

Generation and Reservoirs Statistics

October 25, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 25, 2024

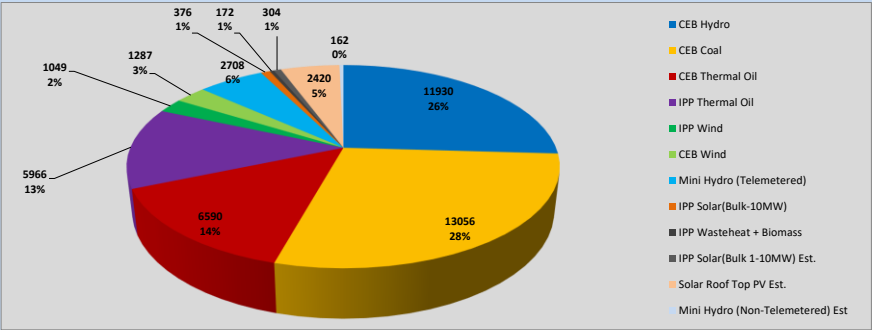


Table 01

	Generation (MWh)
CEB Hydro	11930
CEB Coal	13056
CEB Thermal Oil	6590
IPP Thermal Oil	5966
IPP Wind	1049
CEB Wind	1287
Mini Hydro (Telemetered)	2708
IPP Solar (Bulk)	376
IPP Waste heat + Biomass	172
Total Generation (Excluding estimated figures)	43,134
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	162
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	46,020

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	319	28.80%
CEB Coal	323	29.15%
CEB Thermal Oil	161	14.48%
IPP Thermal	109	9.79%
IPP Wind	19	1.72%
CEB Wind	24	2.16%
Mini Hydro *	73	6.55%
IPP Solar *	76	6.87%
IPP Waste heat + BMP	5	0.48%
Total	1,109	

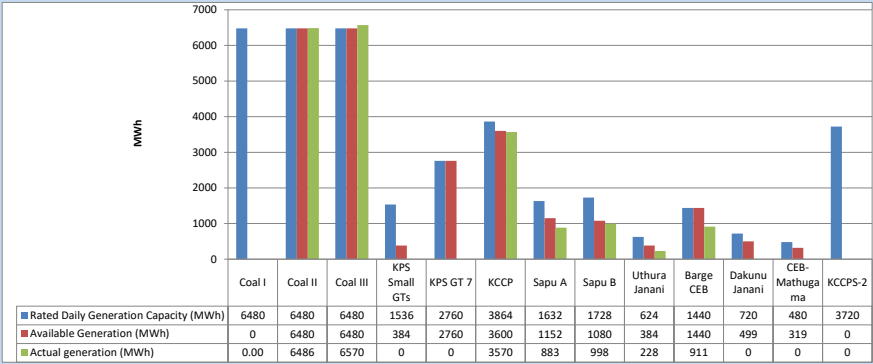
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,173	30.80%
CEB Coal	4,724	34.87%
CEB Thermal Oil	1,362	10.05%
IPP Thermal	671	4.96%
IPP Wind	330	2.44%
CEB Wind	342	2.53%
Mini Hydro *	1,002	7.40%
IPP Solar *	822	6.07%
IPP Waste heat	120	0.88%
Total	13,547	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 25, 2024

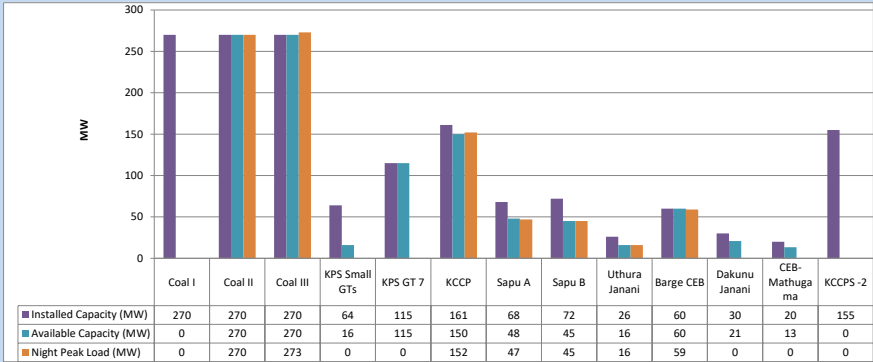


Available Generation is estimated based on plant availability at 6.00am on

October 26, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 25, 2024

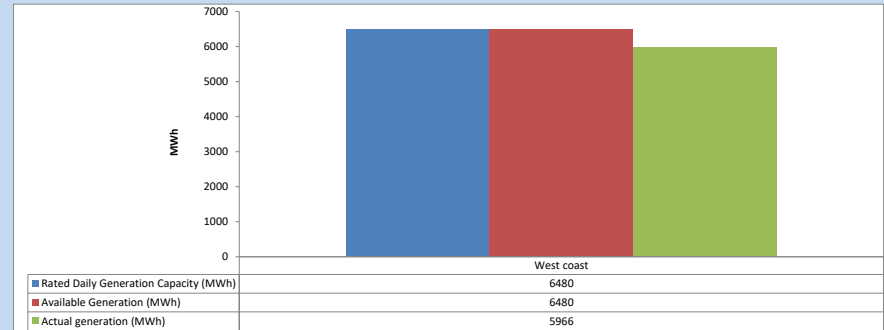


Plant availability is recorded at 6.00 am on

October 26, 2024

1.4 IPP owned Thermal Plant Dispatch

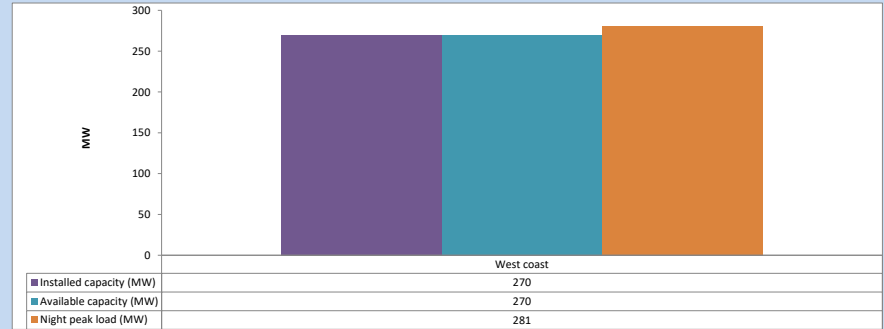
October 25, 2024



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

October 26, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

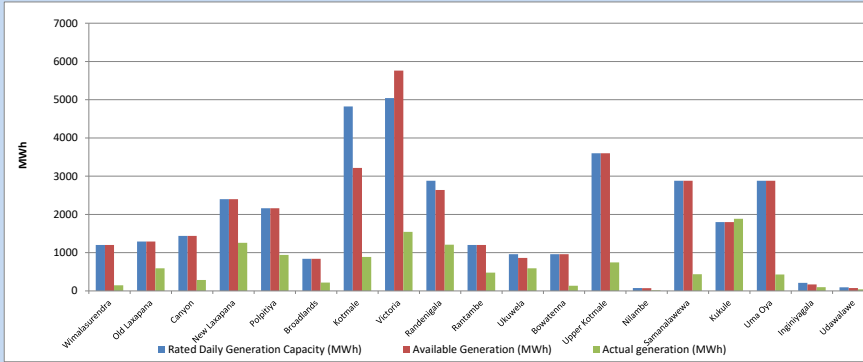


Plant availability is recorded at 6.00 am on

October 26, 2024

1.6 Major Hydro Plant Dispatch

October 25, 2024

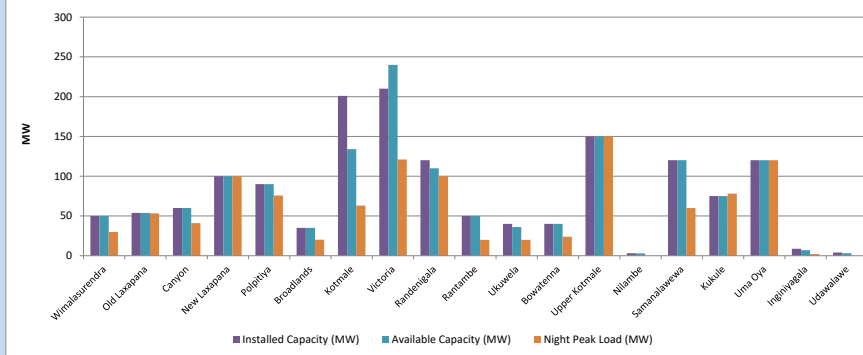


Available Generation is estimated based on plant availability at 6.00am on

October 26, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 25, 2024



Plant availability is recorded at 6.00 am on

October 26, 2024

1.8 Summary of Major Plant performance

October 25, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	146
Old Laxapana	54	54	53	591
Canyon	60	60	41	285
New Laxapana	100	100	100	1,256
Polpitiya	90	90	76	940
Broadlands	35	35	20	217
Kotmale	201	134	63	890
Victoria	210	240	121	1,545
Randenigala	120	110	100	1,208
Rantambe	50	50	20	480
Ukuwela	40	36	20	591
Bowatenna	40	40	24	135
Upper Kotmale	150	150	150	744
Nilambe	3	3	0	14
Samanalawewa	120	120	60	436
Kukule	75	75	78	1,885
Uma Oya	120	120	120	428
Inginigala	9	7	2	99
Udawalawe	4	3	0	41
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,486
Puttalam Coal III	270	270	273	6,570
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	152	3,570
Sapugaskanda A	68	48	47	883
Sapugaskanda B	72	45	45	998
Uthura Janani	26	16	16	228
Barge CEB	60	60	59	911
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	281	5,966
Sobadhanavi	220	0	0	0
Total	3,602	2,983	2,470	43,135

Note-

Plant availability is the availability recorded at 6 am on

October 26, 2024

1.9 Contribution to the Night Peak in MW

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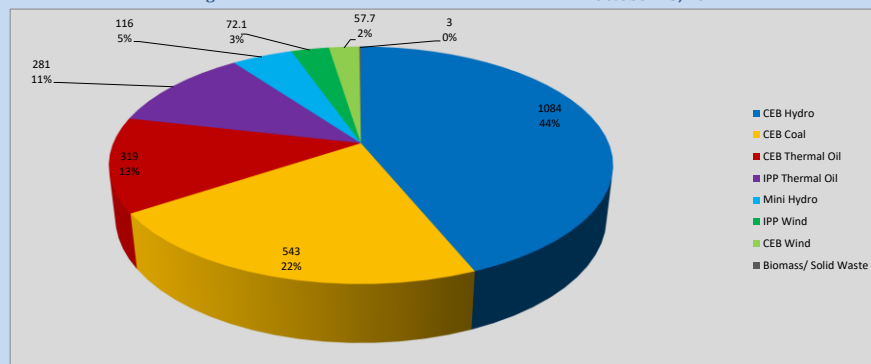


Table 05

CEB Hydro	1084	MW
CEB Coal	543	MW
CEB Thermal Oil	319	MW
IPP Thermal Oil	281	MW
Mini Hydro (Telemetered)	116	MW
IPP Wind	72.1	MW
CEB Wind	57.7	MW
Biomass/ Solid Waste	3	MW

Recorded Peak Demand Data

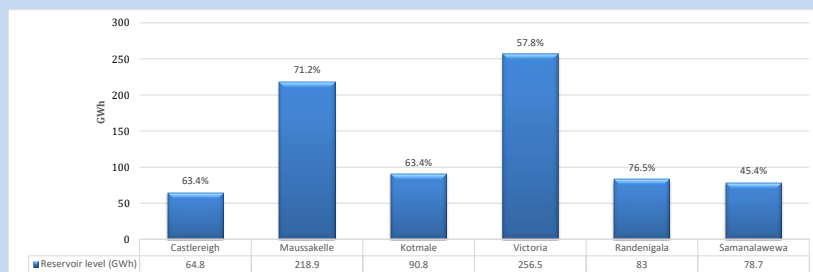
Table 06

Night Peak*	2,476	MW
Day Peak Maximum Demand	2,208	MW
Day Peak Minimum Demand	1,569	MW
Off Peak Minimum Demand	1,375	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 26, 2024



Total Reservoir Level
% of Total capacity

792.7 GWh
62.0%

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

October 25, 2024

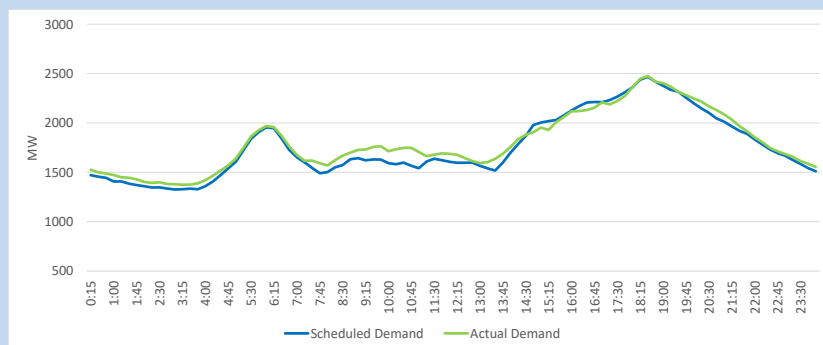
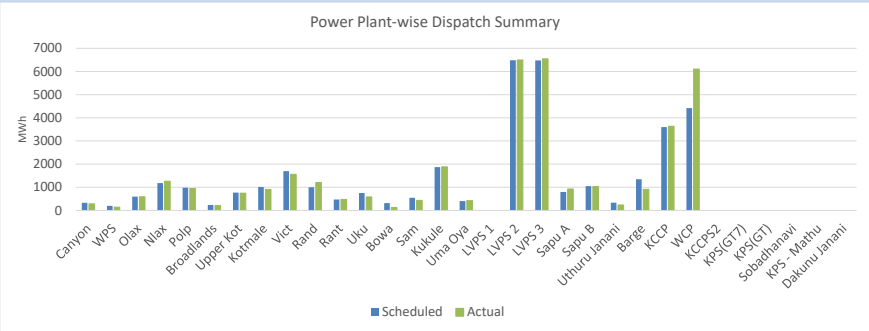


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,380	11,796	(584)
CEB Coal	12,957	13,041	84
CEB Thermal Oil	7,132	6,745	(387)
IPP Thermal Oil	4,417	6,103	1,686
IPPP (Telemetered)	5,325	5,518	193
Total	42,210	43,202	993

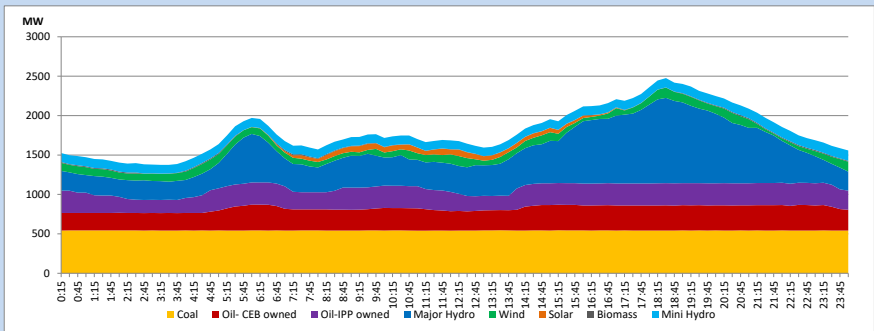
1.12 Power Plant-wise Dispatch Summary

October 25, 2024



1.13 Daily Load Curve

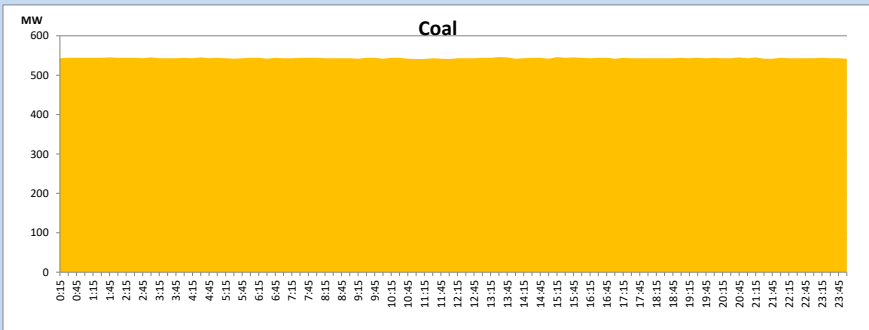
October 25, 2024



Solar and wind data is based on Telemetered Power Stations only

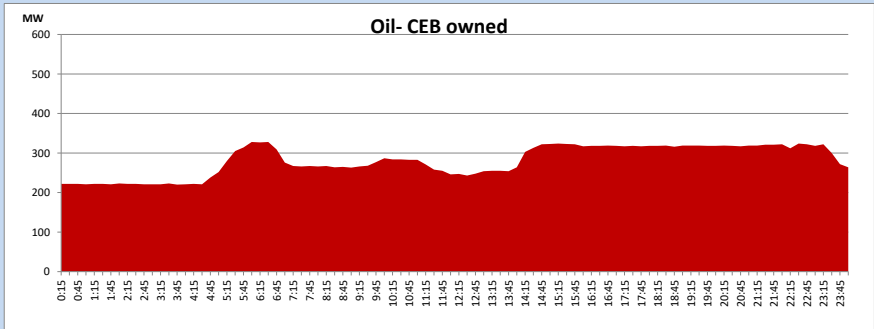
Coal Generation during

October 25, 2024



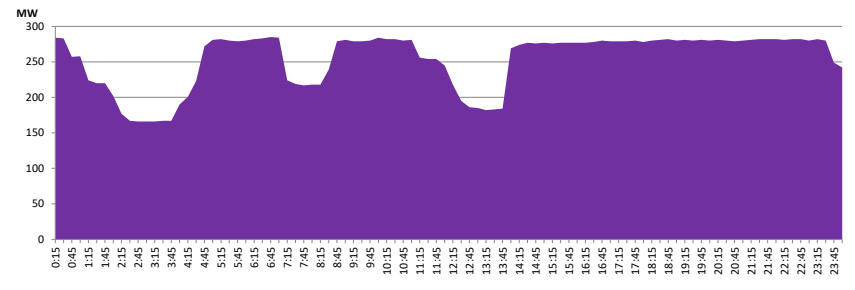
CEB Oil Plant Generation during

October 25, 2024



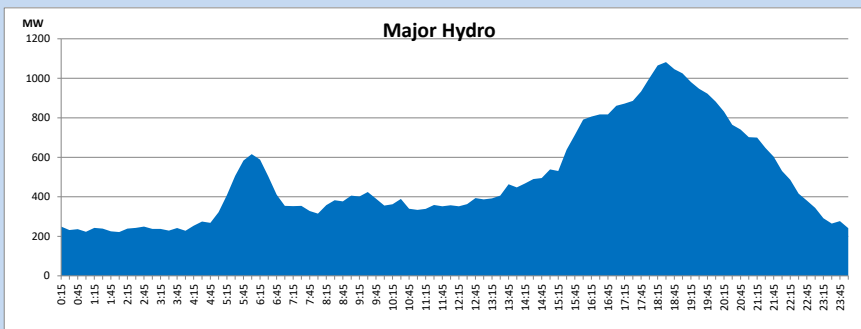
IPP Oil Plant Generation during

October 25, 2024



Major Hydro Generation during

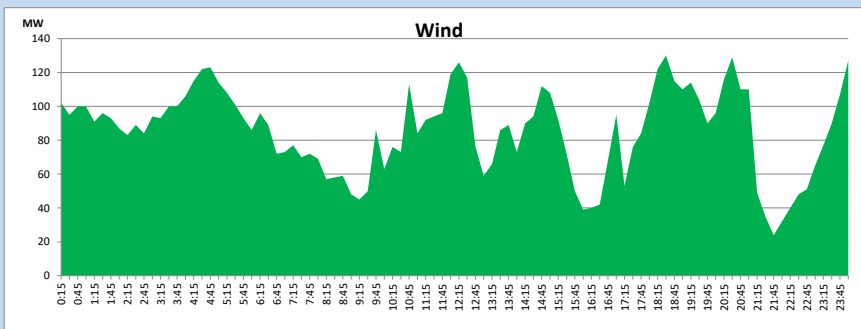
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Wind Generation during

October 25, 2024

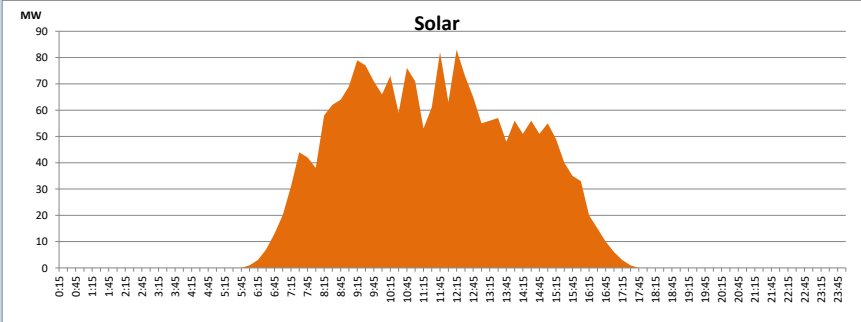
Based on Telemetered Power Stations only



Solar Generation during

October 25, 2024

Based on Telemetered Power Stations only

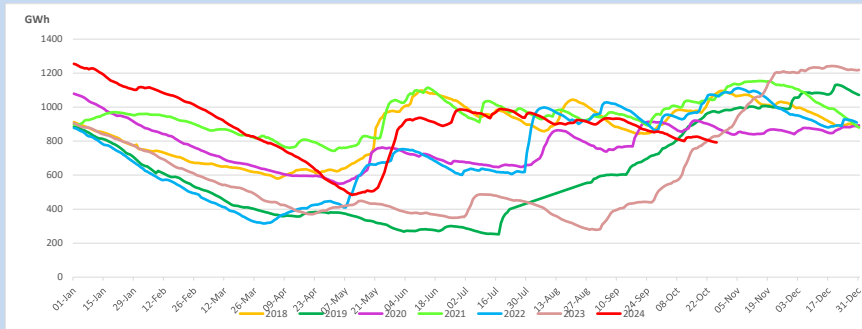


1.14 Major Incidents reported during the day

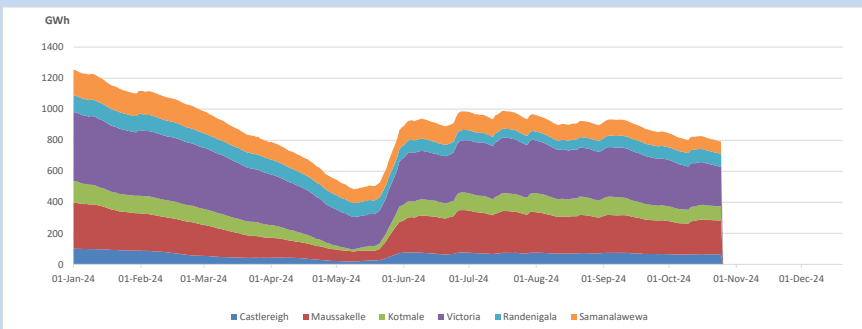
October 25, 2024

- 1) Kotmale Unit 03 was released for annual maintenance and runner bolt replacement at 08:08hrs.
- 2) Kesbewa 132/33kV T/F 01 tripped at 14:41hrs due to the operation of O/C & E/F protection. The T/F was normalized at 15:10hrs.
- 3) Kukule pond spilling started at 06:05hrs (26.10.2024) and continues to the present hour.

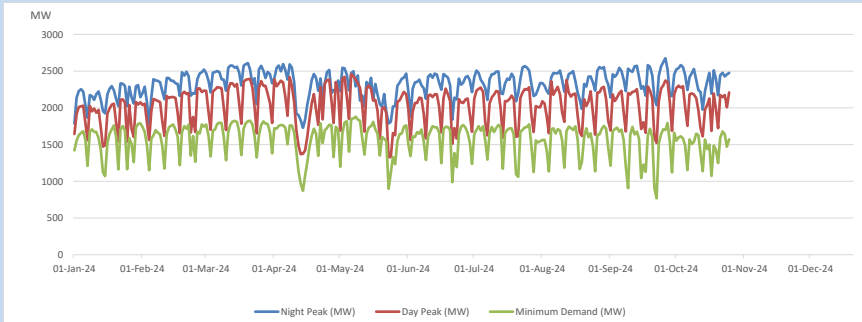
2. Comparison of Total Reservoir Storage Levels with Past Years



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

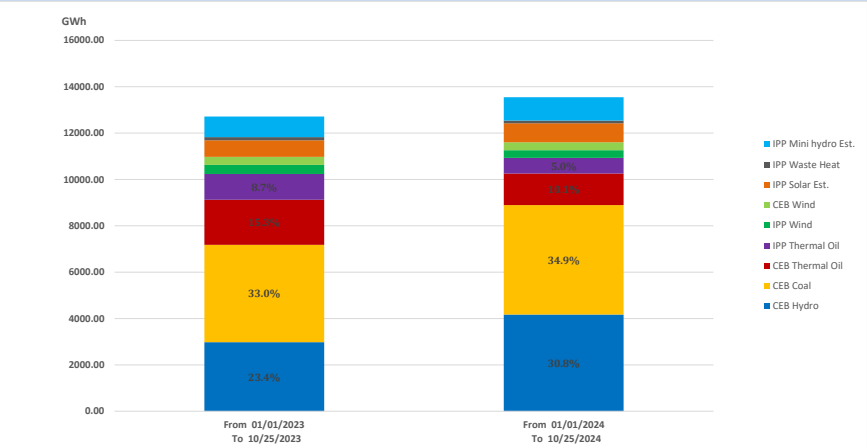


4. Variation of Demand during the current year



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 10/25/2023 12714 GWh
From 01/01/2024 To 10/25/2024 13547 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)	420
Rooftop Solar (LT Bulk)	317
Rooftop Solar (HT Bulk)	98

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