

# Generation and Reservoirs Statistics

January 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

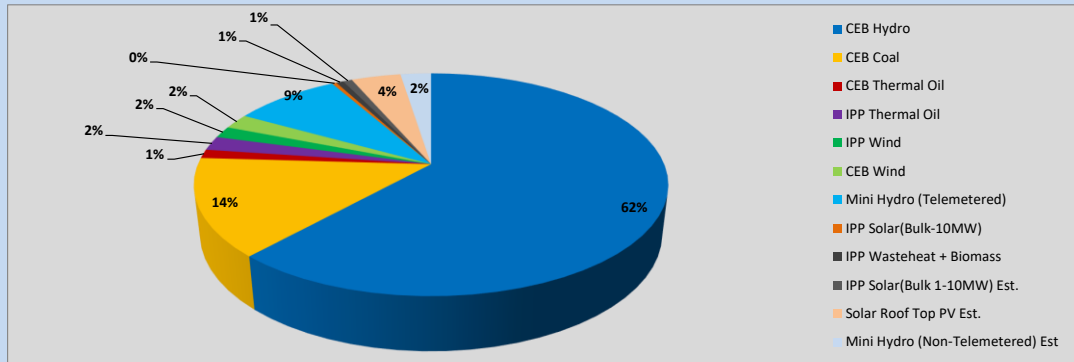


Table 01

	Generation (MWh)
CEB Hydro	25,276
CEB Coal	5,810
CEB Thermal Oil	519
IPP Thermal Oil	842
IPP Wind	691
CEB Wind	892
Mini Hydro (Telemetered)	3,547
IPP Solar (Bulk)	150
IPP Waste heat + Biomass	240
<b>Total Generation (Excluding estimated figures)</b>	<b>37,967</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1020
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
<b>Total Generation (Including estimated figures)</b>	<b>40,941</b>

\* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1409
CEB Coal	810
CEB Thermal Oil	781
IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya)	387
IPP Wind	148
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	50
IPP Solar	136
Rooftop Solar (Ordinary)	277
Rooftop Solar (LT Bulk)	263
Rooftop Solar (HT Bulk)	70

Data Source - Monthly Review Report [Aug-2023]

## 2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	49	62.73%
CEB Coal	11	14.21%
CEB Thermal Oil	1	0.74%
IPP Thermal	1	1.35%
SPP Wind	1	1.61%
CEB Wind	2	2.41%
Mini Hydro *	9	10.97%
IPP Solar *	4	5.33%
IPP Waste heat + BMP	1	0.65%
<b>Total</b>	<b>78</b>	

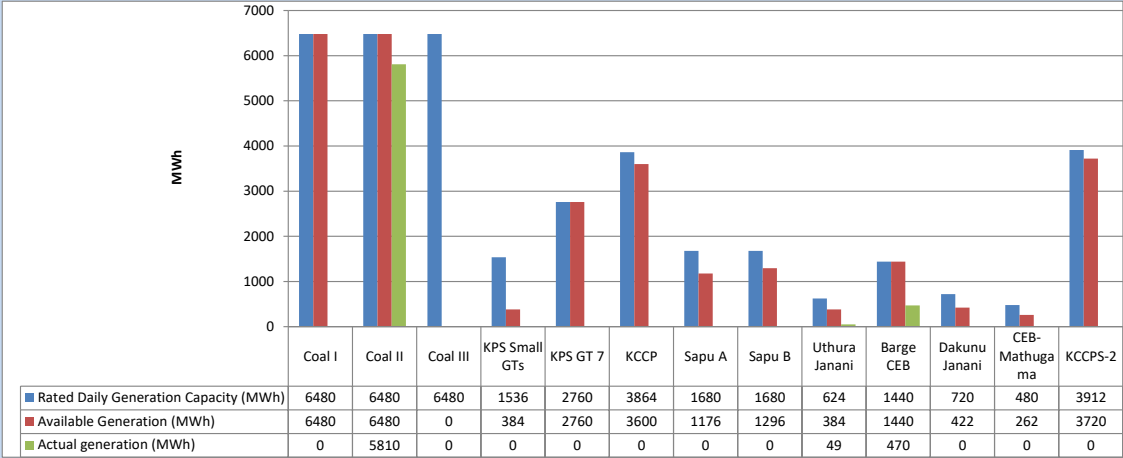
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	49	62.73%
CEB Coal	11	14.21%
CEB Thermal Oil	1	0.74%
IPP Thermal	1	1.35%
SPP Wind	1	1.61%
CEB Wind	2	2.41%
Mini Hydro *	9	10.97%
IPP Solar *	4	5.33%
IPP Waste heat	1	0.65%
<b>Total</b>	<b>78</b>	

\*Including estimated contribution from non telemetered plants

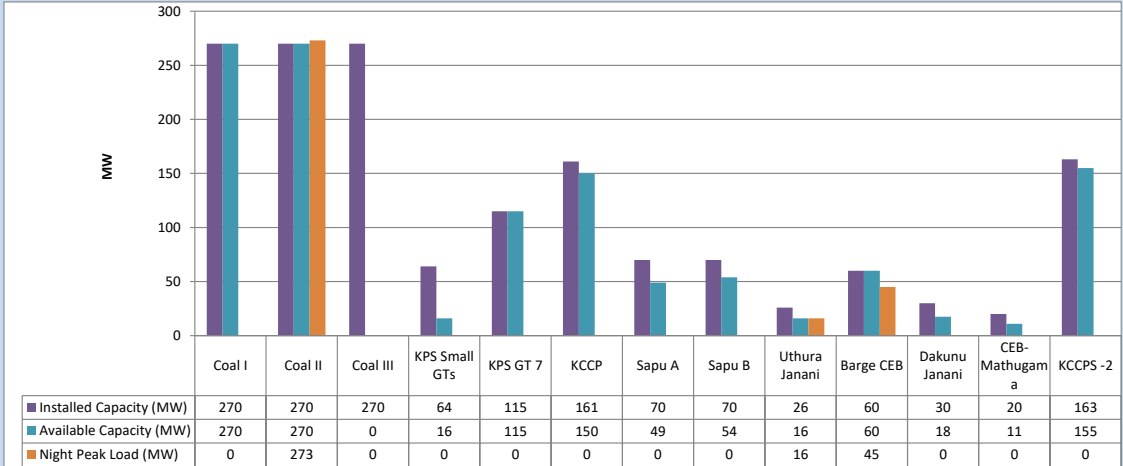
3. CEB owned Thermal Plant Dispatch

January 2, 2024



Available Generation is estimated based on plant availability at 6.00am on January 3, 2024

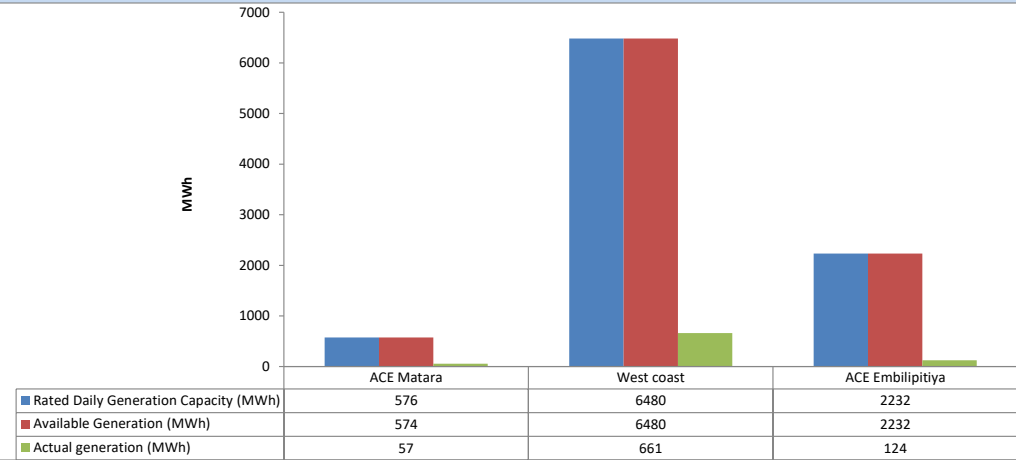
4. CEB owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on January 3, 2024

5. IPP owned Thermal Plant Dispatch

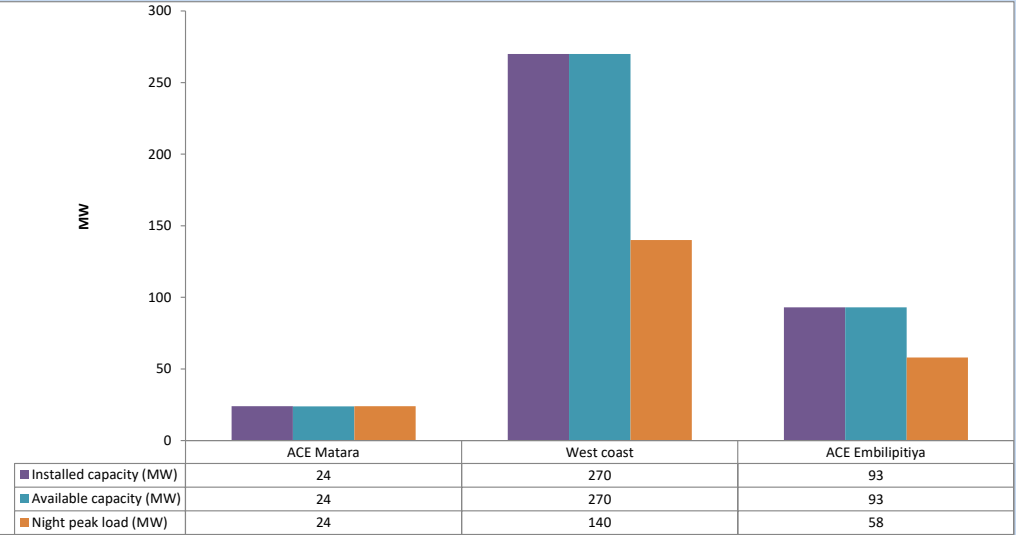
January 2, 2024



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

January 3, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

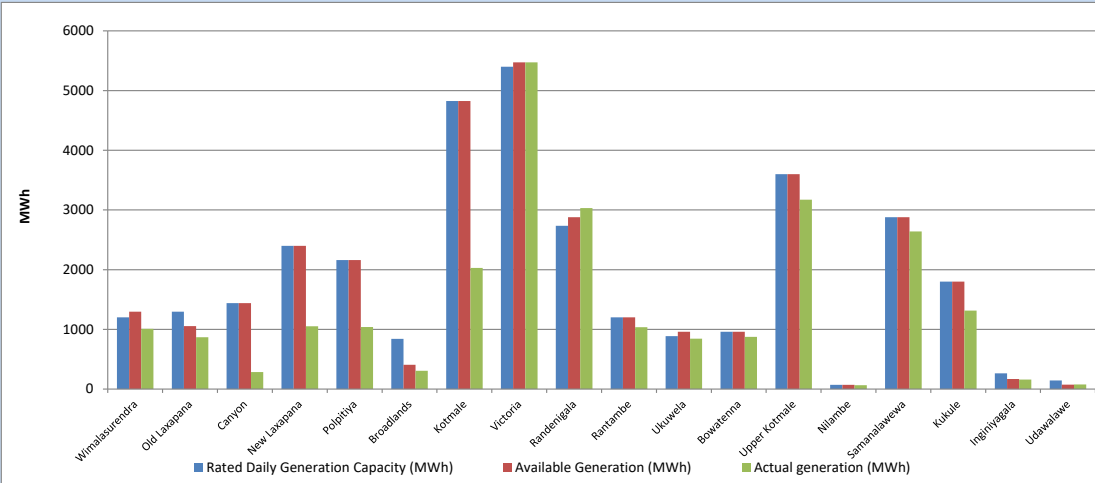


Plant availability is recorded at 6.00 am on

January 3, 2024

7. Major Hydro Plant Dispatch

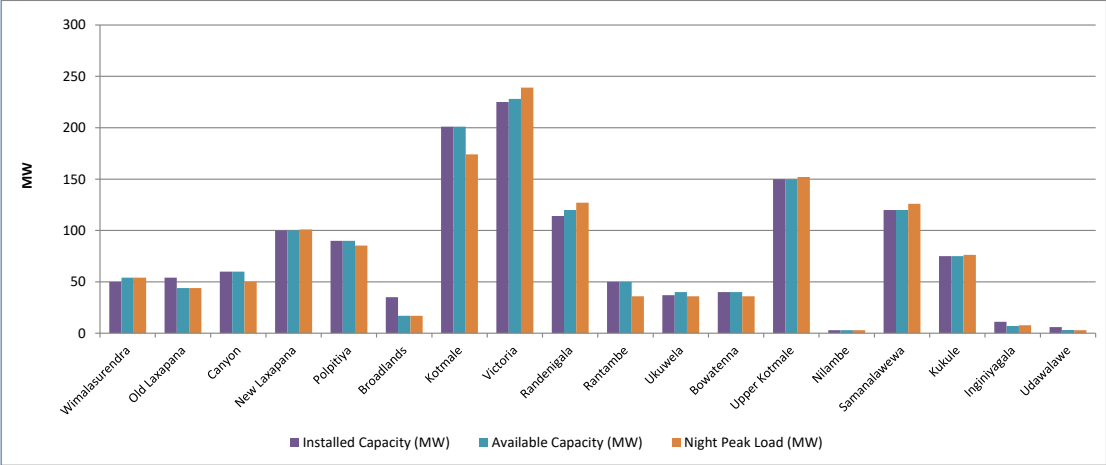
January 2, 2024



Available Generation is estimated based on plant availability at 6.00am on January 3, 2024  
Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

January 2, 2024



Plant availability is recorded at 6.00 am on January 3, 2024  
Broadlands power plant is operating in the Commissioning Stage

## 9. Summary of Major Plant performance

**Table 05**

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	54	54	1,009
Old Laxapana	54	44	44	867
Canyon	60	60	50	285
New Laxapana	100	100	101	1,052
Polpitiya	90	90	85	1,040
Broadlands	35	17	17	306
Kotmale	201	201	174	2,030
Victoria	225	228	239	5,472
Randenigala	114	120	127	3,031
Rantambe	50	50	36	1,037
Ukuwela	37	40	36	845
Bowatenna	40	40	36	874
Upper Kotmale	150	150	152	3,173
Nilambe	3	3	3	65
Samanalawewa	120	120	126	2,639
Kukule	75	75	76	1,314
Inginiyagala	11	7	8	159
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	0	0
Puttalam Coal II	270	270	273	5,810
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	49	0	0
Sapugaskanda B	70	54	0	0
Uthura Janani	26	16	16	49
Barge CEB	60	60	45	470
CEB-Hambantota	30	18	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	24	24	57
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	140	661
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	93	58	124
Total	3,483	2,973	2,127	37,967

Plant availability is the availability recorded at 6 am on

January 3, 2024

10. Contribution to the Night Peak in MW

January 2, 2024

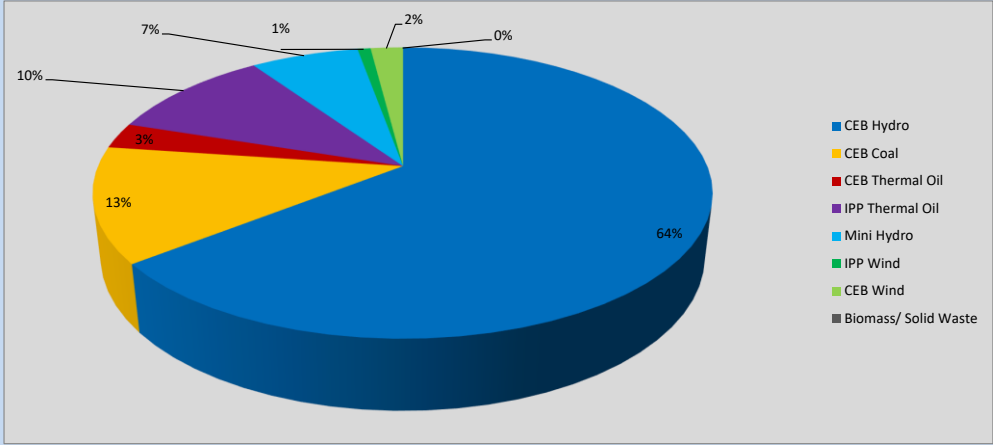


Table 06

CEB Hydro	1376	MW
CEB Coal	273	MW
CEB Thermal Oil	61	MW
IPP Thermal Oil	222	MW
Mini Hydro (Telemetered)	144	MW
IPP Wind	17.4	MW
CEB Wind	43.1	MW
Biomass/ Solid Waste	0	MW

Recorded Peak Demand Data

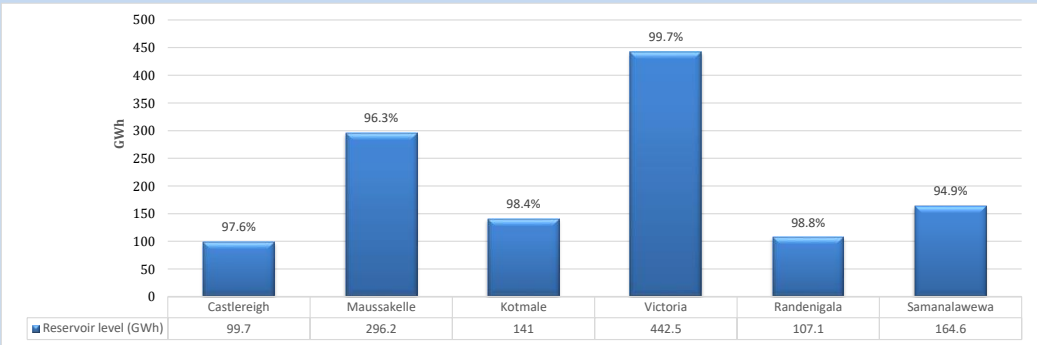
Table 07

Night Peak*	2,136	MW
Day Peak Maximum Demand	1,913	MW
Day Peak Minimum Demand	1,552	MW
Off Peak Minimum Demand	994	MW

Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

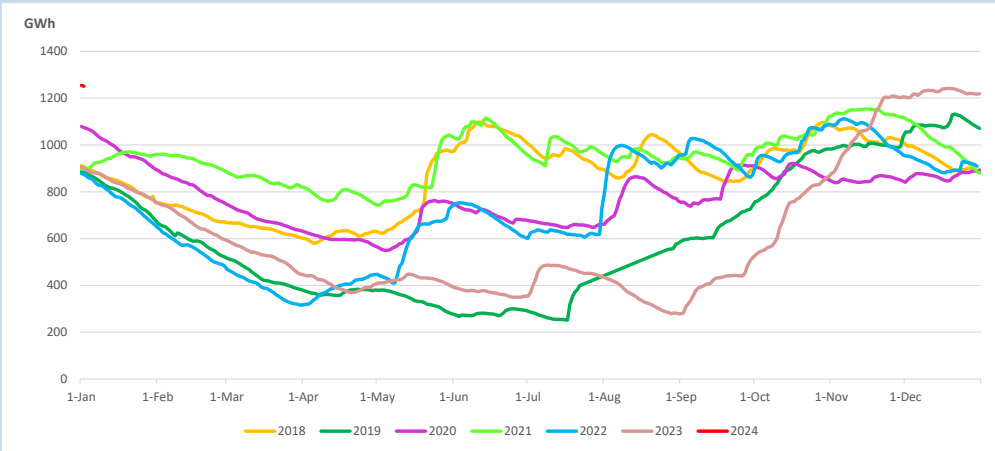
Reservoir Levels -

as at 06.00 Hr on January 3, 2024

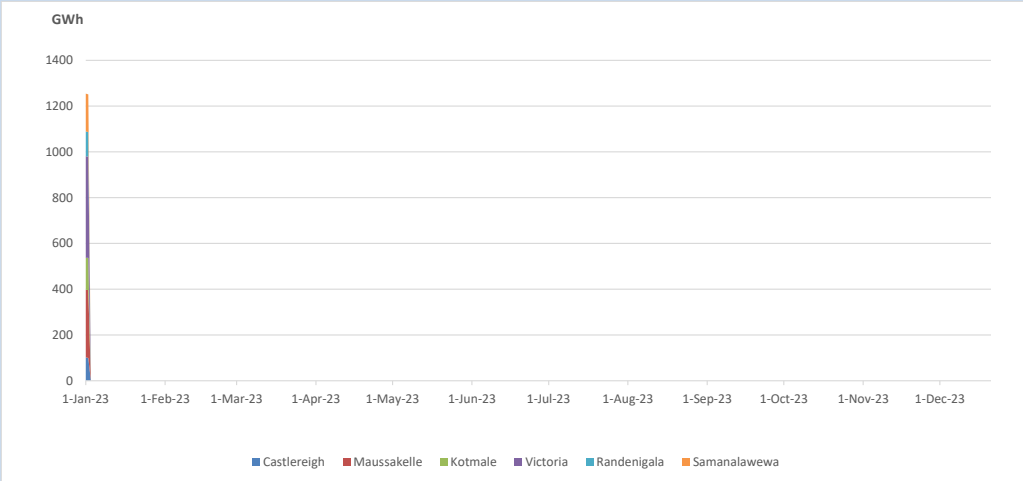


Total Reservoir Level 1251.1 GWh  
% of Total capacity 97.8%

11. Comparison of Total Reservoir Storage Levels with Past Years

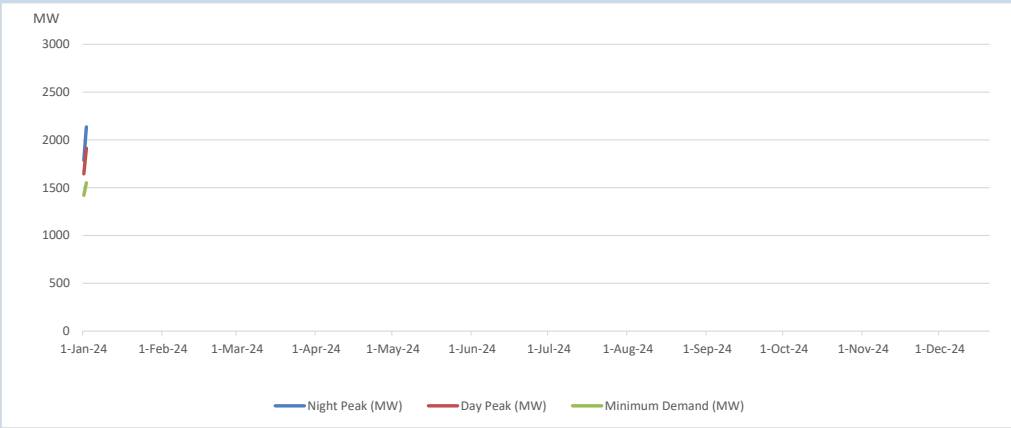


12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





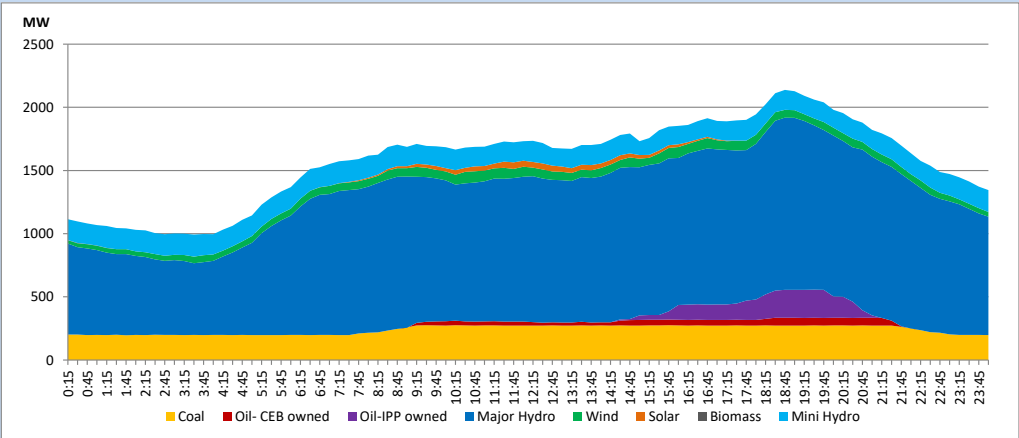
13. Variation of Demand during the current year



The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve

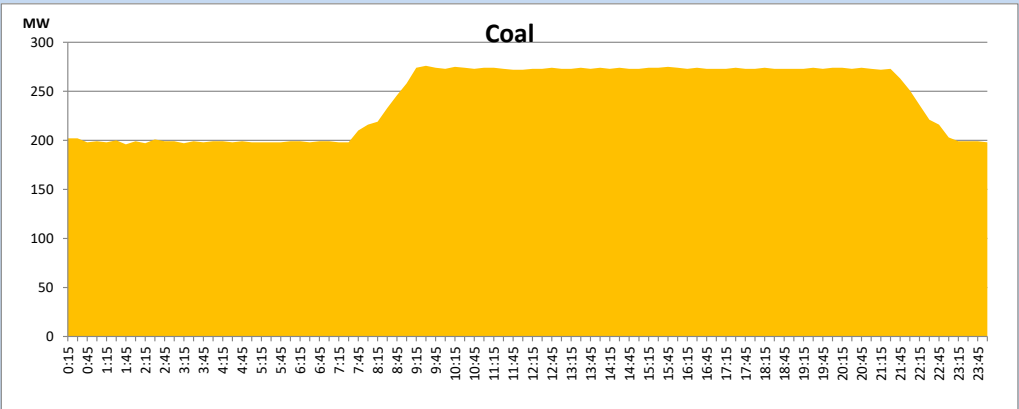
January 2, 2024



Solar and wind data is based on Telemetered Power Stations only

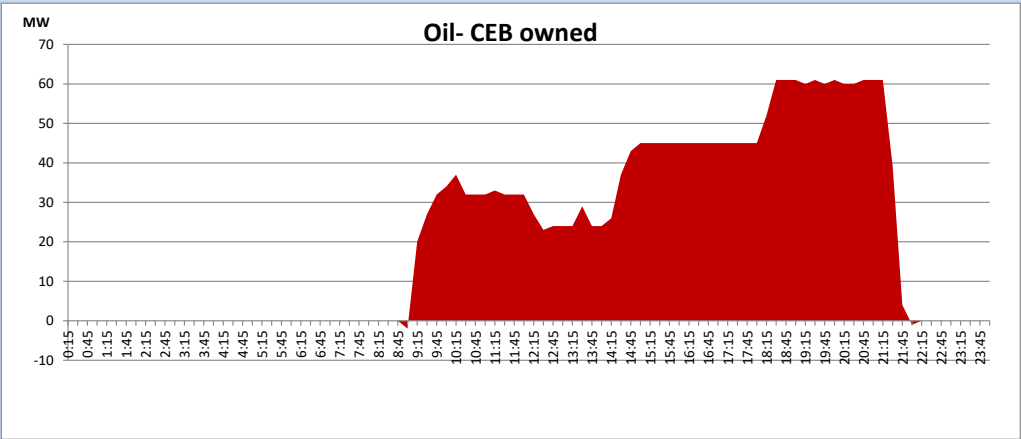
Coal Generation during

January 2, 2024



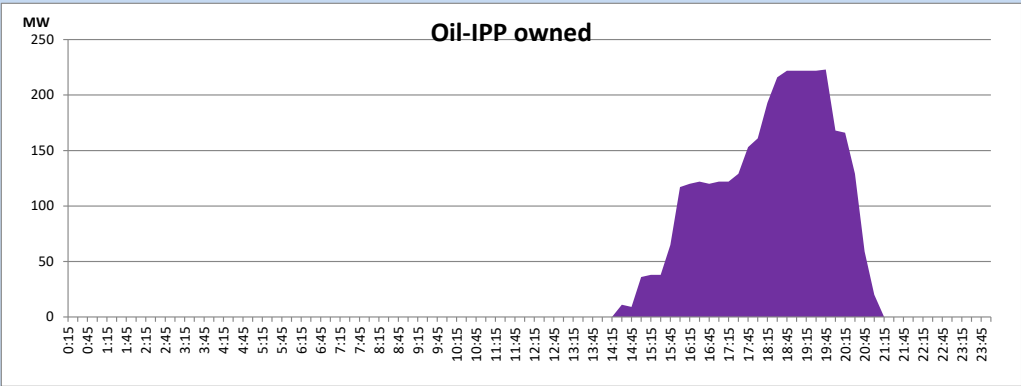
CEB Oil Plant Generation during

January 2, 2024



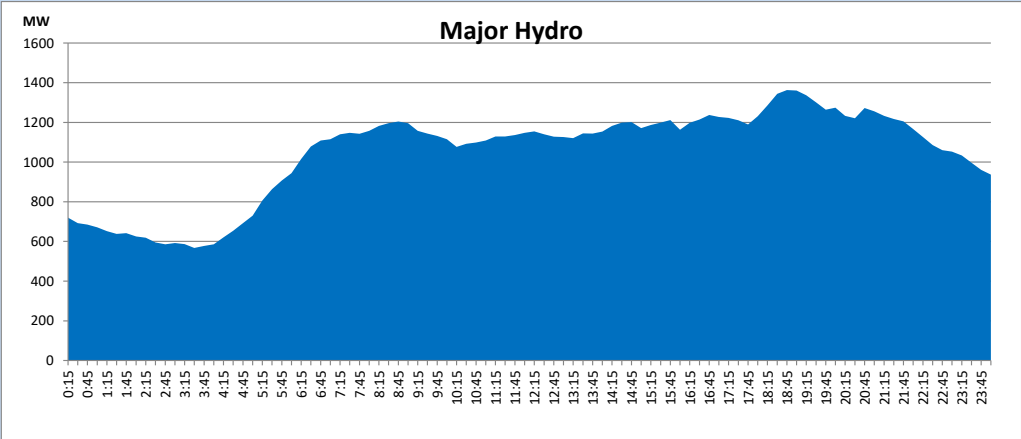
IPP Oil Plant Generation during

January 2, 2024



Major Hydro Generation during

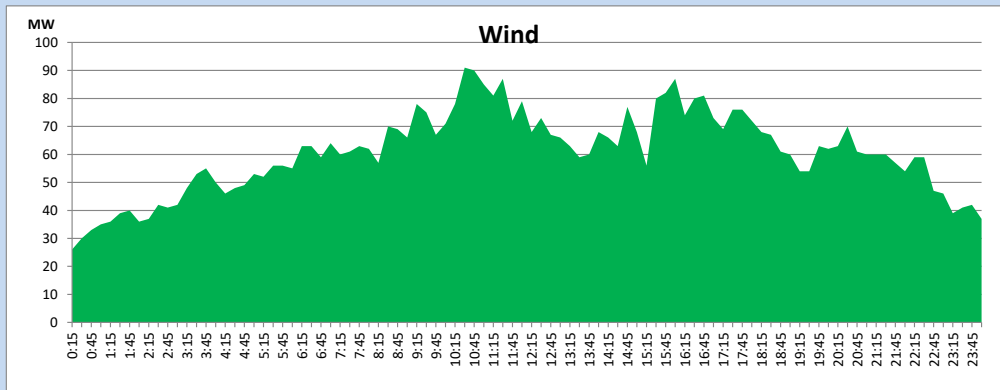
January 2, 2024



## Wind Generation during

January 2, 2024

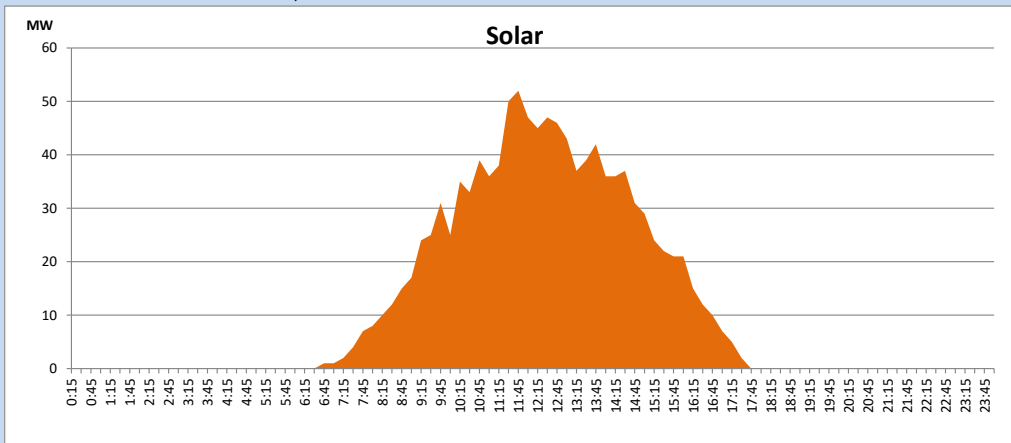
Based on Telemetered Power Stations only



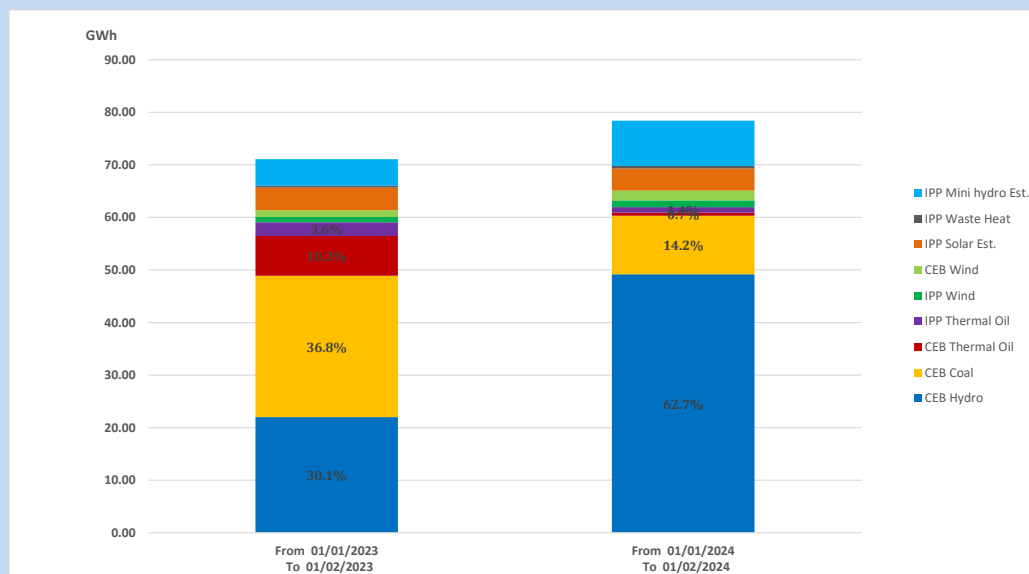
## Solar Generation during

January 2, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
From 01/01/2023 To 01/02/2023

73 GWh

From 01/01/2024 To 01/02/2024

78 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants (figures have been adjusted based on the data from the CEB monthly review reports.)

Thermal 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
ACE Matara	Heavy Fuel
ACE Embilipitiya	Heavy Fuel

Major Incidents reported during the day

January 2, 2024

- 1) Mannar GSS 220/33kV T/F 01 tripped only from 33kV end along with the 33kV feeder 02 at 13:56hrs due to the operation of earth fault protection causing Mannar GSS to be dead. The T/F was normalized at 14:10hrs and all affected feeders were normalized at 14:28hrs.
- 2) WCP availability was limited to 130MW from 14:00hrs to 22:00hrs due to GT1 lube oil system inspection.
- 3) Upper Kothmale pond and Bowathenna reservoir spilling stopped at 15:00hrs and 19:00hrs respectively.
- 4) Mannar GSS 220/33kV T/F 01 tripped from both ends along with the 33kV feeder 01 at 17:30hrs due to the operation of differential protection causing Mannar GSS to be dead. The T/F was normalized at 19:35hrs and all affected feeders except feeder 1 and feeder 2 were normalized by 19:41hrs.
- 5) Victoria reservoir and Randenigala reservoir spilled intermittently and spilling stopped at 19:35hrs and 21:30hrs respectively.
- 6) Rantambe pond spilling continues to the present hour.