

Generation and Reservoirs Statistics

October 29, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

October 29, 2024

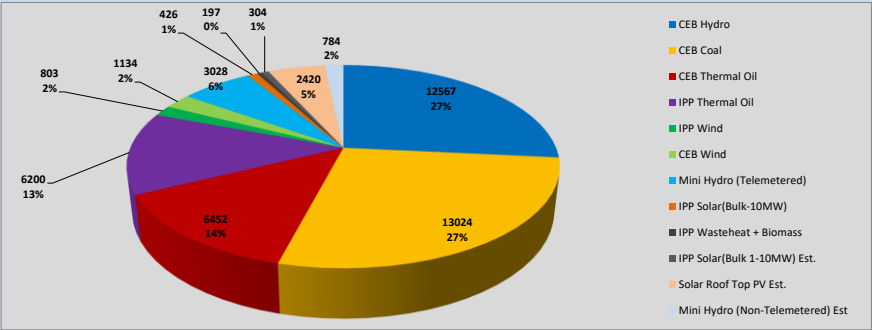


Table 01

	Generation (MWh)
CEB Hydro	12,567
CEB Coal	13,024
CEB Thermal Oil	6,452
IPP Thermal Oil	6,200
IPP Wind	803
CEB Wind	1,134
Mini Hydro (Telemetered)	3,028
IPP Solar (Bulk)	426
IPP Waste heat + Biomass	197
Total Generation (Excluding estimated figures)	43,831
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	784
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,420
Total Generation (Including estimated figures)	47,339

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	366	28.53%
CEB Coal	374	29.16%
CEB Thermal Oil	185	14.42%
IPP Thermal	122	9.51%
IPP Wind	23	1.82%
CEB Wind	30	2.33%
Mini Hydro *	88	6.84%
IPP Solar *	89	6.92%
IPP Waste heat + BMP	6	0.46%
Total	1,282	

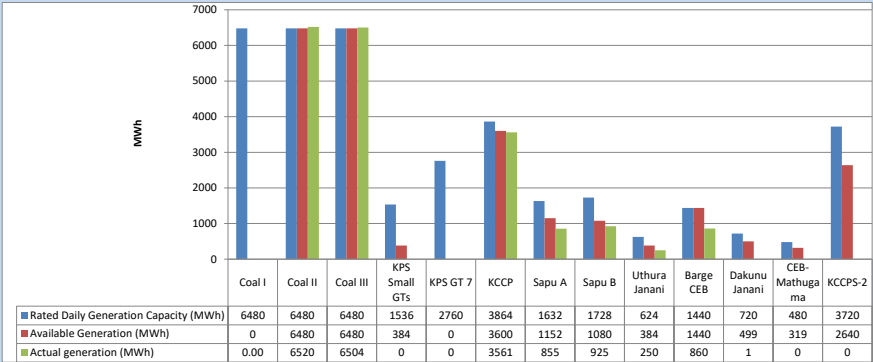
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,216	30.52%
CEB Coal	4,771	34.54%
CEB Thermal Oil	1,385	10.02%
IPP Thermal	685	4.96%
IPP Wind	376	2.72%
CEB Wind	347	2.51%
Mini Hydro *	1,064	7.70%
IPP Solar *	846	6.12%
IPP Waste heat	127	0.92%
Total	13,816	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

October 29, 2024

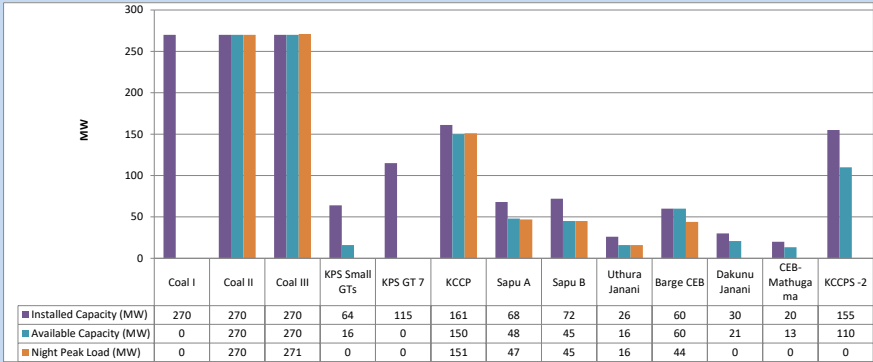


Available Generation is estimated based on plant availability at 6.00am on

October 30, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

October 29, 2024

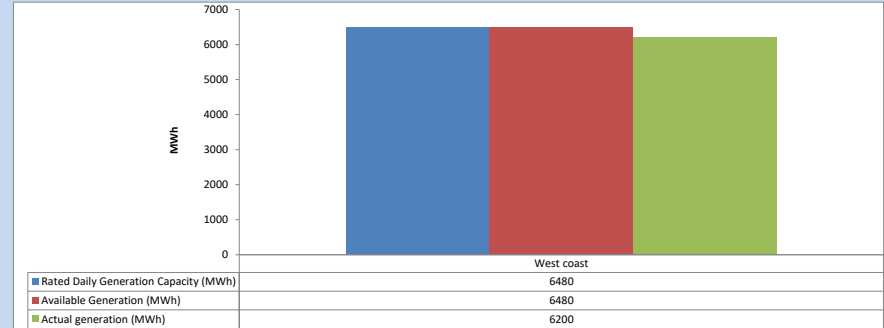


Plant availability is recorded at 6.00 am on

October 30, 2024

1.4 IPP owned Thermal Plant Dispatch

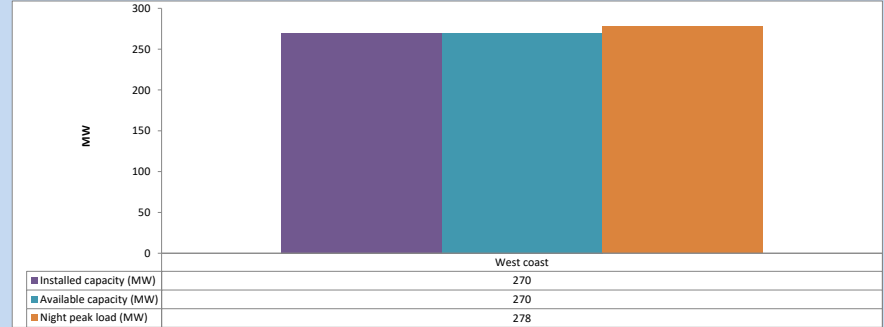
October 29, 2024



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

October 30, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

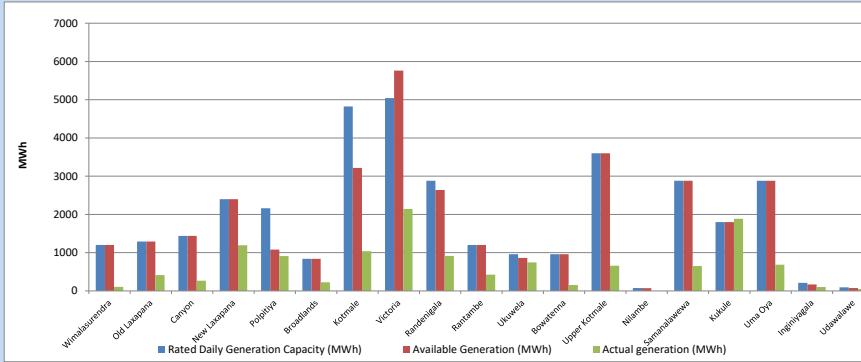


Plant availability is recorded at 6.00 am on

October 30, 2024

1.6 Major Hydro Plant Dispatch

October 29, 2024

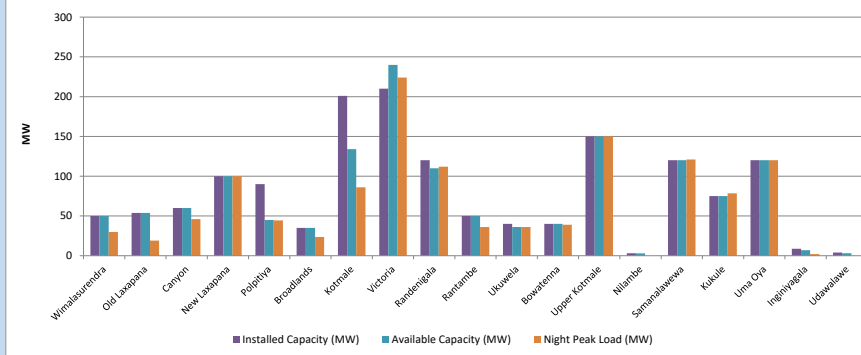


Available Generation is estimated based on plant availability at 6.00am on

October 30, 2024

1.7 Major Hydro Plant Loading at Night Peak

October 29, 2024



Plant availability is recorded at 6.00 am on

October 30, 2024

1.8 Summary of Major Plant performance

October 29, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	105
Old Laxapana	54	54	19	413
Canyon	60	60	46	266
New Laxapana	100	100	100	1,193
Polpitiya	90	45	44	910
Broadlands	35	35	24	227
Kotmale	201	134	86	1,040
Victoria	210	240	224	2,144
Randenigala	120	110	112	914
Rantambe	50	50	36	426
Ukuwela	40	36	36	746
Bowatenna	40	40	39	154
Upper Kotmale	150	150	150	658
Nilambe	3	3	0	0
Samanalawewa	120	120	121	650
Kukule	75	75	79	1,885
Uma Oya	120	120	120	687
Inginigala	9	7	2	101
Udawalawe	4	3	0	48
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,520
Puttalam Coal III	270	270	271	6,504
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	151	3,561
Sapugaskanda A	68	48	47	855
Sapugaskanda B	72	45	45	925
Uthura Janani	26	16	16	250
Barge CEB	60	60	44	860
CEB-Hambantota	30	21	0	1
CEB-Mathugama	20	13	0	0
KCCPS-2	155	110	0	0
West Coast	270	270	278	6,200
Sobadhanavi	220	0	0	0
Total	3,602	2,933	2,559	43,831

Note-

Plant availability is the availability recorded at 6 am on

October 30, 2024

1.9 Contribution to the Night Peak in MW

October 29, 2024

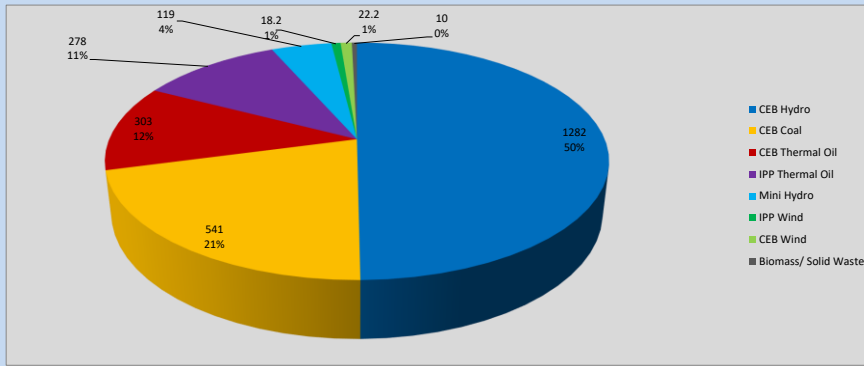


Table 05

CEB Hydro	1282	MW
CEB Coal	541	MW
CEB Thermal Oil	303	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	119	MW
IPP Wind	18.2	MW
CEB Wind	22.2	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

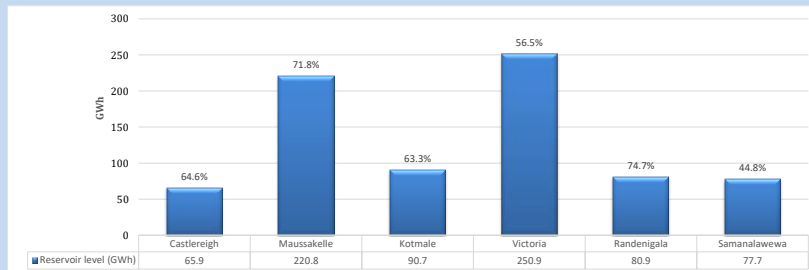
Table 06

Night Peak*	2,573	MW
Day Peak Maximum Demand	2,249	MW
Day Peak Minimum Demand	1,593	MW
Off Peak Minimum Demand	1,387	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 30, 2024



Total Reservoir Level
786.9 GWh
% of Total capacity
61.5%

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

October 29, 2024

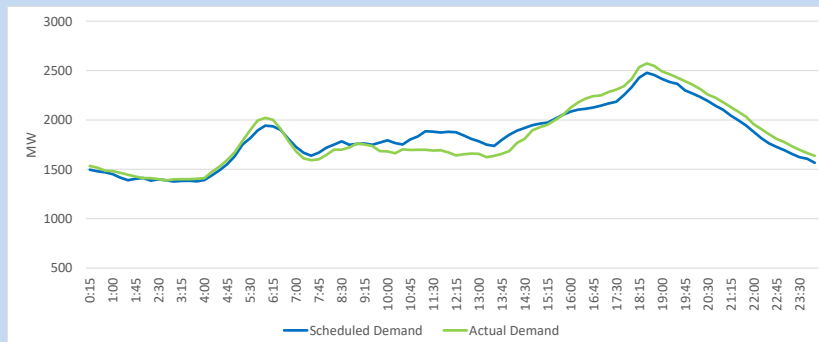
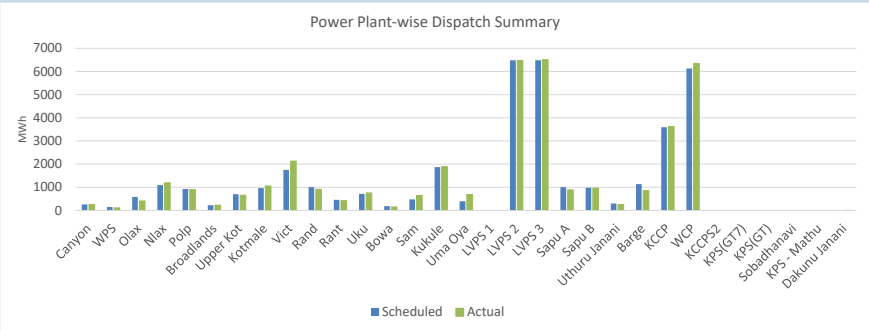


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,771	12,429	658
CEB Coal	12,960	12,975	15
CEB Thermal Oil	7,020	6,599	(421)
IPP Thermal Oil	6,131	6,345	214
NCRE (Telemetered)	6,059	5,669	(390)
Total	43,941	44,017	76

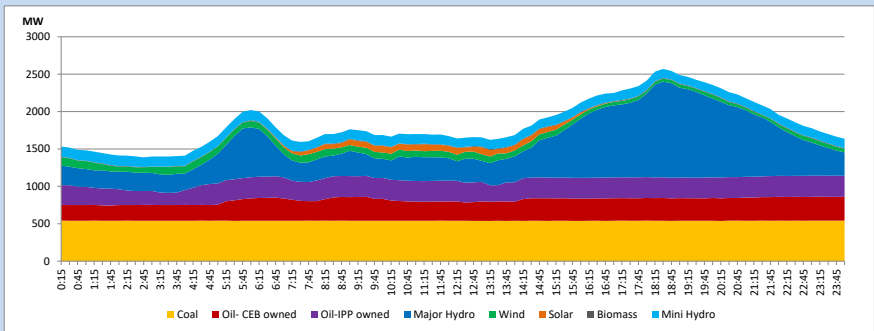
1.12 Power Plant-wise Dispatch Summary

October 29, 2024



1.13 Daily Load Curve

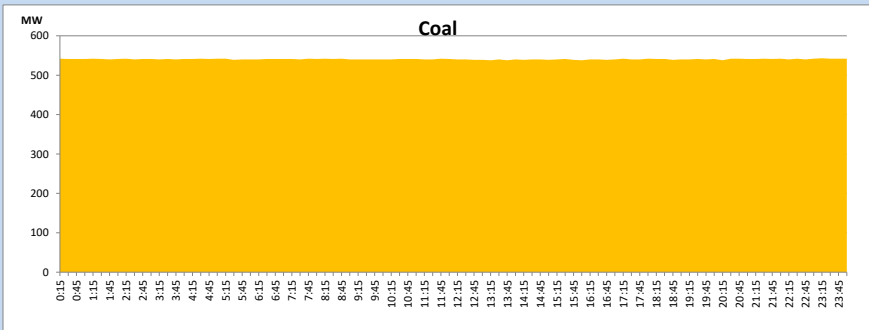
October 29, 2024



Solar and wind data is based on Telemetered Power Stations only

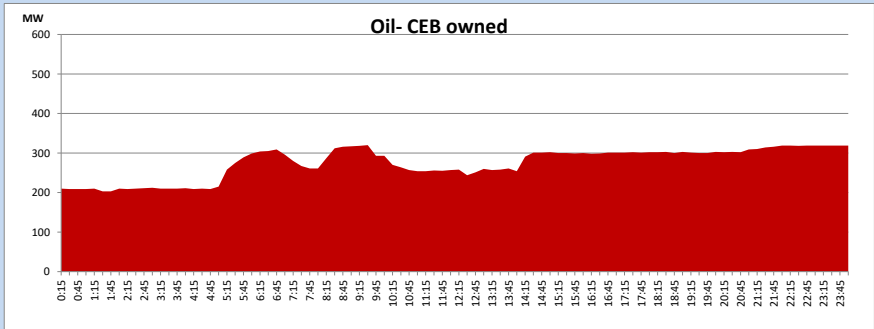
Coal Generation during

October 29, 2024



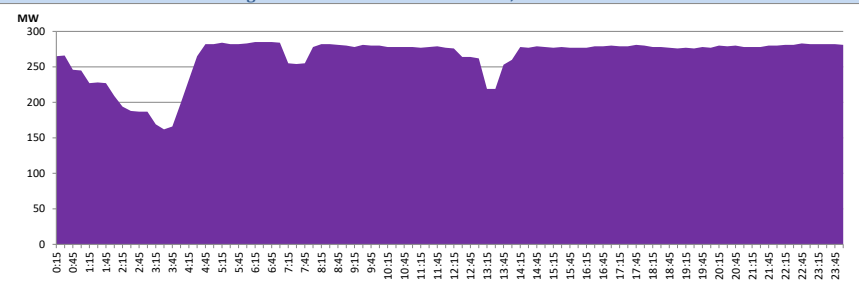
CEB Oil Plant Generation during

October 29, 2024



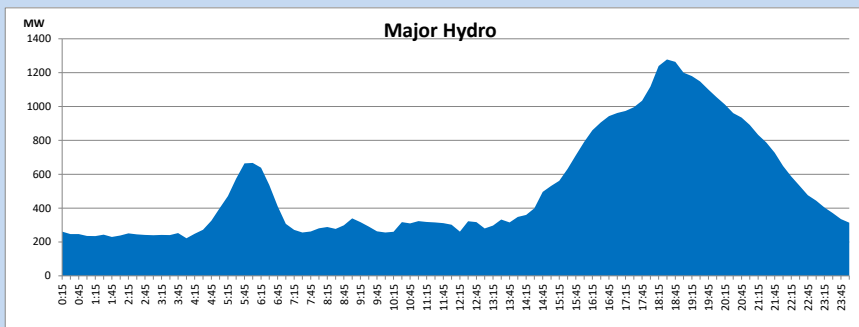
IPP Oil Plant Generation during

October 29, 2024



Major Hydro Generation during

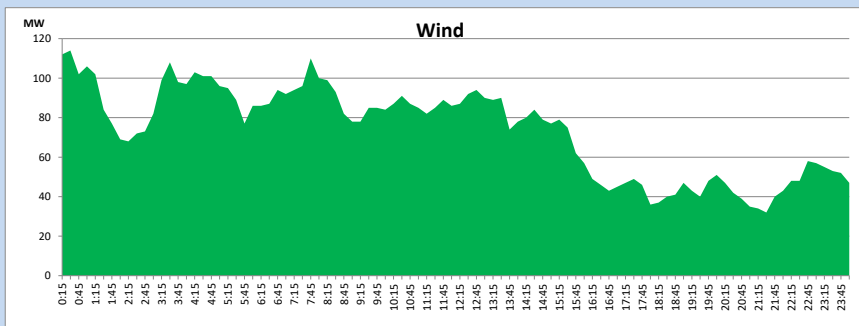
October 29, 2024



Wind Generation during

October 29, 2024

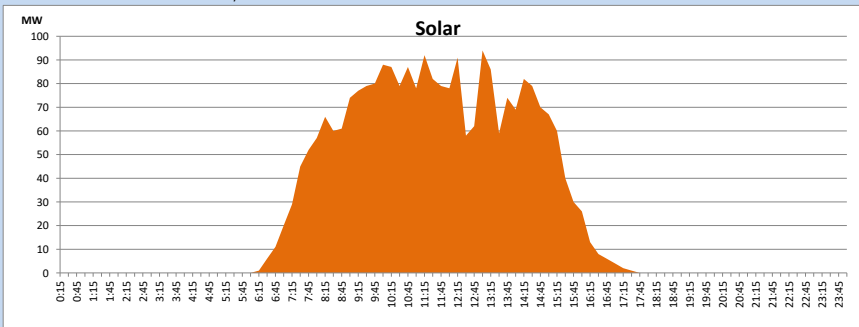
Based on Telemetered Power Stations only



Solar Generation during

October 29, 2024

Based on Telemetered Power Stations only

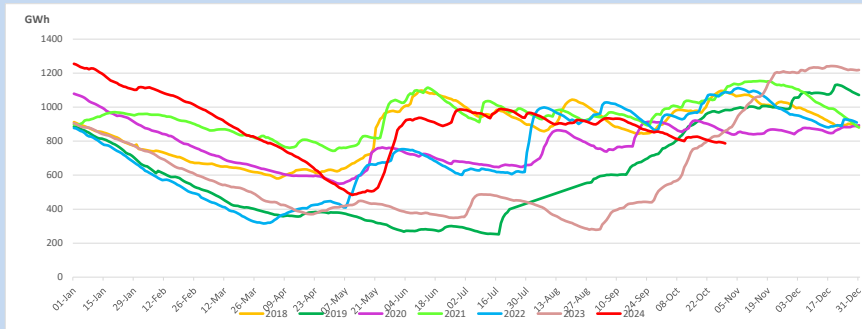


1.14 Major Incidents reported during the day

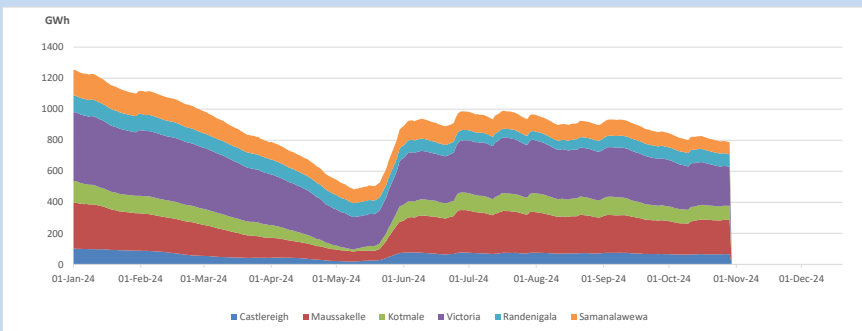
October 29, 2024

- 1) Kerawalapitiya – New Kerawalapitiya Interconnection 01 220kV cable was energized for the first time for the soak test from the Kerawalapitiya end at 18:03hrs.

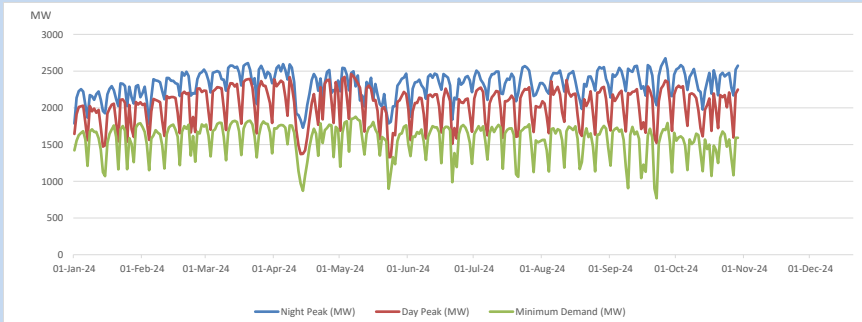
2. Comparison of Total Reservoir Storage Levels with Past Years



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

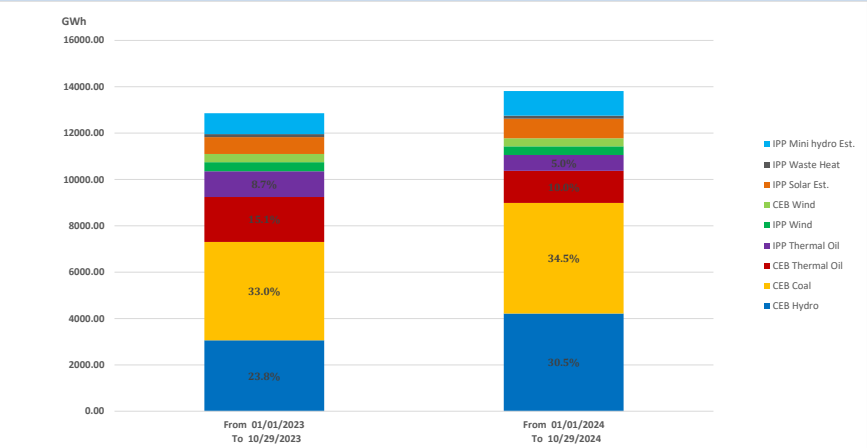


4. Variation of Demand during the current year



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 10/29/2023 12860 GWh
From 01/01/2024 To 10/29/2024 13816 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)	495
Rooftop Solar (LT Bulk)	338
Rooftop Solar (HT Bulk)	104

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities