

Generation and Reservoirs Statistics

October 17, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 17, 2024

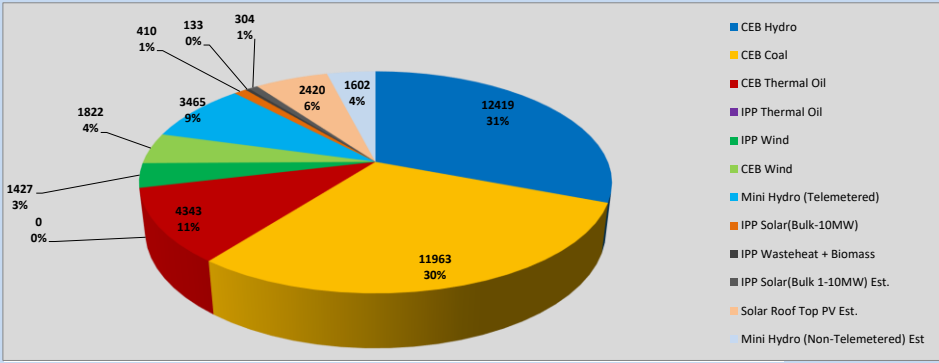


Table 01

	Generation (MWh)
CEB Hydro	12419
CEB Coal	11963
CEB Thermal Oil	4343
IPP Thermal Oil	0
IPP Wind	1427
CEB Wind	1822
Mini Hydro (Telemetered)	3465
IPP Solar (Bulk)	410
IPP Waste heat + Biomass	133
Total Generation (Excluding estimated figures)	35,982
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1602
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	40,308

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	217	28.94%
CEB Coal	219	29.20%
CEB Thermal Oil	105	14.03%
IPP Thermal	73	9.67%
IPP Wind	14	1.88%
CEB Wind	17	2.27%
Mini Hydro *	50	6.60%
IPP Solar *	52	6.92%
IPP Waste heat + BMP	4	0.50%
Total	751	

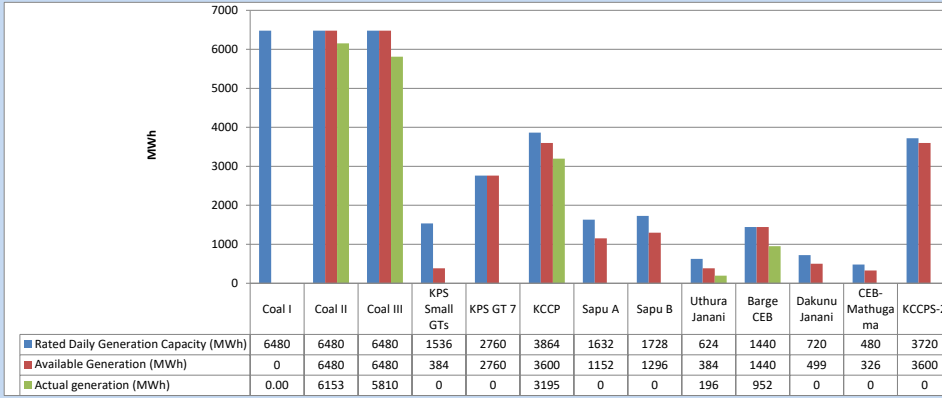
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,071	29.50%
CEB Coal	4,620	33.48%
CEB Thermal Oil	1,306	9.47%
IPP Thermal	1,246	9.03%
IPP Wind	325	2.36%
CEB Wind	335	2.43%
Mini Hydro *	979	7.10%
IPP Solar *	798	5.78%
IPP Waste heat	118	0.86%
Total	13,799	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 17, 2024

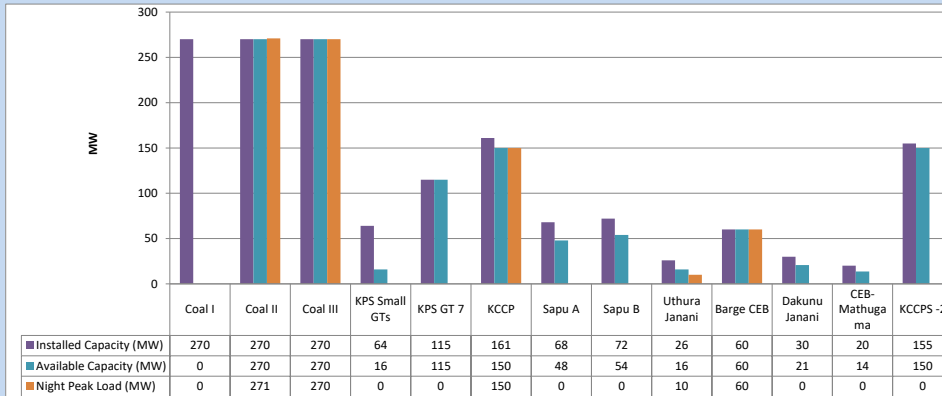


Available Generation is estimated based on plant availability at 6.00am on

October 18, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

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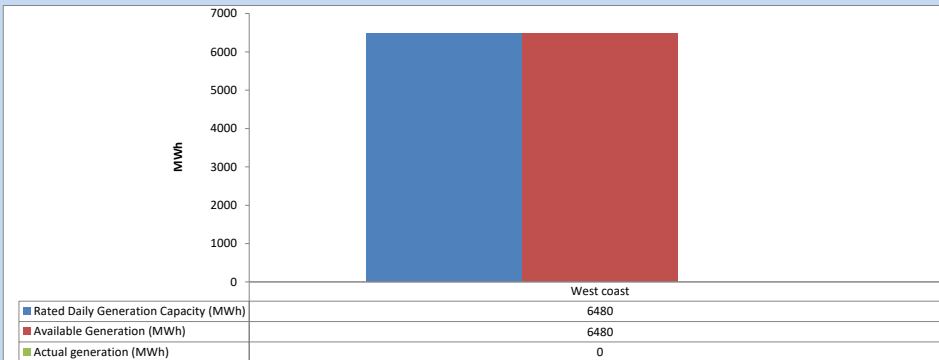


Plant availability is recorded at 6.00 am on

October 18, 2024

1.4 IPP owned Thermal Plant Dispatch

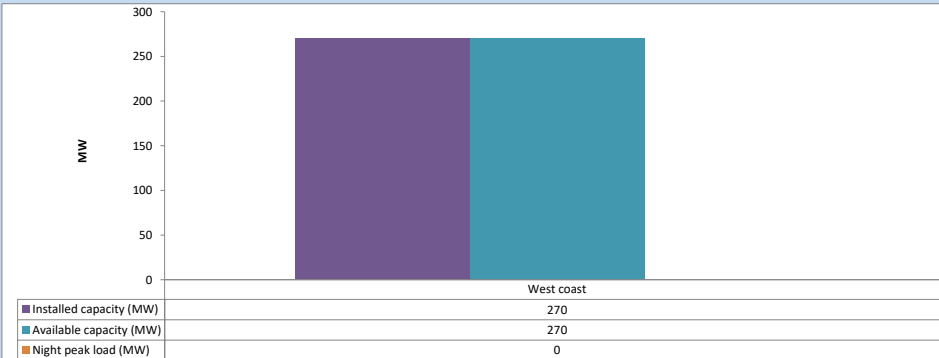
October 17, 2024



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

October 18, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

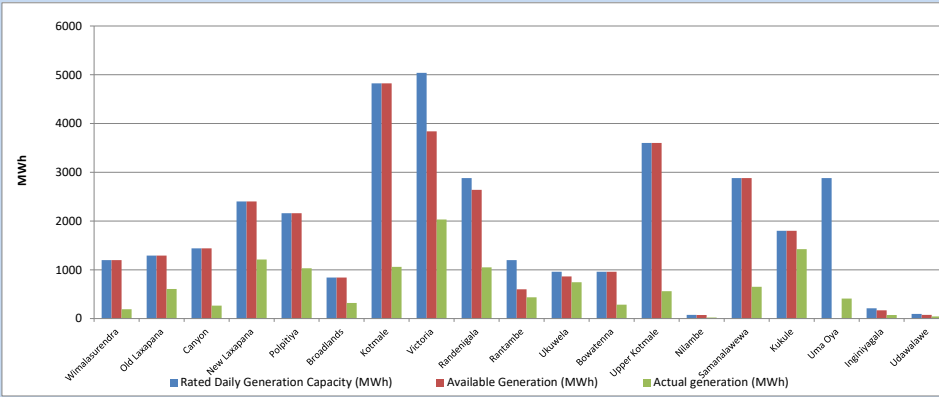


Plant availability is recorded at 6.00 am on

October 18, 2024

1.6 Major Hydro Plant Dispatch

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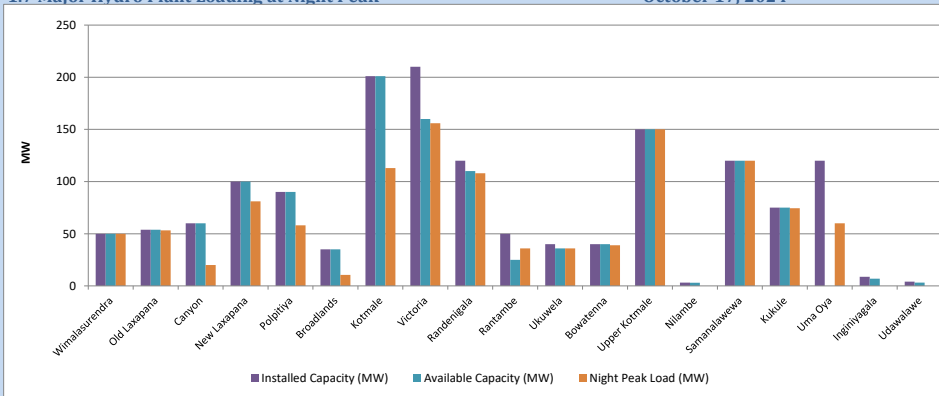


Available Generation is estimated based on plant availability at 6.00am on

October 18, 2024

1.7 Major Hydro Plant Loading at Night Peak

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Plant availability is recorded at 6.00 am on

October 18, 2024

1.8 Summary of Major Plant performance

October 17, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	191
Old Laxapana	54	54	53	606
Canyon	60	60	20	265
New Laxapana	100	100	81	1,212
Polpitiya	90	90	58	1,030
Broadlands	35	35	11	320
Kotmale	201	201	113	1,060
Victoria	210	160	156	2,031
Randenigala	120	110	108	1,052
Rantambe	50	25	36	437
Ukuwela	40	36	36	746
Bowatenna	40	40	39	284
Upper Kotmale	150	150	150	563
Nilambe	3	3	0	20
Samanalawewa	120	120	120	652
Kukule	75	75	74	1,423
Uma Oya	120	0	60	410
Inginiyagala	9	7	0	73
Udawalawe	4	3	0	43
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,153
Puttalam Coal III	270	270	270	5,810
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	150	3,195
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	16	10	196
Barge CEB	60	60	60	952
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	150	0	0
West Coast	270	270	0	0
Sobadhanavi	220	212	0	0
Total	3,602	2,772	2,204	35,981

Note-

Plant availability is the availability recorded at 6 am on

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1.9 Contribution to the Night Peak in MW

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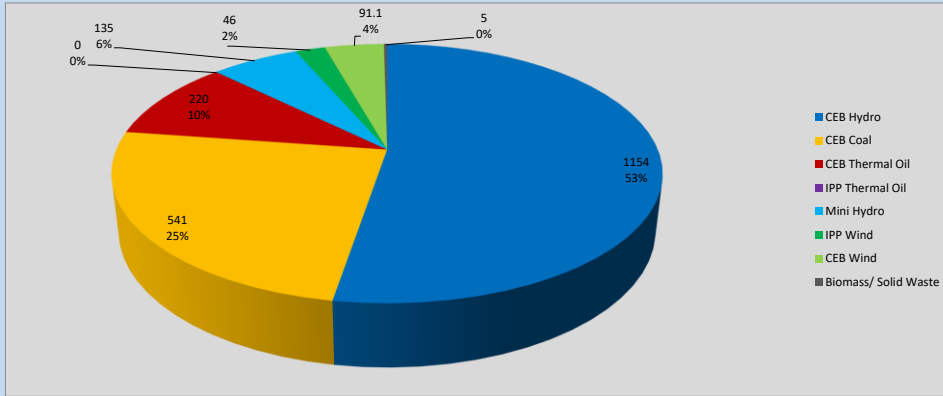


Table 05

CEB Hydro	1154	MW
CEB Coal	541	MW
CEB Thermal Oil	220	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	135	MW
IPP Wind	46	MW
CEB Wind	91.1	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

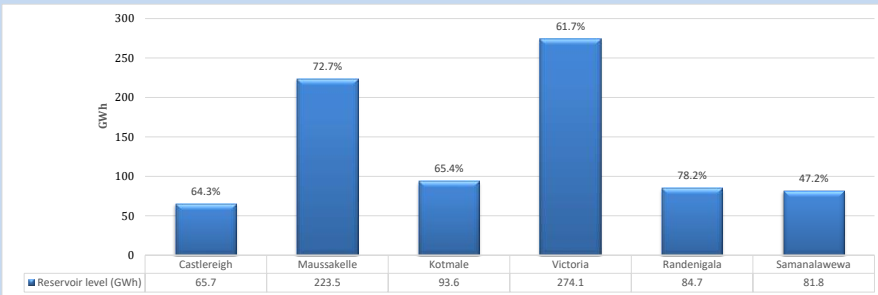
Table 06

Night Peak*	2,193	MW
Day Peak Maximum Demand	1,686	MW
Day Peak Minimum Demand	1,072	MW
Off Peak Minimum Demand	1,370	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 18, 2024



Total Reservoir Level: 823.4 GWh
% of Total capacity: 64.4%

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

October 17, 2024

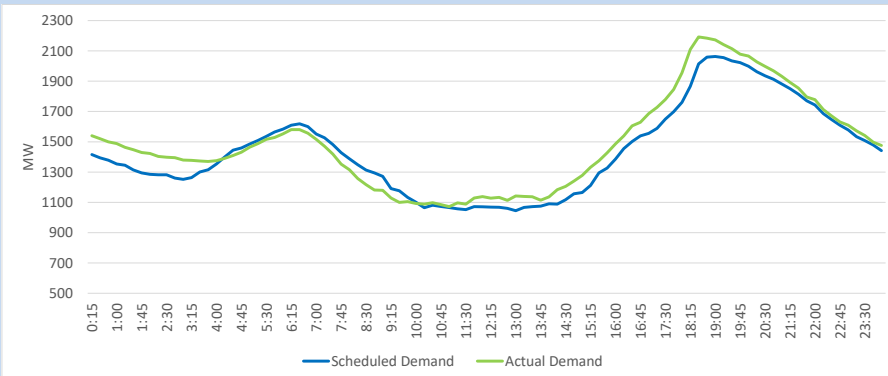
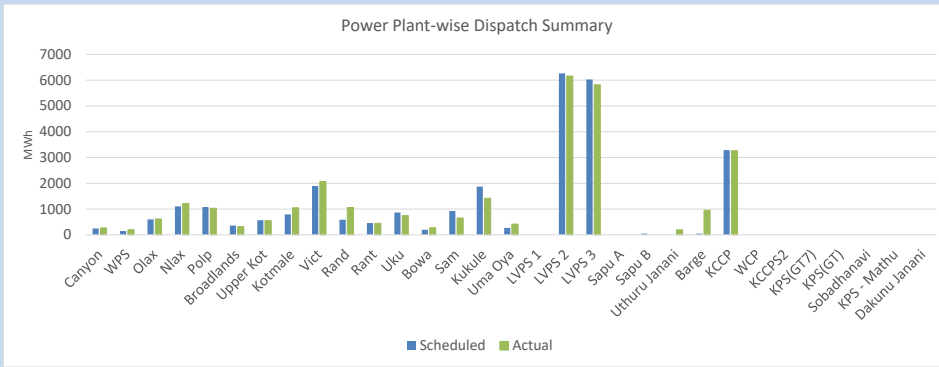


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,953	12,312	359
CEB Coal	12,288	11,978	(310)
CEB Thermal Oil	3,376	4,412	1,036
IPP Thermal Oil	-	-	-
NCRE (Telemetered)	6,920	7,031	111
Total	34,538	35,733	1,196

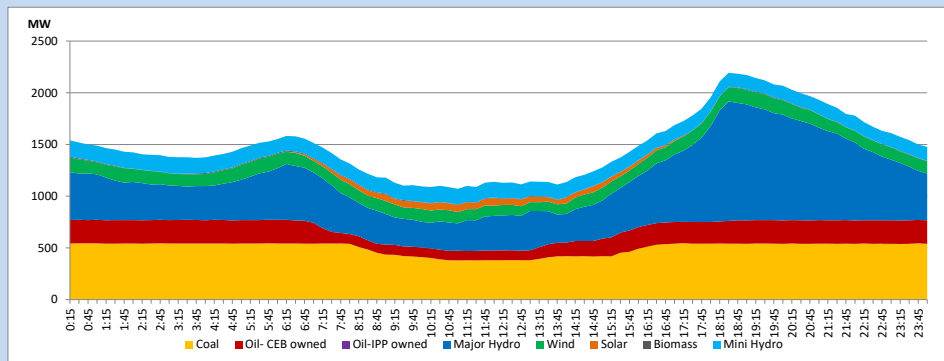
1.12 Power Plant-wise Dispatch Summary

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1.13 Daily Load Curve

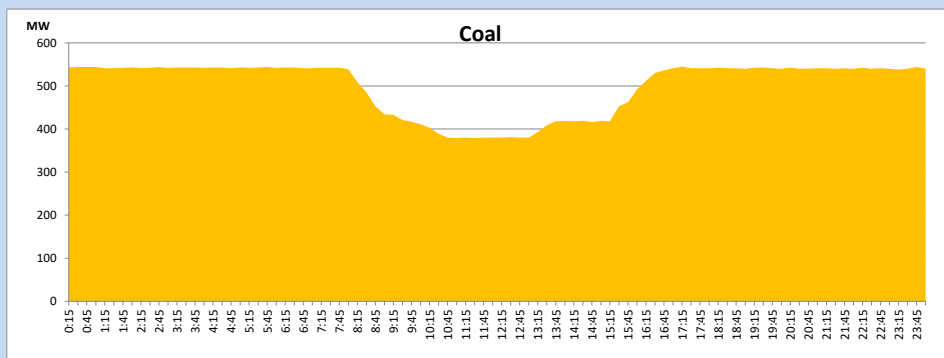
October 17, 2024



Solar and wind data is based on Telemetered Power Stations only

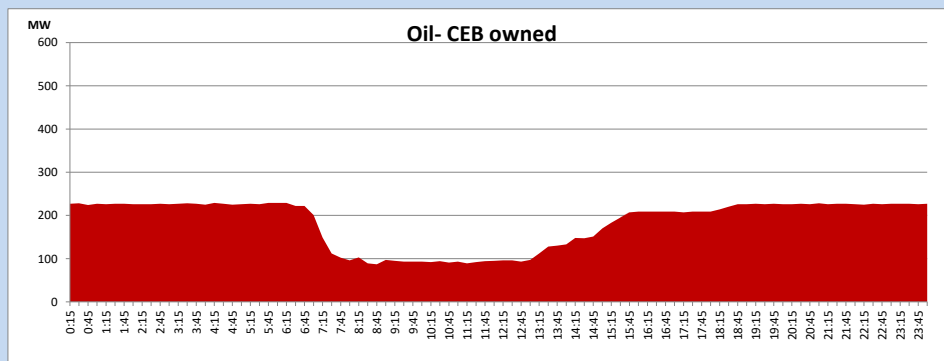
Coal Generation during

October 17, 2024



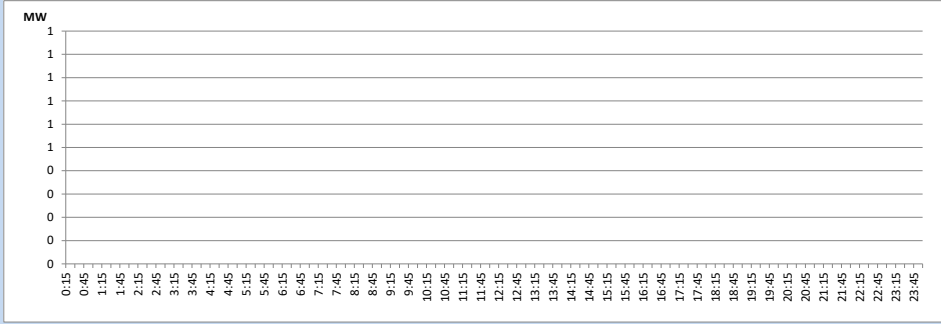
CEB Oil Plant Generation during

October 17, 2024



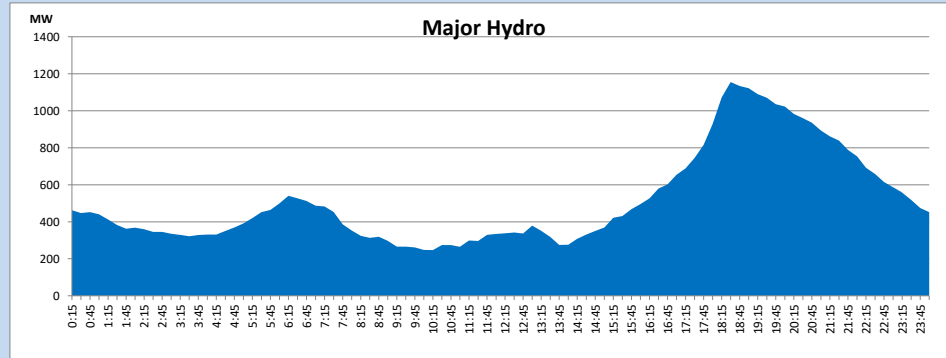
IPP Oil Plant Generation during

October 17, 2024



Major Hydro Generation during

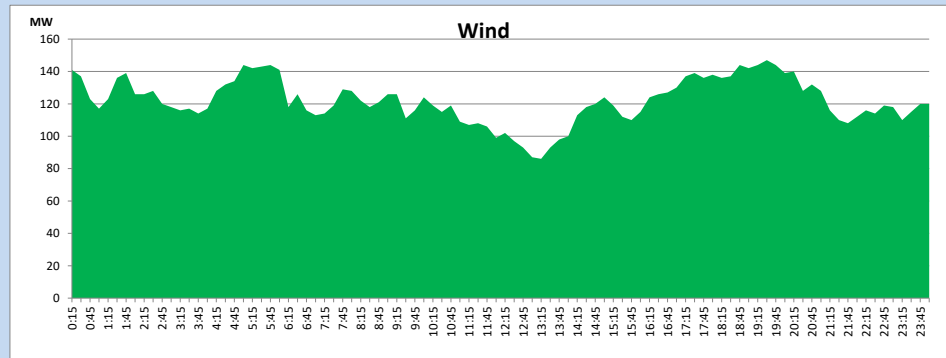
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Wind Generation during

October 17, 2024

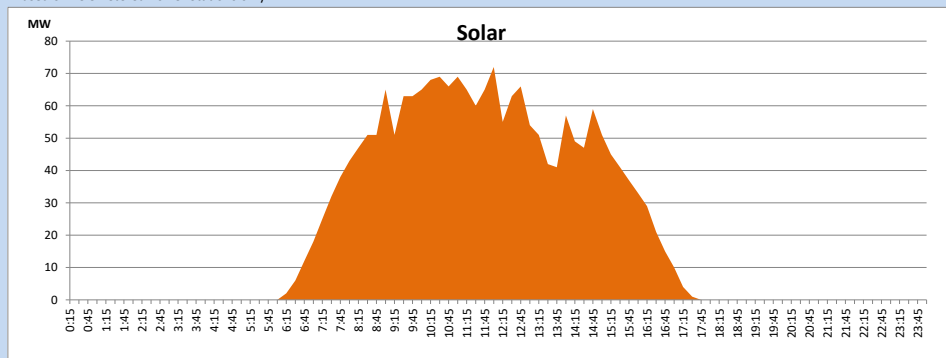
Based on Telemetered Power Stations only



Solar Generation during

October 17, 2024

Based on Telemetered Power Stations only

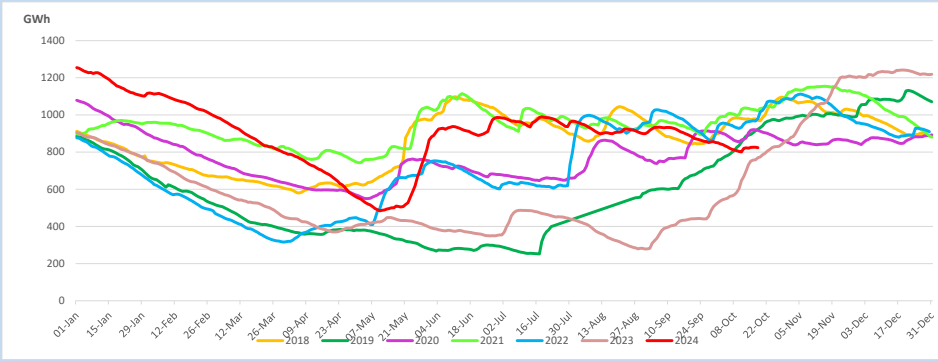


1.14 Major Incidents reported during the day

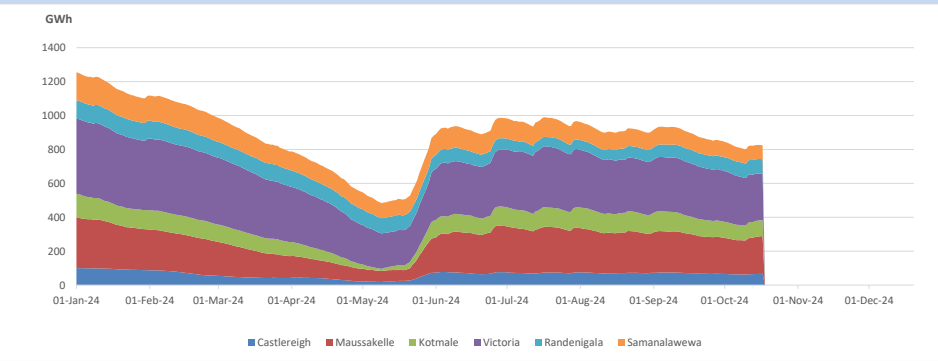
October 17, 2024

- 1) Kukul pond spilling stopped at 12:10hrs.

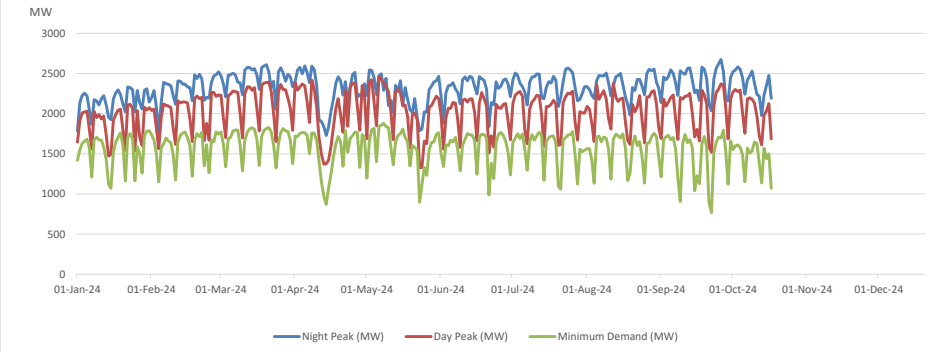
2. Comparison of Total Reservoir Storage Levels with Past Years



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

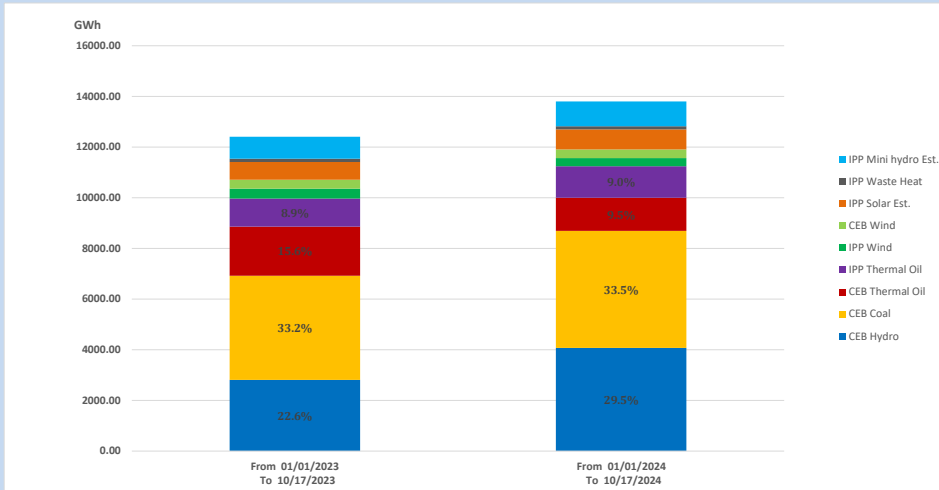


4. Variation of Demand during the current year



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 10/17/2023

12406 GWh

From 01/01/2024 To 10/17/2024

13799 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