

# Generation and Reservoirs Statistics

February 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

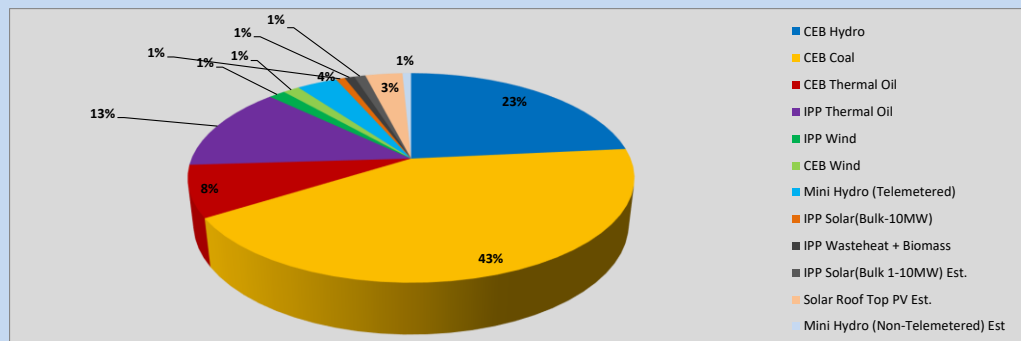


Table 01

	Generation (MWh)
CEB Hydro	10,710
CEB Coal	19,464
CEB Thermal Oil	3,633
IPP Thermal Oil	5,957
IPP Wind	654
CEB Wind	652
Mini Hydro (Telemetered)	1,593
IPP Solar (Bulk)	356
IPP Waste heat + Biomass	392
<b>Total Generation (Excluding estimated figures)</b>	<b>43,411</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	340
* Estimated IPP Solar PV (Bulk 1-10MW)	443
* Estimated Solar Roof Top PV	1470
<b>Total Generation (Including estimated figures)</b>	<b>45,664</b>

\* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1644
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya)	386.9
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	293
Rooftop Solar (LT Bulk)	272
Rooftop Solar (HT Bulk)	74

Data Source - Monthly Review Report [Nov-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	207	25.17%
CEB Coal	363	44.12%
CEB Thermal Oil	61	7.46%
IPP Thermal	58	7.04%
SPP Wind	14	1.64%
CEB Wind	16	1.99%
Mini Hydro *	54	6.56%
IPP Solar *	41	5.01%
IPP Waste heat + BMP	8	0.96%
<b>Total</b>	<b>823</b>	

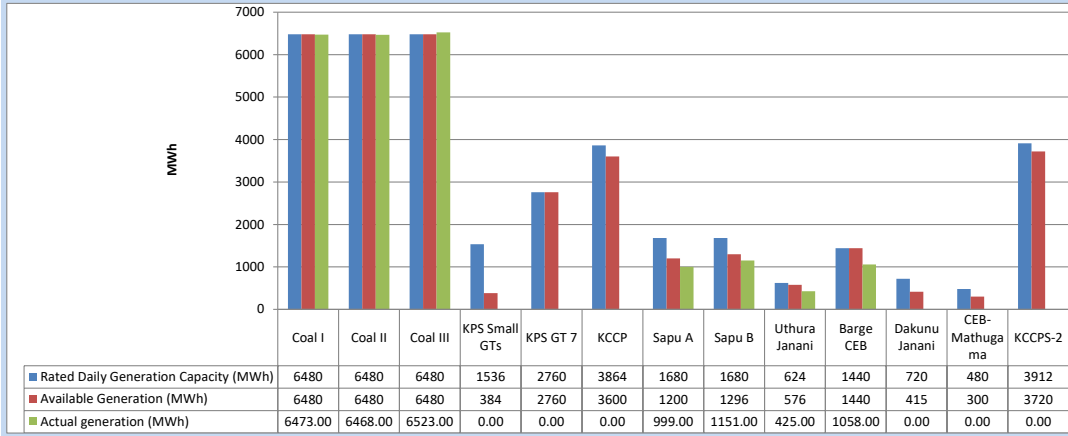
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	838	39.57%
CEB Coal	687	32.42%
CEB Thermal Oil	119	5.61%
IPP Thermal	104	4.89%
SPP Wind	30	1.42%
CEB Wind	38	1.81%
Mini Hydro *	173	8.17%
IPP Solar *	111	5.22%
IPP Waste heat	19	0.89%
<b>Total</b>	<b>2,119</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

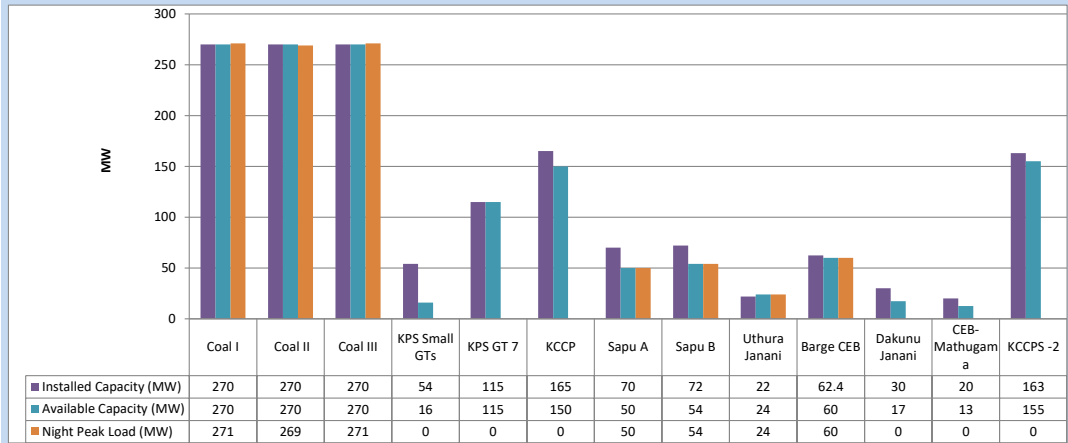
February 19, 2024



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

February 20, 2024

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

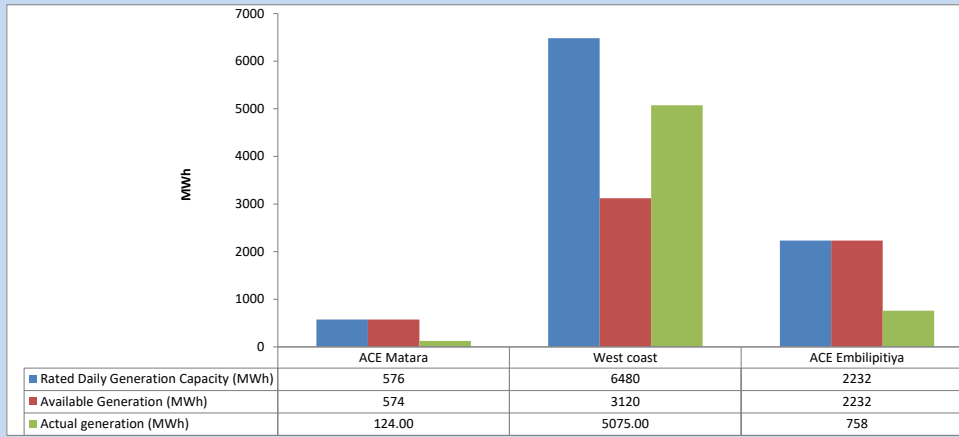


Plant availability is recorded at 6.00 am on

February 20, 2024

### 5. IPP owned Thermal Plant Dispatch

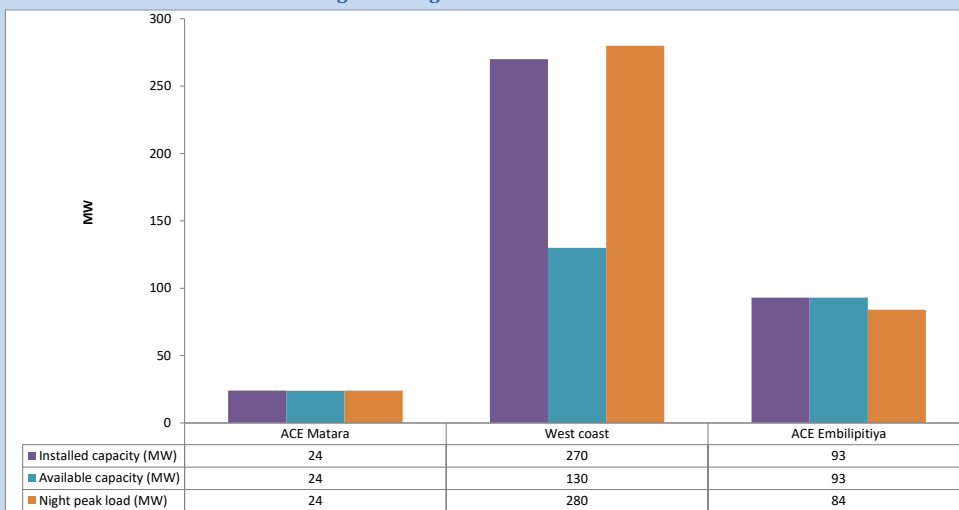
February 19, 2024



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

February 20, 2024

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

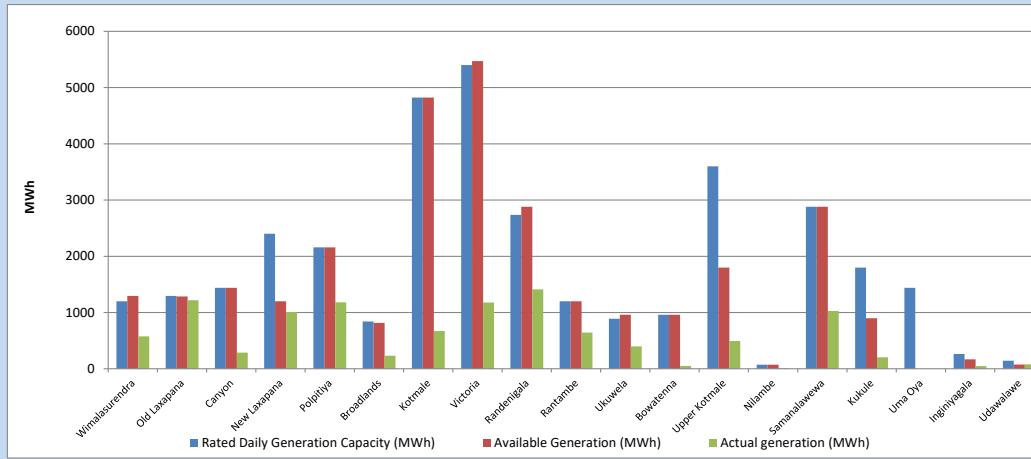


Plant availability is recorded at 6.00 am on

February 20, 2024

## 7. Major Hydro Plant Dispatch

February 19, 2024

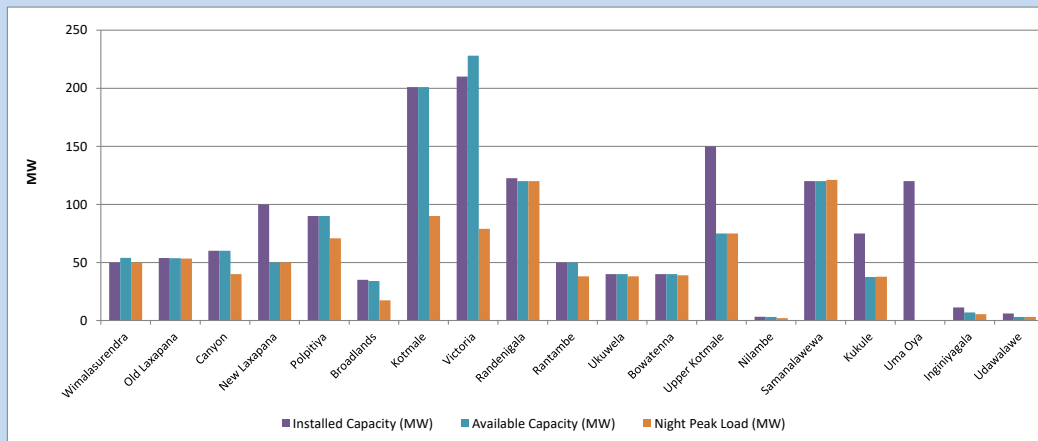


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

February 20, 2024

## 8. Major Hydro Plant Loading at Night Peak

February 19, 2024



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

February 20, 2024

## 9. Summary of Major Plant performance

Table 05

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	54	50	575
Old Laxapana	54	54	53	1,217
Canyon	60	60	40	286
New Laxapana	100	50	50	1,008
Polpitiya	90	90	71	1,180
Broadlands	35	34	17	231
Kotmale	201	201	90	670
Victoria	210	228	79	1,179
Randenigala	123	120	120	1,411
Rantambe	50	50	38	643
Ukuwela	40	40	38	398
Bowatenna	40	40	39	52
Upper Kotmale	150	75	75	492
Nilambe	3	3	2	10
Samanalawewa	120	120	121	1,028
Kukule	75	38	38	204
Uma Oya (Testing )	120	0	0	0
Inginiyagala	11	7	6	48
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	271	6,473
Puttalam Coal II	270	270	269	6,468
Puttalam Coal III	270	270	271	6,523
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	50	50	999
Sapugaskanda B	72	54	54	1,151
Uthura Janani	22	24	24	425
Barge CEB	62	60	60	1,058
CEB-Hambantota	30	17	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	24	124
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	130	280	5,075
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	84	758
<b>Total</b>	<b>3,594</b>	<b>2,977</b>	<b>2,471</b>	<b>43,411</b>

Note-

Plant availability is the availability recorded at 6 am on

February 20, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

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

February 19, 2024

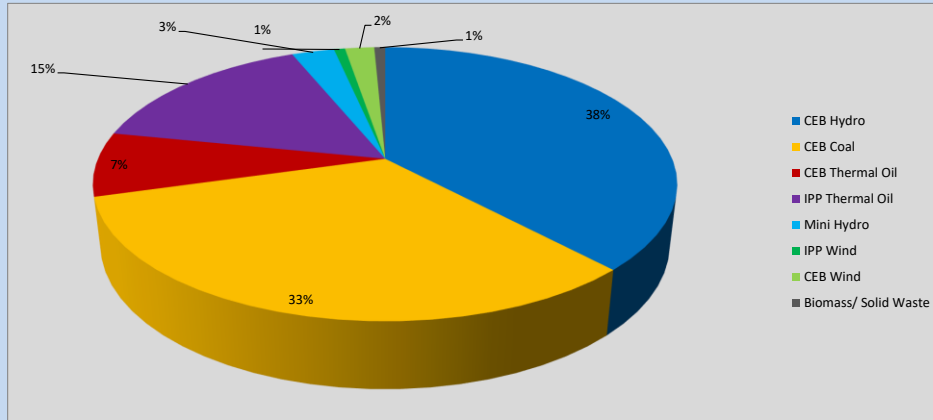


Table 06

CEB Hydro	942	MW
CEB Coal	811	MW
CEB Thermal Oil	188	MW
IPP Thermal Oil	388	MW
Mini Hydro (Telemetered)	70	MW
IPP Wind	18.2	MW
CEB Wind	48	MW
Biomass/ Solid Waste	18	MW

### Recorded Peak Demand Data

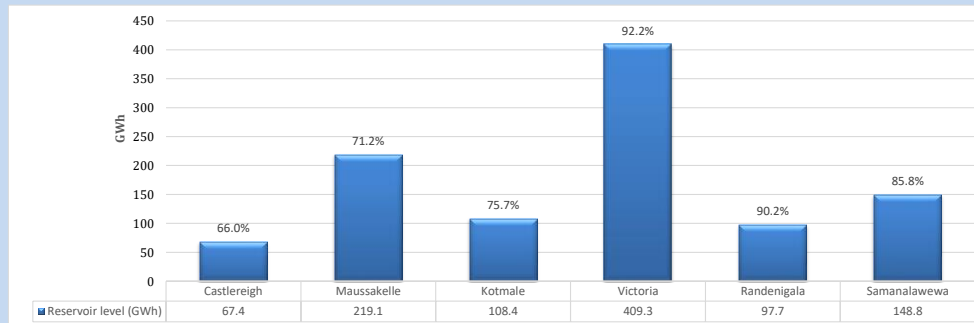
Table 07

Night Peak*	2,483	MW
Day Peak Maximum Demand	2,191	MW
Day Peak Minimum Demand	1,672	MW
Off Peak Minimum Demand	1,305	MW

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

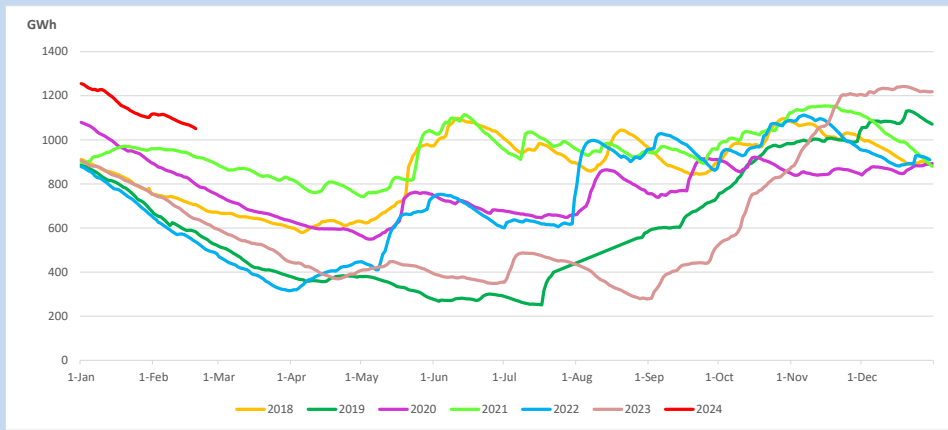
### Reservoir Levels -

as at 06.00 Hr on February 20, 2024

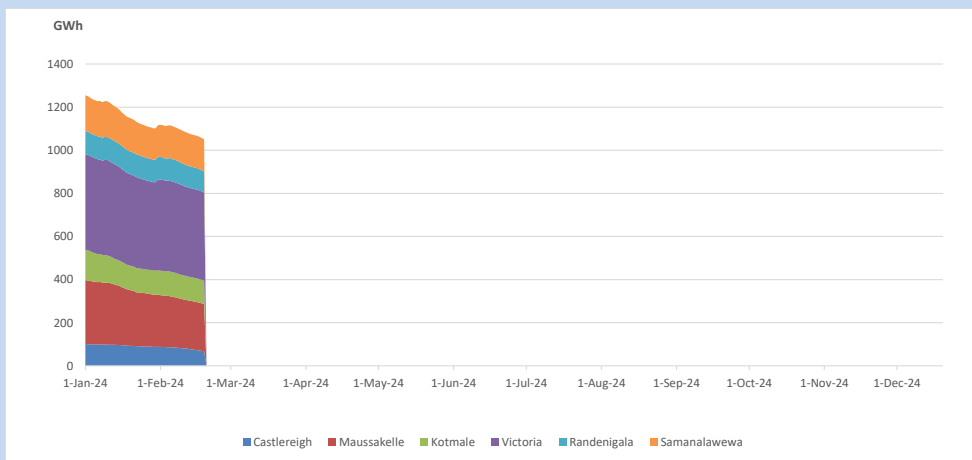


Total Reservoir Level 1050.7 GWh  
% of Total capacity 82.2%

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

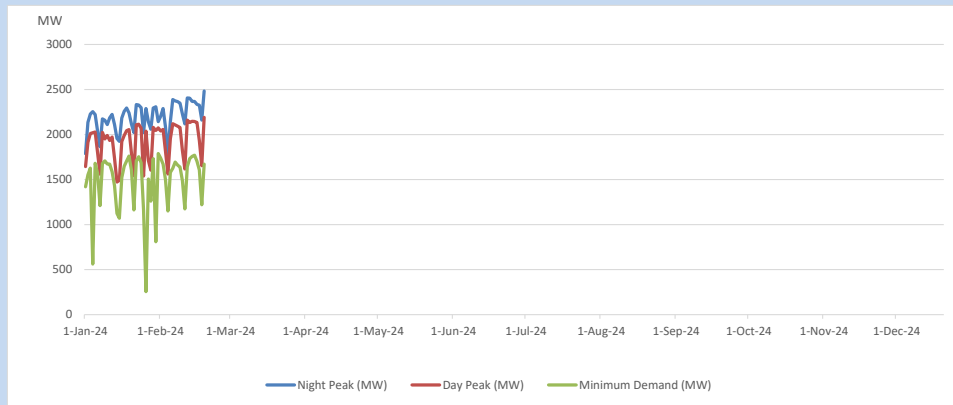


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





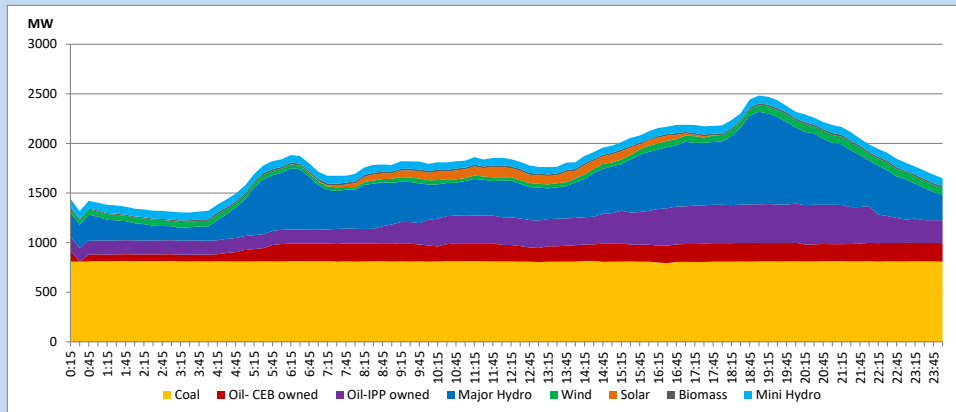
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

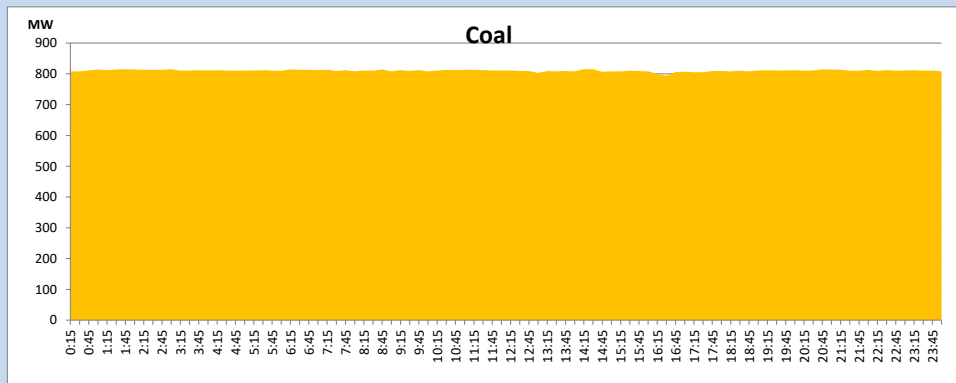
February 19, 2024



Solar and wind data is based on Telemetered Power Stations only

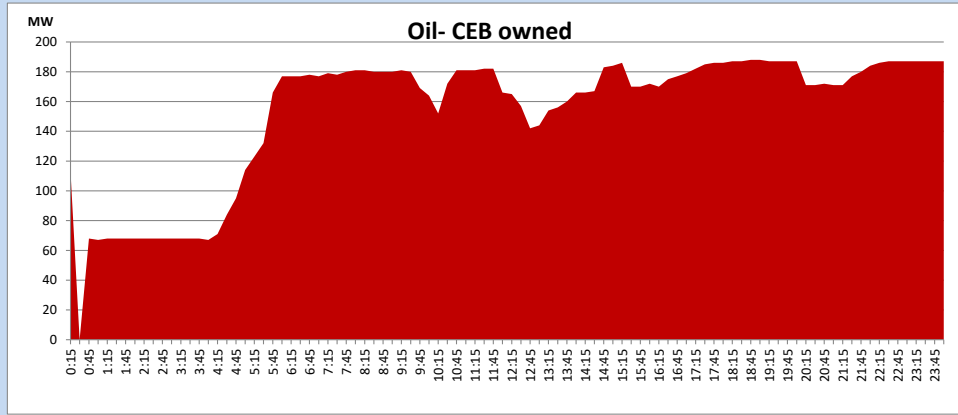
### Coal Generation during

February 19, 2024



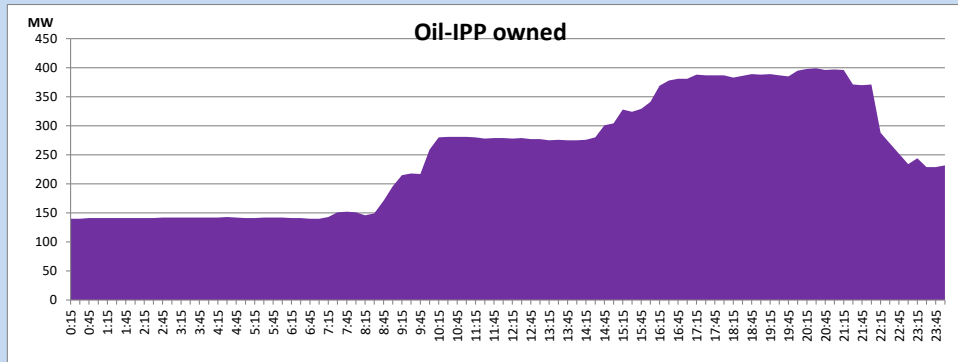
CEB Oil Plant Generation during

February 19, 2024



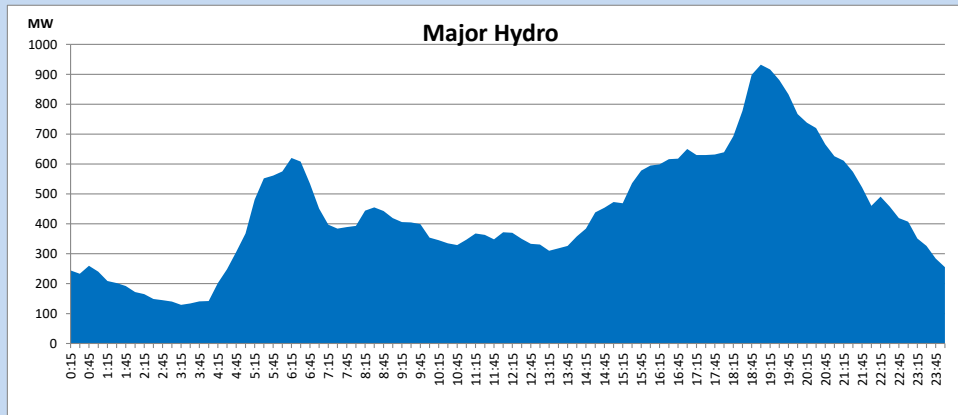
IPP Oil Plant Generation during

February 19, 2024



Major Hydro Generation during

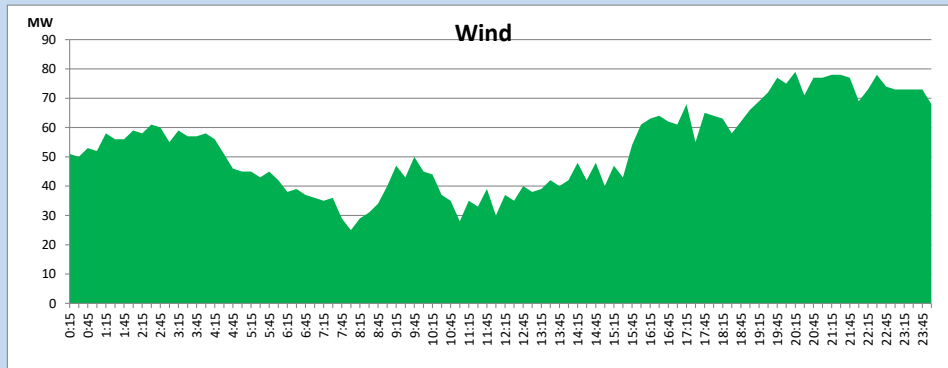
February 19, 2024



## Wind Generation during

February 19, 2024

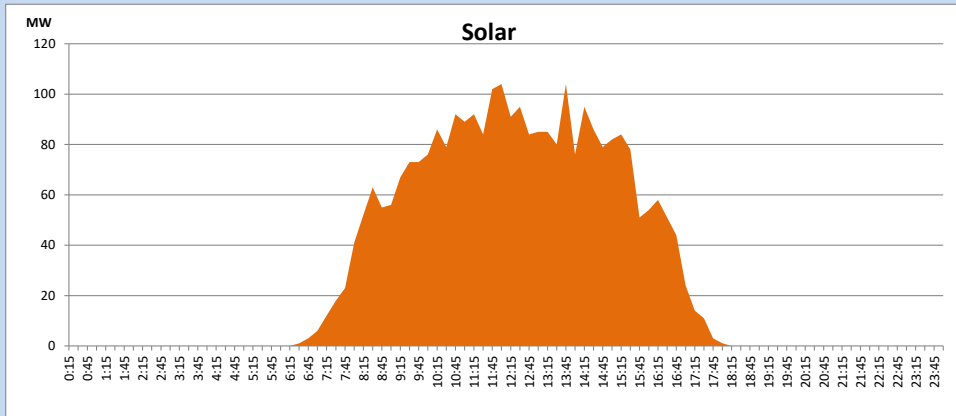
Based on Telemetered Power Stations only



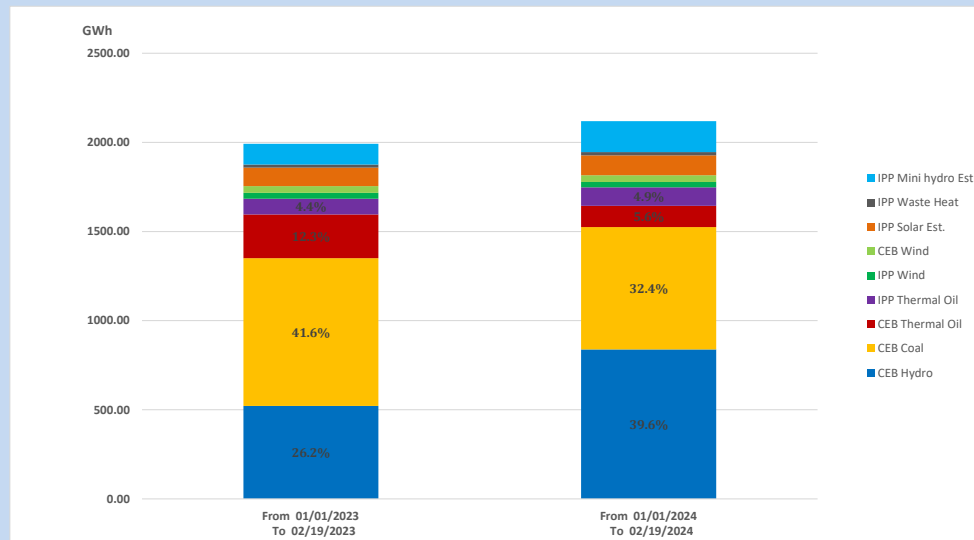
## Solar Generation during

February 19, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
 From 01/01/2023 To 02/19/2023  
 From 01/01/2024 To 02/19/2024

1992 GWh  
 2119 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)  
 Unserviced energy due to power cuts has been excluded in 2023

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

February 19, 2024

- 1) Ambalangoda-Mathugama 132kV cct 02 tripped and A/R from both ends at 06:31hrs due to the operation of distance protection.
- 2) WPS GSS 132/33kV T/F 03 tripped only from 33kV side along with 33kV feeder 06 at 14:42hrs due to the operation of E/F protection. This caused 33kV B/S 02 and all connected feeders to be dead. The T/F, 33kV B/S and all affected feeders except feeder 06 were normalized by 14:58hrs.