

# Generation and Reservoirs Statistics

January 12, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

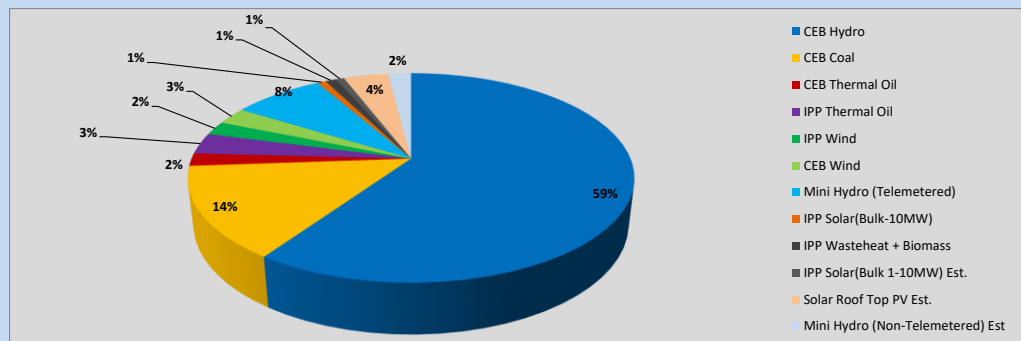


Table 01

	Generation (MWh)
CEB Hydro	25,451
CEB Coal	6,089
CEB Thermal Oil	829
IPP Thermal Oil	1,394
IPP Wind	909
CEB Wind	1,130
Mini Hydro (Telemetered)	3,370
IPP Solar (Bulk)	321
IPP Waste heat + Biomass	400
<b>Total Generation (Excluding estimated figures)</b>	<b>39,893</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	851
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
<b>Total Generation (Including estimated figures)</b>	<b>42,698</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	307	60.83%
CEB Coal	71	14.02%
CEB Thermal Oil	9	1.84%
IPP Thermal	18	3.53%
SPP Wind	7	1.34%
CEB Wind	9	1.87%
Mini Hydro *	54	10.67%
IPP Solar *	26	5.13%
IPP Waste heat + BMP	4	0.77%
<b>Total</b>	<b>504</b>	

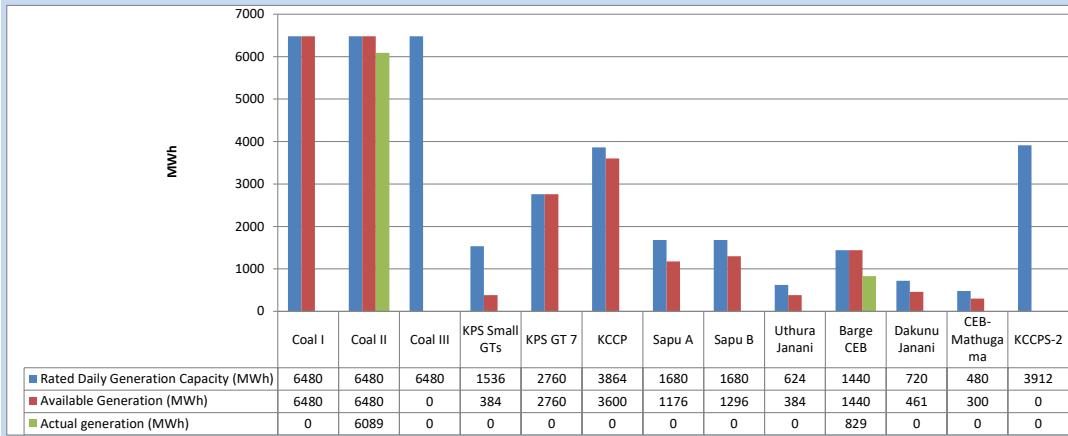
Table 04 - Current Year

Category	Dispatch (GWh)	
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CEB Coal	71	14.02%
CEB Thermal Oil	9	1.84%
IPP Thermal	18	3.53%
SPP Wind	7	1.34%
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IPP Waste heat	4	0.77%
<b>Total</b>	<b>504</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

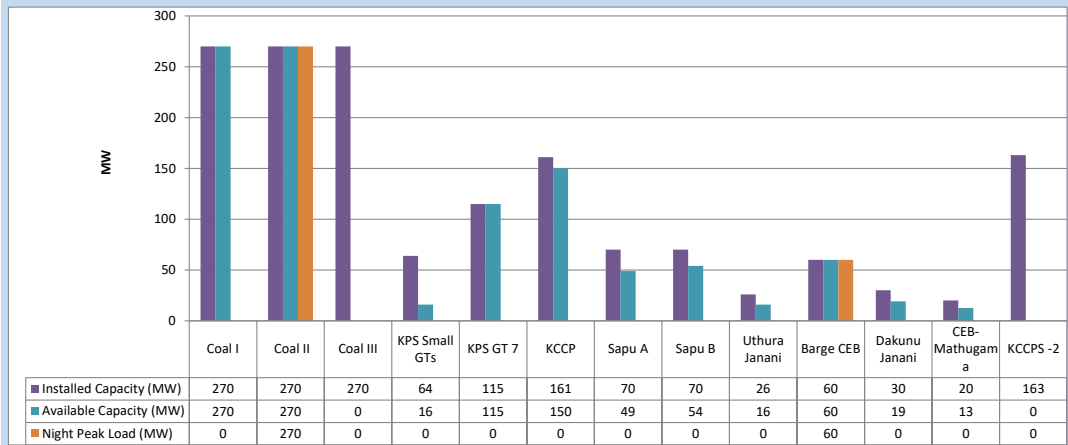
January 12, 2024



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

January 13, 2024

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

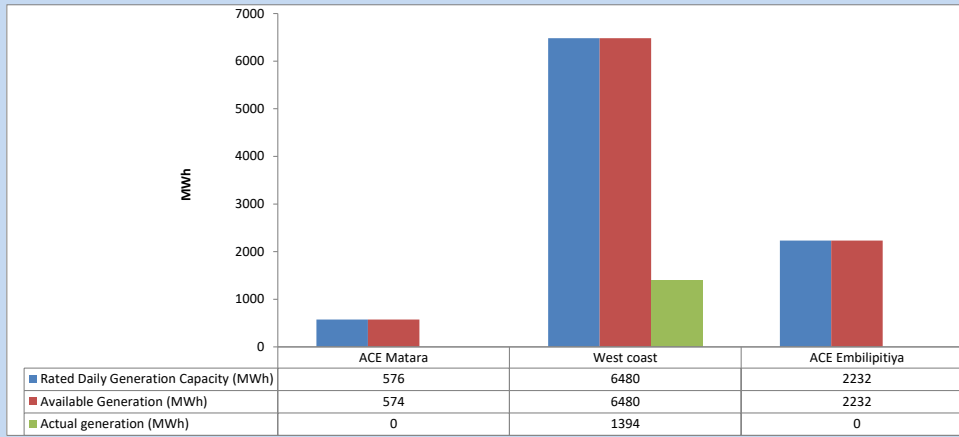


Plant availability is recorded at 6.00 am on

January 13, 2024

### 5. IPP owned Thermal Plant Dispatch

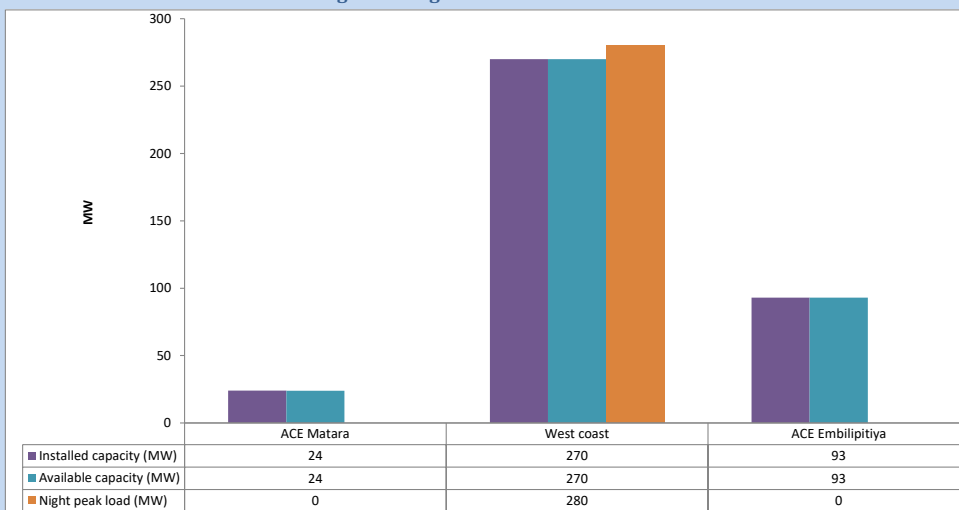
January 12, 2024



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

January 13, 2024

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

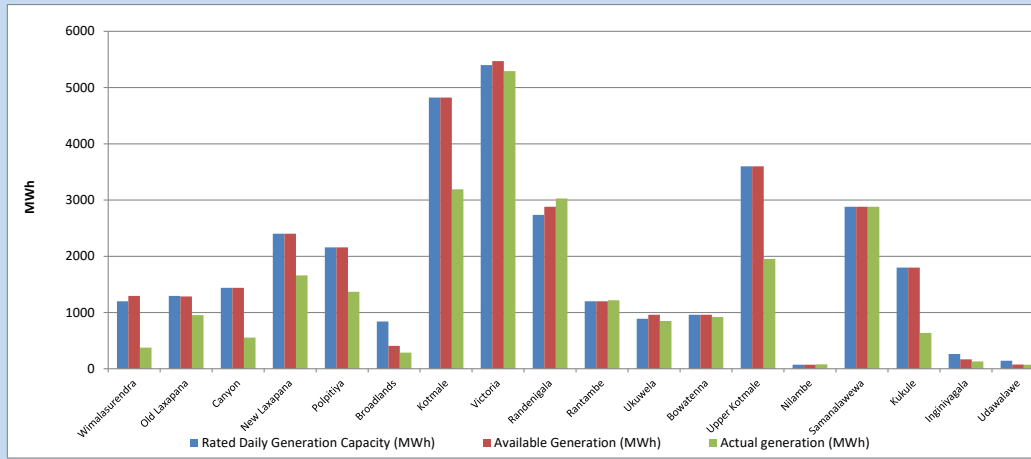


Plant availability is recorded at 6.00 am on

January 13, 2024

### 7. Major Hydro Plant Dispatch

January 12, 2024

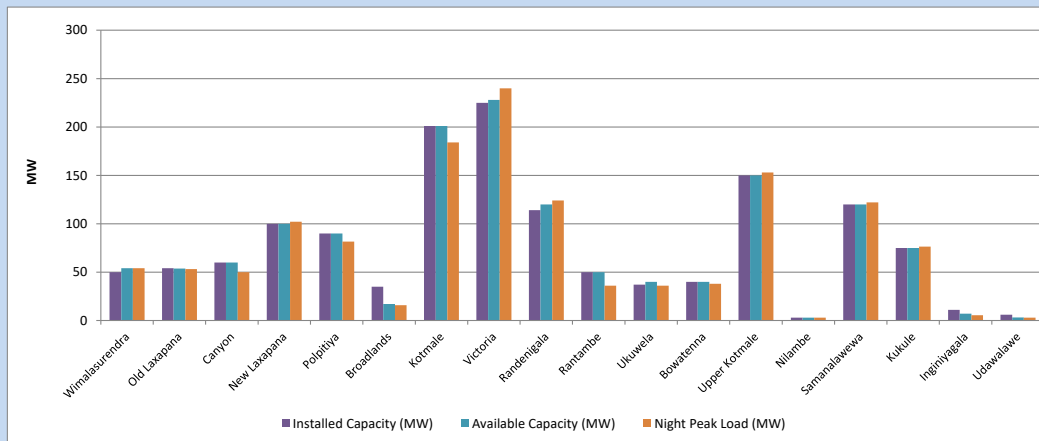


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

January 13, 2024

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

January 12, 2024



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

January 13, 2024

## 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	375
Old Laxapana	54	54	53	953
Canyon	60	60	50	553
New Laxapana	100	100	102	1,662
Polpitiya	90	90	82	1,370
Broadlands	35	17	16	287
Kotmale	201	201	184	3,190
Victoria	225	228	240	5,292
Randenigala	114	120	124	3,028
Rantambe	50	50	36	1,219
Ukuwela	37	40	36	850
Bowatenna	40	40	38	921
Upper Kotmale	150	150	153	1,952
Nilambe	3	3	3	78
Samanalawewa	120	120	122	2,882
Kukule	75	75	76	637
Inginiyagala	11	7	6	129
Udawalawe	6	3	3	73
Puttalam Coal I	270	270	0	0
Puttalam Coal II	270	270	270	6,089
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	0	0
Barge CEB	60	60	60	829
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	270	280	1,394
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,830	2,205	39,893

Plant availability is the availability recorded at 6 am on

January 13, 2024

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

January 12, 2024

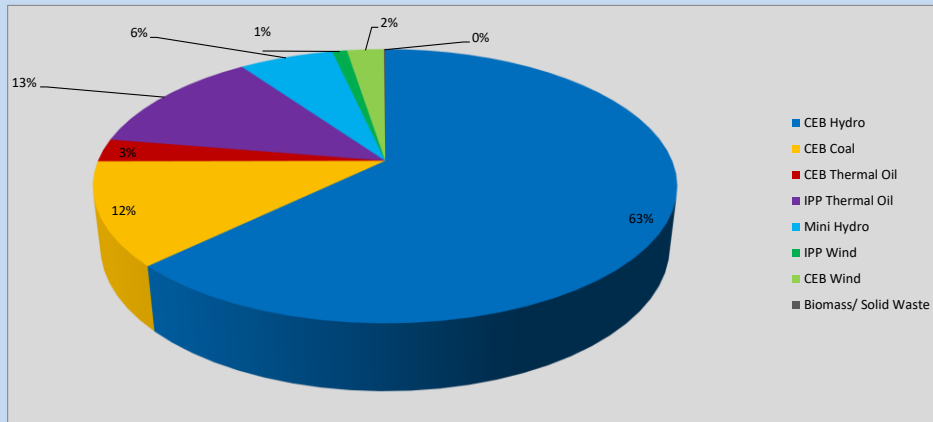


Table 06

CEB Hydro	1396	MW
CEB Coal	270	MW
CEB Thermal Oil	60	MW
IPP Thermal Oil	280	MW
Mini Hydro (Telemetered)	139	MW
IPP Wind	21.9	MW
CEB Wind	54.2	MW
Biomass/ Solid Waste	2	MW

### Recorded Peak Demand Data

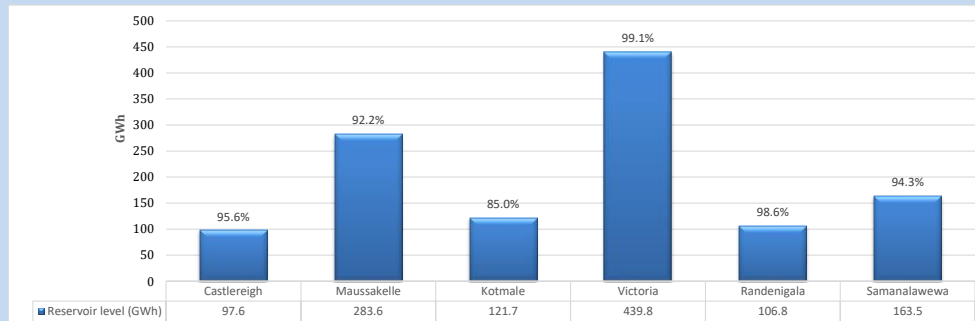
Table 07

Night Peak*	2,223	MW
Day Peak Maximum Demand	1,971	MW
Day Peak Minimum Demand	1,586	MW
Off Peak Minimum Demand	1,194	MW

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

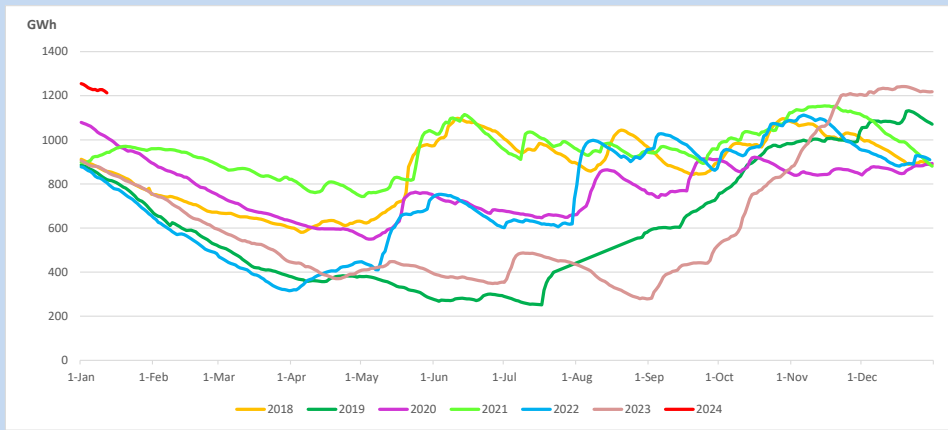
### Reservoir Levels -

as at 06.00 Hr on January 13, 2024

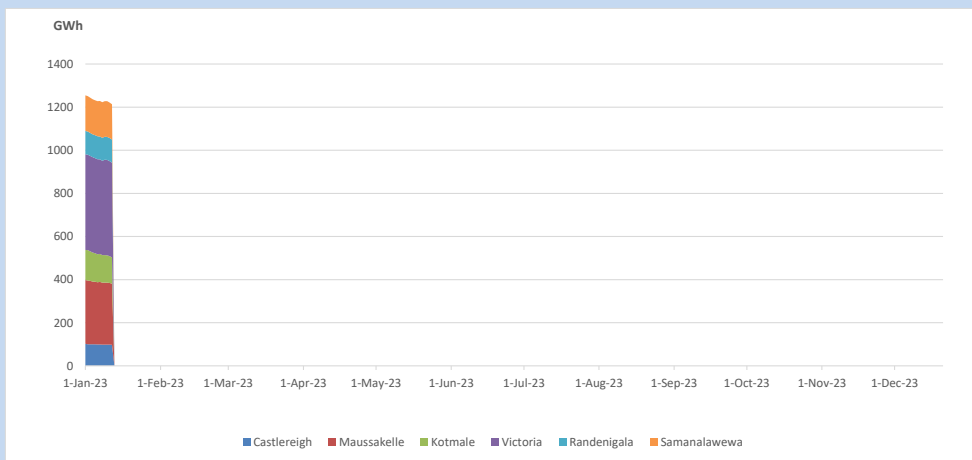


Total Reservoir Level 1213 GWh  
% of Total capacity 94.9%

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

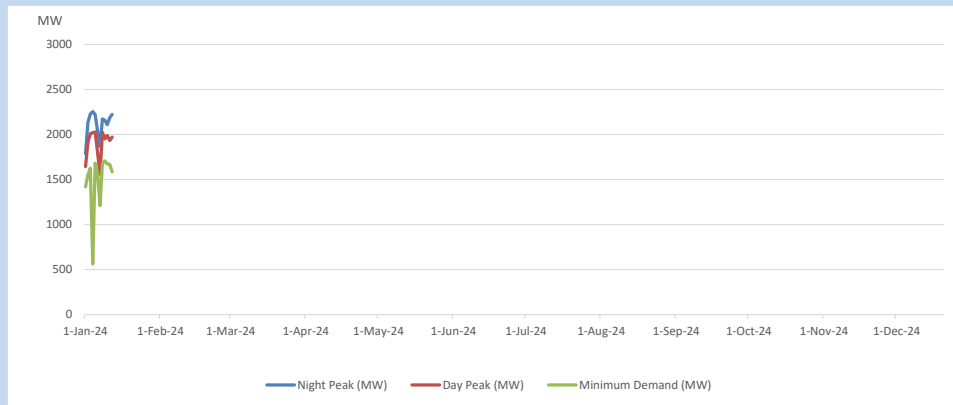


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





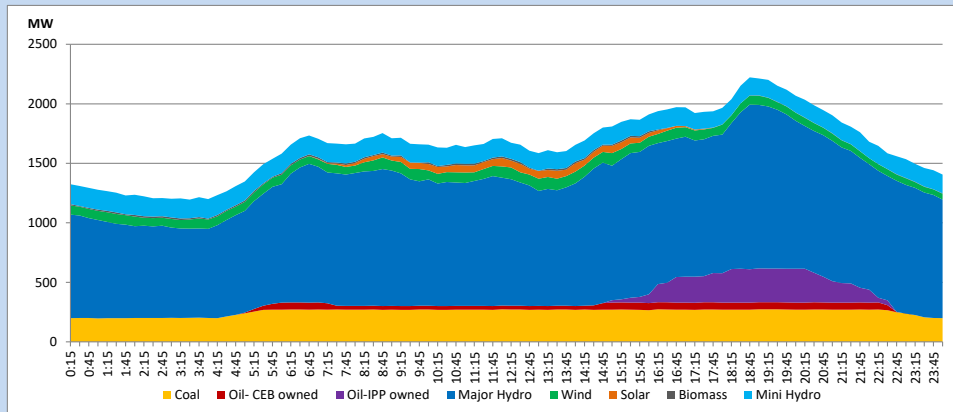
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

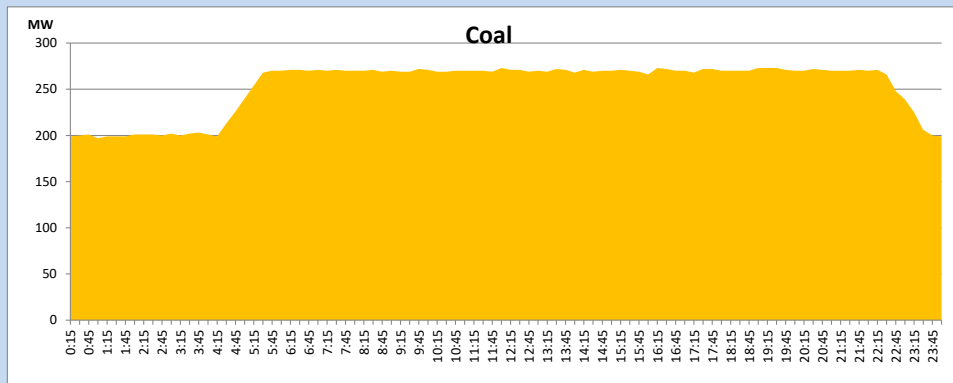
January 12, 2024



Solar and wind data is based on Telemetered Power Stations only

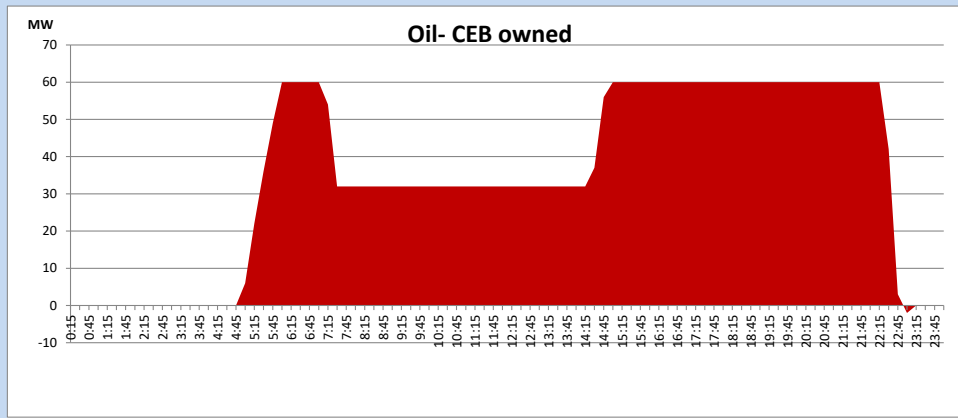
### Coal Generation during

January 12, 2024



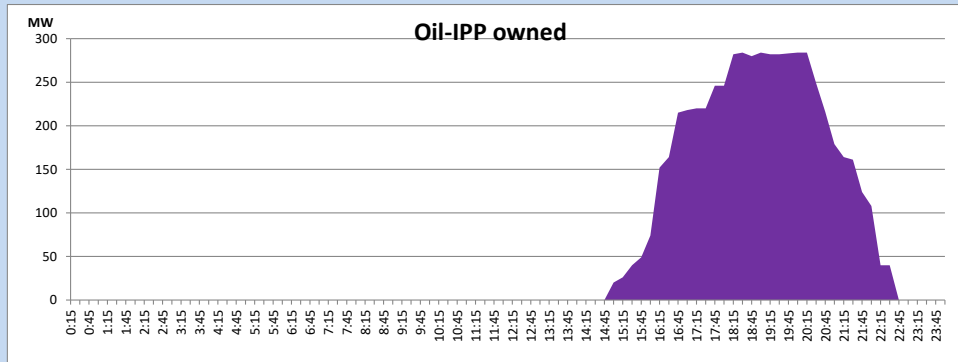
CEB Oil Plant Generation during

January 12, 2024



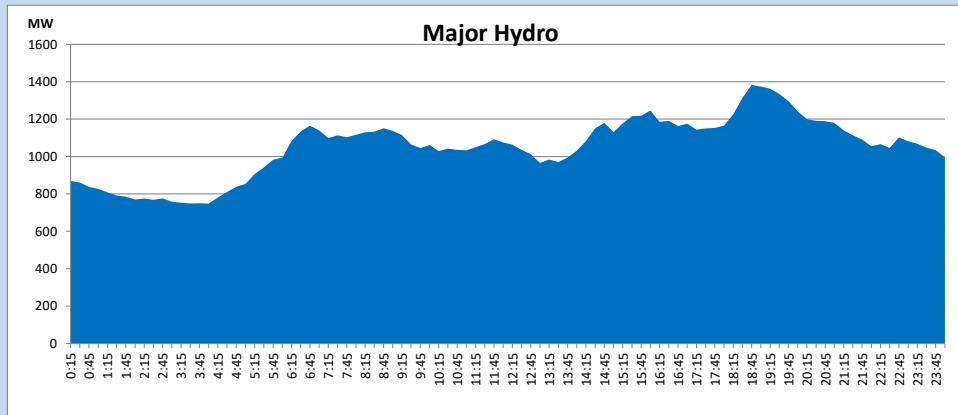
IPP Oil Plant Generation during

January 12, 2024



Major Hydro Generation during

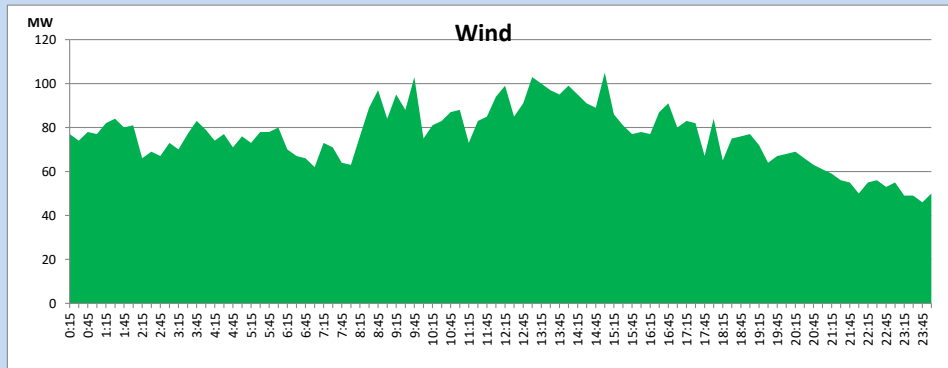
January 12, 2024



## Wind Generation during

January 12, 2024

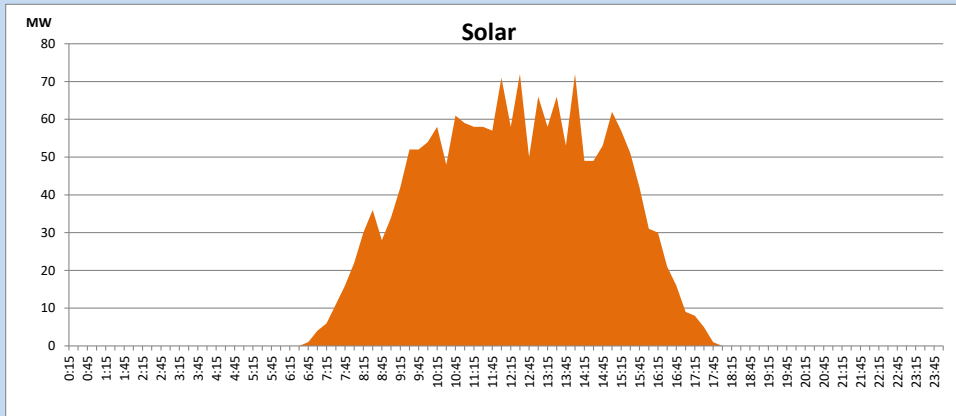
Based on Telemetered Power Stations only



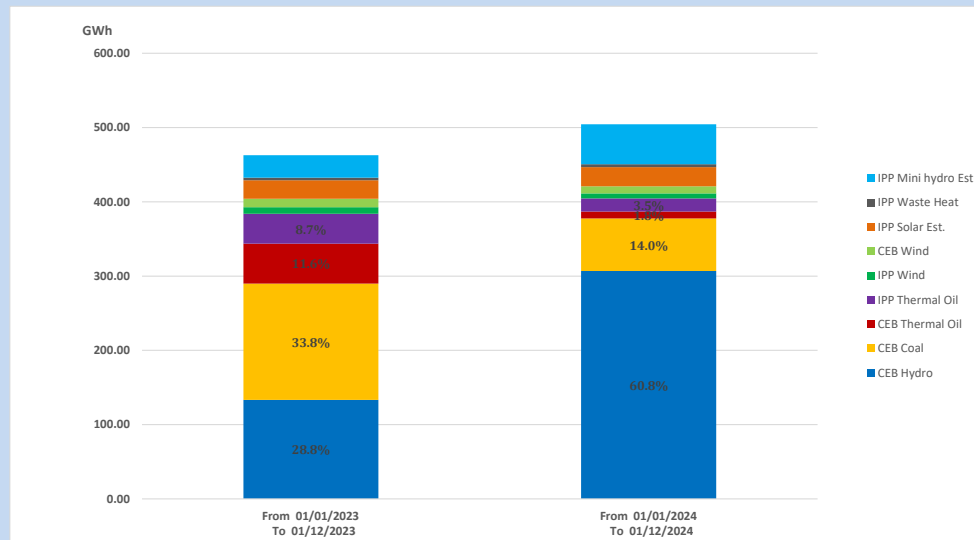
## Solar Generation during

January 12, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
From 01/01/2023 To 01/12/2023  
From 01/01/2024 To 01/12/2024

463 GWh  
504 GWh

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

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 12, 2024

- 1) Rantambe pond spilled intermittently and the spilling continues to the present hour