

Generation and Reservoirs Statistics

October 4, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 4, 2024

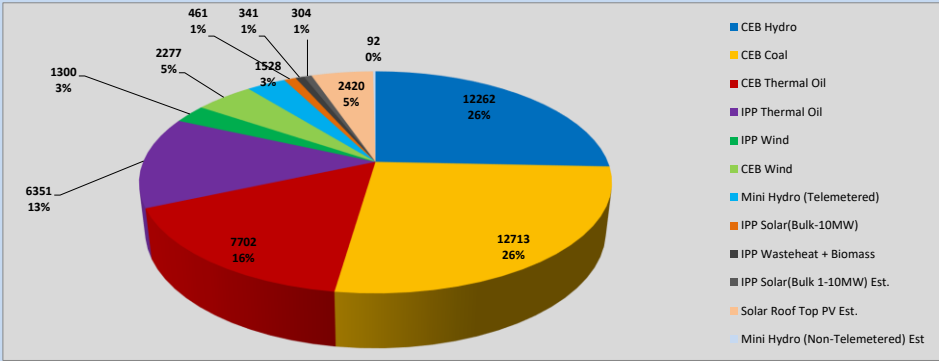


Table 01

	Generation (MWh)
CEB Hydro	12262
CEB Coal	12713
CEB Thermal Oil	7702
IPP Thermal Oil	6351
IPP Wind	1300
CEB Wind	2277
Mini Hydro (Telemetered)	1528
IPP Solar (Bulk)	461
IPP Waste heat + Biomass	341
Total Generation (Excluding estimated figures)	44,935
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	92
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	47,751

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	50	26.25%
CEB Coal	52	27.30%
CEB Thermal Oil	30	15.82%
IPP Thermal	26	13.58%
IPP Wind	5	2.44%
CEB Wind	6	3.15%
Mini Hydro *	8	4.17%
IPP Solar *	13	6.59%
IPP Waste heat + BMP	1	0.69%
Total	190	

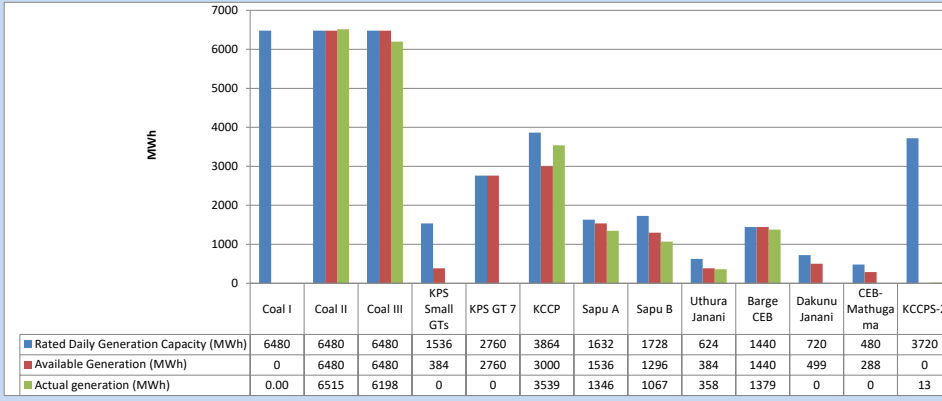
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,903	30.91%
CEB Coal	4,452	35.26%
CEB Thermal Oil	1,231	9.75%
IPP Thermal	589	4.66%
IPP Wind	316	2.50%
CEB Wind	324	2.57%
Mini Hydro *	938	7.42%
IPP Solar *	759	6.01%
IPP Waste heat	116	0.92%
Total	12,627	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 4, 2024

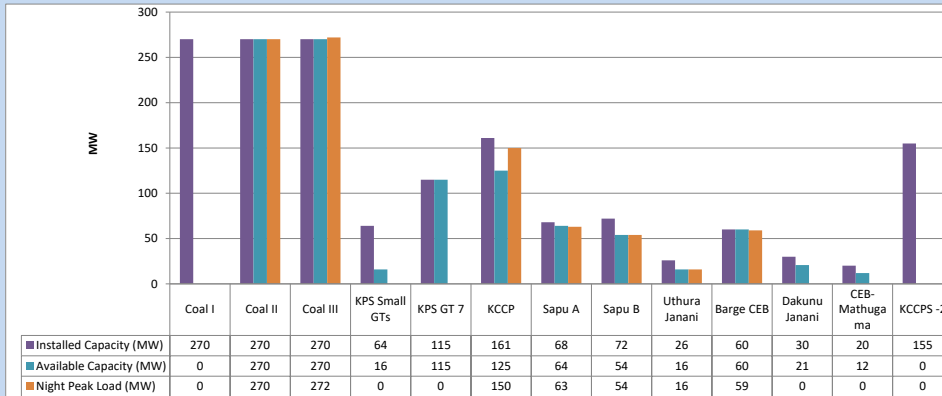


Available Generation is estimated based on plant availability at 6.00am on

October 5, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 4, 2024

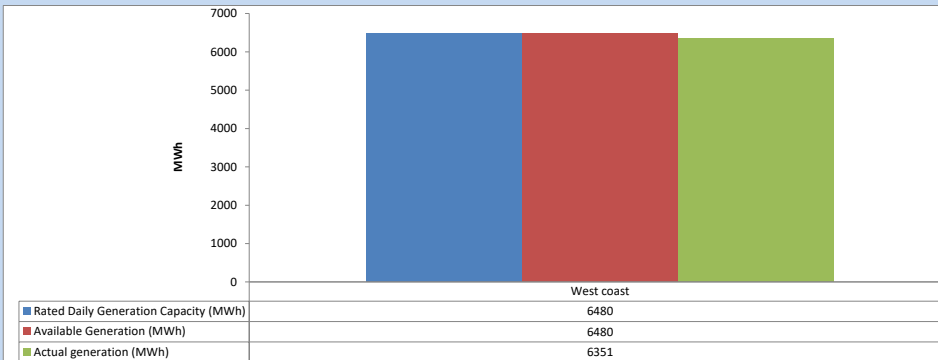


Plant availability is recorded at 6.00 am on

October 5, 2024

1.4 IPP owned Thermal Plant Dispatch

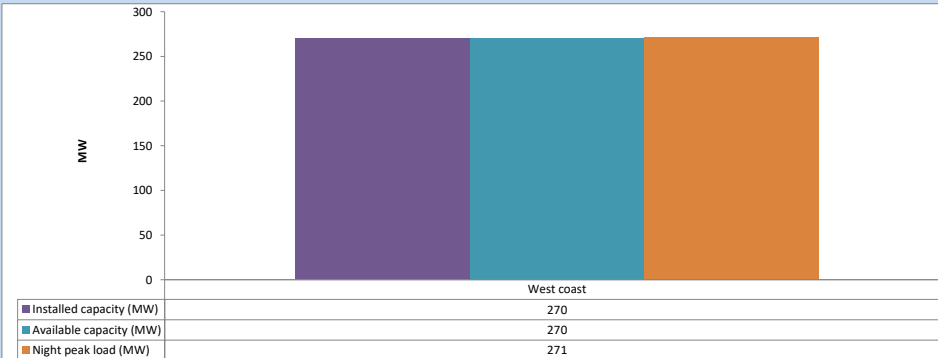
October 4, 2024



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

October 5, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

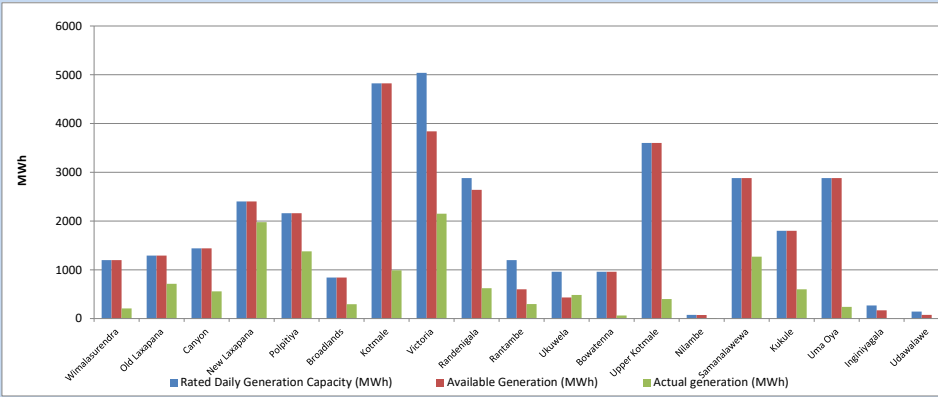


Plant availability is recorded at 6.00 am on

October 5, 2024

1.6 Major Hydro Plant Dispatch

October 4, 2024

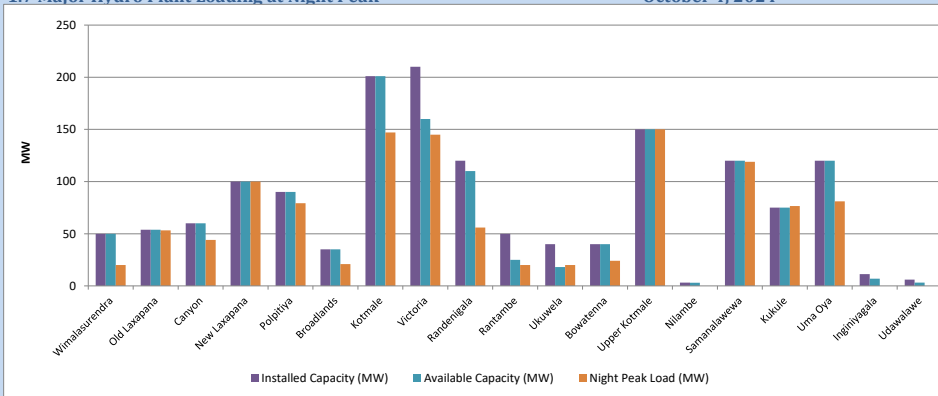


Available Generation is estimated based on plant availability at 6.00am on

October 5, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 4, 2024



Plant availability is recorded at 6.00 am on

October 5, 2024

1.8 Summary of Major Plant performance

October 4, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	209
Old Laxapana	54	54	53	713
Canyon	60	60	44	558
New Laxapana	100	100	100	1,976
Polpitiya	90	90	79	1,380
Broadlands	35	35	21	296
Kotmale	201	201	147	990
Victoria	210	160	145	2,152
Randenigala	120	110	56	622
Rantambe	50	25	20	297
Ukuwela	40	18	20	484
Bowatenna	40	40	24	62
Upper Kotmale	150	150	150	400
Nilambe	3	3	0	12
Samanalawewa	120	120	119	1,270
Kukule	75	75	77	600
Uma Oya	120	120	81	240
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,515
Puttalam Coal III	270	270	272	6,198
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	125	150	3,539
Sapugaskanda A	68	64	63	1,346
Sapugaskanda B	72	54	54	1,067
Uthura Janani	26	16	16	358
Barge CEB	60	60	59	1,379
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	12	0	0
KCCPS -2	155	0	0	13
West Coast	270	270	271	6,351
Sobadhanavi	220	212	0	0
Total	3,606	2,714	2,549	44,934

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

October 5, 2024

1.9 Contribution to the Night Peak in MW

October 4, 2024

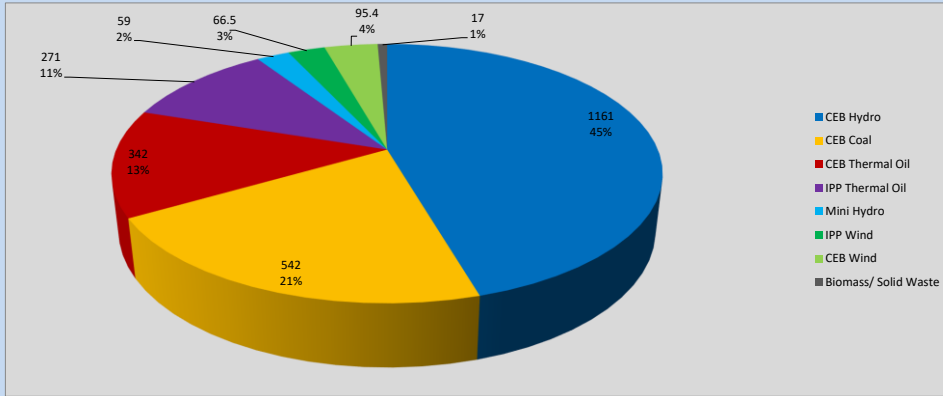


Table 05

CEB Hydro	1161	MW
CEB Coal	542	MW
CEB Thermal Oil	342	MW
IPP Thermal Oil	271	MW
Mini Hydro (Telemetered)	59	MW
IPP Wind	66.5	MW
CEB Wind	95.4	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

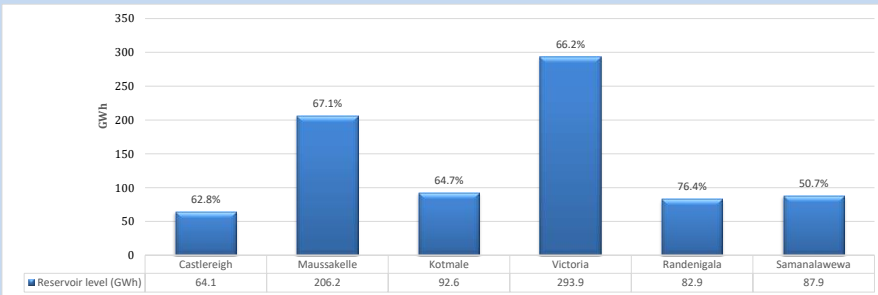
Table 06

Night Peak*	2,554	MW
Day Peak Maximum Demand	2,294	MW
Day Peak Minimum Demand	1,583	MW
Off Peak Minimum Demand	1,504	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 5, 2024



Total Reservoir Level: 827.6 GWh
 % of Total capacity: 64.7%

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

October 4, 2024

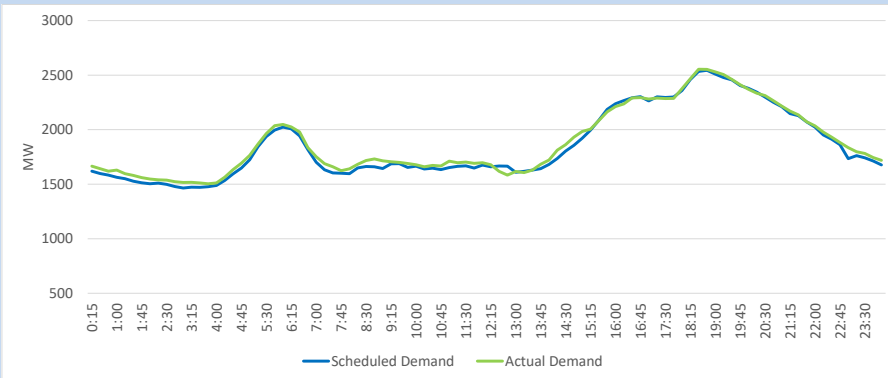
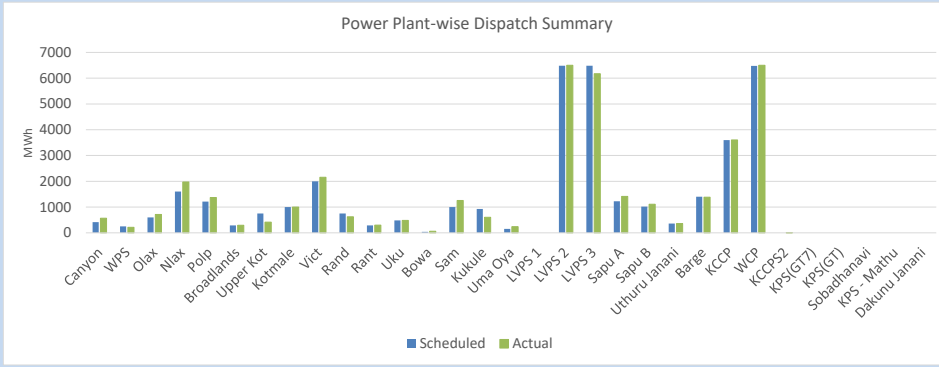


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,753	12,253	500
CEB Coal	12,960	12,672	(288)
CEB Thermal Oil	7,602	7,875	272
IPP Thermal Oil	6,478	6,500	23
NCRE (Telemetered)	5,716	5,816	100
Total	44,508	45,116	608

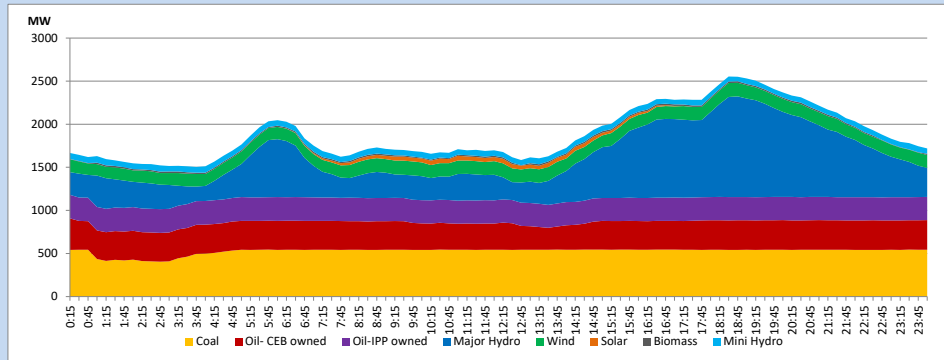
1.12 Power Plant-wise Dispatch Summary

October 4, 2024



1.13 Daily Load Curve

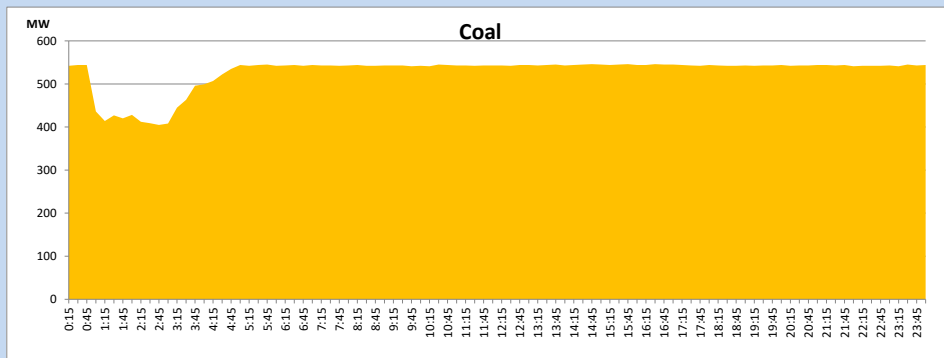
October 4, 2024



Solar and wind data is based on Telemetered Power Stations only

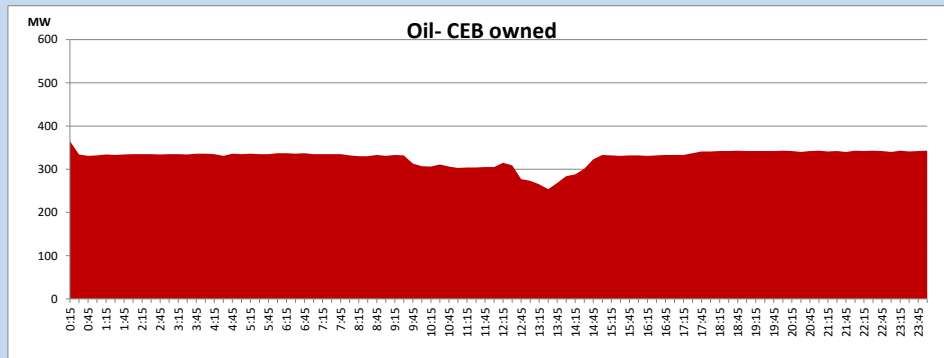
Coal Generation during

October 4, 2024

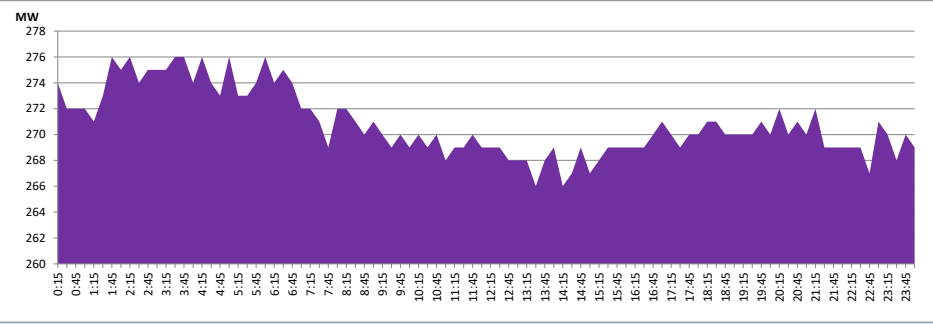


CEB Oil Plant Generation during

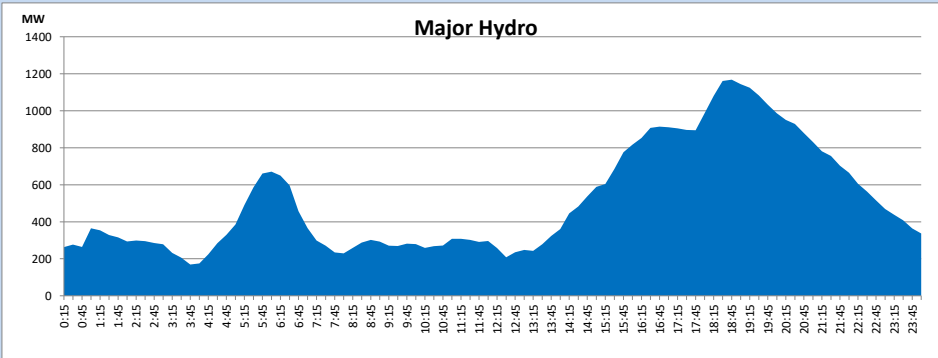
October 4, 2024



IPP Oil Plant Generation during October 4, 2024

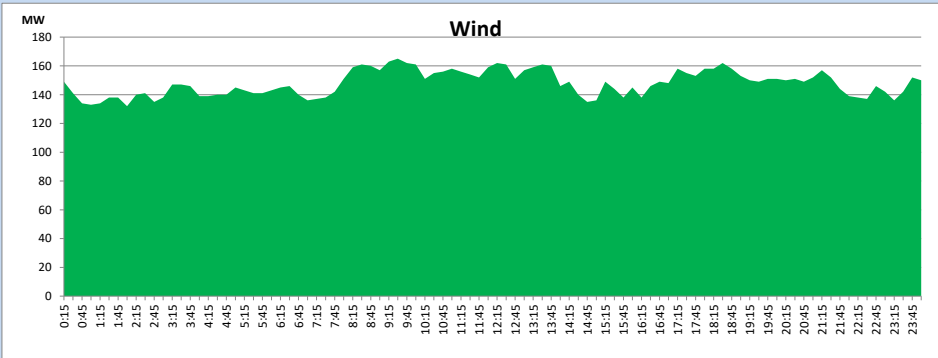


Major Hydro Generation during October 4, 2024



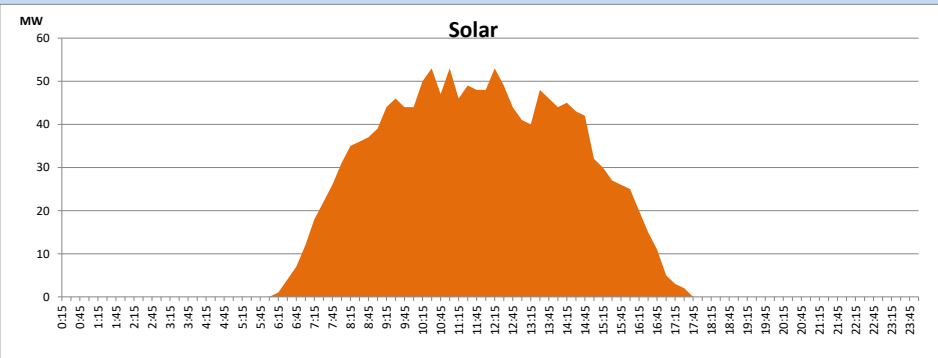
Wind Generation during October 4, 2024

Based on Telemetered Power Stations only



Solar Generation during October 4, 2024

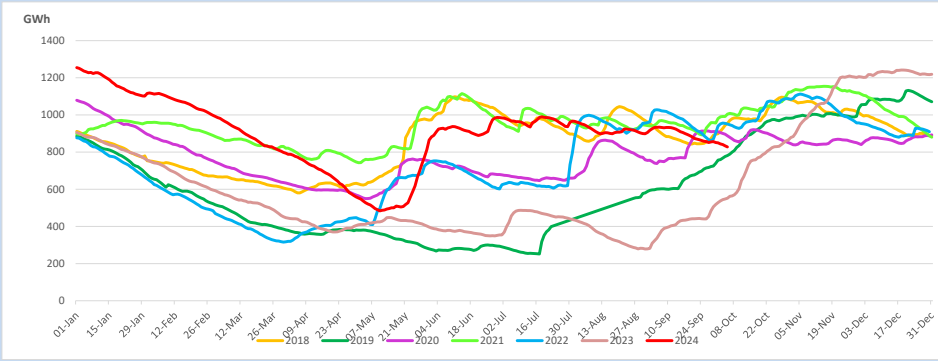
Based on Telemetered Power Stations only



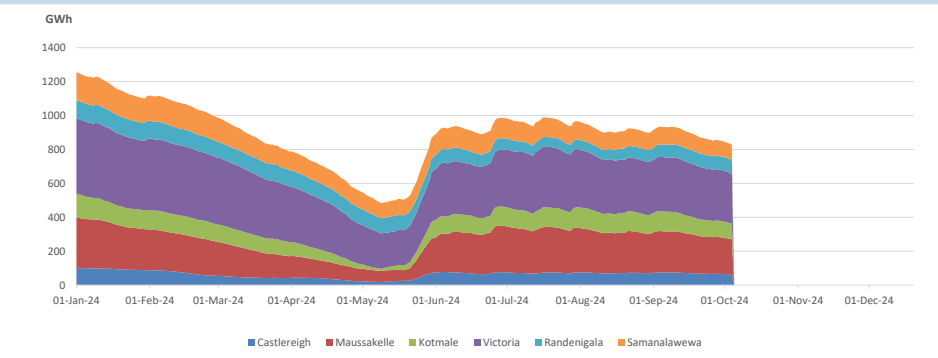
1.14 Major Incidents reported during the day October 4, 2024

- 1) Randenigala generator unit 02 made unavailable for the night peak at 18:00hrs due to a CB failure. The unit resumed generation at 19:09hrs.
- 2) KCCP started to de-load the plant at 04:07hrs (05.10.2024) due to a cooling fan failure and the plant de-loaded to 120MW by 04:55hrs. The plant is yet to resume full load.

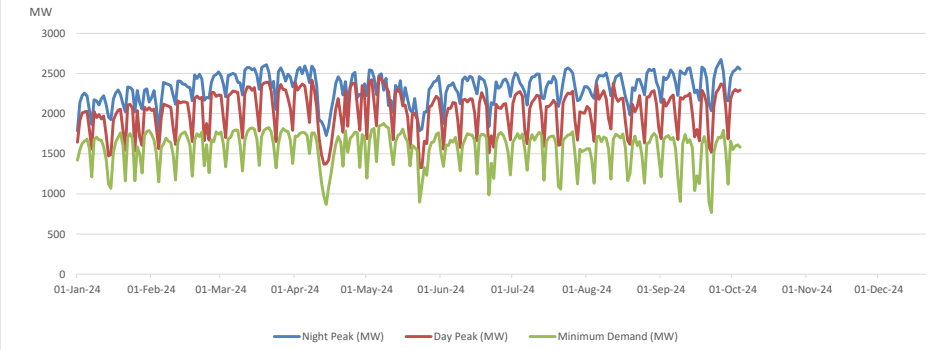
2. Comparison of Total Reservoir Storage Levels with Past Years



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

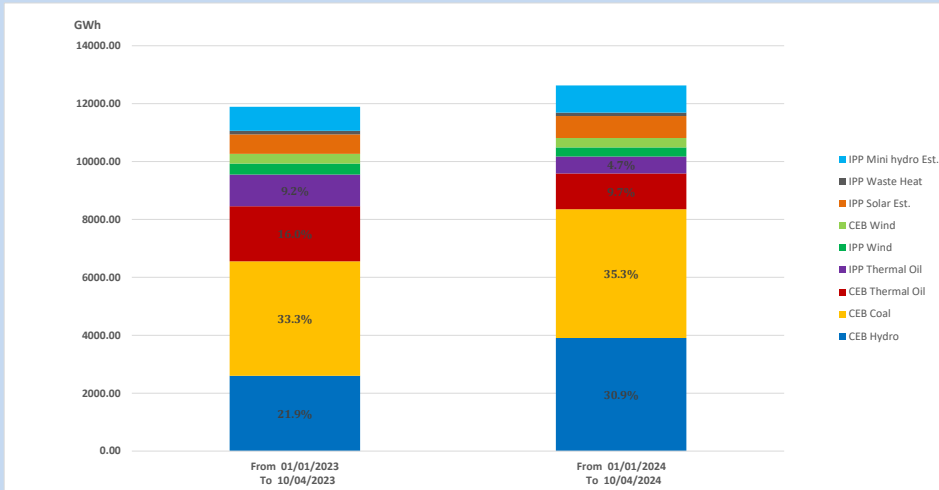


4. Variation of Demand during the current year



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 10/04/2023

11891 GWh

From 01/01/2024 To 10/04/2024

12627 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