Generation and Reservoirs Statistics

October 8, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 8, 2024

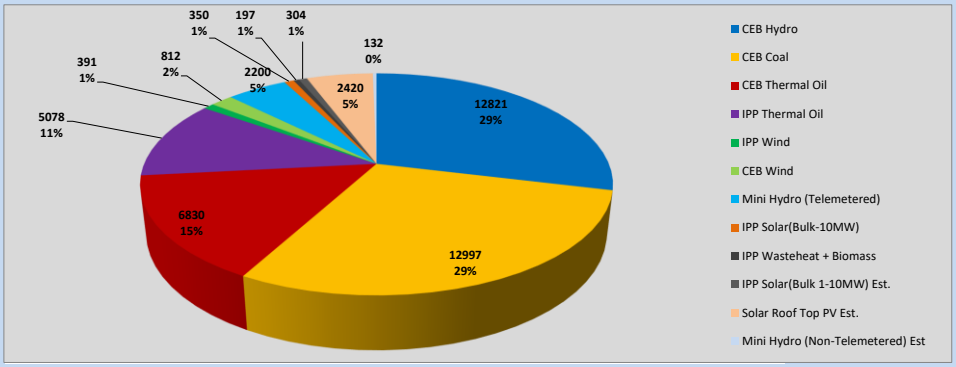


Table 01

	Generation (MWh)
CEB Hydro	12821
CEB Coal	12997
CEB Thermal Oil	6830
IPP Thermal Oil	5078
IPP Wind	391
CEB Wind	812
Mini Hydro (Telemetered)	2200
IPP Solar (Bulk)	350
IPP Waste heat + Biomass	197
Total Generation (Excluding estimated figures)	41,676
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	132
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	**44,532**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

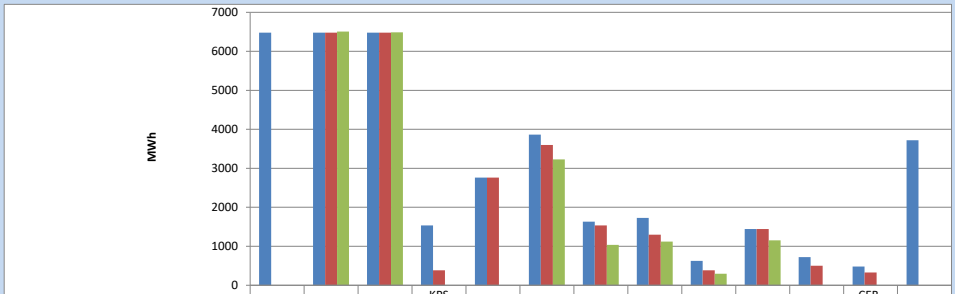
Category	Dispatch (GWh)	
CEB Hydro	99	26.90%
CEB Coal	104	28.28%
CEB Thermal Oil	59	16.05%
IPP Thermal	46	12.66%
IPP Wind	7	1.90%
CEB Wind	9	2.52%
Mini Hydro *	16	4.29%
IPP Solar *	25	6.74%
IPP Waste heat + BMP	2	0.65%
Total	**367**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,952	30.87%
CEB Coal	4,504	35.18%
CEB Thermal Oil	1,260	9.84%
IPP Thermal	609	4.76%
IPP Wind	318	2.49%
CEB Wind	327	2.56%
Mini Hydro *	945	7.38%
IPP Solar *	771	6.02%
IPP Waste heat	117	0.91%
Total	**12,804**	

*Including estimated contribution from non telemetered plants

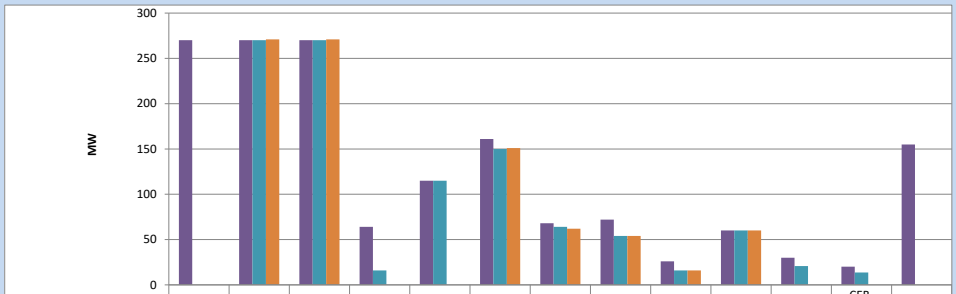
1.2 CEB owned Thermal Plant Dispatch October 8, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1632	1728	624	1440	720	480	3720
Available Generation (MWh)	0	6480	6480	384	2760	3600	1536	1296	384	1440	499	326	0
Actual generation (MWh)	0.00	6509	6488	0	0	3227	1034	1120	297	1152	0	0	0

Available Generation is estimated based on plant availability at 6.00am on October 9, 2024

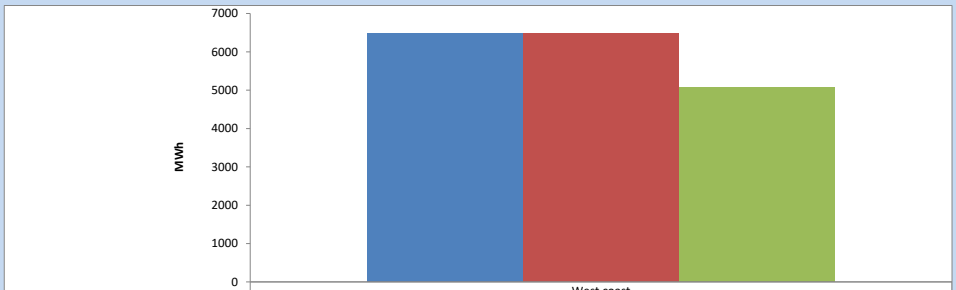
1.3 CEB owned Thermal Plant Loading at the Night Peak October 8, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	68	72	26	60	30	20	155
Available Capacity (MW)	0	270	270	16	115	150	64	54	16	60	21	14	0
Night Peak Load (MW)	0	271	271	0	0	151	62	54	16	60	0	0	0

Plant availability is recorded at 6.00 am on October 9, 2024

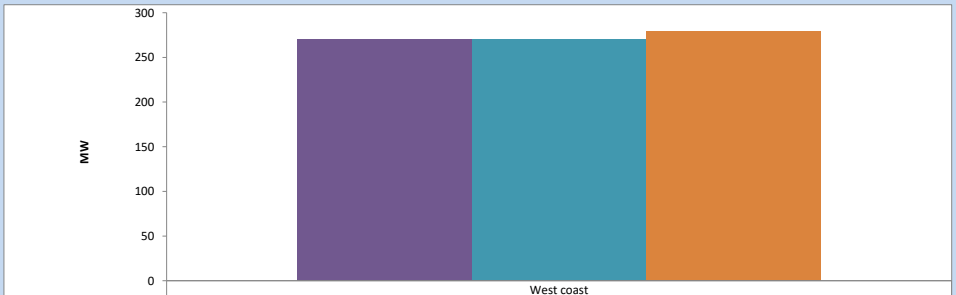
1.4 IPP owned Thermal Plant Dispatch October 8, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	5078

Available Generation is estimated based on plant availability at 6.00am on October 9, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

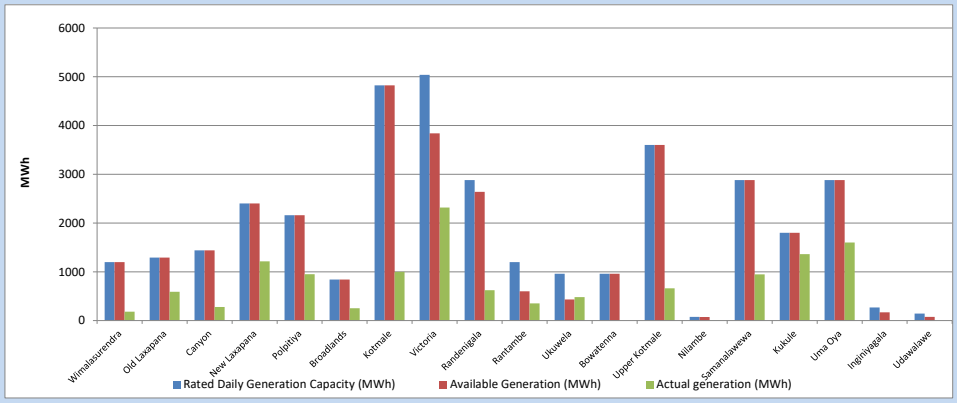


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	279

Plant availability is recorded at 6.00 am on October 9, 2024

1.6 Major Hydro Plant Dispatch

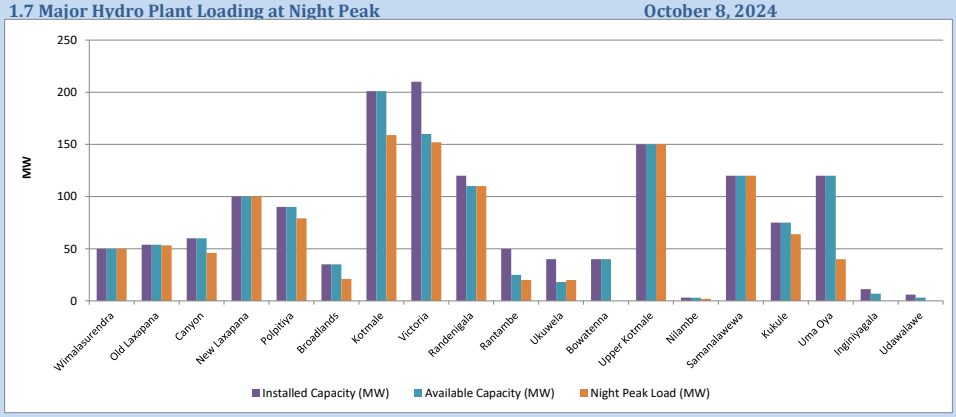
October 8, 2024



Available Generation is estimated based on plant availability at 6.00am on October 9, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 8, 2024



Plant availability is recorded at 6.00 am on October 9, 2024

1.8 Summary of Major Plant performance

October 8, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	183
Old Laxapana	54	54	53	591
Canyon	60	60	46	280
New Laxapana	100	100	100	1,215
Polpitiya	90	90	79	950
Broadlands	35	35	21	254
Kotmale	201	201	159	1,000
Victoria	210	160	152	2,317
Randenigala	120	110	110	621
Rantambe	50	25	20	351
Ukuwela	40	18	20	482
Bowatenna	40	40	0	0
Upper Kotmale	150	150	150	662
Nilambe	3	3	2	3
Samanalawewa	120	120	120	949
Kukule	75	75	64	1,362
Uma Oya	120	120	40	1,602
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,509
Puttalam Coal III	270	270	271	6,488
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	151	3,227
Sapugaskanda A	68	64	62	1,034
Sapugaskanda B	72	54	54	1,120
Uthura Janani	26	16	16	297
Barge CEB	60	60	60	1,152
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	279	5,078
Sobadhanavi	220	212	0	0
Total	3,606	2,740	2,464	41,677

Note-

Plant availability is the availability recorded at 6 am on October 9, 2024

1.9 Contribution to the Night Peak in MW

October 8, 2024

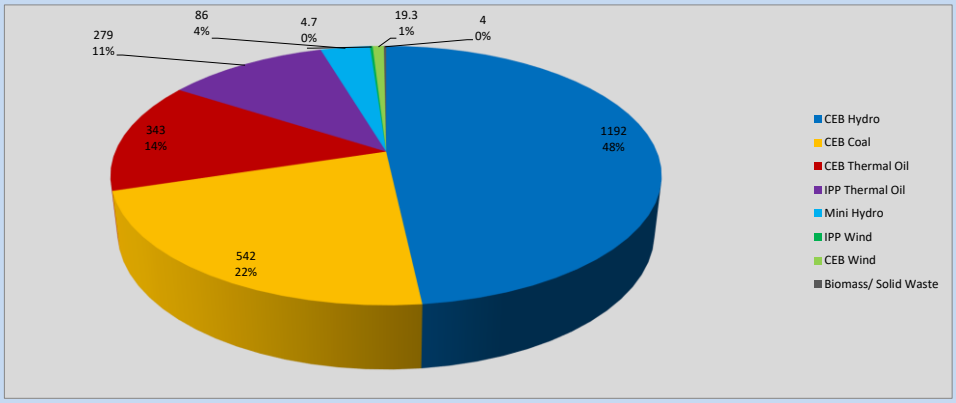


Table 05

CEB Hydro	1192	MW
CEB Coal	542	MW
CEB Thermal Oil	343	MW
IPP Thermal Oil	279	MW
Mini Hydro (Telemetered)	86	MW
IPP Wind	4.7	MW
CEB Wind	19.3	MW
Biomass/ Solid Waste	4	MW

Recorded Peak Demand Data

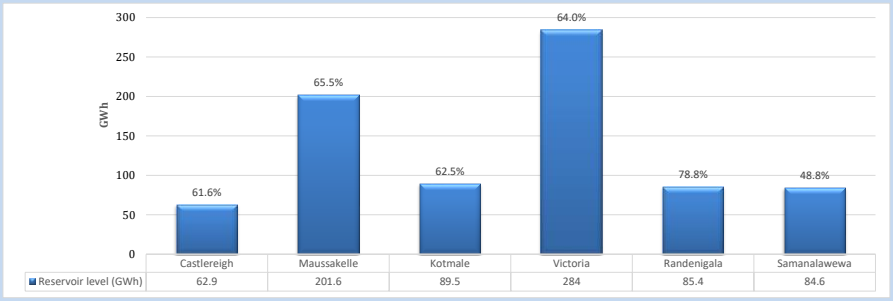
Table 06

Night Peak*	2,470	MW
Day Peak Maximum Demand	2,197	MW
Day Peak Minimum Demand	1,508	MW
Off Peak Minimum Demand	1,313	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 9, 2024



Total Reservoir Level 808 GWh
% of Total capacity 63.2%

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

October 8, 2024

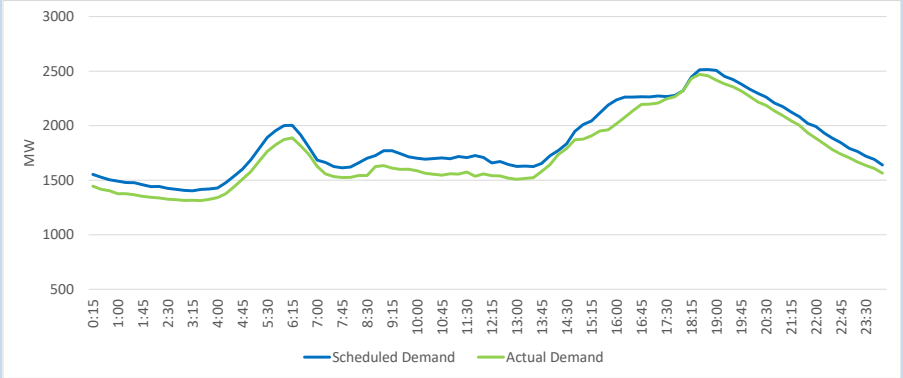
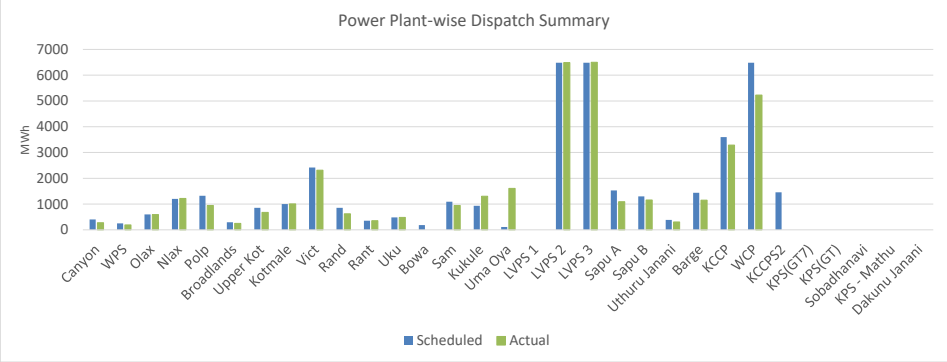


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,342	12,773	431
CEB Coal	12,960	12,994	34
CEB Thermal Oil	9,705	6,994	(2,712)
IPP Thermal Oil	6,480	5,230	(1,251)
NCRE (Telemetered)	2,803	3,867	1,064
Total	**44,290**	**41,856**	**(2,434)**

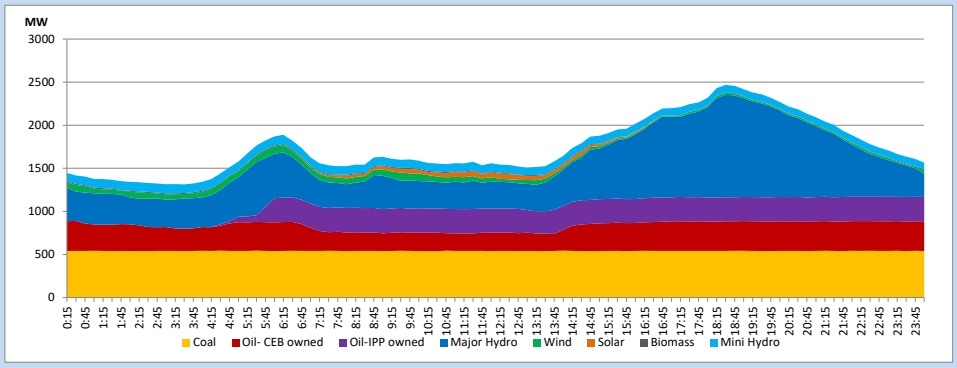
1.12 Power Plant-wise Dispatch Summary

October 8, 2024



1.13 Daily Load Curve

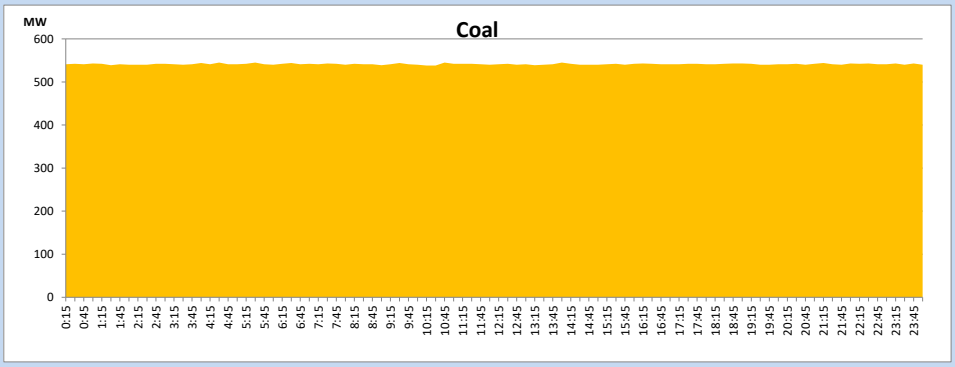
October 8, 2024



Solar and wind data is based on Telemetered Power Stations only

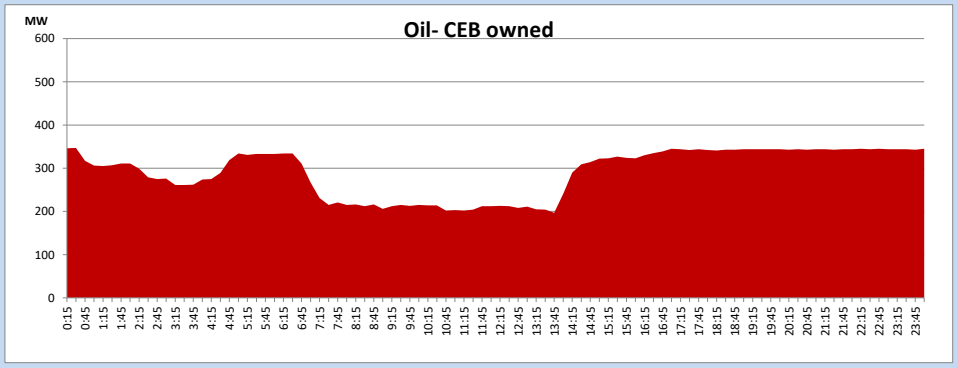
Coal Generation during

October 8, 2024

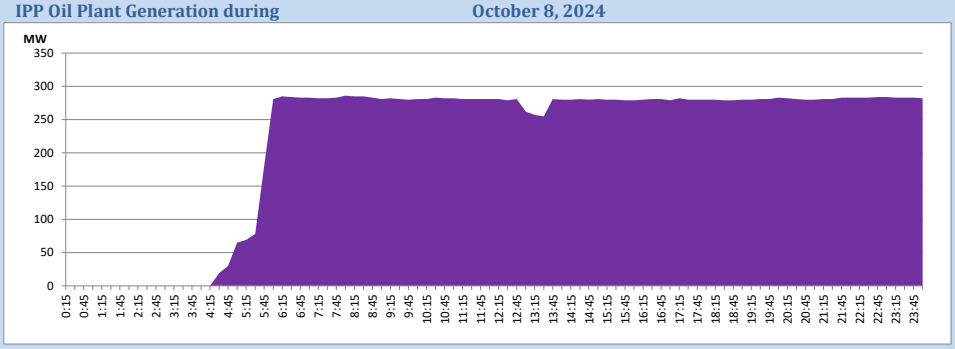


CEB Oil Plant Generation during

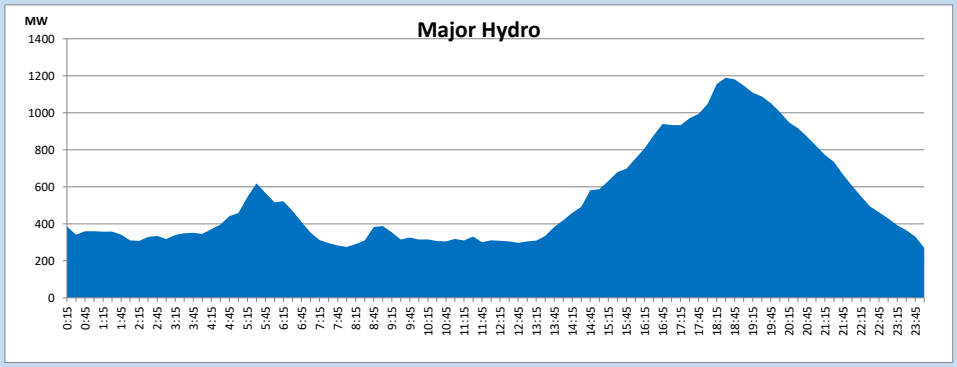
October 8, 2024



IPP Oil Plant Generation during October 8, 2024

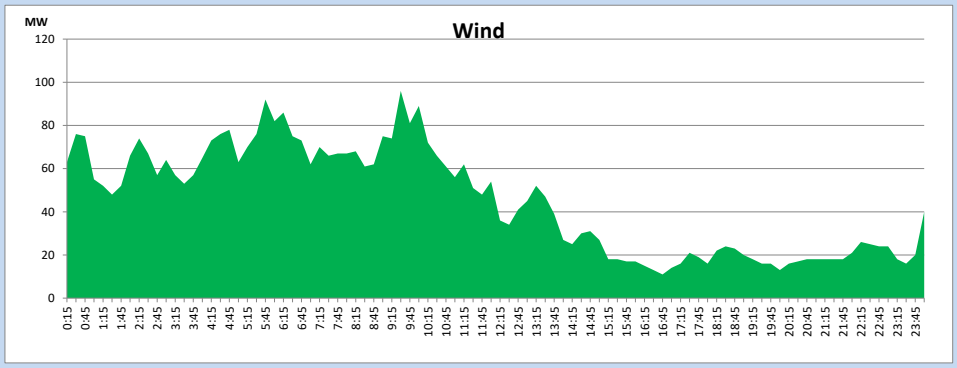


Major Hydro Generation during October 8, 2024



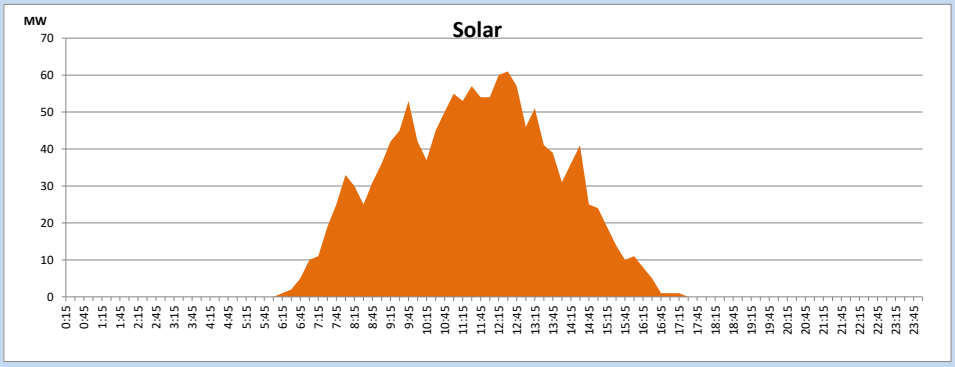
Wind Generation during October 8, 2024

Based on Telemetered Power Stations only



Solar Generation during October 8, 2024

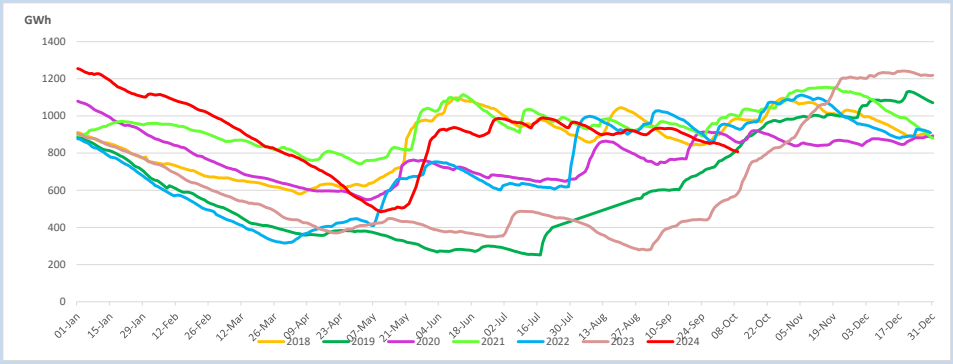
Based on Telemetered Power Stations only



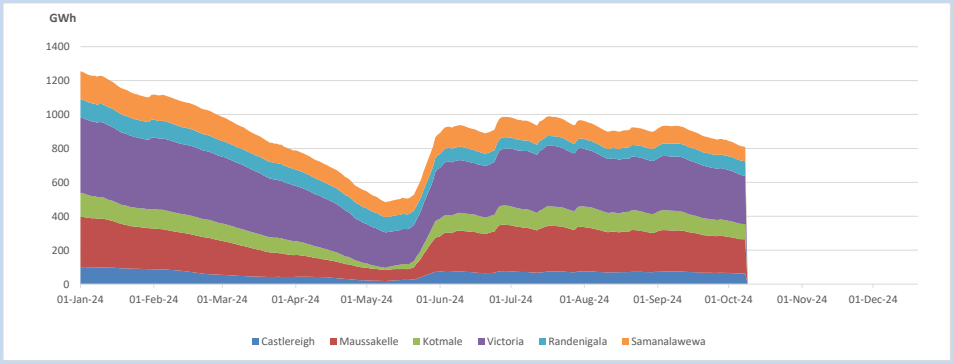
1.14 Major Incidents reported during the day October 8, 2024

1. Katunayake 132/33kV T/F 03, which was tripped on 07.10.2024, normalized at 10:15hrs.
2. At 14:58 hrs, Kerawalapitiya 220/33kV T/F 01 tripped only from 33kV side due to the operation of O/C and E/F protection and 220/33kV T/F 02 tripped from both ends due to the operation of Buchholz relay protection. At the same time, the 33kV bus section tripped, indicating O/C and E/F, causing Kerawalapitiya GSS all 33kV feeders to be dead. Kerawalapitiya 220/33kV T/F 01 and affected 33kV feeders were normalized by 16:42hrs. The T/F 02 is yet to be normalized.
3. Monaragala 132/33kV T/F 01 tripped from both ends at 1:47hrs (09.10.2024), indicating OLTC oil level low alarm. The T/F is yet to be normalized.

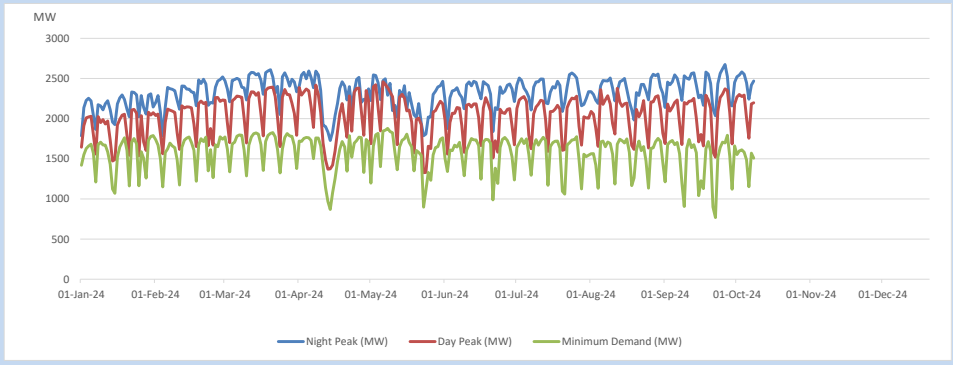
2. Comparison of Total Reservoir Storage Levels with Past Years



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

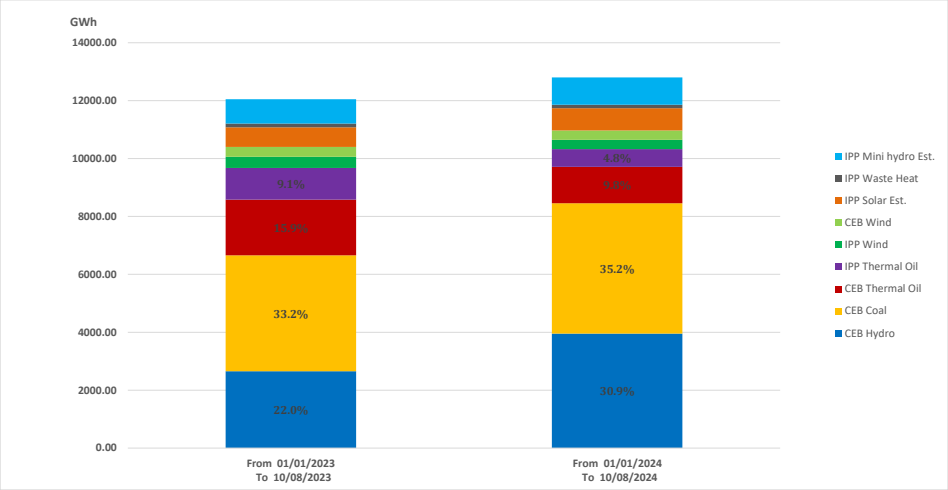


4. Variation of Demand during the current year



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 10/08/2023 **12048 GWh**

From 01/01/2024 To 10/08/2024 **12804 GWh**

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)

Unserved 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 Capcity

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