

Generation and Reservoirs Statistics

November 11, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 11, 2024

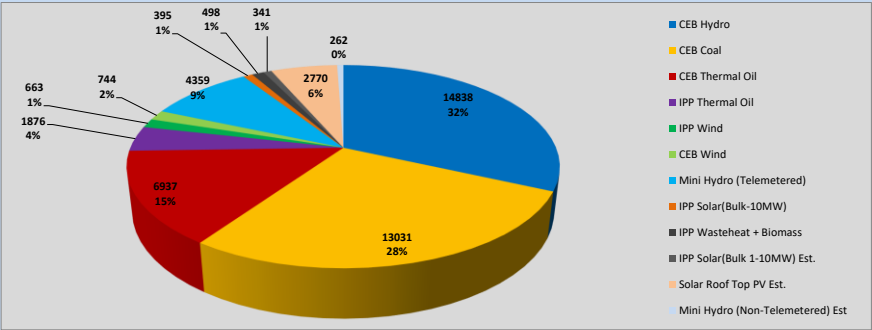


Table 01

	Generation (MWh)
CEB Hydro	14,838
CEB Coal	13,031
CEB Thermal Oil	6,937
IPP Thermal Oil	1,876
IPP Wind	663
CEB Wind	744
Mini Hydro (Telemetered)	4,359
IPP Solar (Bulk)	395
IPP Waste heat + Biomass	498
Total Generation (Excluding estimated figures)	43,341
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	262
* Estimated IPP Solar PV (Bulk 1-10MW)	341
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	46,714

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	162	33.10%
CEB Coal	139	28.51%
CEB Thermal Oil	51	10.46%
IPP Thermal	26	5.28%
IPP Wind	4	0.74%
CEB Wind	4	0.92%
Mini Hydro *	60	12.35%
IPP Solar *	37	7.68%
IPP Waste heat + BMP	5	0.97%
Total	488	

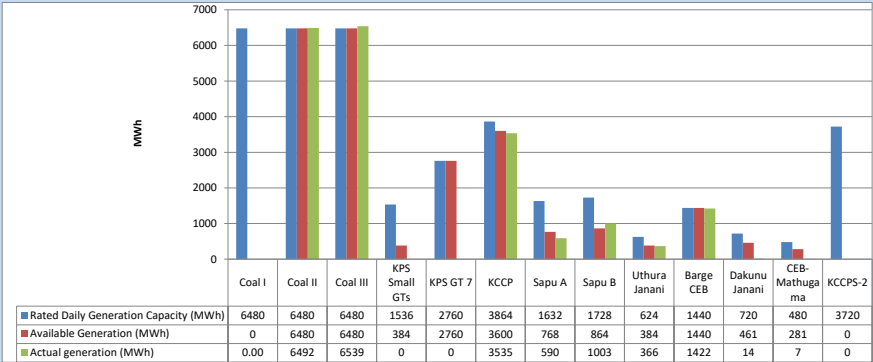
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,402	30.58%
CEB Coal	4,937	34.29%
CEB Thermal Oil	1,450	10.07%
IPP Thermal	723	5.03%
IPP Wind	380	2.64%
CEB Wind	352	2.45%
Mini Hydro *	1,130	7.85%
IPP Solar *	889	6.18%
IPP Waste heat	132	0.92%
Total	14,396	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 11, 2024

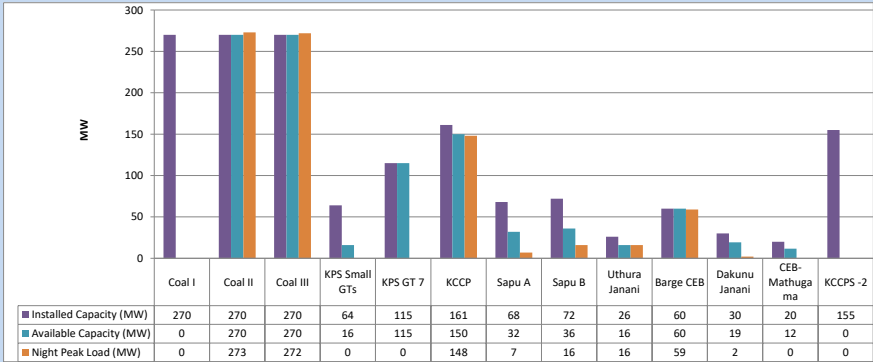


Available Generation is estimated based on plant availability at 6.00am on

November 12, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 11, 2024

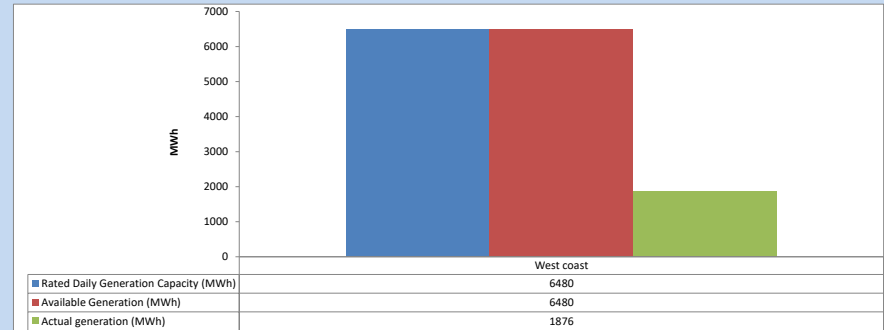


Plant availability is recorded at 6.00 am on

November 12, 2024

1.4 IPP owned Thermal Plant Dispatch

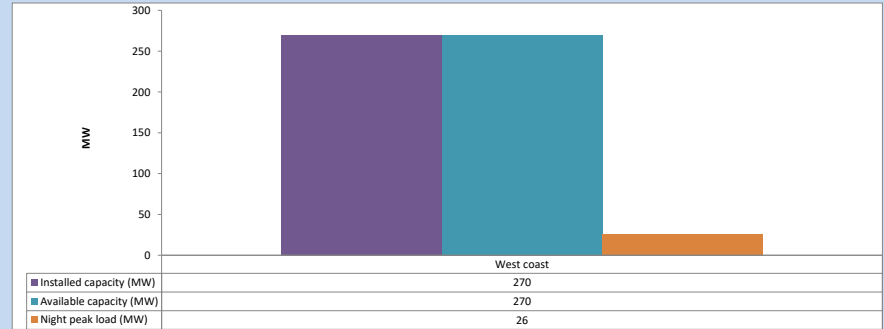
November 11, 2024



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

November 12, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

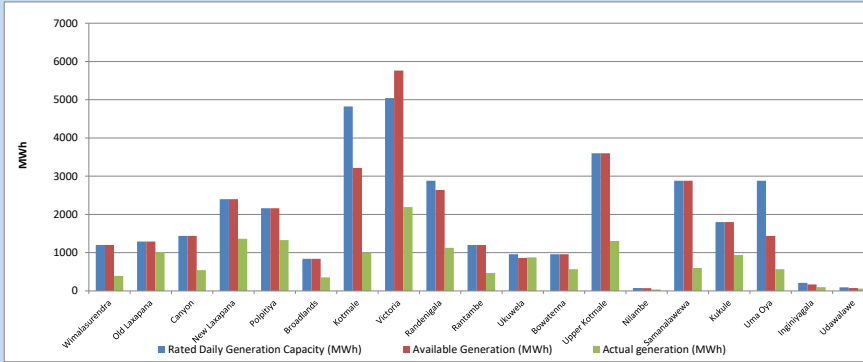


Plant availability is recorded at 6.00 am on

November 12, 2024

1.6 Major Hydro Plant Dispatch

November 11, 2024

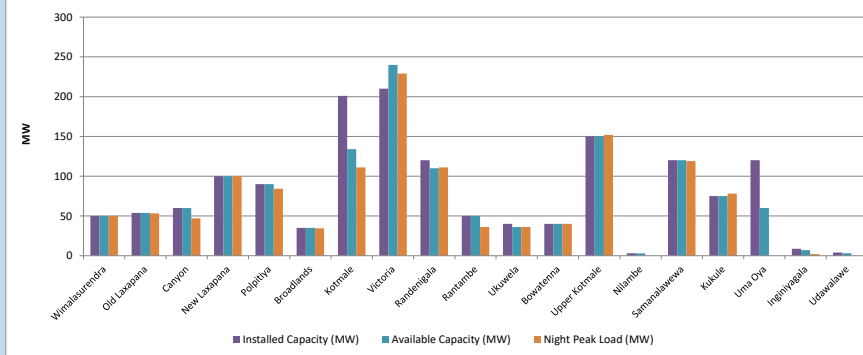


Available Generation is estimated based on plant availability at 6.00am on

November 12, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 11, 2024



Plant availability is recorded at 6.00 am on

November 12, 2024

1.8 Summary of Major Plant performance

November 11, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	392
Old Laxapana	54	54	53	1,015
Canyon	60	60	47	542
New Laxapana	100	100	100	1,364
Polpitiya	90	90	84	1,330
Broadlands	35	35	35	354
Kotmale	201	134	111	1,000
Victoria	210	240	229	2,193
Randenigala	120	110	111	1,126
Rantambe	50	50	36	471
Ukuwela	40	36	36	876
Bowatenna	40	40	40	569
Upper Kotmale	150	150	152	1,307
Nilambe	3	3	0	38
Samanalawewa	120	120	119	600
Kukule	75	75	78	938
Uma Oya	120	60	0	567
Inginigala	9	7	2	98
Udawalawe	4	3	0	60
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	273	6,492
Puttalam Coal III	270	270	272	6,539
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	148	3,535
Sapugaskanda A	68	32	7	590
Sapugaskanda B	72	36	16	1,003
Uthura Janani	26	16	16	366
Barge CEB	60	60	59	1,422
CEB-Hambantota	30	19	2	14
CEB-Mathugama	20	12	0	7
KCCPS-2	155	0	0	0
West Coast	270	270	26	1,876
Sobadhanavi	220	0	0	0
Total	3,602	2,895	2,370	43,343

Note-

Plant availability is the availability recorded at 6 am on

November 12, 2024

1.9 Contribution to the Night Peak in MW

November 11, 2024

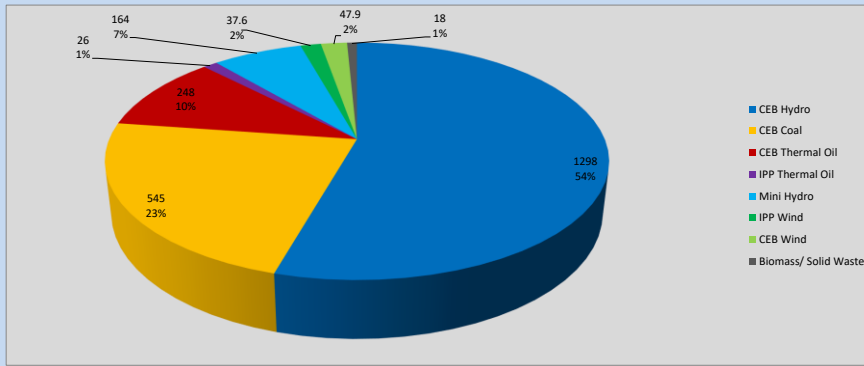


Table 05

CEB Hydro	1298	MW
CEB Coal	545	MW
CEB Thermal Oil	248	MW
IPP Thermal Oil	26	MW
Mini Hydro (Telemetered)	164	MW
IPP Wind	37.6	MW
CEB Wind	47.9	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

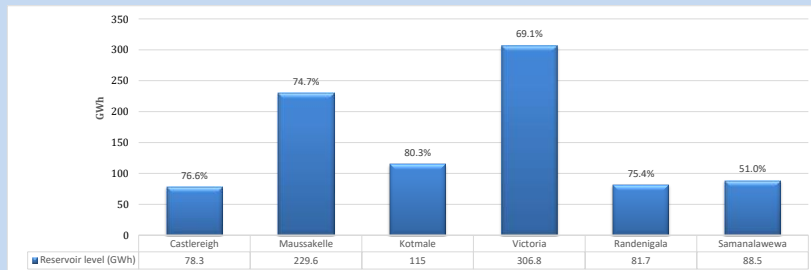
Table 06

Night Peak*	2,385	MW
Day Peak Maximum Demand	2,295	MW
Day Peak Minimum Demand	1,530	MW
Off Peak Minimum Demand	1,316	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 November 12, 2024



Total Reservoir Level
% of Total capacity

899.9 GWh
70.4%

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

November 11, 2024

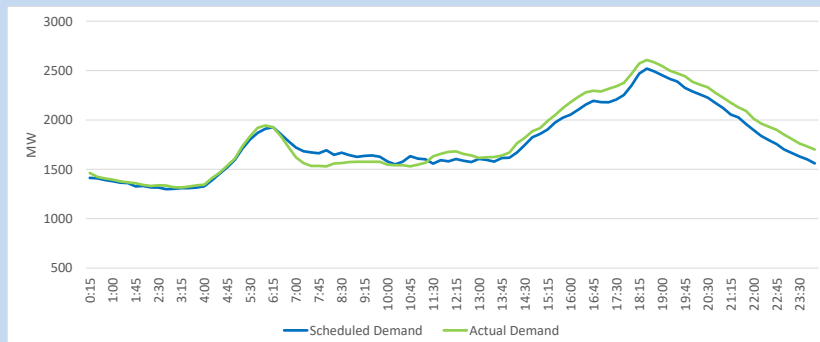
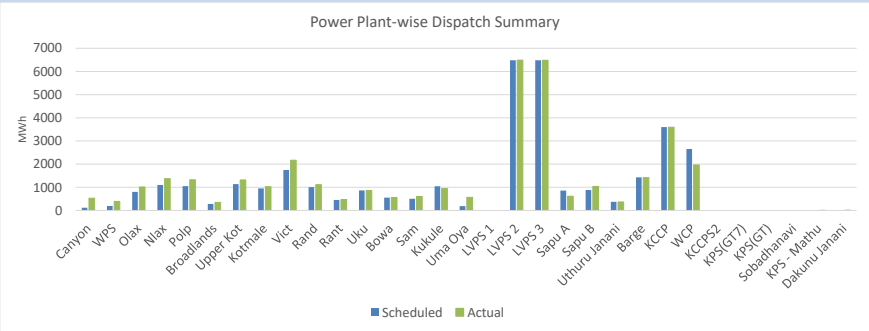


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,988	14,636	2,647
CEB Coal	12,960	12,969	9
CEB Thermal Oil	7,141	7,056	(85)
IPP Thermal Oil	2,656	1,962	(694)
NCRE (Telemetered)	7,643	6,764	(879)
Total	42,389	43,387	998

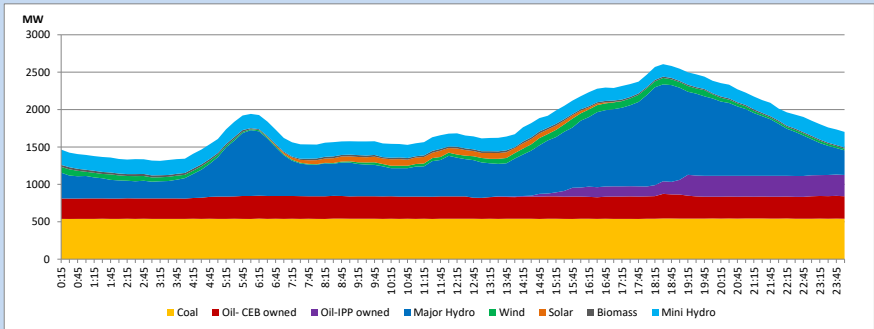
1.12 Power Plant-wise Dispatch Summary

November 11, 2024



1.13 Daily Load Curve

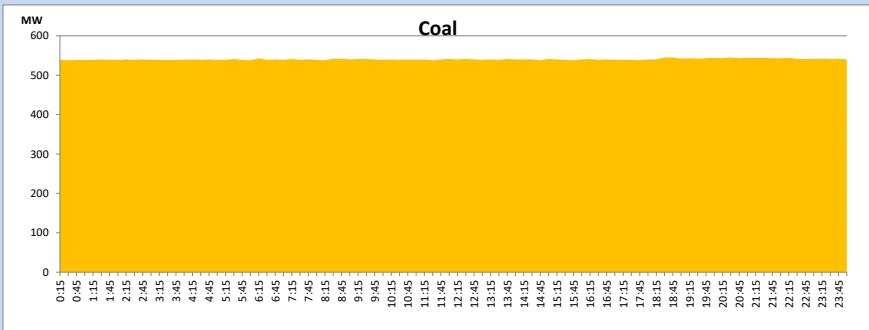
November 11, 2024



Solar and wind data is based on Telemetered Power Stations only

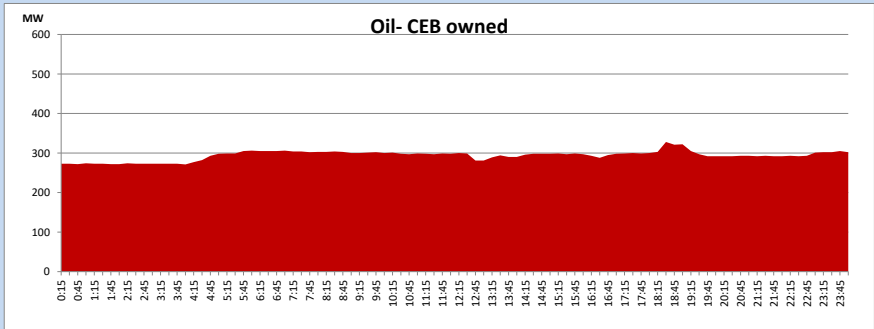
Coal Generation during

November 11, 2024



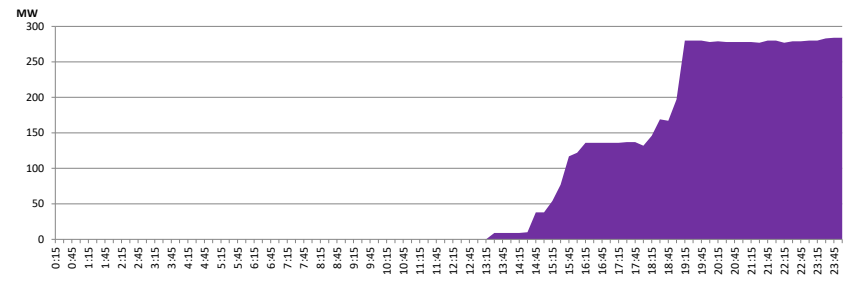
CEB Oil Plant Generation during

November 11, 2024



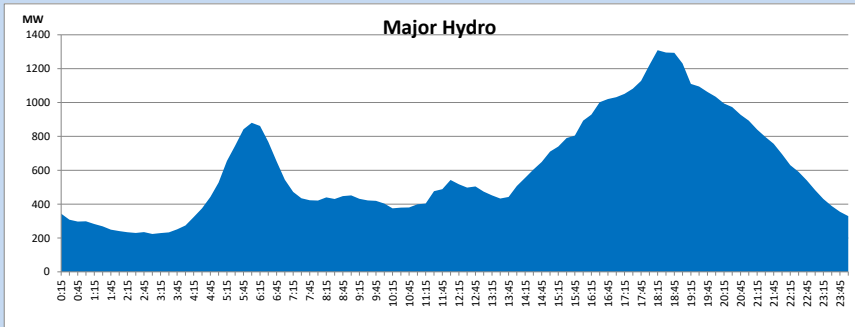
IPP Oil Plant Generation during

November 11, 2024



Major Hydro Generation during

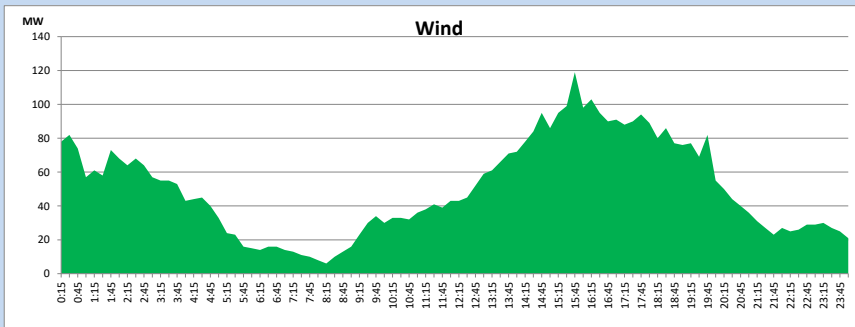
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Wind Generation during

November 11, 2024

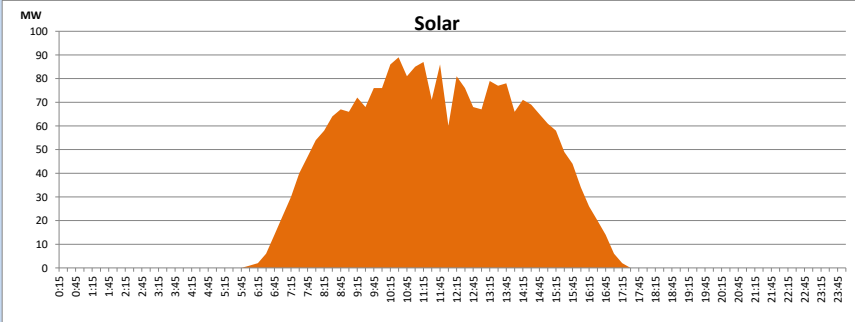
Based on Telemetered Power Stations only



Solar Generation during

November 11, 2024

Based on Telemetered Power Stations only

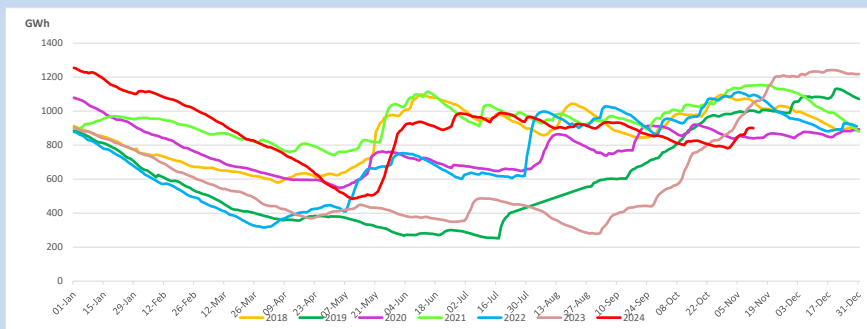


1.14 Major Incidents reported during the day

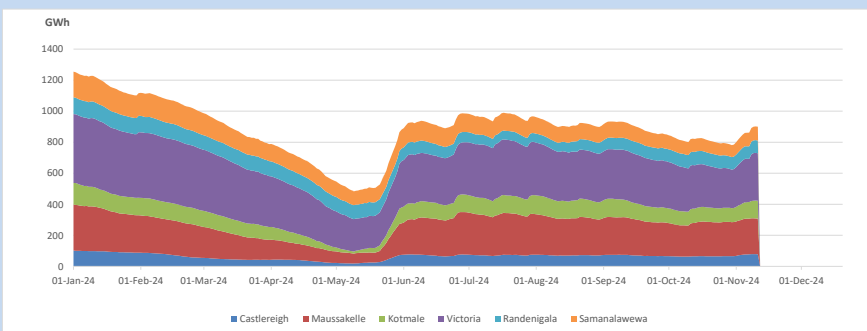
November 11, 2024

- 1). Vavuniya 132/33kV T/F 02 tripped at 10:53hrs with the indication of 'Lockout Relay Operated'. The T/F was normalized at 11:50hrs.
- 2). WCP availability was limited to 130 MW from 17:00hrs to 18:00hrs due to a GT 01 fuel system issue.
- 3). New Anuradhapura 220/132/33kV T/F 01 was manually switched-off from 220kV and 132kV ends at 19:34hrs on the request of O&M, due to a 220kV VT failure (The T/F was kept off from 33kV end after being tripped at 07:14hrs on 04.11.2024).

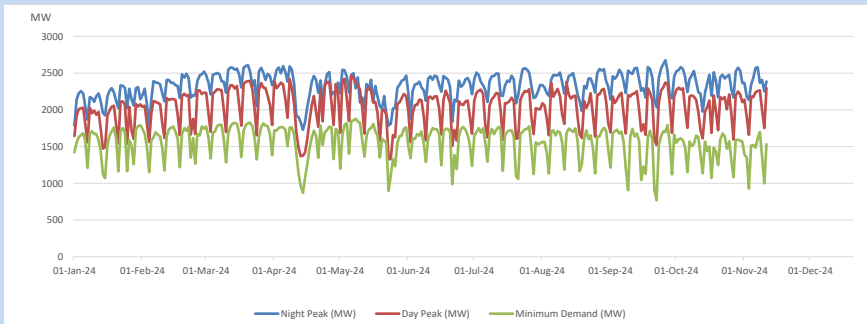
2. Comparison of Total Reservoir Storage Levels with Past Years



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

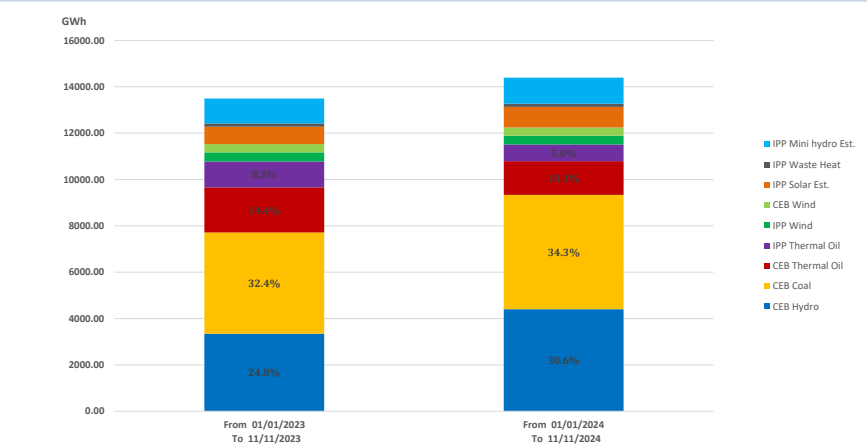


4. Variation of Demand during the current year



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 11/11/2023 13492 GWh
From 01/01/2024 To 11/11/2024 14396 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