

Generation and Reservoirs Statistics

December 4, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 4, 2024

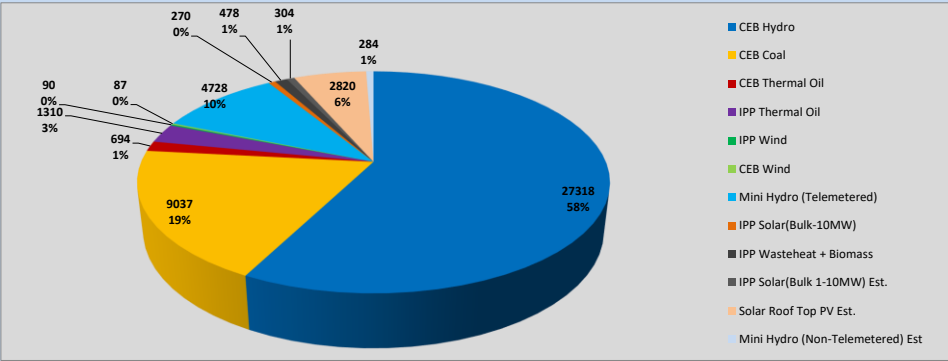


Table 01

	Generation (MWh)
CEB Hydro	27,318
CEB Coal	9,037
CEB Thermal Oil	694
IPP Thermal Oil	1,310
IPP Wind	90
CEB Wind	87
Mini Hydro (Telemetered)	4,728
IPP Solar (Bulk)	270
IPP Waste heat + Biomass	478
Total Generation (Excluding estimated figures)	44,012
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	284
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	47,420
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	93	52.96%
CEB Coal	34	19.41%
CEB Thermal Oil	2	1.05%
IPP Thermal	2	1.37%
IPP Wind	4	2.23%
CEB Wind	3	1.65%
Mini Hydro *	22	12.56%
IPP Solar *	14	7.69%
IPP Waste heat + BMP	2	1.09%
Total	176	

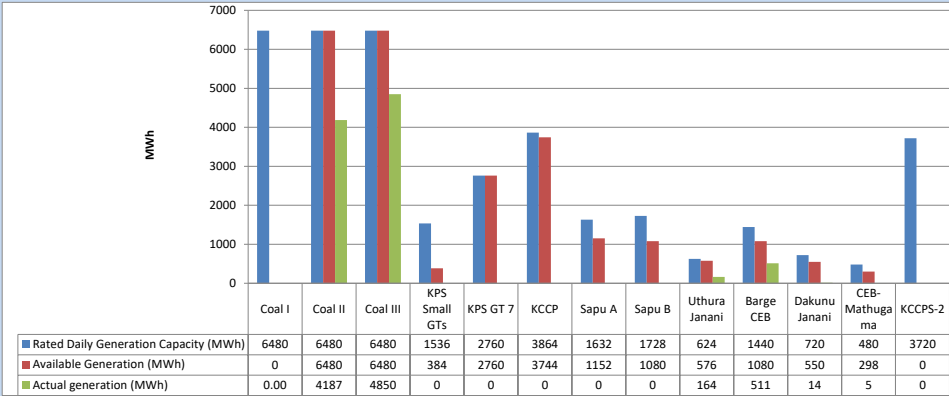
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,832	31.30%
CEB Coal	5,185	33.59%
CEB Thermal Oil	1,514	9.81%
IPP Thermal	738	4.78%
IPP Wind	387	2.51%
CEB Wind	369	2.39%
Mini Hydro *	1,277	8.27%
IPP Solar *	986	6.39%
IPP Waste heat	148	0.96%
Total	15,434	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

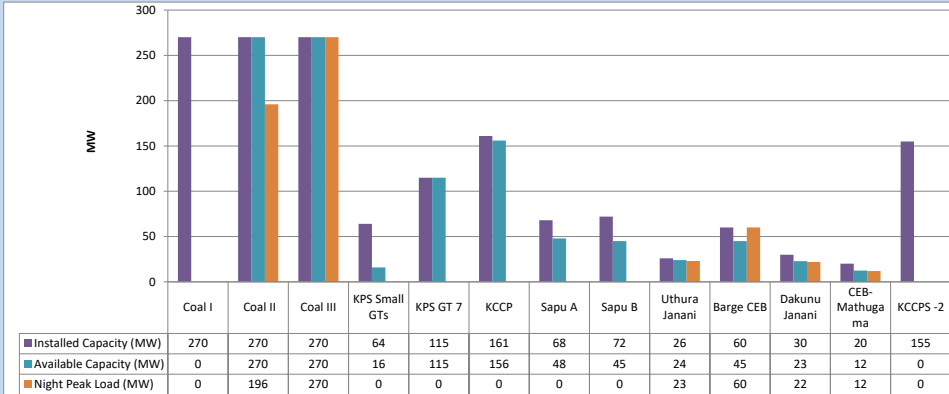
December 4, 2024



Available Generation is estimated based on plant availability at 6.00am on December 5, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

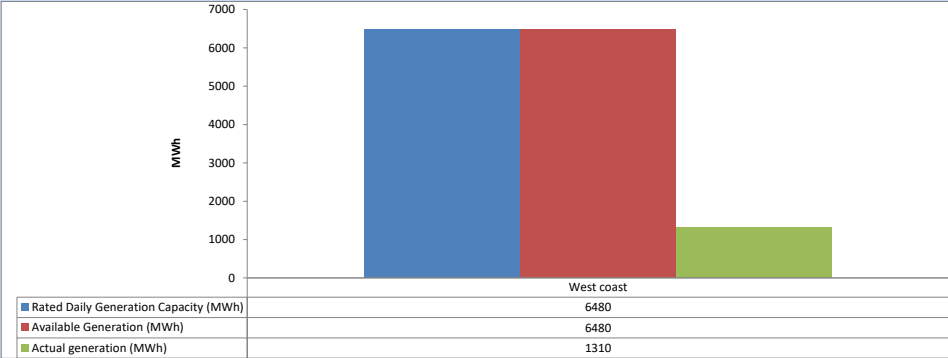
December 4, 2024



Plant availability is recorded at 6.00 am on December 5, 2024

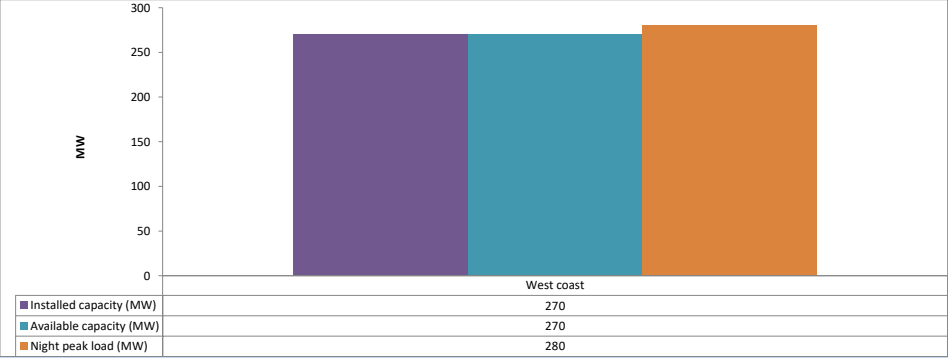
1.4 IPP owned Thermal Plant Dispatch

December 4, 2024



Available Generation is estimated based on plant availability at 6.00am on December 5, 2024

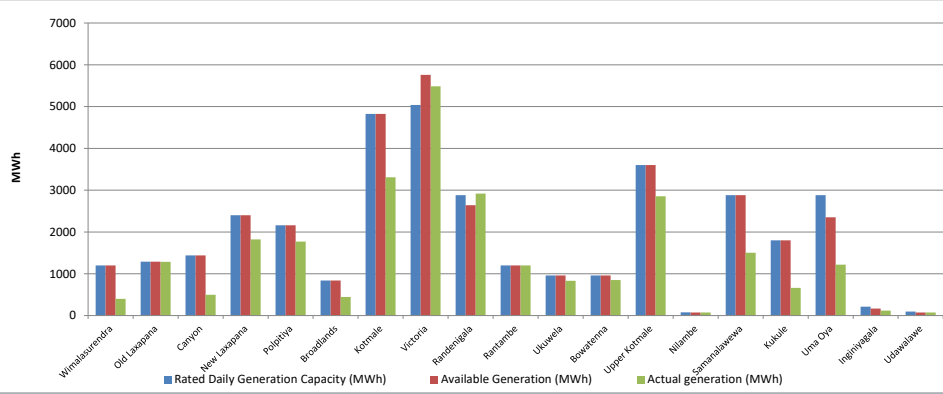
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on December 5, 2024

1.6 Major Hydro Plant Dispatch

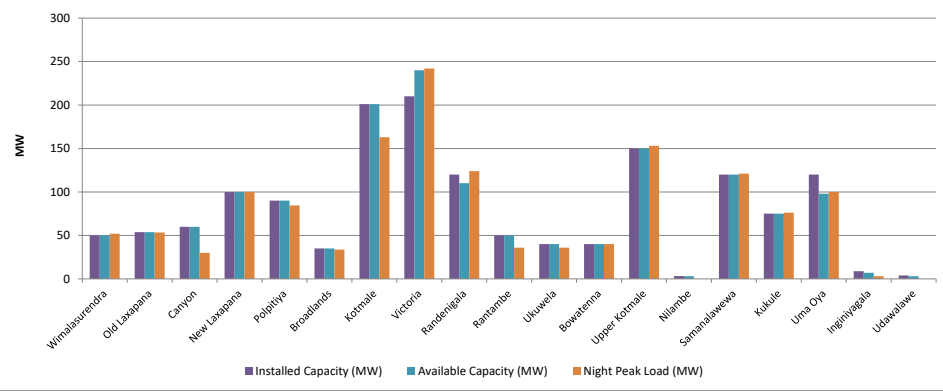
December 4, 2024



Available Generation is estimated based on plant availability at 6.00am on December 5, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 4, 2024



Plant availability is recorded at 6.00 am on December 5, 2024

1.8 Summary of Major Plant performance

December 4, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	398
Old Laxapana	54	54	54	1,284
Canyon	60	60	30	498
New Laxapana	100	100	100	1,824
Polpitiya	90	90	85	1,770
Broadlands	35	35	34	446
Kotmale	201	201	163	3,310
Victoria	210	240	242	5,485
Randenigala	120	110	124	2,920
Rantambe	50	50	36	1,199
Ukuwela	40	40	36	831
Bowatenna	40	40	40	851
Upper Kotmale	150	150	153	2,855
Nilambe	3	3	0	74
Samanalawewa	120	120	121	1,502
Kukule	75	75	76	663
Uma Oya	120	98	100	1,217
Inginipagala	9	7	3	119
Udawalawe	4	3	0	73
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	196	4,187
Puttalam Coal III	270	270	270	4,850
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	45	0	0
Uthura Janani	26	24	23	164
Barge CEB	60	45	60	511
CEB-Hambantota	30	23	22	14
CEB-Mathugama	20	12	12	5
KCCPS -2	155	0	0	0
West Coast	270	270	280	1,310
Sobadhanavi	220	212	0	0
Total	3,602	2,820	2,551	44,013

Note- Plant availability is the availability recorded at 6 am on December 5, 2024

1.9 Contribution to the Night Peak in MW

December 4, 2024

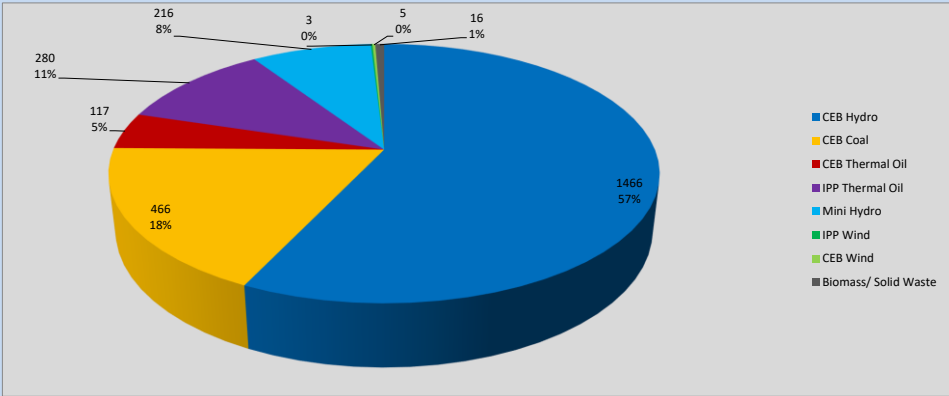


Table 05

CEB Hydro	1466 MW
CEB Coal	466 MW
CEB Thermal Oil	117 MW
IPP Thermal Oil	280 MW
Mini Hydro (Telemetered)	216 MW
IPP Wind	3 MW
CEB Wind	5 MW
Biomass/ Solid Waste	16 MW

Recorded Peak Demand Data

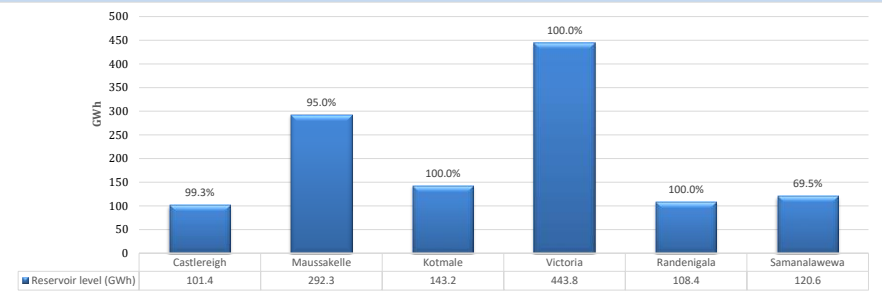
Table 06

Night Peak*	2,569 MW
Day Peak Maximum Demand	2,245 MW
Day Peak Minimum Demand	1,590 MW
Off Peak Minimum Demand	1,395 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 December 5, 2024



Total Reservoir Level 1209.7 GWh
% of Total capacity 94.6%

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

December 4, 2024

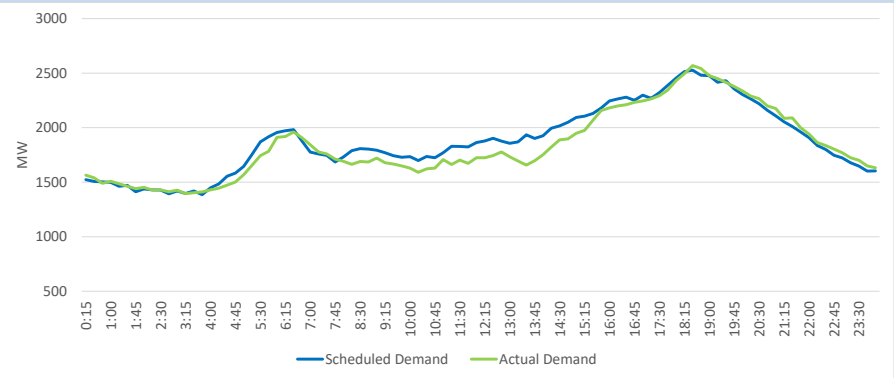
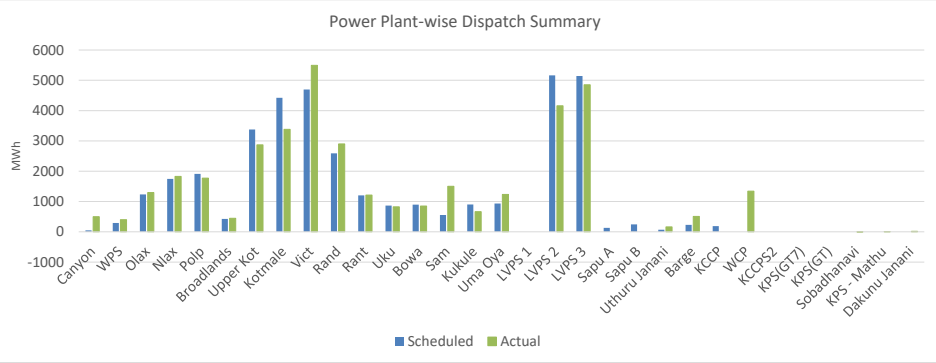


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	26,090	27,318	1,228
CEB Coal	10,302	9,037	(1,265)
CEB Thermal Oil	864	694	(170)
IPP Thermal Oil	-	1,310	1,310
NCRE (excluding non telemetered power plants)	7,789	5,653	(2,136)
Total	45,045	44,012	(1,033)

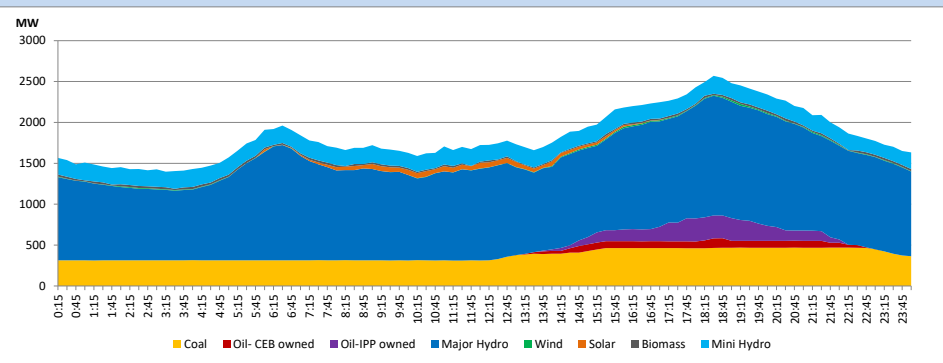
1.12 Power Plant-wise Dispatch Summary

December 4, 2024



1.13 Daily Load Curve

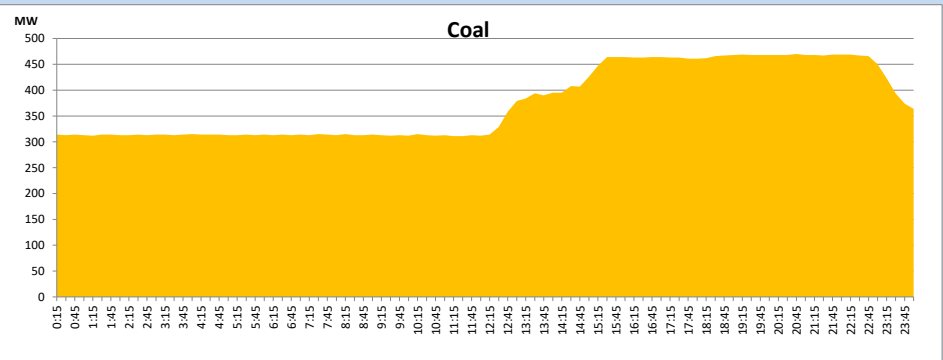
December 4, 2024



Solar and wind data is based on Telemetered Power Stations only

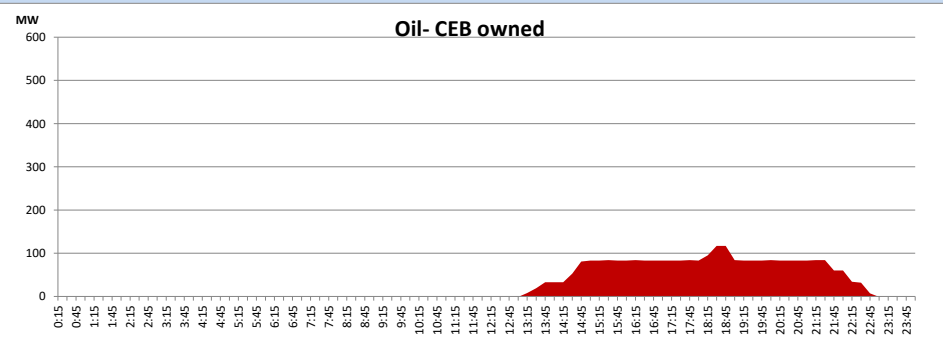
Coal Generation during

December 4, 2024

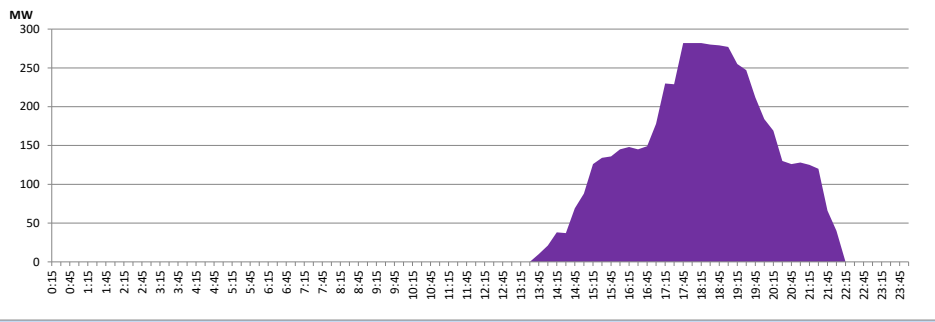


CEB Oil Plant Generation during

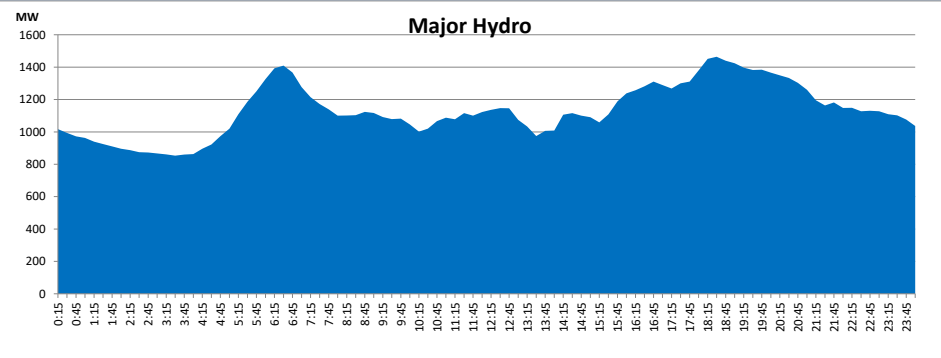
December 4, 2024



IPP Oil Plant Generation during December 4, 2024

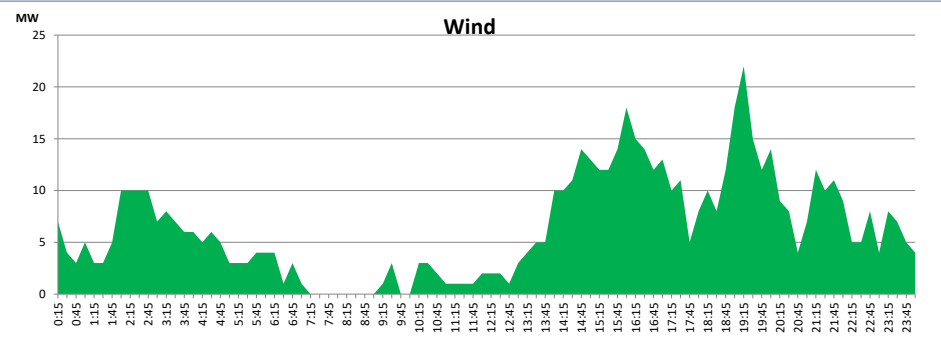


Major Hydro Generation during December 4, 2024



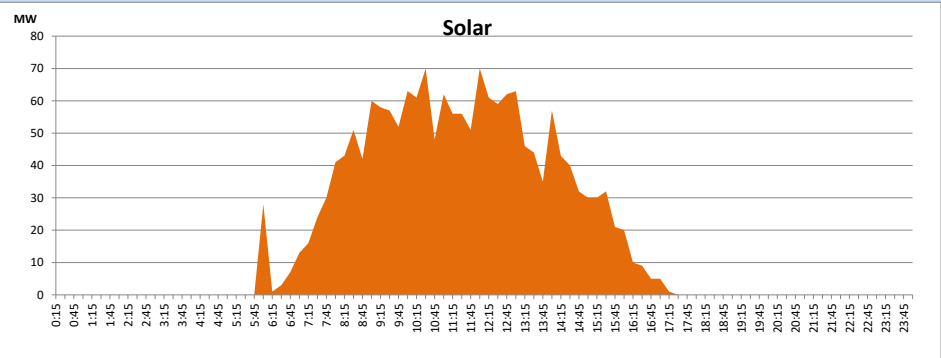
Wind Generation during December 4, 2024

Based on Telemetered Power Stations only



Solar Generation during December 4, 2024

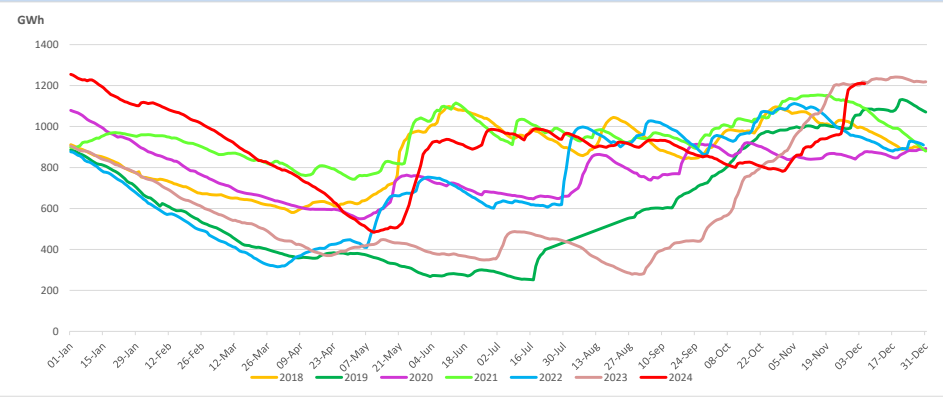
Based on Telemetered Power Stations only



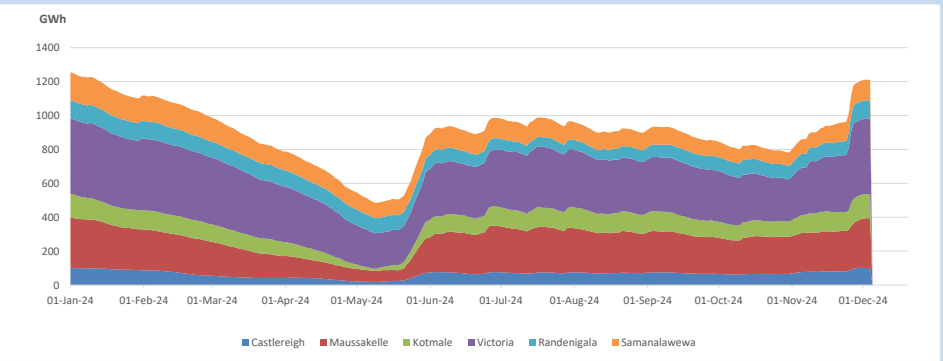
1.14 Major Incidents reported during the day December 4, 2024

- 1) Naula GSS 132/33kV T/F 01 and T/F 02 both tripped only from 33kV end at 22:52hrs with the indication of 'General Trip'. At the same time, Naula 33kV B/S CB tripped with the indication of 'General Trip' causing Naula GSS to be dead. Naula T/F 01 and 02 were normalized at 23:32hrs. All the feeders and 33kV BS CB were normalized by 23:40hrs.
- 2) New Anuradhapura - Trincomalee 132kV cct tripped and A/R from both ends at 05:59hrs (05.12.2024) due to the operation of distance protection.

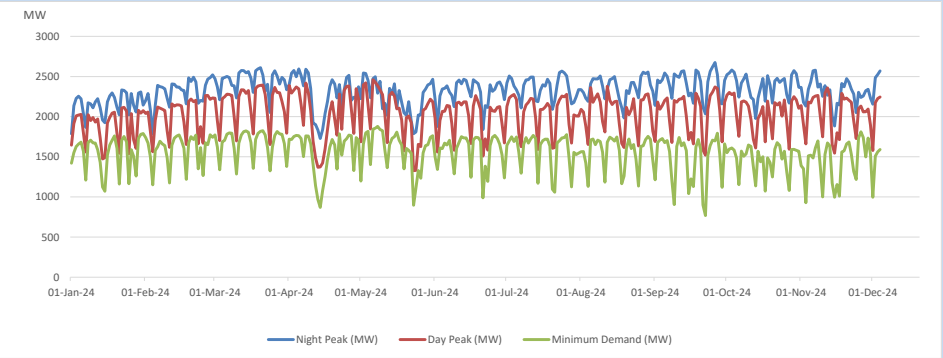
2. Comparison of Total Reservoir Storage Levels with Past Years



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

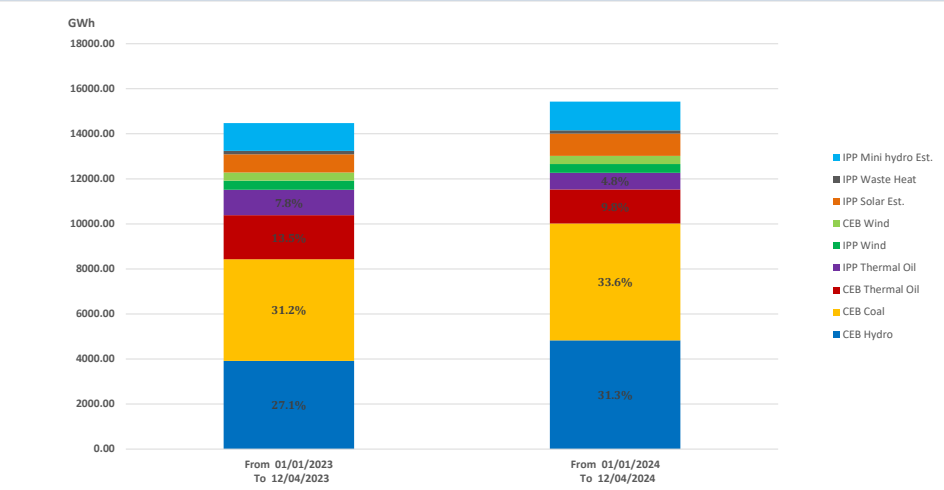


4. Variation of Demand during the current year



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 12/04/2023 14474 GWh
From 01/01/2024 To 12/04/2024 15434 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) -CEB	495
Rooftop Solar (LT Bulk) -CEB	338
Rooftop Solar (HT Bulk)- CEB	104
Rooftop Solar - LECO	245

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