

Generation and Reservoirs Statistics

October 21, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 21, 2024

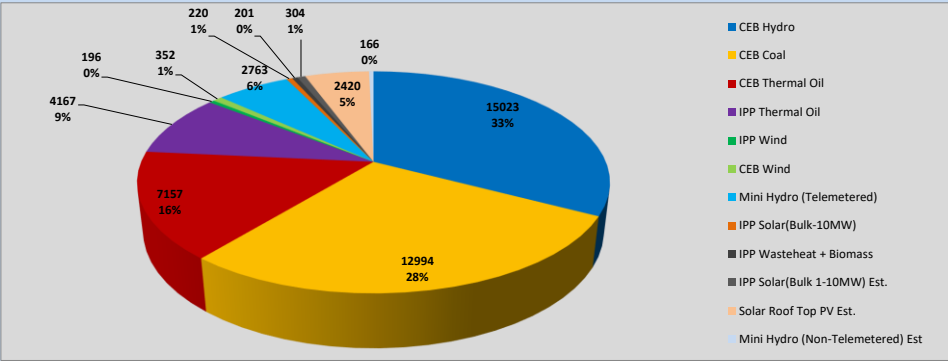


Table 01

	Generation (MWh)
CEB Hydro	15023
CEB Coal	12994
CEB Thermal Oil	7157
IPP Thermal Oil	4167
IPP Wind	196
CEB Wind	352
Mini Hydro (Telemetered)	2763
IPP Solar (Bulk)	220
IPP Waste heat + Biomass	201
Total Generation (Excluding estimated figures)	43,073
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	166
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	45,963
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	270	29.17%
CEB Coal	271	29.29%
CEB Thermal Oil	133	14.41%
IPP Thermal	84	9.08%
IPP Wind	17	1.80%
CEB Wind	21	2.24%
Mini Hydro *	61	6.61%
IPP Solar *	64	6.93%
IPP Waste heat + BMP	4	0.47%
Total	926	

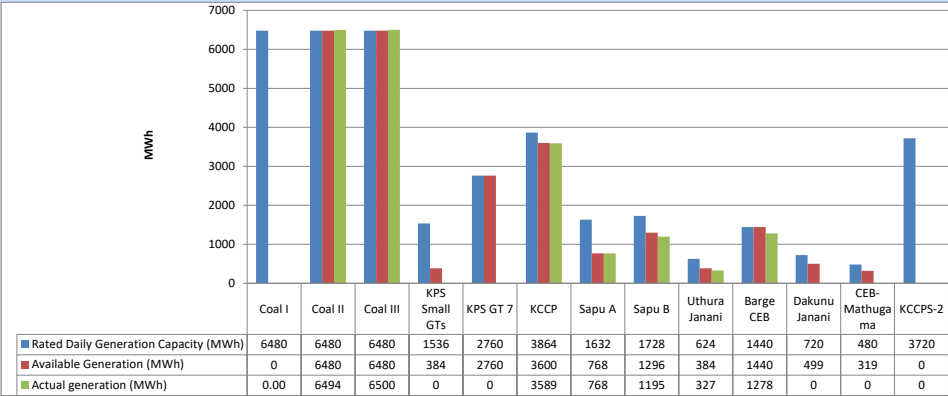
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,124	29.51%
CEB Coal	4,672	33.43%
CEB Thermal Oil	1,335	9.55%
IPP Thermal	1,258	9.00%
IPP Wind	328	2.35%
CEB Wind	339	2.43%
Mini Hydro *	991	7.09%
IPP Solar *	810	5.80%
IPP Waste heat	119	0.85%
Total	13,974	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 21, 2024

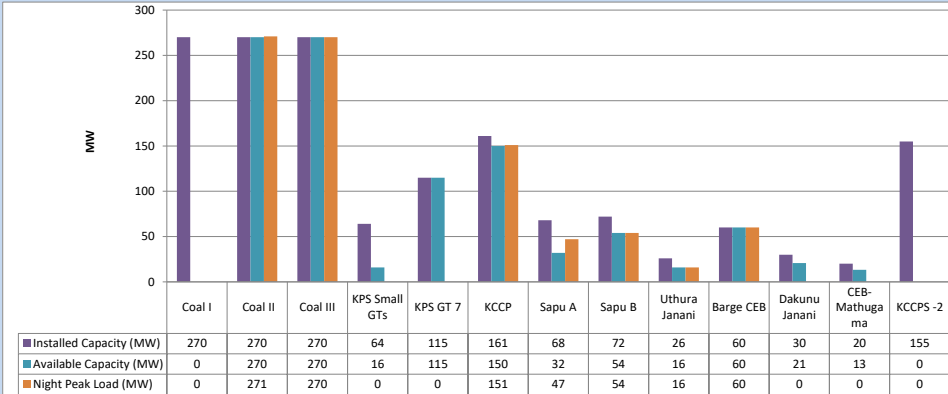


Available Generation is estimated based on plant availability at 6.00am on

October 22, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 21, 2024

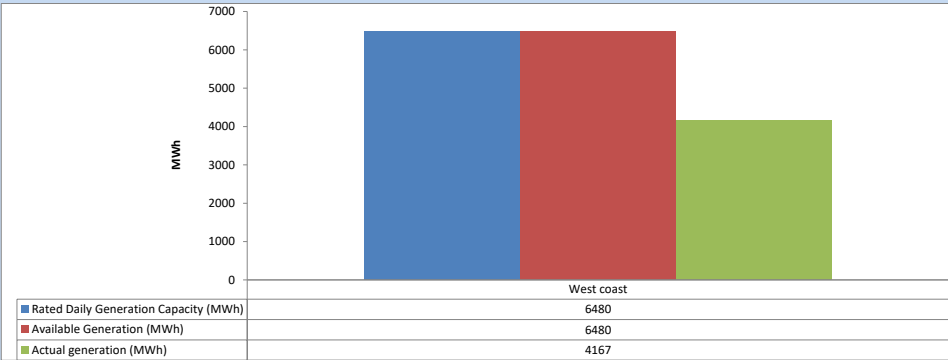


Plant availability is recorded at 6.00 am on

October 22, 2024

1.4 IPP owned Thermal Plant Dispatch

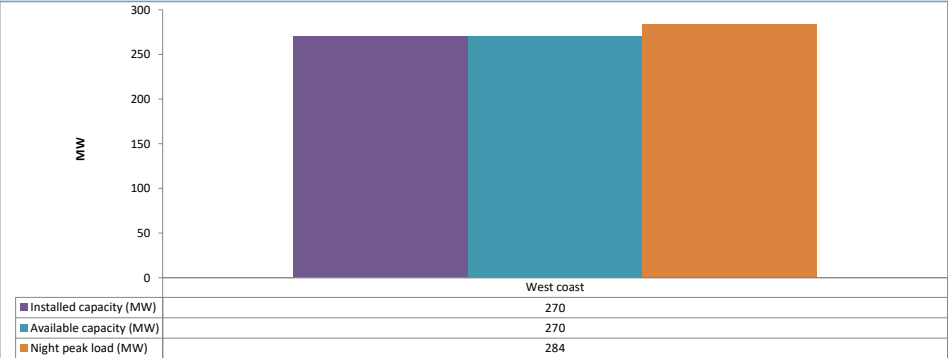
October 21, 2024



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

October 22, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

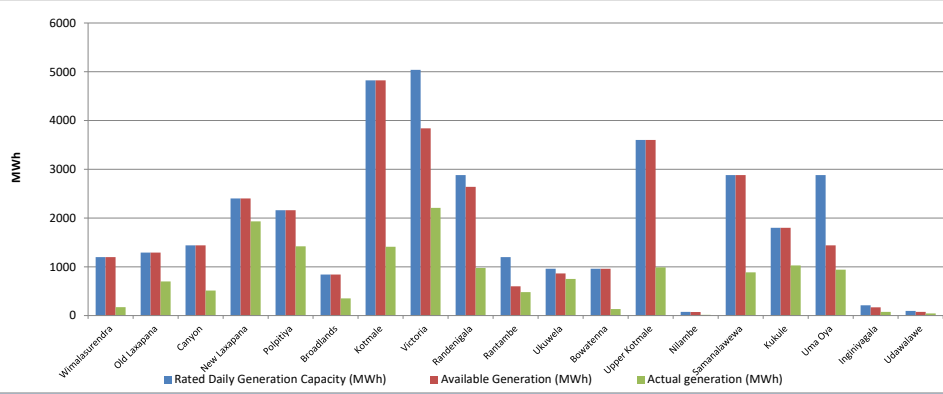


Plant availability is recorded at 6.00 am on

October 22, 2024

1.6 Major Hydro Plant Dispatch

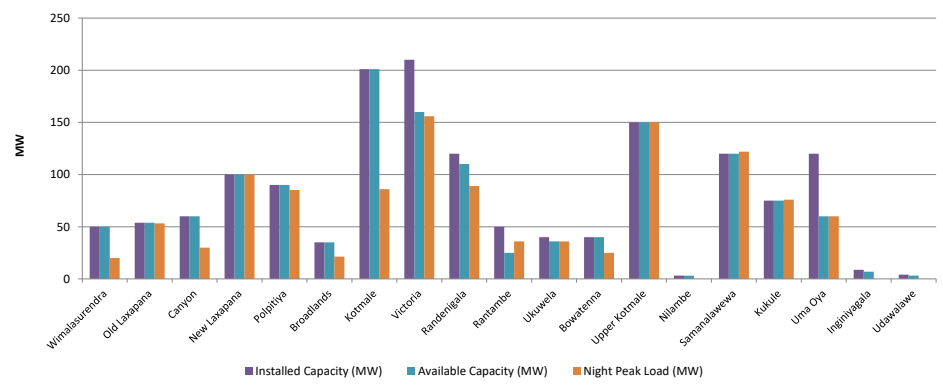
October 21, 2024



Available Generation is estimated based on plant availability at 6.00am on October 22, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 21, 2024



Plant availability is recorded at 6.00 am on October 22, 2024

1.8 Summary of Major Plant performance

October 21, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	172
Old Laxapana	54	54	53	700
Canyon	60	60	30	513
New Laxapana	100	100	100	1,933
Polpitiya	90	90	85	1,420
Broadlands	35	35	21	352
Kotmale	201	201	86	1,410
Victoria	210	160	156	2,207
Randeniya	120	110	89	978
Rantambe	50	25	36	481
Ukuwela	40	36	36	751
Bowatenna	40	40	25	134
Upper Kotmale	150	150	150	988
Nilambe	3	3	0	15
Samanawewa	120	120	122	885
Kukule	75	75	76	1,027
Uma Oya	120	60	60	940
Inginiyagala	9	7	0	75
Udawalawe	4	3	0	42
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,494
Puttalam Coal III	270	270	270	6,500
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	151	3,589
Sapugaskanda A	68	32	47	768
Sapugaskanda B	72	54	54	1,195
Uthura Janani	26	16	16	327
Barge CEB	60	60	60	1,278
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	284	4,167
Sobadhanavi	220	0	0	0
Total	3,602	2,878	2,455	43,073

Note- Plant availability is the availability recorded at 6 am on October 22, 2024

1.9 Contribution to the Night Peak in MW

October 21, 2024

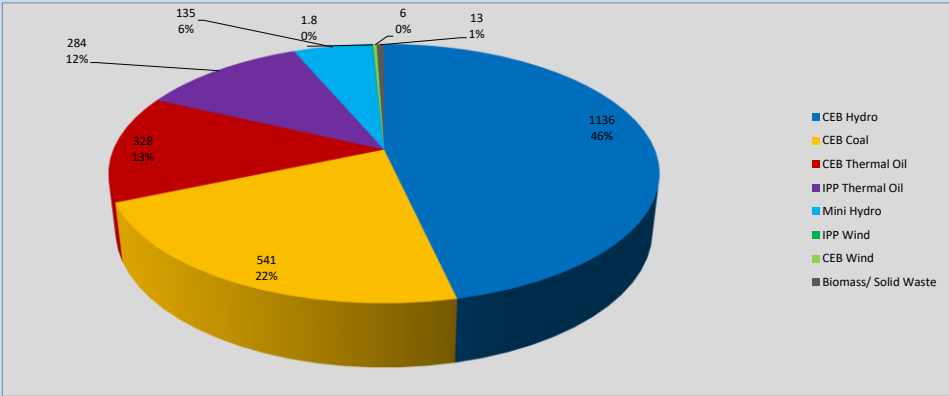


Table 05

CEB Hydro	1136	MW
CEB Coal	541	MW
CEB Thermal Oil	328	MW
IPP Thermal Oil	284	MW
Mini Hydro (Telemetered)	135	MW
IPP Wind	1.8	MW
CEB Wind	6	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

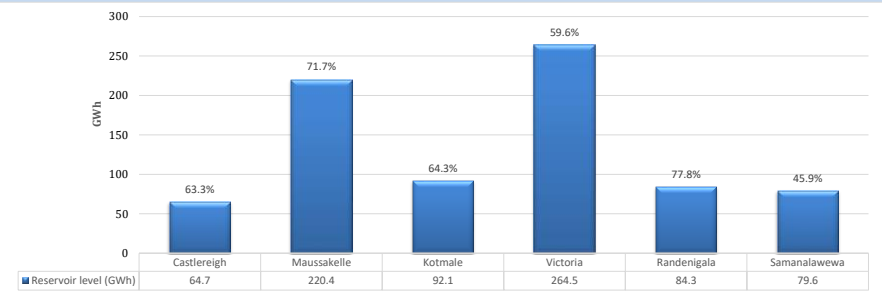
Table 06

Night Peak*	2,445	MW
Day Peak Maximum Demand	2,174	MW
Day Peak Minimum Demand	1,594	MW
Off Peak Minimum Demand	1,279	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 22, 2024



Total Reservoir Level 805.6 GWh
% of Total capacity 63.0%

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

October 21, 2024

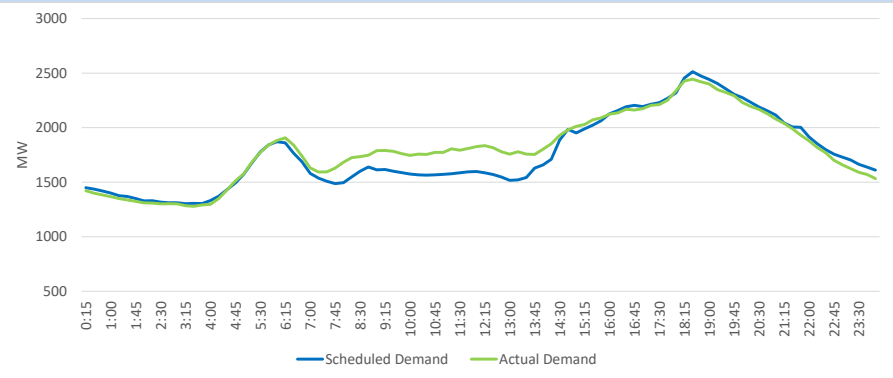
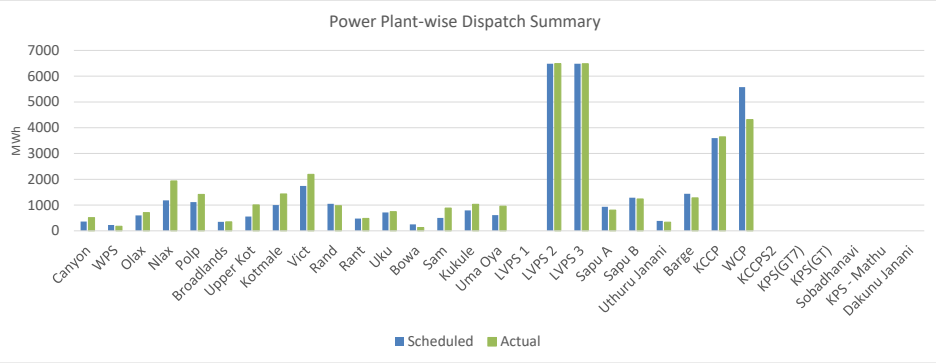


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,516	14,928	3,412
CEB Coal	12,960	12,971	11
CEB Thermal Oil	7,644	7,305	(339)
IPP Thermal Oil	5,574	4,319	(1,256)
NCRE (Telemetered)	4,495	3,711	(784)
Total	42,189	43,233	1,044

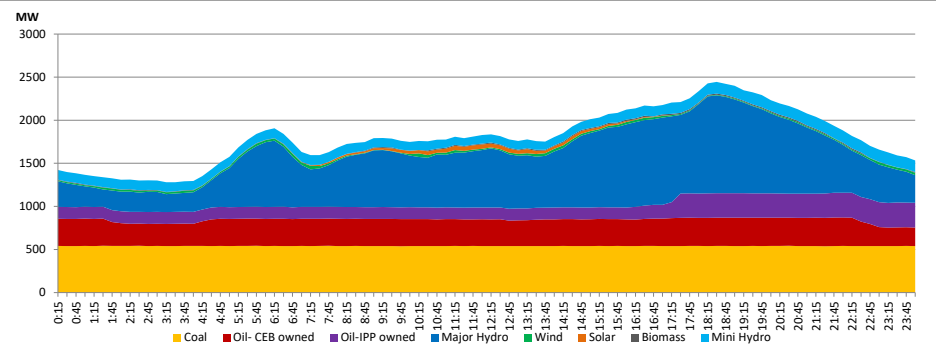
1.12 Power Plant-wise Dispatch Summary

October 21, 2024



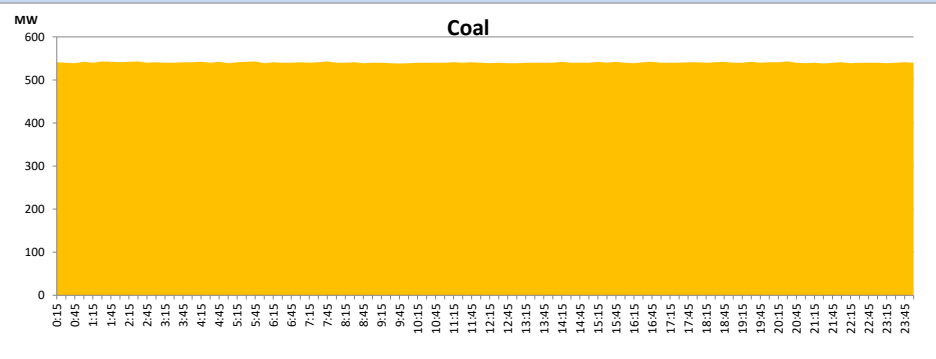
1.13 Daily Load Curve

October 21, 2024



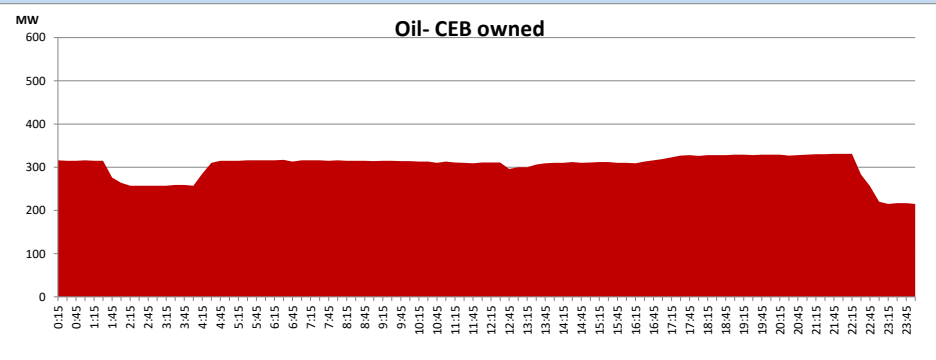
Coal Generation during

October 21, 2024

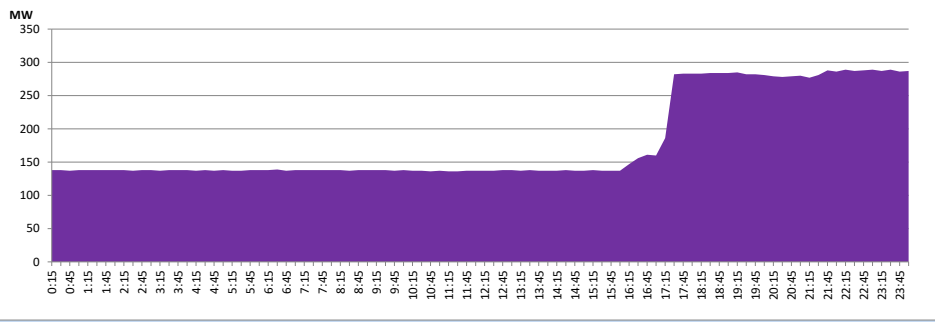


CEB Oil Plant Generation during

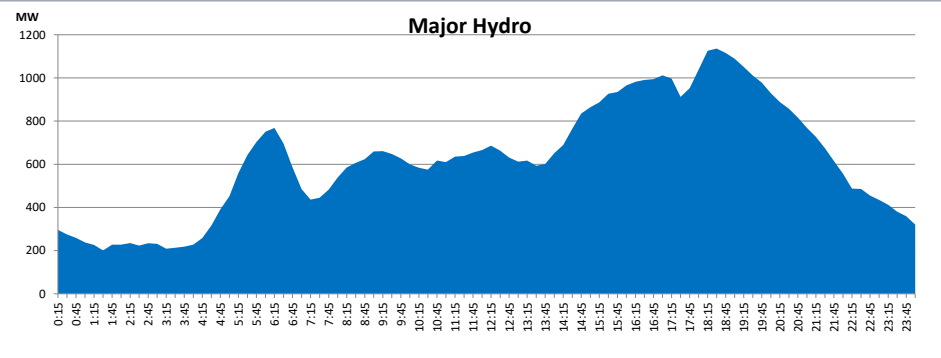
October 21, 2024



IPP Oil Plant Generation during October 21, 2024

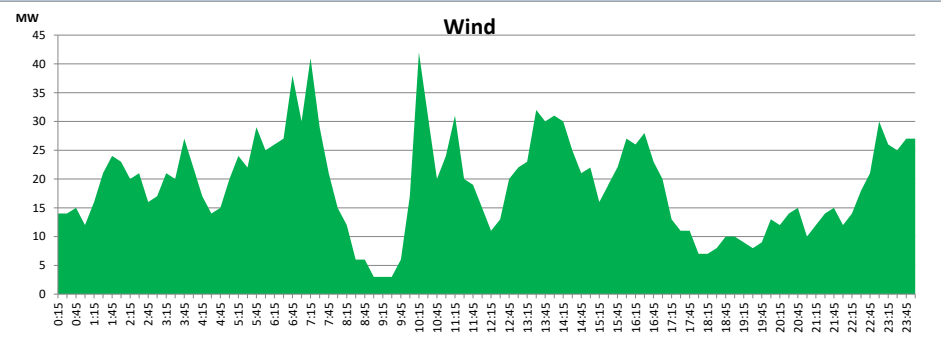


Major Hydro Generation during October 21, 2024



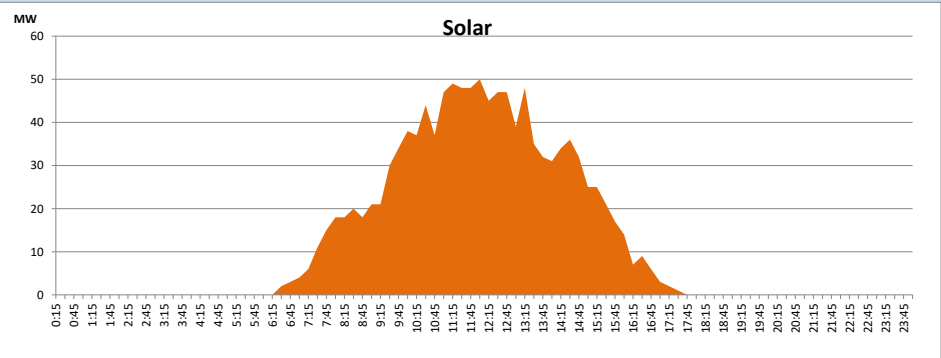
Wind Generation during October 21, 2024

Based on Telemetered Power Stations only



Solar Generation during October 21, 2024

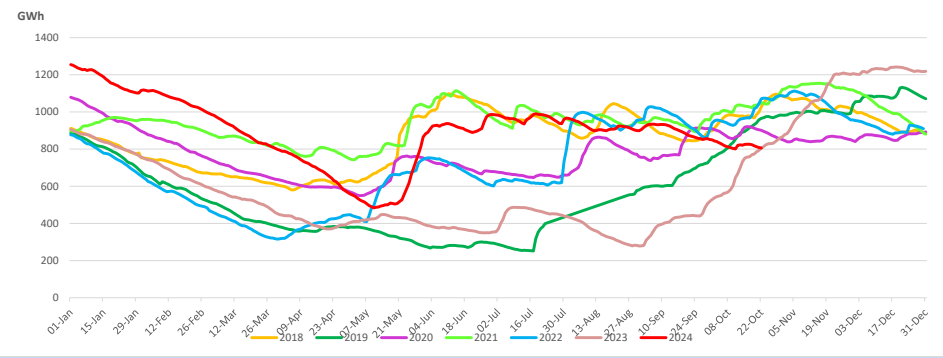
Based on Telemetered Power Stations only



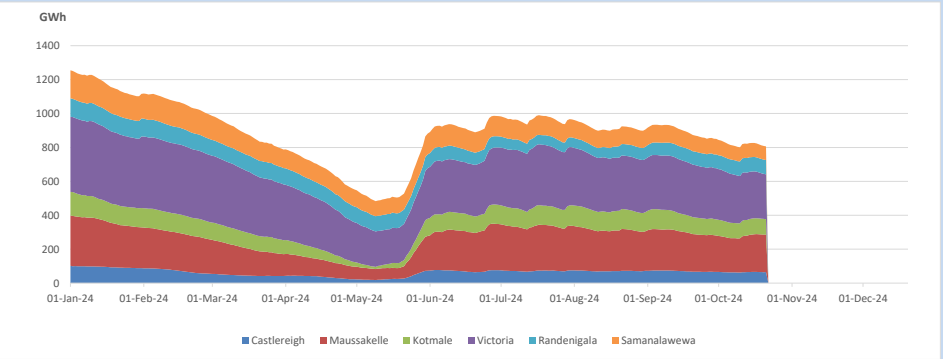
1.14 Major Incidents reported during the day October 21, 2024

- 1) Kerawalapitiya - Sub L 220kV cable tripped from both ends at 04:22hrs (22.10.24) due to the operation of Dirrectional Earth Fault protection. At the same time, Kotugoda - Katunayake 132kV cct 01 tripped only from Kotugoda end and tripped & A/R from Katunayake end due to the operation of Distance protection. Kotugoda - Katunayake cct was normalized at 04:36hrs (22.10.24). The Kerawalapitiya - Sub L cable is yet to be restored.
- 2) New Chillaw - LVPS 220kV cct 02 tripped and A/R from both ends at 05:31hrs (22.10.2024) due to the operation of differential protection.
- 3) New Anuradhapura - LVPS 220kV cct 02 tripped and A/R from both ends at 05:33hrs (22.10.2024) due to the operation of differential protection.

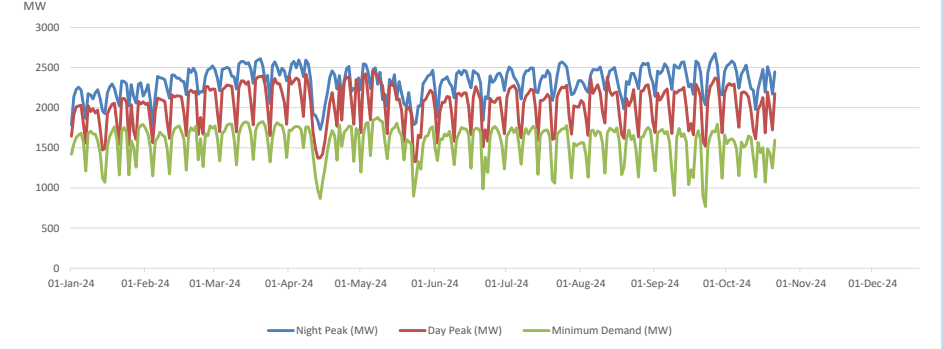
2. Comparison of Total Reservoir Storage Levels with Past Years



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

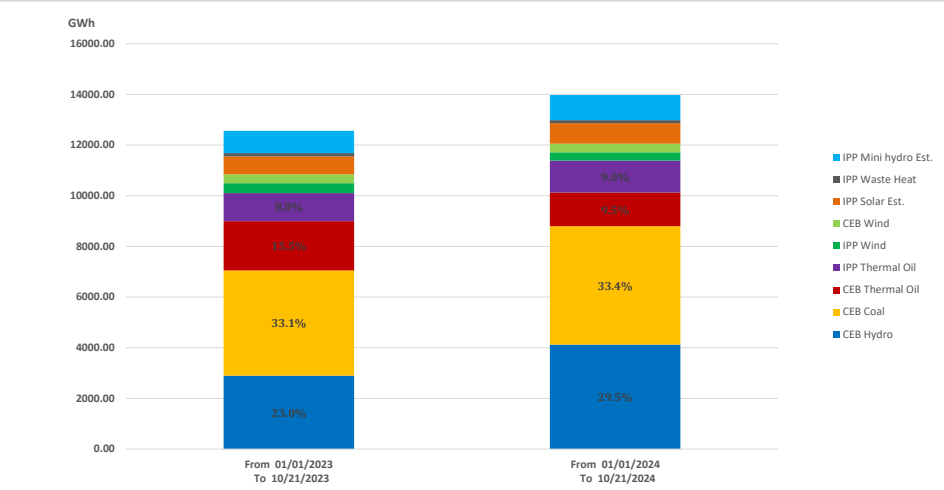


4. Variation of Demand during the current year



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 10/21/2023 12562 GWh
From 01/01/2024 To 10/21/2024 13974 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