

Generation and Reservoirs Statistics

December 9, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 9, 2024

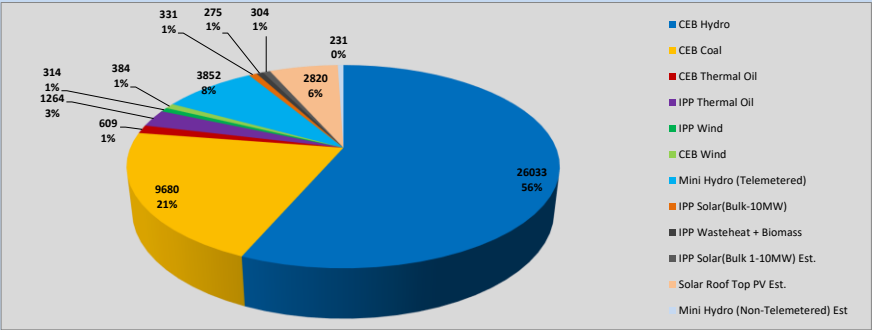


Table 01

	Generation (MWh)
CEB Hydro	26,033
CEB Coal	9,680
CEB Thermal Oil	609
IPP Thermal Oil	1,264
IPP Wind	314
CEB Wind	384
Mini Hydro (Telemetered)	3,852
IPP Solar (Bulk)	331
IPP Waste heat + Biomass	275
Total Generation (Excluding estimated figures)	42,742
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	231
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,820
Total Generation (Including estimated figures)	46,097

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	225	55.57%
CEB Coal	78	19.40%
CEB Thermal Oil	4	1.02%
IPP Thermal	7	1.80%
IPP Wind	6	1.38%
CEB Wind	5	1.12%
Mini Hydro *	45	11.17%
IPP Solar *	31	7.56%
IPP Waste heat + BMP	4	0.98%
Total	404	

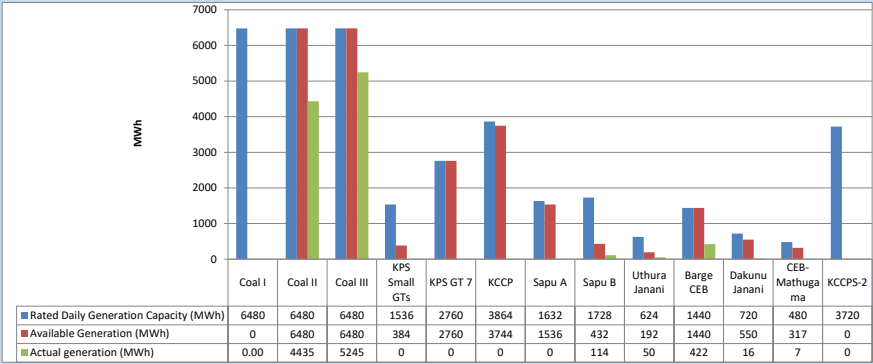
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	4,963	31.69%
CEB Coal	5,229	33.39%
CEB Thermal Oil	1,516	9.68%
IPP Thermal	743	4.74%
IPP Wind	389	2.48%
CEB Wind	370	2.36%
Mini Hydro *	1,300	8.30%
IPP Solar *	1,003	6.40%
IPP Waste heat	150	0.96%
Total	15,662	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 9, 2024

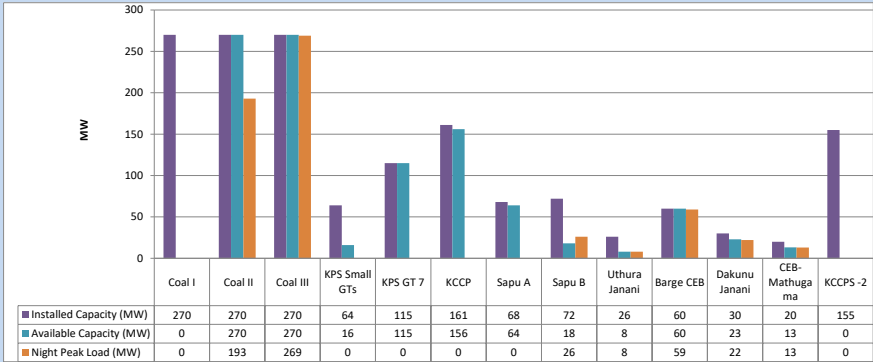


Available Generation is estimated based on plant availability at 6.00am on

December 10, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 9, 2024

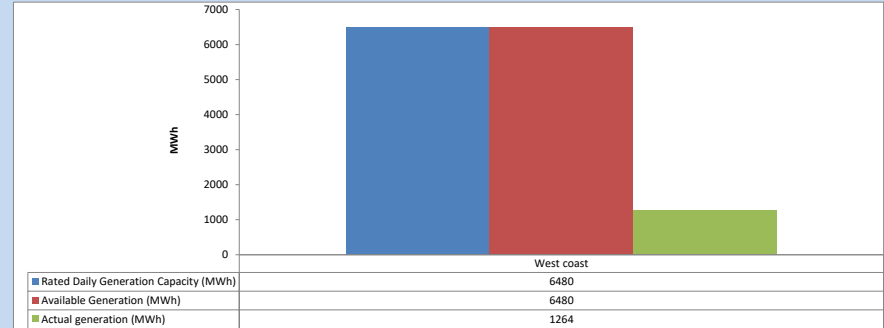


Plant availability is recorded at 6.00 am on

December 10, 2024

1.4 IPP owned Thermal Plant Dispatch

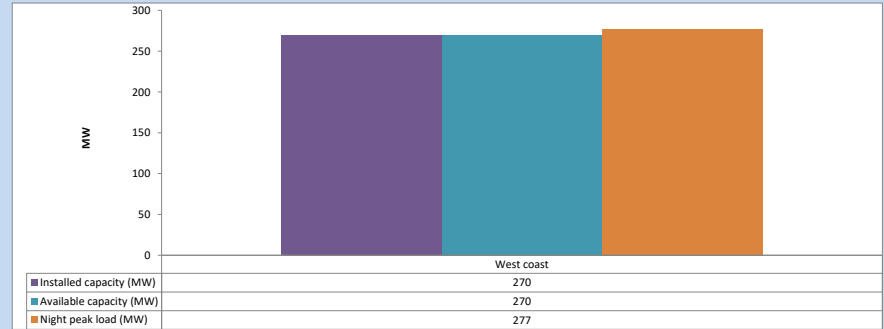
December 9, 2024



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

December 10, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

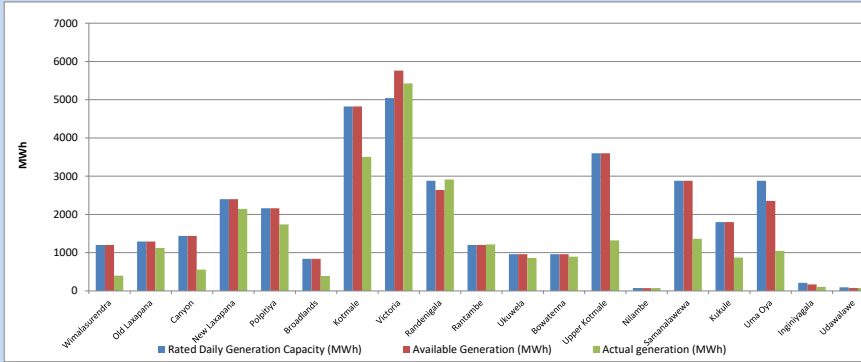


Plant availability is recorded at 6.00 am on

December 10, 2024

1.6 Major Hydro Plant Dispatch

December 9, 2024

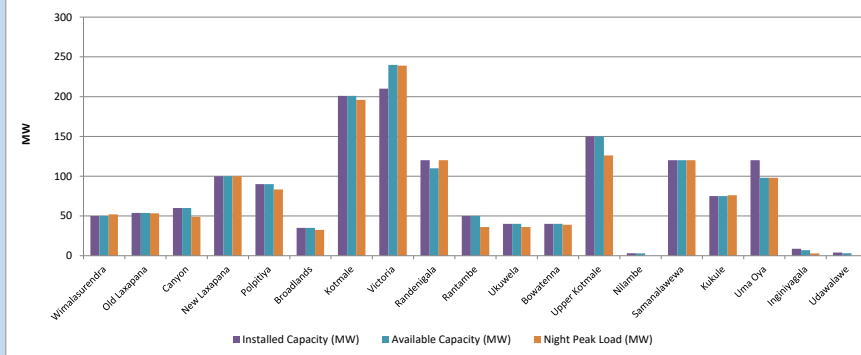


Available Generation is estimated based on plant availability at 6.00am on

December 10, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 9, 2024



Plant availability is recorded at 6.00 am on

December 10, 2024

1.8 Summary of Major Plant performance

December 9, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	52	400
Old Laxapana	54	54	53	1,121
Canyon	60	60	49	558
New Laxapana	100	100	100	2,143
Polpitiya	90	90	83	1,740
Broadlands	35	35	33	392
Kotmale	201	201	196	3,500
Victoria	210	240	239	5,426
Randenigala	120	110	120	2,914
Rantambe	50	50	36	1,218
Ukuwela	40	40	36	864
Bowatenna	40	40	39	896
Upper Kotmale	150	150	126	1,321
Nilambe	3	3	0	77
Samanalawewa	120	120	120	1,365
Kukule	75	75	76	872
Uma Oya	120	98	98	1,046
Inginigala	9	7	3	106
Udawalawe	4	3	0	77
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	193	4,435
Puttalam Coal III	270	270	269	5,245
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	0	0
Sapugaskanda A	68	64	0	0
Sapugaskanda B	72	18	26	114
Uthura Janani	26	8	8	50
Barge CEB	60	60	59	422
CEB-Hambantota	30	23	22	16
CEB-Mathugama	20	13	13	7
KCCPS-2	155	0	0	0
West Coast	270	270	277	1,264
Sobadhanavi	220	212	0	0
Total	3,602	2,809	2,548	42,745

Note-

Plant availability is the availability recorded at 6 am on

December 10, 2024

1.9 Contribution to the Night Peak in MW

December 9, 2024

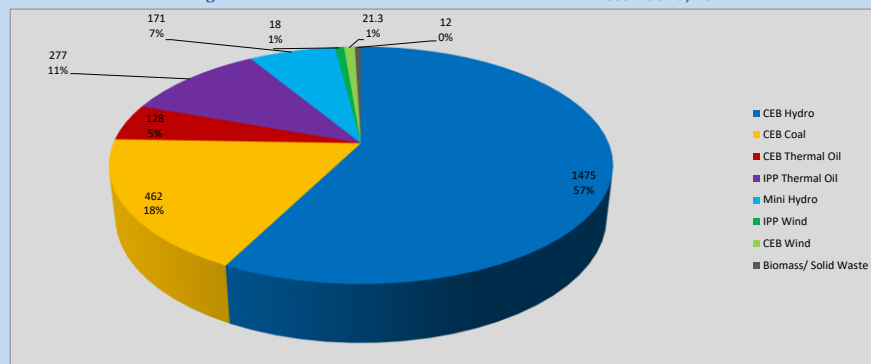


Table 05

CEB Hydro	1475	MW
CEB Coal	462	MW
CEB Thermal Oil	128	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	171	MW
IPP Wind	18	MW
CEB Wind	21.3	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

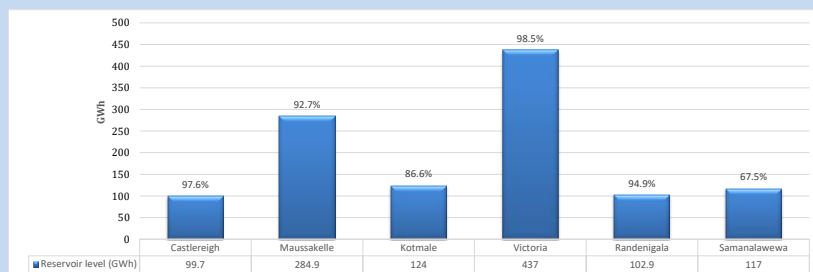
Table 06

Night Peak*	2,564	MW
Day Peak Maximum Demand	2,316	MW
Day Peak Minimum Demand	1,545	MW
Off Peak Minimum Demand	1,284	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 10, 2024



Total Reservoir Level
% of Total capacity

1165.5 GWh
91.2%

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

December 9, 2024

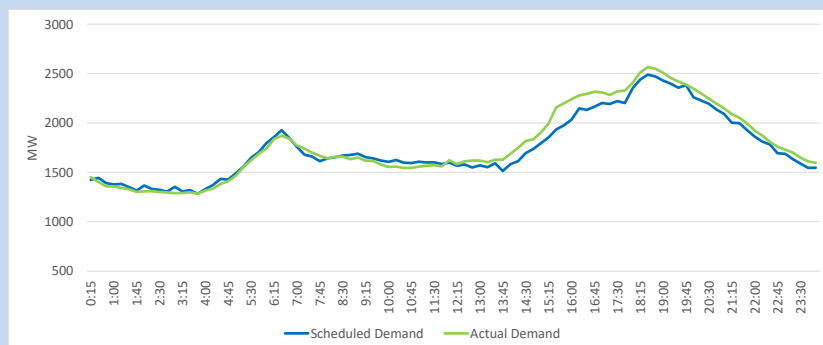
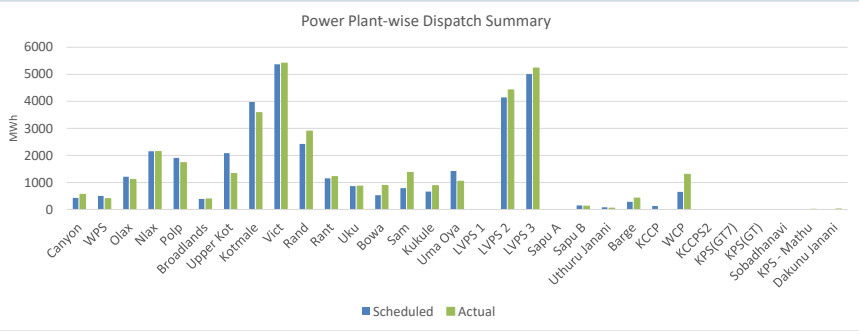


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	25,860	26,033	173
CEB Coal	9,158	9,680	522
CEB Thermal Oil	635	609	(26)
IPP Thermal Oil	653	1,264	611
NCRE (excluding non telemetered power plants)	5,623	5,156	(467)
Total	41,929	42,742	813

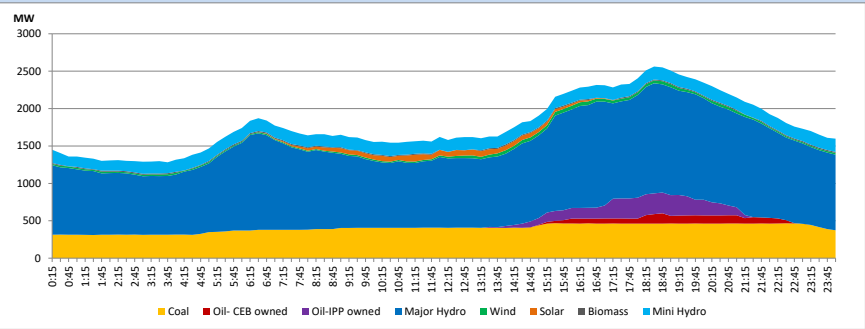
1.12 Power Plant-wise Dispatch Summary

December 9, 2024



1.13 Daily Load Curve

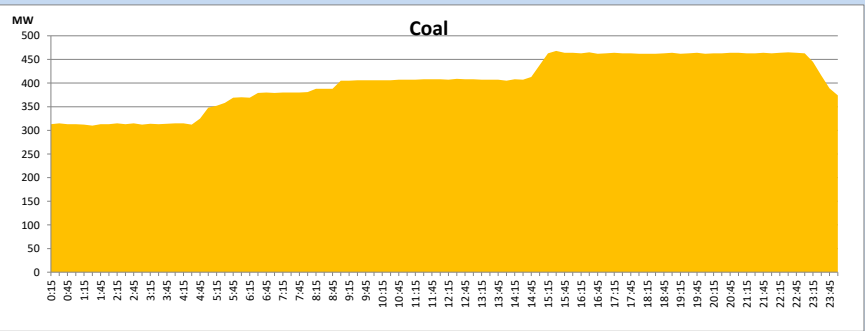
December 9, 2024



Solar and wind data is based on Telemetered Power Stations only

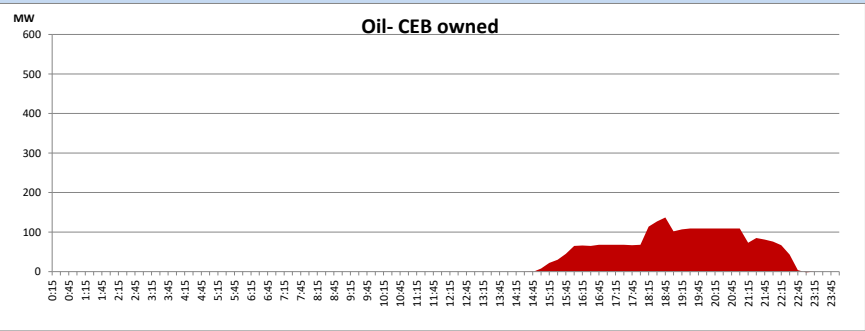
Coal Generation during

December 9, 2024



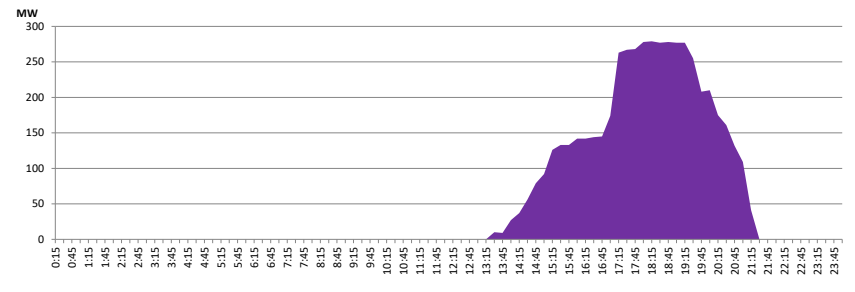
CEB Oil Plant Generation during

December 9, 2024



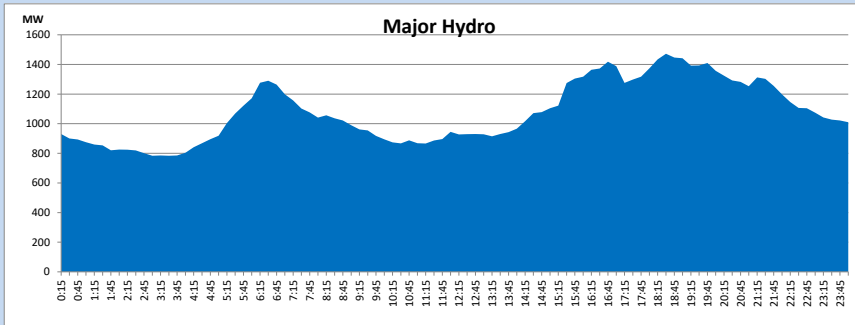
IPP Oil Plant Generation during

December 9, 2024



Major Hydro Generation during

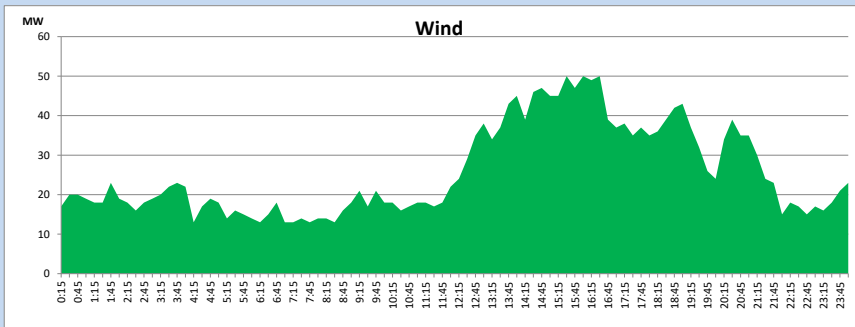
December 9, 2024



Wind Generation during

December 9, 2024

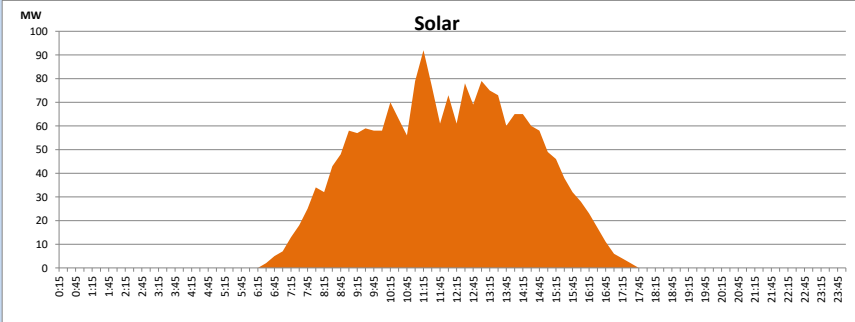
Based on Telemetered Power Stations only



Solar Generation during

December 9, 2024

Based on Telemetered Power Stations only

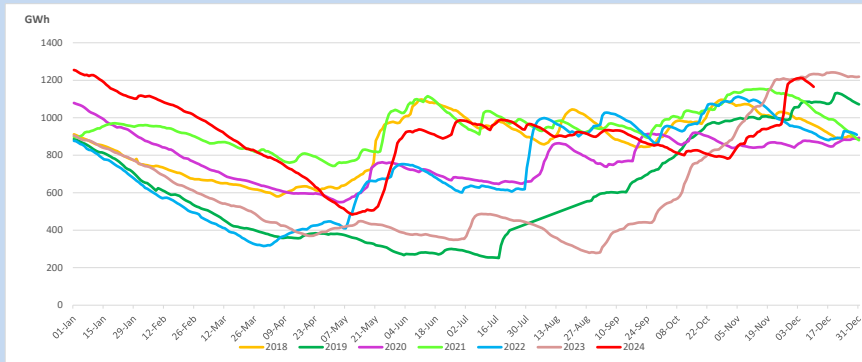


1.14 Major Incidents reported during the day

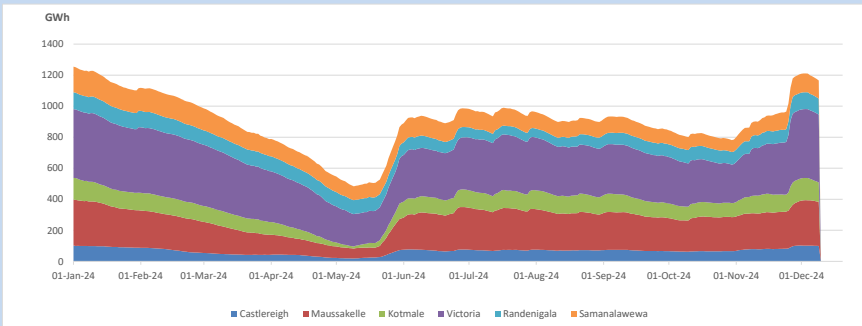
December 9, 2024

- 1) New Anuradhapura - Vauniya 132kV cct 01 tripped & A/R from both ends at 08:36hrs due to the operation of distance protection.
- 2) Kolonnawa - Pannipitiya - S/I'pura 132kV cct 02, which was tripped on 30.11.2024 and energized only from Pannipitiya and S/I'pura ends up to the Tower No. 23 on 01.12.2024, was restored at 15:55hrs.
- 3) Sapugaskanda PS units 09, 11 and 12 made a forced shutdown at 21:07hrs due to a hot water leak. Sapugaskanda PS unit 07 made a forced shutdown at 21:32 hrs due to a boiler leak. All four units are yet to be made available for generation.

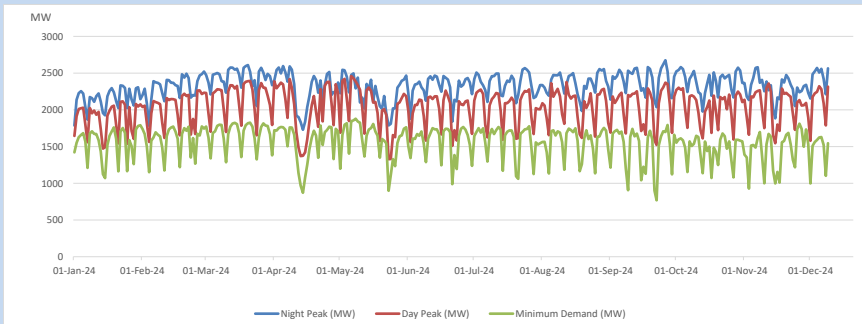
2. Comparison of Total Reservoir Storage Levels with Past Years



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

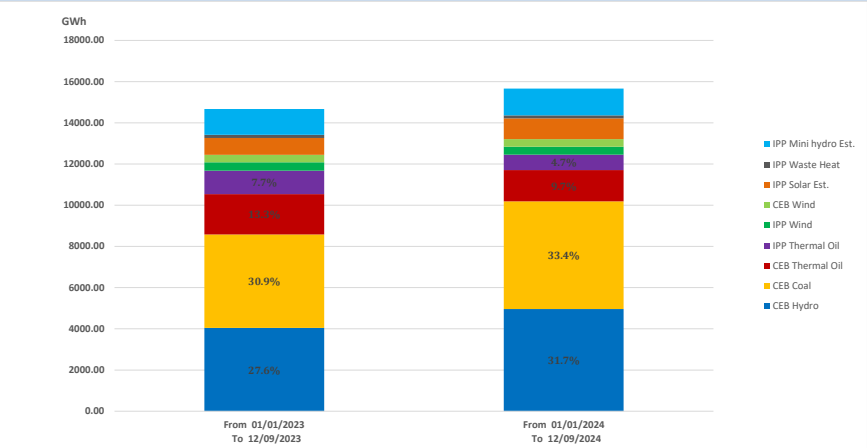


4. Variation of Demand during the current year



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 12/09/2023 14670 GWh
From 01/01/2024 To 12/09/2024 15662 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 Capcity

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