

Generation and Reservoirs Statistics

October 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 19, 2024

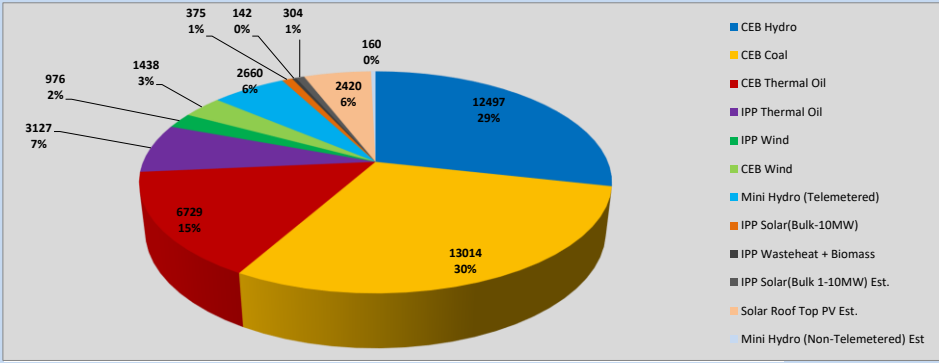


Table 01

	Generation (MWh)
CEB Hydro	12497
CEB Coal	13014
CEB Thermal Oil	6729
IPP Thermal Oil	3127
IPP Wind	976
CEB Wind	1438
Mini Hydro (Telemetered)	2660
IPP Solar (Bulk)	375
IPP Waste heat + Biomass	142
Total Generation (Excluding estimated figures)	40,958
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	160
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	43,842

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	244	29.05%
CEB Coal	245	29.21%
CEB Thermal Oil	119	14.20%
IPP Thermal	78	9.23%
IPP Wind	16	1.93%
CEB Wind	20	2.36%
Mini Hydro *	55	6.61%
IPP Solar *	58	6.93%
IPP Waste heat + BMP	4	0.48%
Total	840	

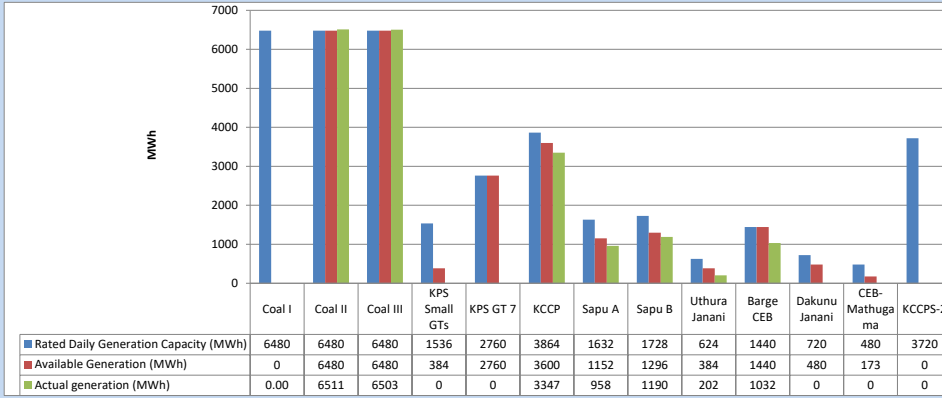
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,097	29.50%
CEB Coal	4,646	33.45%
CEB Thermal Oil	1,320	9.51%
IPP Thermal	1,251	9.01%
IPP Wind	328	2.36%
CEB Wind	338	2.43%
Mini Hydro *	985	7.09%
IPP Solar *	804	5.79%
IPP Waste heat	118	0.85%
Total	13,888	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 19, 2024

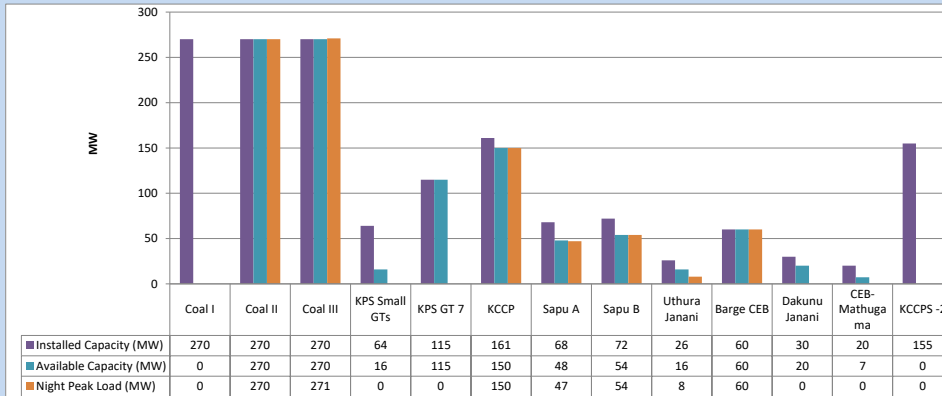


Available Generation is estimated based on plant availability at 6.00am on

October 20, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 19, 2024

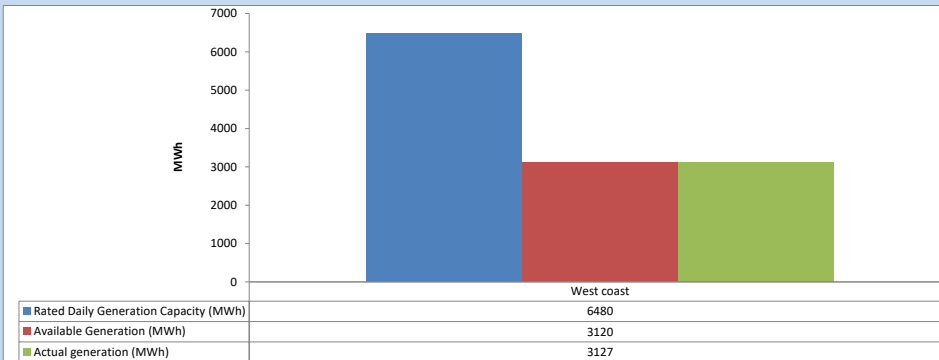


Plant availability is recorded at 6.00 am on

October 20, 2024

1.4 IPP owned Thermal Plant Dispatch

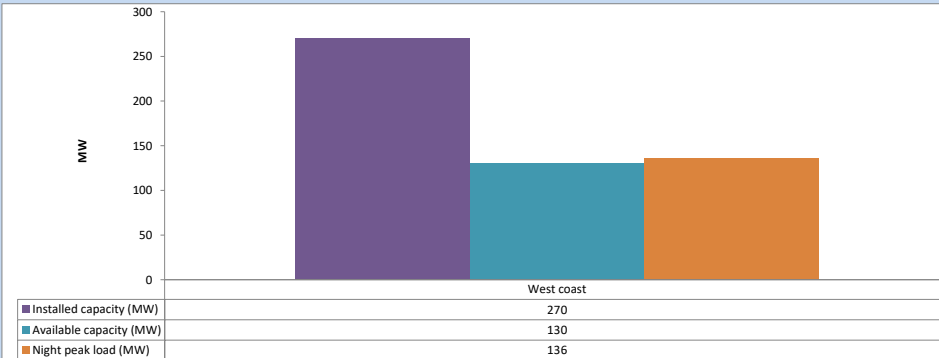
October 19, 2024



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

October 20, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

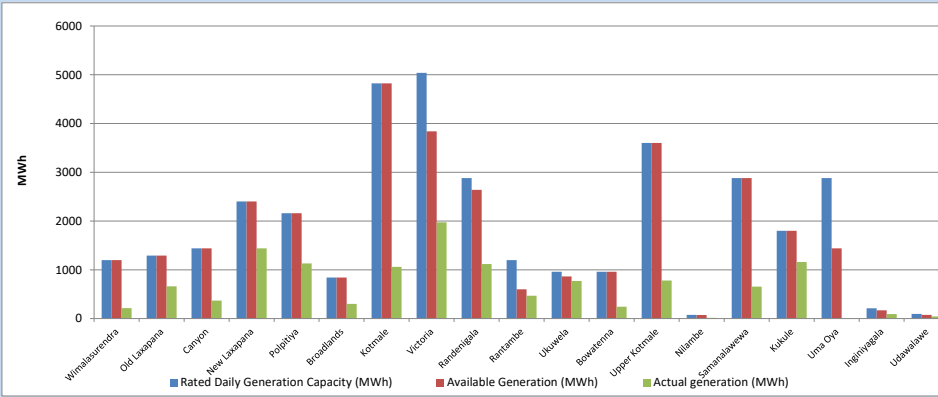


Plant availability is recorded at 6.00 am on

October 20, 2024

1.6 Major Hydro Plant Dispatch

October 19, 2024

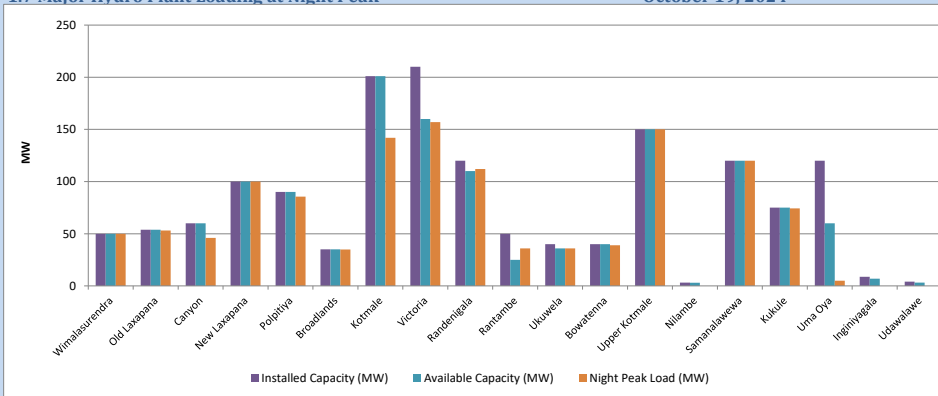


Available Generation is estimated based on plant availability at 6.00am on

October 20, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 19, 2024



Plant availability is recorded at 6.00 am on

October 20, 2024

1.8 Summary of Major Plant performance

October 19, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	215
Old Laxapana	54	54	53	661
Canyon	60	60	46	370
New Laxapana	100	100	100	1,441
Polpitiya	90	90	86	1,130
Broadlands	35	35	35	302
Kotmale	201	201	142	1,060
Victoria	210	160	157	1,973
Randenigala	120	110	112	1,119
Rantambe	50	25	36	469
Ukuwela	40	36	36	772
Bowatenna	40	40	39	242
Upper Kotmale	150	150	150	780
Nilambe	3	3	0	15
Samanalawewa	120	120	120	655
Kukule	75	75	74	1,159
Uma Oya	120	60	5	1
Inginiyagala	9	7	0	91
Udawalawe	4	3	0	43
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,511
Puttalam Coal III	270	270	271	6,503
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,347
Sapugaskanda A	68	48	47	958
Sapugaskanda B	72	54	54	1,190
Uthura Janani	26	16	8	202
Barge CEB	60	60	60	1,032
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	7	0	0
KCCPS -2	155	0	0	0
West Coast	270	130	136	3,127
Sobadhanavi	220	212	0	0
Total	3,602	2,535	2,402	40,959

Note-

Plant availability is the availability recorded at 6 am on

October 20, 2024

1.9 Contribution to the Night Peak in MW

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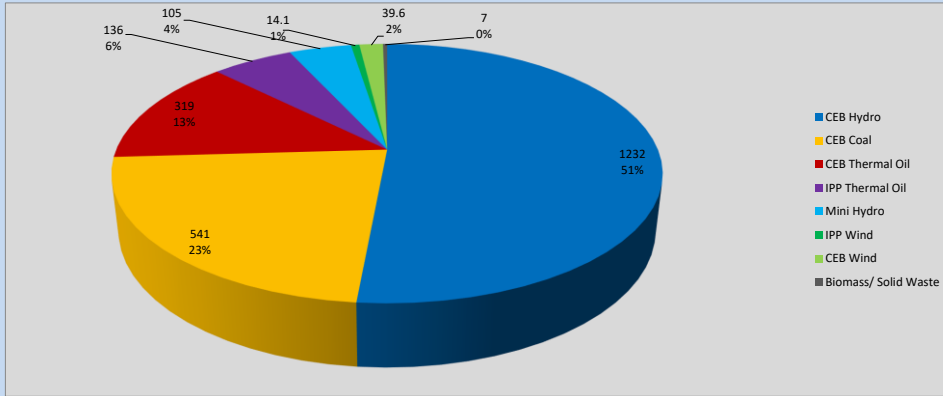


Table 05

CEB Hydro	1232	MW
CEB Coal	541	MW
CEB Thermal Oil	319	MW
IPP Thermal Oil	136	MW
Mini Hydro (Telemetered)	105	MW
IPP Wind	14.1	MW
CEB Wind	39.6	MW
Biomass/ Solid Waste	7	MW

Recorded Peak Demand Data

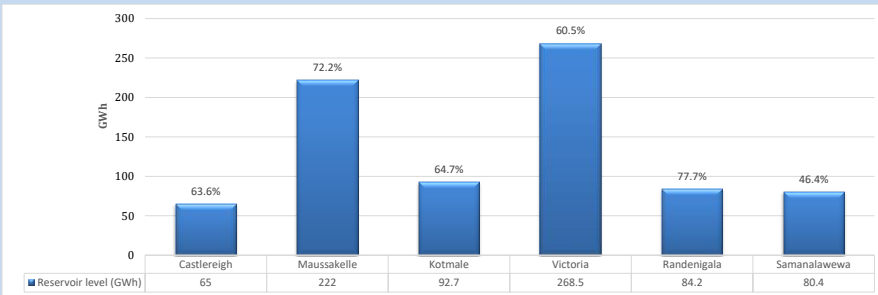
Table 06

Night Peak*	2,393	MW
Day Peak Maximum Demand	1,981	MW
Day Peak Minimum Demand	1,427	MW
Off Peak Minimum Demand	1,421	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 20, 2024



Total Reservoir Level 812.8 GWh
% of Total capacity 63.6%

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

October 19, 2024

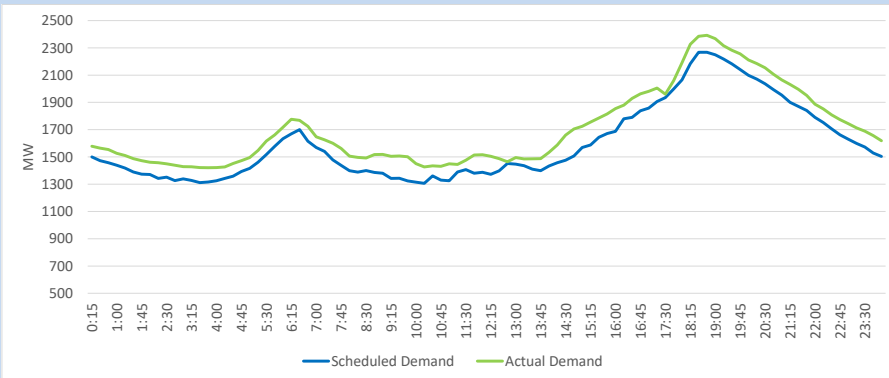
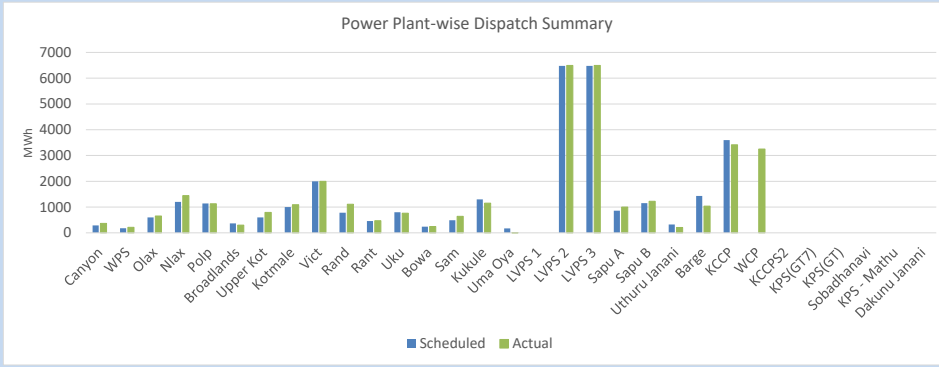


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,598	12,358	759
CEB Coal	12,954	12,986	31
CEB Thermal Oil	7,367	6,883	(484)
IPP Thermal Oil	-	3,254	3,254
NCRE (Telemetered)	6,350	5,407	(943)
Total	38,270	40,887	2,617

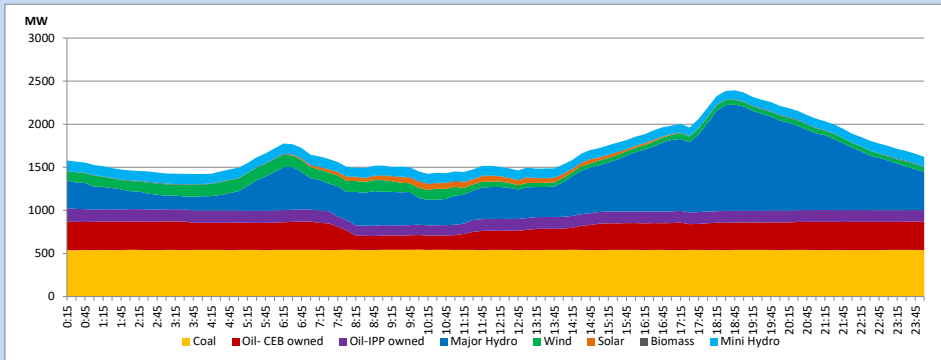
1.12 Power Plant-wise Dispatch Summary

October 19, 2024



1.13 Daily Load Curve

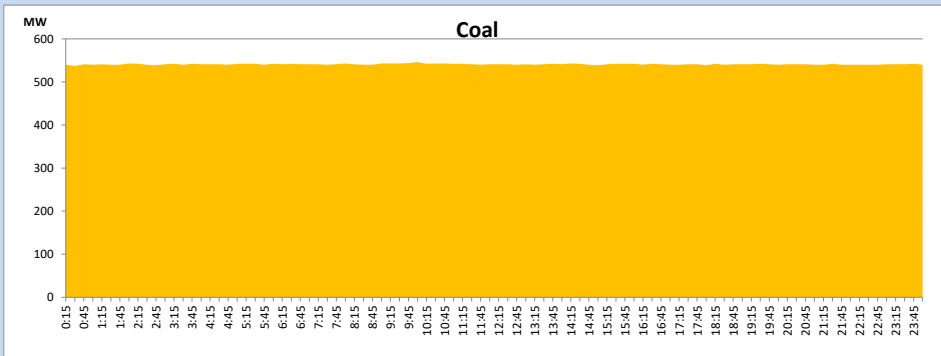
October 19, 2024



Solar and wind data is based on Telemetered Power Stations only

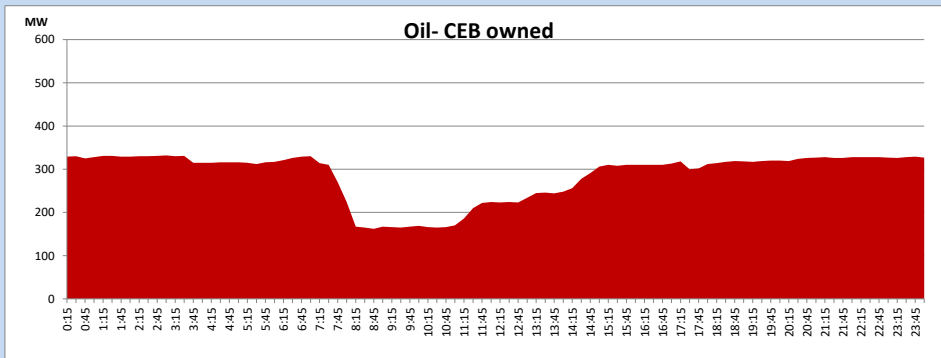
Coal Generation during

October 19, 2024



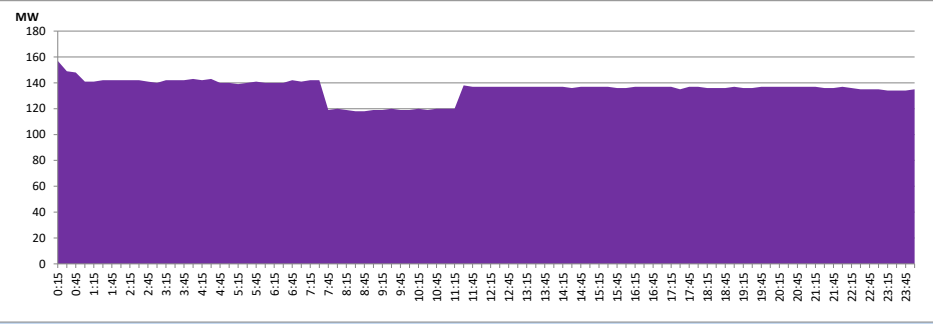
CEB Oil Plant Generation during

October 19, 2024



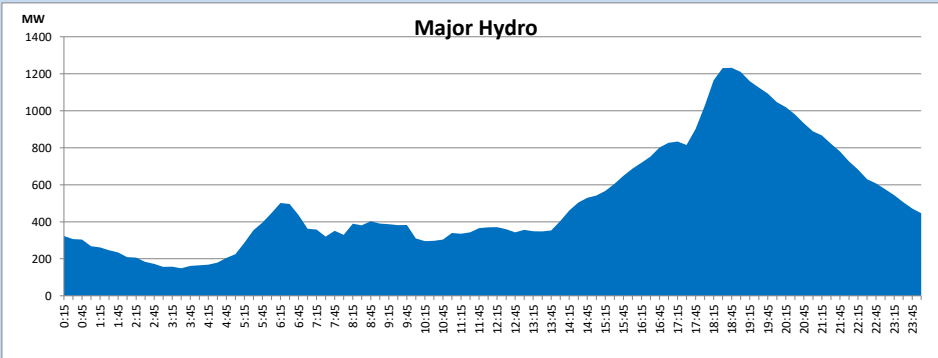
IPP Oil Plant Generation during

October 19, 2024



Major Hydro Generation during

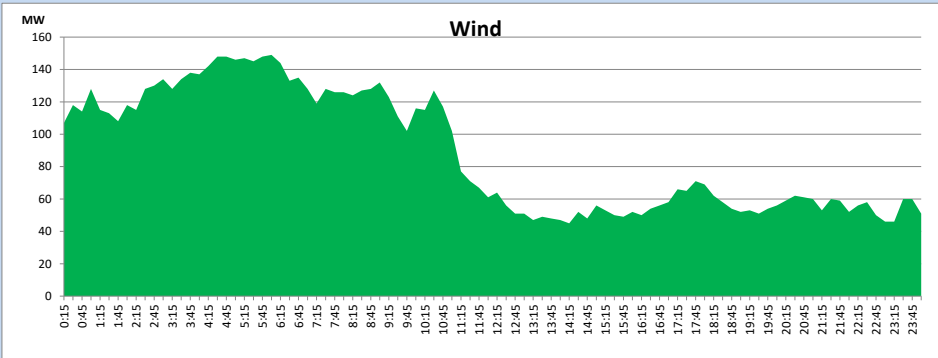
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Wind Generation during

October 19, 2024

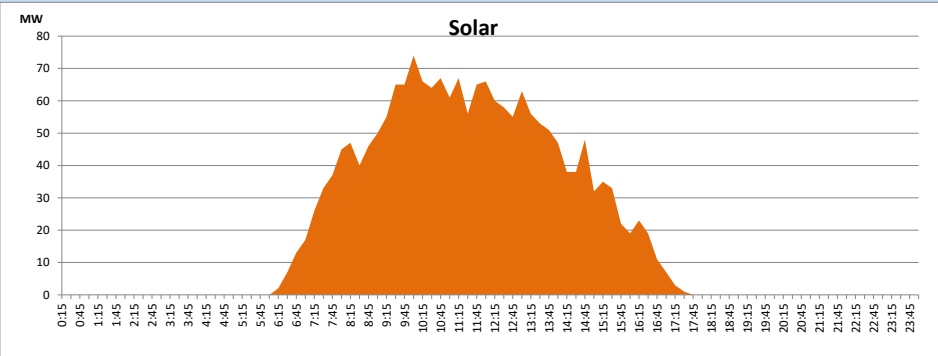
Based on Telemetered Power Stations only



Solar Generation during

October 19, 2024

Based on Telemetered Power Stations only

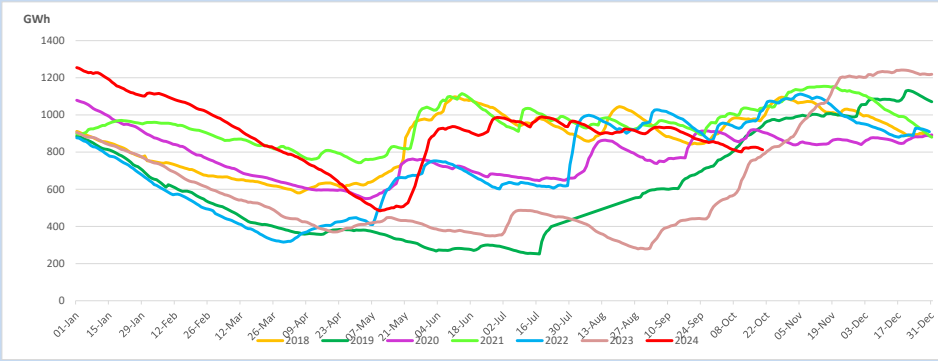


1.14 Major Incidents reported during the day

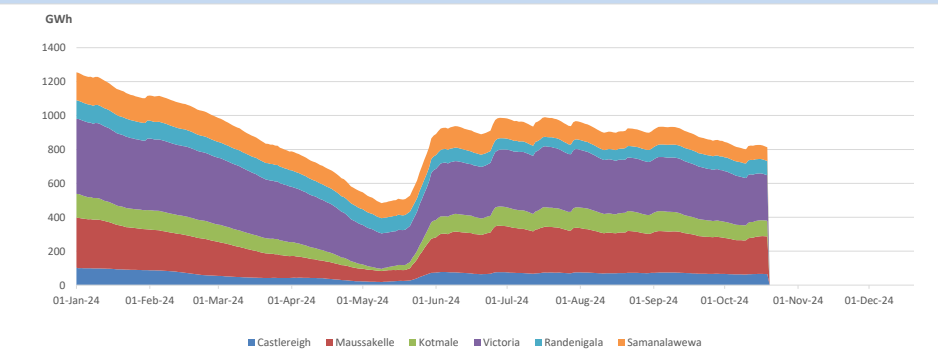
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- 1) Athurugiriya - Thulhiriya - New Polpitiya 132kV cct tripped from all three ends at 16:06hrs due to the operation of distance protection. The cct was normalized at 16:37hrs.
- 2) KCCPS2 - Kelanitissa 220kV cable tripped at 17:25hrs from Kelanitissa end due to the operation of E/F protection. The cable is yet to be normalized.

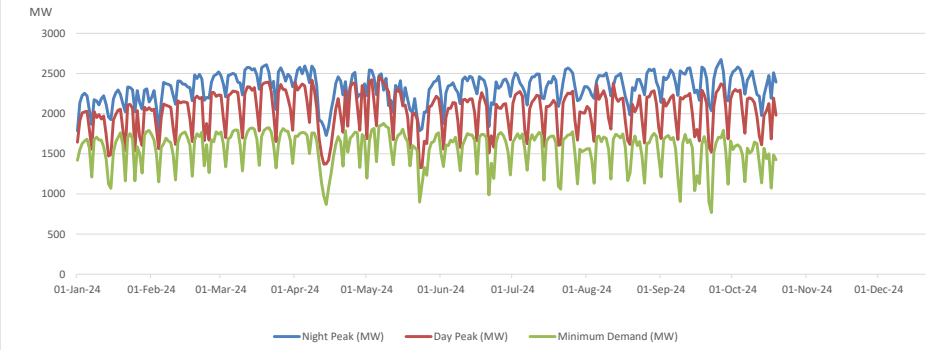
2. Comparison of Total Reservoir Storage Levels with Past Years



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

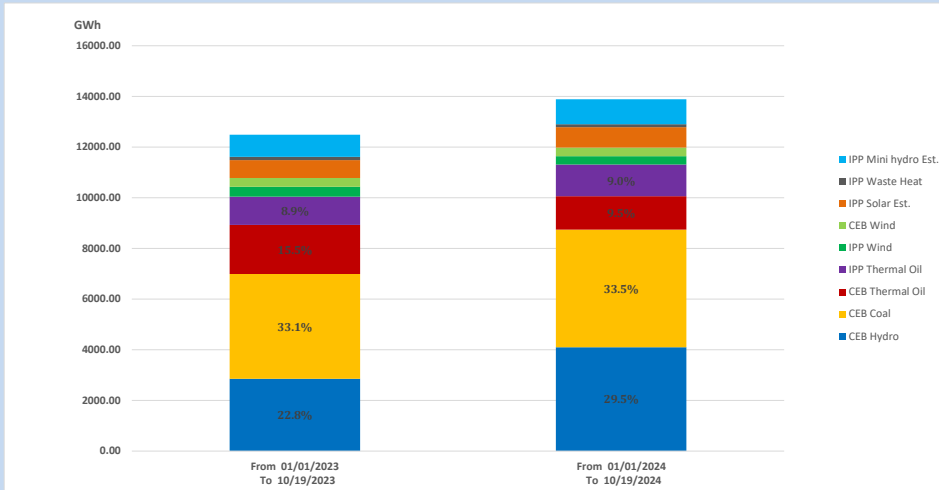


4. Variation of Demand during the current year



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 10/19/2023

12486 GWh

From 01/01/2024 To 10/19/2024

13888 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	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