

Generation and Reservoirs Statistics

October 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 2, 2024

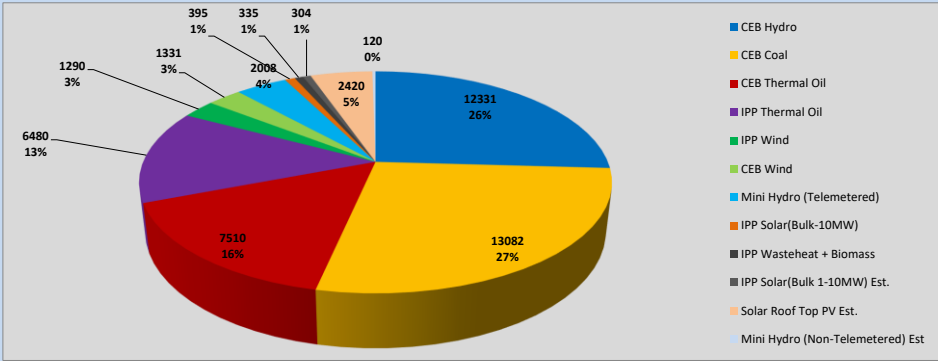


Table 01

	Generation (MWh)
CEB Hydro	12331
CEB Coal	13082
CEB Thermal Oil	7510
IPP Thermal Oil	6480
IPP Wind	1290
CEB Wind	1331
Mini Hydro (Telemetered)	2008
IPP Solar (Bulk)	395
IPP Waste heat + Biomass	335
Total Generation (Excluding estimated figures)	44,762
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	120
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	47,606

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	26	27.34%
CEB Coal	26	27.83%
CEB Thermal Oil	15	15.47%
IPP Thermal	13	13.88%
IPP Wind	2	1.66%
CEB Wind	2	1.68%
Mini Hydro *	4	4.76%
IPP Solar *	6	6.66%
IPP Waste heat + BMP	1	0.71%
Total	94	

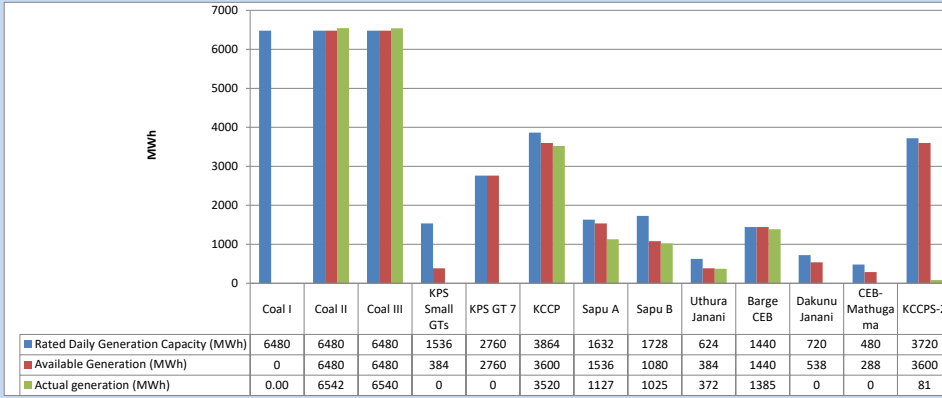
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,879	30.95%
CEB Coal	4,427	35.32%
CEB Thermal Oil	1,216	9.70%
IPP Thermal	576	4.60%
IPP Wind	313	2.50%
CEB Wind	320	2.55%
Mini Hydro *	934	7.45%
IPP Solar *	752	6.00%
IPP Waste heat	115	0.92%
Total	12,531	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 2, 2024

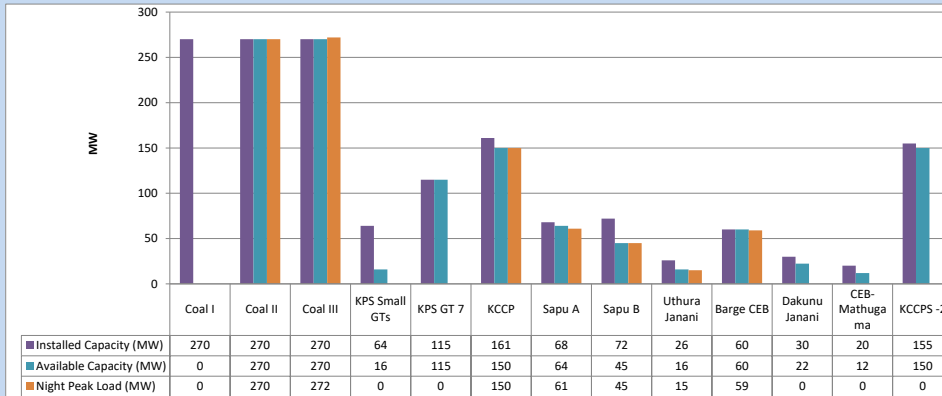


Available Generation is estimated based on plant availability at 6.00am on

October 3, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 2, 2024

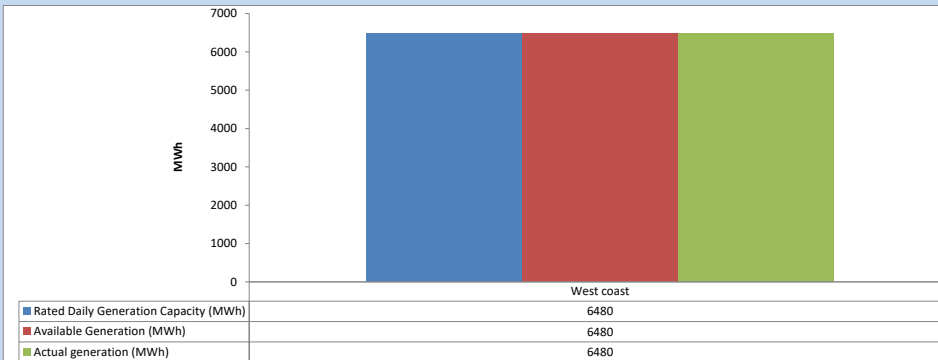


Plant availability is recorded at 6.00 am on

October 3, 2024

1.4 IPP owned Thermal Plant Dispatch

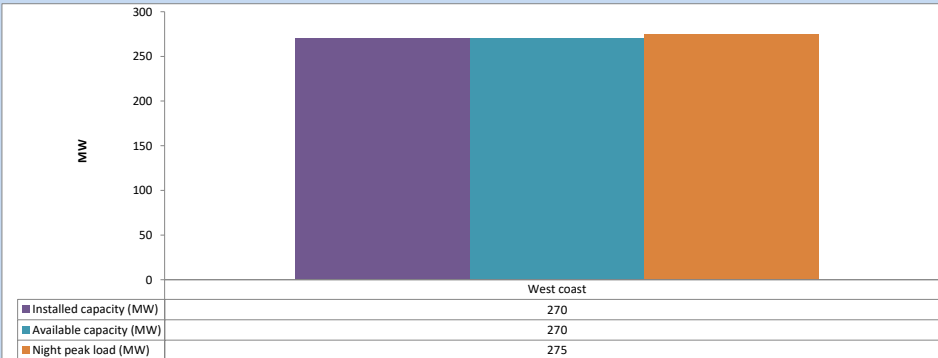
October 2, 2024



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

October 3, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

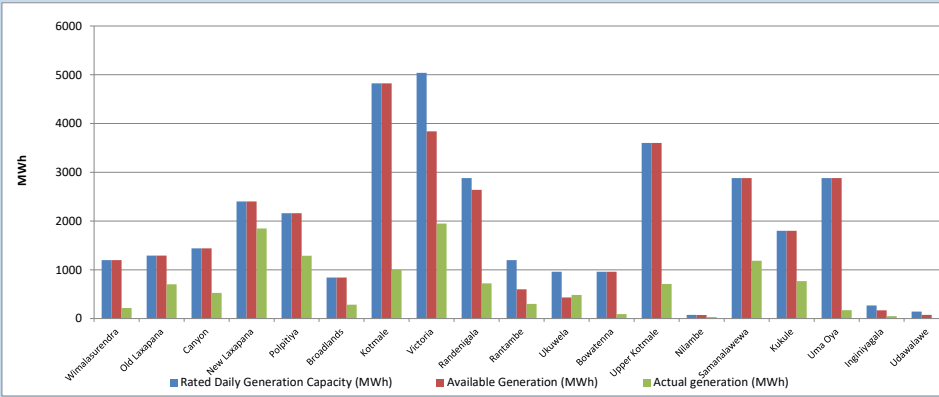


Plant availability is recorded at 6.00 am on

October 3, 2024

1.6 Major Hydro Plant Dispatch

October 2, 2024

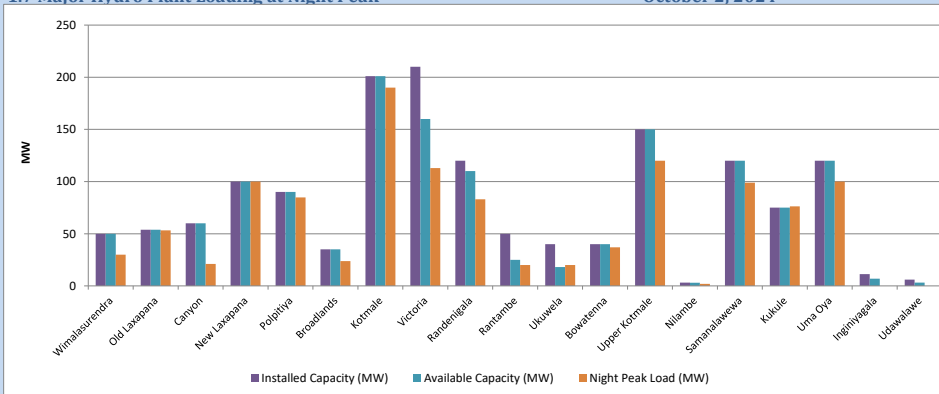


Available Generation is estimated based on plant availability at 6.00am on

October 3, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 2, 2024



Plant availability is recorded at 6.00 am on

October 3, 2024

1.8 Summary of Major Plant performance

October 2, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	216
Old Laxapana	54	54	53	702
Canyon	60	60	21	525
New Laxapana	100	100	100	1,849
Polpitiya	90	90	85	1,290
Broadlands	35	35	24	284
Kotmale	201	201	190	1,000
Victoria	210	160	113	1,949
Randenigala	120	110	83	721
Rantambe	50	25	20	302
Ukuwela	40	18	20	483
Bowatenna	40	40	37	91
Upper Kotmale	150	150	120	711
Nilambe	3	3	2	30
Samanalawewa	120	120	99	1,186
Kukule	75	75	76	767
Uma Oya	120	120	100	172
Inginipagala	11	7	0	51
Udalawawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,542
Puttalam Coal III	270	270	272	6,540
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,520
Sapugaskanda A	68	64	61	1,127
Sapugaskanda B	72	45	45	1,025
Uthura Janani	26	16	15	372
Barge CEB	60	60	59	1,385
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
KCCPS -2	155	150	0	81
West Coast	270	270	275	6,480
Sobadhanavi	220	212	0	0
Total	3,606	2,881	2,538	44,760

Note- Plant availability is the availability recorded at 6 am on

October 3, 2024

1.9 Contribution to the Night Peak in MW

October 2, 2024

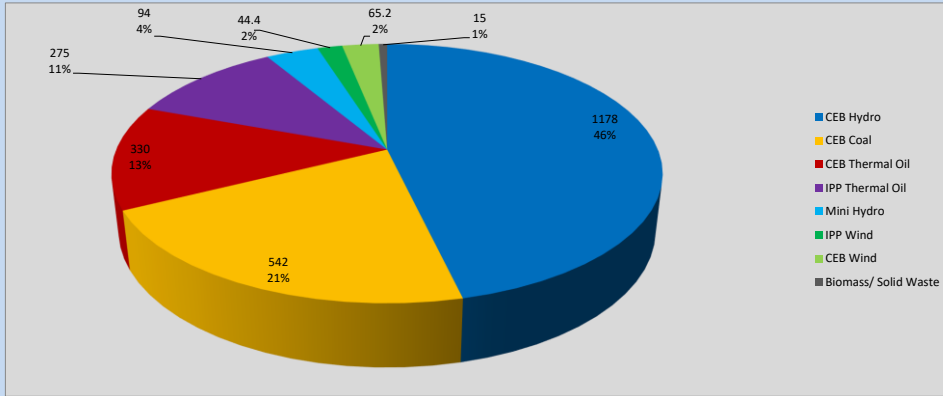


Table 05

CEB Hydro	1178	MW
CEB Coal	542	MW
CEB Thermal Oil	330	MW
IPP Thermal Oil	275	MW
Mini Hydro (Telemetered)	94	MW
IPP Wind	44.4	MW
CEB Wind	65.2	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

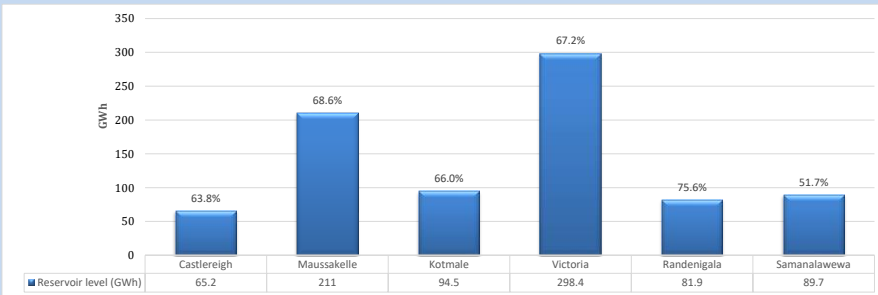
Table 06

Night Peak*	2,543	MW
Day Peak Maximum Demand	2,302	MW
Day Peak Minimum Demand	1,597	MW
Off Peak Minimum Demand	1,465	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 3, 2024



Total Reservoir Level 840.7 GWh
% of Total capacity 65.7%

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

October 2, 2024

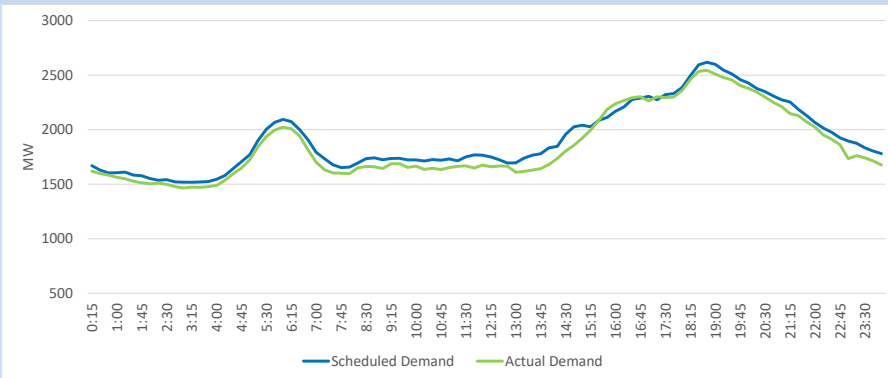
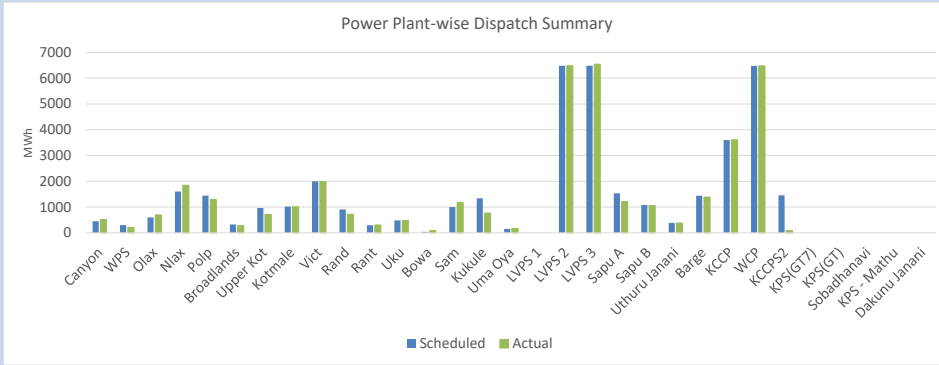


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,904	12,267	(638)
CEB Coal	12,960	13,025	65
CEB Thermal Oil	9,493	7,725	(1,768)
IPP Thermal Oil	6,476	6,480	4
NCRE (Telemetered)	4,154	4,868	714
Total	45,987	44,364	(1,623)

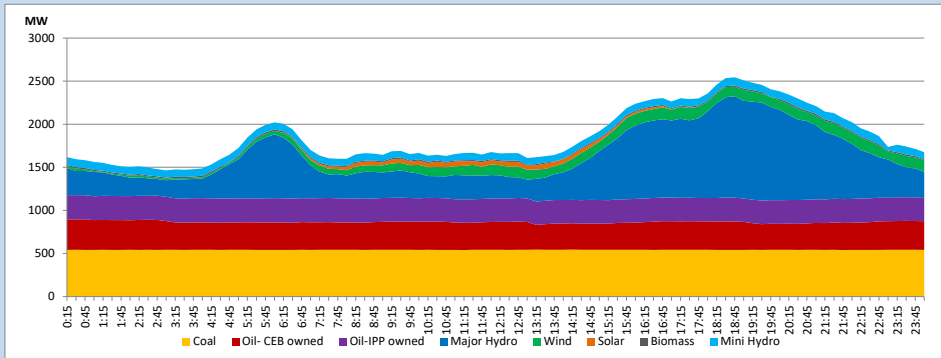
1.12 Power Plant-wise Dispatch Summary

October 2, 2024



1.13 Daily Load Curve

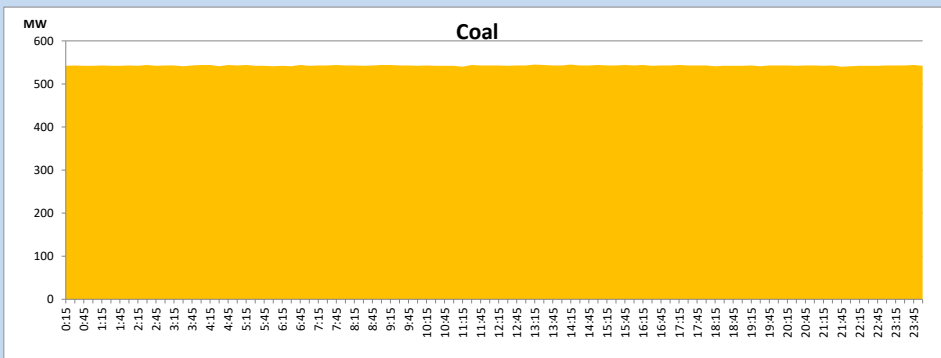
October 2, 2024



Solar and wind data is based on Telemetered Power Stations only

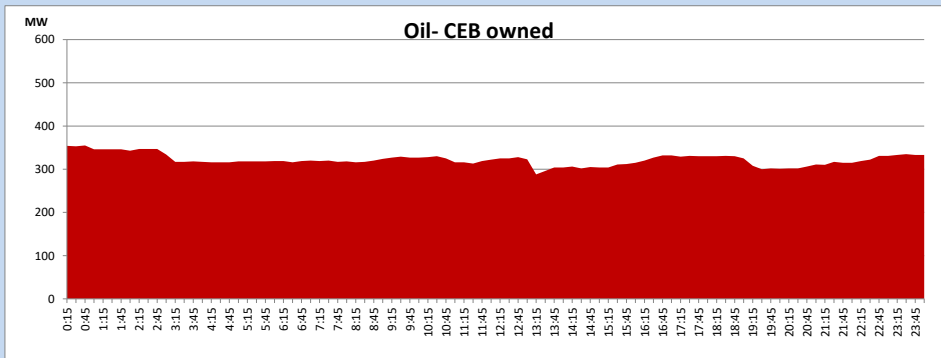
Coal Generation during

October 2, 2024

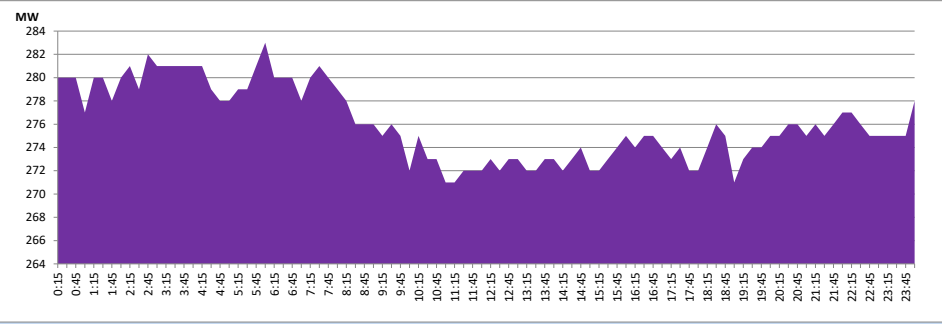


CEB Oil Plant Generation during

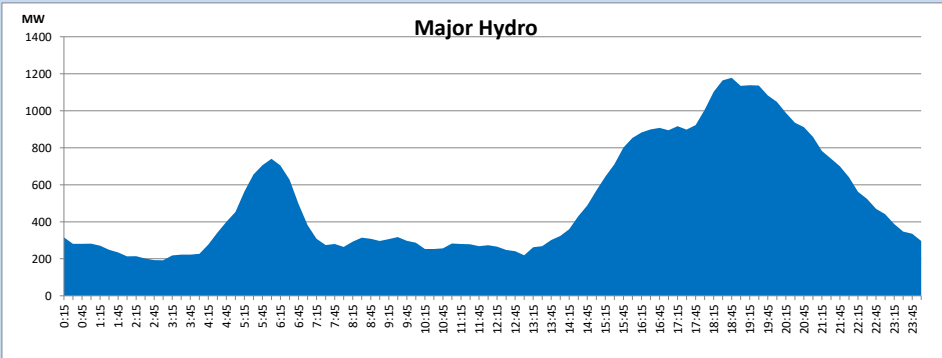
October 2, 2024



IPP Oil Plant Generation during October 2, 2024

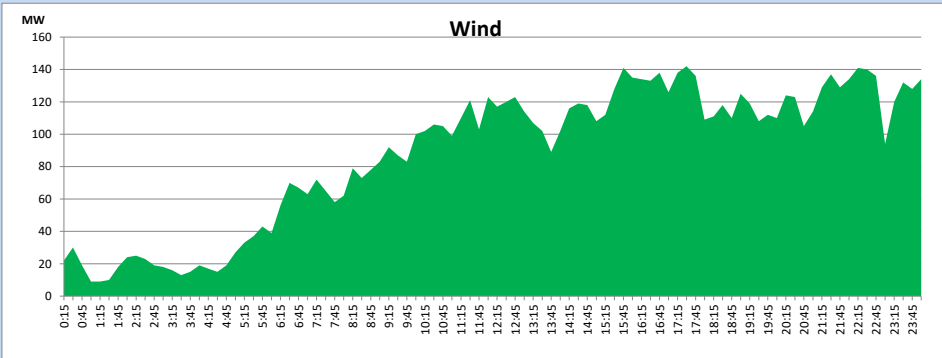


Major Hydro Generation during October 2, 2024



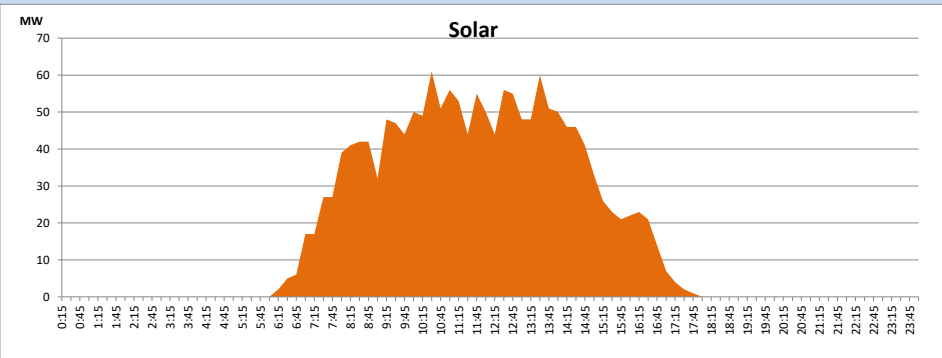
Wind Generation during October 2, 2024

Based on Telemetered Power Stations only



Solar Generation during October 2, 2024

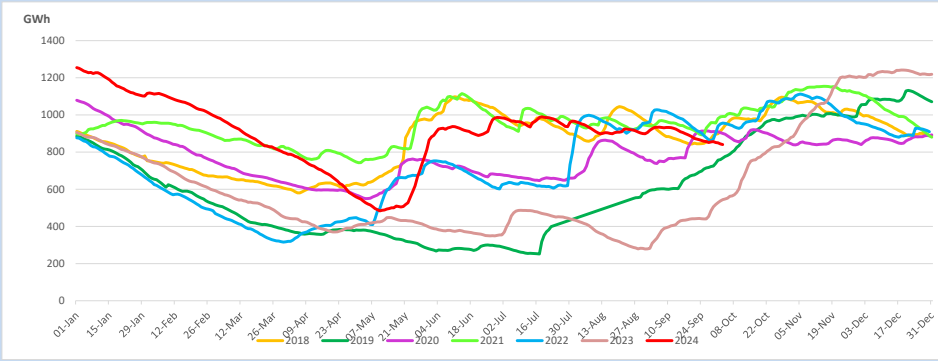
Based on Telemetered Power Stations only



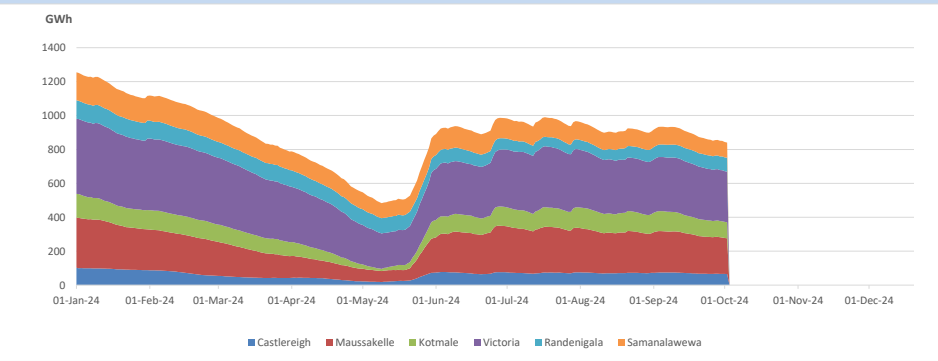
1.14 Major Incidents reported during the day October 2, 2024

- 1) KCCPS-2 which was made unavailable from 02:38hrs, was made available for generation at 11:55hrs.

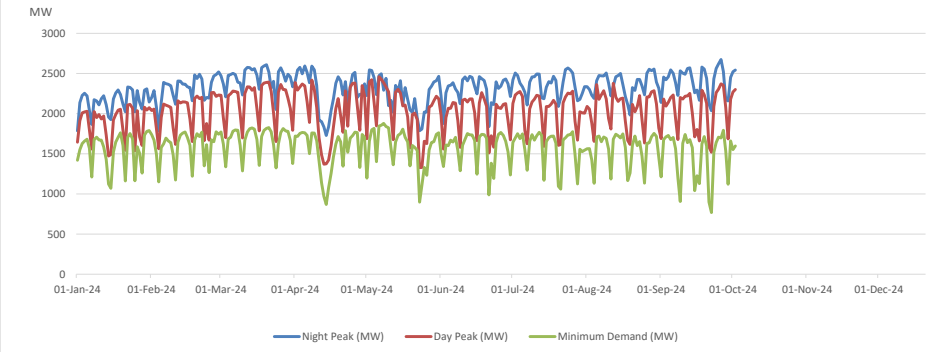
2. Comparison of Total Reservoir Storage Levels with Past Years



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

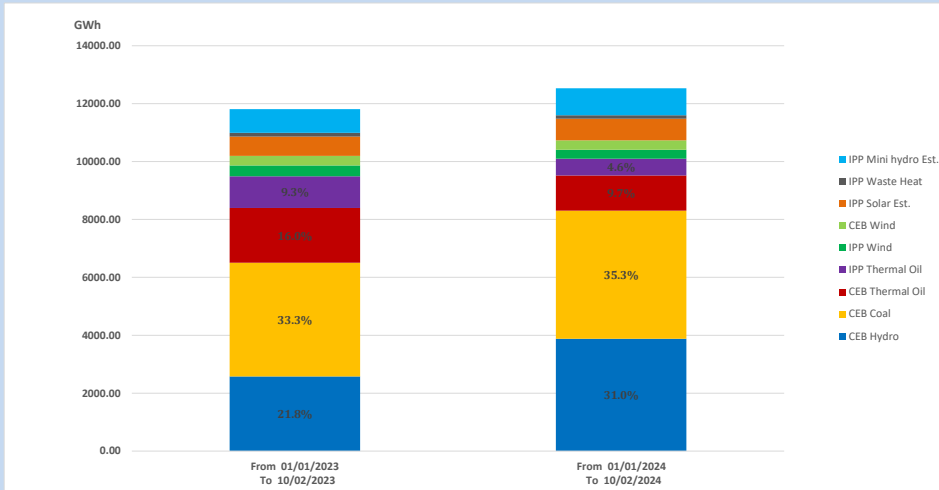


4. Variation of Demand during the current year



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 10/02/2023

11812 GWh

From 01/01/2024 To 10/02/2024

12531 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)

Unserviced 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	1535
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	490
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	343
Rooftop Solar (LT Bulk)	289
Rooftop Solar (HT Bulk)	84

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