

Generation and Reservoirs Statistics

October 27, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 27, 2024

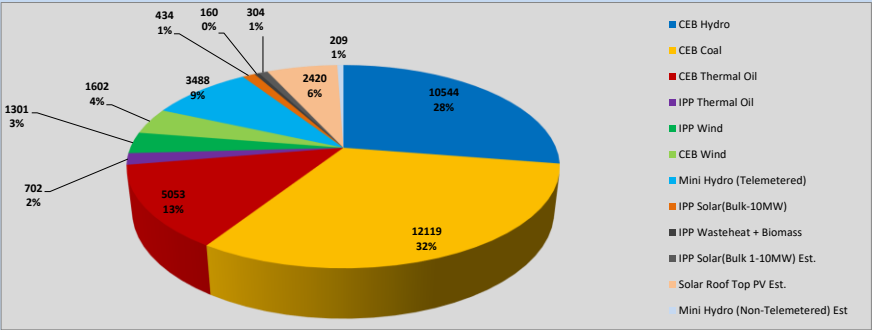


Table 01

	Generation (MWh)
CEB Hydro	10,544
CEB Coal	12,119
CEB Thermal Oil	5,053
IPP Thermal Oil	702
IPP Wind	1,301
CEB Wind	1,602
Mini Hydro (Telemetered)	3,488
IPP Solar (Bulk)	434
IPP Waste heat + Biomass	160
Total Generation (Excluding estimated figures)	35,403
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	209
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,420
Total Generation (Including estimated figures)	38,336

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	341	28.64%
CEB Coal	348	29.24%
CEB Thermal Oil	172	14.45%
IPP Thermal	112	9.41%
IPP Wind	21	1.80%
CEB Wind	27	2.30%
Mini Hydro *	80	6.76%
IPP Solar *	82	6.93%
IPP Waste heat + BMP	6	0.47%
Total	1,190	

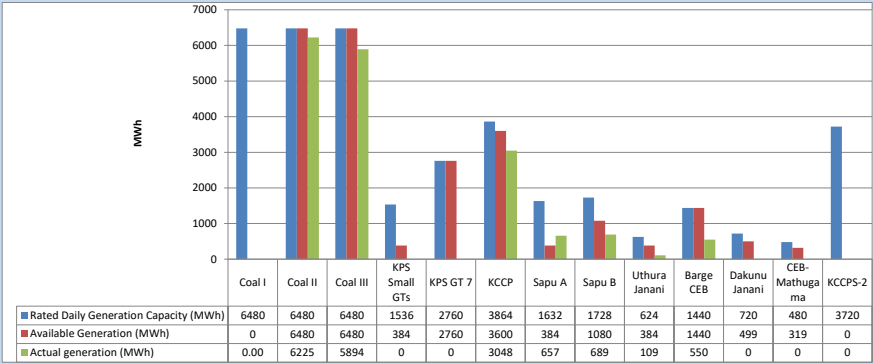
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,194	29.46%
CEB Coal	4,748	33.35%
CEB Thermal Oil	1,373	9.64%
IPP Thermal	1,286	9.03%
IPP Wind	333	2.34%
CEB Wind	346	2.43%
Mini Hydro *	1,010	7.09%
IPP Solar *	829	5.82%
IPP Waste heat	120	0.84%
Total	14,238	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 27, 2024

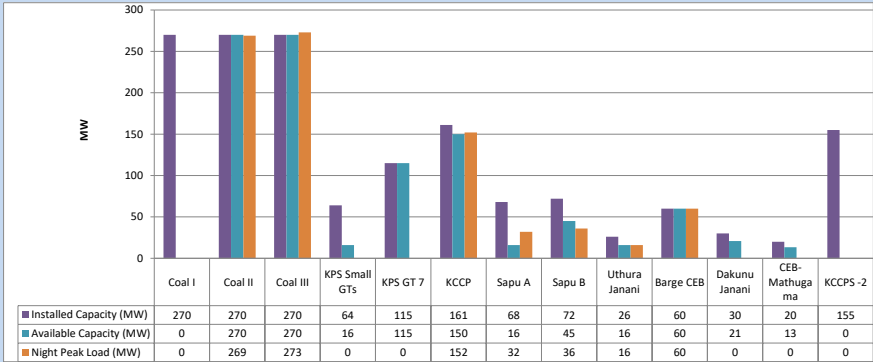


Available Generation is estimated based on plant availability at 6.00am on

October 28, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 27, 2024

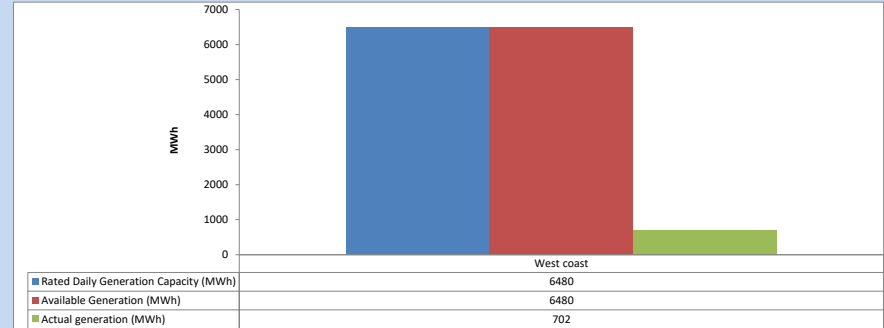


Plant availability is recorded at 6.00 am on

October 28, 2024

1.4 IPP owned Thermal Plant Dispatch

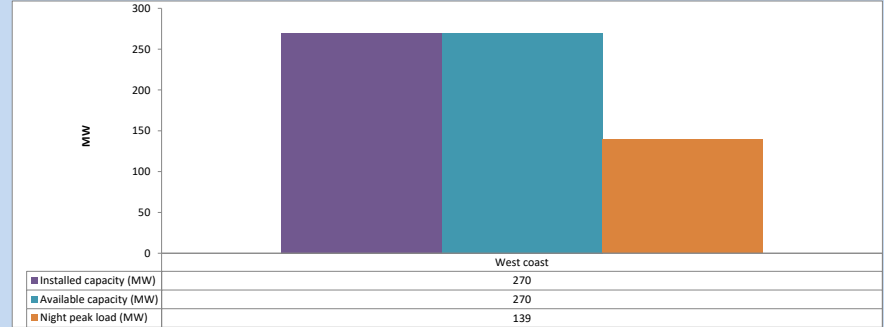
October 27, 2024



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

October 28, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

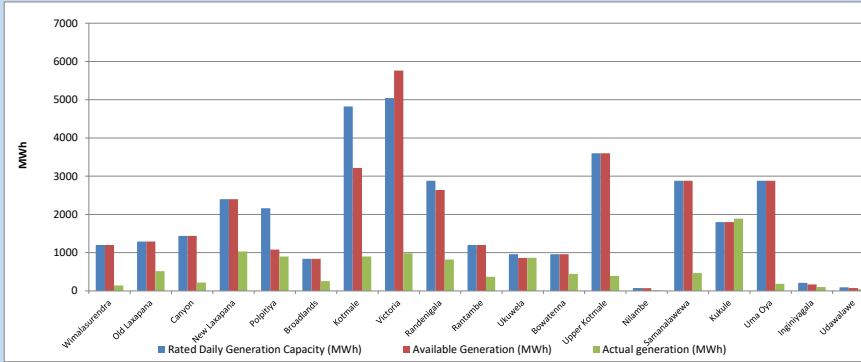


Plant availability is recorded at 6.00 am on

October 28, 2024

1.6 Major Hydro Plant Dispatch

October 27, 2024

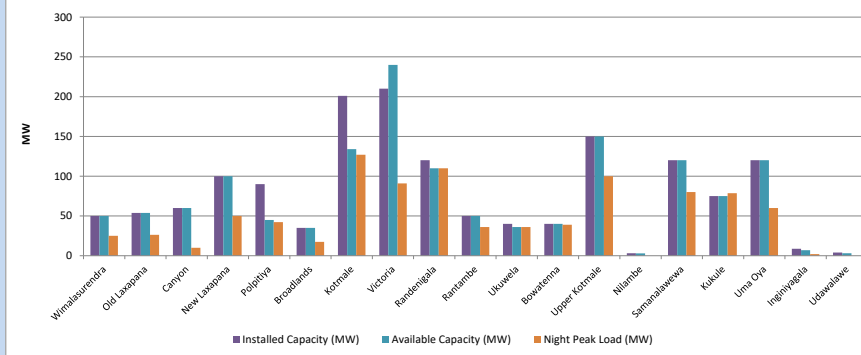


Available Generation is estimated based on plant availability at 6.00am on

October 28, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 27, 2024



Plant availability is recorded at 6.00 am on

October 28, 2024

1.8 Summary of Major Plant performance

October 27, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	25	145
Old Laxapana	54	54	26	516
Canyon	60	60	10	219
New Laxapana	100	100	50	1,033
Polpitiya	90	45	42	900
Broadlands	35	35	18	258
Kotmale	201	134	127	900
Victoria	210	240	91	981
Randenigala	120	110	110	820
Rantambe	50	50	36	370
Ukuwela	40	36	36	868
Bowatenna	40	40	39	443
Upper Kotmale	150	150	100	392
Nilambe	3	3	0	16
Samanalawewa	120	120	80	467
Kukule	75	75	79	1,889
Uma Oya	120	120	60	185
Inginigala	9	7	2	101
Udawalawe	4	3	0	40
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,225
Puttalam Coal III	270	270	273	5,894
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	152	3,048
Sapugaskanda A	68	16	32	657
Sapugaskanda B	72	45	36	689
Uthura Janani	26	16	16	109
Barge CEB	60	60	60	550
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	13	0	0
KCCPS-2	155	0	0	0
West Coast	270	270	139	702
Sobadhanavi	220	0	0	0
Total	3,602	2,906	2,155	35,402

Note-

Plant availability is the availability recorded at 6 am on

October 28, 2024

1.9 Contribution to the Night Peak in MW

October 27, 2024

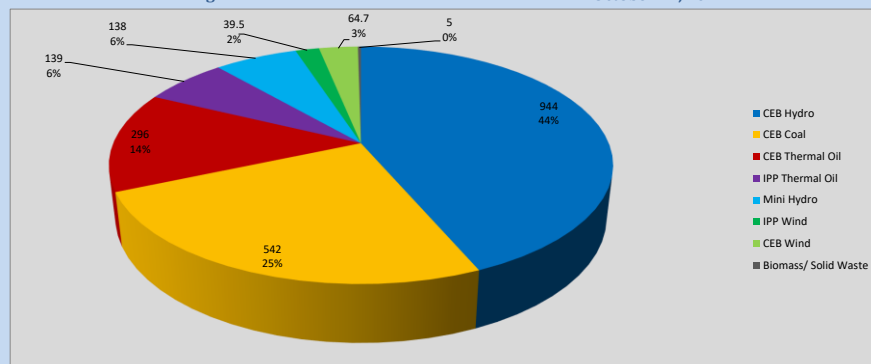


Table 05

CEB Hydro	944	MW
CEB Coal	542	MW
CEB Thermal Oil	296	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	138	MW
IPP Wind	39.5	MW
CEB Wind	64.7	MW
Biomass/ Solid Waste	5	MW

Recorded Peak Demand Data

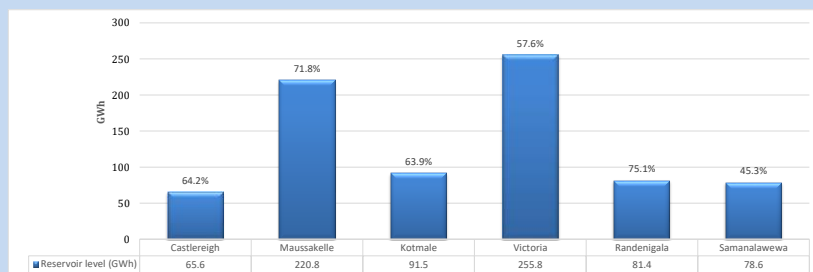
Table 06

Night Peak*	2,169	MW
Day Peak Maximum Demand	1,595	MW
Day Peak Minimum Demand	1,081	MW
Off Peak Minimum Demand	1,293	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 28, 2024



Total Reservoir Level
% of Total capacity

793.7 GWh
62.1%

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

October 27, 2024

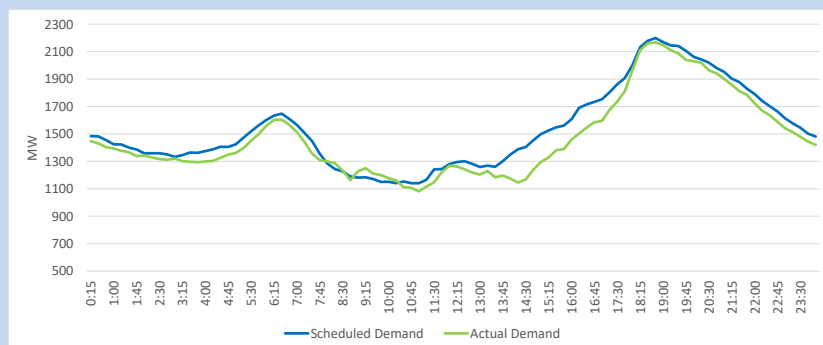
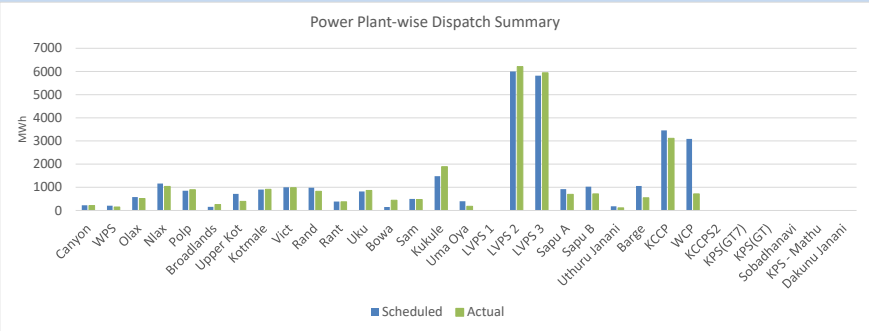


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	10,510	10,393	(117)
CEB Coal	11,820	12,152	332
CEB Thermal Oil	6,646	5,183	(1,463)
IPP Thermal Oil	3,092	717	(2,375)
NCRE (Telemetered)	4,737	6,836	2,099
Total	36,805	35,281	(1,524)

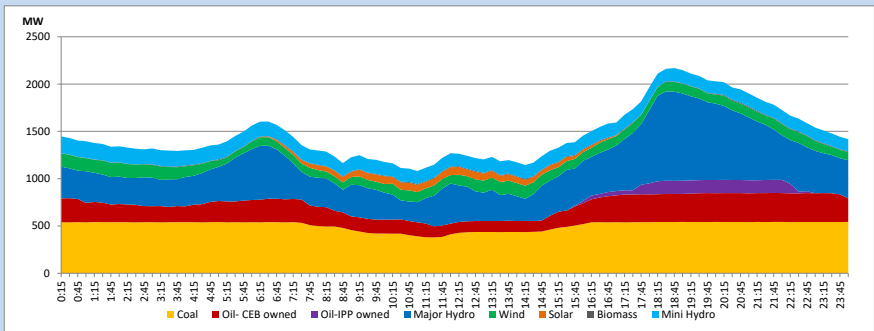
1.12 Power Plant-wise Dispatch Summary

October 27, 2024



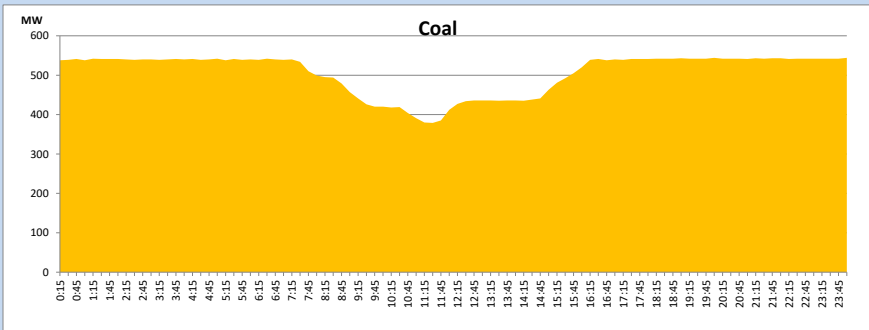
1.13 Daily Load Curve

October 27, 2024



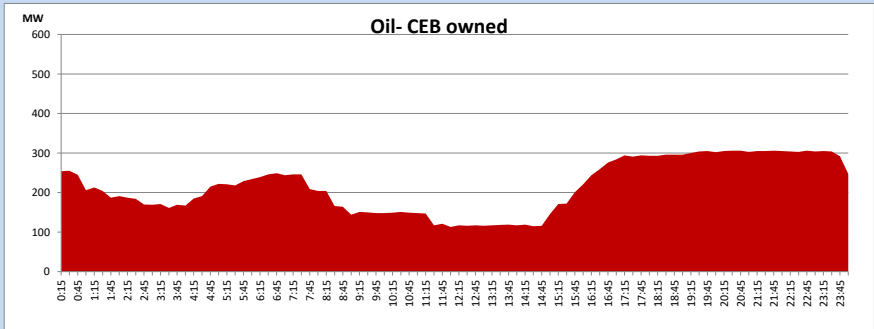
Coal Generation during

October 27, 2024



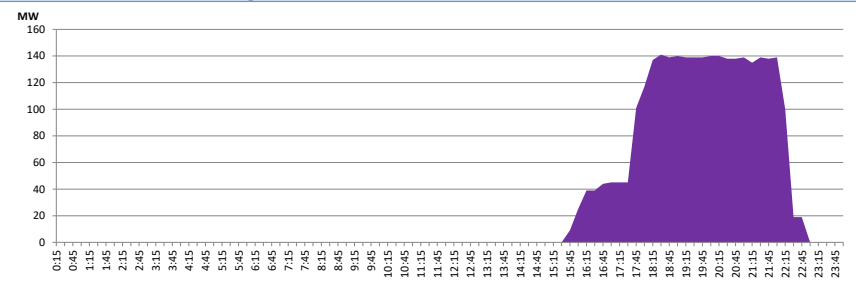
CEB Oil Plant Generation during

October 27, 2024



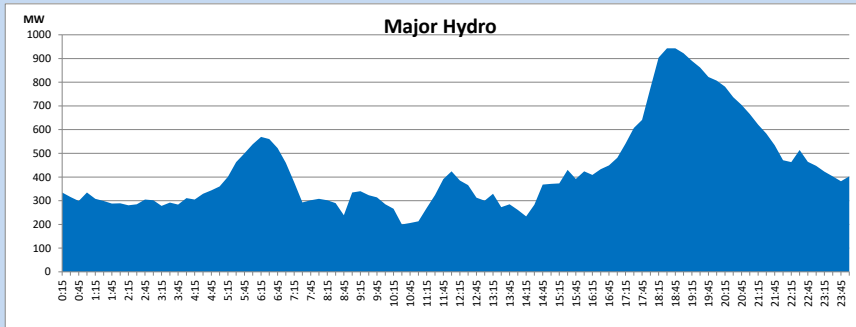
IPP Oil Plant Generation during

October 27, 2024



Major Hydro Generation during

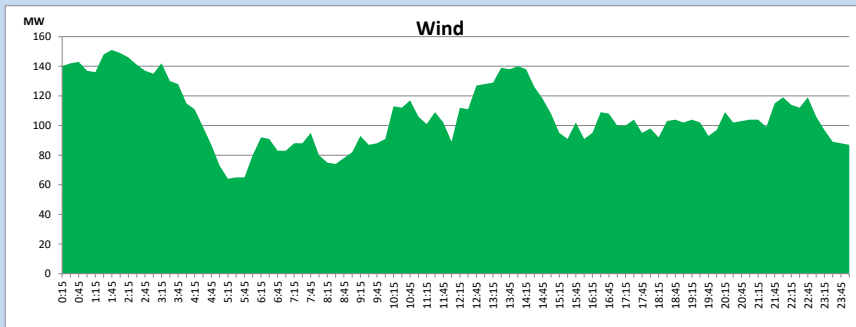
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Wind Generation during

October 27, 2024

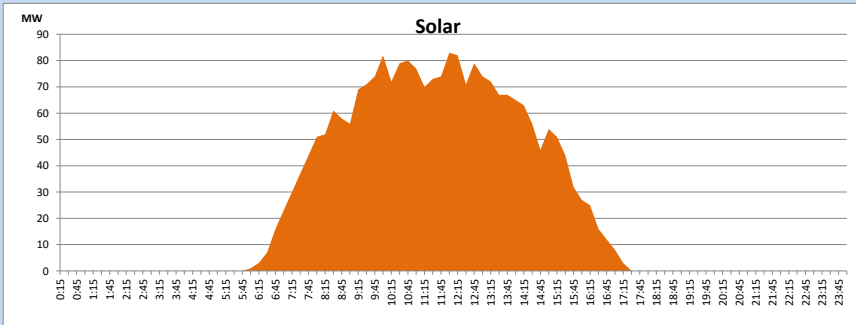
Based on Telemetered Power Stations only



Solar Generation during

October 27, 2024

Based on Telemetered Power Stations only

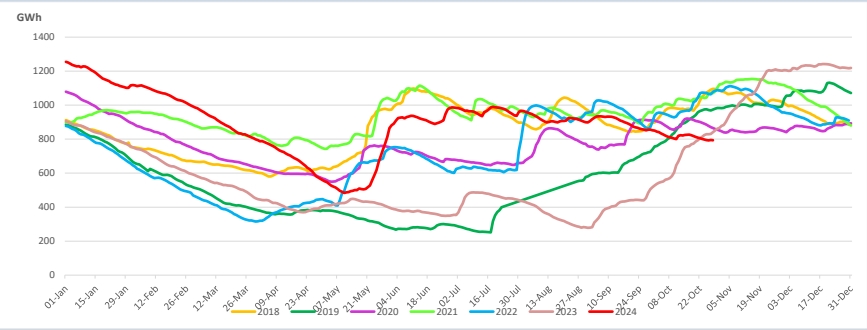


1.14 Major Incidents reported during the day

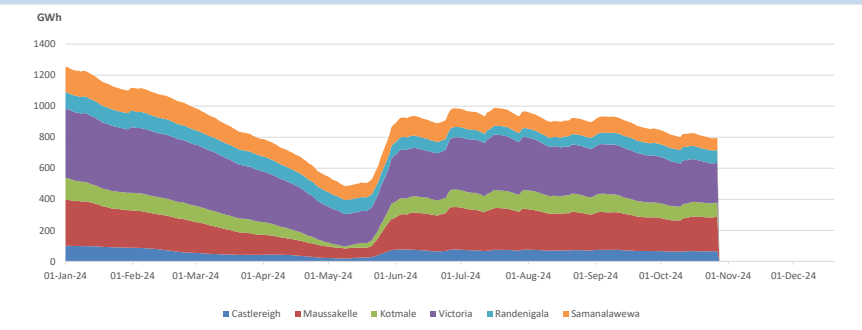
October 27, 2024

1) Nil

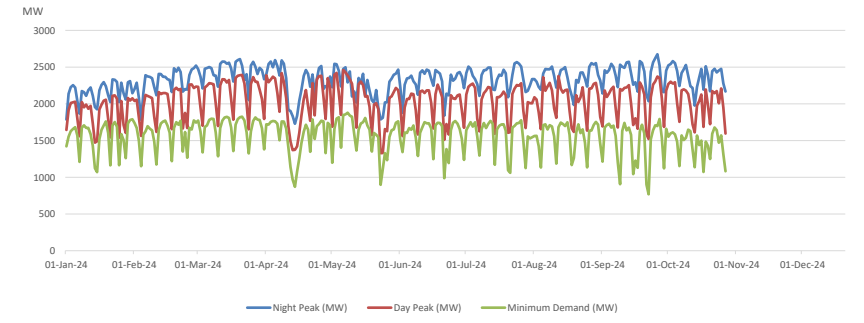
2. Comparison of Total Reservoir Storage Levels with Past Years



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

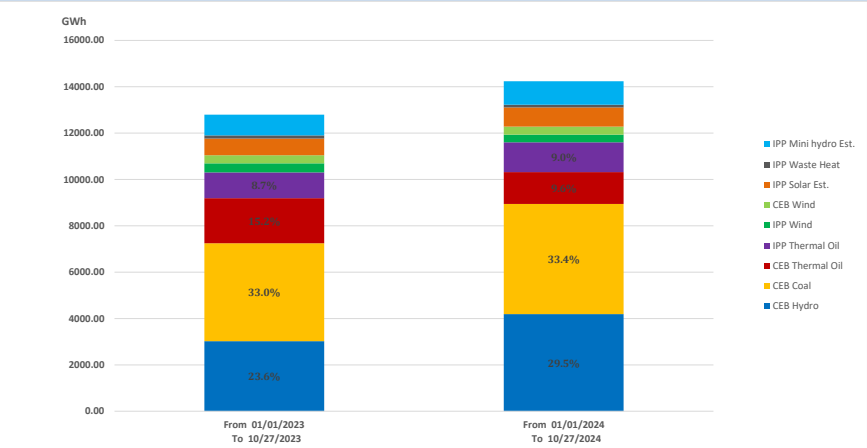


4. Variation of Demand during the current year



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 10/27/2023 12795 GWh
From 01/01/2024 To 10/27/2024 14238 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