

# Generation and Reservoirs Statistics

October 18, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

1. Daily Generation Mix

October 18, 2024

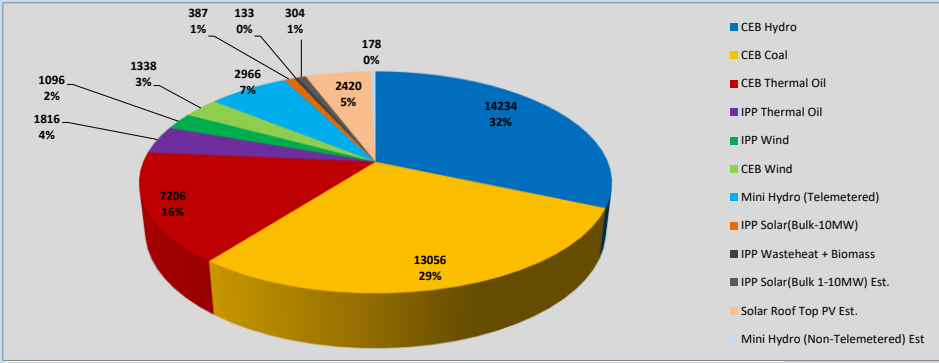


Table 01

	Generation (MWh)
CEB Hydro	14234
CEB Coal	13056
CEB Thermal Oil	7206
IPP Thermal Oil	1816
IPP Wind	1096
CEB Wind	1338
Mini Hydro (Telemetered)	2966
IPP Solar (Bulk)	387
IPP Waste heat + Biomass	133
<b>Total Generation (Excluding estimated figures)</b>	<b>42,232</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	178
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
<b>Total Generation (Including estimated figures)</b>	<b>45,134</b>

\* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	231	29.08%
CEB Coal	232	29.18%
CEB Thermal Oil	113	14.14%
IPP Thermal	74	9.35%
IPP Wind	15	1.91%
CEB Wind	18	2.31%
Mini Hydro *	53	6.62%
IPP Solar *	55	6.92%
IPP Waste heat + BMP	4	0.48%
<b>Total</b>	<b>796</b>	

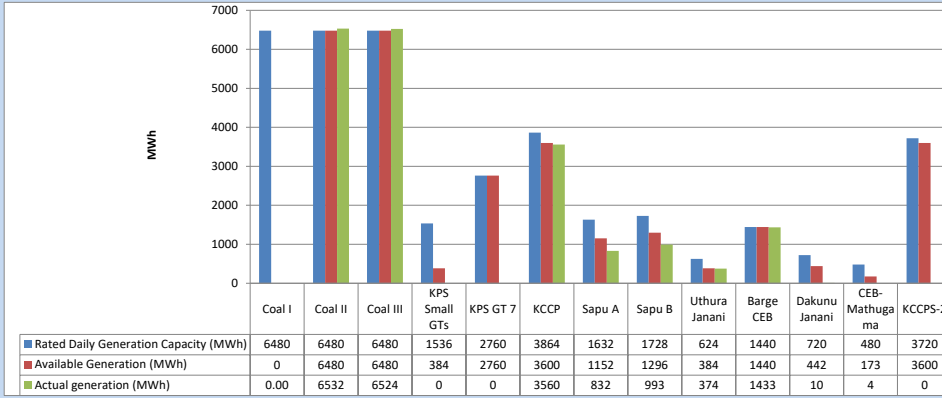
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,085	29.51%
CEB Coal	4,633	33.46%
CEB Thermal Oil	1,314	9.49%
IPP Thermal	1,248	9.02%
IPP Wind	327	2.36%
CEB Wind	337	2.43%
Mini Hydro *	982	7.10%
IPP Solar *	801	5.79%
IPP Waste heat	118	0.85%
<b>Total</b>	<b>13,844</b>	

\*Including estimated contribution from non telemetered plants

### 1.2 CEB owned Thermal Plant Dispatch

October 18, 2024

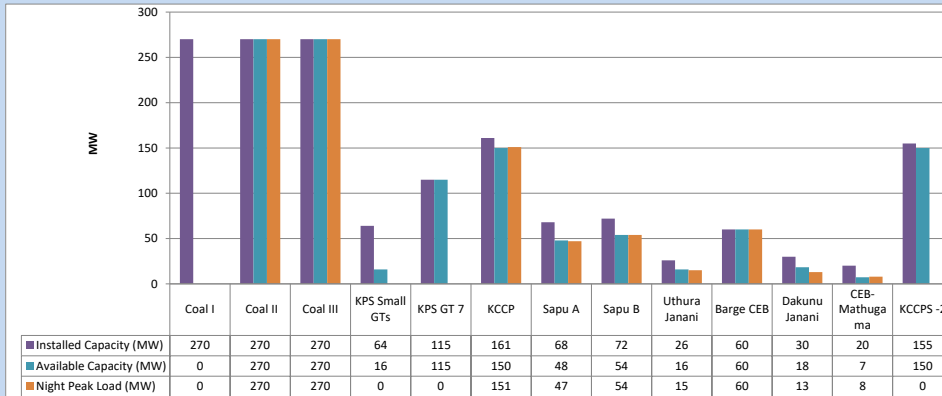


Available Generation is estimated based on plant availability at 6.00am on

October 19, 2024

### 1.3 CEB owned Thermal Plant Loading at the Night Peak

October 18, 2024

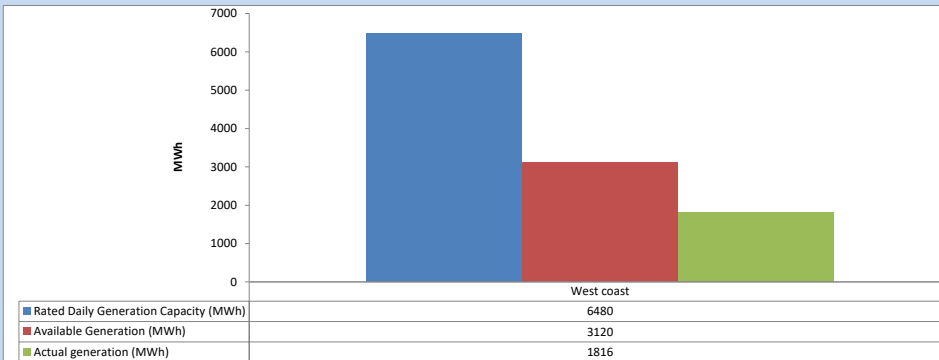


Plant availability is recorded at 6.00 am on

October 19, 2024

### 1.4 IPP owned Thermal Plant Dispatch

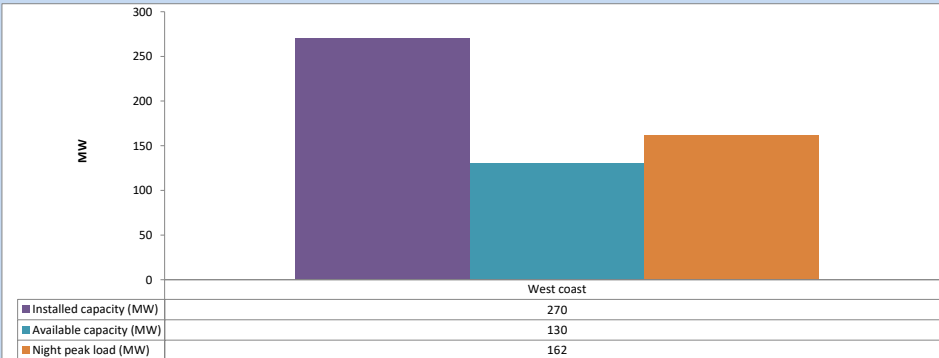
October 18, 2024



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

October 19, 2024

### 1.5 IPP owned Thermal Plant Loading at the Night Peak

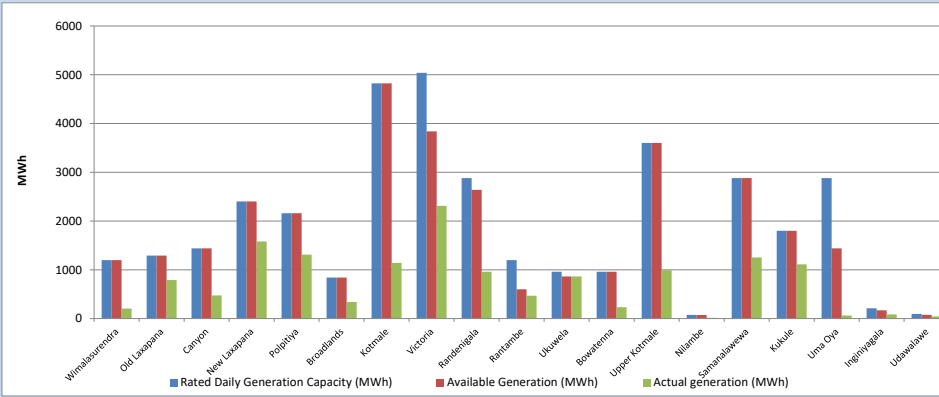


Plant availability is recorded at 6.00 am on

October 19, 2024

1.6 Major Hydro Plant Dispatch

October 18, 2024

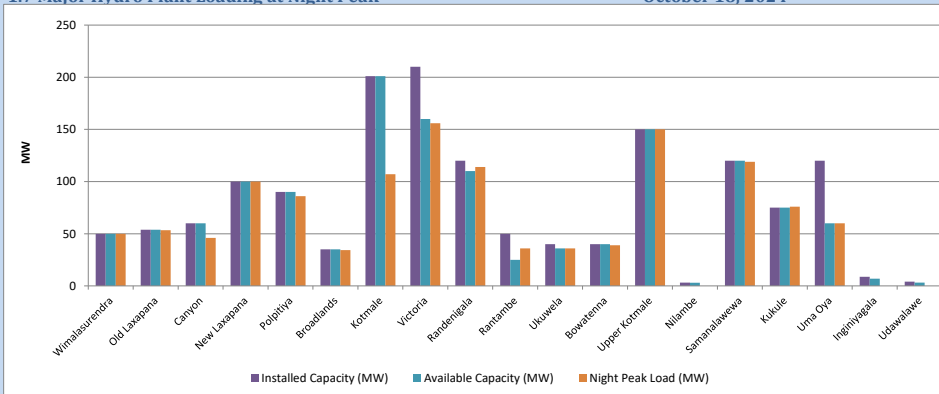


Available Generation is estimated based on plant availability at 6.00am on

October 19, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 18, 2024



Plant availability is recorded at 6.00 am on

October 19, 2024

1.8 Summary of Major Plant performance

October 18, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	203
Old Laxapana	54	54	53	790
Canyon	60	60	46	474
New Laxapana	100	100	100	1,580
Polpitiya	90	90	86	1,310
Broadlands	35	35	34	340
Kotmale	201	201	107	1,140
Victoria	210	160	156	2,313
Randenigala	120	110	114	961
Rantambe	50	25	36	468
Ukuwela	40	36	36	865
Bowatenna	40	40	39	232
Upper Kotmale	150	150	150	991
Nilambe	3	3	0	15
Samanalawewa	120	120	119	1,253
Kukule	75	75	76	1,112
Uma Oya	120	60	60	62
Inginipagala	9	7	0	84
Udawalawe	4	3	0	43
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,532
Puttalam Coal III	270	270	270	6,524
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	151	3,560
Sapugaskanda A	68	48	47	832
Sapugaskanda B	72	54	54	993
Uthura Janani	26	16	15	374
Barge CEB	60	60	60	1,433
CEB-Hambantota	30	18	13	10
CEB-Mathugama	20	7	8	4
KCCPS -2	155	150	0	0
West Coast	270	130	162	1,816
Sobadhanavi	220	212	0	0
Total	3,602	2,684	2,522	42,234

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

October 19, 2024

### 1.9 Contribution to the Night Peak in MW

October 18, 2024

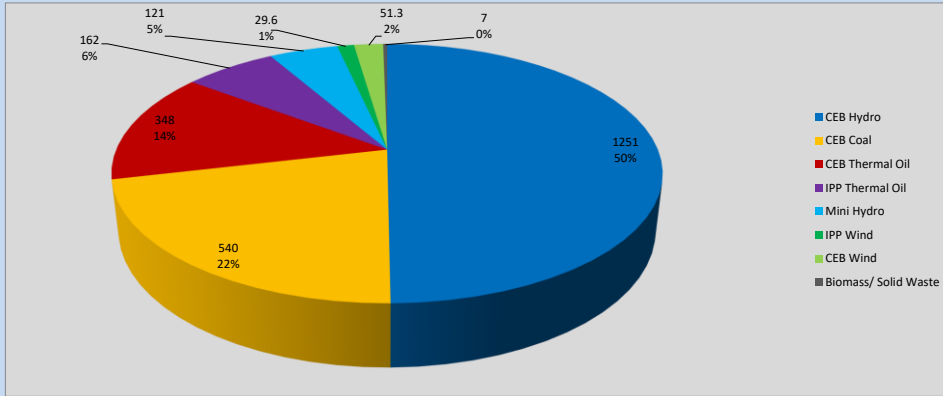


Table 05

CEB Hydro	1251	MW
CEB Coal	540	MW
CEB Thermal Oil	348	MW
IPP Thermal Oil	162	MW
Mini Hydro (Telemetered)	121	MW
IPP Wind	29.6	MW
CEB Wind	51.3	MW
Biomass/ Solid Waste	7	MW

### Recorded Peak Demand Data

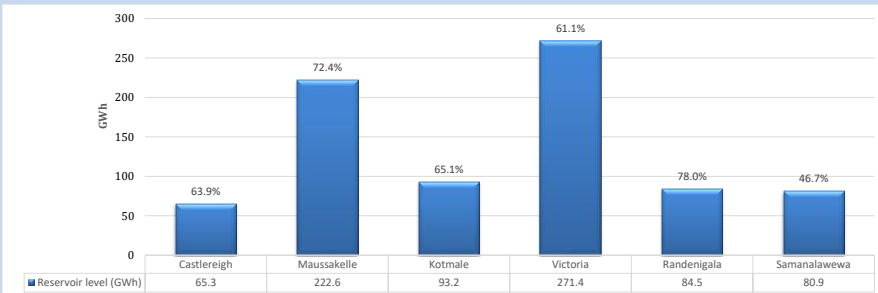
Table 06

Night Peak*	2,510	MW
Day Peak Maximum Demand	2,194	MW
Day Peak Minimum Demand	1,487	MW
Off Peak Minimum Demand	1,303	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 19, 2024



Total Reservoir Level  
817.9 GWh  
% of Total capacity  
64.0%

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

October 18, 2024

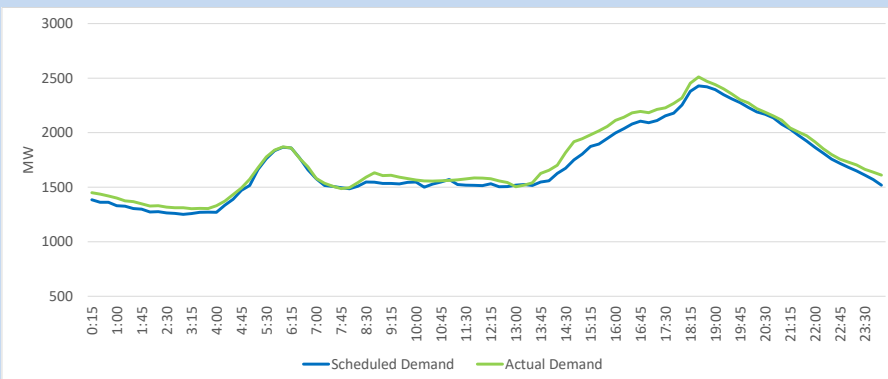
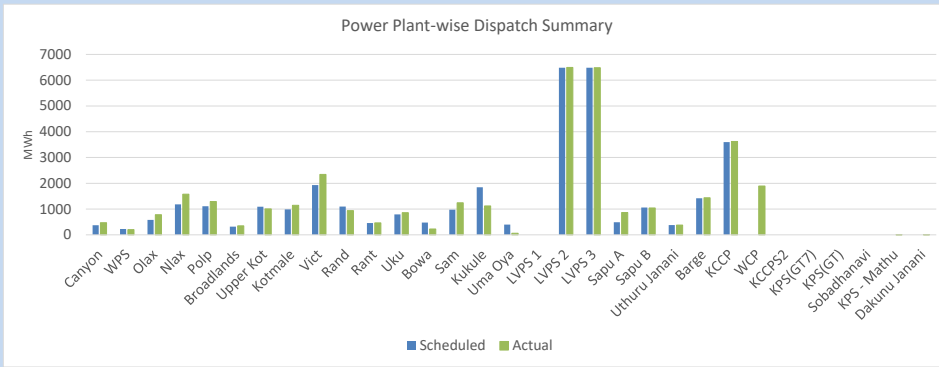


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	13,835	14,083	248
CEB Coal	12,960	12,979	19
CEB Thermal Oil	6,942	7,360	418
IPP Thermal Oil		1,891	1,891
NCRE (Telemetered)	7,072	5,767	(1,306)
<b>Total</b>	<b>40,809</b>	<b>42,079</b>	<b>1,269</b>

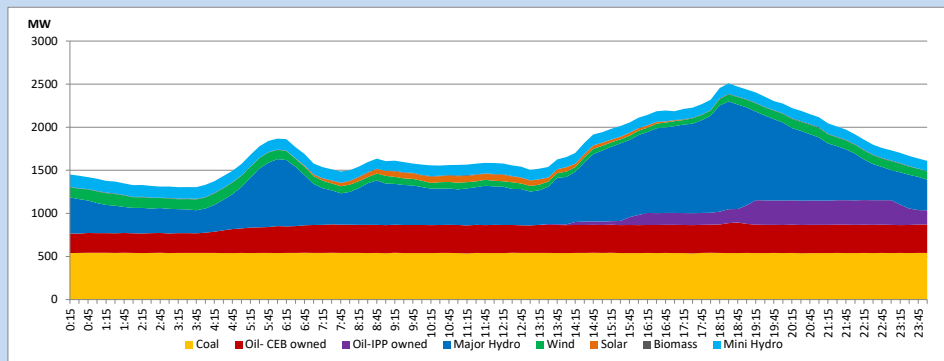
### 1.12 Power Plant-wise Dispatch Summary

October 18, 2024



### 1.13 Daily Load Curve

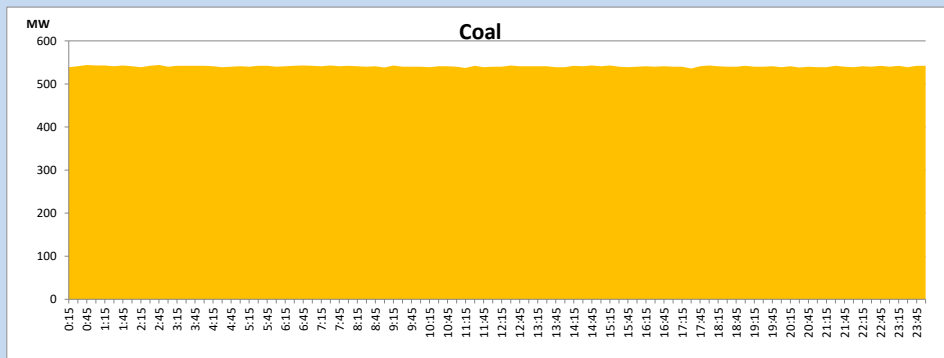
October 18, 2024



Solar and wind data is based on Telemetered Power Stations only

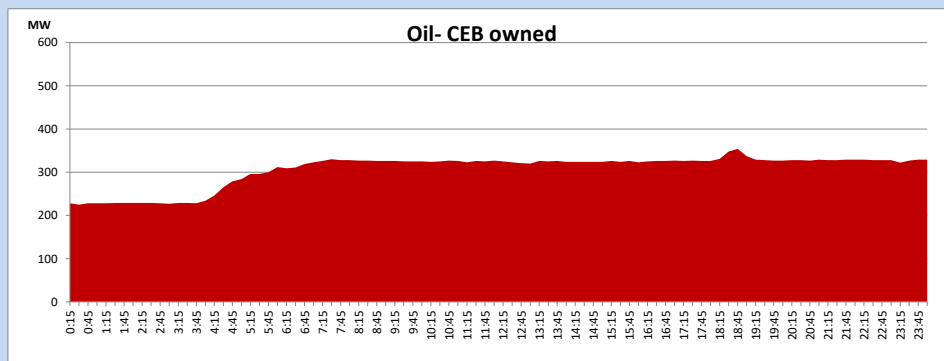
### Coal Generation during

October 18, 2024



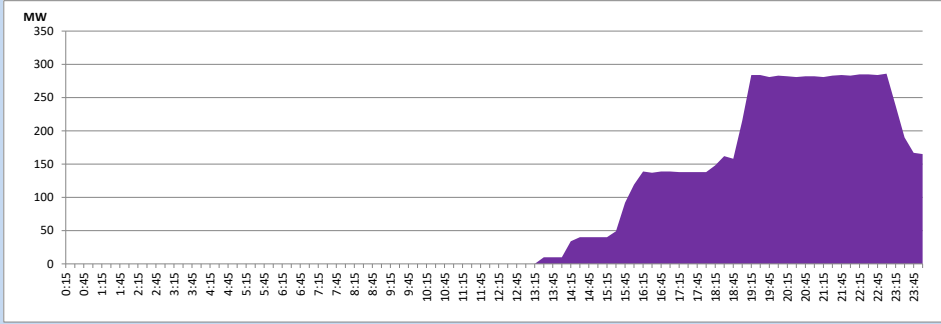
### CEB Oil Plant Generation during

October 18, 2024



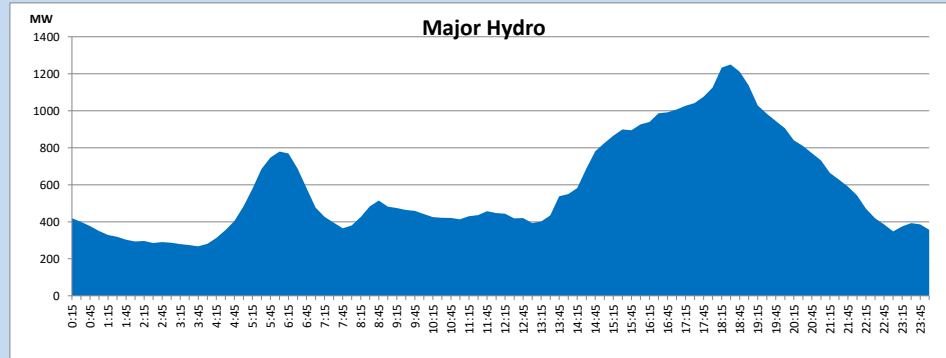
IPP Oil Plant Generation during

October 18, 2024



Major Hydro Generation during

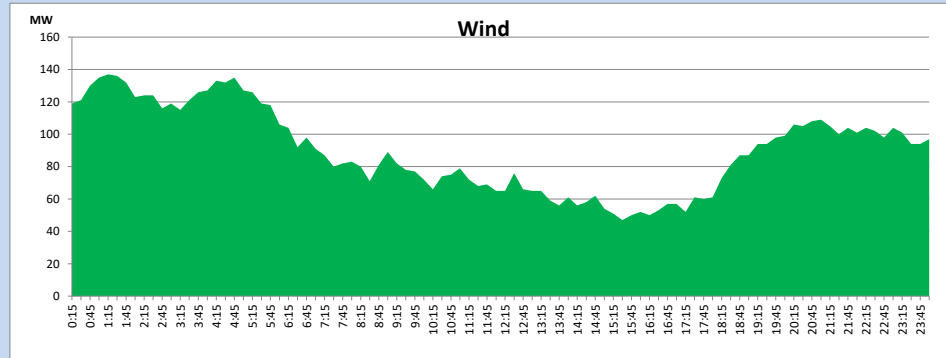
October 18, 2024



Wind Generation during

October 18, 2024

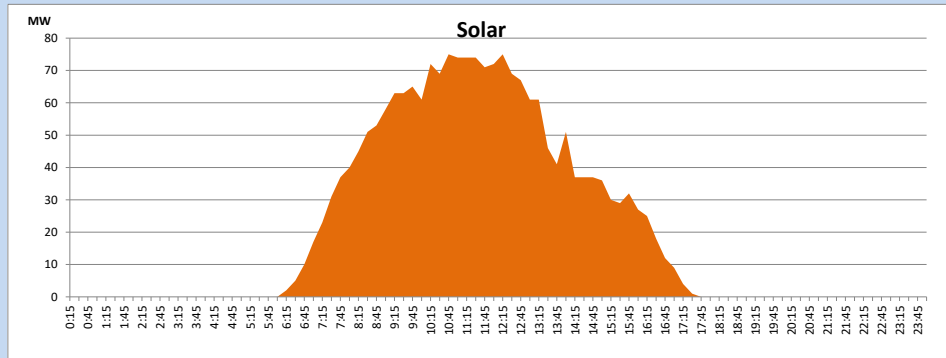
Based on Telemetered Power Stations only



Solar Generation during

October 18, 2024

Based on Telemetered Power Stations only

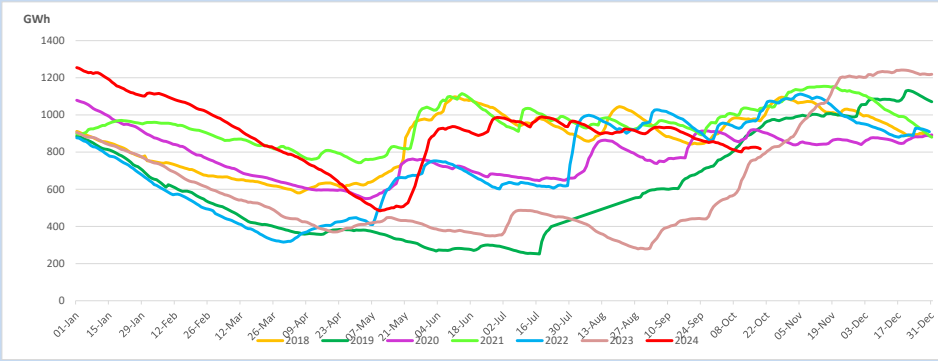


1.14 Major Incidents reported during the day

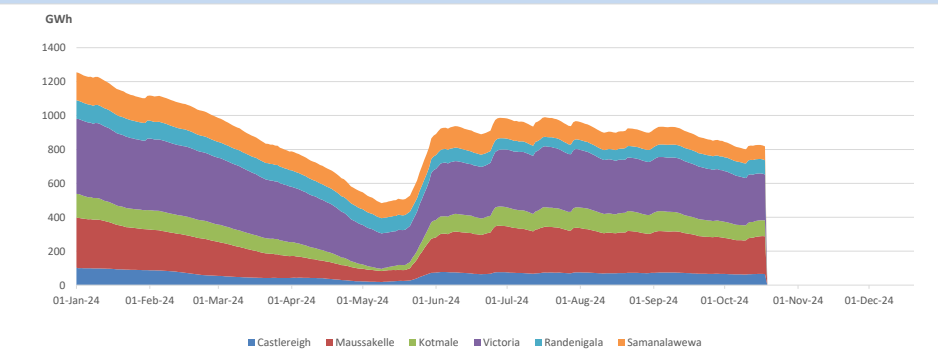
October 18, 2024

- 1) WCP GT 02 was made unavailable for generation from 16:00hrs due to a fuel system issue. WCP reached full load at 19:01hrs.

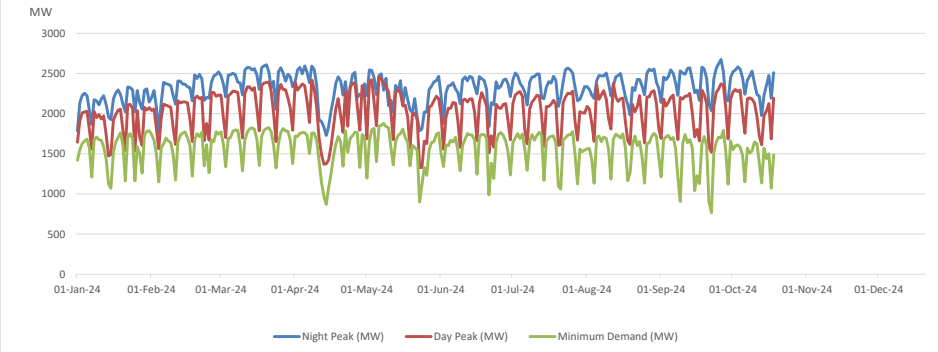
## 2. Comparison of Total Reservoir Storage Levels with Past Years



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



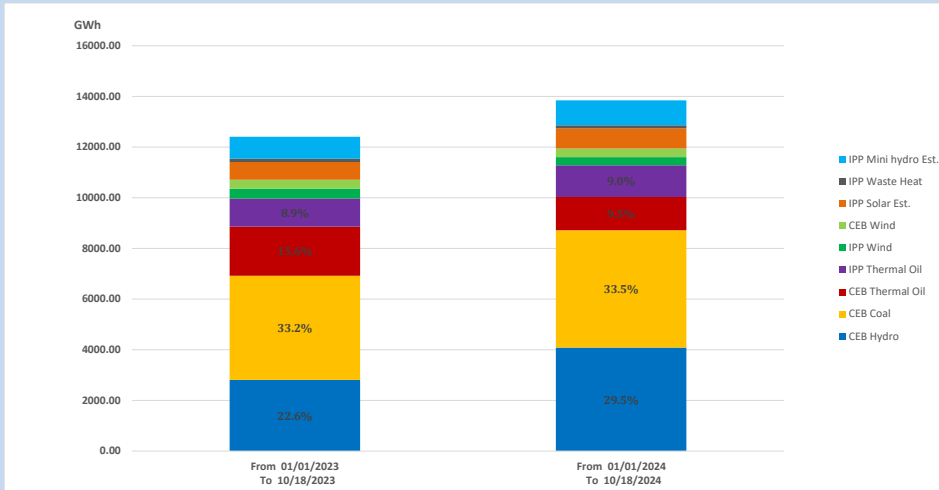
## 4. Variation of Demand during the current year



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 10/18/2023

12406 GWh

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

13844 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