

# Generation and Reservoirs Statistics

February 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## 1. Daily Generation Mix in MWh

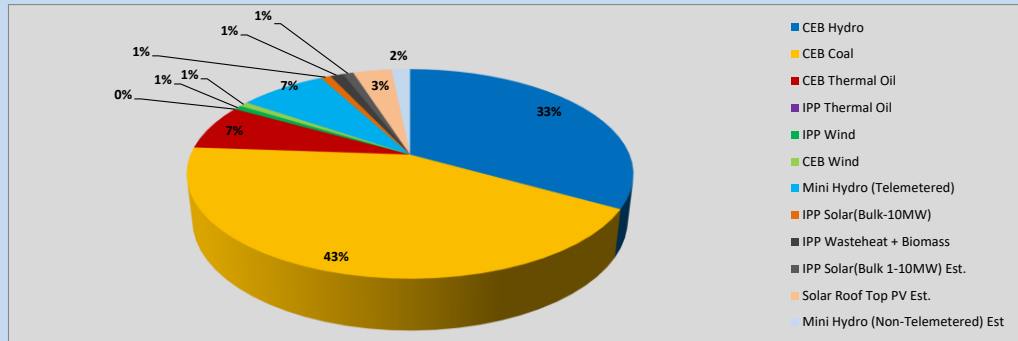


Table 01

	Generation (MWh)
CEB Hydro	14,619
CEB Coal	18,949
CEB Thermal Oil	3,094
IPP Thermal Oil	-
IPP Wind	302
CEB Wind	340
Mini Hydro (Telemetered)	3,327
IPP Solar (Bulk)	379
IPP Waste heat + Biomass	494
<b>Total Generation (Excluding estimated figures)</b>	<b>41,504</b>
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	709
* Estimated IPP Solar PV (Bulk 1-10MW)	405
* Estimated Solar Roof Top PV	1470
<b>Total Generation (Including estimated figures)</b>	<b>44,088</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	29	33.14%
CEB Coal	38	43.38%
CEB Thermal Oil	7	7.44%
IPP Thermal	0	0.00%
SPP Wind	0	0.54%
CEB Wind	1	0.66%
Mini Hydro *	8	8.94%
IPP Solar *	4	4.86%
IPP Waste heat + BMP	1	1.04%
<b>Total</b>	<b>88</b>	

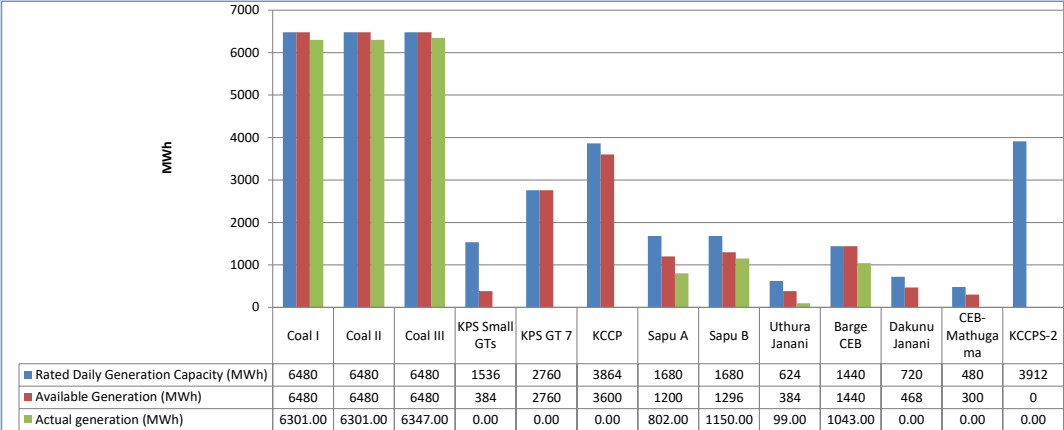
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	661	47.71%
CEB Coal	362	26.16%
CEB Thermal Oil	64	4.63%
IPP Thermal	46	3.30%
SPP Wind	17	1.23%
CEB Wind	22	1.62%
Mini Hydro *	127	9.17%
IPP Solar *	74	5.33%
IPP Waste heat	12	0.86%
<b>Total</b>	<b>1,385</b>	

\*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

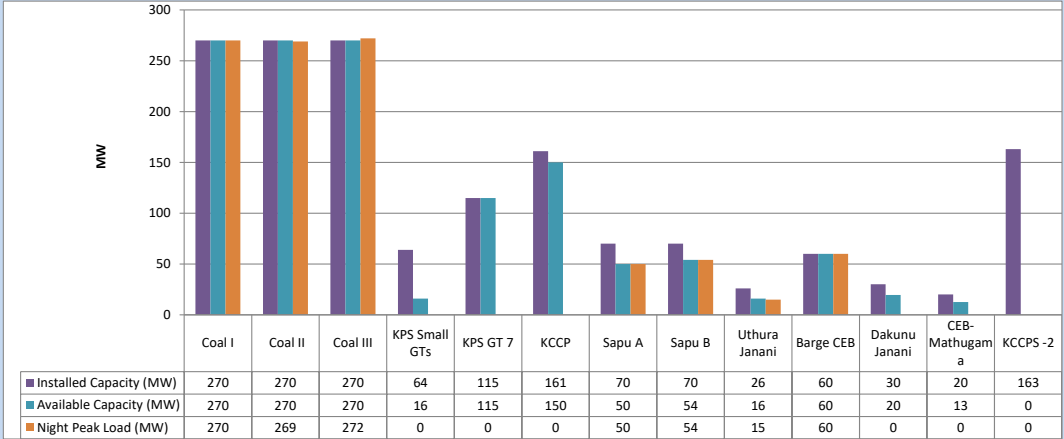
February 2, 2024



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

February 3, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

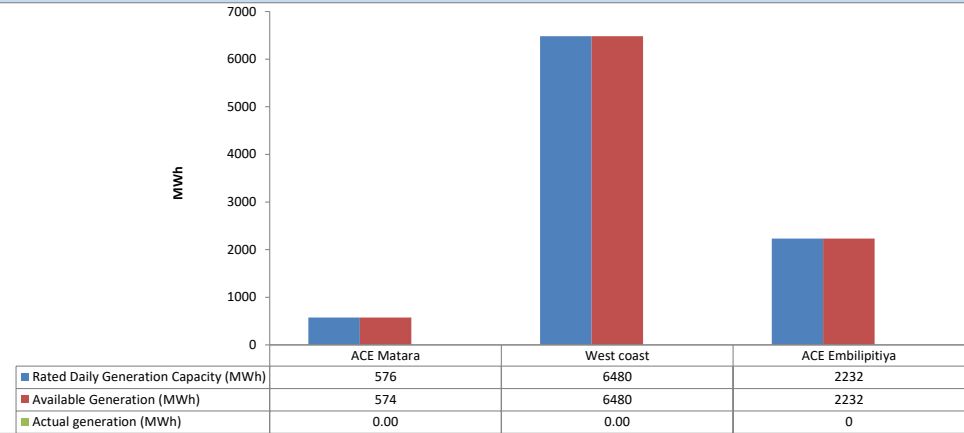


Plant availability is recorded at 6.00 am on

February 3, 2024

5. IPP owned Thermal Plant Dispatch

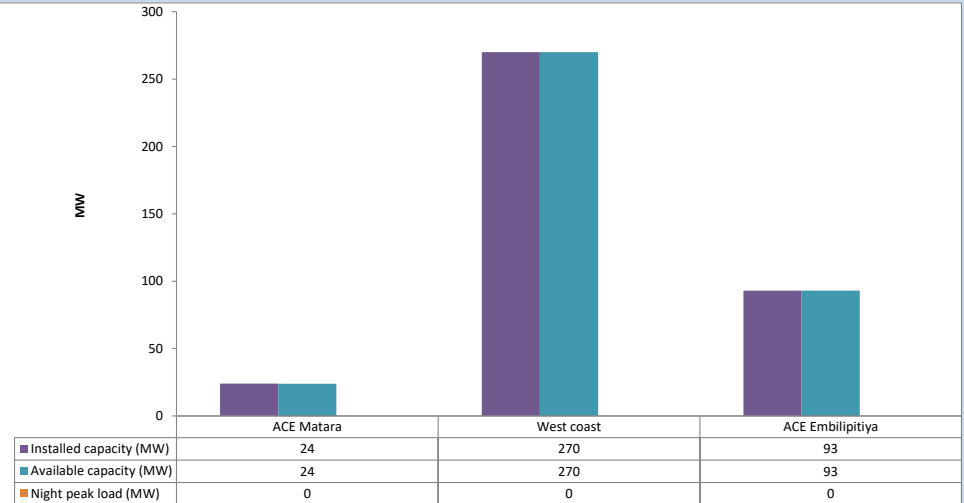
February 2, 2024



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

February 3, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

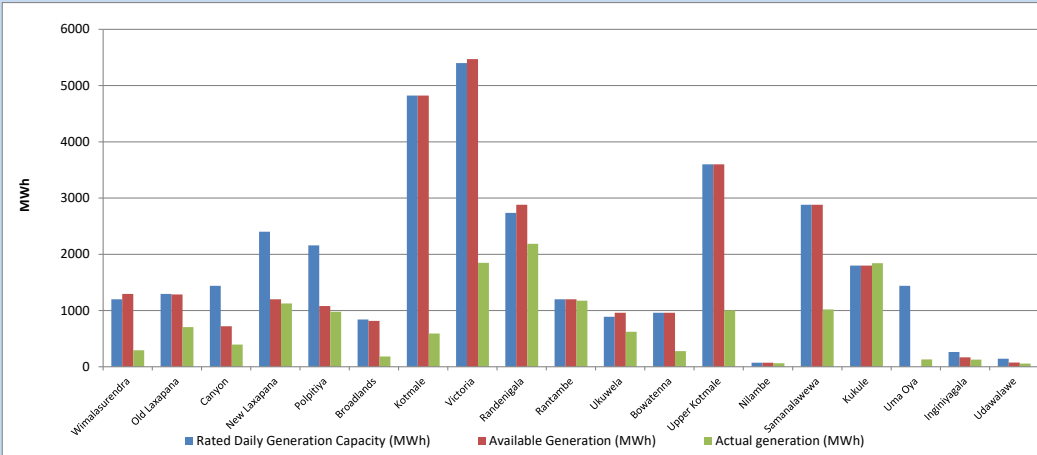


Plant availability is recorded at 6.00 am on

February 3, 2024

7. Major Hydro Plant Dispatch

February 2, 2024

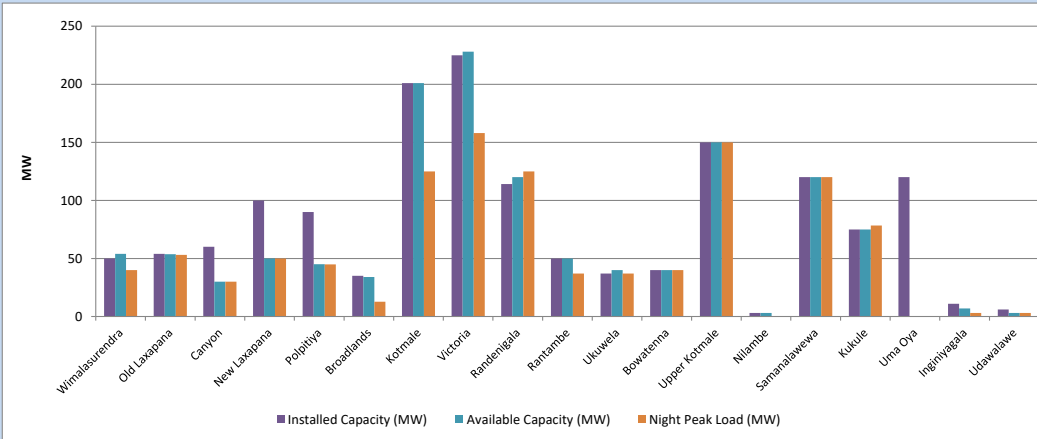


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

February 3, 2024

8. Major Hydro Plant Loading at Night Peak

February 2, 2024



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

February 3, 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	294
Old Laxapana	54	54	53	706
Canyon	60	30	30	394
New Laxapana	100	50	50	1,126
Polpitiya	90	45	45	980
Broadlands	35	34	13	182
Kotmale	201	201	125	590
Victoria	225	228	158	1,847
Randenigala	114	120	125	2,185
Rantambe	50	50	37	1,175
Ukuwela	37	40	37	623
Bowatenna	40	40	40	278
Upper Kotmale	150	150	150	1,003
Nilambe	3	3	0	62
Samanalawewa	120	120	120	1,018
Kukule	75	75	78	1,843
Uma Oya	120	0	0	129
Inginiyagala	11	7	3	127
Udawalawe	6	3	3	57
Puttalam Coal I	270	270	270	6,301
Puttalam Coal II	270	270	269	6,301
Puttalam Coal III	270	270	272	6,347
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	50	50	802
Sapugaskanda B	70	54	54	1,150
Uthura Janani	26	16	15	99
Barge CEB	60	60	60	1,043
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	3,603	2,994	2,276	41,504

Plant availability is the availability recorded at 6 am on

February 3, 2024

10. Contribution to the Night Peak in MW

February 2, 2024

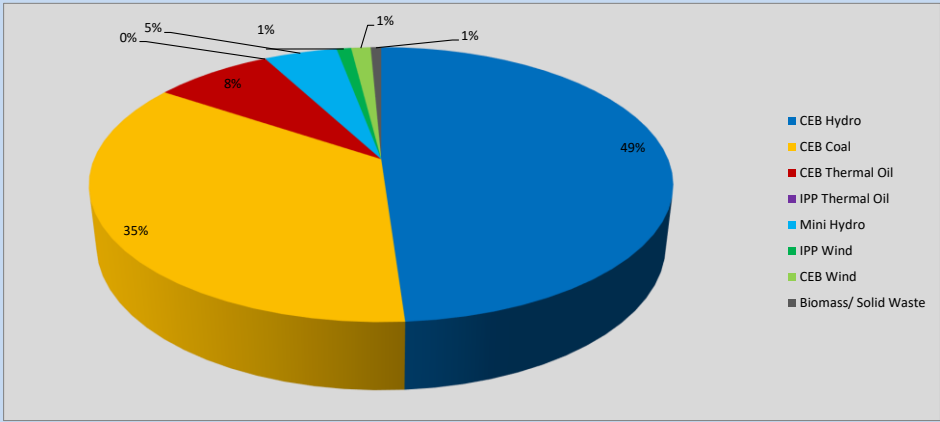


Table 06

CEB Hydro	1119	MW
CEB Coal	811	MW
CEB Thermal Oil	179	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	111	MW
IPP Wind	22.1	MW
CEB Wind	29.5	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

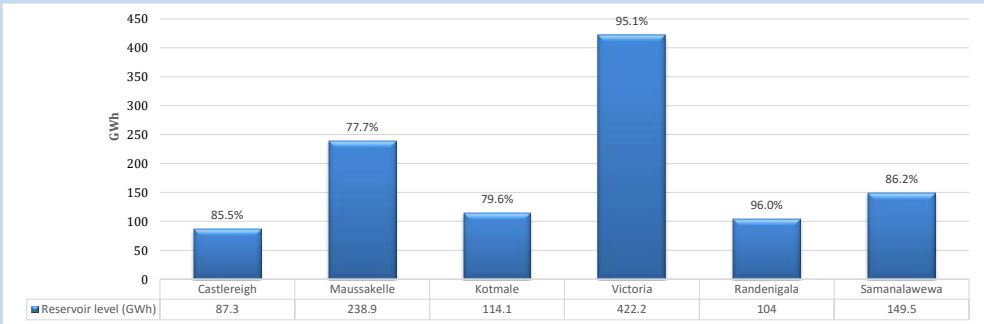
Table 07

Night Peak*	2,288	MW
Day Peak Maximum Demand	2,057	MW
Day Peak Minimum Demand	1,671	MW
Off Peak Minimum Demand	1,280	MW

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

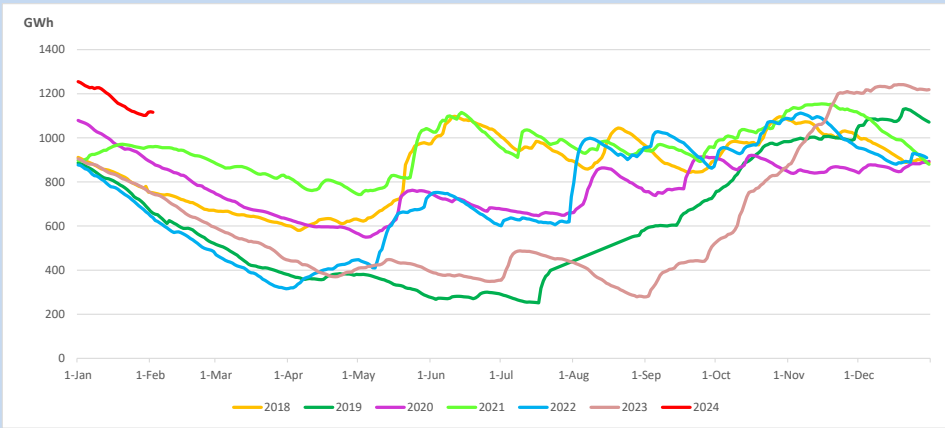
Reservoir Levels -

as at 06.00 Hr on February 3, 2024

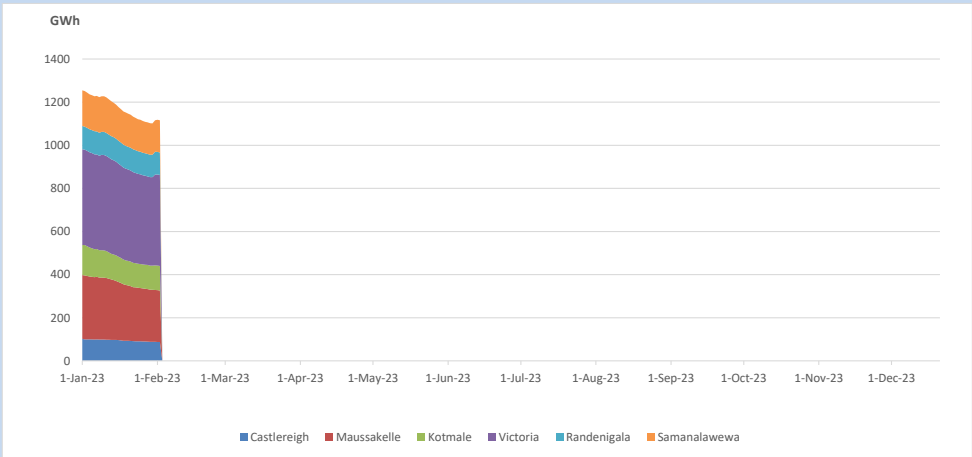


Total Reservoir Level 1116 GWh  
% of Total capacity 87.3%

11. Comparison of Total Reservoir Storage Levels with Past Years

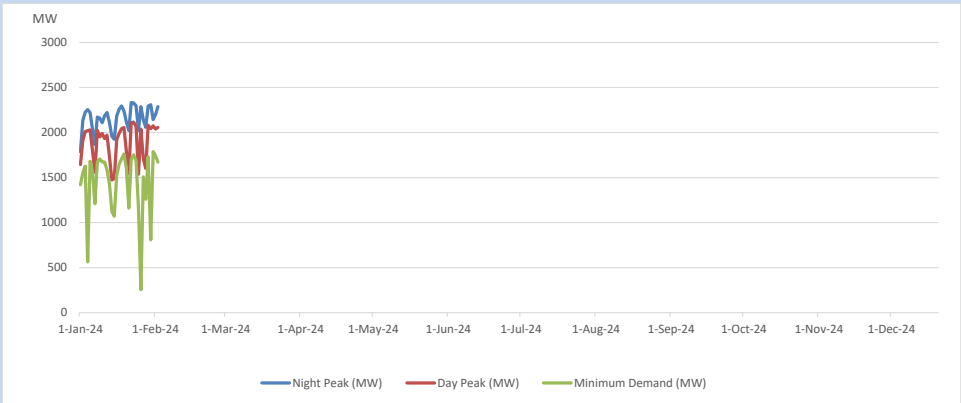


12. Variation of Major Hydro Reservoir Levels in the current year (GWh)





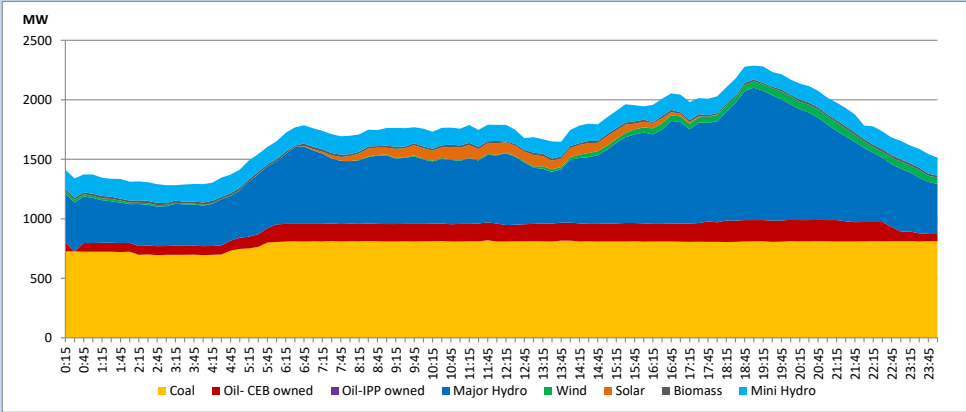
13. Variation of Demand during the current year



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

14. Daily Load Curve

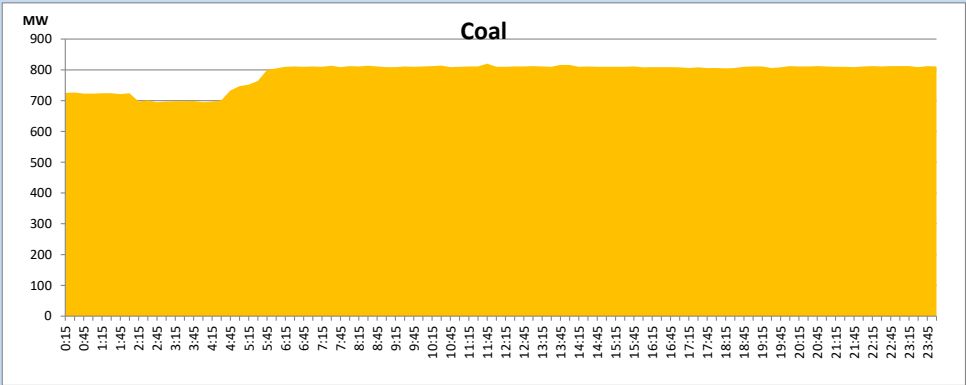
February 2, 2024



Solar and wind data is based on Telemetered Power Stations only

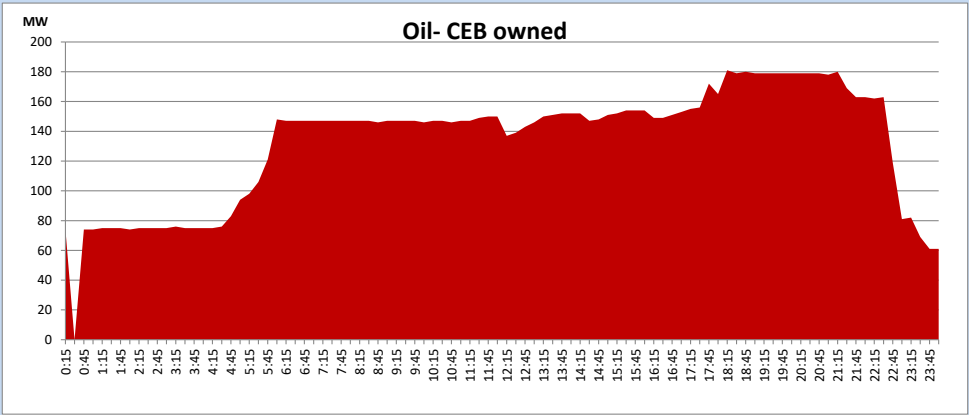
Coal Generation during

February 2, 2024



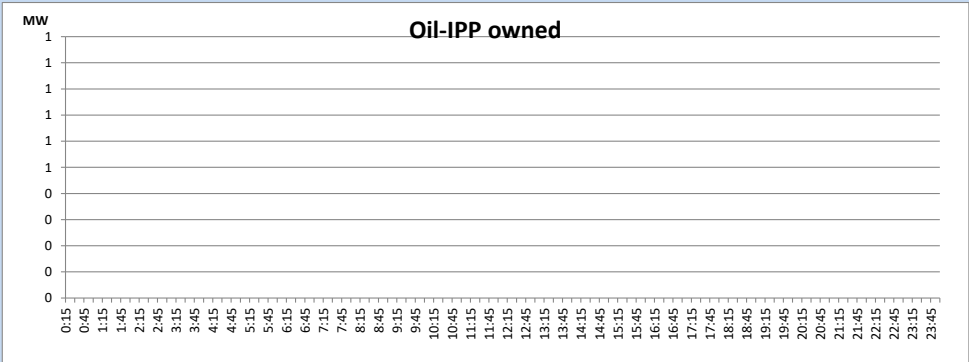
CEB Oil Plant Generation during

February 2, 2024



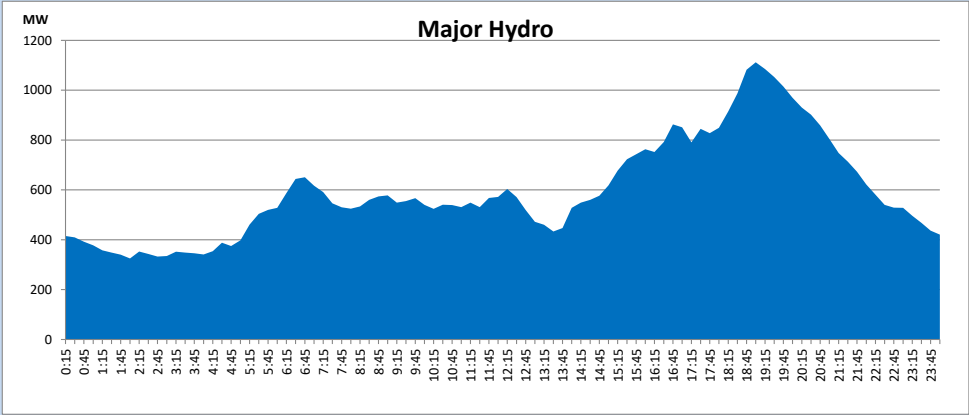
IPP Oil Plant Generation during

February 2, 2024



Major Hydro Generation during

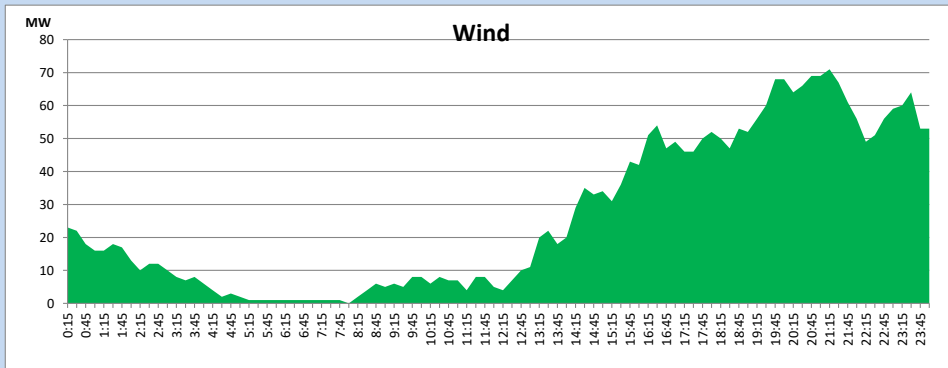
February 2, 2024



## Wind Generation during

February 2, 2024

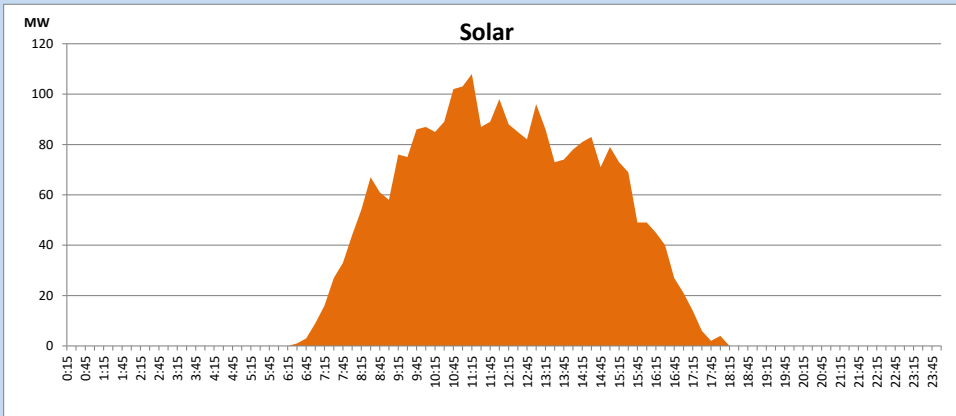
Based on Telemetered Power Stations only



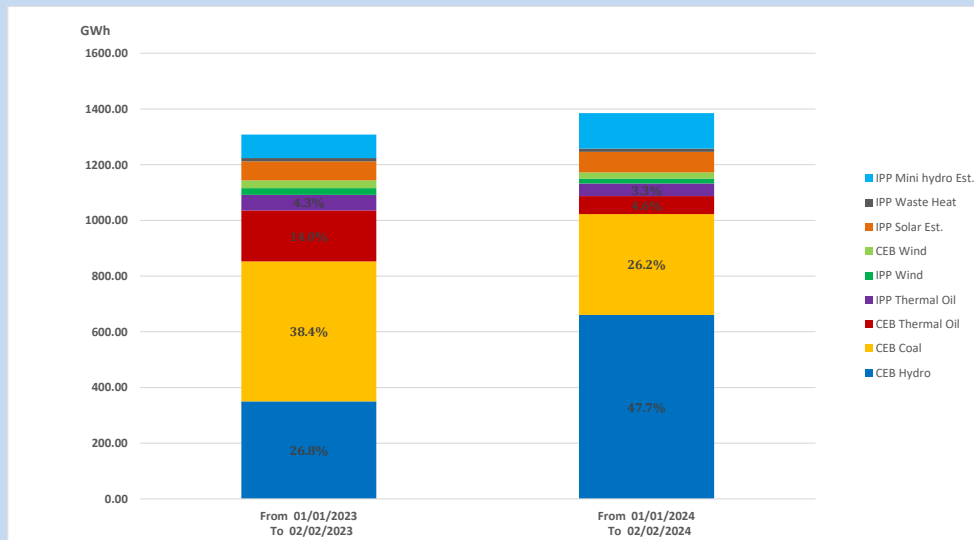
## Solar Generation during

February 2, 2024

Based on Telemetered Power Stations only



## 15. Cumulative Dispatch Comparison with Last Year



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

1308 GWh  
1385 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

February 2, 2024

- 1) Kiribathkumbura - Kurunegala 132kV cct 02 tripped and A/R from both ends at 12:50hrs due to the operation of differential protection