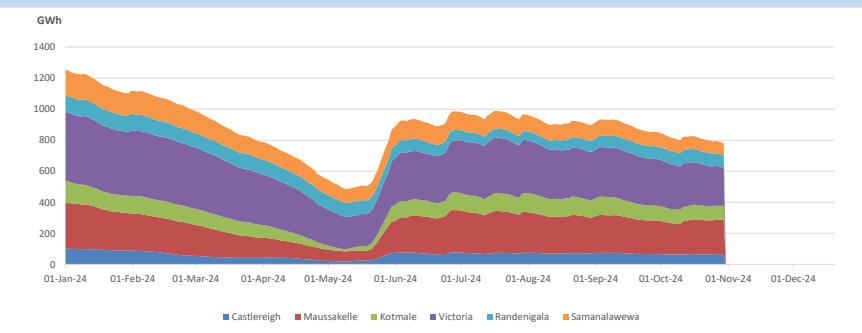
October 30, 2024

- 1) Kukule Generator 02 tripped at 08:38hrs rejecting 37.5MW from the system due to the Generator stator winding temperature high alarm. Subsequently, the system recovered with the operation of UFLS Stage-I. All the affected feeders were normalized by 08:50hrs and the Generator resumed
- 2) KCCPS2 GT tripped at 08:45hrs due to a GT rotor earth fault during the open cycle test run startup process. The unit is yet to be made available.

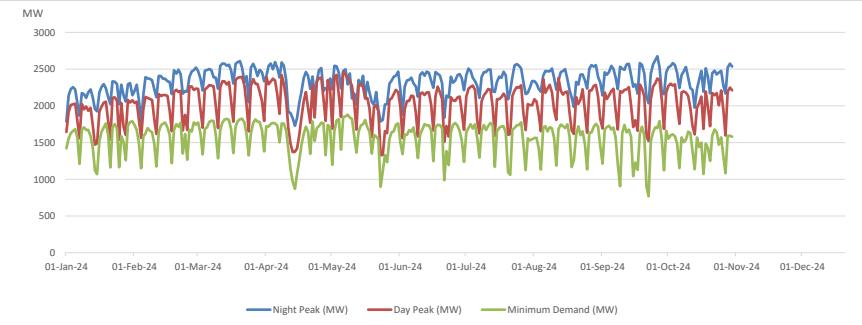
2. Comparison of Total Reservoir Storage Levels with Past Years



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

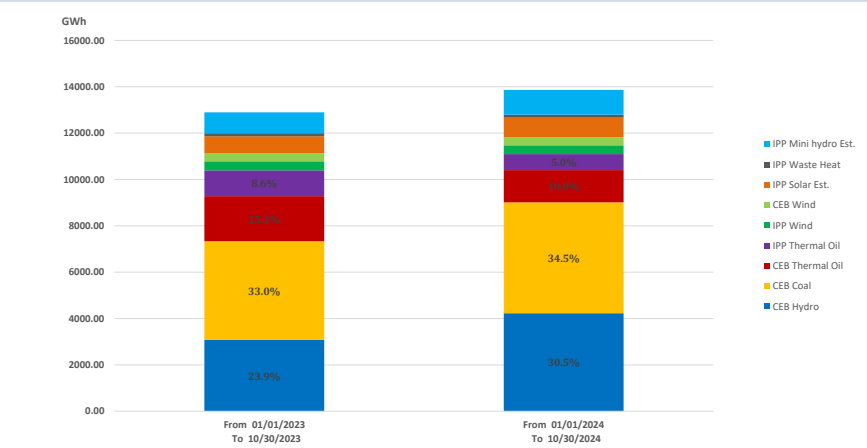


4. Variation of Demand during the current year



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 10/30/2023 12899 GWh
From 01/01/2024 To 10/30/2024 13863 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