

# Generation and Reservoirs Statistics

January 23, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

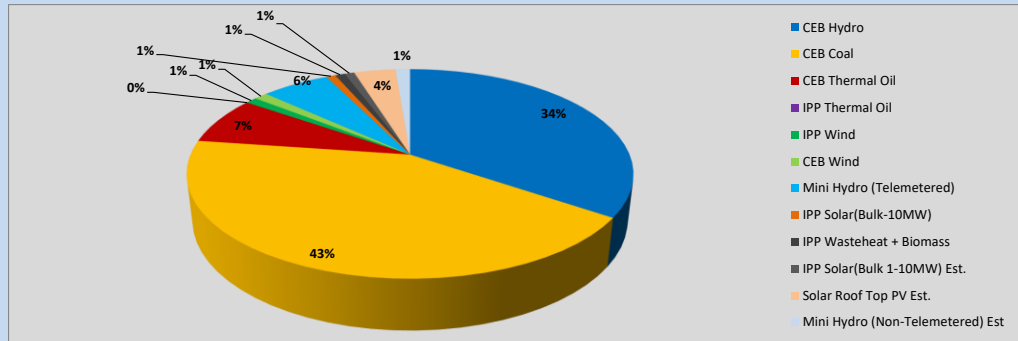


Table 01

	Generation (MWh)
CEB Hydro	15,762
CEB Coal	19,558
CEB Thermal Oil	3,385
IPP Thermal Oil	-
IPP Wind	451
CEB Wind	534
Mini Hydro (Telemetered)	2,686
IPP Solar (Bulk)	368
IPP Waste heat + Biomass	385
<b>Total Generation (Excluding estimated figures)</b>	<b>43,129</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	572
* Estimated IPP Solar PV (Bulk 1-10MW)	385
* Estimated Solar Roof Top PV	1650
<b>Total Generation (Including estimated figures)</b>	<b>45,736</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	531	55.45%
CEB Coal	172	18.01%
CEB Thermal Oil	30	3.17%
IPP Thermal	42	4.43%
SPP Wind	12	1.22%
CEB Wind	15	1.60%
Mini Hydro *	95	9.96%
IPP Solar *	51	5.33%
IPP Waste heat + BMP	8	0.83%
<b>Total</b>	<b>958</b>	

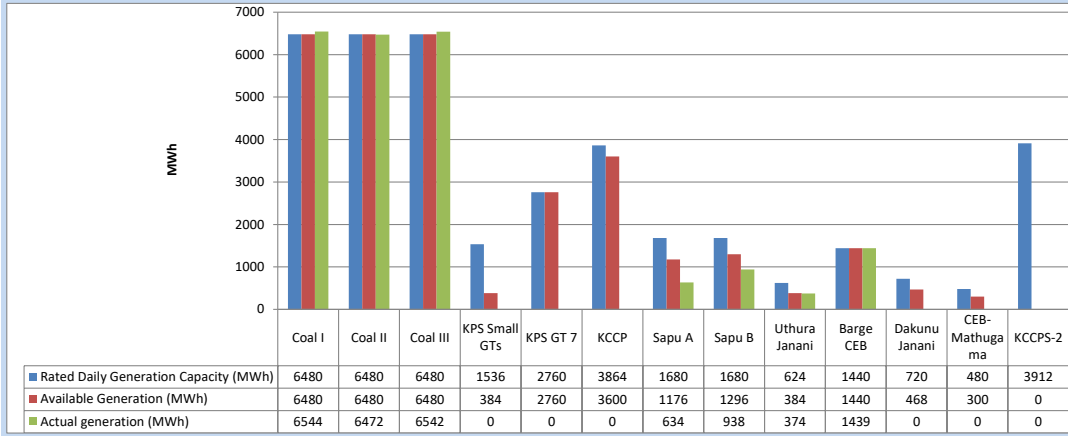
Table 04 - Current Year

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CEB Coal	172	18.01%
CEB Thermal Oil	30	3.17%
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<b>Total</b>	<b>958</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

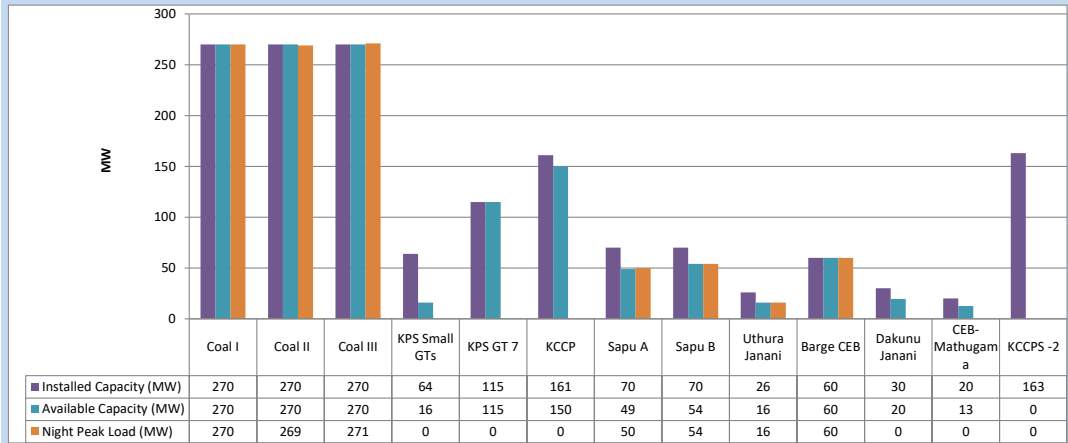
January 23, 2024



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

January 24, 2024

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

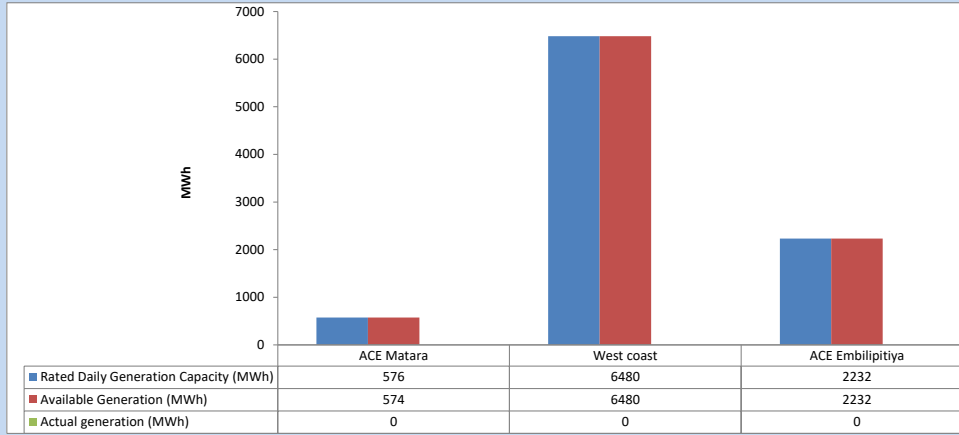


Plant availability is recorded at 6.00 am on

January 24, 2024

### 5. IPP owned Thermal Plant Dispatch

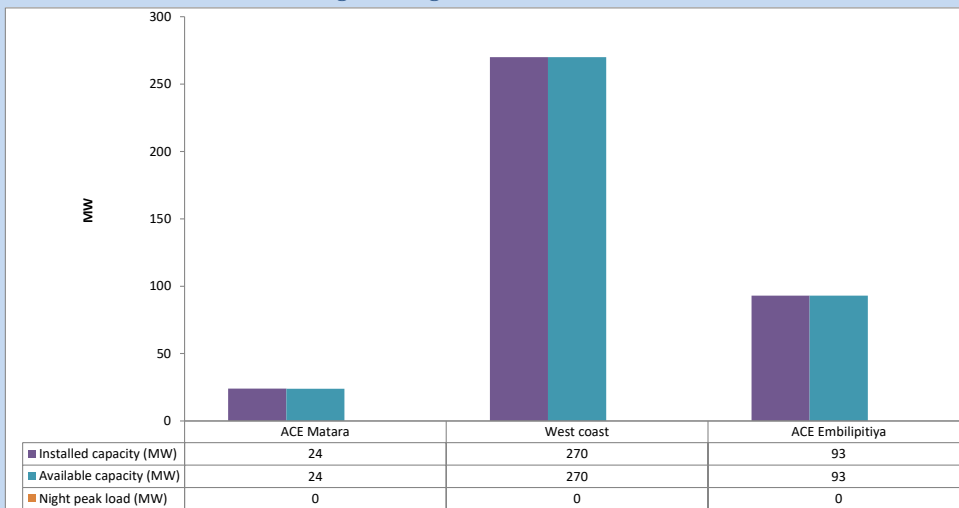
January 23, 2024



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

January 24, 2024

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

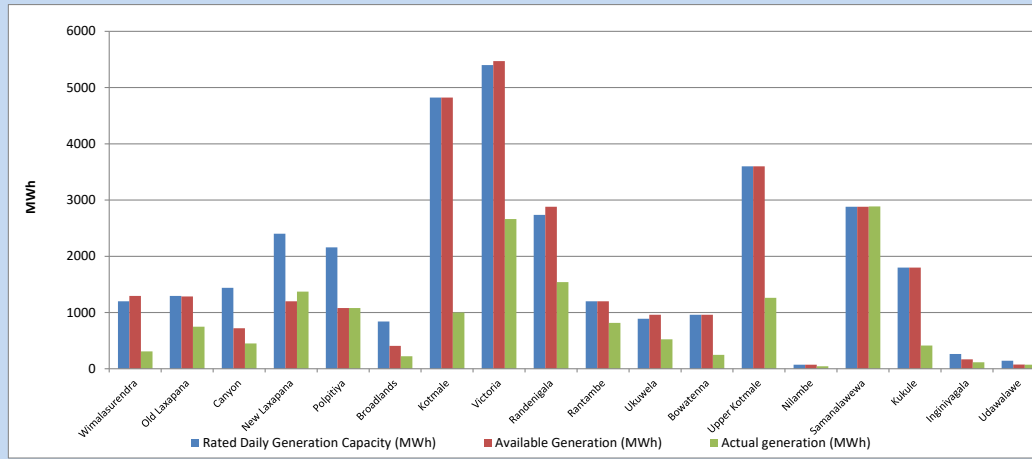


Plant availability is recorded at 6.00 am on

January 24, 2024

## 7. Major Hydro Plant Dispatch

January 23, 2024

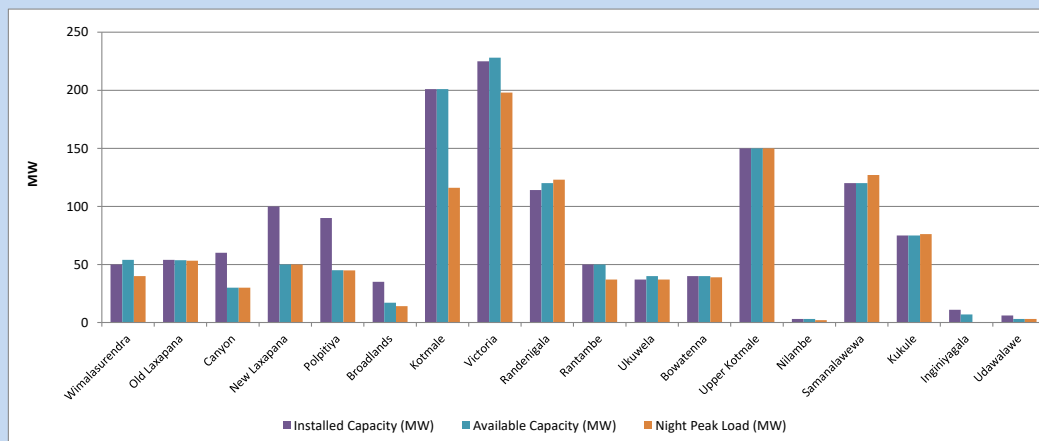


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

January 24, 2024

## 8. Major Hydro Plant Loading at Night Peak

January 23, 2024



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

January 24, 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	40	308
Old Laxapana	54	54	53	748
Canyon	60	30	30	450
New Laxapana	100	50	50	1,373
Polpitiya	90	45	45	1,080
Broadlands	35	17	14	222
Kotmale	201	201	116	1,000
Victoria	225	228	198	2,661
Randenigala	114	120	123	1,541
Rantambe	50	50	37	817
Ukuwela	37	40	37	523
Bowatenna	40	40	39	247
Upper Kotmale	150	150	150	1,261
Nilambe	3	3	2	44
Samanalawewa	120	120	127	2,887
Kukule	75	75	76	414
Inginiyagala	11	7	0	114
Udawalawe	6	3	3	72
Puttalam Coal I	270	270	270	6,544
Puttalam Coal II	270	270	269	6,472
Puttalam Coal III	270	270	271	6,542
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	49	50	634
Sapugaskanda B	70	54	54	938
Uthura Janani	26	16	16	374
Barge CEB	60	60	60	1,439
CEB-Hambantota	30	20	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	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,976	2,313	43,129

Plant availability is the availability recorded at 6 am on

January 24, 2024

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

January 23, 2024

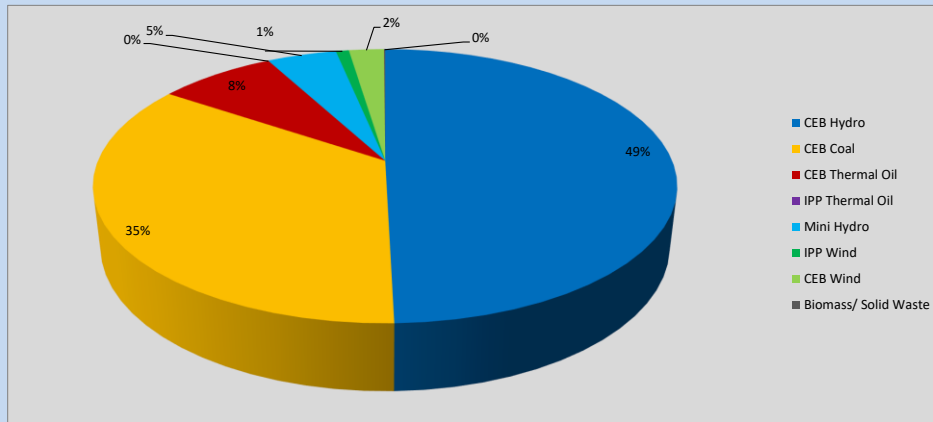


Table 06

CEB Hydro	1154	MW
CEB Coal	810	MW
CEB Thermal Oil	180	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	107	MW
IPP Wind	20.1	MW
CEB Wind	53.9	MW
Biomass/ Solid Waste	2	MW

### Recorded Peak Demand Data

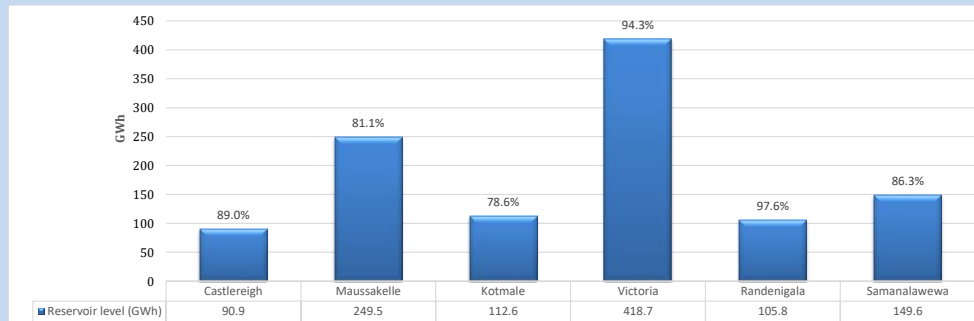
Table 07

Night Peak*	2,327	MW
Day Peak Maximum Demand	2,115	MW
Day Peak Minimum Demand	1,753	MW
Off Peak Minimum Demand	1,343	MW

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

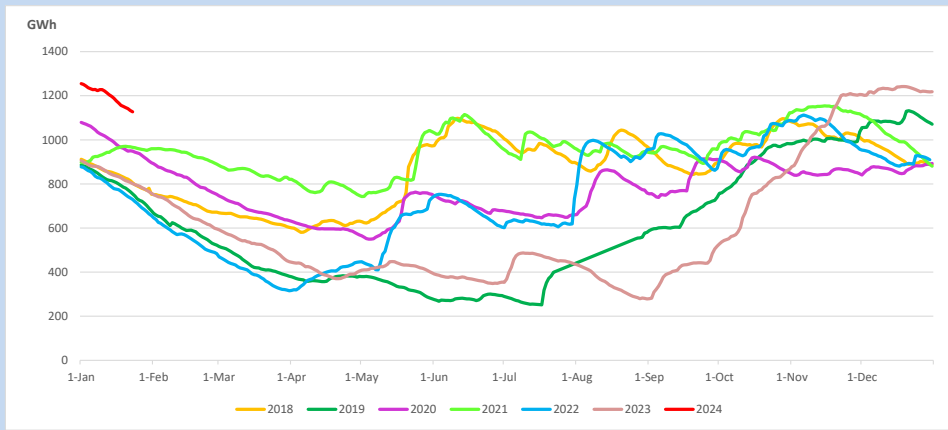
### Reservoir Levels -

as at 06.00 Hr on January 24, 2024

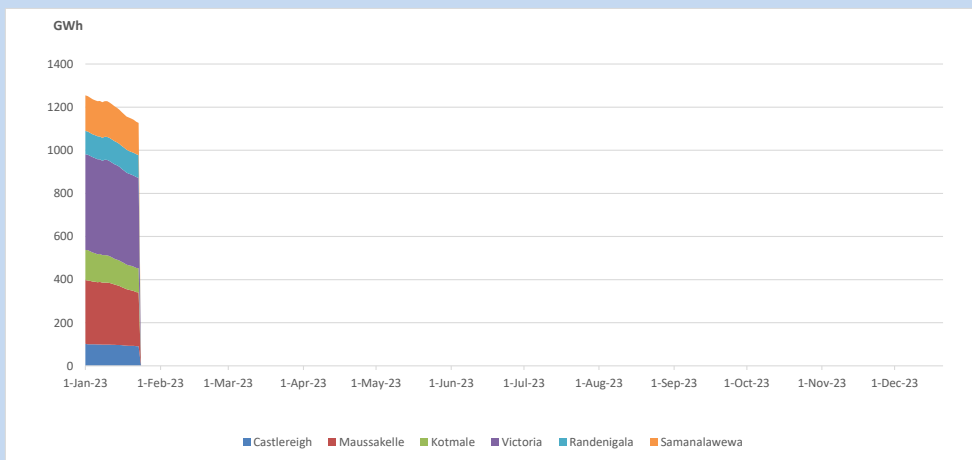


Total Reservoir Level 1127.1 GWh  
% of Total capacity 88.1%

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

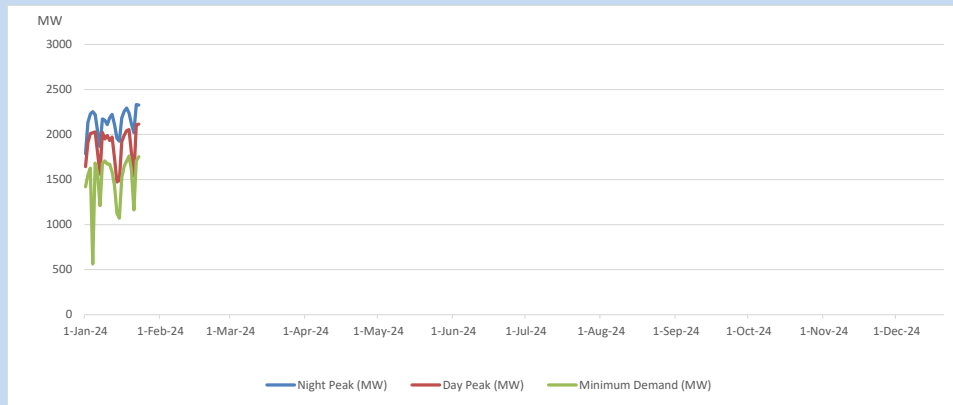


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





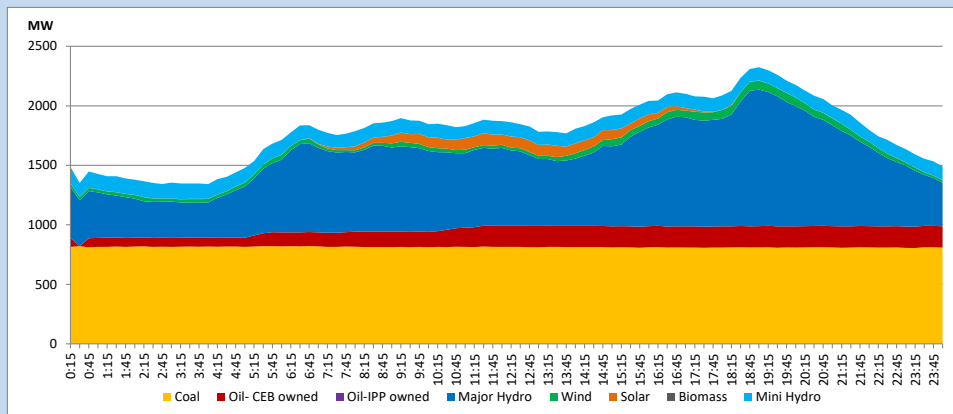
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

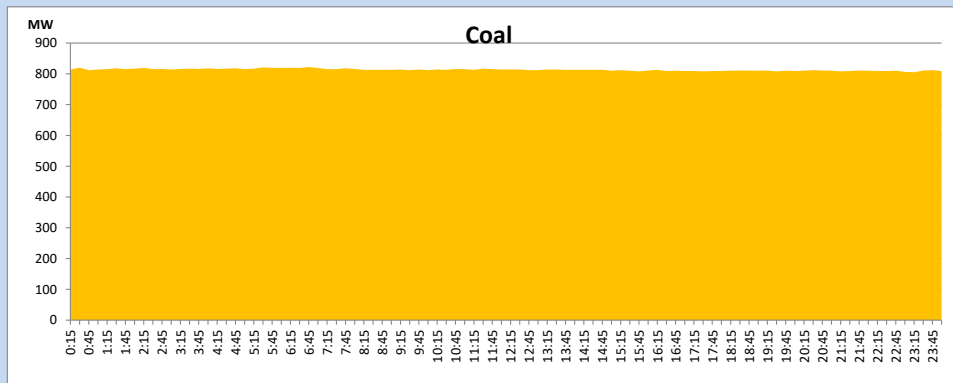
January 23, 2024



Solar and wind data is based on Telemetered Power Stations only

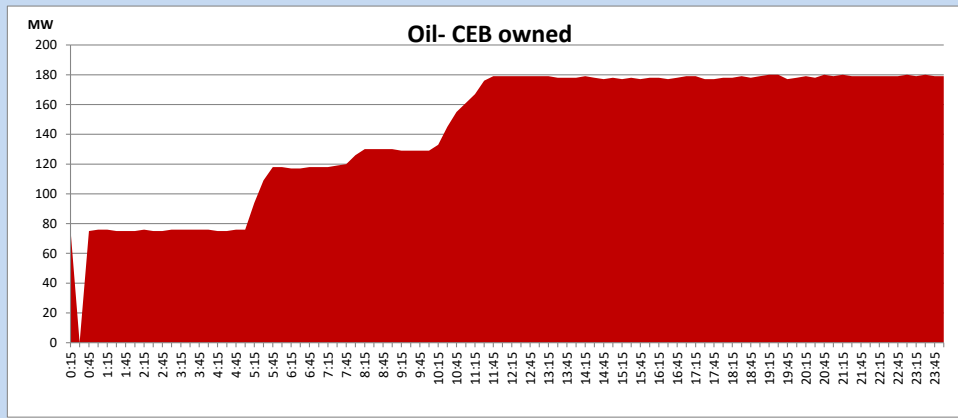
### Coal Generation during

January 23, 2024



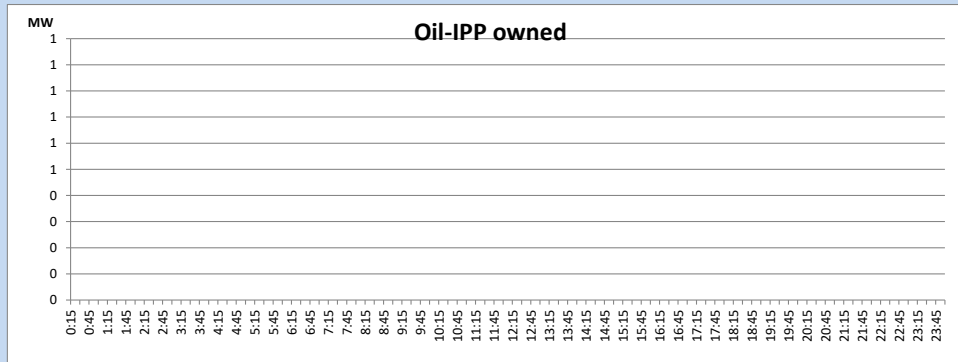
CEB Oil Plant Generation during

January 23, 2024



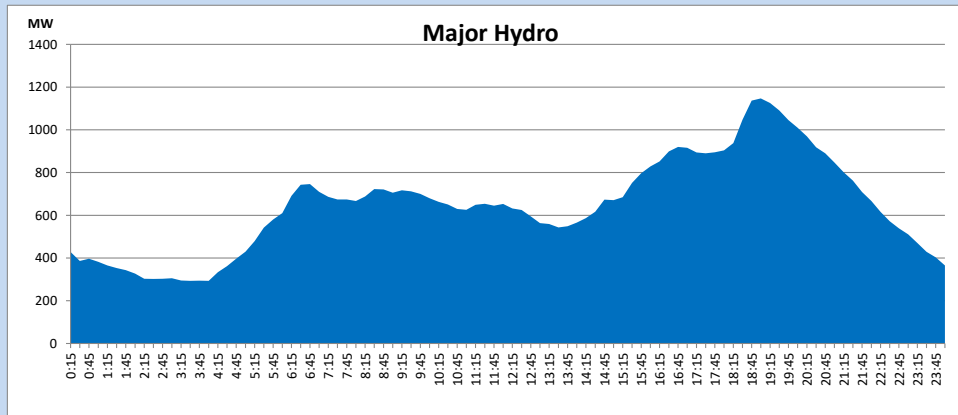
IPP Oil Plant Generation during

January 23, 2024



Major Hydro Generation during

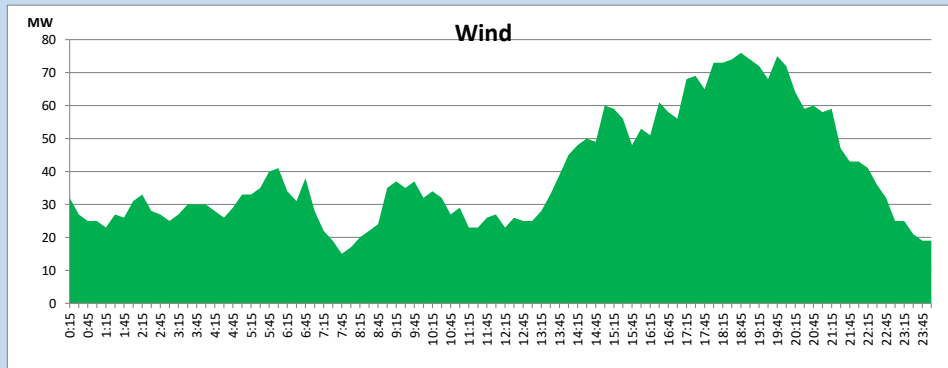
January 23, 2024



## Wind Generation during

January 23, 2024

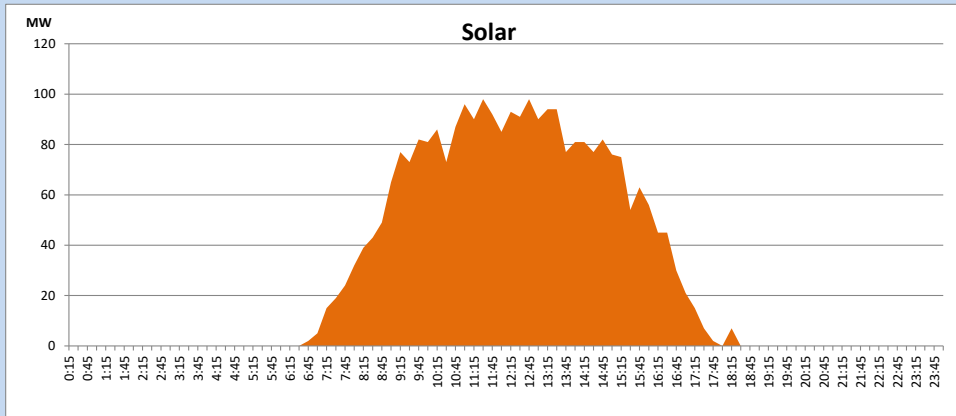
Based on Telemetered Power Stations only



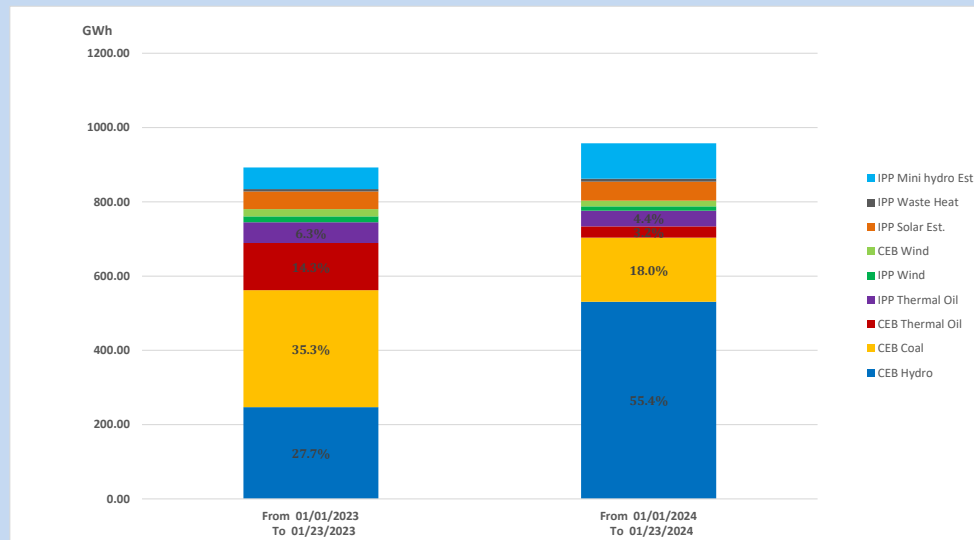
## Solar Generation during

January 23, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
 From 01/01/2023 To 01/23/2023  
 From 01/01/2024 To 01/23/2024

892 GWh  
 958 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 23, 2024

- 1) Badulla- Uma Oya 132kV cct which tripped on 20.01.2024 was normalized at 19:00hrs
- 2) Embilipitiya-ACE Embilipitiya 132kV cct 01 tripped from both ends at 20:06hrs due to the operation of differential protection. The cct is yet to be normalized.