Generation and Reservoirs Statistics

October 10, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 10, 2024

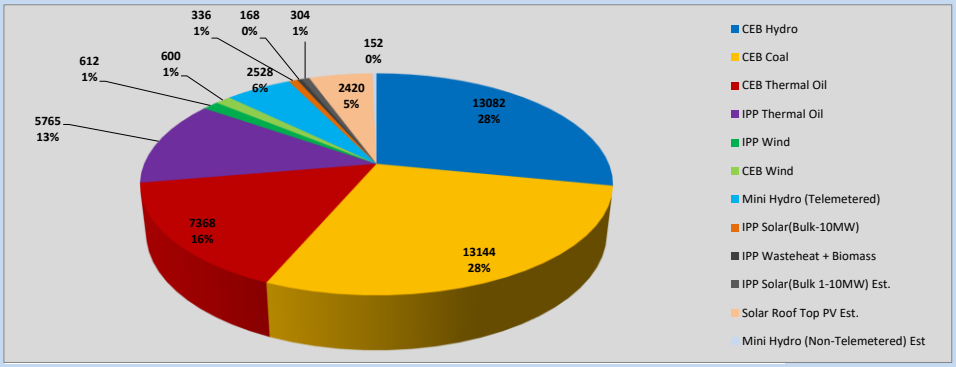


Table 01

	Generation (MWh)
CEB Hydro	13082
CEB Coal	13144
CEB Thermal Oil	7368
IPP Thermal Oil	5765
IPP Wind	612
CEB Wind	600
Mini Hydro (Telemetered)	2528
IPP Solar (Bulk)	336
IPP Waste heat + Biomass	168
Total Generation (Excluding estimated figures)	43,603
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	152
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	**46,479**

*** Estimated figures of CEB generation report**

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

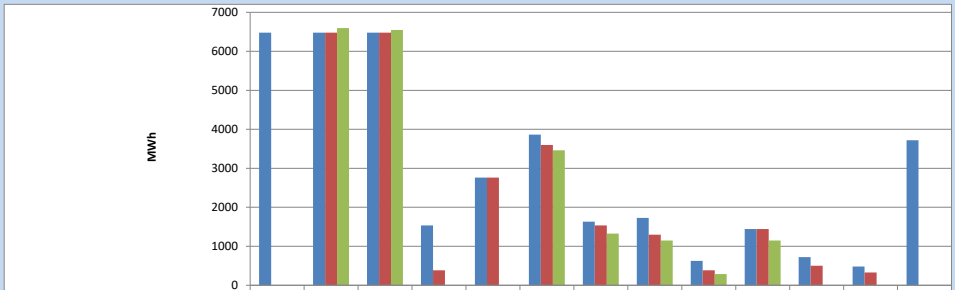
Category	Dispatch (GWh)	
CEB Hydro	124	27.06%
CEB Coal	130	28.29%
CEB Thermal Oil	74	16.12%
IPP Thermal	59	12.80%
IPP Wind	8	1.72%
CEB Wind	11	2.30%
Mini Hydro *	20	4.42%
IPP Solar *	31	6.72%
IPP Waste heat + BMP	3	0.58%
Total	**459**	

Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,977	30.84%
CEB Coal	4,530	35.13%
CEB Thermal Oil	1,275	9.89%
IPP Thermal	621	4.82%
IPP Wind	319	2.48%
CEB Wind	329	2.55%
Mini Hydro *	950	7.37%
IPP Solar *	777	6.02%
IPP Waste heat	117	0.91%
Total	**12,896**	

*Including estimated contribution from non telemetered plants

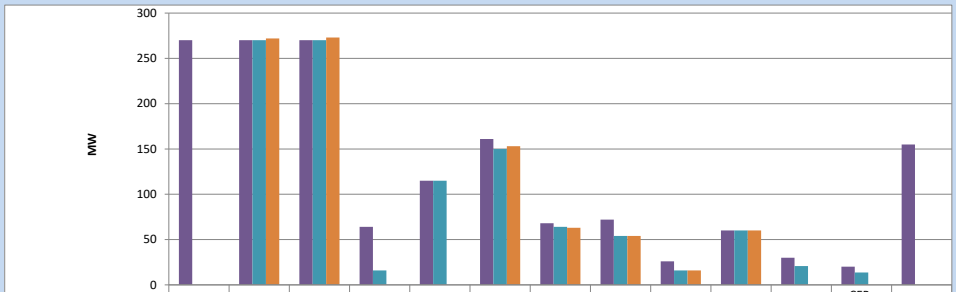
1.2 CEB owned Thermal Plant Dispatch October 10, 2024



	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	6595	6549	0	0	3460	1325	1148	287	1148	0	0	0

Available Generation is estimated based on plant availability at 6.00am on October 11, 2024

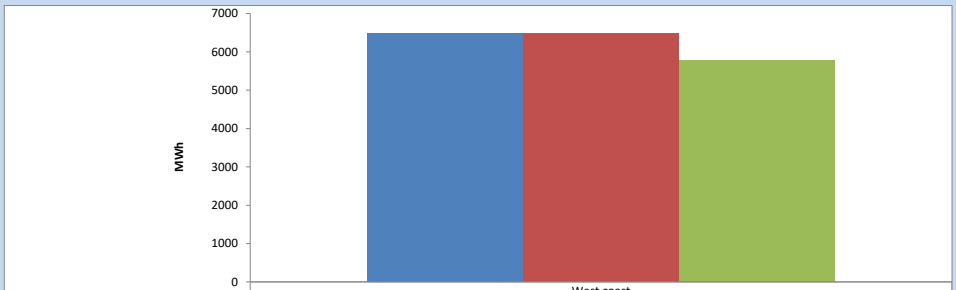
1.3 CEB owned Thermal Plant Loading at the Night Peak October 10, 2024



	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	272	273	0	0	153	63	54	16	60	0	0	0

Plant availability is recorded at 6.00 am on October 11, 2024

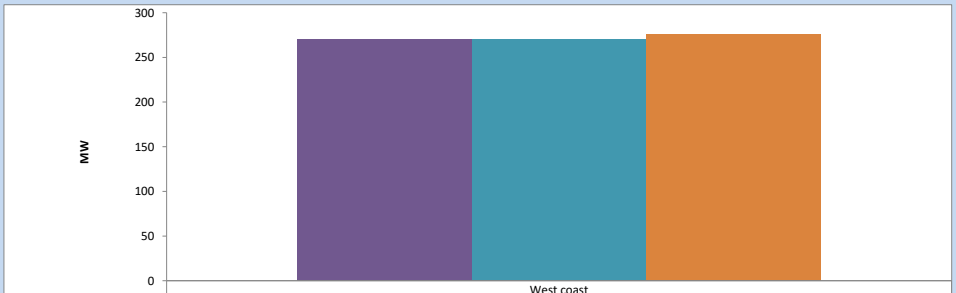
1.4 IPP owned Thermal Plant Dispatch October 10, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	5765

Available Generation is estimated based on plant availability at 6.00am on October 11, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

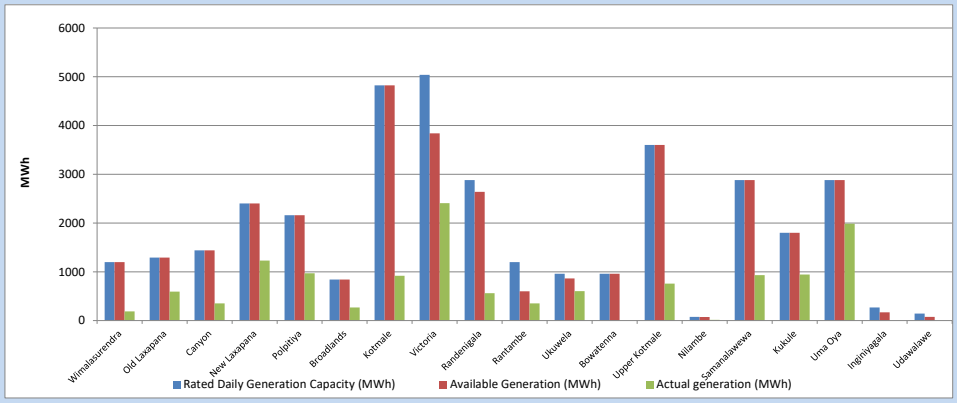


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	276

Plant availability is recorded at 6.00 am on October 11, 2024

1.6 Major Hydro Plant Dispatch

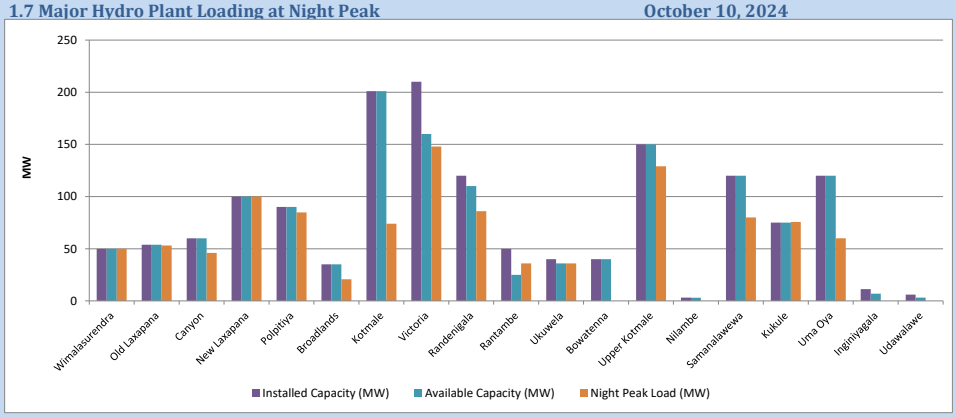
October 10, 2024



Available Generation is estimated based on plant availability at 6.00am on October 11, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 10, 2024



Plant availability is recorded at 6.00 am on October 11, 2024

1.8 Summary of Major Plant performance

October 10, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	187
Old Laxapana	54	54	53	595
Canyon	60	60	46	352
New Laxapana	100	100	100	1,229
Polpitiya	90	90	85	970
Broadlands	35	35	21	270
Kotmale	201	201	74	920
Victoria	210	160	148	2,408
Randenigala	120	110	86	561
Rantambe	50	25	36	352
Ukuwela	40	36	36	602
Bowatenna	40	40	0	0
Upper Kotmale	150	150	129	758
Nilambe	3	3	0	14
Samanalawewa	120	120	80	932
Kukule	75	75	76	945
Uma Oya	120	120	60	1,987
Inginiyagala	11	7	0	0
Udawalawe	6	3	0	0
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	272	6,595
Puttalam Coal III	270	270	273	6,549
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	153	3,460
Sapugaskanda A	68	64	63	1,325
Sapugaskanda B	72	54	54	1,148
Uthura Janani	26	16	16	287
Barge CEB	60	60	60	1,148
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	276	5,765
Sobadhanavi	220	212	0	0
Total	3,606	2,758	2,392	43,603

Note-

Plant availability is the availability recorded at 6 am on October 11, 2024

1.9 Contribution to the Night Peak in MW

October 10, 2024

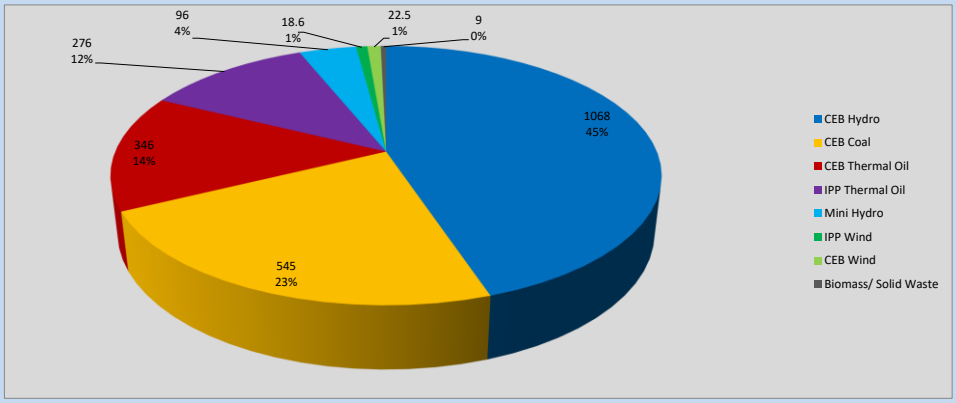


Table 05

CEB Hydro	1068	MW
CEB Coal	545	MW
CEB Thermal Oil	346	MW
IPP Thermal Oil	276	MW
Mini Hydro (Telemetered)	96	MW
IPP Wind	18.6	MW
CEB Wind	22.5	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

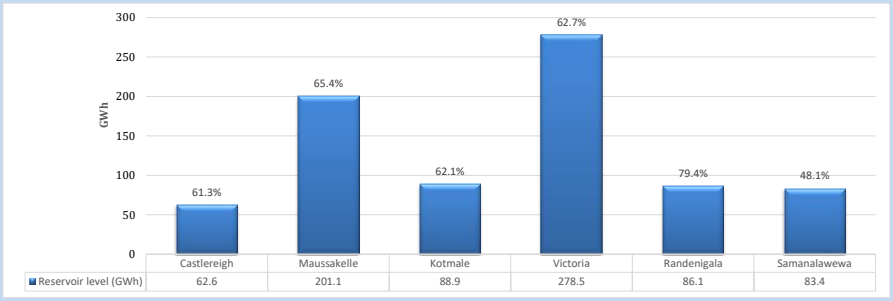
Table 06

Night Peak*	2,381	MW
Day Peak Maximum Demand	2,133	MW
Day Peak Minimum Demand	1,648	MW
Off Peak Minimum Demand	1,404	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 11, 2024



Total Reservoir Level 800.6 GWh
% of Total capacity 62.6%

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

October 10, 2024

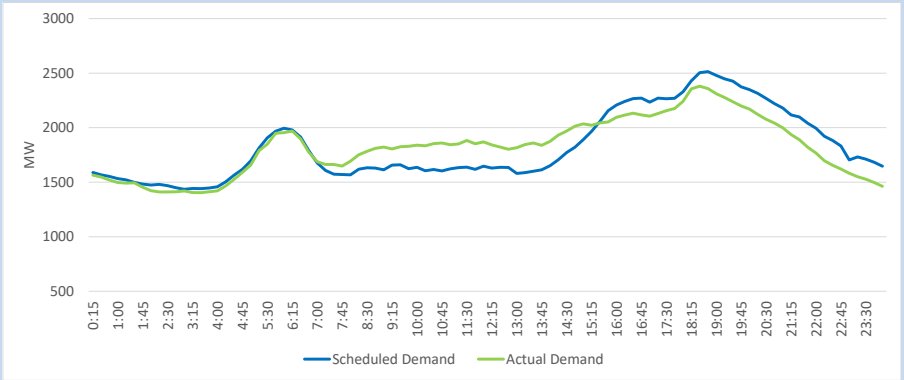
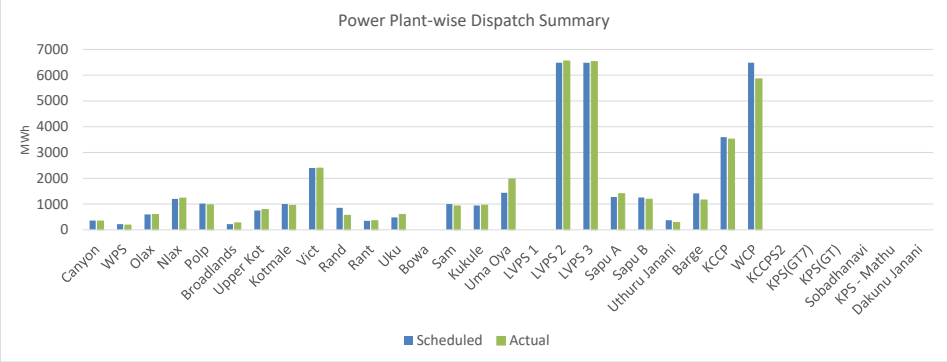


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,831	13,066	235
CEB Coal	12,960	13,076	116
CEB Thermal Oil	7,910	7,551	(359)
IPP Thermal Oil	6,480	5,859	(621)
NCRE (Telemetered)	3,608	4,190	582
Total	**43,789**	**43,741**	**(48)**

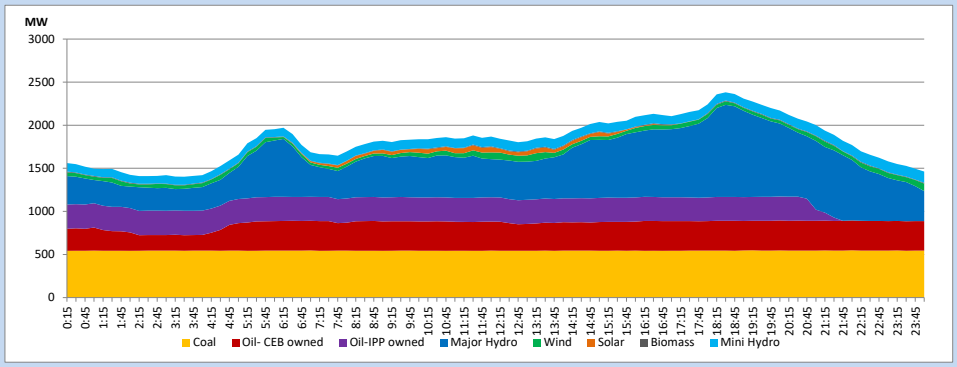
1.12 Power Plant-wise Dispatch Summary

October 10, 2024



1.13 Daily Load Curve

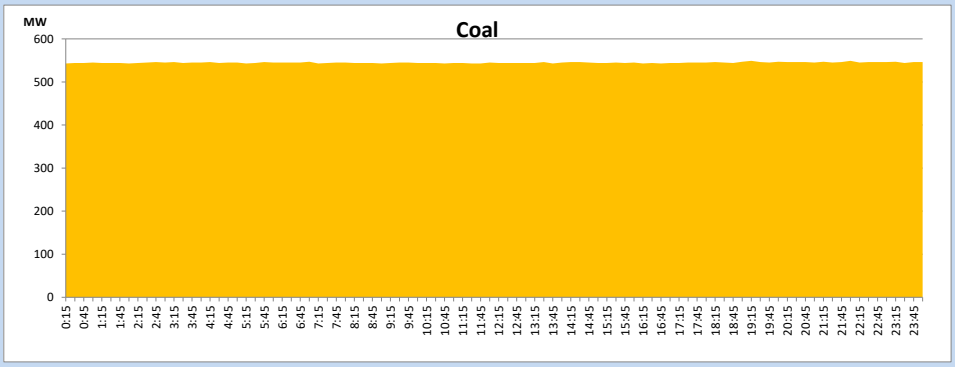
October 10, 2024



Solar and wind data is based on Telemetered Power Stations only

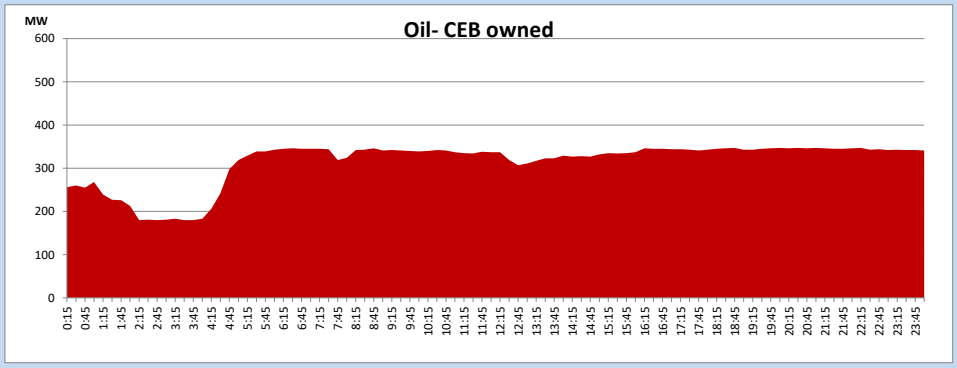
Coal Generation during

October 10, 2024

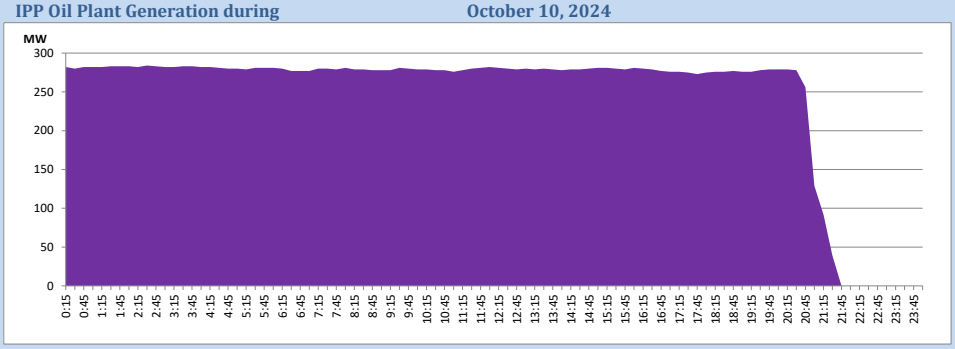


CEB Oil Plant Generation during

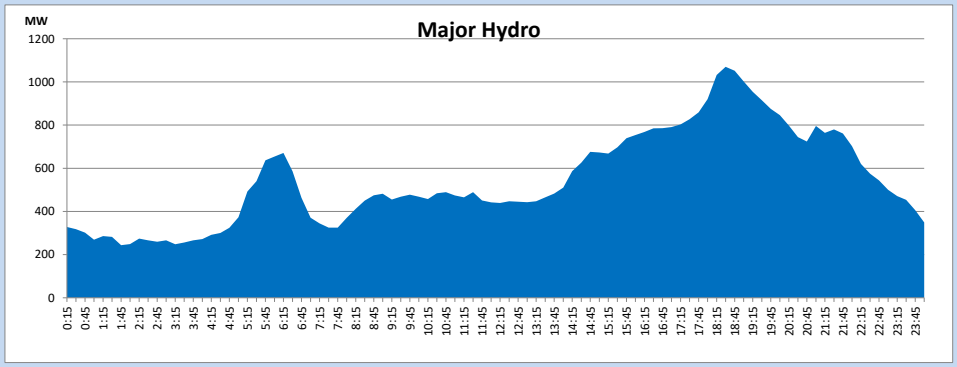
October 10, 2024



IPP Oil Plant Generation during October 10, 2024

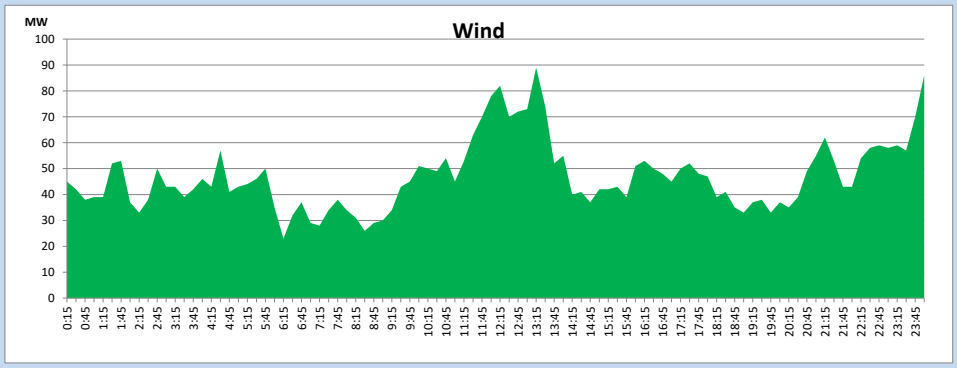


Major Hydro Generation during October 10, 2024



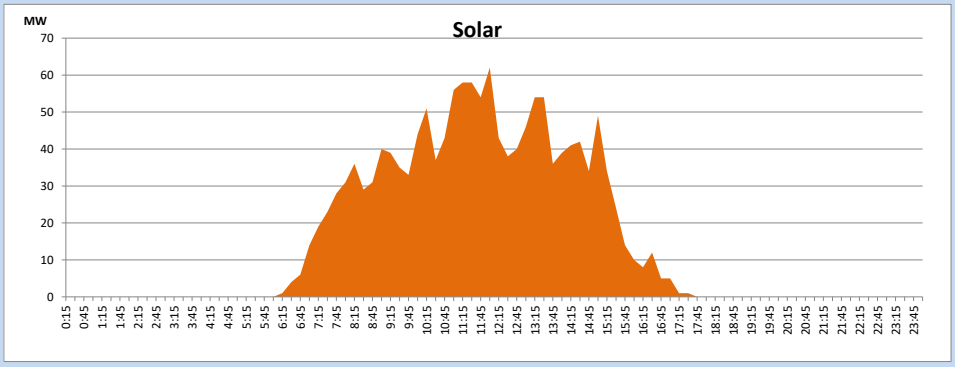
Wind Generation during October 10, 2024

Based on Telemetered Power Stations only



Solar Generation during October 10, 2024

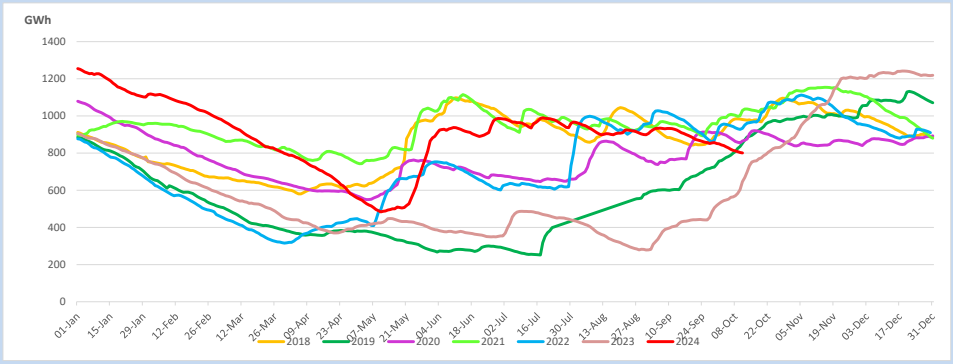
Based on Telemetered Power Stations only



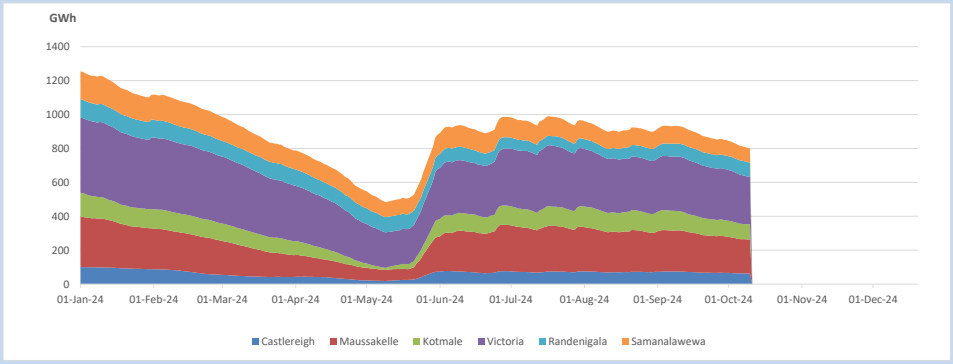
1.14 Major Incidents reported during the day October 10, 2024

1) Ukuwela unit 02 tripped at 16:27hrs rejecting 18MW from the system. Ukuwela unit 02 resumed generation at 17:10hrs.
2) Valachchenai GSS 132/33kV T/F 01, which was tripped on 06.10.2024, energized at 16:27hrs.
3) WPS unit 01 tripped at 18:43hrs rejecting 25MW from the system and resumed generation at 19:11hrs. WPS unit 01 tripped again at 19:28hrs, rejecting 15MW from the system and resumed generation at 21:37hrs.
4) Uma Oya Dyraaba pond spilling started at 00:35hrs (11.10.2024). Uma Oya Dyraaba pond spilling stopped at 04:00hrs (11.10.2024).
5) Kukule pond spilling started at 2:40hrs (11.10.2024) and spilling continues to present hour.
6) N'Anuradhapura - Trinco 132kV cct tripped and A/R from N' Anuradhapura end only at 4:38hrs (11.10.2024) due to the operation of Differential protection.

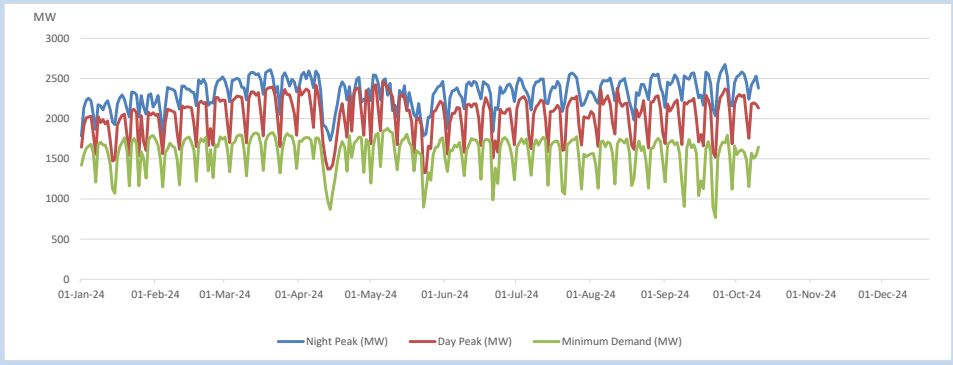
2. Comparison of Total Reservoir Storage Levels with Past Years



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

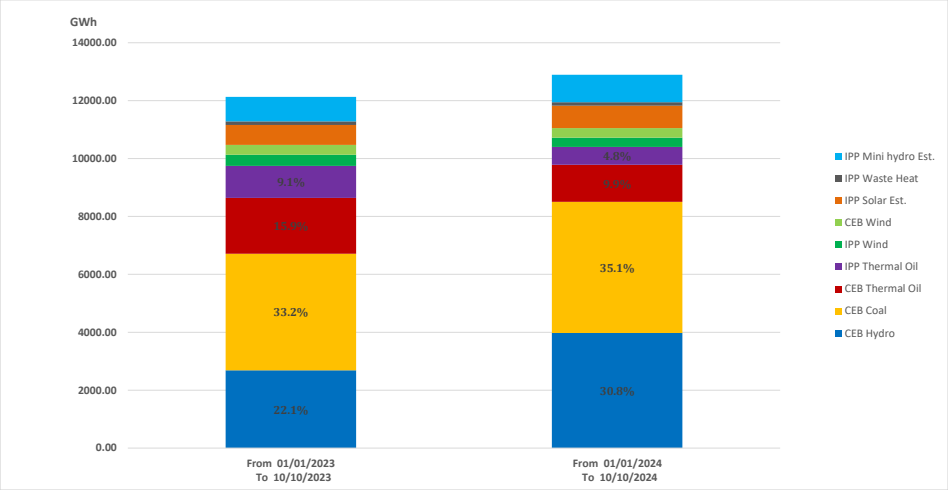


4. Variation of Demand during the current year



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 10/10/2023 **12132 GWh**

From 01/01/2024 To 10/10/2024 **12896 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