

Generation and Reservoirs Statistics

October 13, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 13, 2024

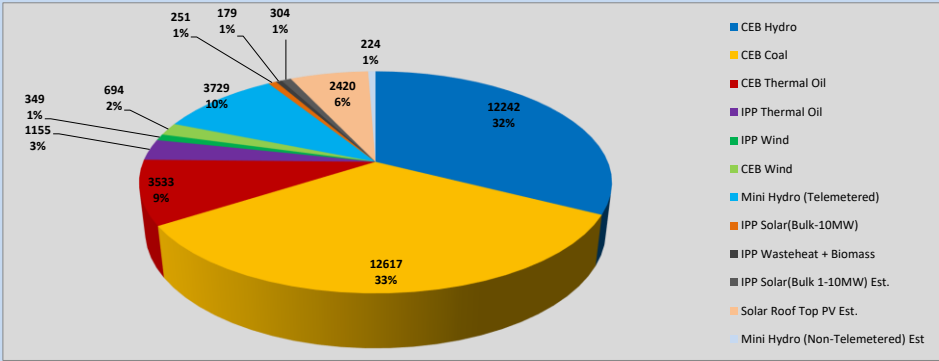


Table 01

	Generation (MWh)
CEB Hydro	12242
CEB Coal	12617
CEB Thermal Oil	3533
IPP Thermal Oil	1155
IPP Wind	349
CEB Wind	694
Mini Hydro (Telemetered)	3729
IPP Solar (Bulk)	251
IPP Waste heat + Biomass	179
Total Generation (Excluding estimated figures)	34,749
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	224
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	37,697

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	163	28.09%
CEB Coal	168	28.98%
CEB Thermal Oil	88	15.12%
IPP Thermal	63	10.85%
IPP Wind	10	1.76%
CEB Wind	13	2.30%
Mini Hydro *	32	5.50%
IPP Solar *	40	6.84%
IPP Waste heat + BMP	3	0.54%
Total	580	

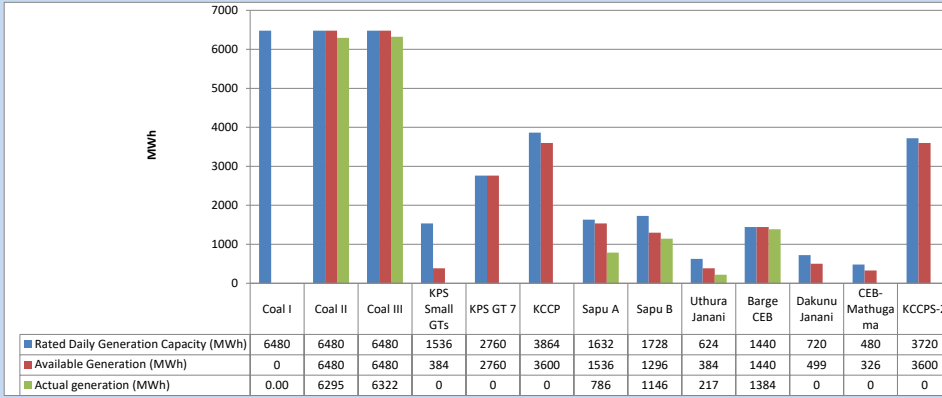
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,016	29.47%
CEB Coal	4,569	33.52%
CEB Thermal Oil	1,289	9.46%
IPP Thermal	1,237	9.07%
IPP Wind	322	2.36%
CEB Wind	332	2.43%
Mini Hydro *	962	7.06%
IPP Solar *	786	5.77%
IPP Waste heat	117	0.86%
Total	13,629	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 13, 2024

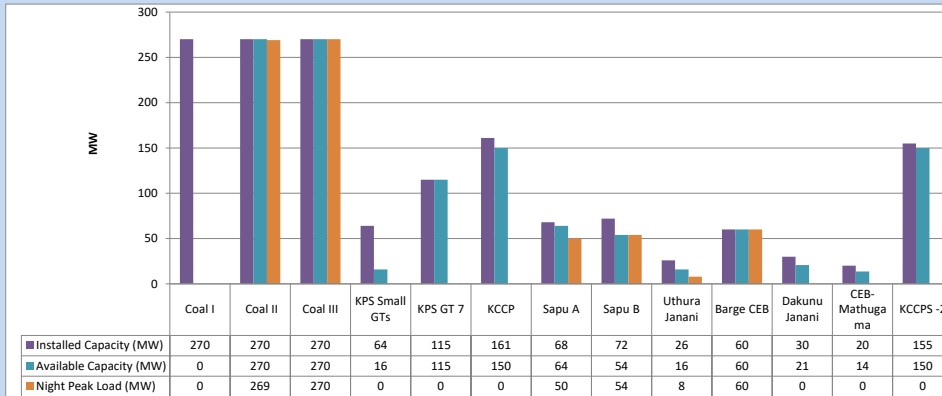


Available Generation is estimated based on plant availability at 6.00am on

October 14, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 13, 2024



Plant availability is recorded at 6.00 am on

October 14, 2024

1.4 IPP owned Thermal Plant Dispatch

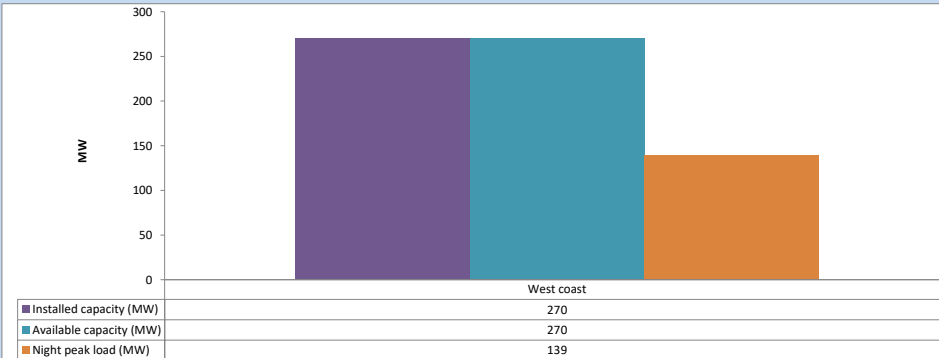
October 13, 2024



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

October 14, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

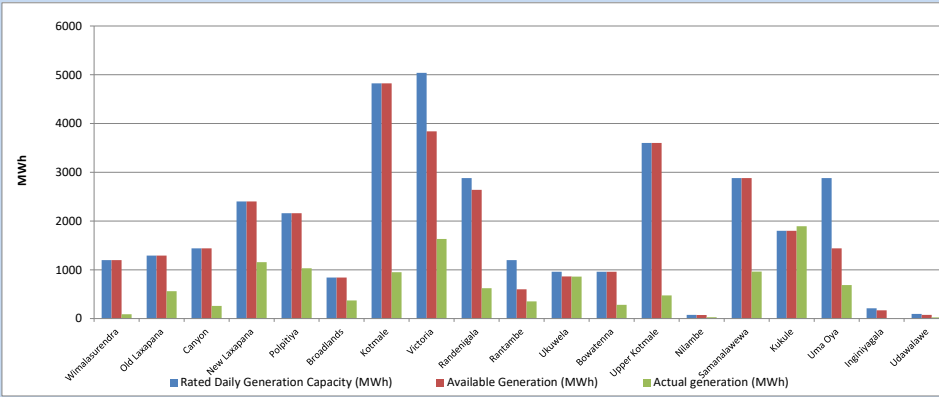


Plant availability is recorded at 6.00 am on

October 14, 2024

1.6 Major Hydro Plant Dispatch

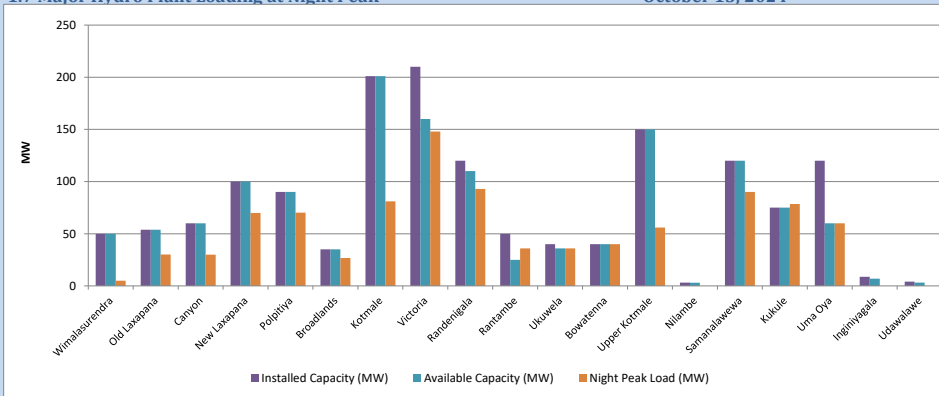
October 13, 2024



Available Generation is estimated based on plant availability at 6.00am on October 14, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 13, 2024



Plant availability is recorded at 6.00 am on October 14, 2024

1.8 Summary of Major Plant performance

October 13, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	5	88
Old Laxapana	54	54	30	563
Canyon	60	60	30	260
New Laxapana	100	100	70	1,156
Polpitiya	90	90	70	1,030
Broadlands	35	35	27	373
Kotmale	201	201	81	950
Victoria	210	160	148	1,632
Randenigala	120	110	93	622
Rantambe	50	25	36	353
Ukuwela	40	36	36	861
Bowatenna	40	40	40	283
Upper Kotmale	150	150	56	474
Nilambe	3	3	0	29
Samanalawewa	120	120	90	964
Kukule	75	75	79	1,893
Uma Oya	120	60	60	688
Inginipigala	9	7	0	0
Udawalawe	4	3	0	25
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,295
Puttalam Coal III	270	270	270	6,322
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	64	50	786
Sapugaskanda B	72	54	54	1,146
Uthura Janani	26	16	8	217
Barge CEB	60	60	60	1,384
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	139	1,155
Sobadhanavi	220	212	0	0
Total	3,602	2,848	1,988	34,751

Note- Plant availability is the availability recorded at 6 am on October 14, 2024

1.9 Contribution to the Night Peak in MW

October 13, 2024

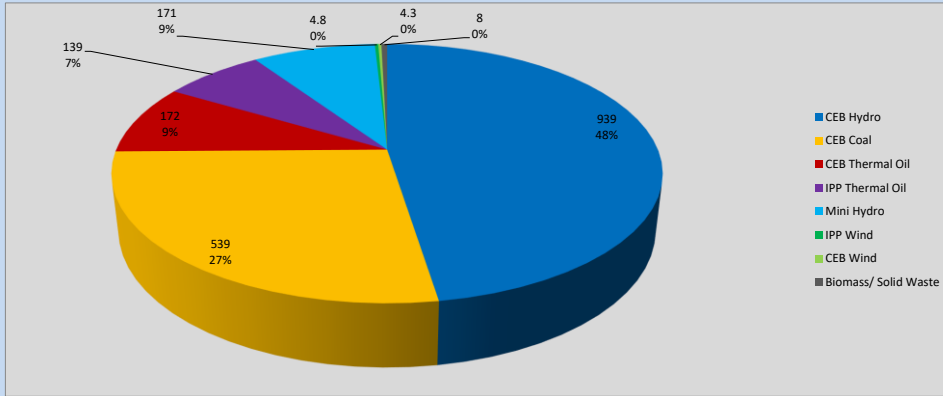


Table 05

CEB Hydro	939	MW
CEB Coal	539	MW
CEB Thermal Oil	172	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	171	MW
IPP Wind	4.8	MW
CEB Wind	4.3	MW
Biomass/ Solid Waste	8	MW

Recorded Peak Demand Data

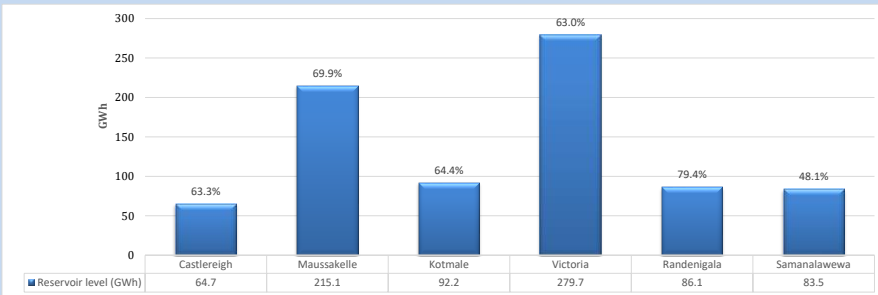
Table 06

Night Peak*	1,977	MW
Day Peak Maximum Demand	1,611	MW
Day Peak Minimum Demand	1,136	MW
Off Peak Minimum Demand	1,207	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 14, 2024



Total Reservoir Level: 821.3 GWh
% of Total capacity: 64.2%

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

October 13, 2024

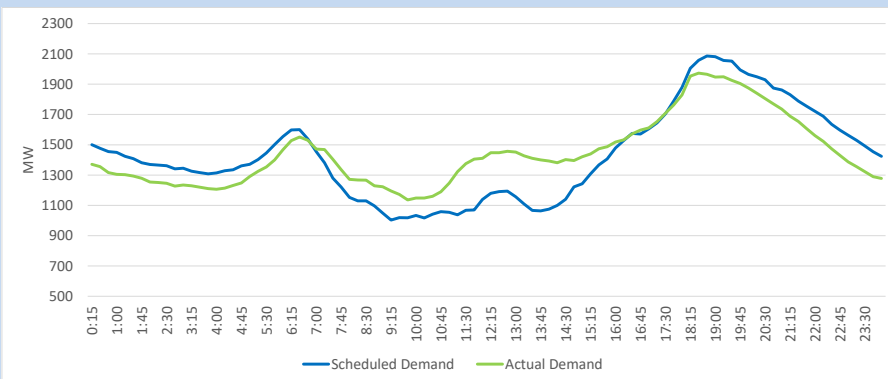
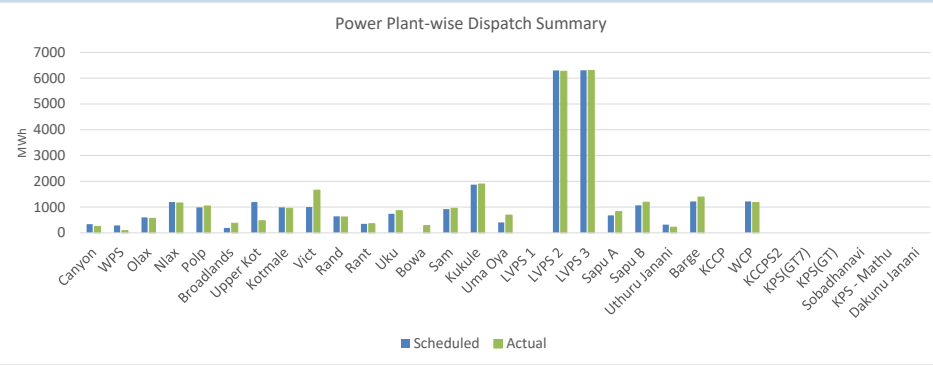


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,689	12,193	504
CEB Coal	12,604	12,570	(34)
CEB Thermal Oil	3,280	3,628	348
IPP Thermal Oil	1,218	1,175	(43)
NCRE (Telemetered)	5,614	5,130	(484)
Total	34,406	34,696	290

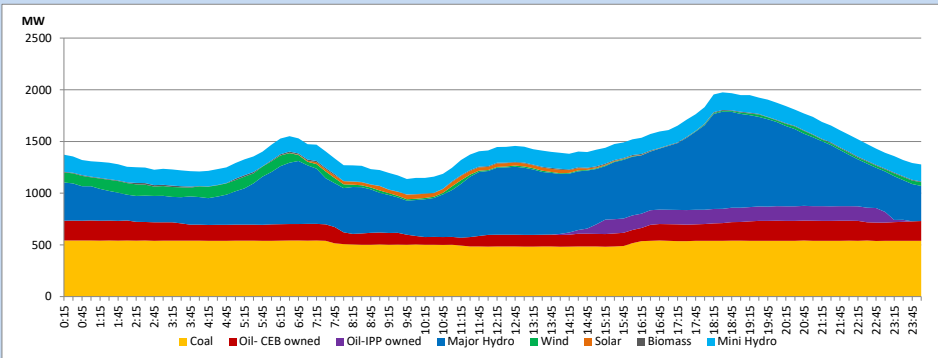
1.12 Power Plant-wise Dispatch Summary

October 13, 2024



1.13 Daily Load Curve

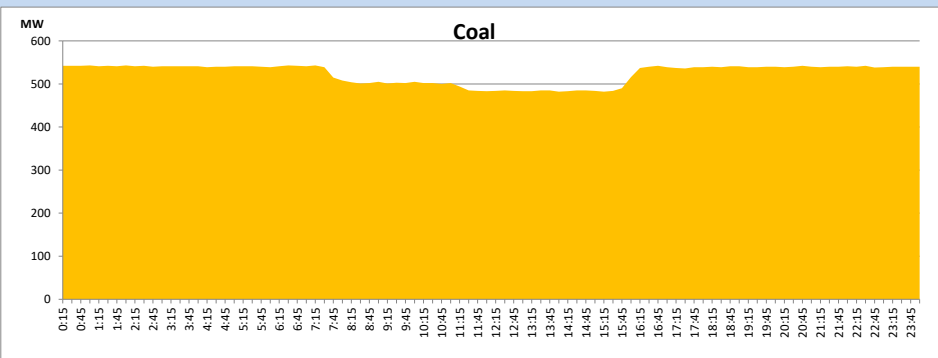
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Solar and wind data is based on Telemetered Power Stations only

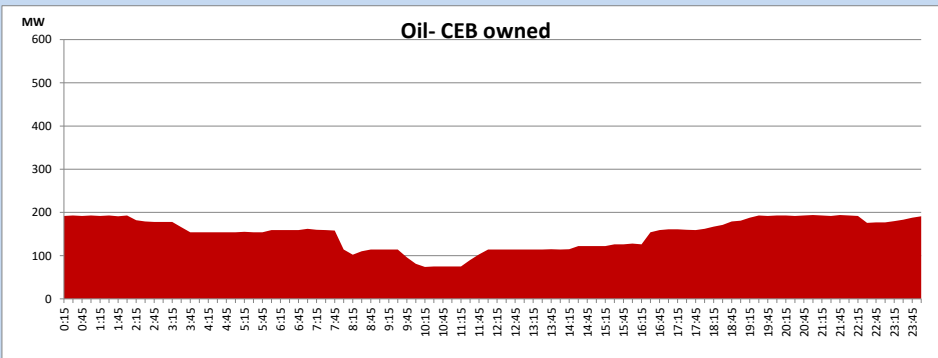
Coal Generation during

October 13, 2024



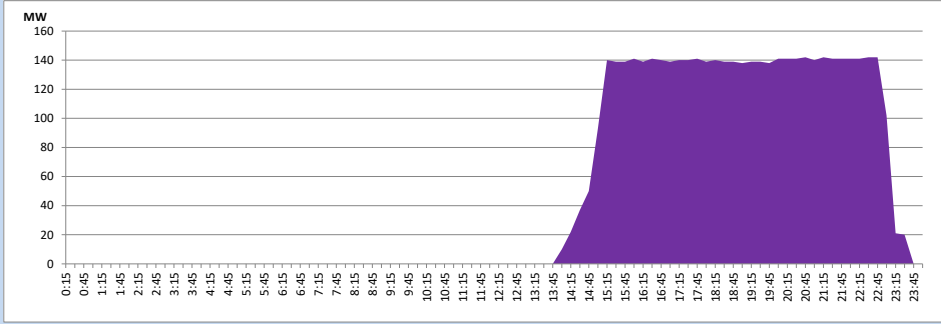
CEB Oil Plant Generation during

October 13, 2024



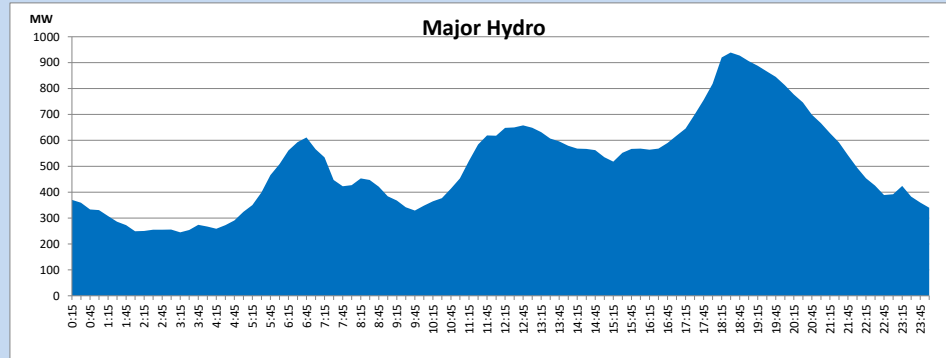
IPP Oil Plant Generation during

October 13, 2024



Major Hydro Generation during

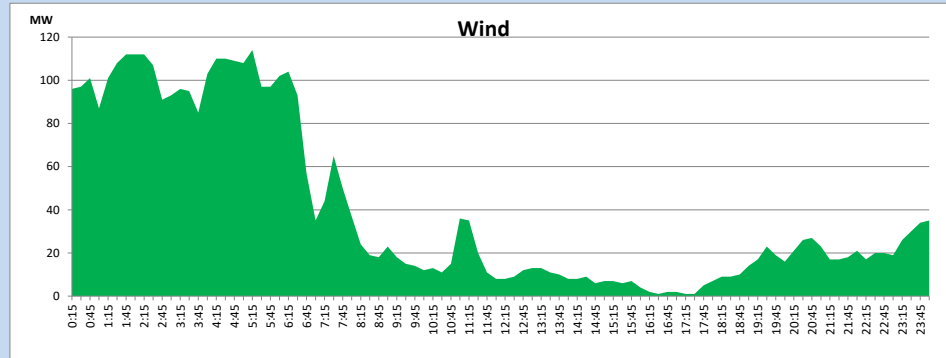
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Wind Generation during

October 13, 2024

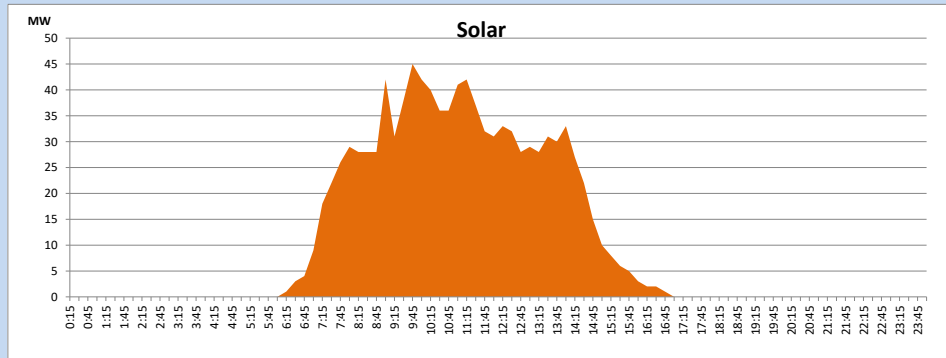
Based on Telemetered Power Stations only



Solar Generation during

October 13, 2024

Based on Telemetered Power Stations only

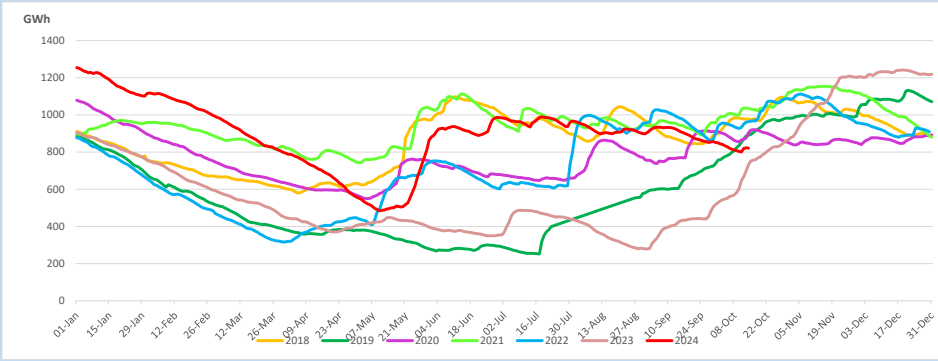


1.14 Major Incidents reported during the day

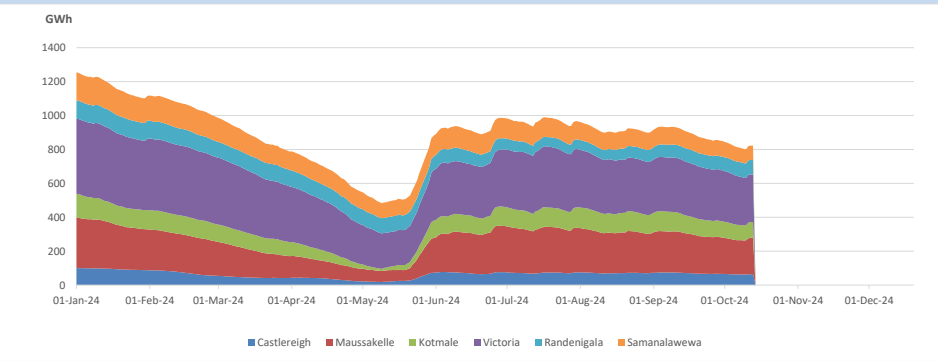
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- 1) Kukule Ganga pond spilling started at 12:30hrs and spilling continues to the present hour.
- 2) N' Laxapana unit 02 tripped at 14:03hrs, rejecting 50MW from the system, due to an auxiliary failure. N'Laxapana unit 02 resumed generation at 14:51hrs.

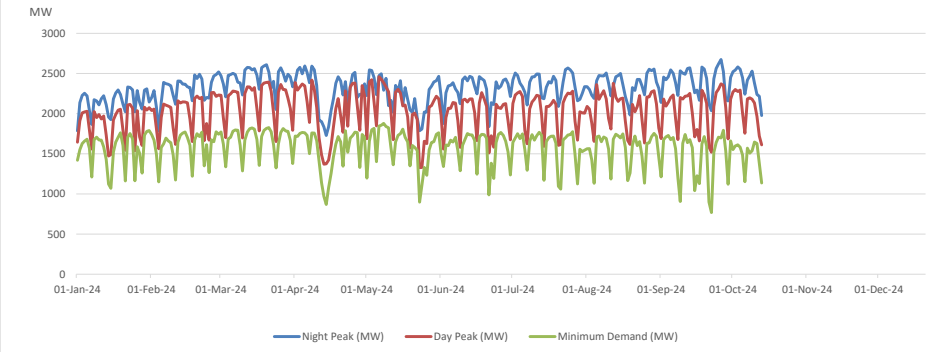
2. Comparison of Total Reservoir Storage Levels with Past Years



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

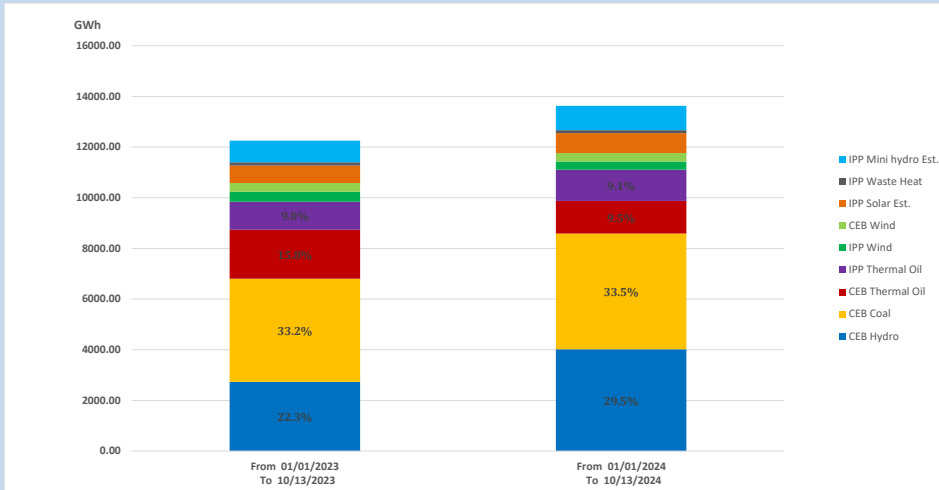


4. Variation of Demand during the current year



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 10/13/2023

12255 GWh

From 01/01/2024 To 10/13/2024

13629 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)	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