

Generation and Reservoirs Statistics

November 5, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

November 5, 2024

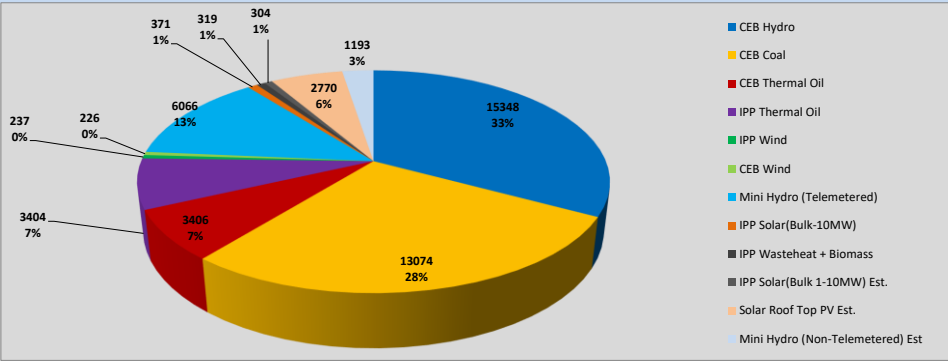


Table 01

	Generation (MWh)
CEB Hydro	15,348
CEB Coal	13,074
CEB Thermal Oil	3,406
IPP Thermal Oil	3,404
IPP Wind	237
CEB Wind	226
Mini Hydro (Telemetered)	6,066
IPP Solar (Bulk)	371
IPP Waste heat + Biomass	319
Total Generation (Excluding estimated figures)	42,451
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1,193
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,770
Total Generation (Including estimated figures)	46,718
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	76	35.10%
CEB Coal	62	28.96%
CEB Thermal Oil	18	8.14%
IPP Thermal	12	5.60%
IPP Wind	1	0.27%
CEB Wind	0	0.23%
Mini Hydro *	28	13.08%
IPP Solar *	17	7.86%
IPP Waste heat + BMP	2	0.77%
Total	216	

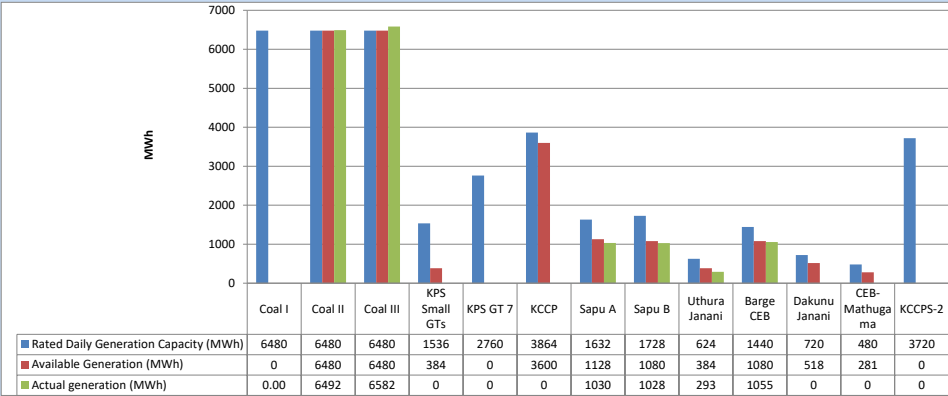
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,316	30.56%
CEB Coal	4,860	34.41%
CEB Thermal Oil	1,417	10.03%
IPP Thermal	710	5.03%
IPP Wind	377	2.67%
CEB Wind	348	2.47%
Mini Hydro *	1,098	7.77%
IPP Solar *	869	6.15%
IPP Waste heat	129	0.91%
Total	14,123	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

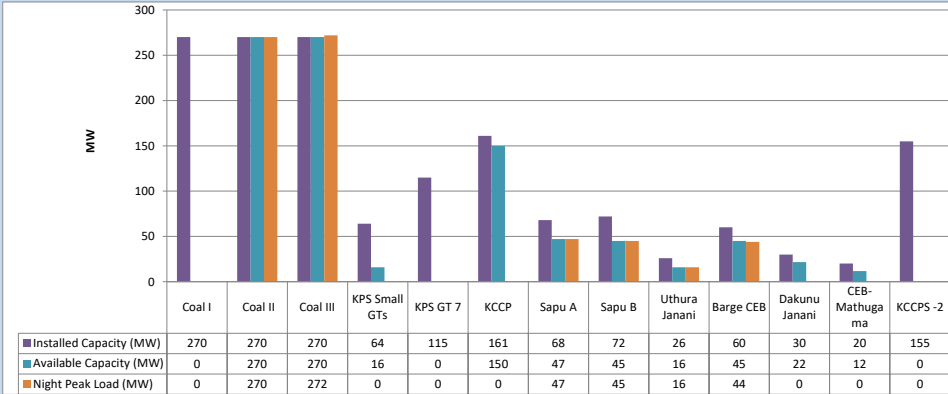
November 5, 2024



Available Generation is estimated based on plant availability at 6.00am on November 6, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

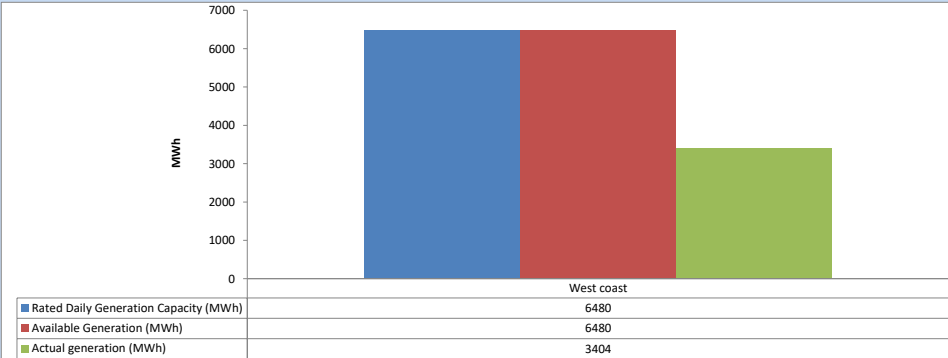
November 5, 2024



Plant availability is recorded at 6.00 am on November 6, 2024

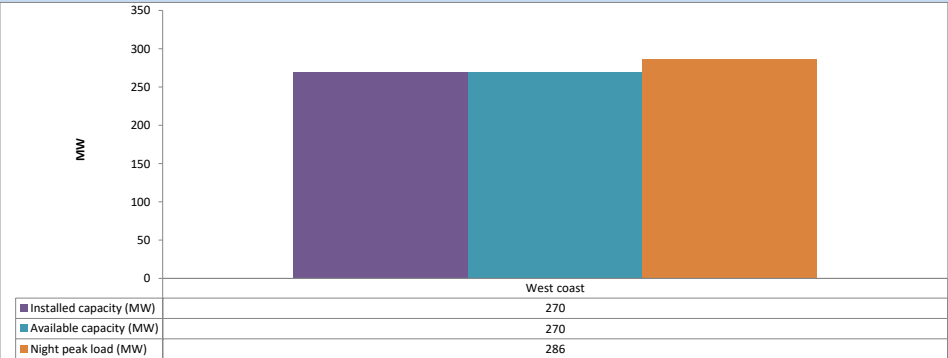
1.4 IPP owned Thermal Plant Dispatch

November 5, 2024



Available Generation is estimated based on plant availability at 6.00am on November 6, 2024

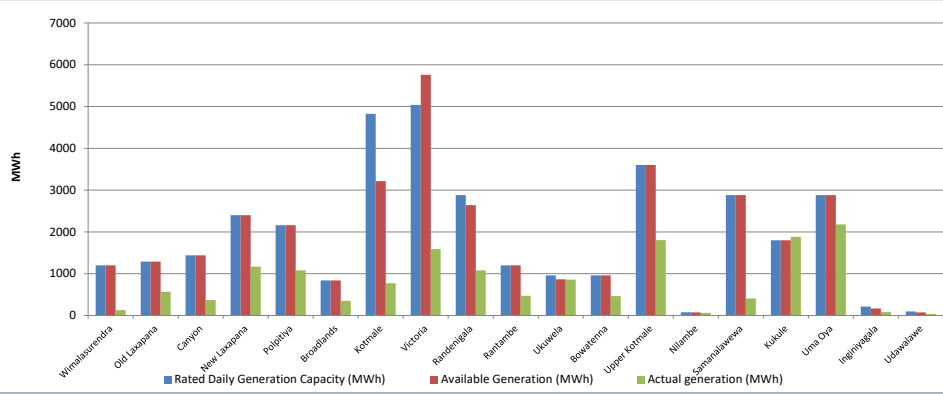
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on November 6, 2024

1.6 Major Hydro Plant Dispatch

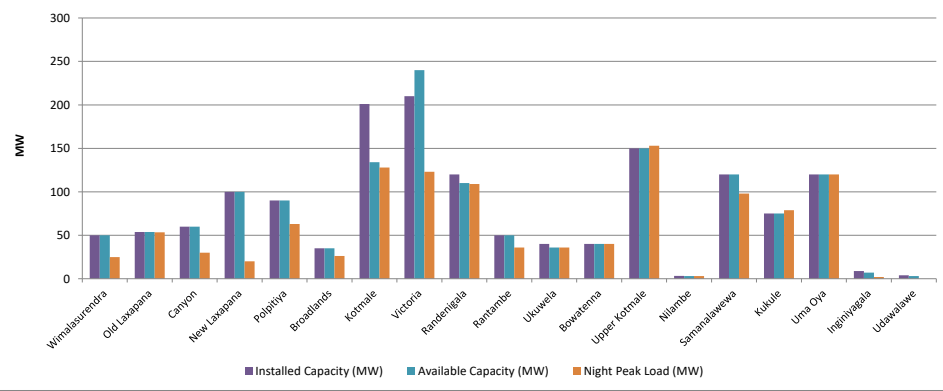
November 5, 2024



Available Generation is estimated based on plant availability at 6.00am on November 6, 2024

1.7 Major Hydro Plant Loading at Night Peak

November 5, 2024



Plant availability is recorded at 6.00 am on November 6, 2024

1.8 Summary of Major Plant performance

November 5, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	25	129
Old Laxapana	54	54	53	569
Canyon	60	60	30	370
New Laxapana	100	100	20	1,169
Polpitiya	90	90	63	1,080
Broadlands	35	35	26	351
Kotmale	201	134	128	770
Victoria	210	240	123	1,588
Randenigala	120	110	109	1,079
Rantambe	50	50	36	471
Ukuwela	40	36	36	858
Bowatenna	40	40	40	463
Upper Kotmale	150	150	153	1,804
Nilambe	3	3	3	63
Samanalawewa	120	120	98	408
Kukule	75	75	79	1,884
Uma Oya	120	120	120	2,177
Inginipigala	9	7	2	82
Udawalawe	4	3	0	35
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,492
Puttalam Coal III	270	270	272	6,582
KPS Small GTs	64	16	0	0
KPS GT 7	115	0	0	0
KCCP	161	150	0	0
Sapugaskanda A	68	47	47	1,030
Sapugaskanda B	72	45	45	1,028
Uthura Janani	26	16	16	293
Barge CEB	60	45	44	1,055
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	12	0	0
KCCPS -2	155	0	0	0
West Coast	270	270	286	3,404
Sobadhanavi	220	0	0	0
Total	3,602	2,851	2,417	42,453

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

1.9 Contribution to the Night Peak in MW

November 5, 2024

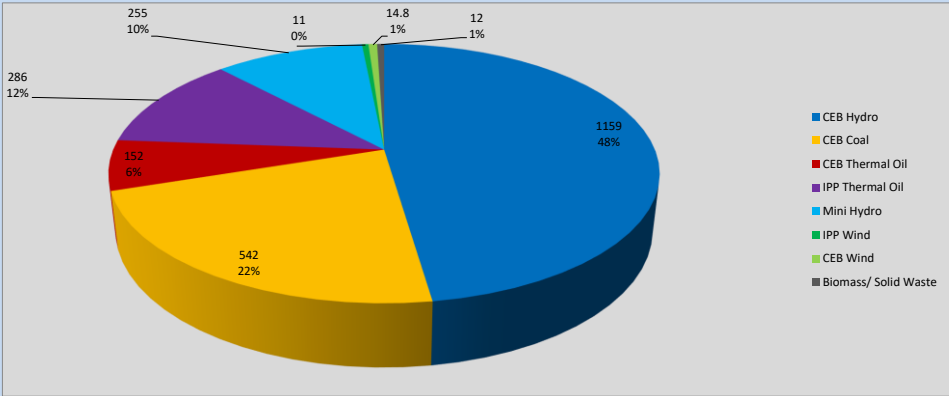


Table 05

CEB Hydro	1159 MW
CEB Coal	542 MW
CEB Thermal Oil	152 MW
IPP Thermal Oil	286 MW
Mini Hydro (Telemetered)	255 MW
IPP Wind	11 MW
CEB Wind	14.8 MW
Biomass/ Solid Waste	12 MW

Recorded Peak Demand Data

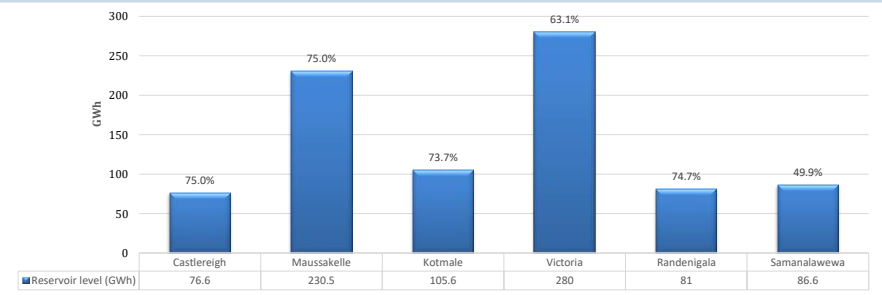
Table 06

Night Peak*	2,431 MW
Day Peak Maximum Demand	2,171 MW
Day Peak Minimum Demand	1,521 MW
Off Peak Minimum Demand	1,362 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 6, 2024



Total Reservoir Level 860.3 GWh
% of Total capacity 67.3%

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

November 5, 2024

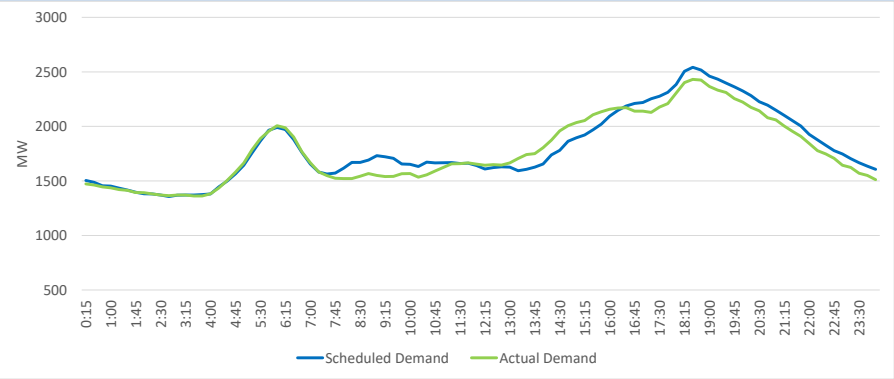
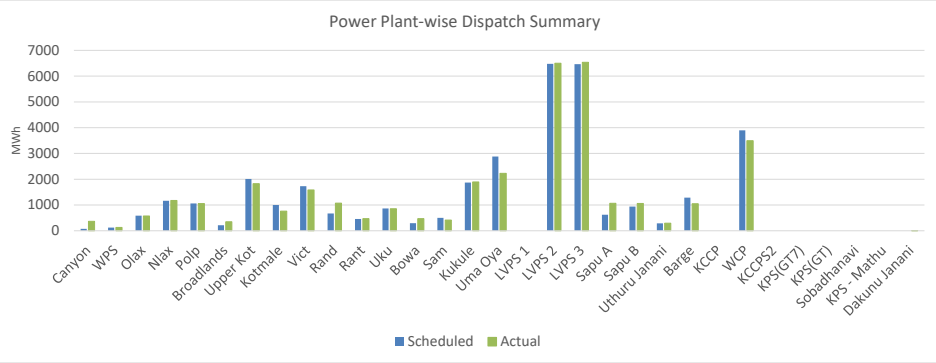


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	15,479	15,217	(262)
CEB Coal	12,943	13,038	95
CEB Thermal Oil	3,134	3,475	340
IPP Thermal Oil	3,898	3,494	(404)
NCRE (Telemetered)	7,836	7,406	(430)
Total	43,289	42,629	(660)

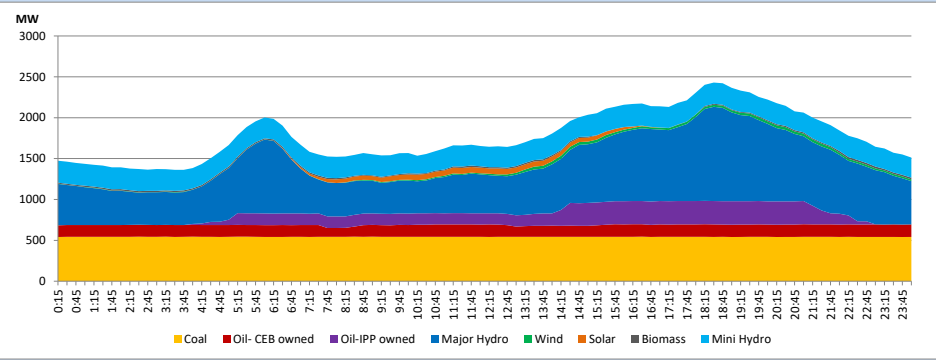
1.12 Power Plant-wise Dispatch Summary

November 5, 2024



1.13 Daily Load Curve

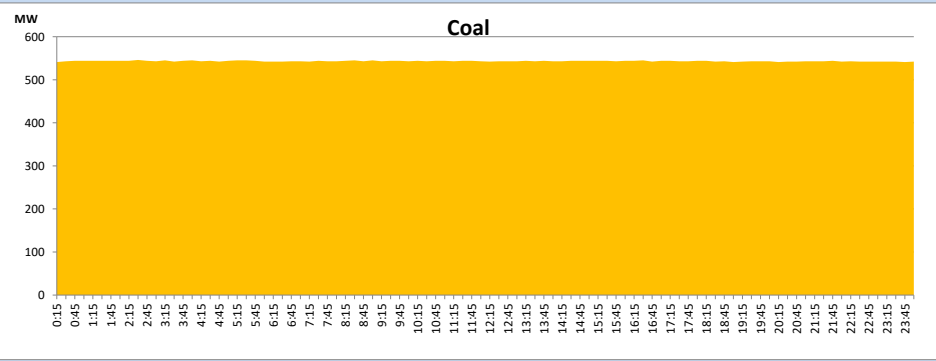
November 5, 2024



Solar and wind data is based on Telemetered Power Stations only

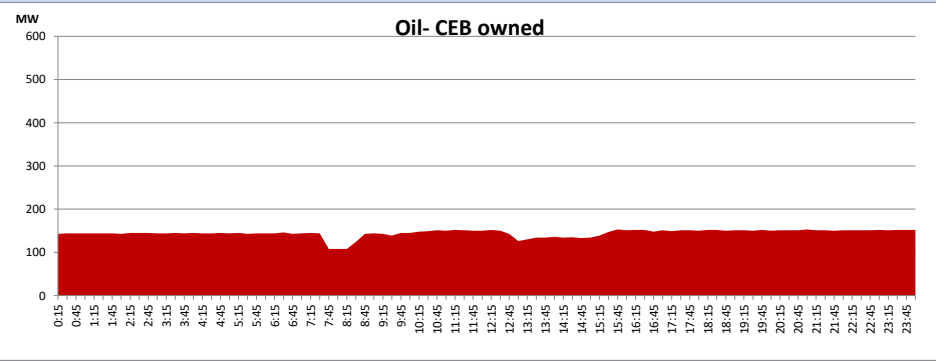
Coal Generation during

November 5, 2024



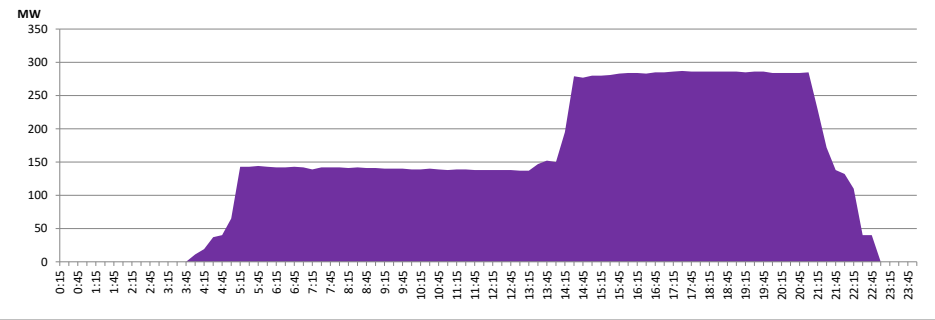
CEB Oil Plant Generation during

November 5, 2024



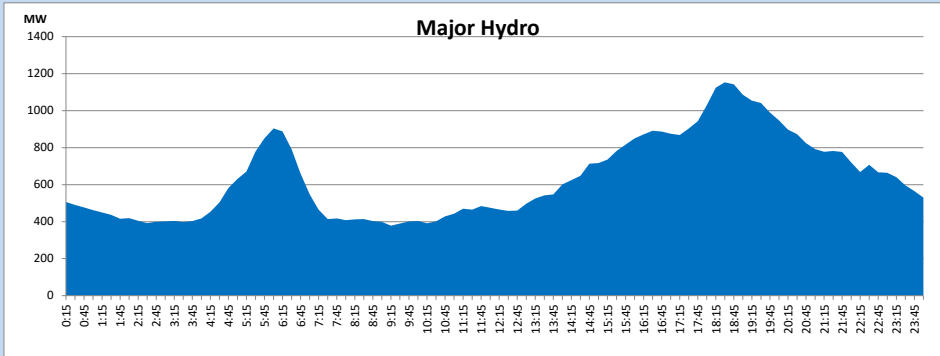
IPP Oil Plant Generation during

November 5, 2024



Major Hydro Generation during

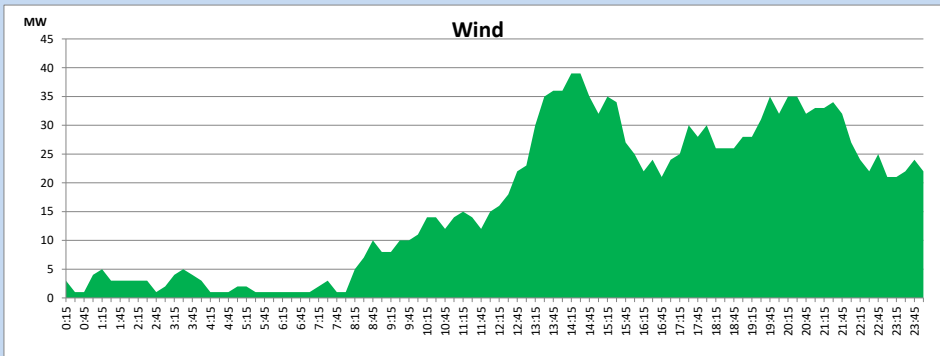
November 5, 2024



Wind Generation during

November 5, 2024

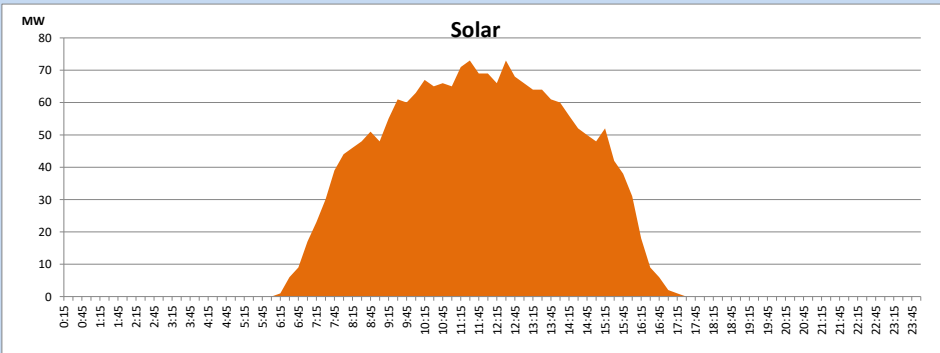
Based on Telemetered Power Stations only



Solar Generation during

November 5, 2024

Based on Telemetered Power Stations only

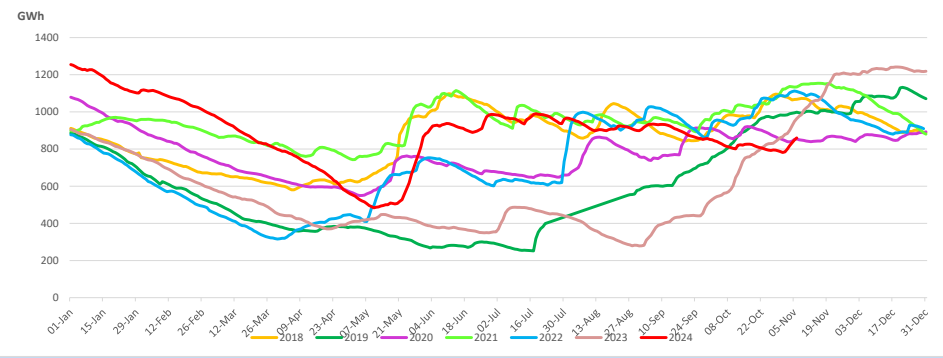


1.14 Major Incidents reported during the day

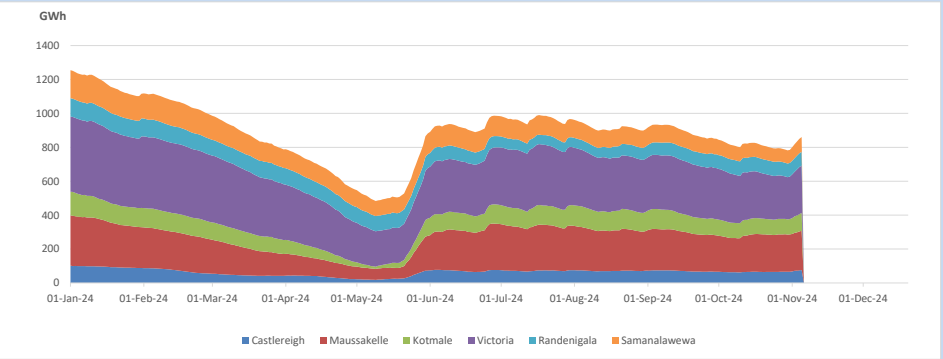
November 5, 2024

- 1) Padukka GSS 220/132/33kV T/F 02 tripped from all ends at 09:08hrs. The T/F is yet to be normalized.
- 2) Biyagama all transformers tripped from 33kV ends at 11:58hrs and subsequently all 33kV feeders tripped due to the operation of arc fault protection. The T/Fs were normalized by 14:07hrs and all affected feeders except feeder 12 were normalized by 14:22hrs. Biyagama feeder 12 is yet to be normalized.
- 3) Polpitiya - Thulhiriya - Athurugiriya 132kV cct. tripped from Polpitiya end and tripped and A/R from all other ends at 14:38hrs and subsequently New Polpitiya - Thulhiriya - Athurugiriya 132kV cct tripped from Thulhiriya end and tripped and A/R from all other ends due to the operation of Distance protection. All tripped ccts were normalized by 15:02hrs.
- 4) Kotugoda - New Kerawalapitiya 220kV cct 02 energized and loaded for the first time at 16:32hrs.
- 5) Uma oya unit 02 made a forced shutdown at 17:08hrs due to governor sump oil level low. The unit resumed generation at 17:46hrs.
- 6) Kukule Ganga pond spilling continues to the present hour.

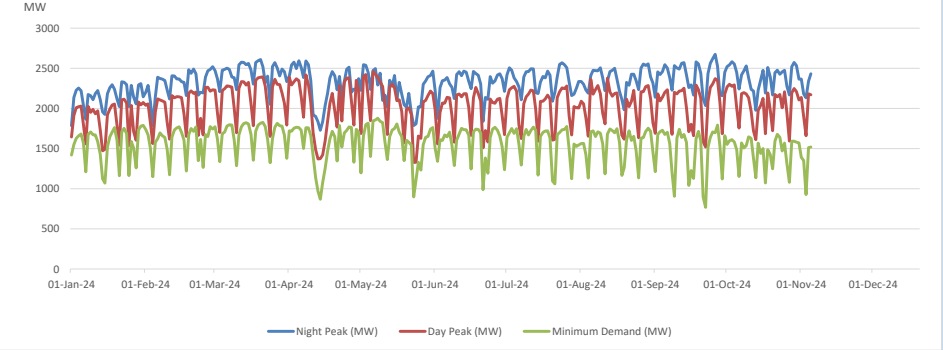
2. Comparison of Total Reservoir Storage Levels with Past Years



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

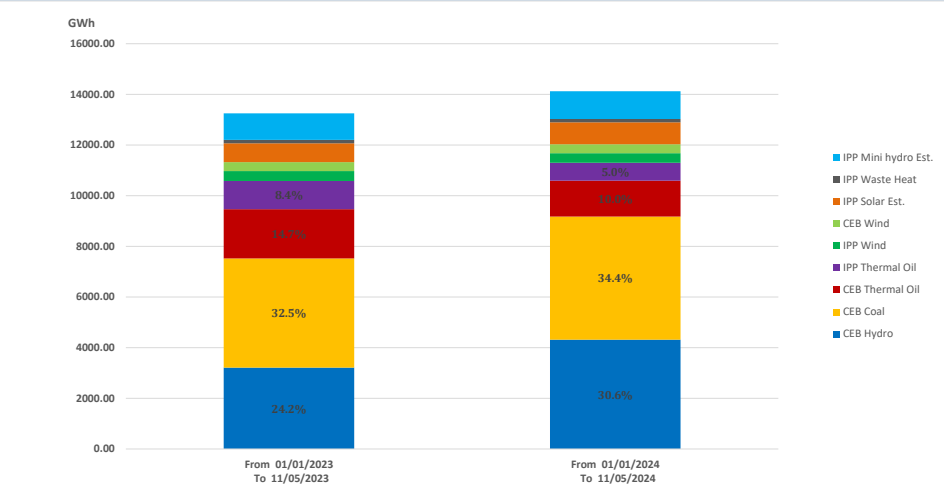


4. Variation of Demand during the current year



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 11/05/2023 13250 GWh
From 01/01/2024 To 11/05/2024 14123 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