

Generation and Reservoirs Statistics

October 9, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 9, 2024

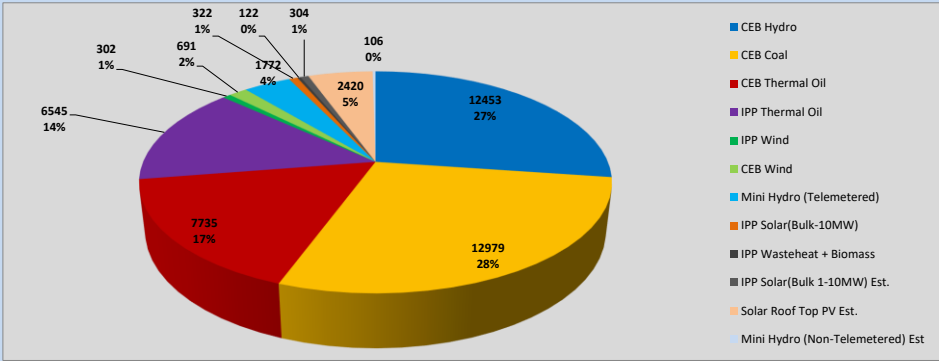


Table 01

	Generation (MWh)
CEB Hydro	12453
CEB Coal	12979
CEB Thermal Oil	7735
IPP Thermal Oil	6545
IPP Wind	302
CEB Wind	691
Mini Hydro (Telemetered)	1772
IPP Solar (Bulk)	322
IPP Waste heat + Biomass	122
Total Generation (Excluding estimated figures)	42,921
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	106
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	45,751

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	111	26.94%
CEB Coal	117	28.29%
CEB Thermal Oil	67	16.15%
IPP Thermal	53	12.84%
IPP Wind	7	1.77%
CEB Wind	10	2.41%
Mini Hydro *	18	4.27%
IPP Solar *	28	6.73%
IPP Waste heat + BMP	2	0.60%
Total	412	

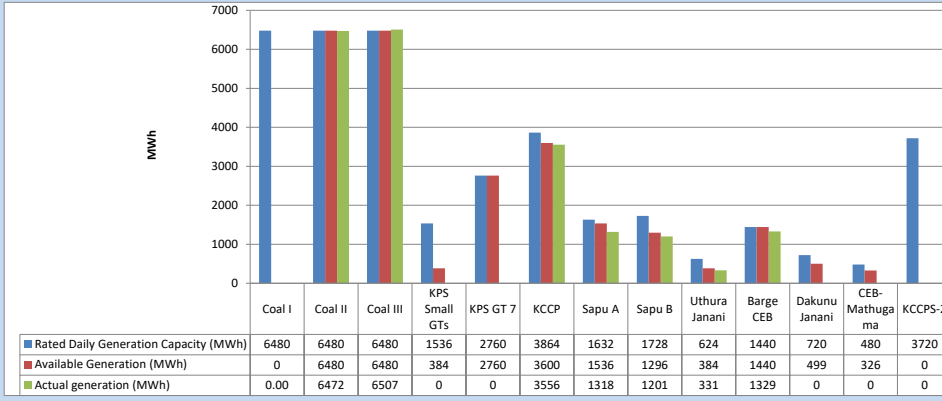
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,964	30.85%
CEB Coal	4,517	35.15%
CEB Thermal Oil	1,268	9.87%
IPP Thermal	616	4.79%
IPP Wind	319	2.48%
CEB Wind	328	2.55%
Mini Hydro *	947	7.37%
IPP Solar *	774	6.02%
IPP Waste heat	117	0.91%
Total	12,850	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 9, 2024

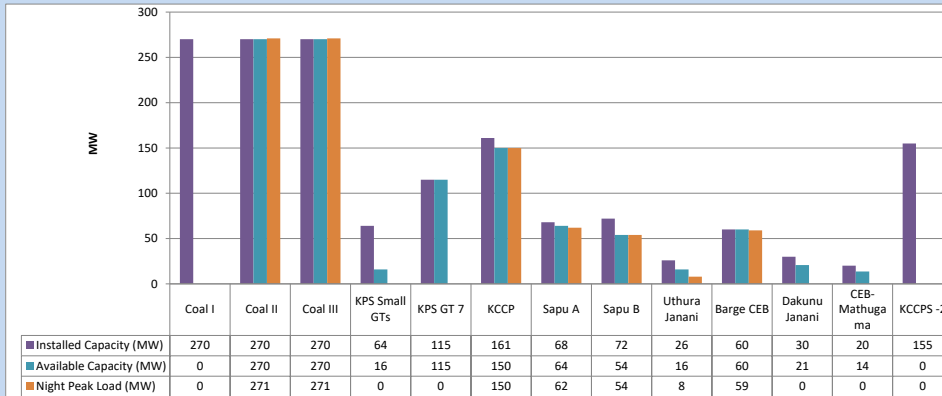


Available Generation is estimated based on plant availability at 6.00am on

October 10, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

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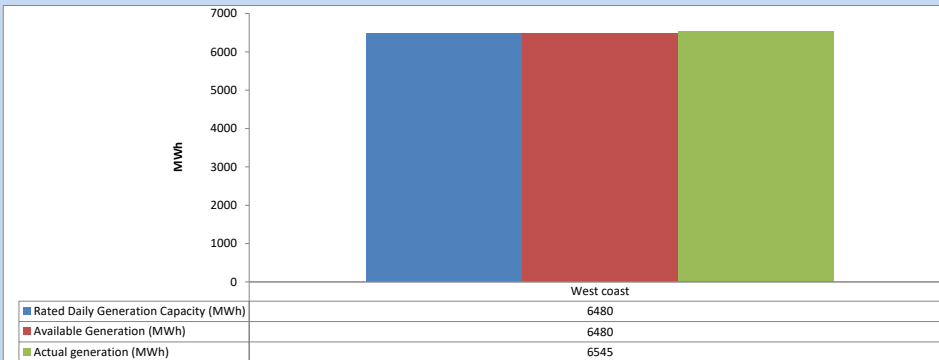


Plant availability is recorded at 6.00 am on

October 10, 2024

1.4 IPP owned Thermal Plant Dispatch

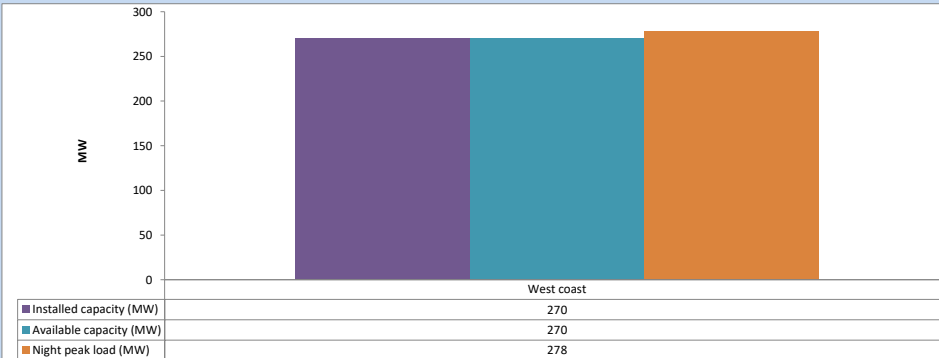
October 9, 2024



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

October 10, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

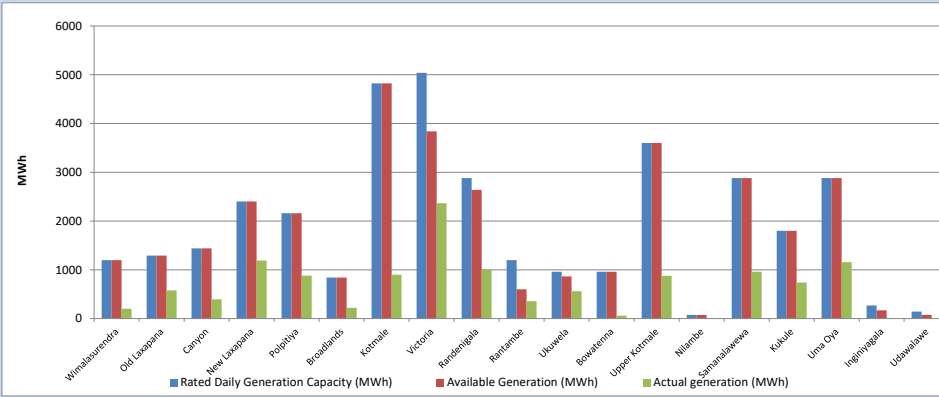


Plant availability is recorded at 6.00 am on

October 10, 2024

1.6 Major Hydro Plant Dispatch

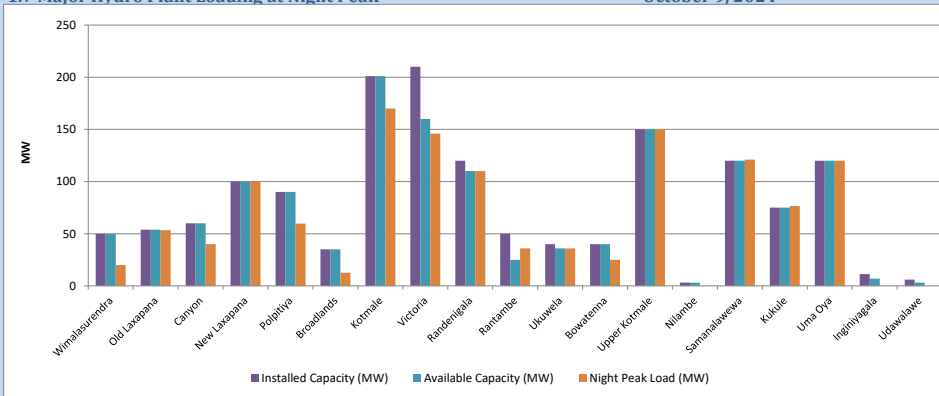
October 9, 2024



Available Generation is estimated based on plant availability at 6.00am on October 10, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 9, 2024



Plant availability is recorded at 6.00 am on October 10, 2024

1.8 Summary of Major Plant performance

October 9, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	20	202
Old Laxapana	54	54	53	578
Canyon	60	60	40	394
New Laxapana	100	100	100	1,189
Polpitiya	90	90	60	880
Broadlands	35	35	13	219
Kotmale	201	201	170	900
Victoria	210	160	146	2,367
Randenigala	120	110	110	1,004
Rantambe	50	25	36	356
Ukuwela	40	36	36	561
Bowatenna	40	40	25	61
Upper Kotmale	150	150	150	878
Nilambe	3	3	0	9
Samanalawewa	120	120	121	960
Kukule	75	75	77	740
Uma Oya	120	120	120	1,156
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,472
Puttalam Coal III	270	270	271	6,507
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,556
Sapugaskanda A	68	64	62	1,318
Sapugaskanda B	72	54	54	1,201
Uthura Janani	26	16	8	331
Barge CEB	60	60	59	1,329
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	278	6,545
Sobadhanavi	220	212	0	0
Total	3,606	2,758	2,538	42,922

Note- Plant availability is the availability recorded at 6 am on October 10, 2024

1.9 Contribution to the Night Peak in MW

October 9, 2024

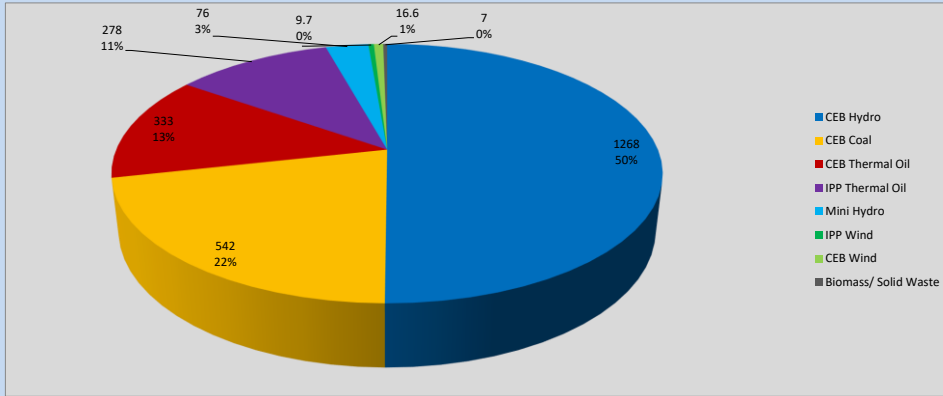


Table 05

CEB Hydro	1268	MW
CEB Coal	542	MW
CEB Thermal Oil	333	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	76	MW
IPP Wind	9.7	MW
CEB Wind	16.6	MW
Biomass/ Solid Waste	7	MW

Recorded Peak Demand Data

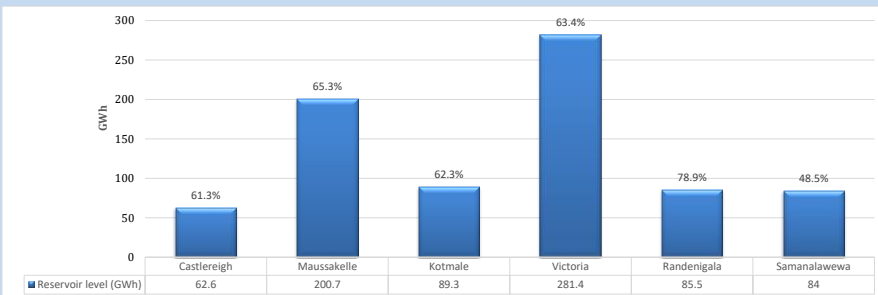
Table 06

Night Peak*	2,530	MW
Day Peak Maximum Demand	2,180	MW
Day Peak Minimum Demand	1,537	MW
Off Peak Minimum Demand	1,385	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 10, 2024



Total Reservoir Level: 803.5 GWh
% of Total capacity: 62.9%

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

October 9, 2024

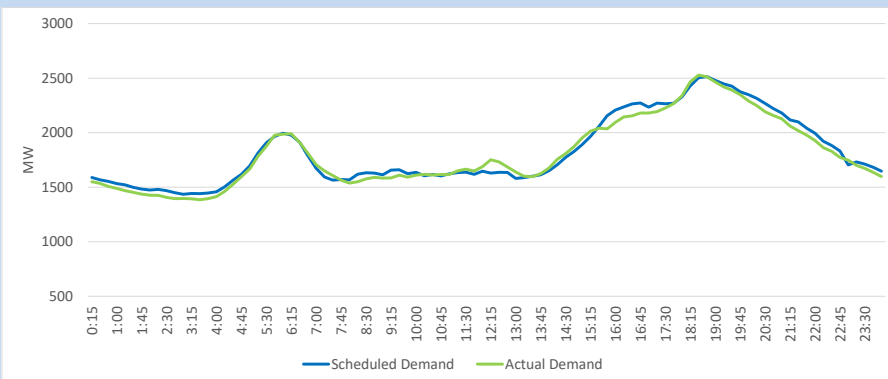
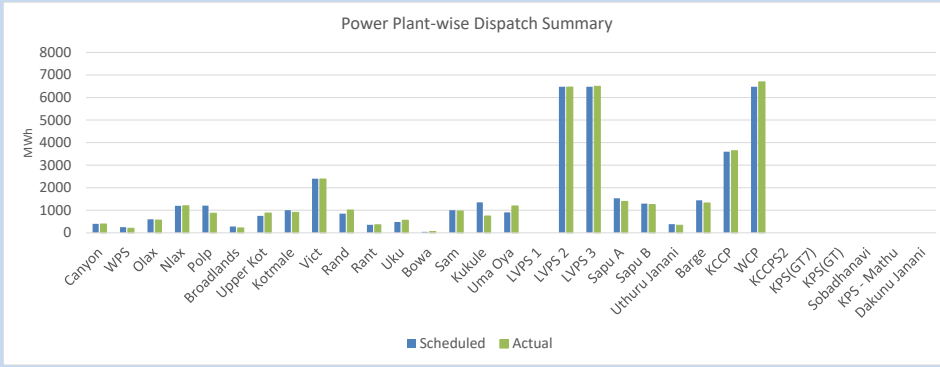


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,056	12,492	(565)
CEB Coal	12,960	12,966	6
CEB Thermal Oil	8,251	7,939	(312)
IPP Thermal Oil	6,480	6,691	211
NCRE (Telemetered)	3,035	3,182	147
Total	43,782	43,268	(514)

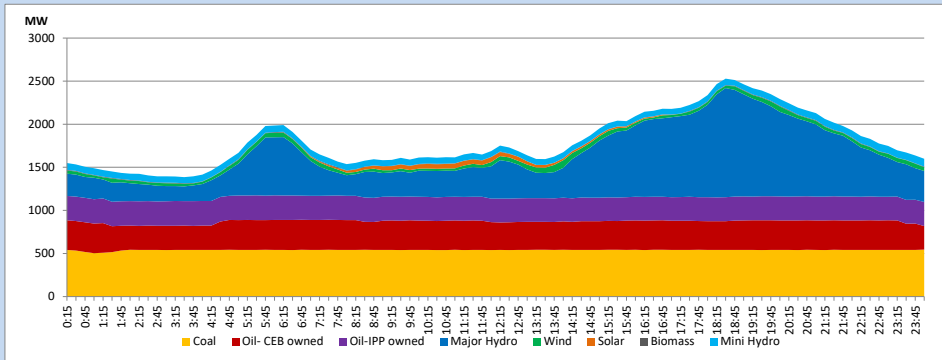
1.12 Power Plant-wise Dispatch Summary

October 9, 2024



1.13 Daily Load Curve

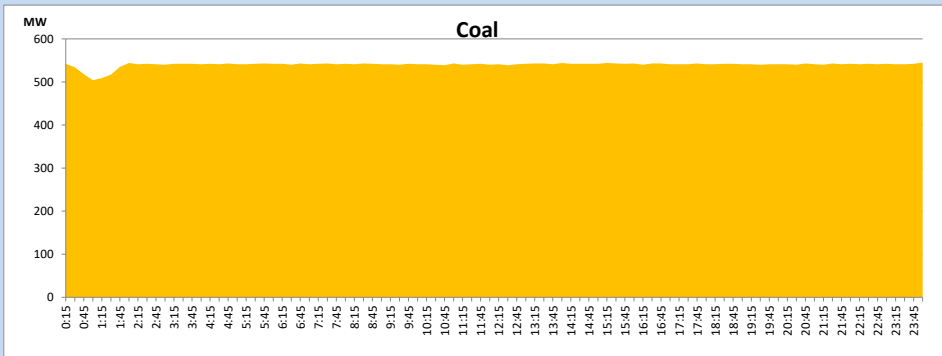
October 9, 2024



Solar and wind data is based on Telemetered Power Stations only

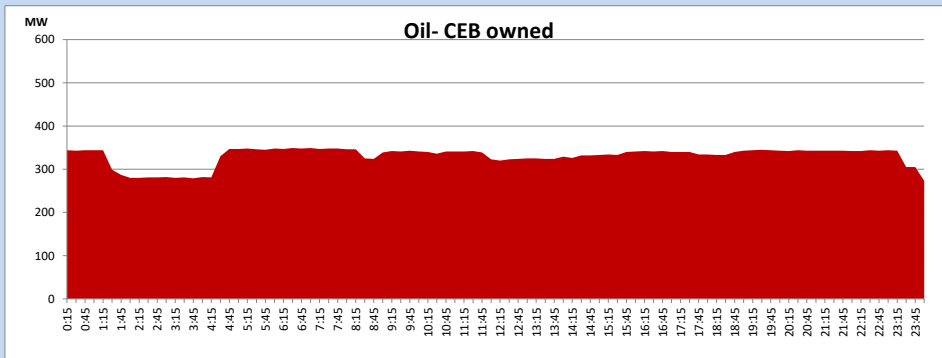
Coal Generation during

October 9, 2024



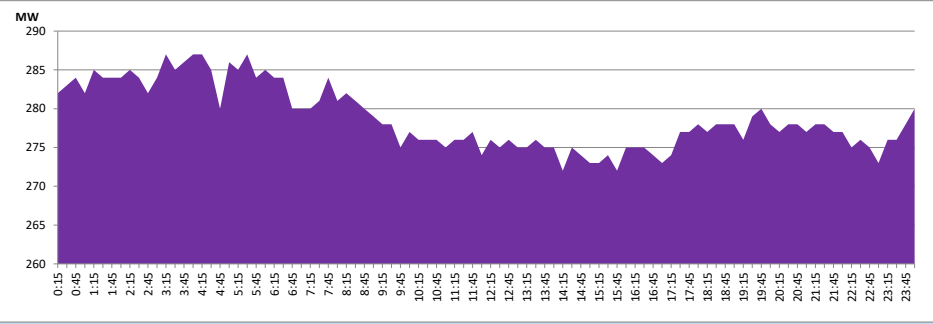
CEB Oil Plant Generation during

October 9, 2024



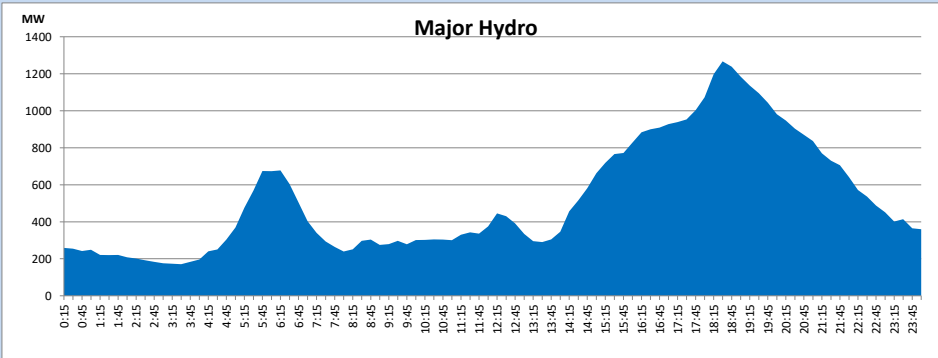
IPP Oil Plant Generation during

October 9, 2024



Major Hydro Generation during

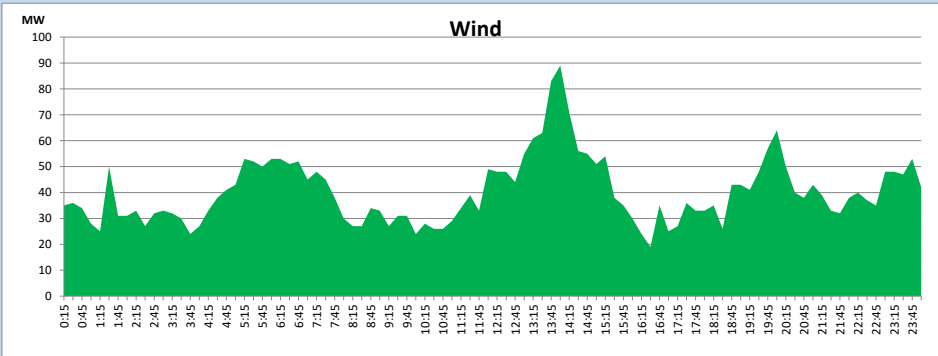
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Wind Generation during

October 9, 2024

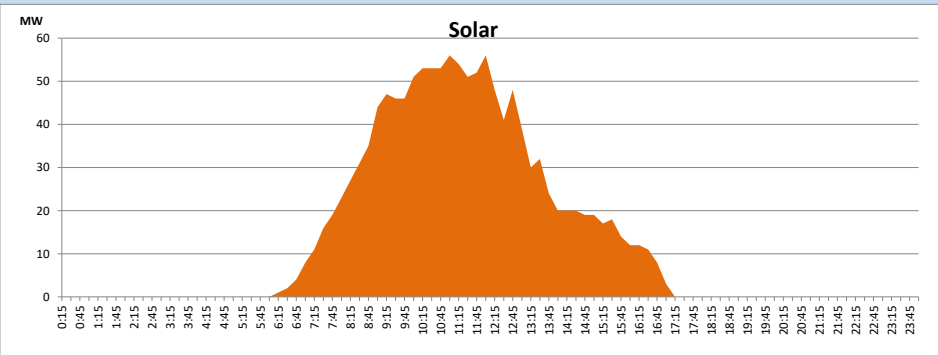
Based on Telemetered Power Stations only



Solar Generation during

October 9, 2024

Based on Telemetered Power Stations only

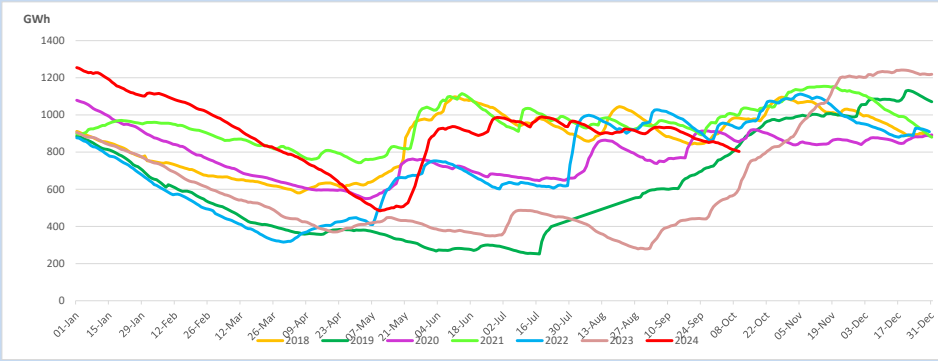


1.14 Major Incidents reported during the day

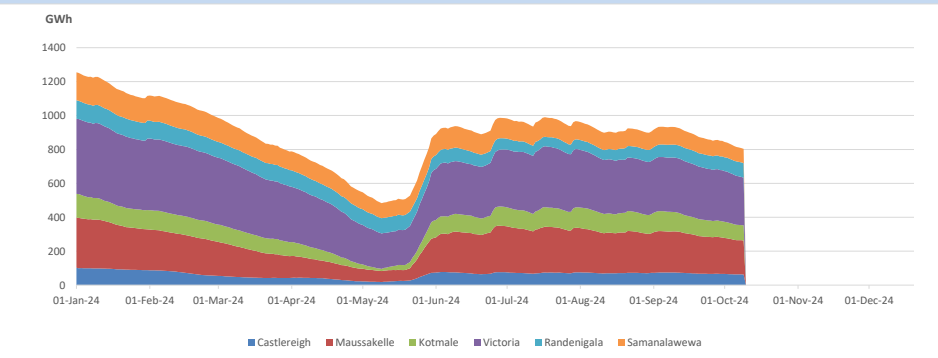
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- 1) Kolonnawa - Kosgama 132kV cct tripped only from Kolonnawa end at 15:05hrs with an indication of Direct Transfer Trip. The cct was normalized at 15:15hrs.
- 2) Monaragala GSS 132/33kV T/F 01 which tripped at 01:47hrs, was normalized at 16:45hrs.
- 3) Uma Oya Dyrabaa pond spilling started at 16:33hrs and spilled intermittently. The pond spilling stopped at 01:54hrs (10.10.2024).
- 4) Uma Oya Puhulpola pond spilling started at 18:30hrs and spilling stopped at 23:28hrs.

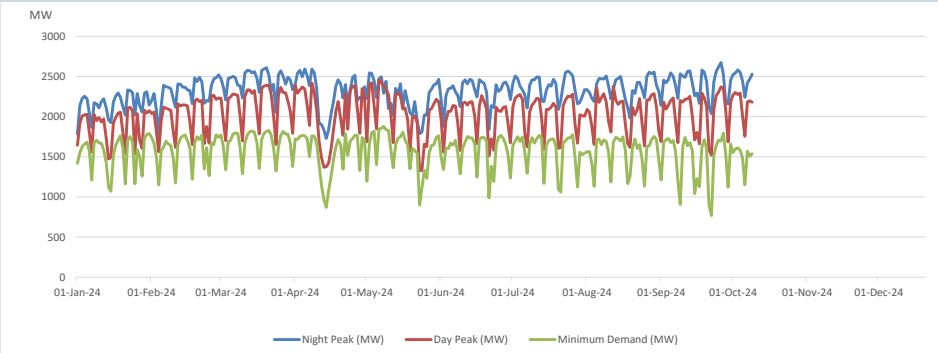
2. Comparison of Total Reservoir Storage Levels with Past Years



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

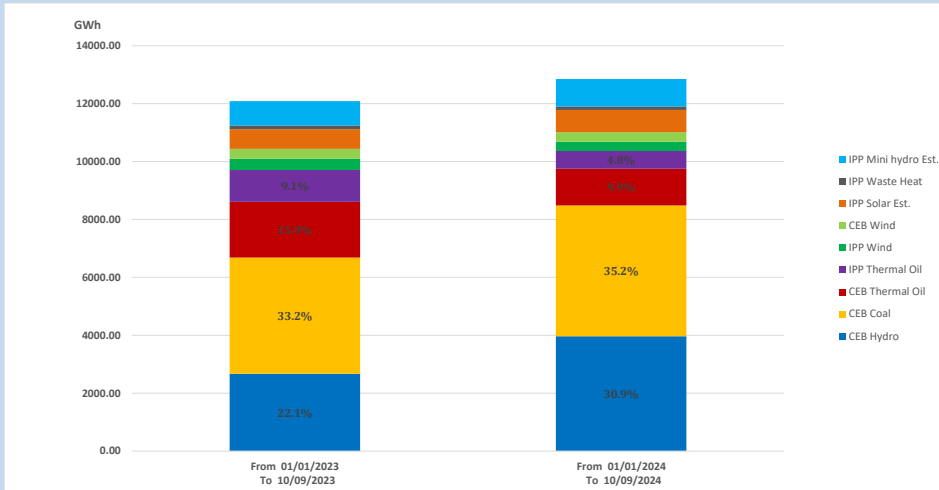


4. Variation of Demand during the current year



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 10/09/2023

12089 GWh

From 01/01/2024 To 10/09/2024

12850 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