

# Generation and Reservoirs Statistics

January 3, 2024



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

## 1. Daily Generation Mix in MWh

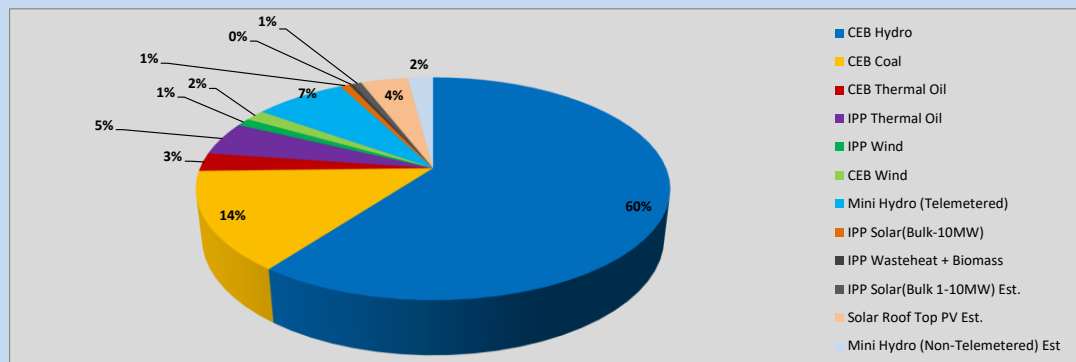


Table 01

	Generation (MWh)
CEB Hydro	25,758
CEB Coal	6,140
CEB Thermal Oil	1,137
IPP Thermal Oil	2,080
IPP Wind	481
CEB Wind	676
Mini Hydro (Telemetered)	3,202
IPP Solar (Bulk)	326
IPP Waste heat + Biomass	129
<b>Total Generation (Excluding estimated figures)</b>	<b>39,929</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	875
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
<b>Total Generation (Including estimated figures)</b>	<b>42,758</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	75	61.86%
CEB Coal	17	14.26%
CEB Thermal Oil	2	1.42%
IPP Thermal	3	2.59%
SPP Wind	2	1.44%
CEB Wind	3	2.12%
Mini Hydro *	13	10.46%
IPP Solar *	6	5.33%
IPP Waste heat + BMP	1	0.53%
<b>Total</b>	<b>121</b>	

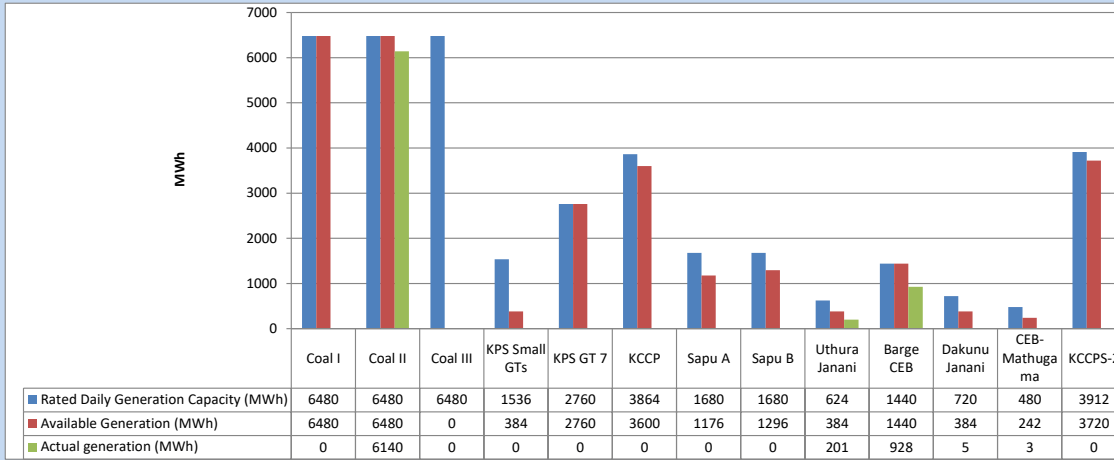
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	75	61.86%
CEB Coal	17	14.26%
CEB Thermal Oil	2	1.42%
IPP Thermal	3	2.59%
SPP Wind	2	1.44%
CEB Wind	3	2.12%
Mini Hydro *	13	10.46%
IPP Solar *	6	5.33%
IPP Waste heat	1	0.53%
<b>Total</b>	<b>121</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

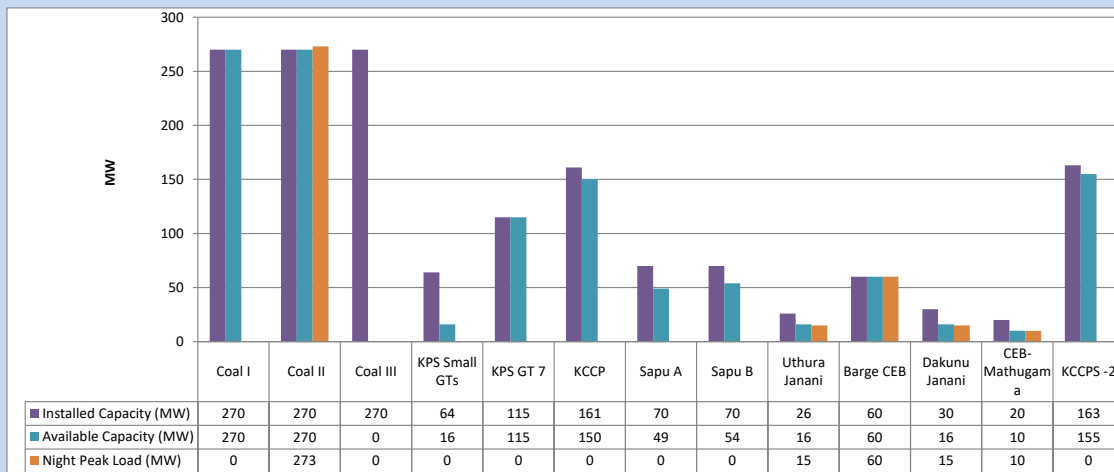
January 3, 2024



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

January 4, 2024

### 4. CEB owned Thermal Plant Loading at the Night Peak

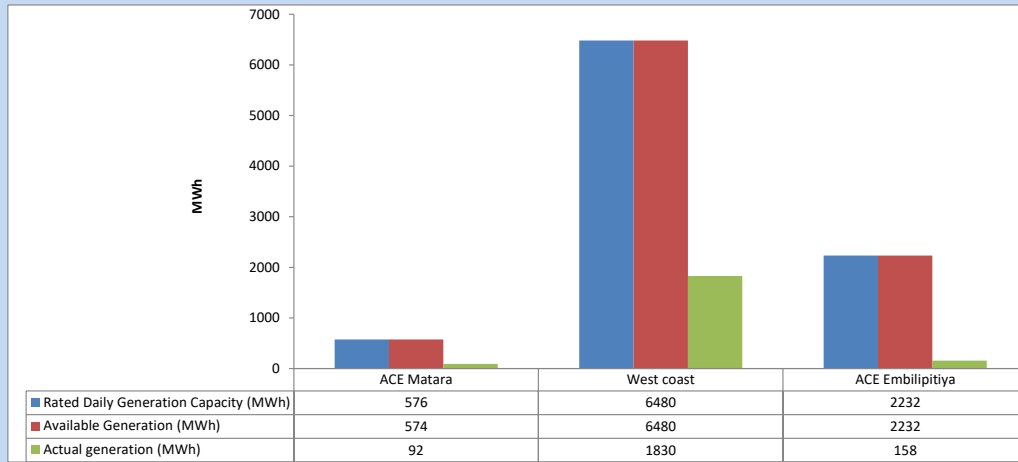


Plant availability is recorded at 6.00 am on

January 4, 2024

### 5. IPP owned Thermal Plant Dispatch

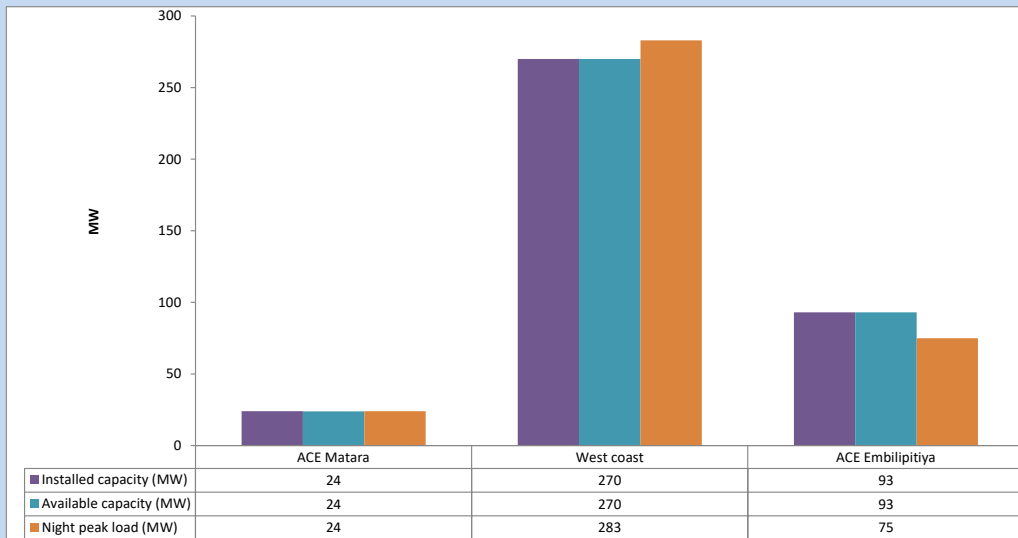
January 3, 2024



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

January 4, 2024

### 6. IPP owned Thermal Plant Loading at the Night Peak

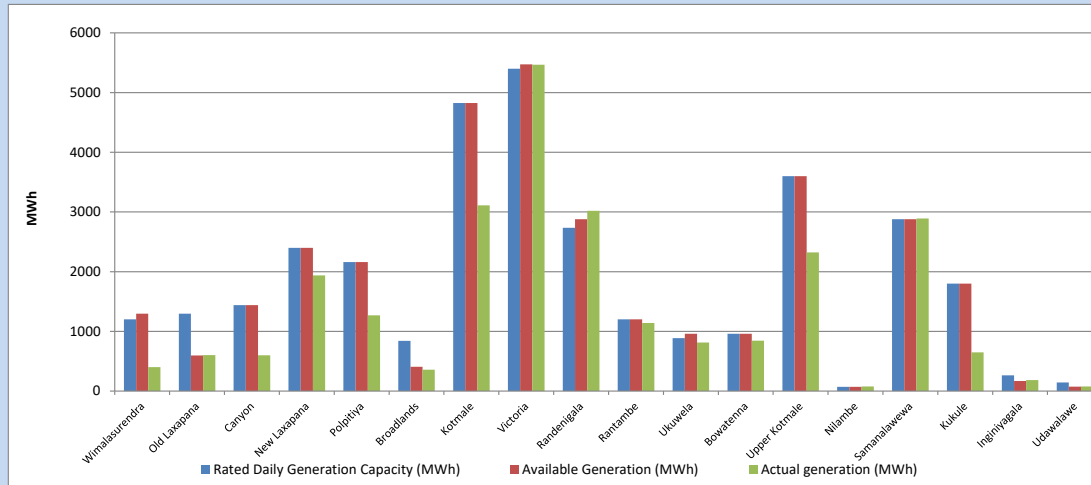


Plant availability is recorded at 6.00 am on

January 4, 2024

### 7. Major Hydro Plant Dispatch

January 3, 2024

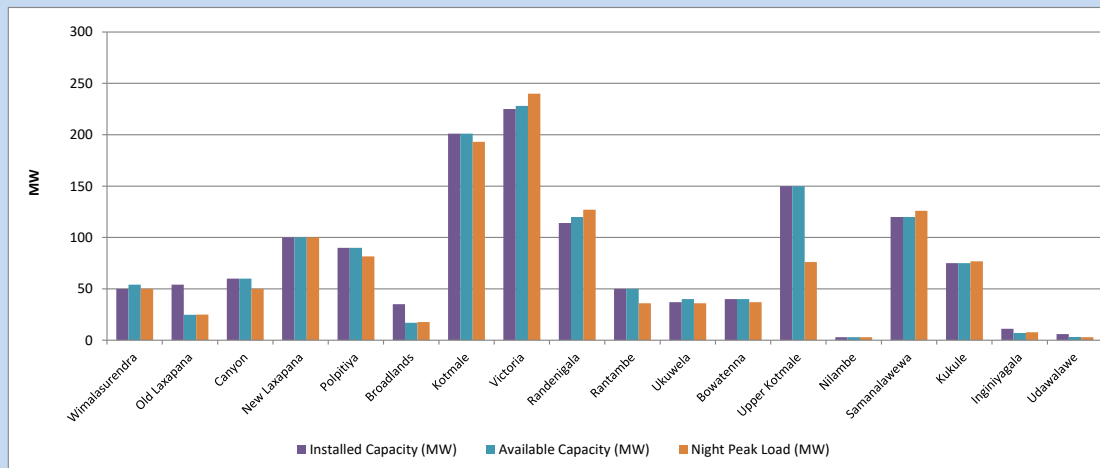


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

January 4, 2024

### 8. Major Hydro Plant Loading at Night Peak

January 3, 2024



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

January 4, 2024

## 9. Summary of Major Plant performance

Table 05

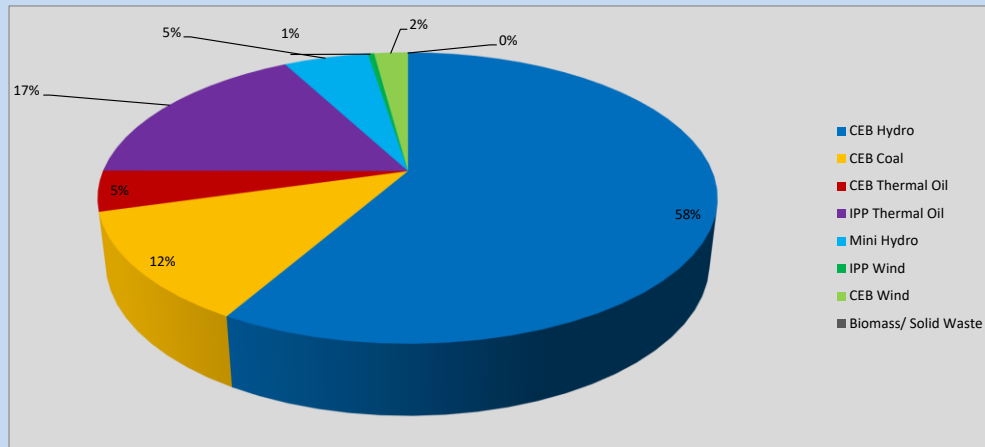
Plant	Installed Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	54	50	402
Old Laxapana	54	25	25	603
Canyon	60	60	50	599
New Laxapana	100	100	100	1,937
Polpitiya	90	90	82	1,270
Broadlands	35	17	18	359
Kotmale	201	201	193	3,110
Victoria	225	228	240	5,465
Randenigala	114	120	127	3,018
Rantambe	50	50	36	1,139
Ukuwela	37	40	36	812
Bowatenna	40	40	37	845
Upper Kotmale	150	150	76	2,324
Nilambe	3	3	3	78
Samanalawewa	120	120	126	2,890
Kukule	75	75	77	647
Inginiyagala	11	7	8	183
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	0	0
Puttalam Coal II	270	270	273	6,140
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	15	201
Barge CEB	60	60	60	928
CEB-Hambantota	30	16	15	5
CEB-Mathugama	20	10	10	3
ACE Matara	24	24	24	92
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	283	1,830
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	75	158
<b>Total</b>	<b>3,483</b>	<b>2,951</b>	<b>2,214</b>	<b>39,930</b>

Plant availability is the availability recorded at 6 am on

January 4, 2024

### 10. Contribution to the Night Peak in MW

January 3, 2024



**Table 06**

CEB Hydro	1298	MW
CEB Coal	273	MW
CEB Thermal Oil	100	MW
IPP Thermal Oil	382	MW
Mini Hydro (Telemetered)	118	MW
IPP Wind	8.6	MW
CEB Wind	47	MW
Biomass/ Solid Waste	0	MW

#### Recorded Peak Demand Data

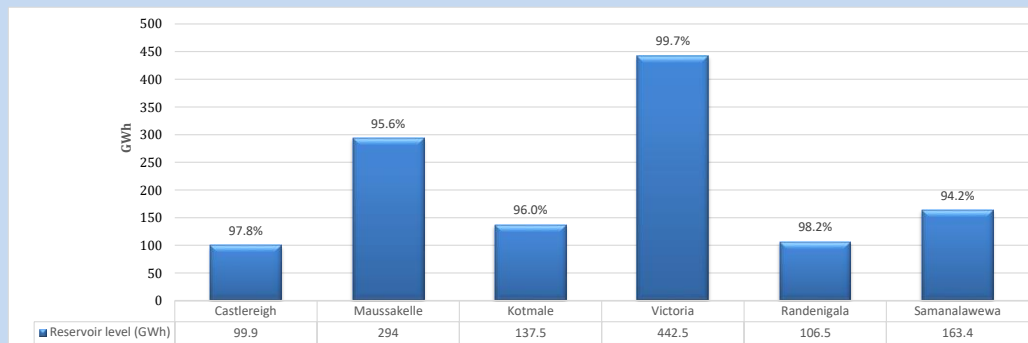
**Table 07**

Night Peak*	2,227	MW
Day Peak Maximum Demand	2,011	MW
Day Peak Minimum Demand	1,628	MW
Off Peak Minimum Demand	1,177	MW

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

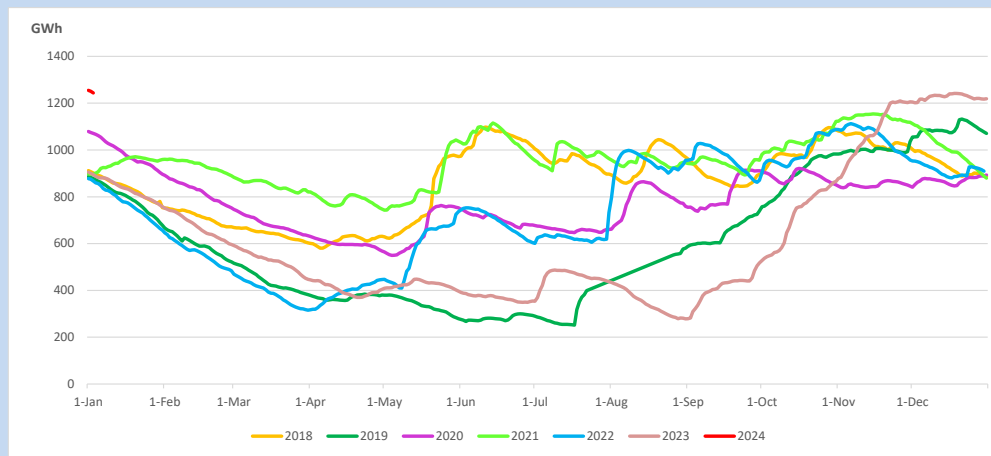
#### Reservoir Levels -

as at 06.00 Hr on January 4, 2024

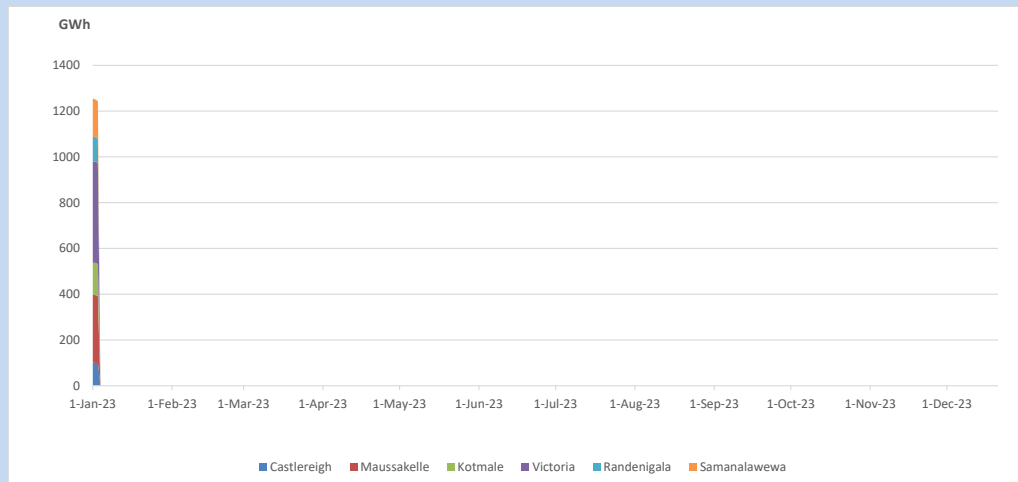


Total Reservoir Level            1243.8 GWh  
 % of Total capacity                97.3%

### 11. Comparison of Total Reservoir Storage Levels with Past Years

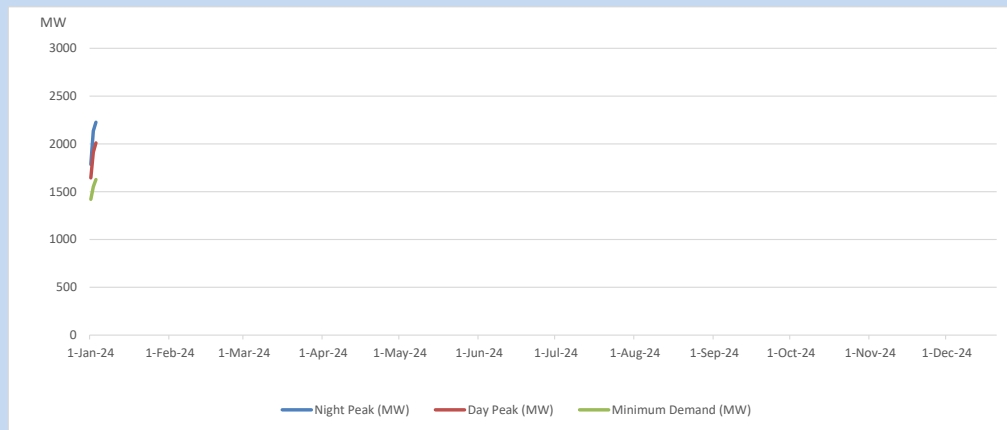


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





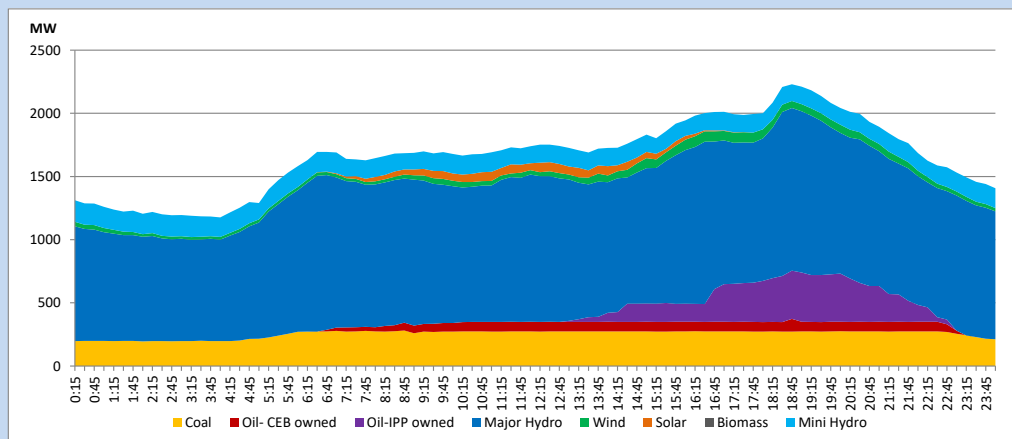
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

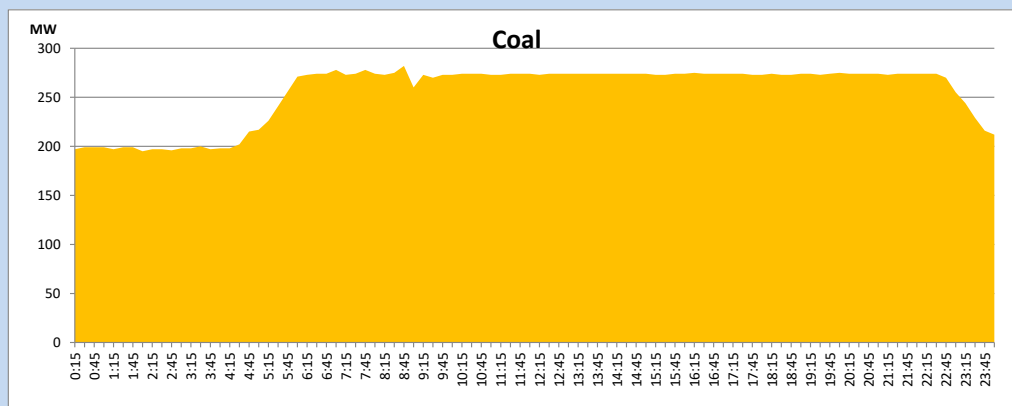
January 3, 2024



Solar and wind data is based on Telemetered Power Stations only

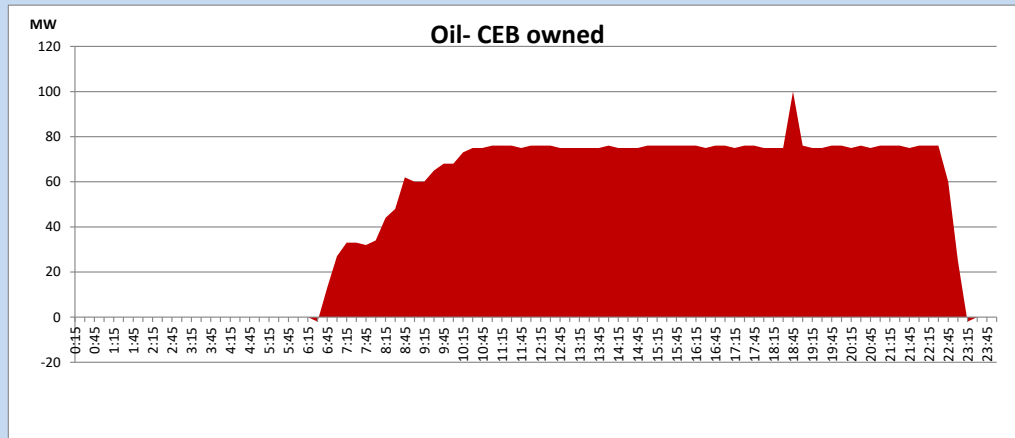
### Coal Generation during

January 3, 2024



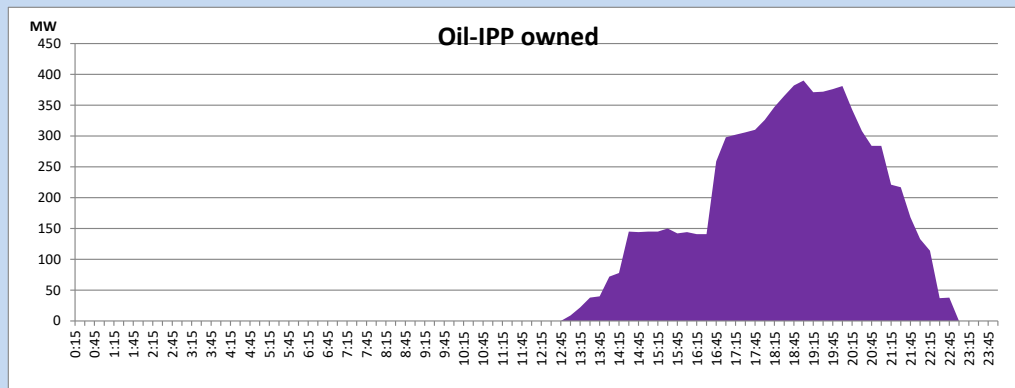
CEB Oil Plant Generation during

January 3, 2024



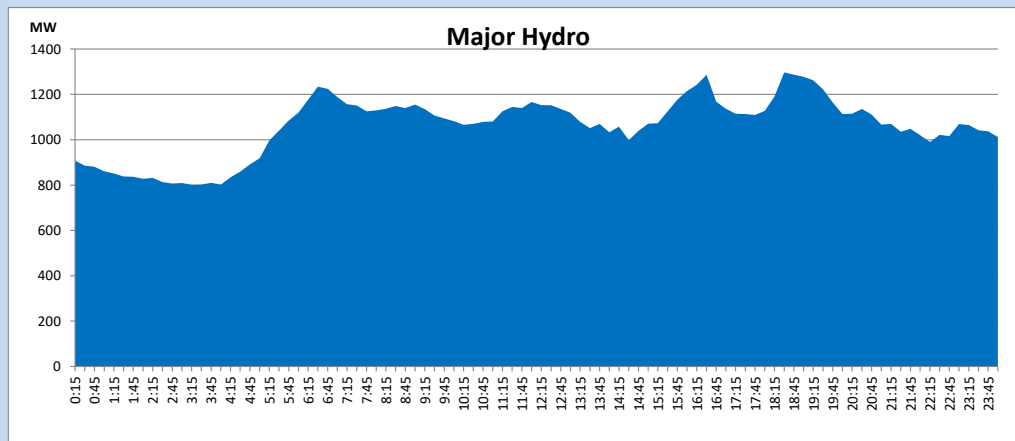
IPP Oil Plant Generation during

January 3, 2024



Major Hydro Generation during

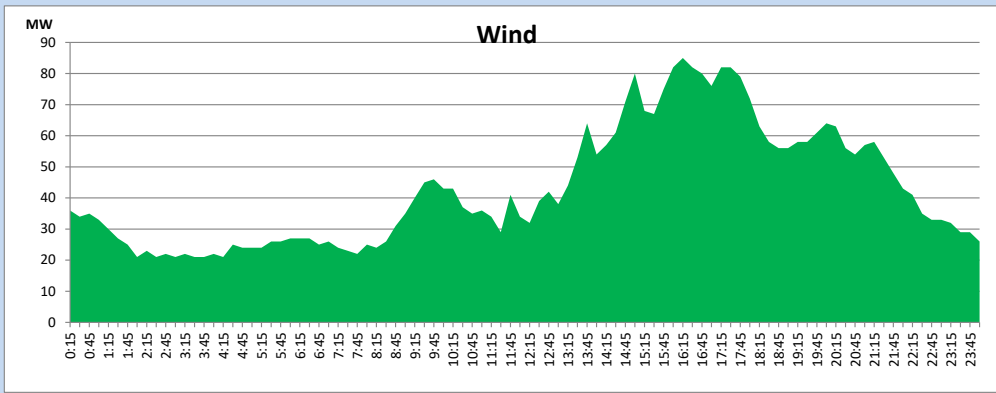
January 3, 2024



## Wind Generation during

January 3, 2024

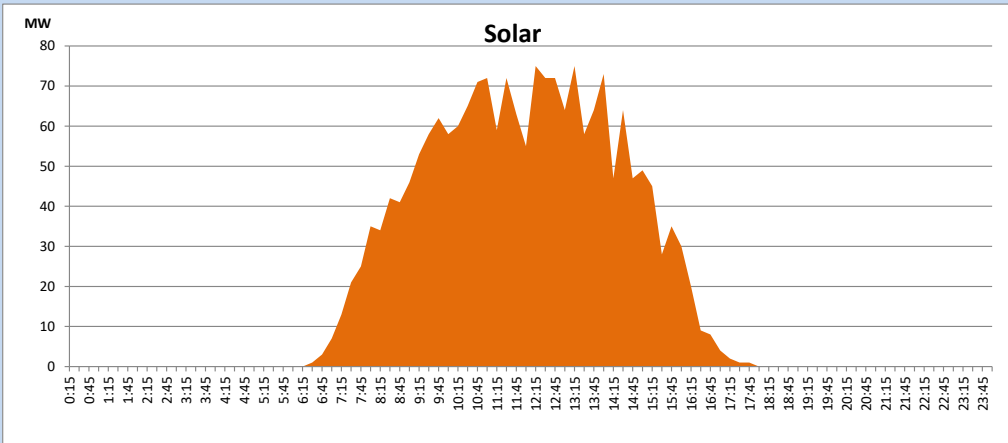
Based on Telemetered Power Stations only



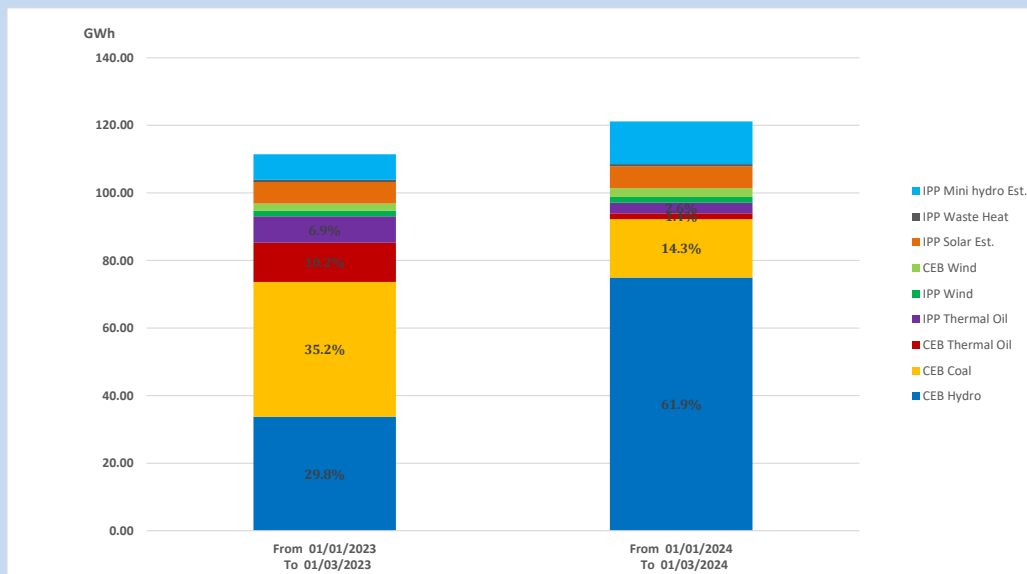
## Solar Generation during

January 3, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



### Cumulative dispatch

From 01/01/2023 To 01/03/2023

113 GWh

From 01/01/2024 To 01/03/2024

121 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 3, 2024

- 1) Old Laxapana stage-01 generator T/F tripped at 07:50hrs due to the operation of T/F differential protection along with Old Laxapana generator 01 and 03. (Old Laxapana generator 02 has been released for a planned maintenance). Old Laxapana stage-01 generators are yet to resume generation.
- 2) Victoria reservoir spilling started at 18:32hrs and stopped at 21:45hrs.
- 3) Randenigala reservoir spilled intermittently and the spilling stopped at 00:41hrs (04.01.2024).
- 4) Kerawalapitiya GSS 220/33kV T/F 02 tripped at 05:08hrs(04.01.2024) due to the operation of T/F differential protection. The T/F is yet to be energized.
- 5) Rantambe pond spilling continues to the present hour.