

# Generation and Reservoirs Statistics

February 10, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

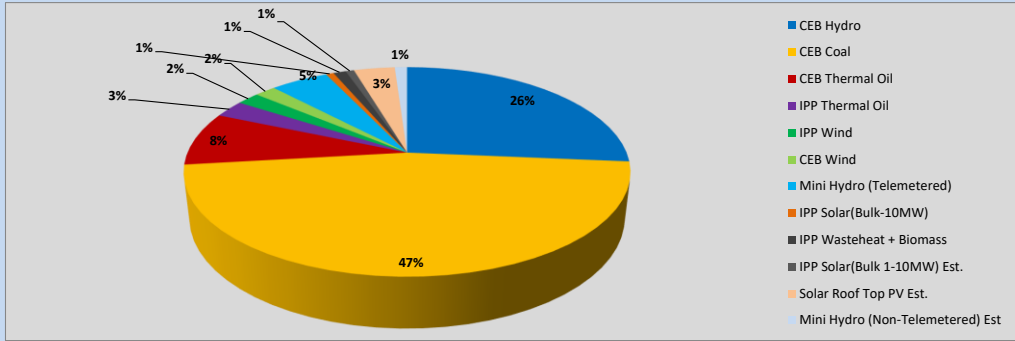


Table 01

	Generation (MWh)
CEB Hydro	10,924
CEB Coal	19,383
CEB Thermal Oil	3,432
IPP Thermal Oil	1,108
IPP Wind	815
CEB Wind	754
Mini Hydro (Telemetered)	2,071
IPP Solar (Bulk)	281
IPP Waste heat + Biomass	447
<b>Total Generation (Excluding estimated figures)</b>	<b>39,215</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	441
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1470
<b>Total Generation (Including estimated figures)</b>	<b>41,430</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	117	27.44%
CEB Coal	191	44.60%
CEB Thermal Oil	34	7.96%
IPP Thermal	14	3.28%
SPP Wind	6	1.38%
CEB Wind	7	1.54%
Mini Hydro *	33	7.69%
IPP Solar *	22	5.08%
IPP Waste heat + BMP	4	1.03%
<b>Total</b>	<b>428</b>	

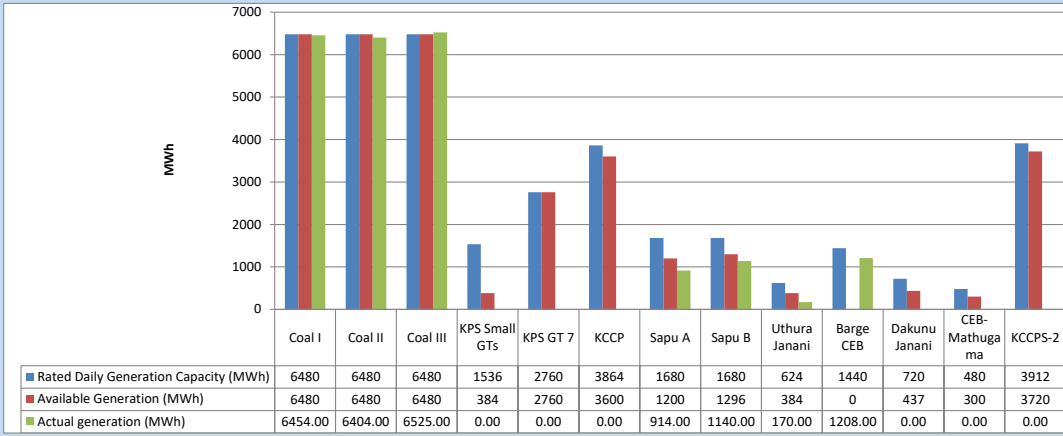
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	749	43.43%
CEB Coal	515	29.85%
CEB Thermal Oil	92	5.31%
IPP Thermal	60	3.46%
SPP Wind	22	1.30%
CEB Wind	28	1.65%
Mini Hydro *	152	8.81%
IPP Solar *	91	5.29%
IPP Waste heat	15	0.90%
<b>Total</b>	<b>1,724</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

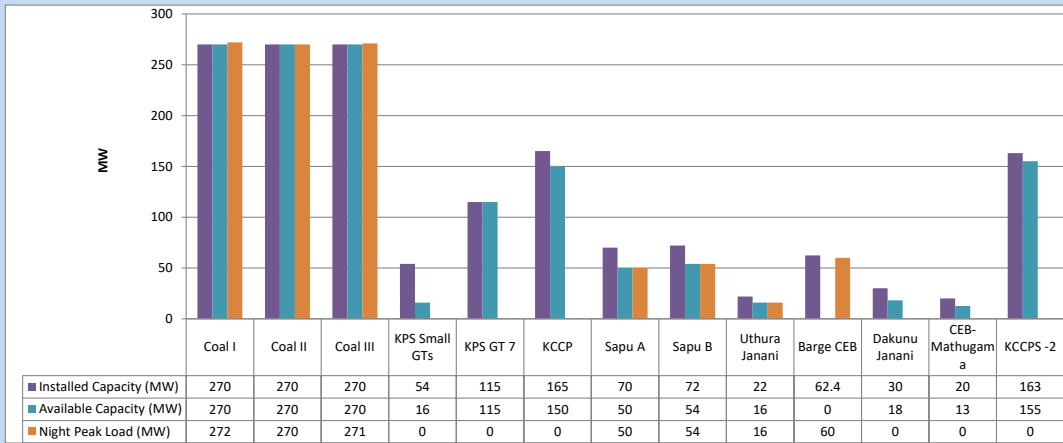
February 10, 2024



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

February 11, 2024

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

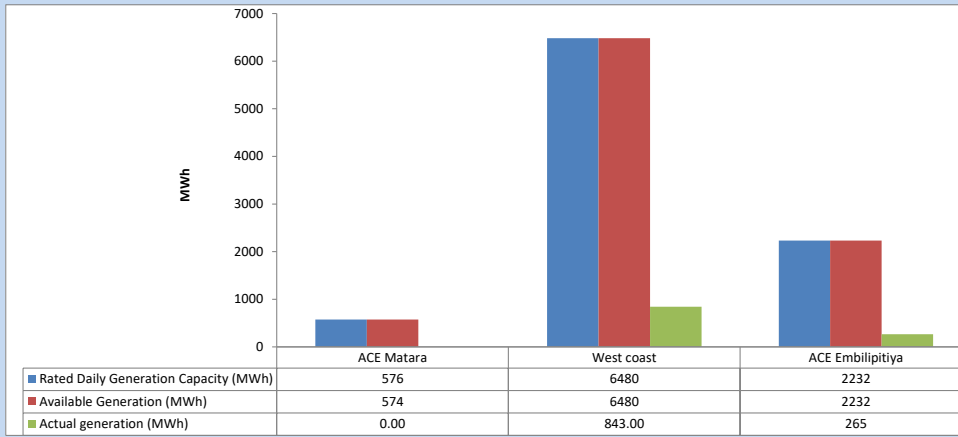


Plant availability is recorded at 6.00 am on

February 11, 2024

### 5. IPP owned Thermal Plant Dispatch

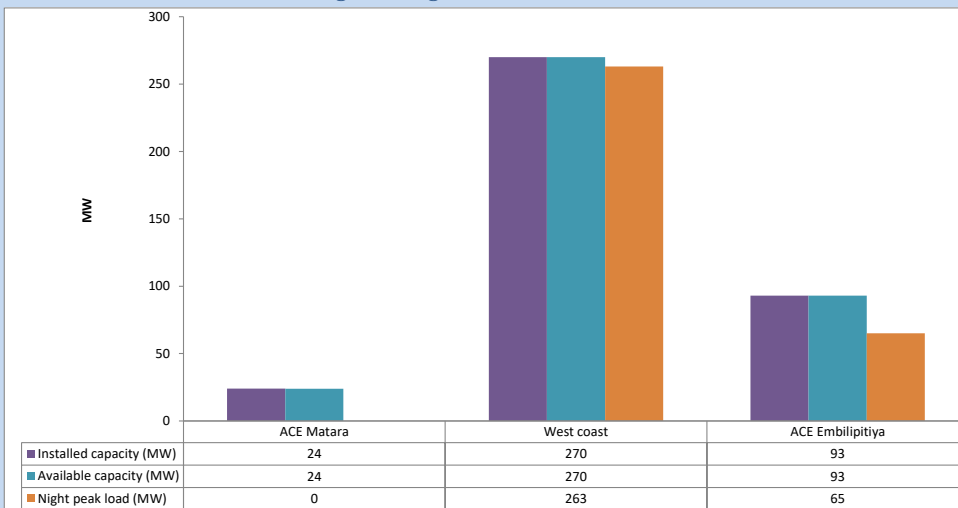
February 10, 2024



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

February 11, 2024

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

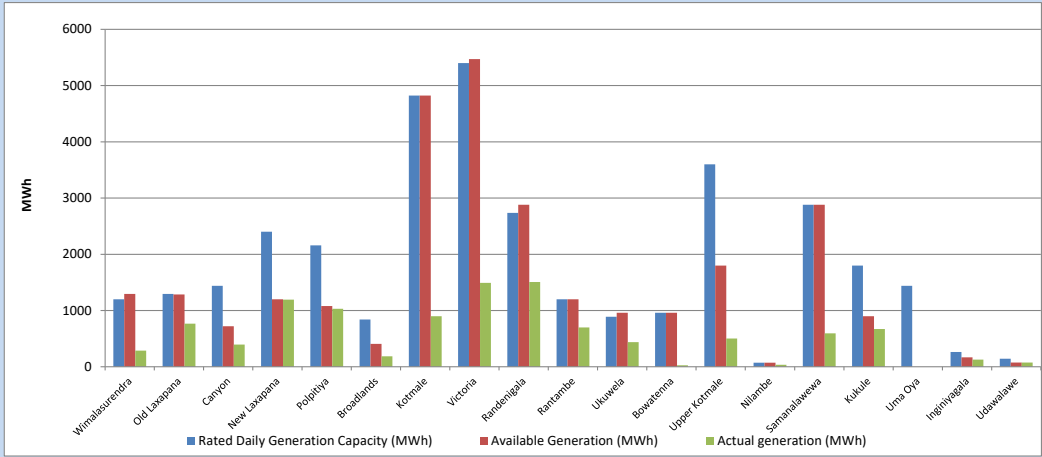


Plant availability is recorded at 6.00 am on

February 11, 2024

### 7. Major Hydro Plant Dispatch

February 10, 2024

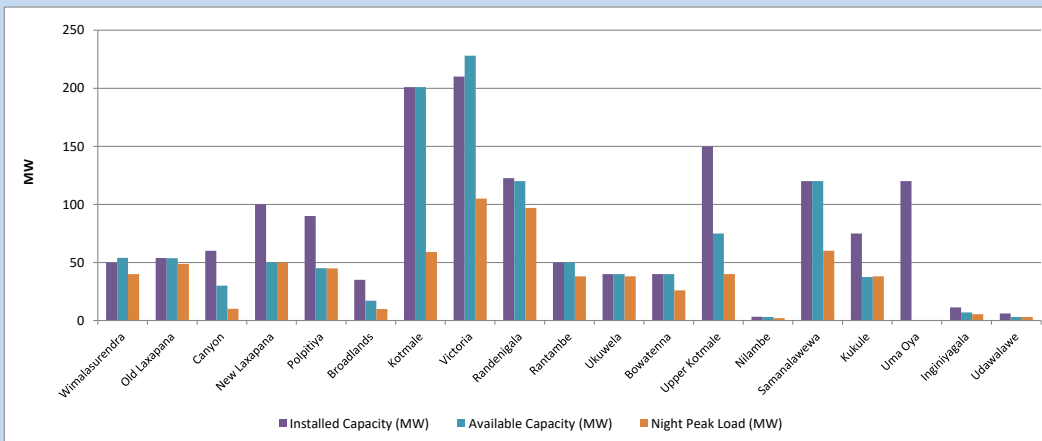


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

February 11, 2024

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

February 10, 2024



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

February 11, 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	40	286
Old Laxapana	54	54	49	768
Canyon	60	30	10	394
New Laxapana	100	50	50	1,194
Polpitiya	90	45	45	1,030
Broadlands	35	17	10	186
Kotmale	201	201	59	900
Victoria	210	228	105	1,491
Randenigala	123	120	97	1,506
Rantambe	50	50	38	700
Ukuwela	40	40	38	439
Bowatenna	40	40	26	25
Upper Kotmale	150	75	40	503
Nilambe	3	3	2	34
Samanalawewa	120	120	60	595
Kukule	75	38	38	672
Uma Oya (Testing )	120	0	0	0
Inginiyagala	11	7	5	126
Udawalawe	6	3	3	75
Puttalam Coal I	270	270	272	6,454
Puttalam Coal II	270	270	270	6,404
Puttalam Coal III	270	270	271	6,525
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	50	50	914
Sapugaskanda B	72	54	54	1,140
Uthura Janani	22	16	16	170
Barge CEB	62	0	60	1,208
CEB-Hambantota	30	18	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	263	843
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	65	265
<b>Total</b>	<b>3,594</b>	<b>2,958</b>	<b>2,216</b>	<b>39,215</b>

Note-

Plant availability is the availability recorded at 6 am on

February 11, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

February 10, 2024

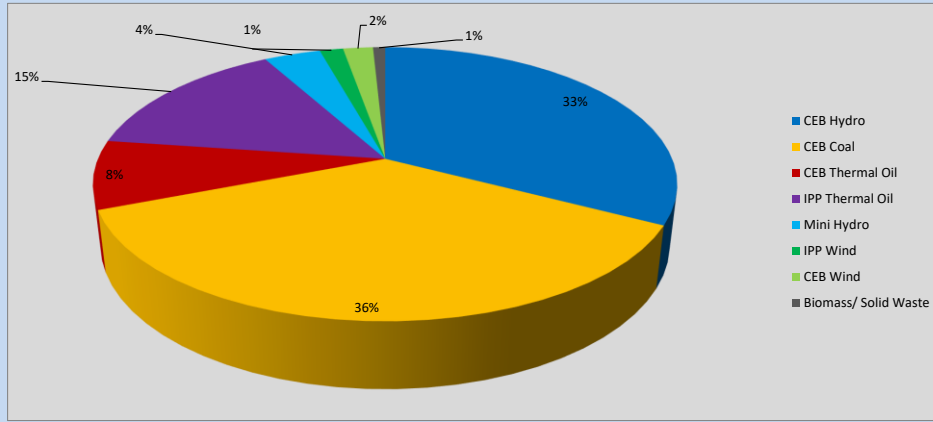


Table 06

CEB Hydro	727	MW
CEB Coal	813	MW
CEB Thermal Oil	180	MW
IPP Thermal Oil	328	MW
Mini Hydro (Telemetered)	83	MW
IPP Wind	34.5	MW
CEB Wind	44.1	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

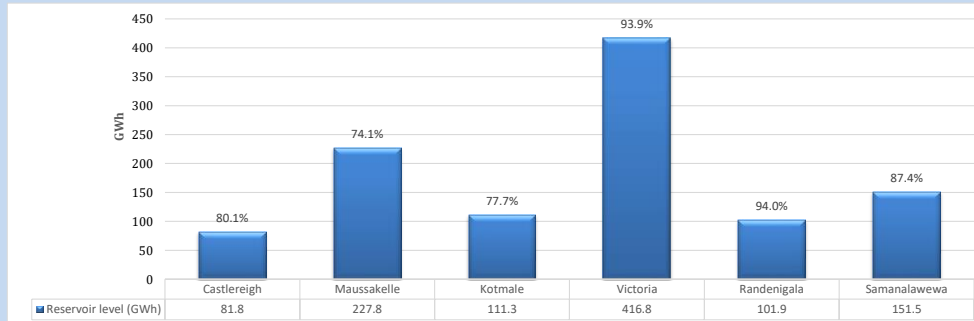
Table 07

Night Peak*	2,227	MW
Day Peak Maximum Demand	1,821	MW
Day Peak Minimum Demand	1,487	MW
Off Peak Minimum Demand	1,337	MW

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

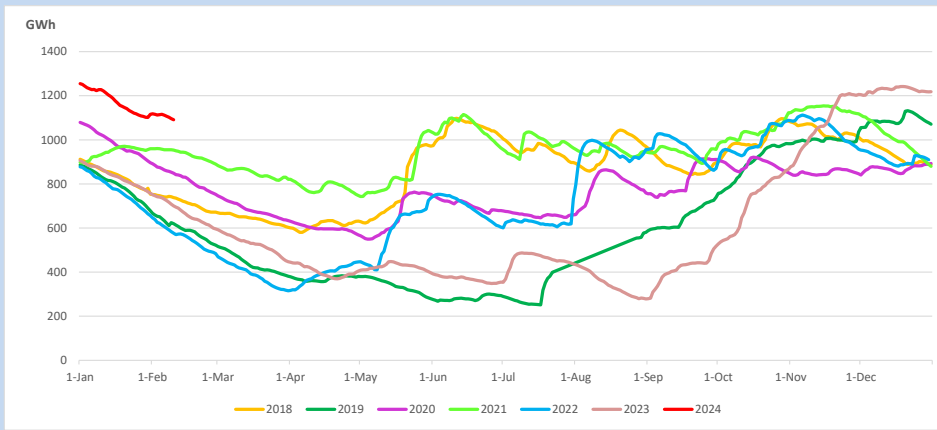
Reservoir Levels -

as at 06.00 Hr on February 11, 2024

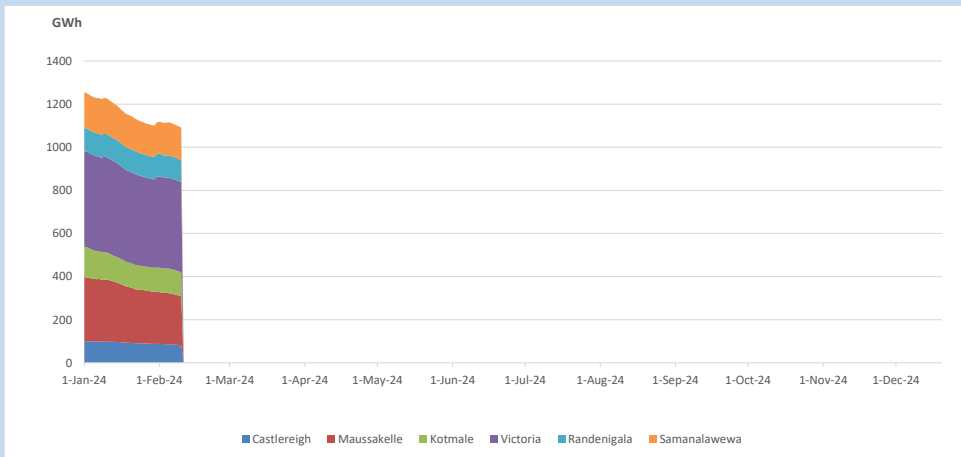


Total Reservoir Level 1091.1 GWh  
 % of Total capacity 85.3%

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

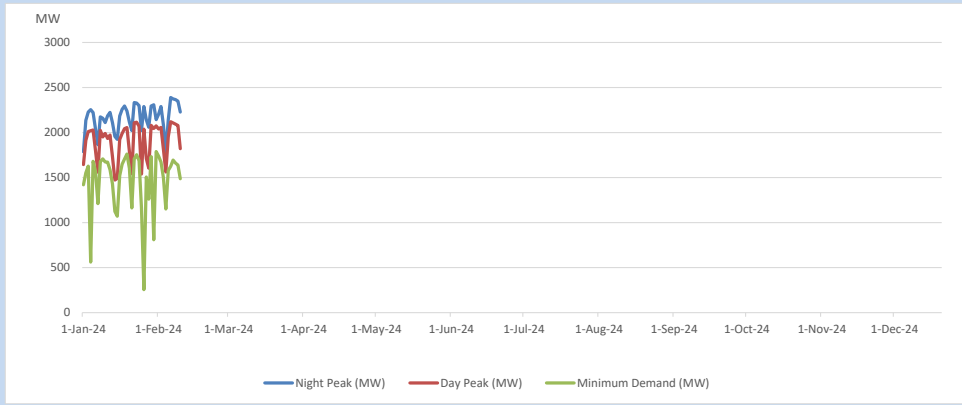


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





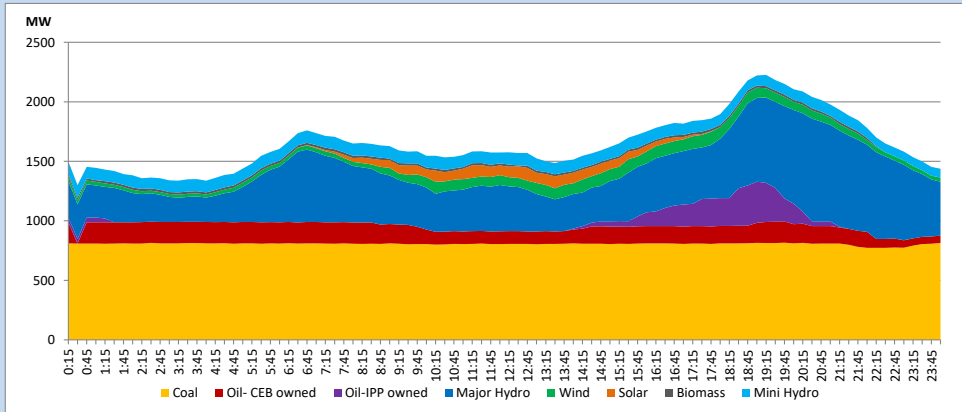
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

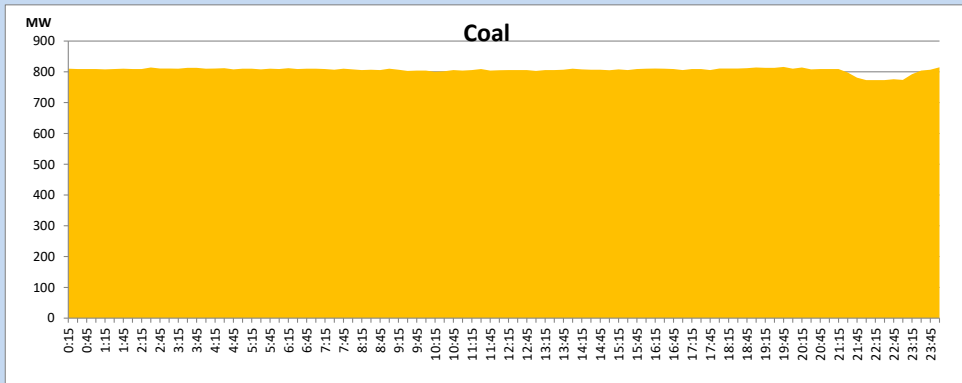
February 10, 2024



Solar and wind data is based on Telemetered Power Stations only

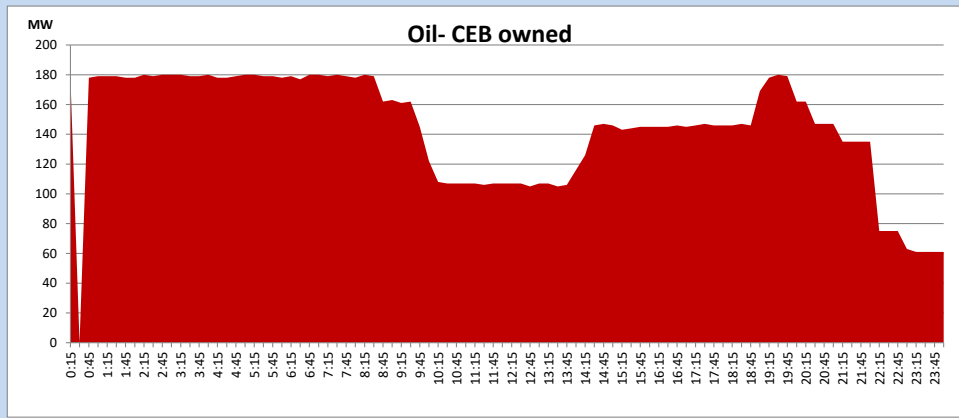
### Coal Generation during

February 10, 2024



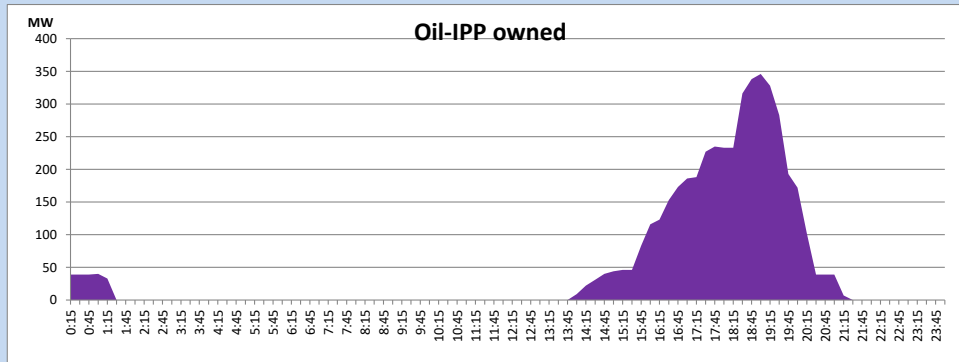
CEB Oil Plant Generation during

February 10, 2024



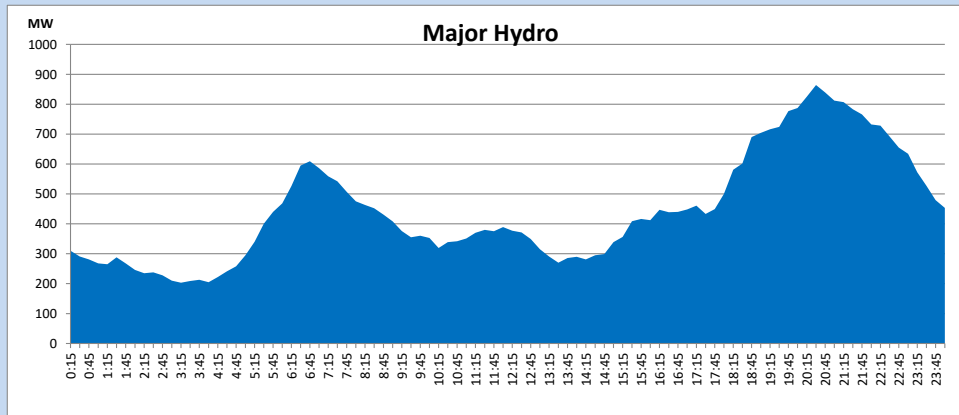
IPP Oil Plant Generation during

February 10, 2024



Major Hydro Generation during

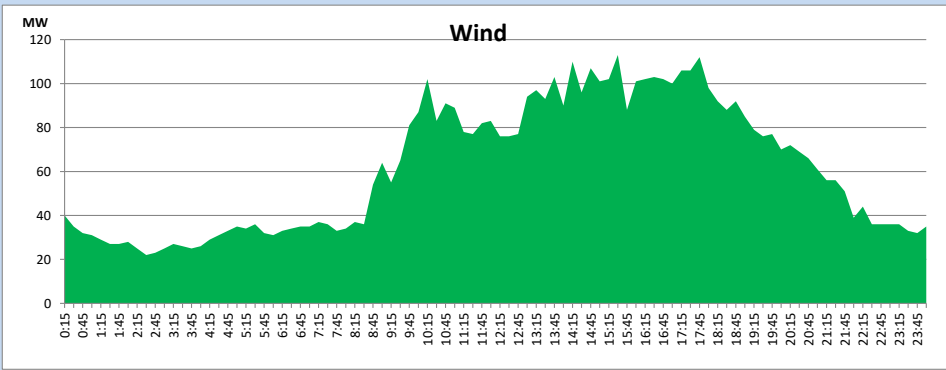
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### Wind Generation during

February 10, 2024

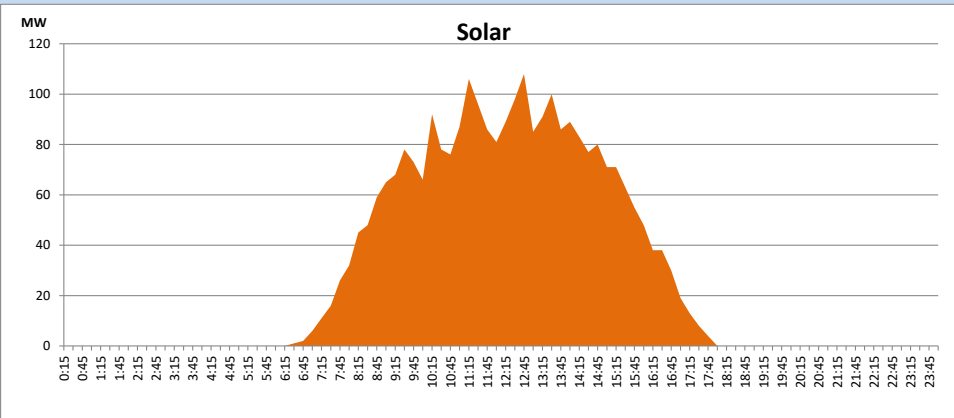
Based on Telemetered Power Stations only



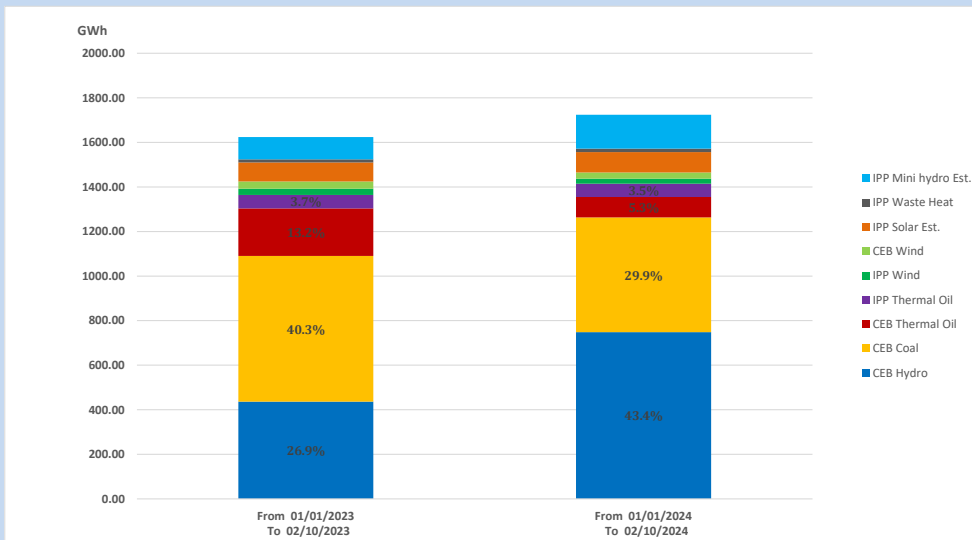
### Solar Generation during

February 10, 2024

Based on Telemetered Power Stations only



### 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
 From 01/01/2023 To 02/10/2023  
 From 01/01/2024 To 02/10/2024

1624 GWh  
 1724 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)  
 Unserved 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 10, 2024

- 1) Kelanitissa-Power Barge 220kV cable tripped at 22:10hrs causing Power Barge all machines to be tripped, rejecting 56MW from the system. The cable is yet to be restored and the all machines of Power Barge are yet to resume generation.