

# Generation and Reservoirs Statistics

February 6, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

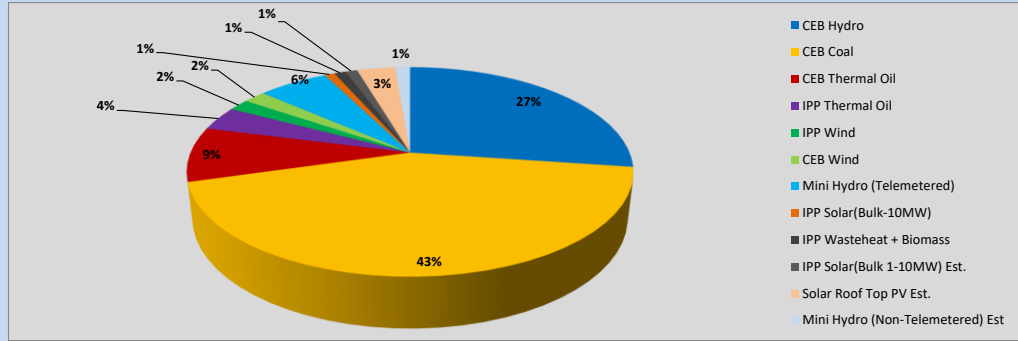


Table 01

	Generation (MWh)
CEB Hydro	12,102
CEB Coal	19,300
CEB Thermal Oil	3,761
IPP Thermal Oil	1,657
IPP Wind	802
CEB Wind	852
Mini Hydro (Telemetered)	2,702
IPP Solar (Bulk)	392
IPP Waste heat + Biomass	436
<b>Total Generation (Excluding estimated figures)</b>	<b>42,004</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	576
* Estimated IPP Solar PV (Bulk 1-10MW)	463
* Estimated Solar Roof Top PV	1470
<b>Total Generation (Including estimated figures)</b>	<b>44,513</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	73	28.89%
CEB Coal	113	44.79%
CEB Thermal Oil	18	7.21%
IPP Thermal	3	1.28%
SPP Wind	3	1.32%
CEB Wind	4	1.55%
Mini Hydro *	22	8.71%
IPP Solar *	13	5.17%
IPP Waste heat + BMP	3	1.09%
<b>Total</b>	<b>252</b>	

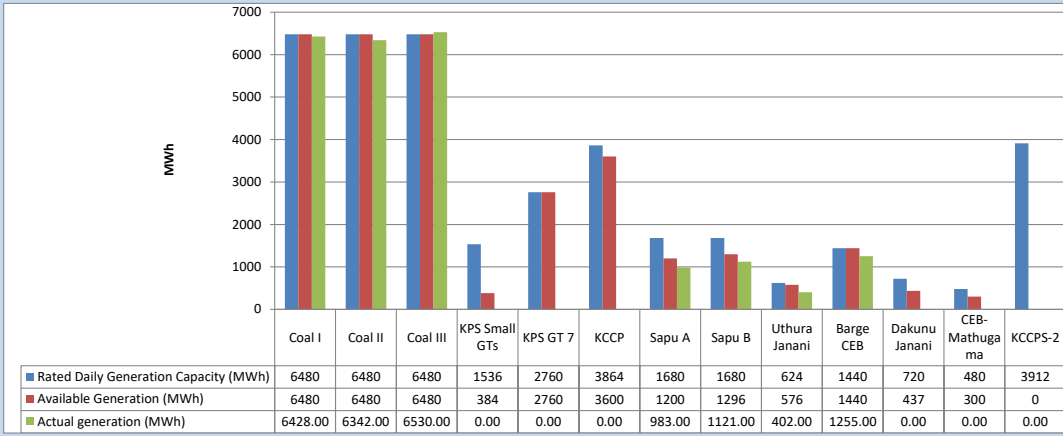
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	704	45.47%
CEB Coal	437	28.21%
CEB Thermal Oil	76	4.89%
IPP Thermal	49	3.16%
SPP Wind	20	1.28%
CEB Wind	26	1.67%
Mini Hydro *	141	9.11%
IPP Solar *	83	5.33%
IPP Waste heat	14	0.89%
<b>Total</b>	<b>1,549</b>	

\*Including estimated contribution from non telemetered plants

### 3. CEB owned Thermal Plant Dispatch

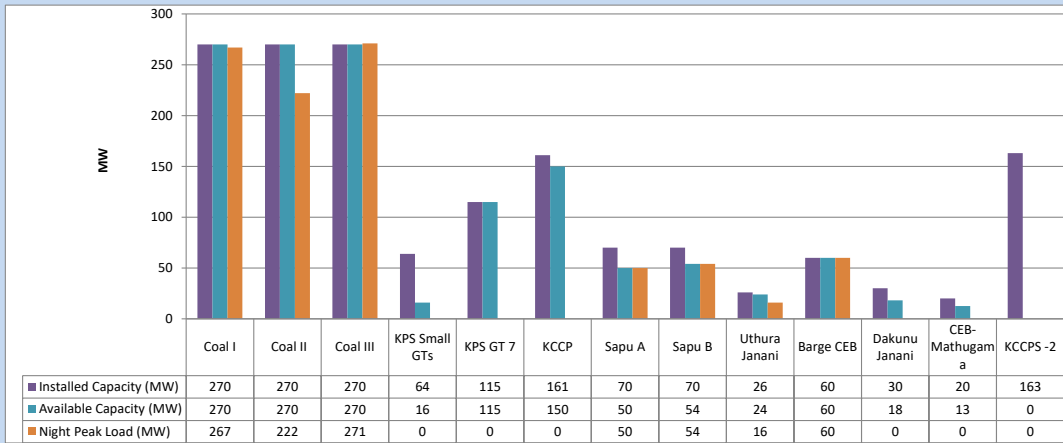
February 6, 2024



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

February 7, 2024

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

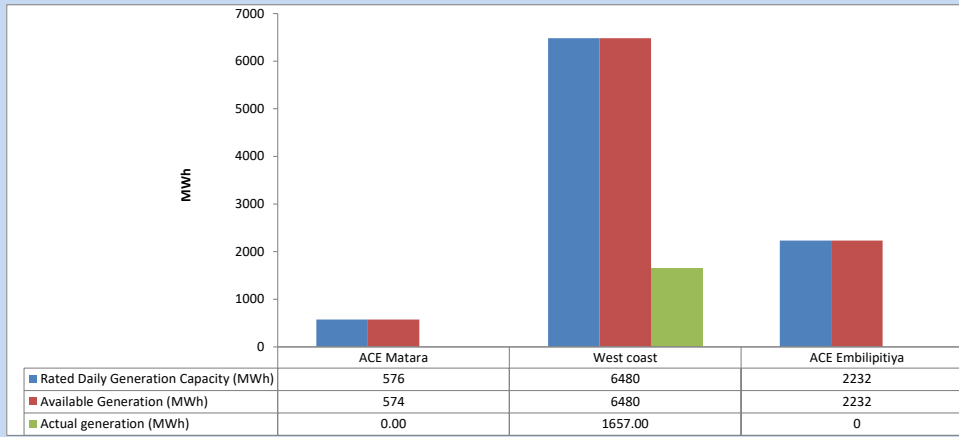


Plant availability is recorded at 6.00 am on

February 7, 2024

### 5. IPP owned Thermal Plant Dispatch

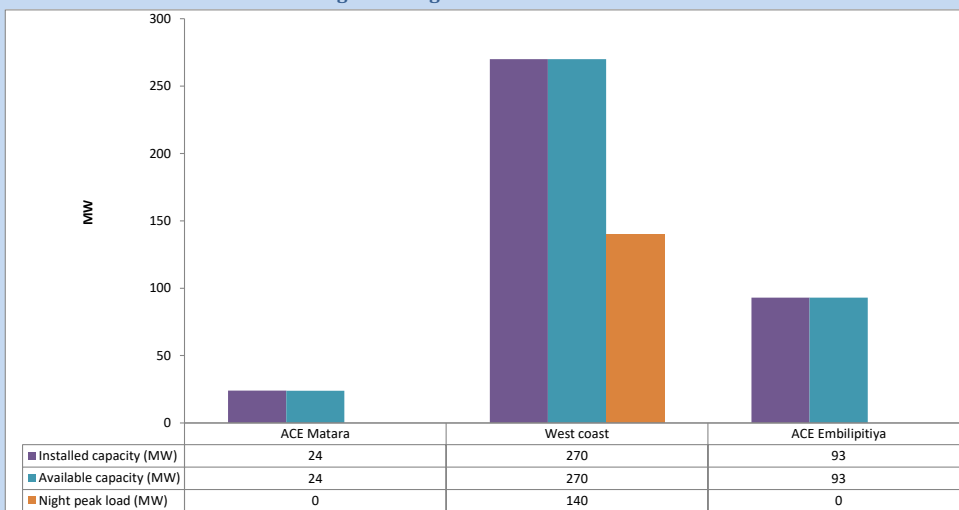
February 6, 2024



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

February 7, 2024

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

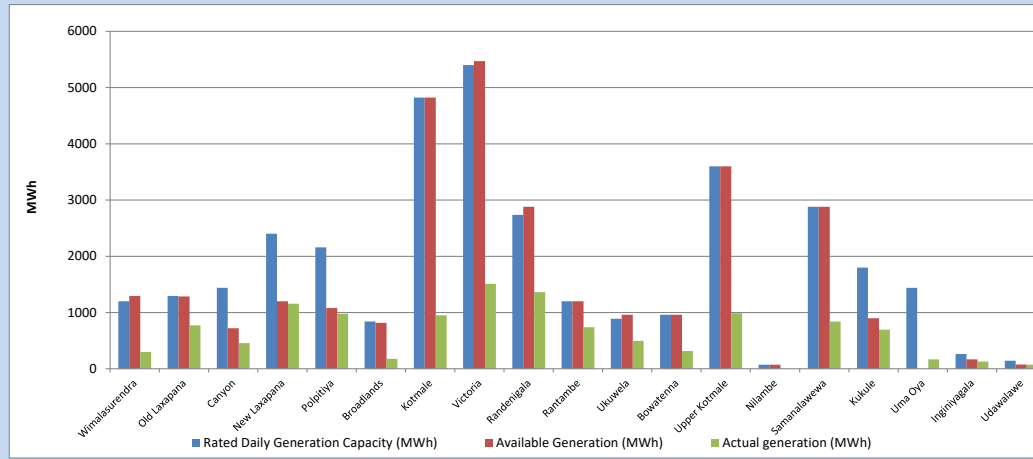


Plant availability is recorded at 6.00 am on

February 7, 2024

### 7. Major Hydro Plant Dispatch

February 6, 2024

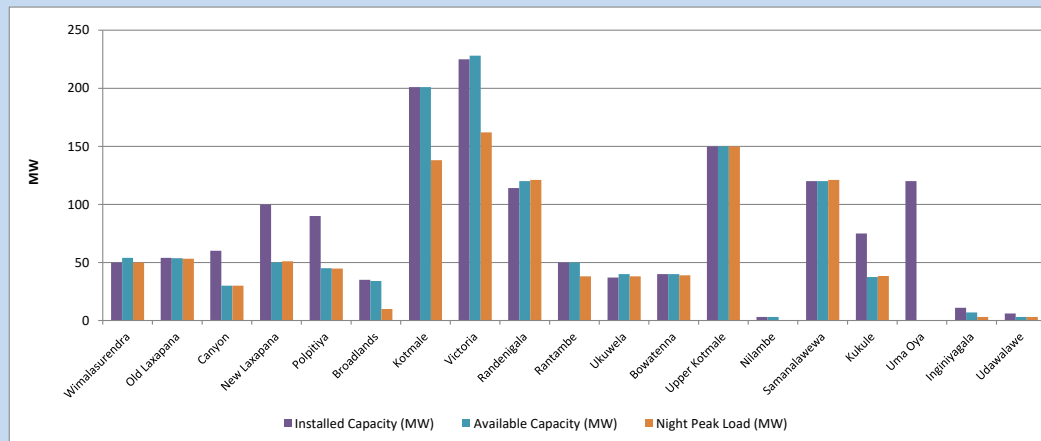


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

February 7, 2024

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

February 6, 2024



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

February 7, 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	50	299
Old Laxapana	54	54	53	773
Canyon	60	30	30	455
New Laxapana	100	50	51	1,156
Polpitiya	90	45	45	980
Broadlands	35	34	10	177
Kotmale	201	201	138	950
Victoria	225	228	162	1,509
Randerigala	114	120	121	1,362
Rantambe	50	50	38	739
Ukuwela	37	40	38	495
Bowatenna	40	40	39	316
Upper Kotmale	150	150	150	989
Nilambe	3	3	0	0
Samanalawewa	120	120	121	841
Kukule	75	38	38	696
Uma Oya (Testing )	120	0	0	166
Inginiyagala	11	7	3	128
Udawalawe	6	3	3	71
Puttalam Coal I	270	270	267	6,428
Puttalam Coal II	270	270	222	6,342
Puttalam Coal III	270	270	271	6,530
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	50	50	983
Sapugaskanda B	70	54	54	1,121
Uthura Janani	26	24	16	402
Barge CEB	60	60	60	1,255
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	0	0	0
West Coast	270	270	140	1,657
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
<b>Total</b>	<b>3,603</b>	<b>2,963</b>	<b>2,377</b>	<b>42,004</b>

Plant availability is the availability recorded at 6 am on

February 7, 2024

10. Contribution to the Night Peak in MW

February 6, 2024

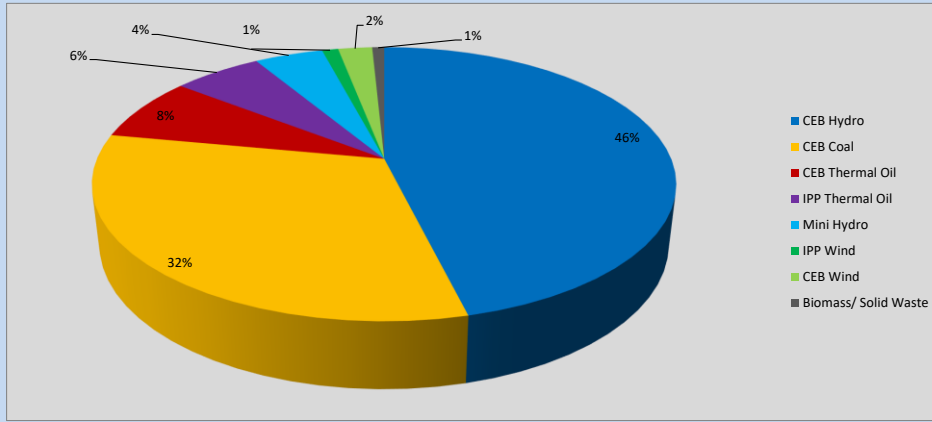


Table 06

CEB Hydro	1102	MW
CEB Coal	760	MW
CEB Thermal Oil	180	MW
IPP Thermal Oil	140	MW
Mini Hydro (Telemetered)	108	MW
IPP Wind	25.6	MW
CEB Wind	53.8	MW
Biomass/ Solid Waste	19	MW

Recorded Peak Demand Data

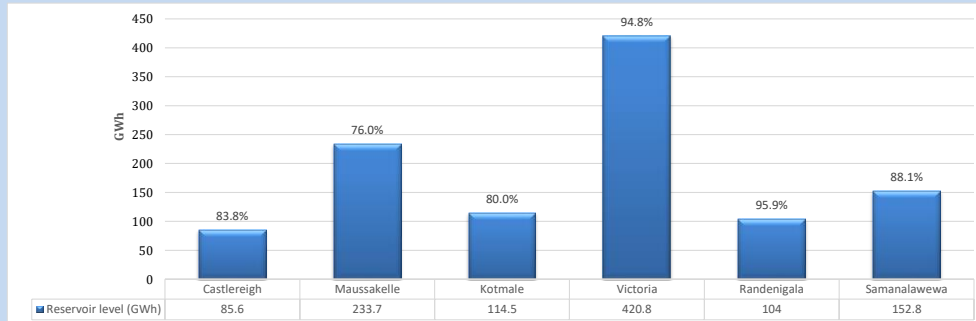
Table 07

Night Peak*	2,389	MW
Day Peak Maximum Demand	2,120	MW
Day Peak Minimum Demand	1,624	MW
Off Peak Minimum Demand	1,291	MW

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

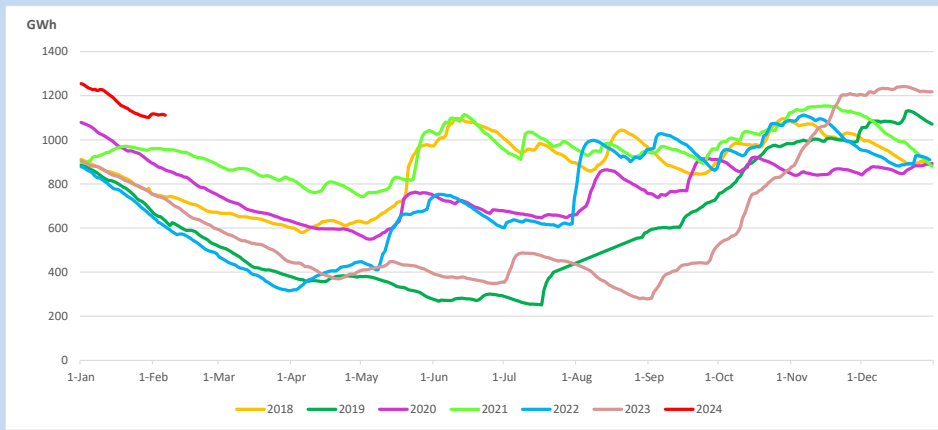
Reservoir Levels -

as at 06.00 Hr on February 7, 2024

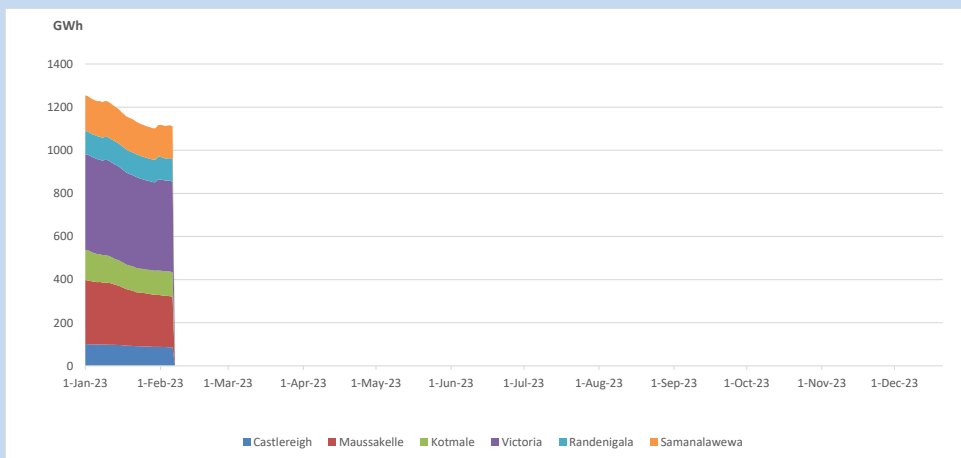


Total Reservoir Level 1111.4 GWh  
 % of Total capacity 86.9%

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

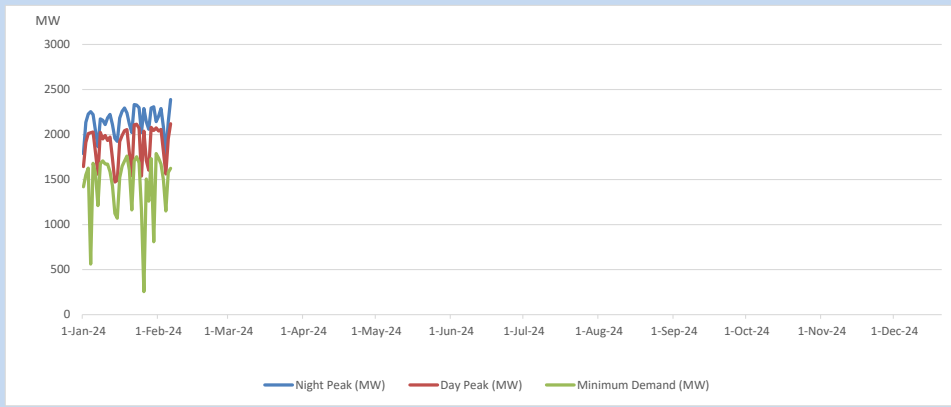


### 12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





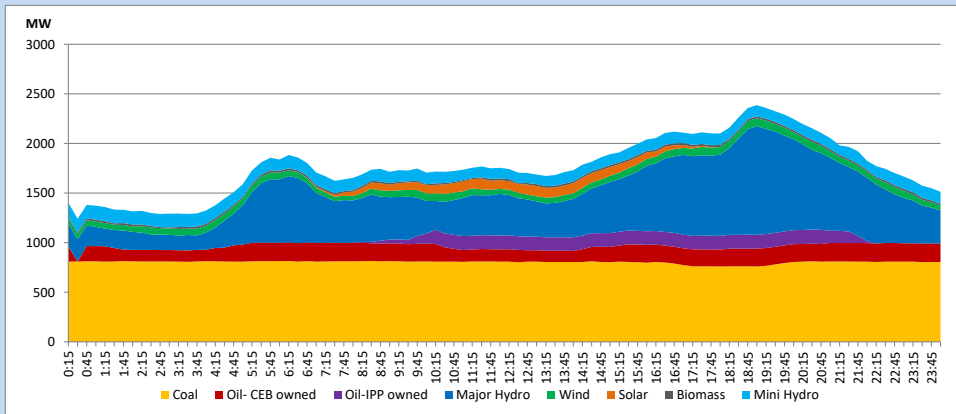
### 13. Variation of Demand during the current year



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

### 14. Daily Load Curve

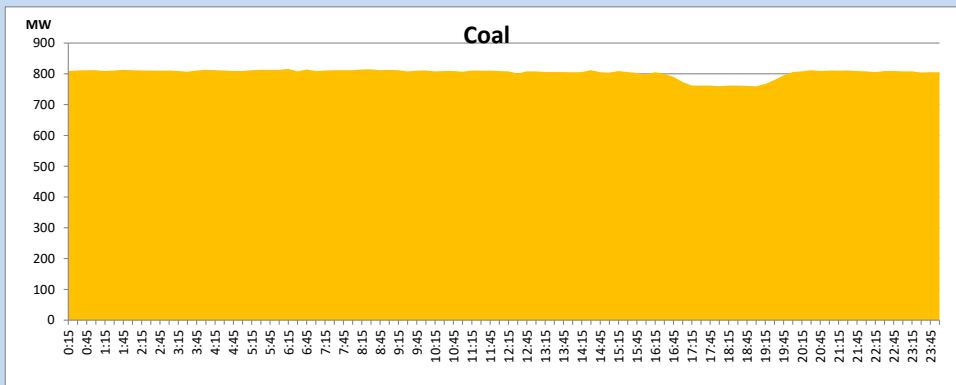
February 6, 2024



Solar and wind data is based on Telemetered Power Stations only

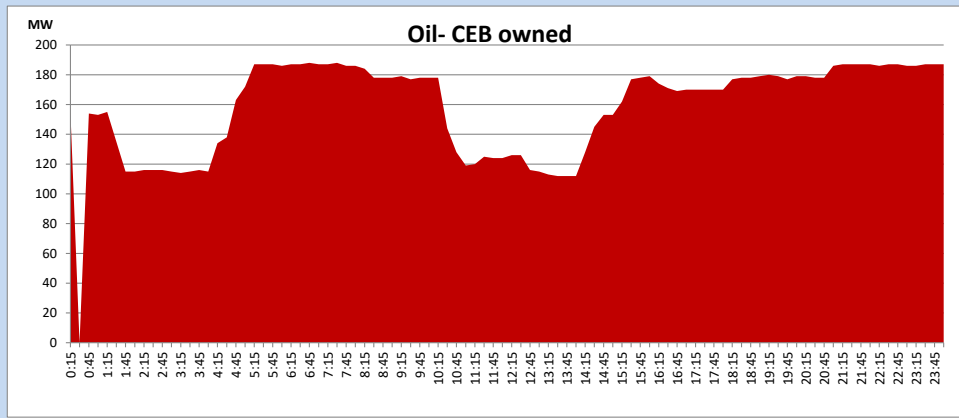
### Coal Generation during

February 6, 2024



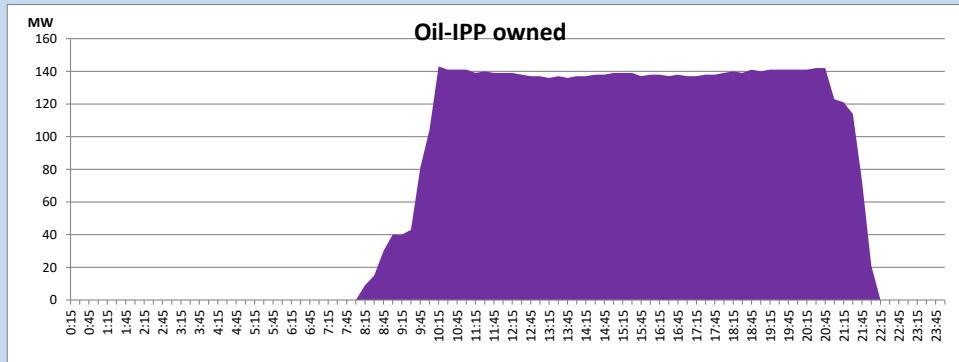
CEB Oil Plant Generation during

February 6, 2024



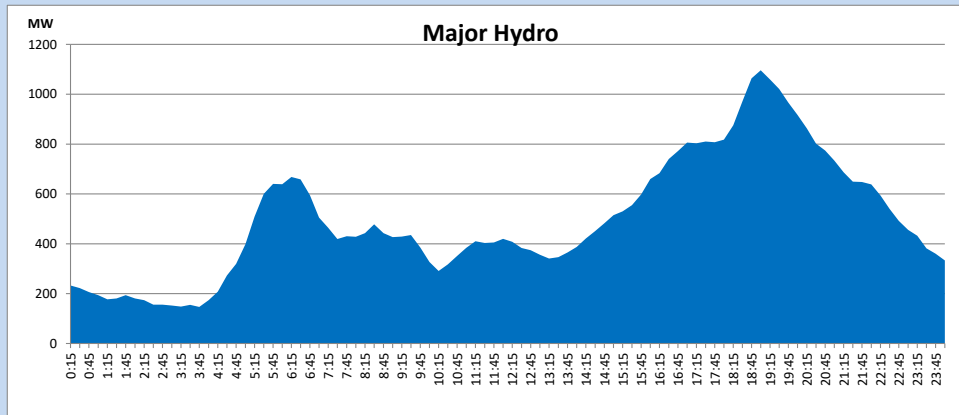
IPP Oil Plant Generation during

February 6, 2024



Major Hydro Generation during

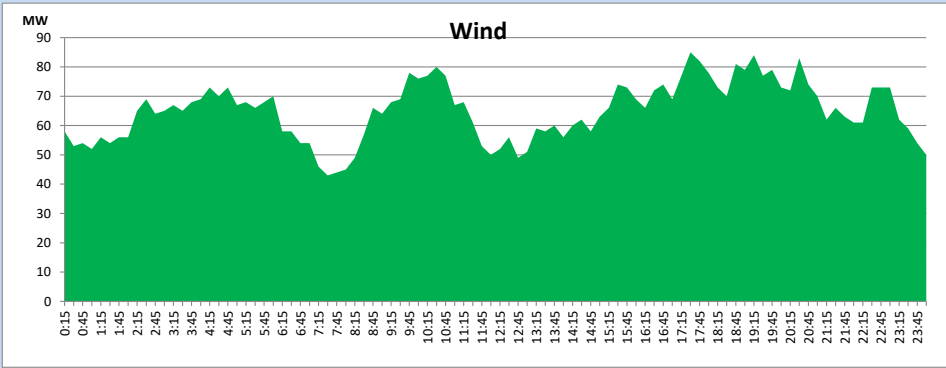
February 6, 2024



### Wind Generation during

February 6, 2024

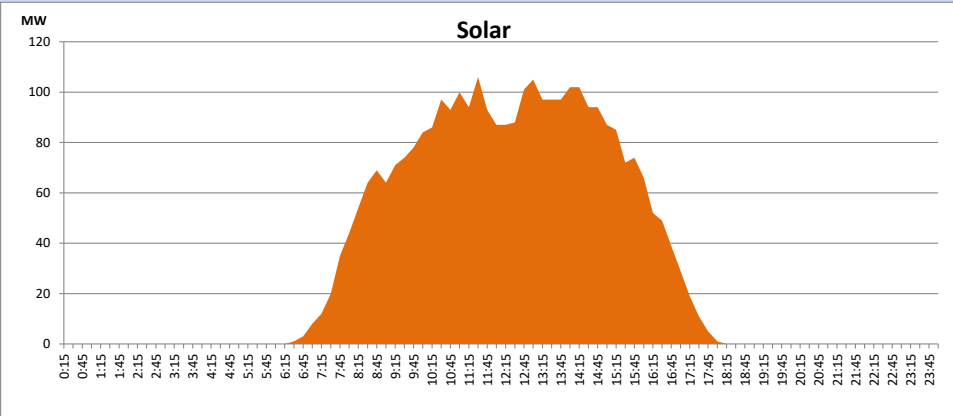
Based on Telemetered Power Stations only



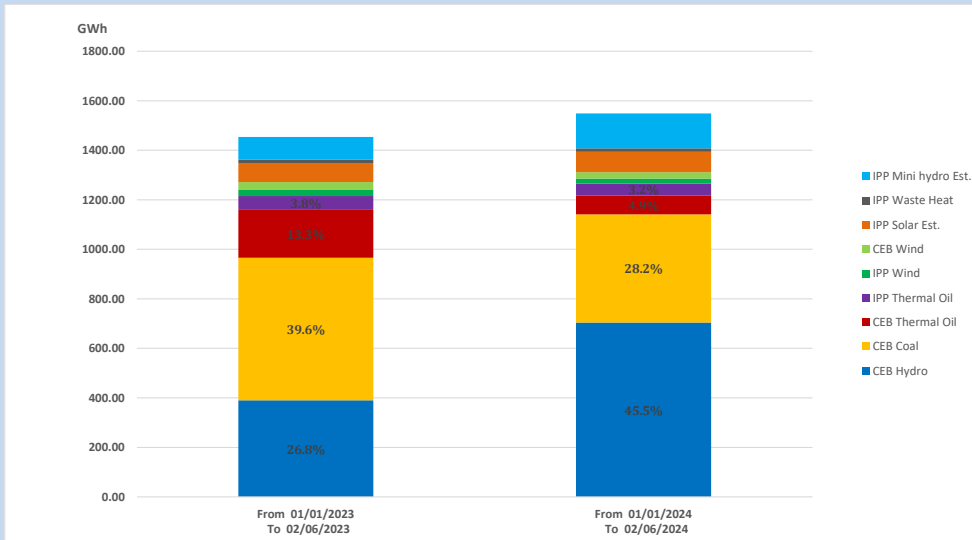
### Solar Generation during

February 6, 2024

Based on Telemetered Power Stations only



### 15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch  
 From 01/01/2023 To 02/06/2023  
 From 01/01/2024 To 02/06/2024

1454 GWh  
 1549 GWh

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

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 6, 2024

- 1) Ukuwela 132/33kV T/F 03 tripped from both sides at 11:13hrs due to the operation of earthing T/F Buchholz protection. Ukuwela 132/33kV T/F 03 was normalized at 12:55hrs
- 2) Uma Oya unit 01 tripped at 13:56hrs rejecting 50MW from the system while generator testing was being carried on, causing the activation of UFLS stage (I). All affected feeders were restored by 14:03hrs.
- 3) LVPS Unit 02 availability limited to 220MW (net) from 16:50hrs, due to the malfunctioning of intercepting valve-01. LVPS Unit 02 reached full load at 19:53hrs