

Generation and Reservoirs Statistics

October 11, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 11, 2024

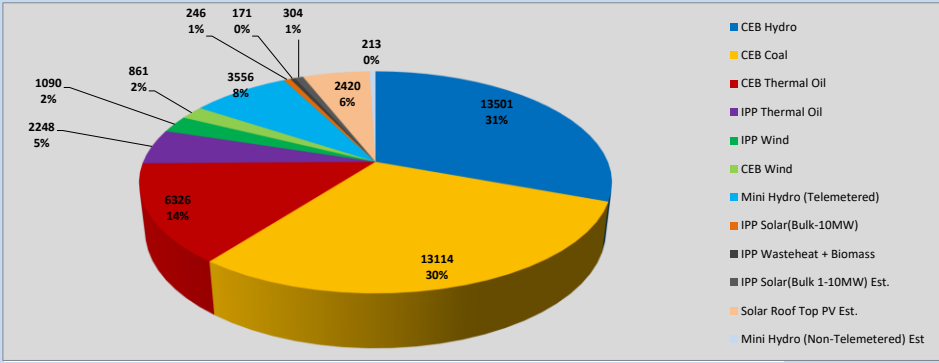


Table 01

	Generation (MWh)
CEB Hydro	13501
CEB Coal	13114
CEB Thermal Oil	6326
IPP Thermal Oil	2248
IPP Wind	1090
CEB Wind	861
Mini Hydro (Telemetered)	3556
IPP Solar (Bulk)	246
IPP Waste heat + Biomass	171
Total Generation (Excluding estimated figures)	41,113
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	213
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	44,050

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	138	27.37%
CEB Coal	143	28.42%
CEB Thermal Oil	80	15.97%
IPP Thermal	61	12.12%
IPP Wind	9	1.79%
CEB Wind	11	2.27%
Mini Hydro *	24	4.79%
IPP Solar *	34	6.72%
IPP Waste heat + BMP	3	0.56%
Total	503	

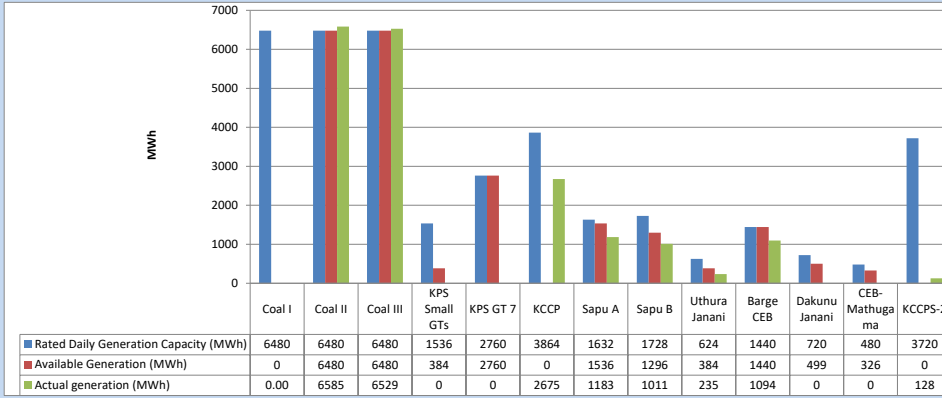
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,991	30.84%
CEB Coal	4,543	35.11%
CEB Thermal Oil	1,281	9.90%
IPP Thermal	624	4.82%
IPP Wind	320	2.48%
CEB Wind	330	2.55%
Mini Hydro *	954	7.37%
IPP Solar *	780	6.03%
IPP Waste heat	117	0.91%
Total	12,940	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 11, 2024

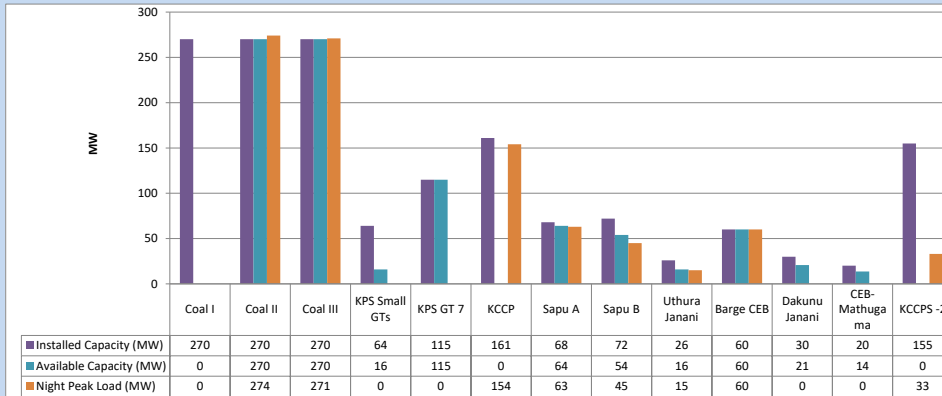


Available Generation is estimated based on plant availability at 6.00am on

October 12, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 11, 2024

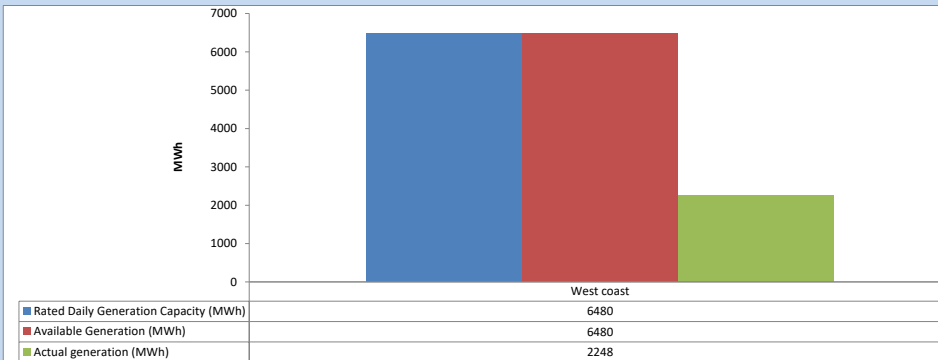


Plant availability is recorded at 6.00 am on

October 12, 2024

1.4 IPP owned Thermal Plant Dispatch

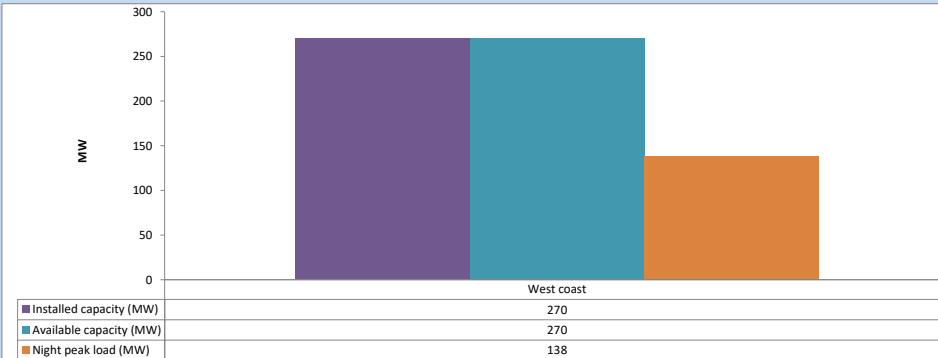
October 11, 2024



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

October 12, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

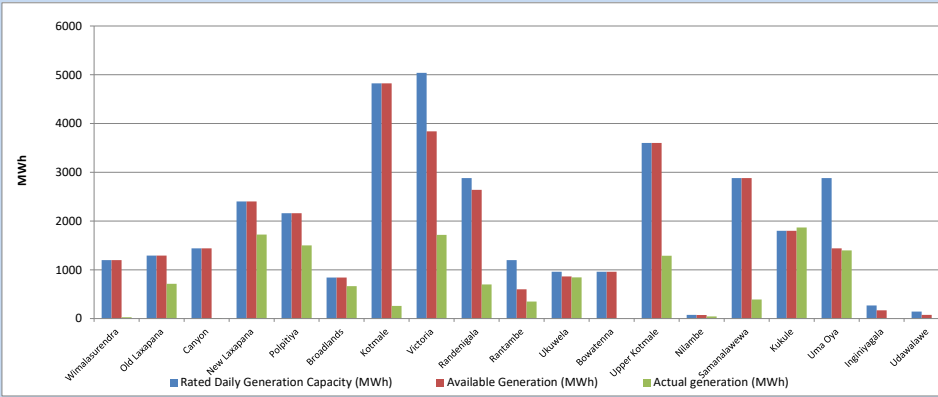


Plant availability is recorded at 6.00 am on

October 12, 2024

1.6 Major Hydro Plant Dispatch

October 11, 2024

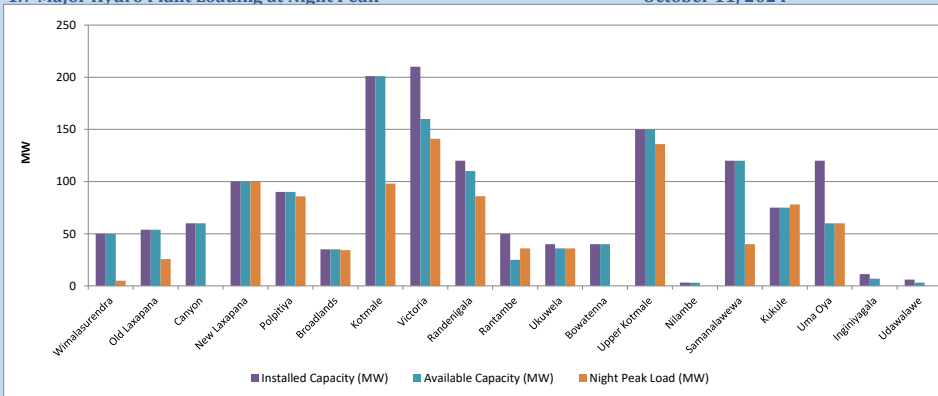


Available Generation is estimated based on plant availability at 6.00am on

October 12, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 11, 2024



Plant availability is recorded at 6.00 am on

October 12, 2024

1.8 Summary of Major Plant performance

October 11, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	5	28
Old Laxapana	54	54	26	714
Canyon	60	60	0	10
New Laxapana	100	100	100	1,724
Polpitiya	90	90	86	1,500
Broadlands	35	35	34	665
Kotmale	201	201	98	260
Victoria	210	160	141	1,717
Randenigala	120	110	86	701
Rantambe	50	25	36	349
Ukuwela	40	36	36	843
Bowatenna	40	40	0	0
Upper Kotmale	150	150	136	1,290
Nilambe	3	3	0	42
Samanalawewa	120	120	40	391
Kukule	75	75	78	1,869
Uma Oya	120	60	60	1,398
Inginipagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	274	6,585
Puttalam Coal III	270	270	271	6,529
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	154	2,675
Sapugaskanda A	68	64	63	1,183
Sapugaskanda B	72	54	45	1,011
Uthura Janani	26	16	15	235
Barge CEB	60	60	60	1,094
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	33	128
West Coast	270	270	138	2,248
Sobadhanavi	220	212	0	0
Total	3,606	2,548	2,252	41,113

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

October 12, 2024

1.9 Contribution to the Night Peak in MW

October 11, 2024

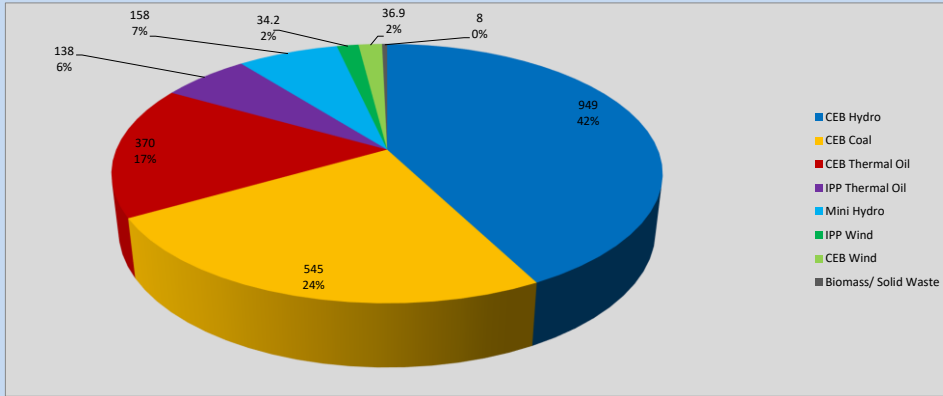


Table 05

CEB Hydro	949	MW
CEB Coal	545	MW
CEB Thermal Oil	370	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	158	MW
IPP Wind	34.2	MW
CEB Wind	36.9	MW
Biomass/ Solid Waste	8	MW

Recorded Peak Demand Data

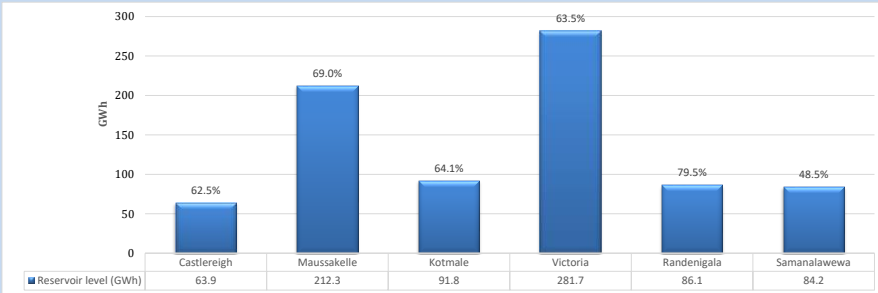
Table 06

Night Peak*	2,240	MW
Day Peak Maximum Demand	1,966	MW
Day Peak Minimum Demand	1,630	MW
Off Peak Minimum Demand	1,277	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 12, 2024



Total Reservoir Level
820 GWh
% of Total capacity
64.1%

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

October 11, 2024

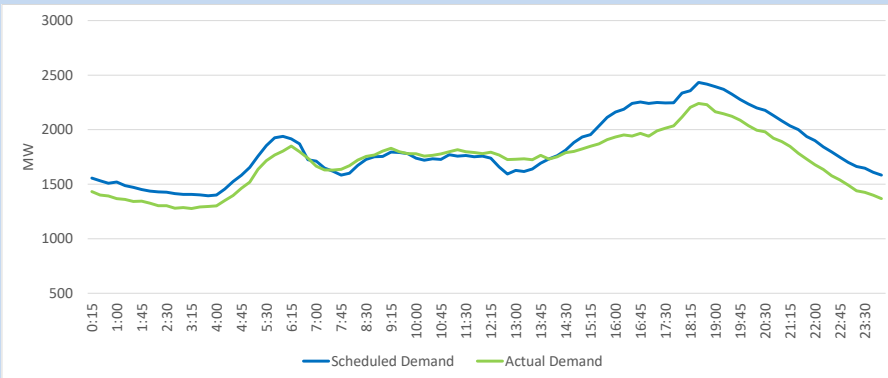
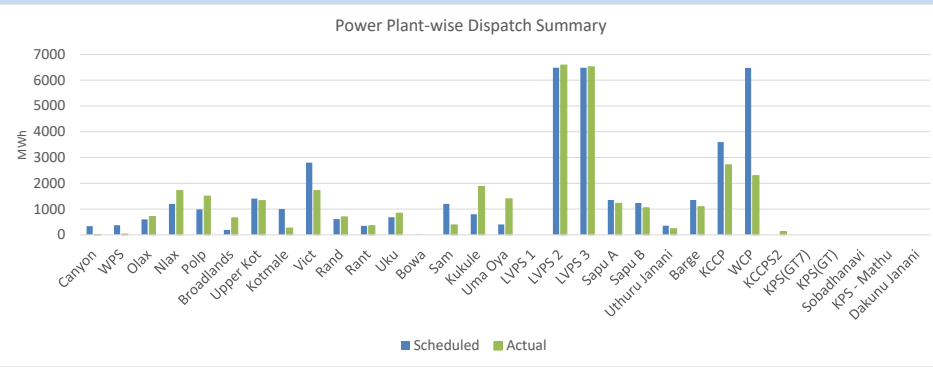


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,949	13,477	527
CEB Coal	12,960	13,104	144
CEB Thermal Oil	7,890	6,443	(1,447)
IPP Thermal Oil	6,479	2,297	(4,182)
NCRE (Telemetered)	3,321	5,850	2,529
Total	43,600	41,171	(2,430)

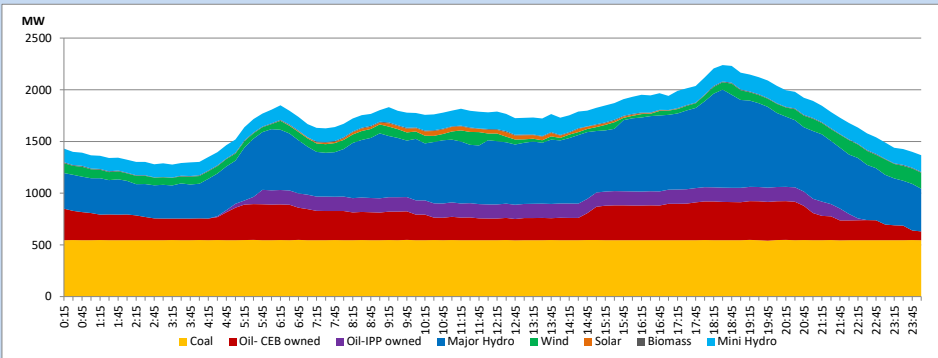
1.12 Power Plant-wise Dispatch Summary

October 11, 2024



1.13 Daily Load Curve

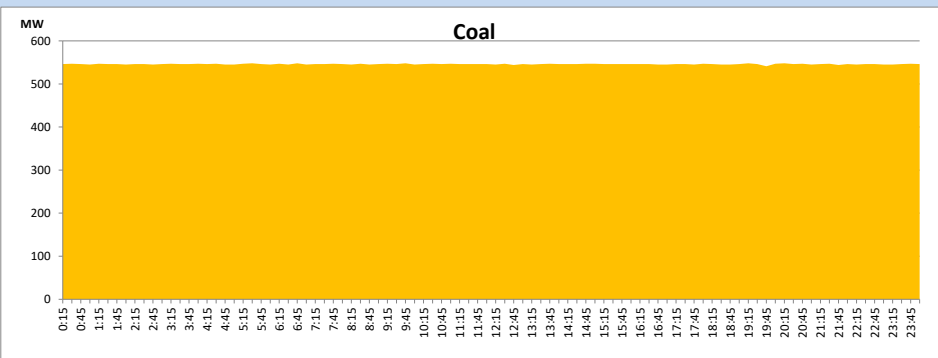
October 11, 2024



Solar and wind data is based on Telemetered Power Stations only

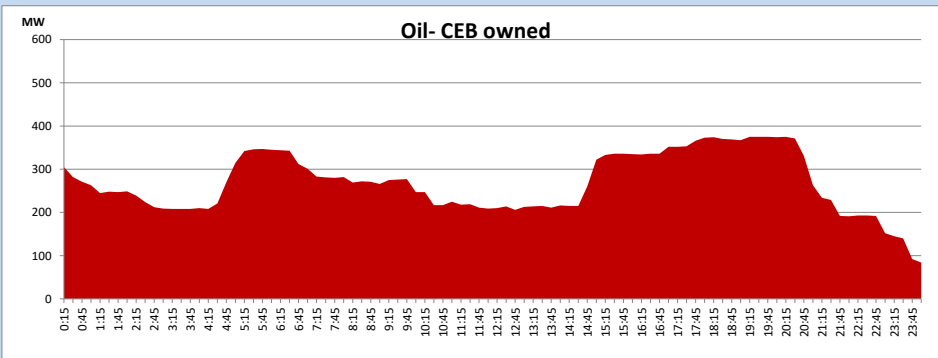
Coal Generation during

October 11, 2024



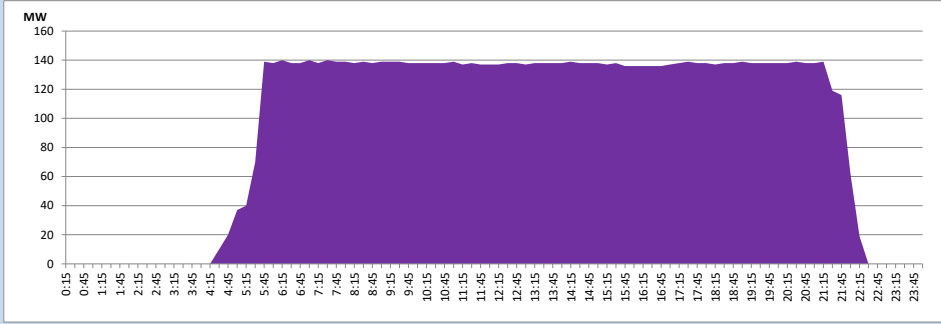
CEB Oil Plant Generation during

October 11, 2024



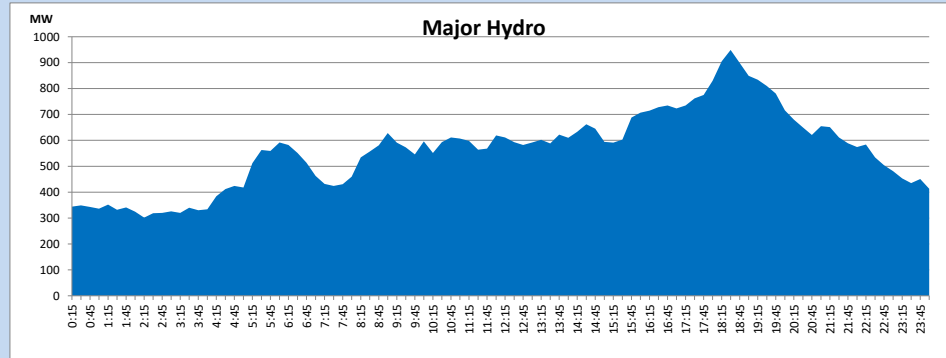
IPP Oil Plant Generation during

October 11, 2024



Major Hydro Generation during

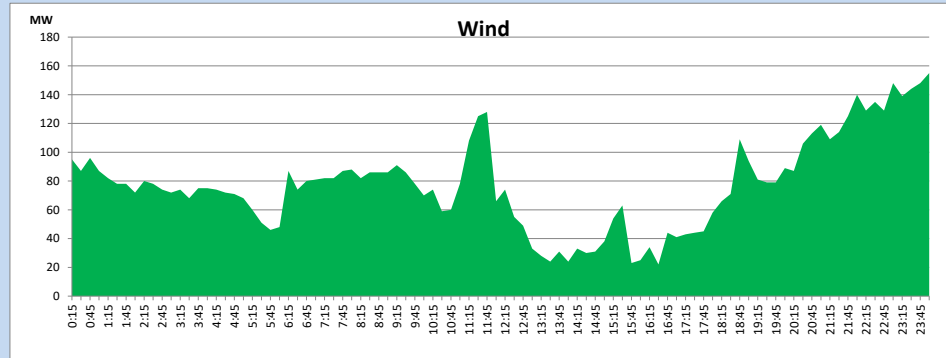
October 11, 2024



Wind Generation during

October 11, 2024

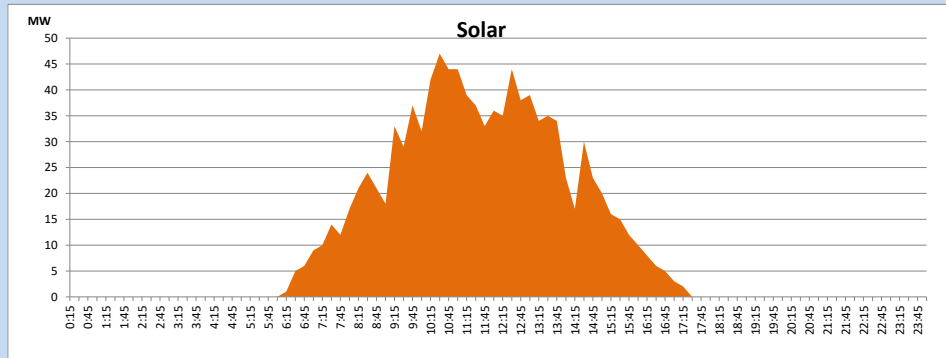
Based on Telemetered Power Stations only



Solar Generation during

October 11, 2024

Based on Telemetered Power Stations only

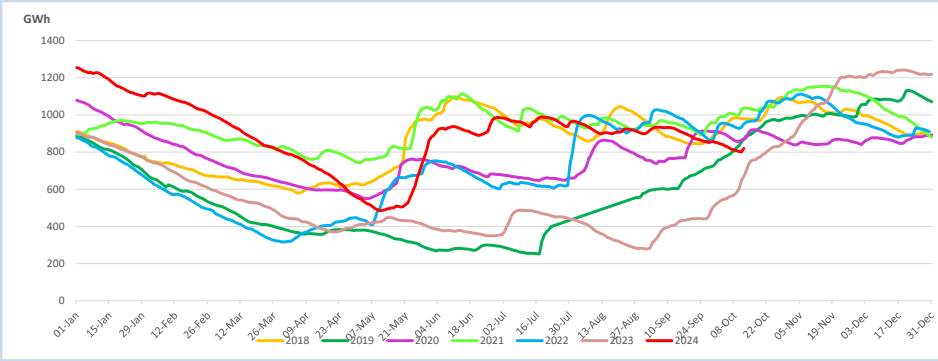


1.14 Major Incidents reported during the day

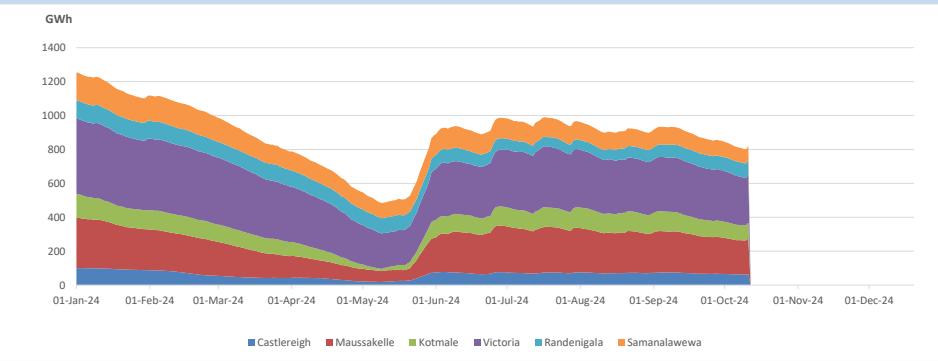
October 11, 2024

- 1) Laxapaana pond spilling started at 08:47hrs and spilling stopped at 15:02hrs.
- 2) Broadlands pond spilling started at 08:27hrs and spilling stopped at 20:10hrs.
- 3) Kerawalapitiya GSS 220/33kV T/F 02 which tripped on 08.10.2024, was normalized at 18:15hrs.
- 4) Kukul Ganga pond spilling continues to the present hour.

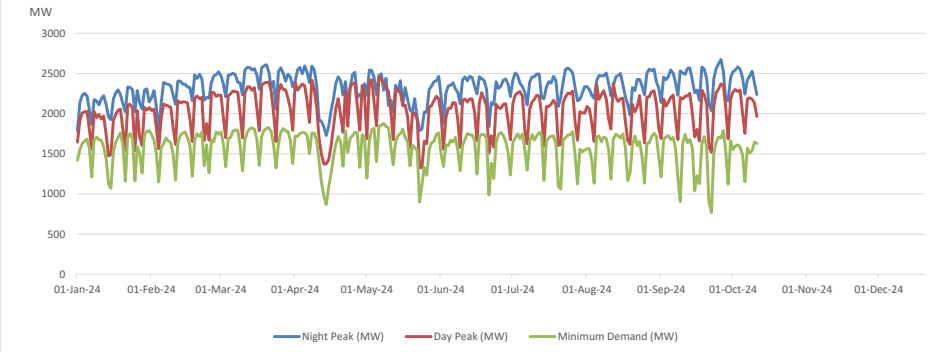
2. Comparison of Total Reservoir Storage Levels with Past Years



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

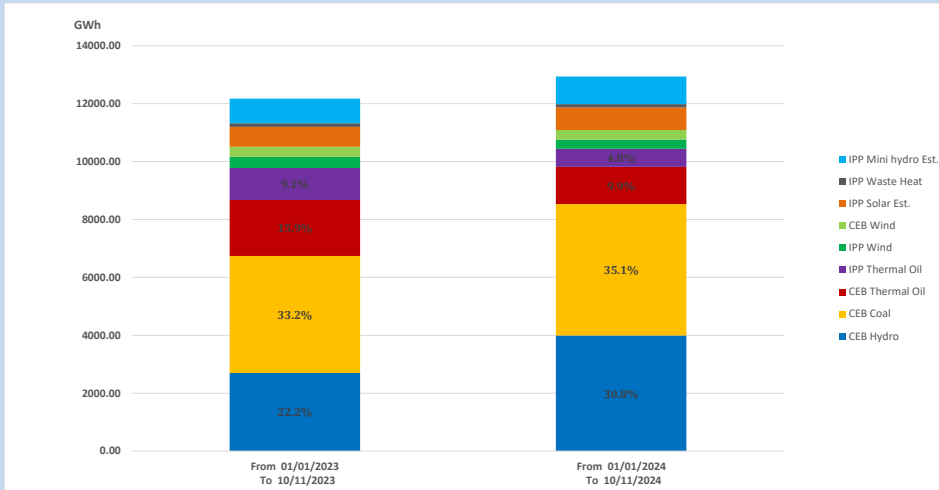


4. Variation of Demand during the current year



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 10/11/2023

12174 GWh

From 01/01/2024 To 10/11/2024

12940 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