

# Generation and Reservoirs Statistics

January 13, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

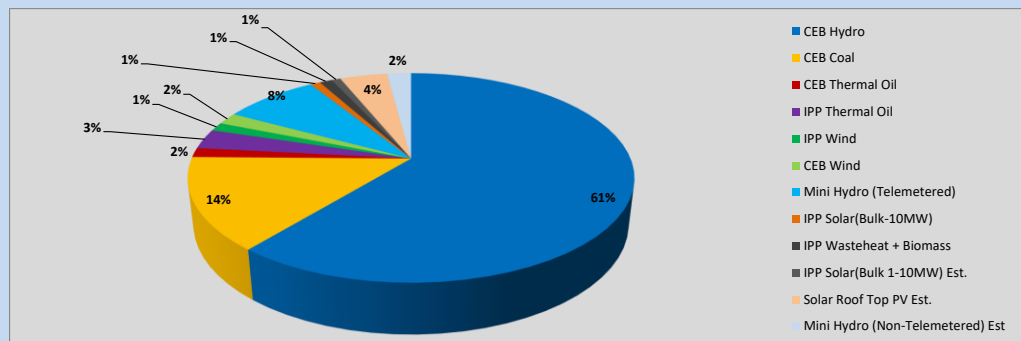


Table 01

	Generation (MWh)
CEB Hydro	24,530
CEB Coal	5,750
CEB Thermal Oil	583
IPP Thermal Oil	1,229
IPP Wind	530
CEB Wind	734
Mini Hydro (Telemetered)	3,305
IPP Solar (Bulk)	346
IPP Waste heat + Biomass	432
<b>Total Generation (Excluding estimated figures)</b>	<b>37,439</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	835
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
<b>Total Generation (Including estimated figures)</b>	<b>40,228</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	331	60.84%
CEB Coal	76	14.04%
CEB Thermal Oil	10	1.81%
IPP Thermal	19	3.49%
SPP Wind	7	1.33%
CEB Wind	10	1.87%
Mini Hydro *	58	10.64%
IPP Solar *	28	5.18%
IPP Waste heat + BMP	4	0.79%
<b>Total</b>	<b>545</b>	

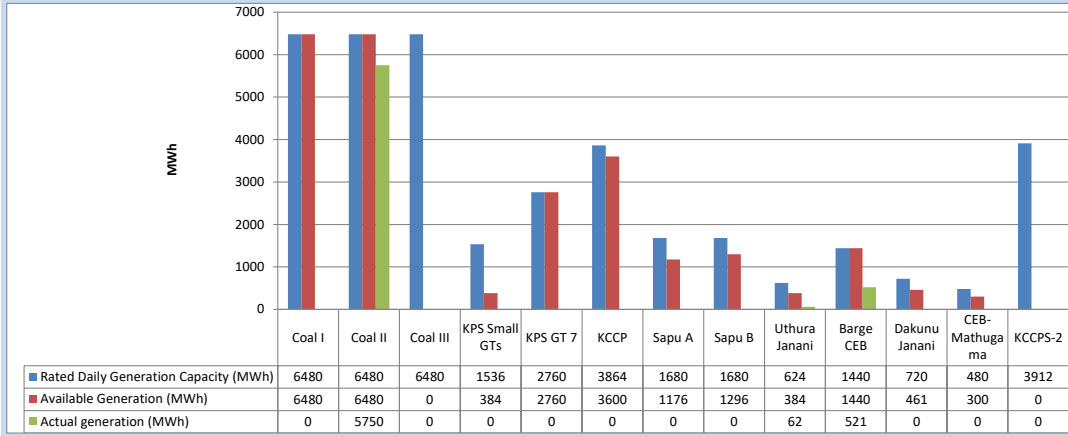
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	331	60.84%
CEB Coal	76	14.04%
CEB Thermal Oil	10	1.81%
IPP Thermal	19	3.49%
SPP Wind	7	1.33%
CEB Wind	10	1.87%
Mini Hydro *	58	10.64%
IPP Solar *	28	5.18%
IPP Waste heat	4	0.79%
<b>Total</b>	<b>545</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

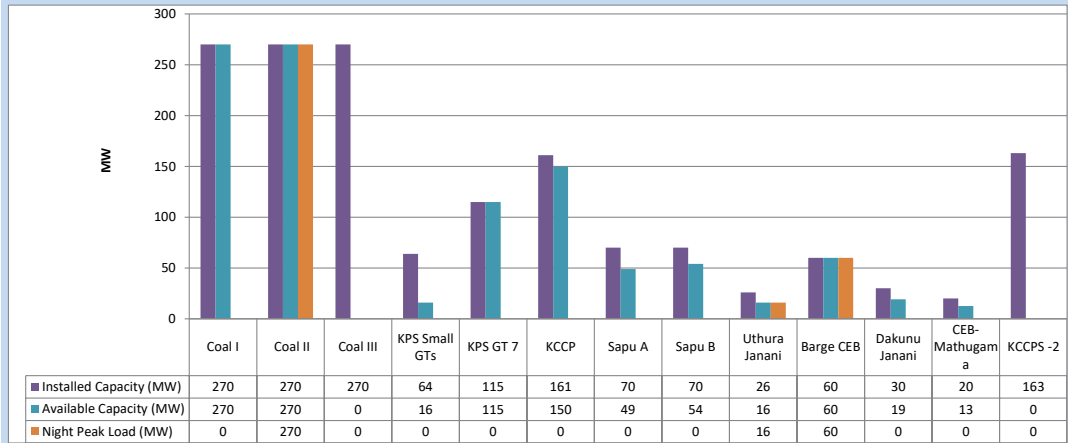
January 13, 2024



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

January 14, 2024

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

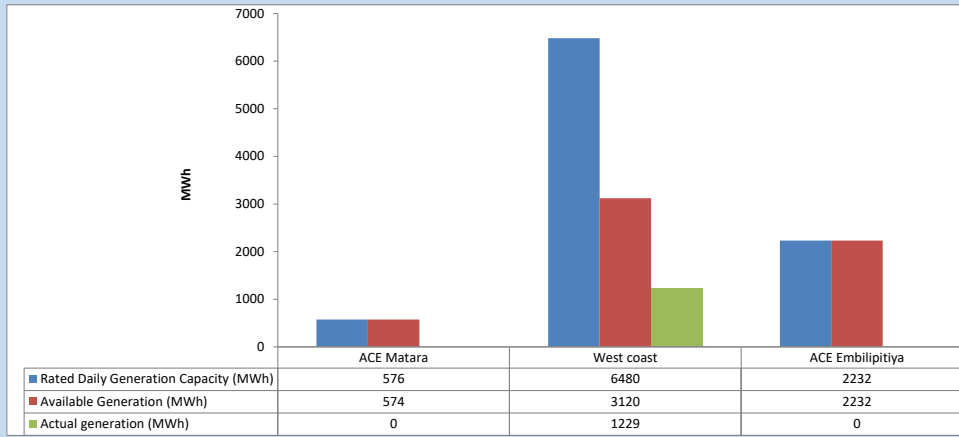


Plant availability is recorded at 6.00 am on

January 14, 2024

### 5. IPP owned Thermal Plant Dispatch

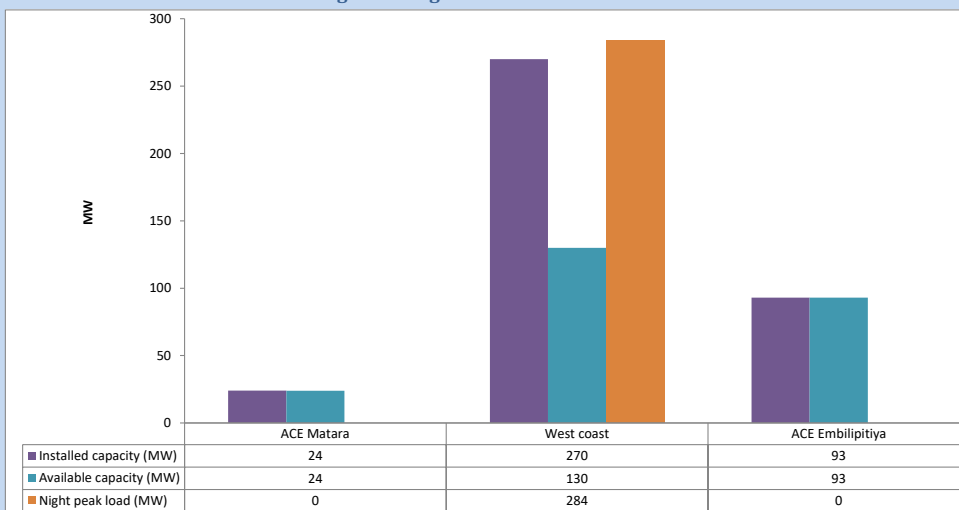
January 13, 2024



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

January 14, 2024

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

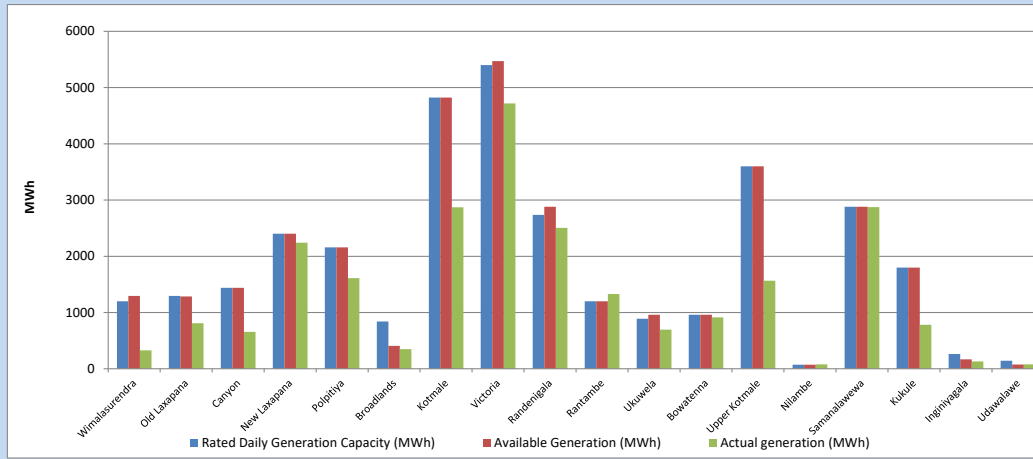


Plant availability is recorded at 6.00 am on

January 14, 2024

### 7. Major Hydro Plant Dispatch

January 13, 2024

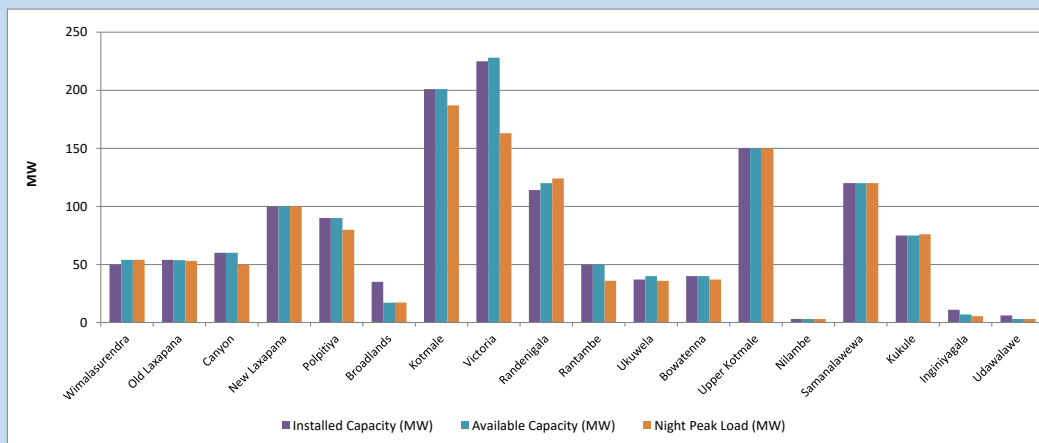


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

January 14, 2024

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

January 13, 2024



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

January 14, 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	327
Old Laxapana	54	54	53	811
Canyon	60	60	50	655
New Laxapana	100	100	100	2,241
Polpitiya	90	90	80	1,610
Broadlands	35	17	17	349
Kotmale	201	201	187	2,870
Victoria	225	228	163	4,719
Randenigala	114	120	124	2,505
Rantambe	50	50	36	1,328
Ukuwela	37	40	36	695
Bowatenna	40	40	37	915
Upper Kotmale	150	150	150	1,564
Nilambe	3	3	3	79
Samanalawewa	120	120	120	2,874
Kukule	75	75	76	781
Inginiyagala	11	7	6	129
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	0	0
Puttalam Coal II	270	270	270	5,750
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	62
Barge CEB	60	60	60	521
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	130	284	1,229
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,690	2,092	37,439

Plant availability is the availability recorded at 6 am on

January 14, 2024

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

January 13, 2024

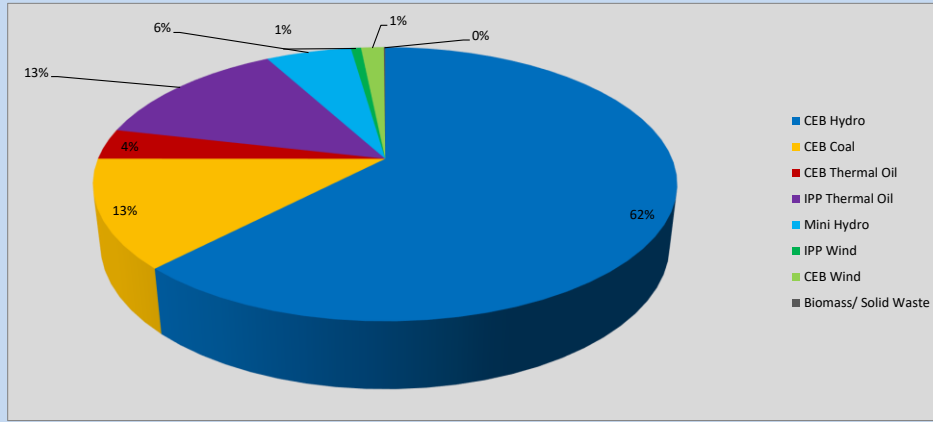


Table 06

CEB Hydro	1314	MW
CEB Coal	270	MW
CEB Thermal Oil	76	MW
IPP Thermal Oil	284	MW
Mini Hydro (Telemetered)	120	MW
IPP Wind	14.1	MW
CEB Wind	31.8	MW
Biomass/ Solid Waste	2	MW

### Recorded Peak Demand Data

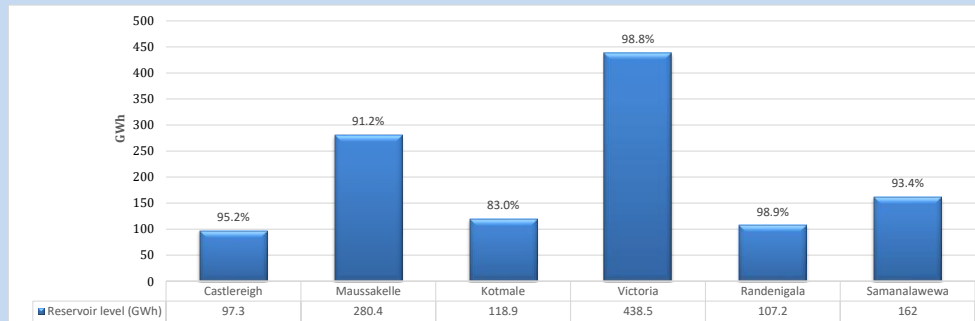
Table 07

Night Peak*	2,111	MW
Day Peak Maximum Demand	1,734	MW
Day Peak Minimum Demand	1,431	MW
Off Peak Minimum Demand	1,209	MW

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

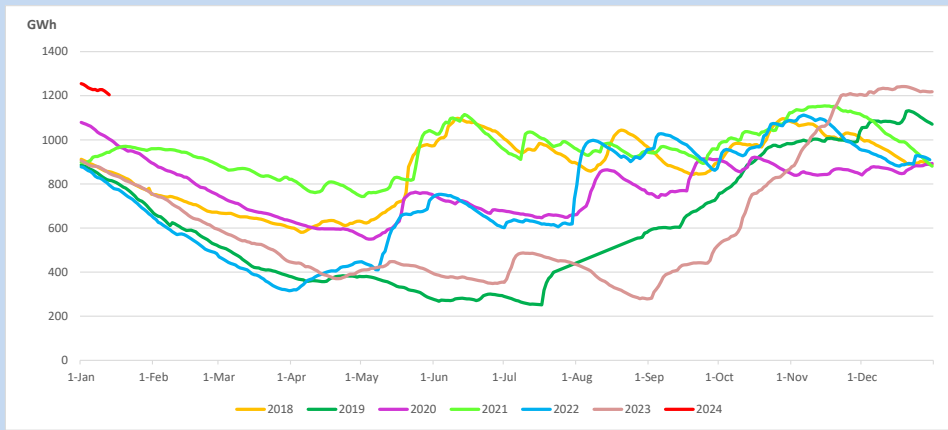
### Reservoir Levels -

as at 06.00 Hr on January 14, 2024

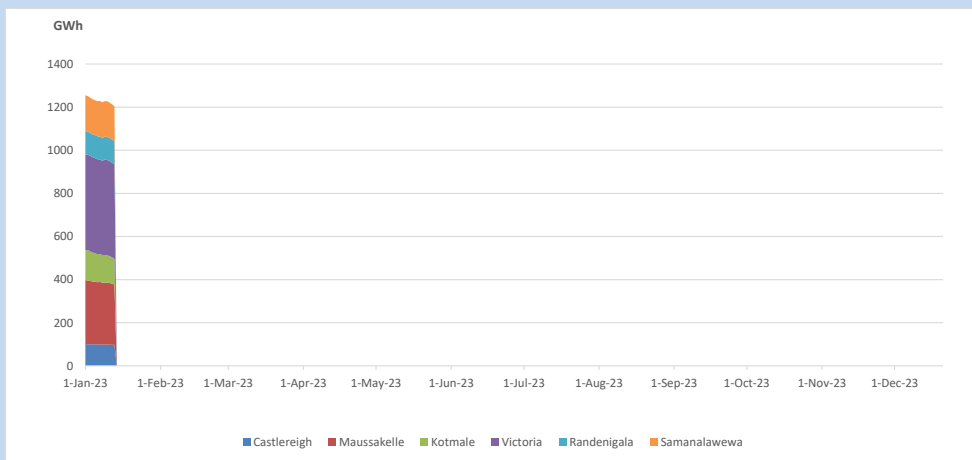


Total Reservoir Level 1204.3 GWh  
% of Total capacity 94.2%

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

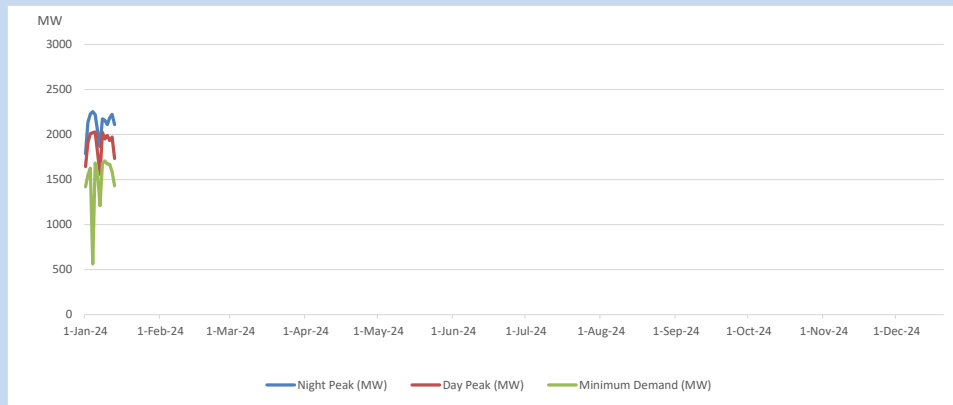


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





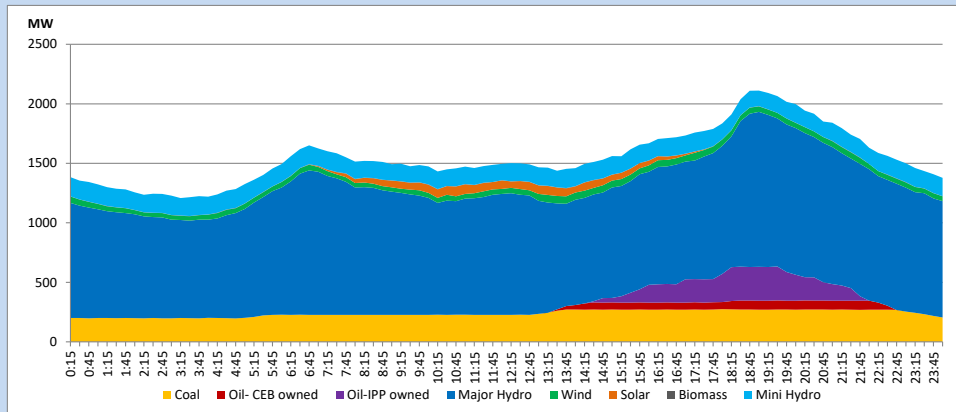
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

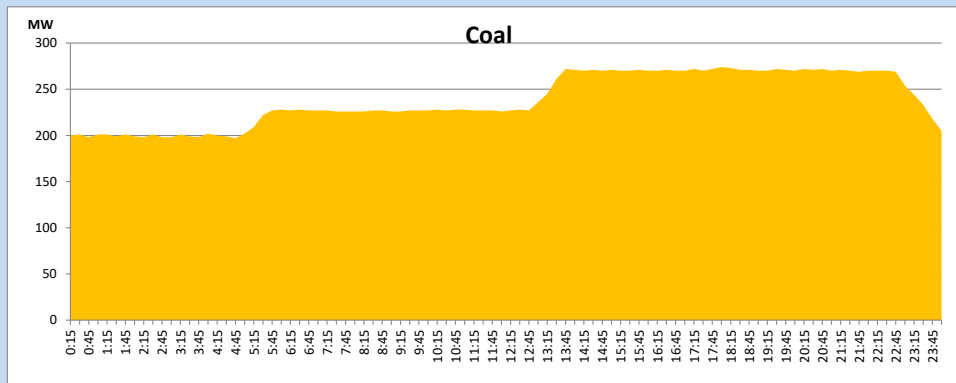
January 13, 2024



Solar and wind data is based on Telemetered Power Stations only

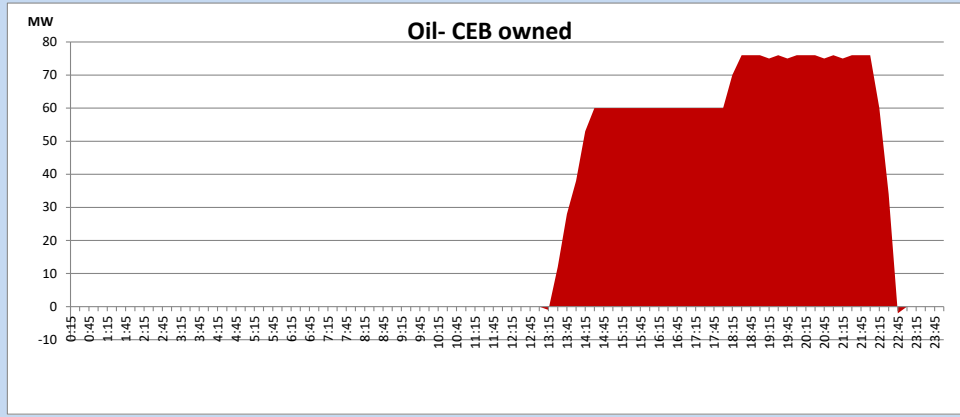
### Coal Generation during

January 13, 2024



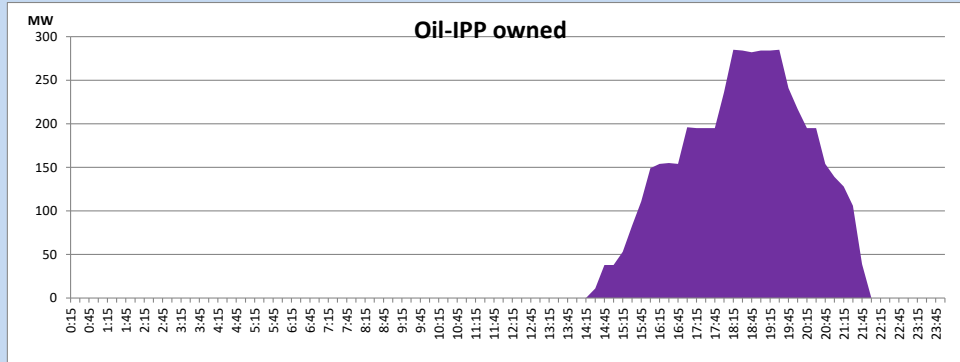
CEB Oil Plant Generation during

January 13, 2024



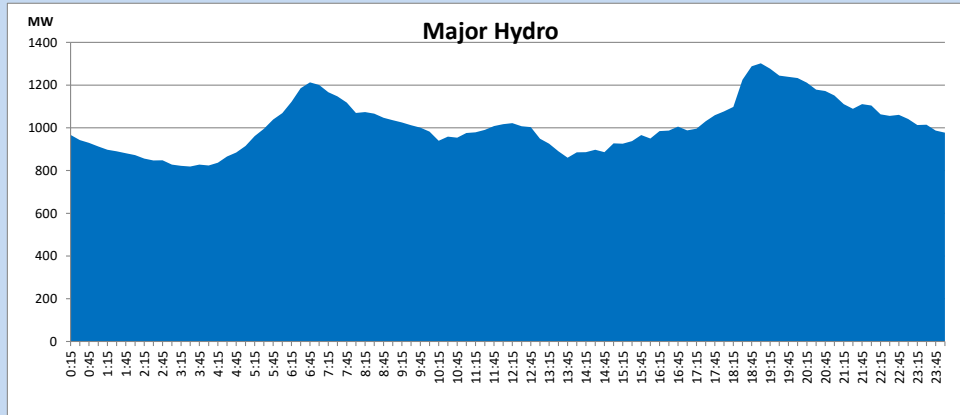
IPP Oil Plant Generation during

January 13, 2024



Major Hydro Generation during

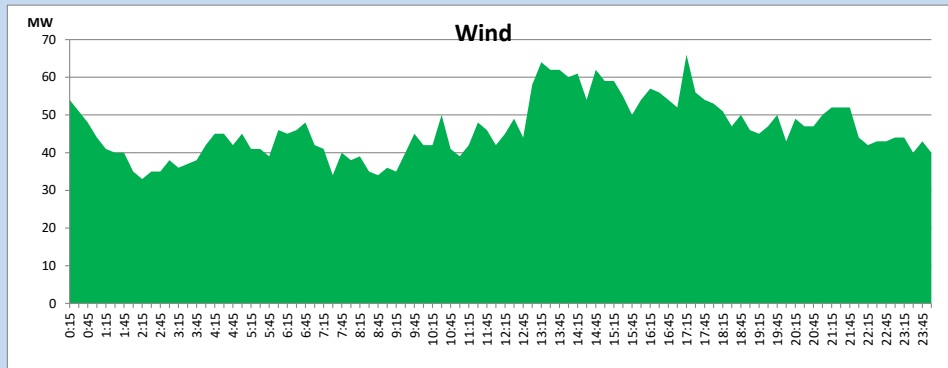
January 13, 2024



## Wind Generation during

January 13, 2024

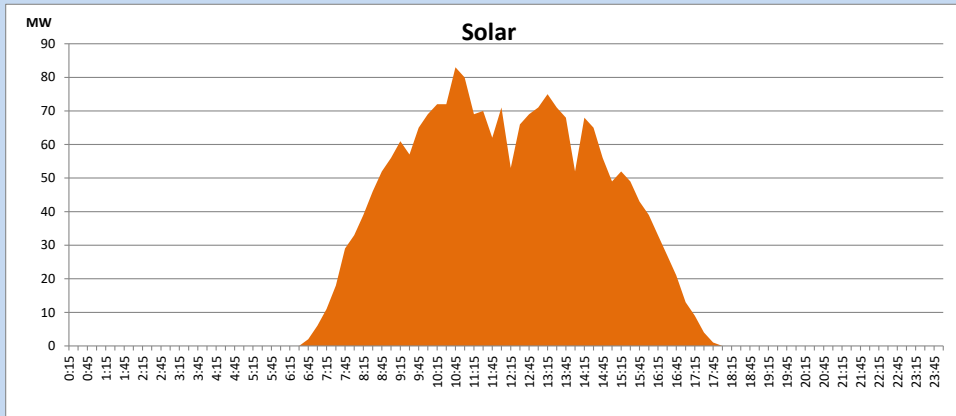
Based on Telemetered Power Stations only



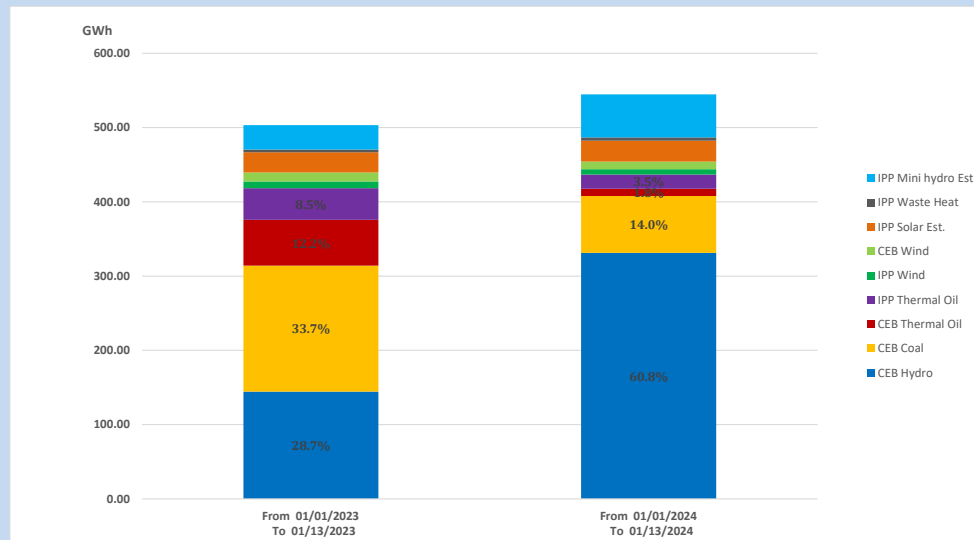
## Solar Generation during

January 13, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
 From 01/01/2023 To 01/13/2023  
 From 01/01/2024 To 01/13/2024

503 GWh  
 545 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 13, 2024

- 1) Rantambe pond spilling stopped at 7:08hrs and started again at 18:50hrs, & spilled intermittently until 22:58hrs
- 2) Kosgama - Polpitiya 132kV cct and Broadland - Seethawaka 132kV cct tripped from both ends at 12:46hrs due to operation of O/C & E/F protection, and Differential protection, respectively. At the same time Kolonnawa - Seethawaka 132kV cct tripped & A/R from Kolonnawa
- 3) Veyangoda 132/33kV T/F 03 tripped from both ends at 21:35hrs due to operation of REF & Differential protection. Veyangoda 132/33kV T/F 03 is yet to be restored
- 4) Chunnakum - Kilinochchi 132kV cct 02 tripped & A/R from both ends and cct 01 tripped and A/R only from Chunnakum end at 23:17hr due to operation of Distance protection.