

Generation and Reservoirs Statistics

October 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 20, 2024

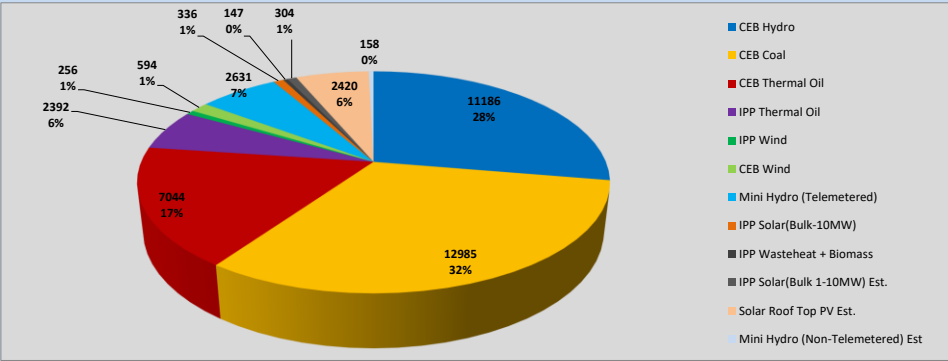


Table 01

	Generation (MWh)
CEB Hydro	11186
CEB Coal	12985
CEB Thermal Oil	7044
IPP Thermal Oil	2392
IPP Wind	256
CEB Wind	594
Mini Hydro (Telemetered)	2631
IPP Solar (Bulk)	336
IPP Waste heat + Biomass	147
Total Generation (Excluding estimated figures)	37,571
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	158
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2420
Total Generation (Including estimated figures)	40,453
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	255	28.99%
CEB Coal	258	29.34%
CEB Thermal Oil	126	14.35%
IPP Thermal	80	9.08%
IPP Wind	16	1.87%
CEB Wind	20	2.32%
Mini Hydro *	58	6.62%
IPP Solar *	61	6.96%
IPP Waste heat + BMP	4	0.47%
Total	880	

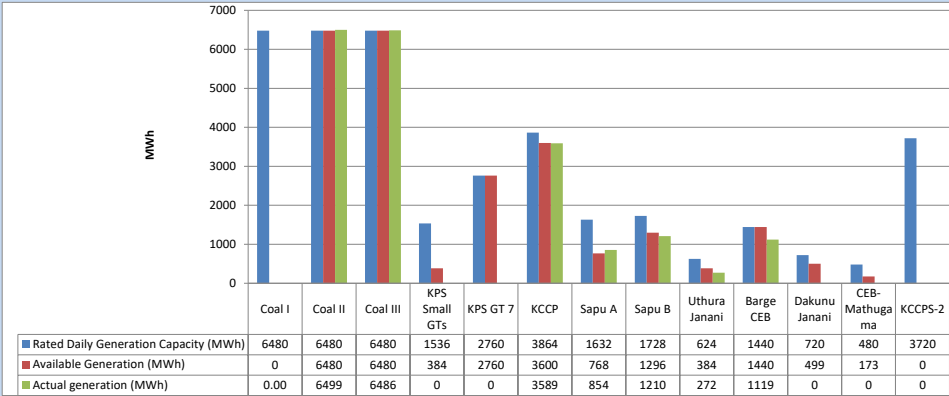
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,108	29.50%
CEB Coal	4,659	33.45%
CEB Thermal Oil	1,327	9.53%
IPP Thermal	1,254	9.00%
IPP Wind	328	2.35%
CEB Wind	339	2.43%
Mini Hydro *	988	7.09%
IPP Solar *	807	5.80%
IPP Waste heat	118	0.85%
Total	13,928	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 20, 2024

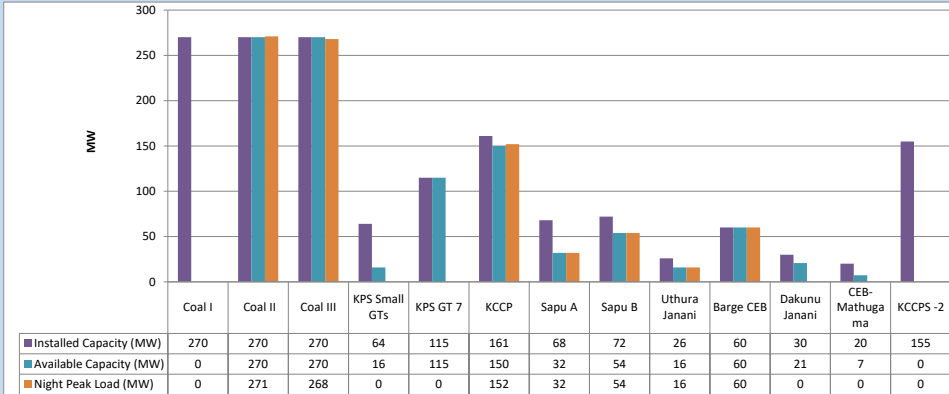


Available Generation is estimated based on plant availability at 6.00am on

October 21, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 20, 2024

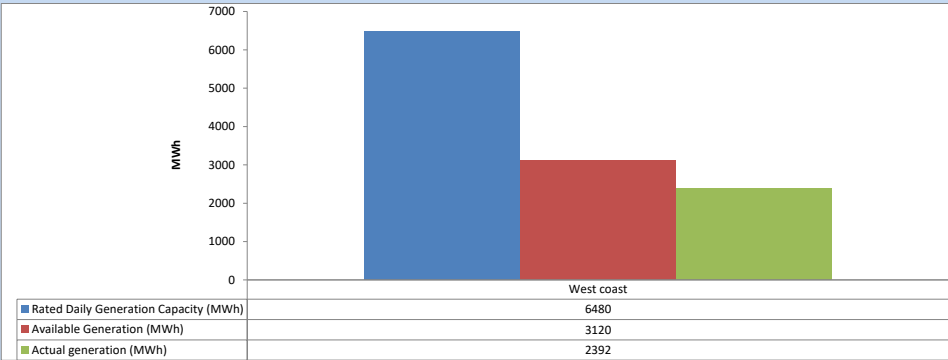


Plant availability is recorded at 6.00 am on

October 21, 2024

1.4 IPP owned Thermal Plant Dispatch

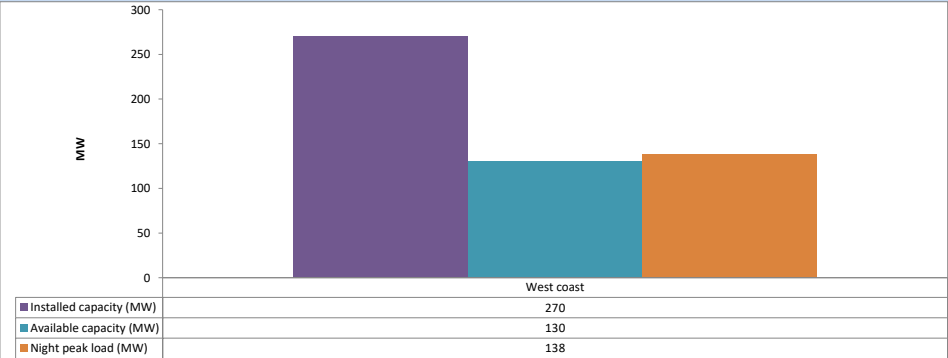
October 20, 2024



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

October 21, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

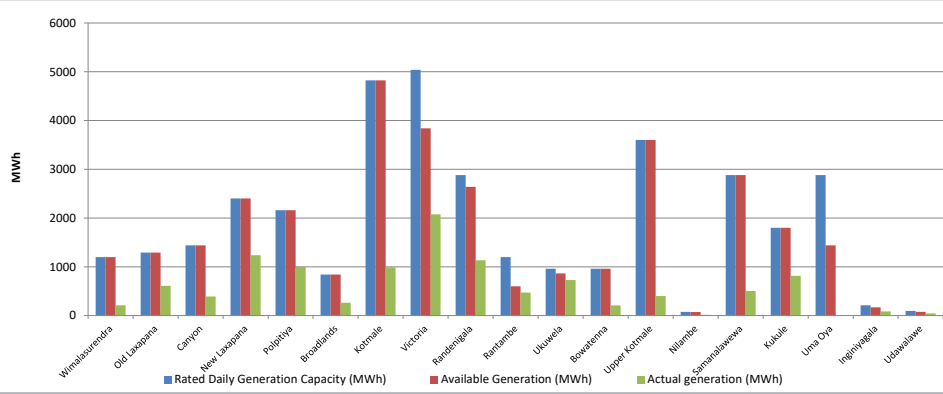


Plant availability is recorded at 6.00 am on

October 21, 2024

1.6 Major Hydro Plant Dispatch

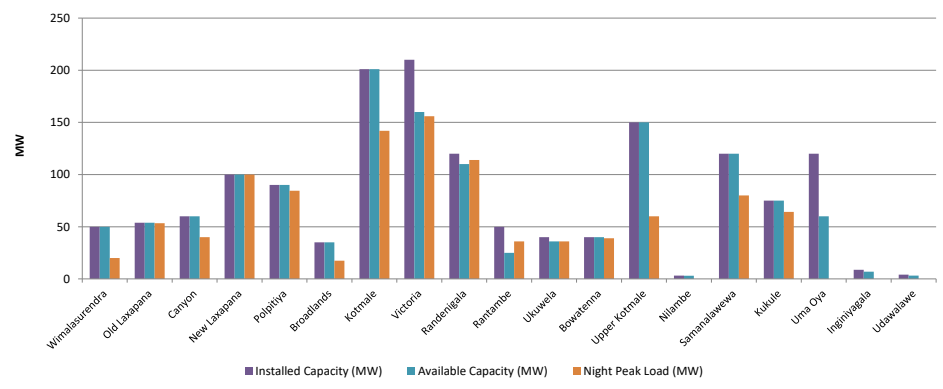
October 20, 2024



Available Generation is estimated based on plant availability at 6.00am on October 21, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 20, 2024



Plant availability is recorded at 6.00 am on October 21, 2024

1.8 Summary of Major Plant performance

October 20, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	212
Old Laxapana	54	54	53	609
Canyon	60	60	40	392
New Laxapana	100	100	100	1,238
Polpitiya	90	90	85	1,000
Broadlands	35	35	18	261
Kotmale	201	201	142	990
Victoria	210	160	156	2,076
Randenigala	120	110	114	1,135
Rantambe	50	25	36	471
Ukuwela	40	36	36	730
Bowatenna	40	40	39	208
Upper Kotmale	150	150	60	402
Nilambe	3	3	0	14
Samanlalawewa	120	120	80	505
Kukule	75	75	64	815
Uma Oya	120	60	0	0
Inginiyagala	9	7	0	85
Udawalawe	4	3	0	42
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	271	6,499
Puttalam Coal III	270	270	268	6,486
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	152	3,589
Sapugaskanda A	68	32	32	854
Sapugaskanda B	72	54	54	1,210
Uthura Janani	26	16	16	272
Barge CEB	60	60	60	1,119
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	7	0	0
KCCPS -2	155	0	0	0
West Coast	270	130	138	2,392
Sobadhanavi	220	212	0	0
Total	3,602	2,520	2,181	37,570

Note- Plant availability is the availability recorded at 6 am on October 21, 2024

1.9 Contribution to the Night Peak in MW

October 20, 2024

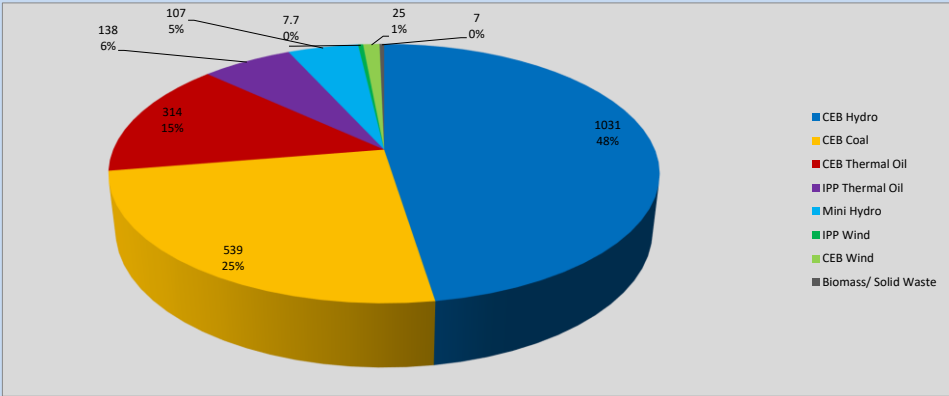


Table 05

CEB Hydro	1031	MW
CEB Coal	539	MW
CEB Thermal Oil	314	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	107	MW
IPP Wind	7.7	MW
CEB Wind	25	MW
Biomass/ Solid Waste	7	MW

Recorded Peak Demand Data

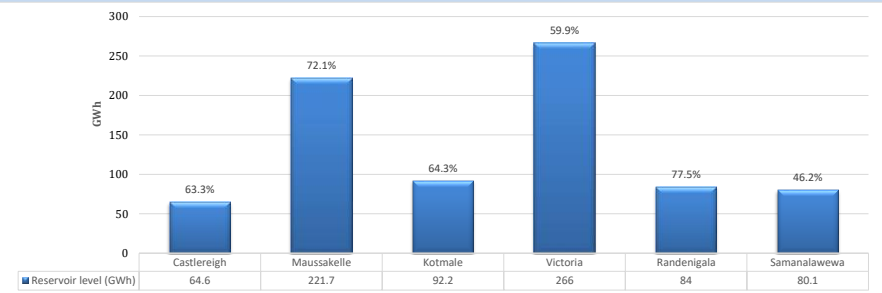
Table 06

Night Peak*	2,169	MW
Day Peak Maximum Demand	1,723	MW
Day Peak Minimum Demand	1,248	MW
Off Peak Minimum Demand	1,410	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 21, 2024



Total Reservoir Level 808.6 GWh
% of Total capacity 63.2%

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

October 20, 2024

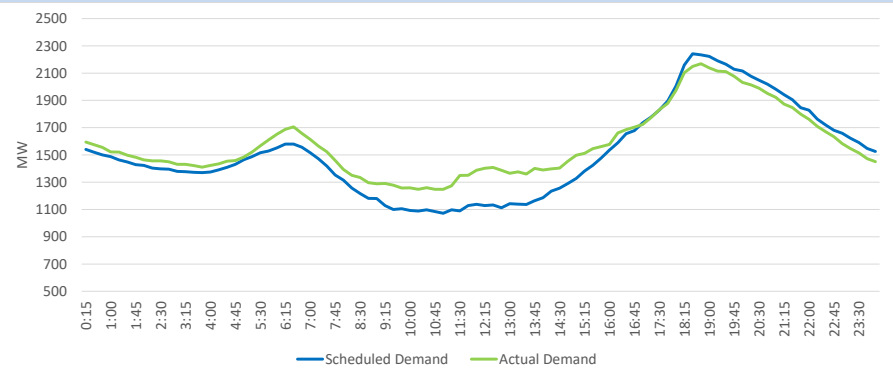
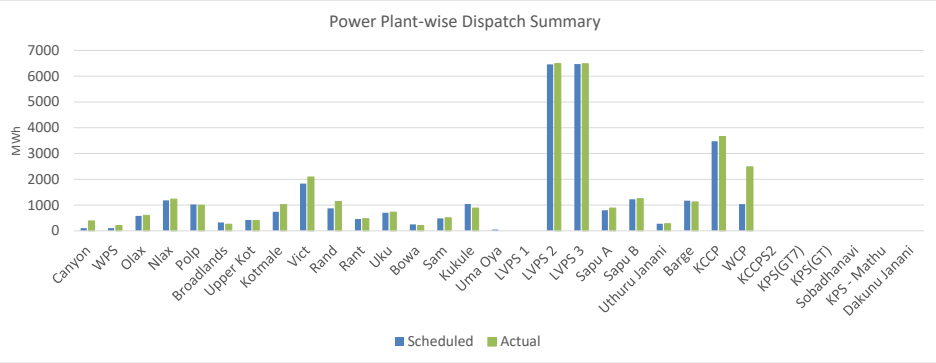


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	10,168	11,113	944
CEB Coal	12,928	12,976	47
CEB Thermal Oil	6,945	7,188	243
IPP Thermal Oil	1,033	2,482	1,449
NCRE (Telemetered)	5,166	4,030	(1,136)
Total	36,240	37,788	1,548

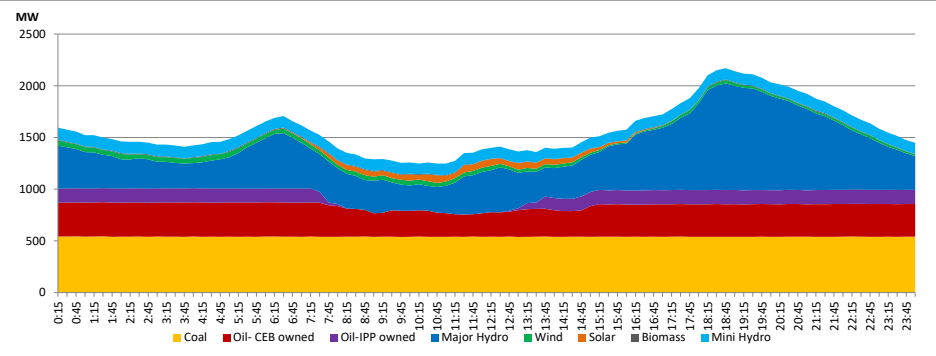
1.12 Power Plant-wise Dispatch Summary

October 20, 2024



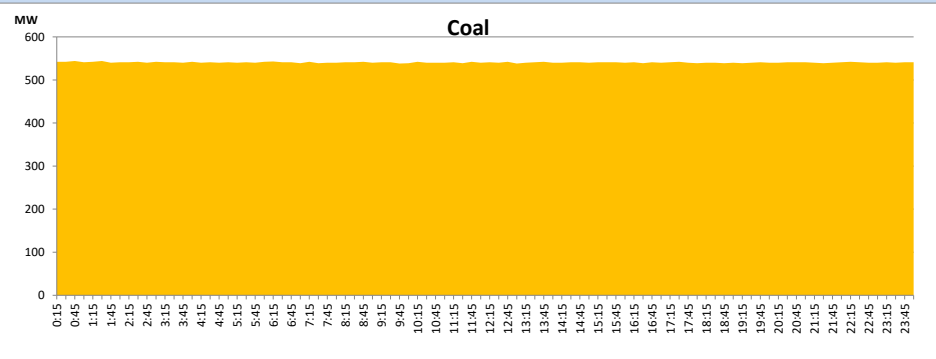
1.13 Daily Load Curve

October 20, 2024



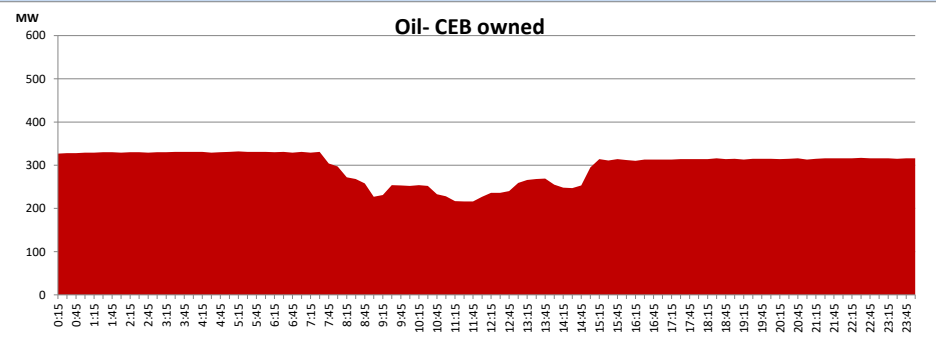
Coal Generation during

October 20, 2024

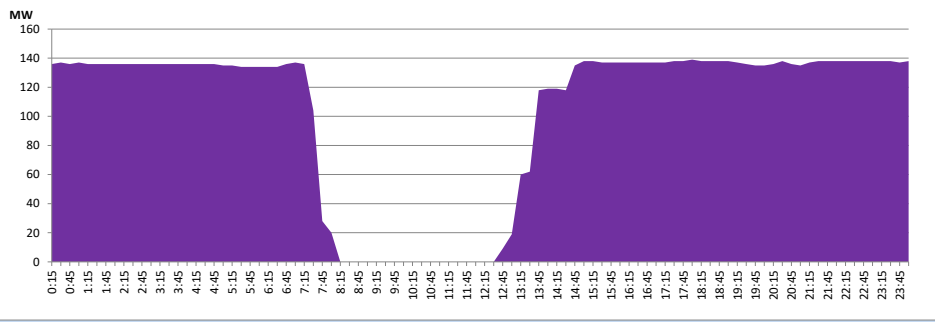


CEB Oil Plant Generation during

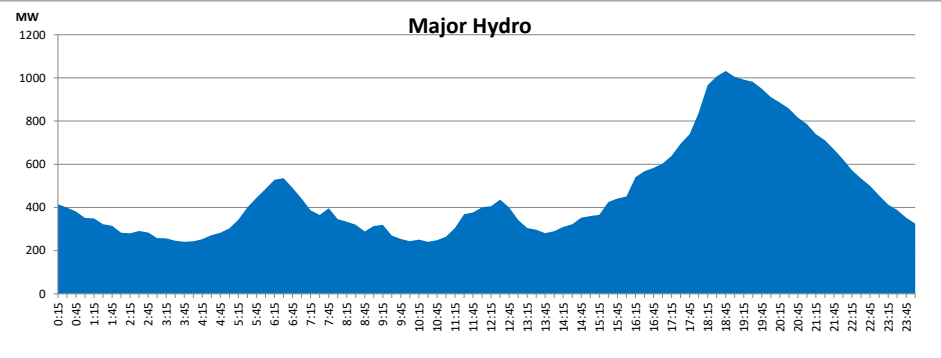
October 20, 2024



IPP Oil Plant Generation during October 20, 2024

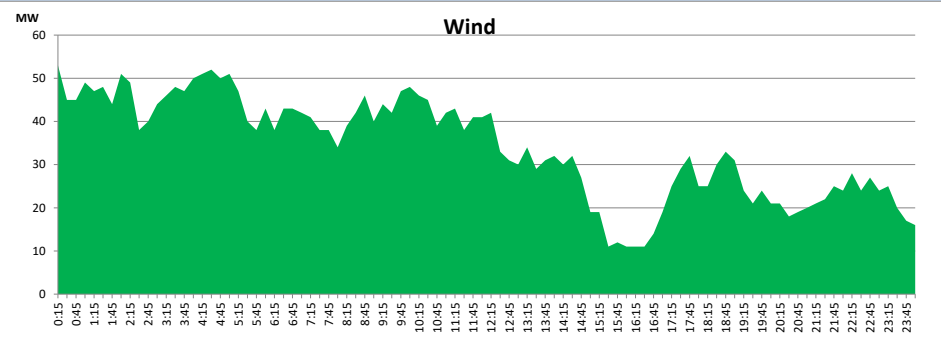


Major Hydro Generation during October 20, 2024



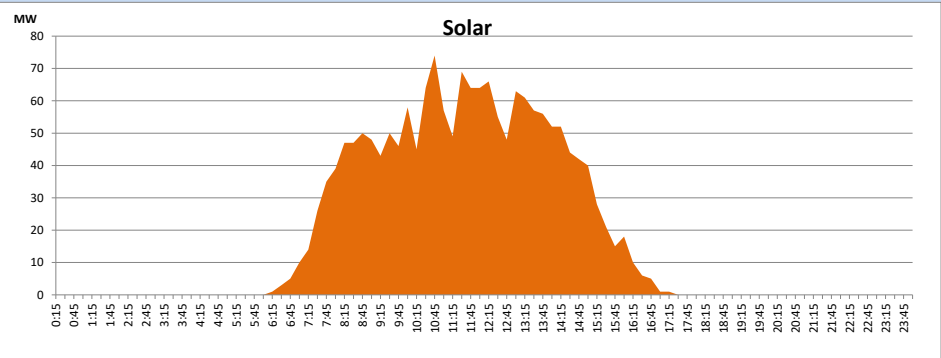
Wind Generation during October 20, 2024

Based on Telemetered Power Stations only



Solar Generation during October 20, 2024

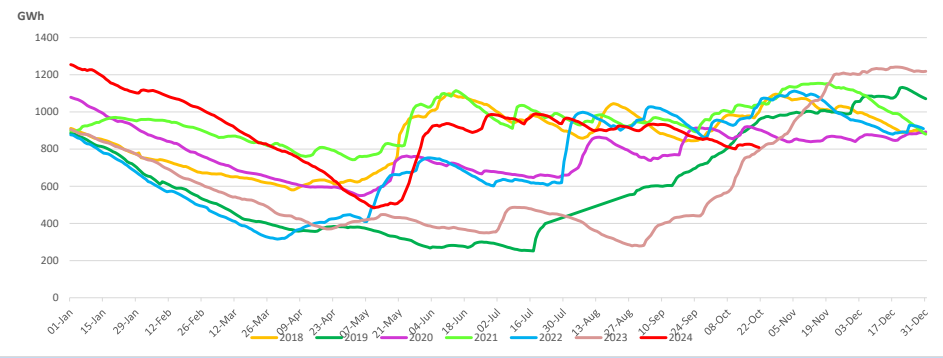
Based on Telemetered Power Stations only



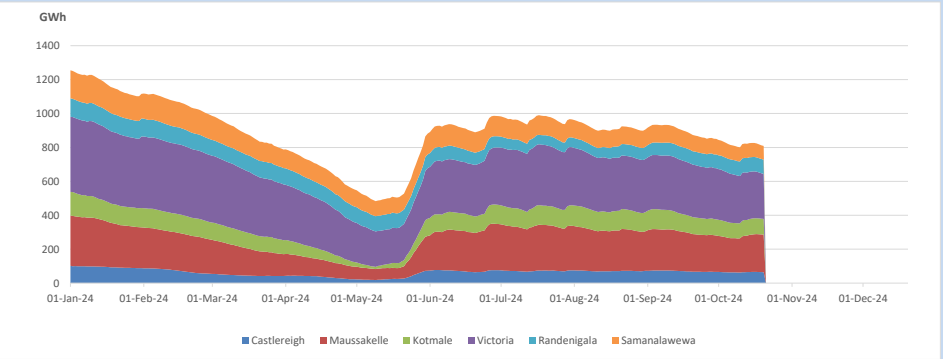
1.14 Major Incidents reported during the day October 20, 2024

1) Mannar 33kV feeder 02 tripped and A/R due to the operation of O/C protection at 15:26hrs. Subsequently, Mannar 220/33kV T/F tripped from both ends with an indication of LV REF protection trip, causing all 33kV feeders to be dead. The T/F was normalized at 15:42hrs and all affected feeders were normalized at 15:47hrs.

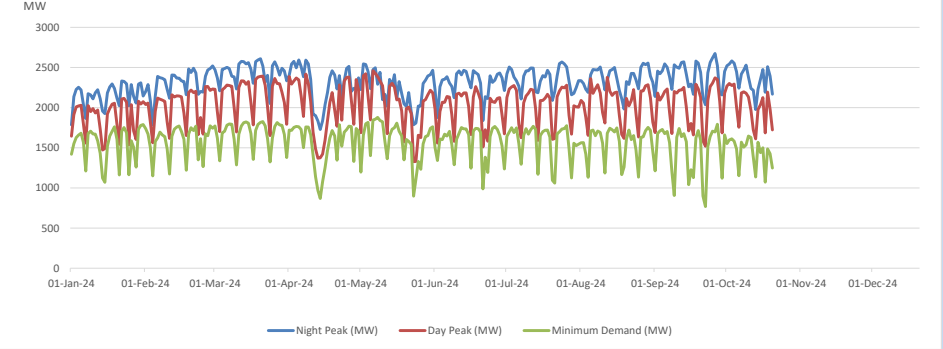
2. Comparison of Total Reservoir Storage Levels with Past Years



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

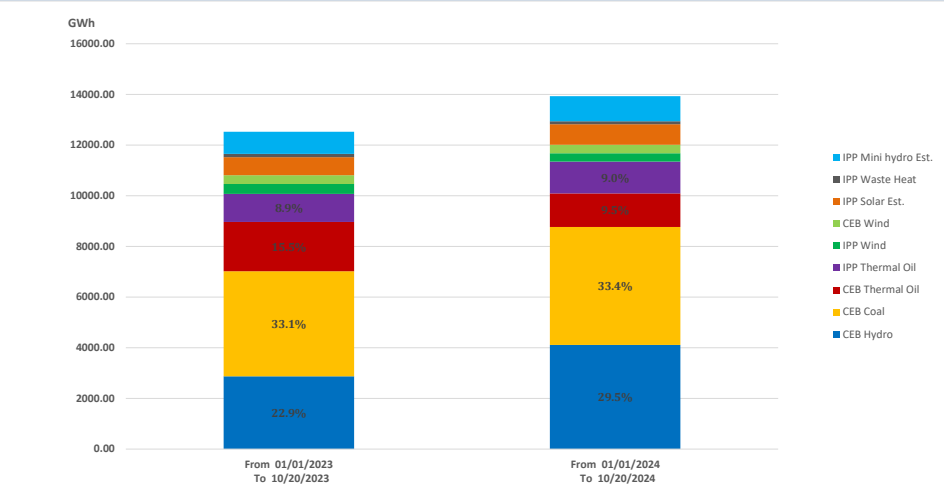


4. Variation of Demand during the current year



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 10/20/2023 12525 GWh
From 01/01/2024 To 10/20/2024 13928 GWh
The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unservd 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