

Generation and Reservoirs Statistics

November 18, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 18, 2024

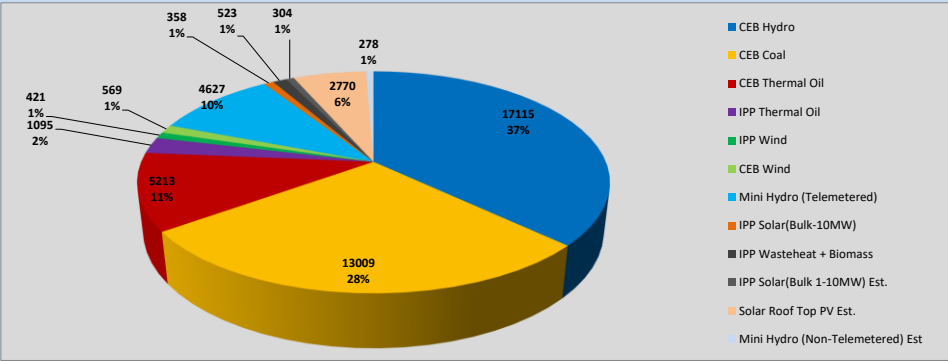


Table 01

	Generation (MWh)
CEB Hydro	17,115
CEB Coal	13,009
CEB Thermal Oil	5,213
IPP Thermal Oil	1,095
IPP Wind	421
CEB Wind	569
Mini Hydro (Telemetered)	4,627
IPP Solar (Bulk)	358
IPP Waste heat + Biomass	523
Total Generation (Excluding estimated figures)	42,930
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	278
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	46,282
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	271	34.66%
CEB Coal	221	28.28%
CEB Thermal Oil	71	9.13%
IPP Thermal	38	4.83%
IPP Wind	5	0.62%
CEB Wind	7	0.84%
Mini Hydro *	100	12.78%
IPP Solar *	61	7.84%
IPP Waste heat + BMP	8	1.01%
Total	782	

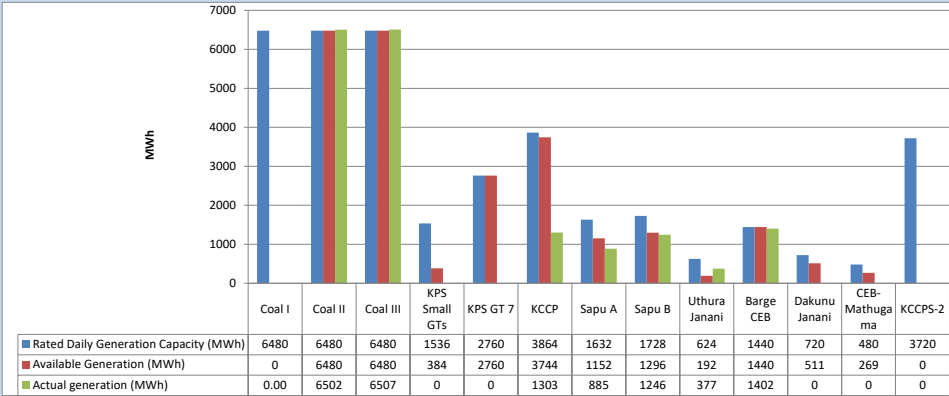
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,511	30.71%
CEB Coal	5,019	34.16%
CEB Thermal Oil	1,470	10.01%
IPP Thermal	735	5.01%
IPP Wind	381	2.60%
CEB Wind	354	2.41%
Mini Hydro *	1,169	7.96%
IPP Solar *	913	6.22%
IPP Waste heat	135	0.92%
Total	14,690	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

November 18, 2024

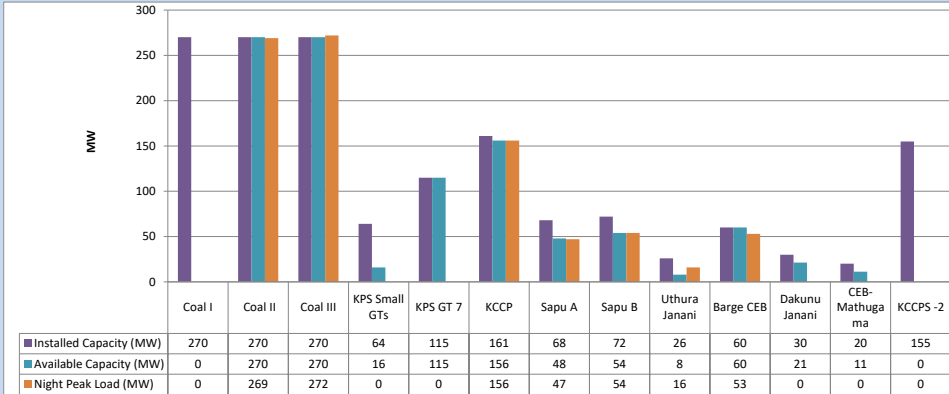


Available Generation is estimated based on plant availability at 6.00am on

November 19, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

November 18, 2024

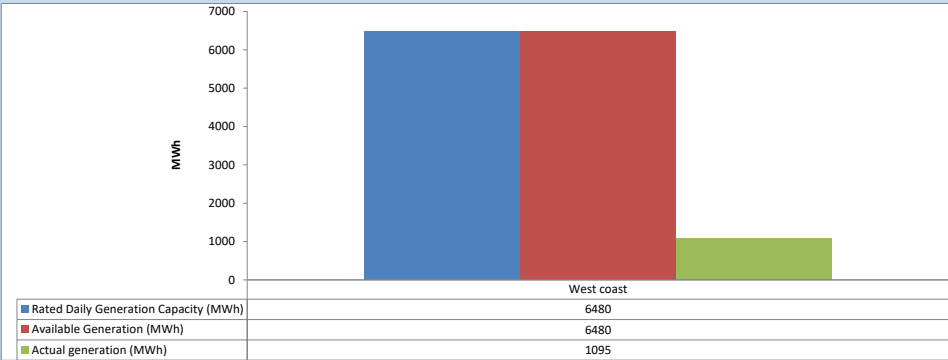


Plant availability is recorded at 6.00 am on

November 19, 2024

1.4 IPP owned Thermal Plant Dispatch

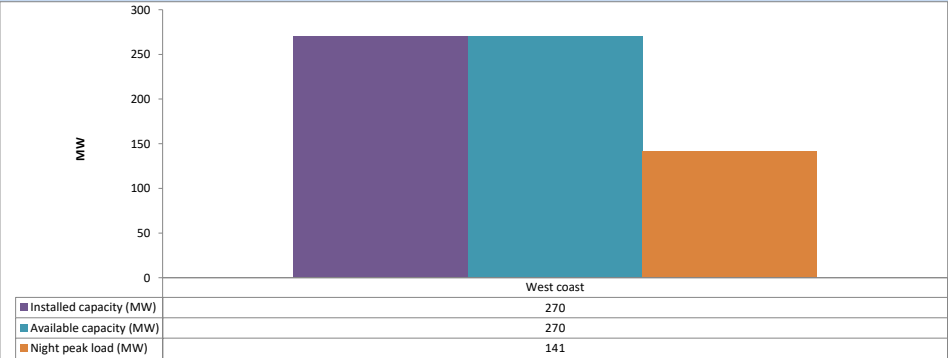
November 18, 2024



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

November 19, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

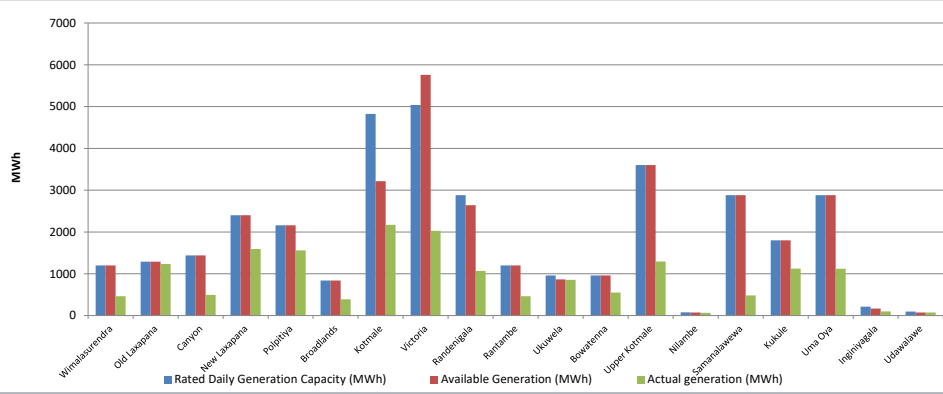


Plant availability is recorded at 6.00 am on

November 19, 2024

1.6 Major Hydro Plant Dispatch

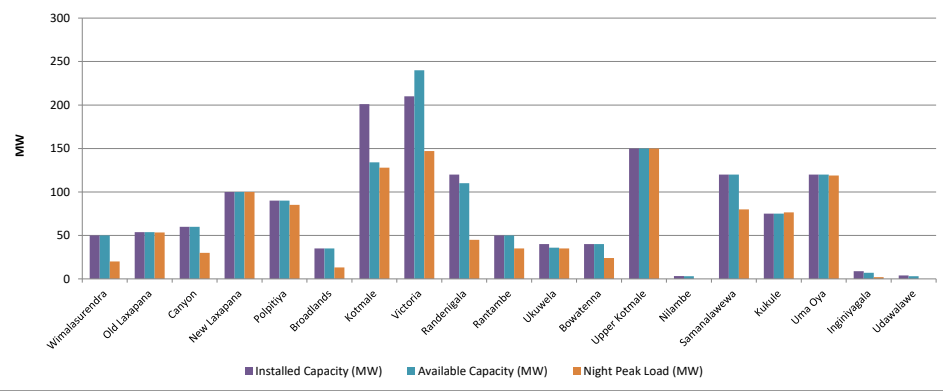
November 18, 2024



Available Generation is estimated based on plant availability at 6.00am on November 19, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 18, 2024



Plant availability is recorded at 6.00 am on November 19, 2024

1.8 Summary of Major Plant performance

November 18, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	464
Old Laxapana	54	54	53	1,232
Canyon	60	60	30	492
New Laxapana	100	100	100	1,592
Polpitiya	90	90	85	1,560
Broadlands	35	35	13	387
Kotmale	201	134	128	2,170
Victoria	210	240	147	2,028
Randenigala	120	110	45	1,067
Rantambe	50	50	35	463
Ukuwela	40	36	35	854
Bowatenna	40	40	24	549
Upper Kotmale	150	150	150	1,292
Nilambe	3	3	0	64
Samanalawewa	120	120	80	484
Kukule	75	75	77	1,125
Uma Oya	120	120	119	1,120
Inginipagala	9	7	2	99
Udawalawe	4	3	0	74
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,502
Puttalam Coal III	270	270	272	6,507
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	156	1,303
Sapugaskanda A	68	48	47	885
Sapugaskanda B	72	54	54	1,246
Uthura Janani	26	8	16	377
Barge CEB	60	60	53	1,402
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	11	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	141	1,095
Sobadhanavi	220	0	0	0
Total	3,602	2,988	2,399	42,931

Note- Plant availability is the availability recorded at 6 am on November 19, 2024

1.9 Contribution to the Night Peak in MW

November 18, 2024

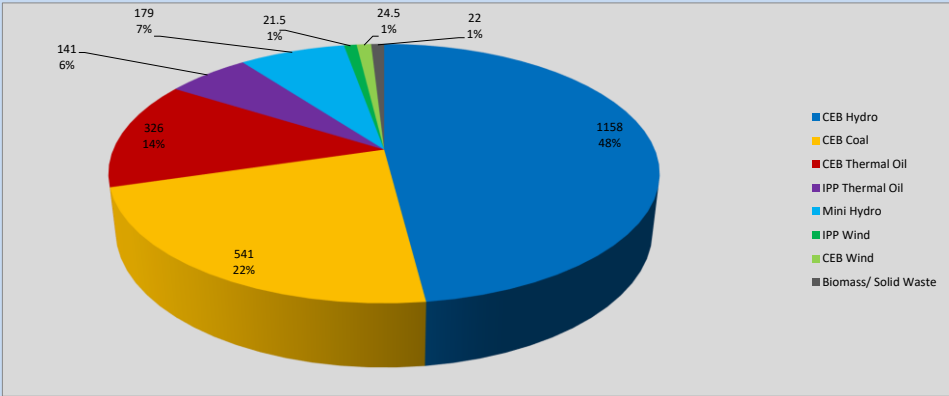


Table 05

CEB Hydro	1158 MW
CEB Coal	541 MW
CEB Thermal Oil	326 MW
IPP Thermal Oil	141 MW
Mini Hydro (Telemetered)	179 MW
IPP Wind	21.5 MW
CEB Wind	24.5 MW
Biomass/ Solid Waste	22 MW

Recorded Peak Demand Data

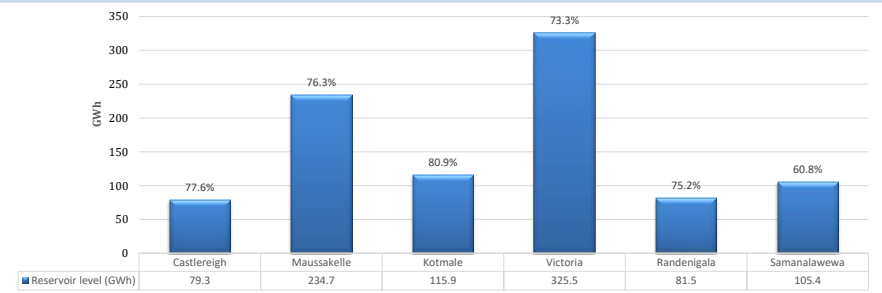
Table 06

Night Peak*	2,413 MW
Day Peak Maximum Demand	2,290 MW
Day Peak Minimum Demand	1,559 MW
Off Peak Minimum Demand	1,297 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 19, 2024



Total Reservoir Level 942.3 GWh
% of Total capacity 73.7%

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

November 18, 2024

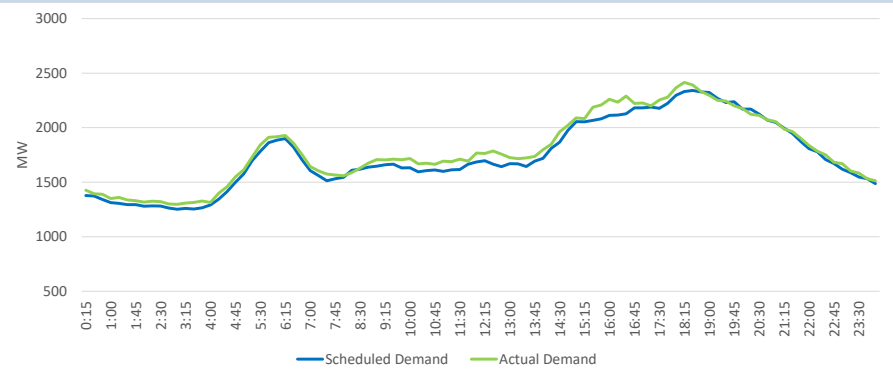
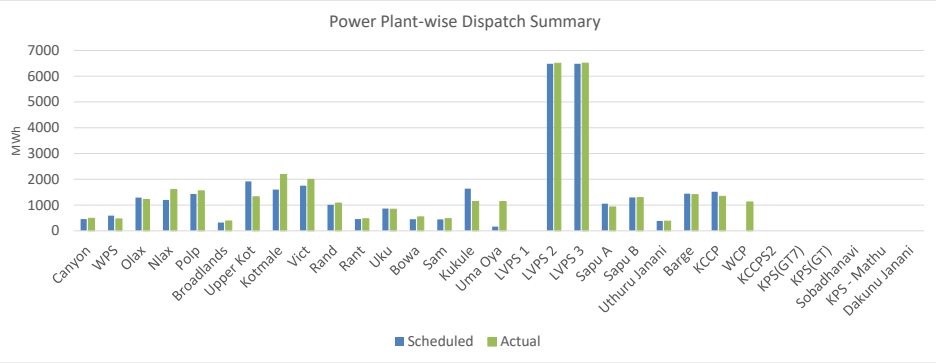


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,581	16,888	1,306
CEB Coal	12,960	13,001	41
CEB Thermal Oil	5,690	5,336	(354)
IPP Thermal Oil	-	1,118	1,118
NCRE (Telemetered)	7,562	6,540	(1,022)
Total	41,794	42,883	1,089

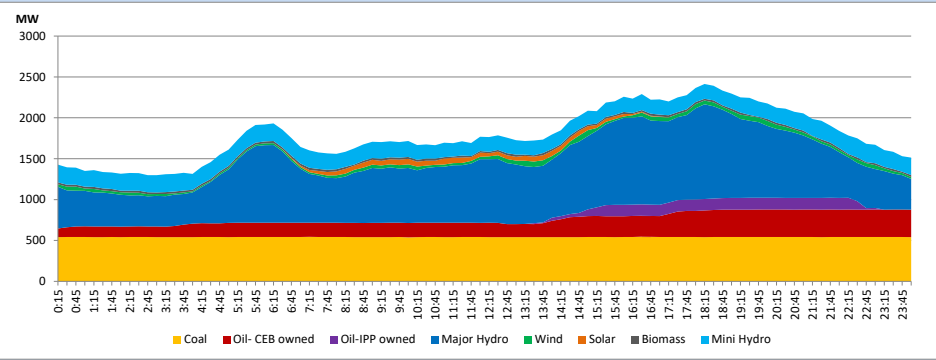
1.12 Power Plant-wise Dispatch Summary

November 18, 2024



1.13 Daily Load Curve

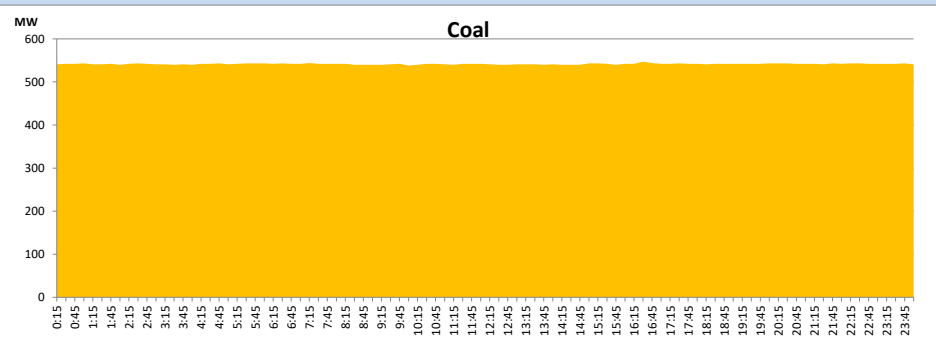
November 18, 2024



Solar and wind data is based on Telemetered Power Stations only

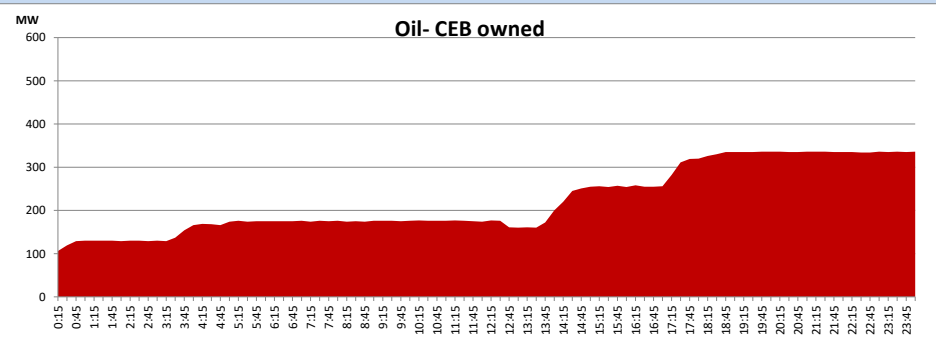
Coal Generation during

November 18, 2024

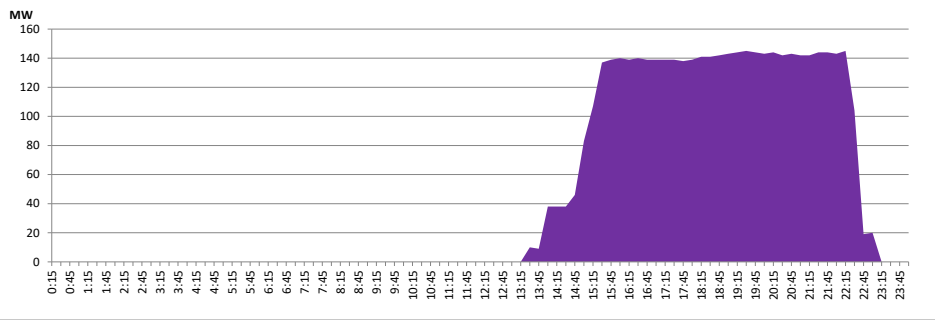


CEB Oil Plant Generation during

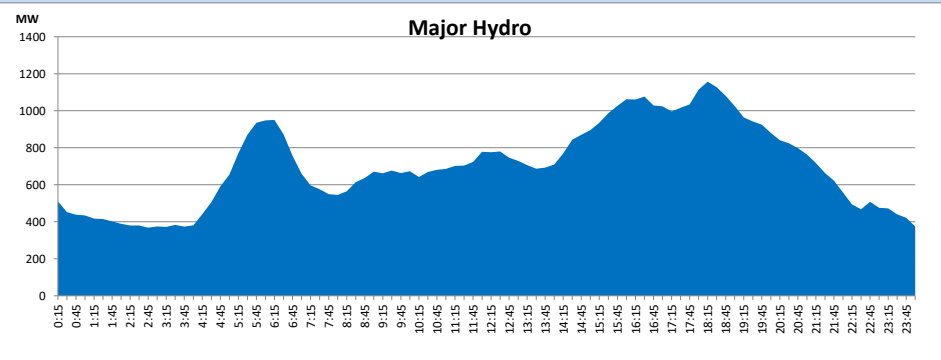
November 18, 2024



IPP Oil Plant Generation during November 18, 2024

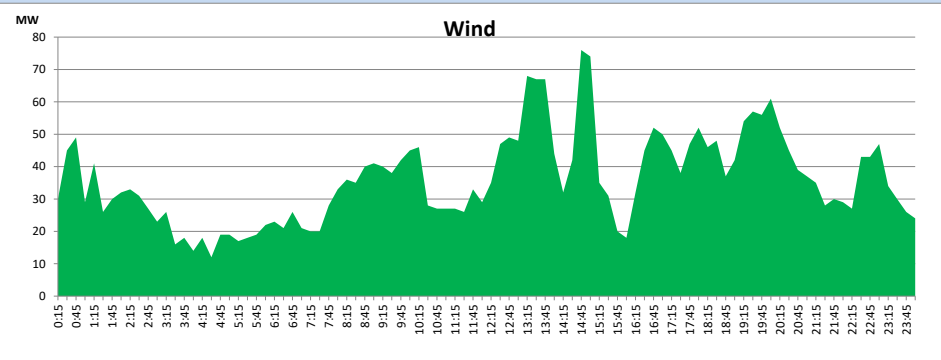


Major Hydro Generation during November 18, 2024



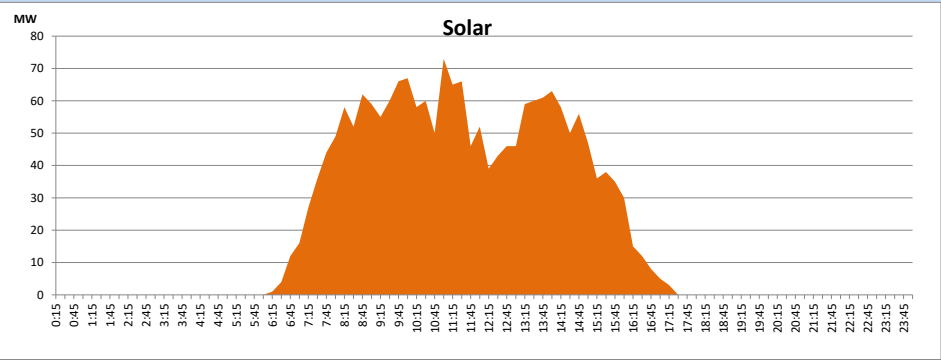
Wind Generation during November 18, 2024

Based on Telemetered Power Stations only



Solar Generation during November 18, 2024

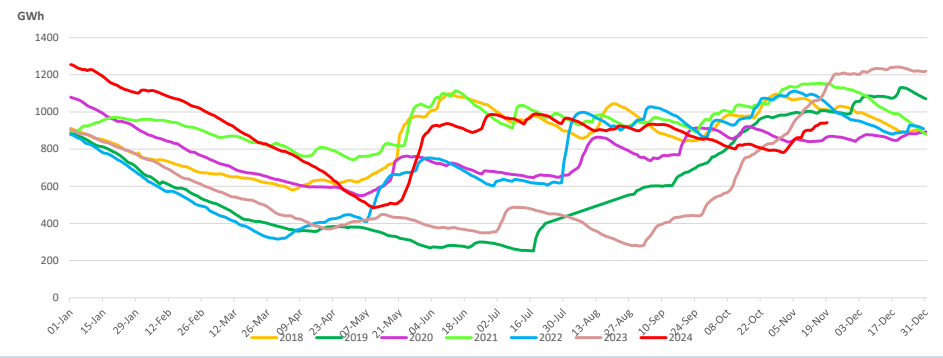
Based on Telemetered Power Stations only



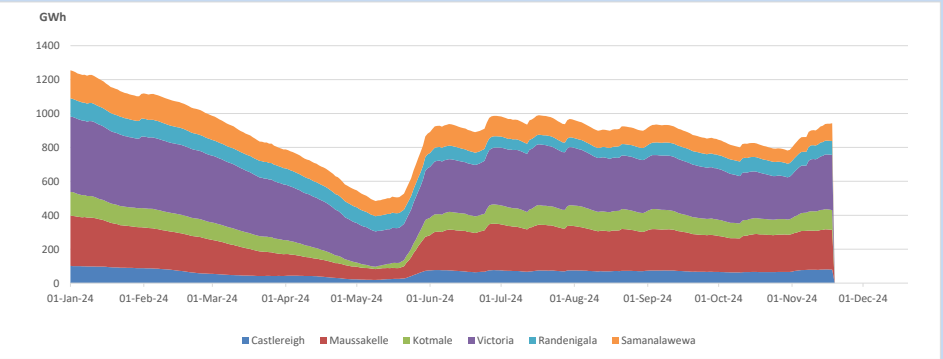
1.14 Major Incidents reported during the day November 18, 2024

- 1). New Anuradhapura - Trinco 132kV cct tripped and A/R from both ends at 12:10hrs, due to the operation of distance protection.
- 2). Kelanitissa GSS 132/33kV T/F 01 tripped at 12:58hrs, with an indication of OLTC oil level trip. Kelanitissa GSS 132/33kV T/F 01 energized at 17:15hrs.
- 3). Katunayake - Bolawatte - New Chilaw 132kV cct tripped and A/R from all ends at 21:14hrs, due to the operation of distance protection.
- 4). Seethawaka GSS 132/33kV T/F 03 tripped at 00:35 hrs (19.11.2024), with an indication of OLTC oil level low. Seethawaka GSS 132/33kV T/F 03 is yet to be energized.

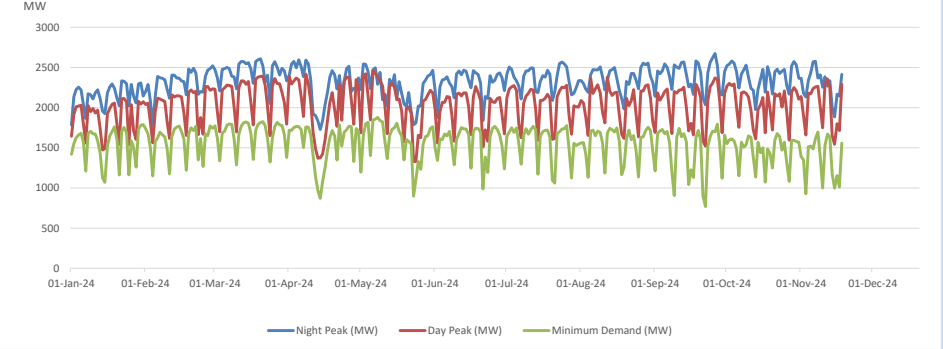
2. Comparison of Total Reservoir Storage Levels with Past Years



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

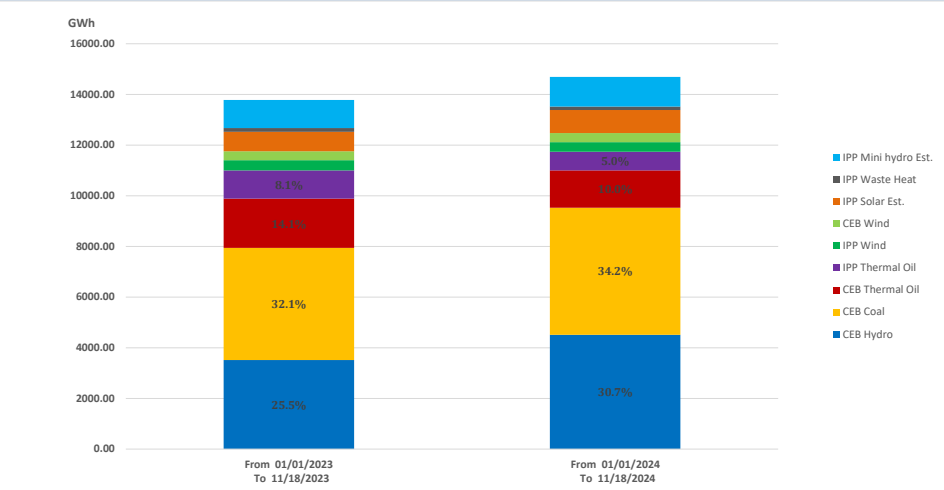


4. Variation of Demand during the current year



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 11/18/2023 13779 GWh
From 01/01/2024 To 11/18/2024 14690 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