

Generation and Reservoirs Statistics

January 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

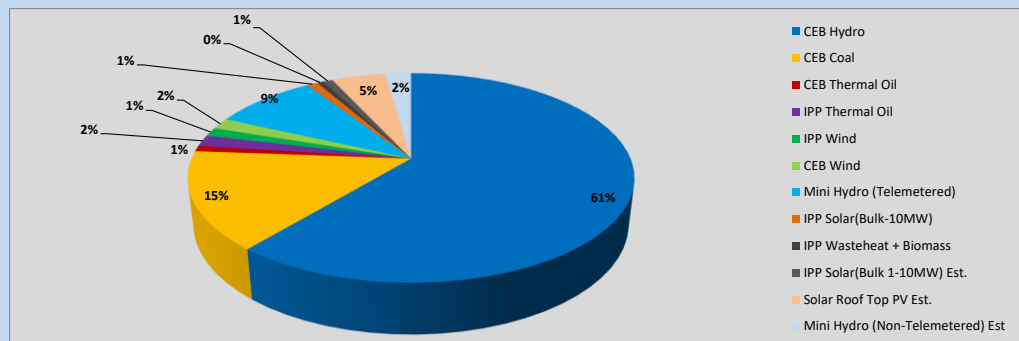


Table 01

	Generation (MWh)
CEB Hydro	21,684
CEB Coal	5,385
CEB Thermal Oil	311
IPP Thermal Oil	611
IPP Wind	478
CEB Wind	618
Mini Hydro (Telemetered)	3,176
IPP Solar (Bulk)	329
IPP Waste heat + Biomass	181
Total Generation (Excluding estimated figures)	32,773
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	802
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
Total Generation (Including estimated figures)	35,529

* 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	353	60.85%
CEB Coal	82	14.11%
CEB Thermal Oil	10	1.75%
IPP Thermal	20	3.39%
SPP Wind	8	1.34%
CEB Wind	11	1.86%
Mini Hydro *	62	10.67%
IPP Solar *	30	5.26%
IPP Waste heat + BMP	4	0.77%
Total	580	

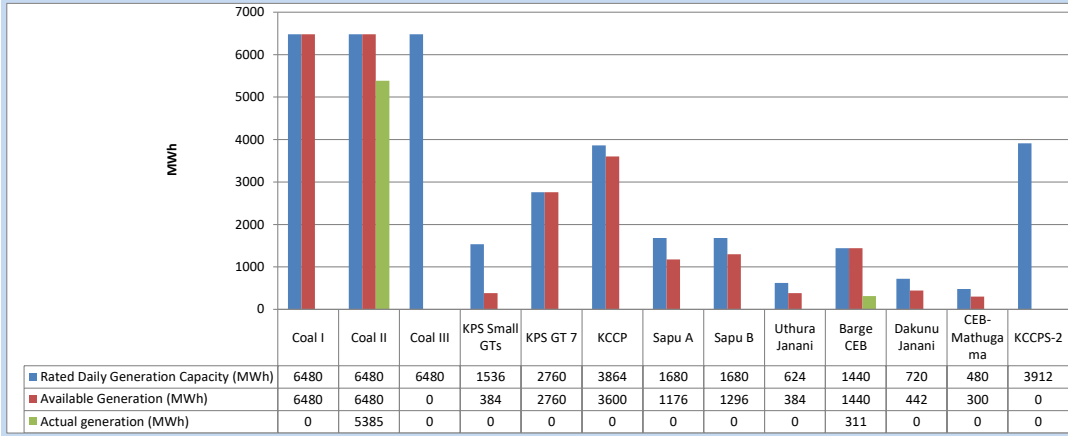
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	353	60.85%
CEB Coal	82	14.11%
CEB Thermal Oil	10	1.75%
IPP Thermal	20	3.39%
SPP Wind	8	1.34%
CEB Wind	11	1.86%
Mini Hydro *	62	10.67%
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IPP Waste heat	4	0.77%
Total	580	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

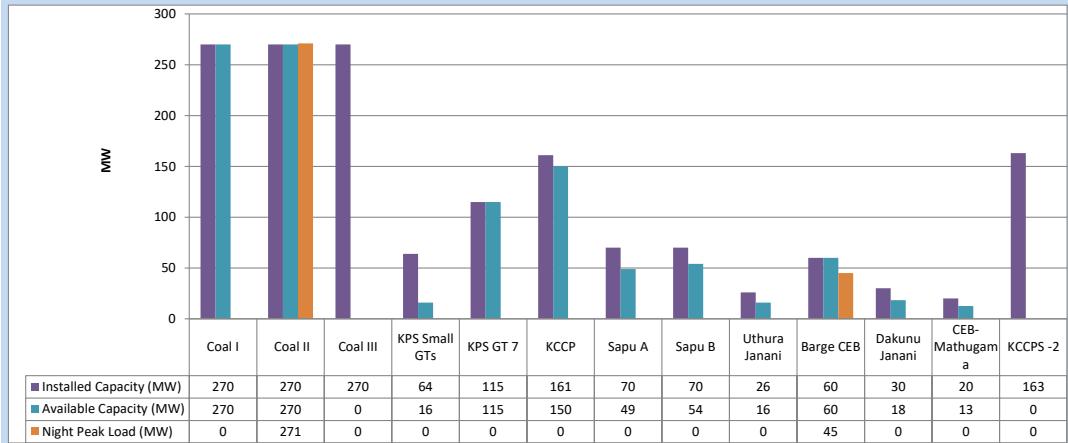
January 14, 2024



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

January 15, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

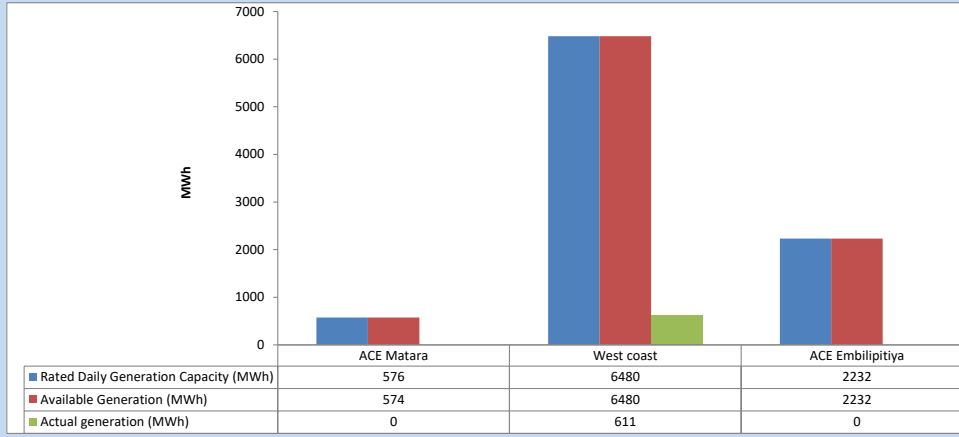


Plant availability is recorded at 6.00 am on

January 15, 2024

5. IPP owned Thermal Plant Dispatch

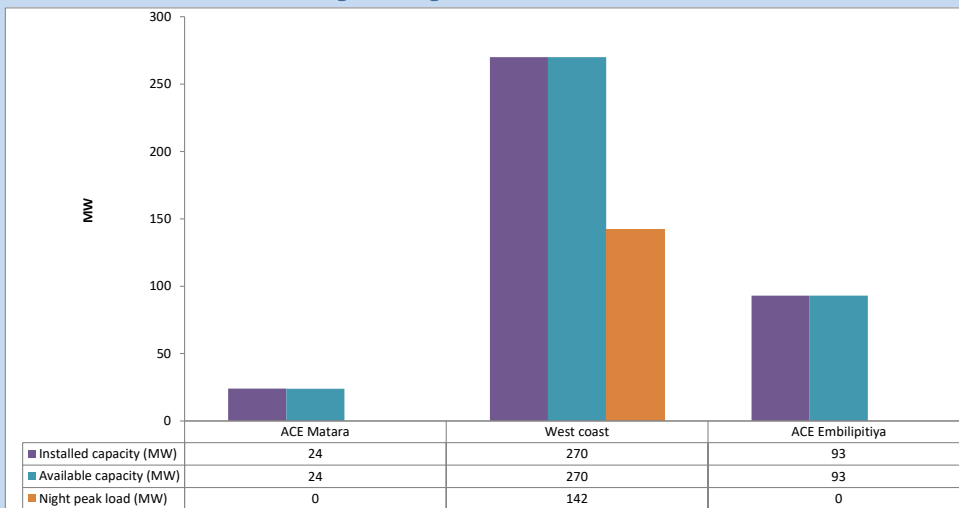
January 14, 2024



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

January 15, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

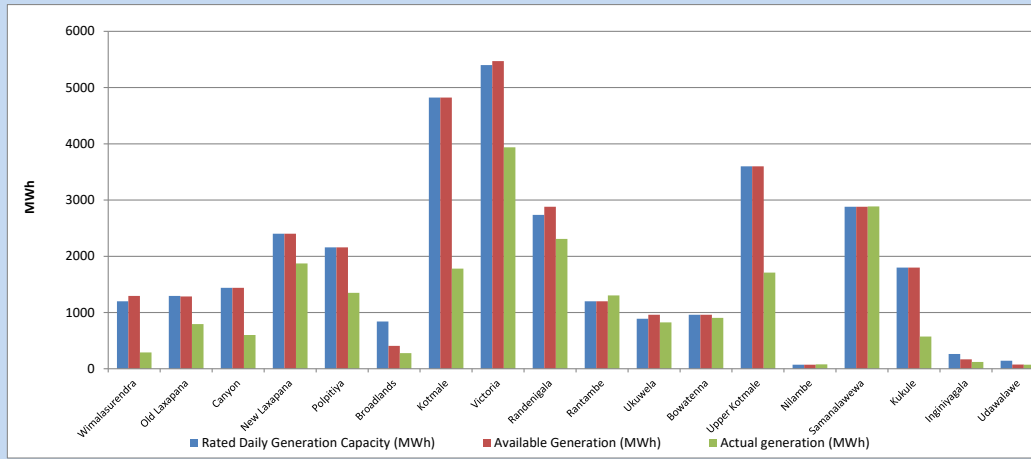


Plant availability is recorded at 6.00 am on

January 15, 2024

7. Major Hydro Plant Dispatch

January 14, 2024

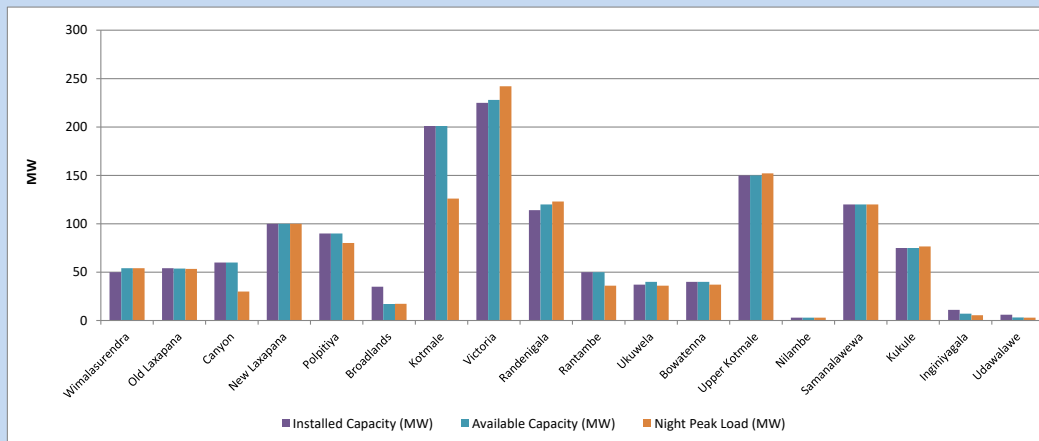


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

January 15, 2024

8. Major Hydro Plant Loading at Night Peak

January 14, 2024



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

January 15, 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	289
Old Laxapana	54	54	53	795
Canyon	60	60	30	601
New Laxapana	100	100	100	1,872
Polpitiya	90	90	80	1,350
Broadlands	35	17	17	278
Kotmale	201	201	126	1,780
Victoria	225	228	242	3,938
Randenigala	114	120	123	2,308
Rantambe	50	50	36	1,303
Ukuwela	37	40	36	824
Bowatenna	40	40	37	904
Upper Kotmale	150	150	152	1,711
Nilambe	3	3	3	78
Samanalawewa	120	120	120	2,888
Kukule	75	75	77	572
Inginiyagala	11	7	6	121
Udawalawe	6	3	3	72
Puttalam Coal I	270	270	0	0
Puttalam Coal II	270	270	271	5,385
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	0	0
Barge CEB	60	60	45	311
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	142	611
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,830	1,938	32,773

Plant availability is the availability recorded at 6 am on

January 15, 2024

10. Contribution to the Night Peak in MW

January 14, 2024

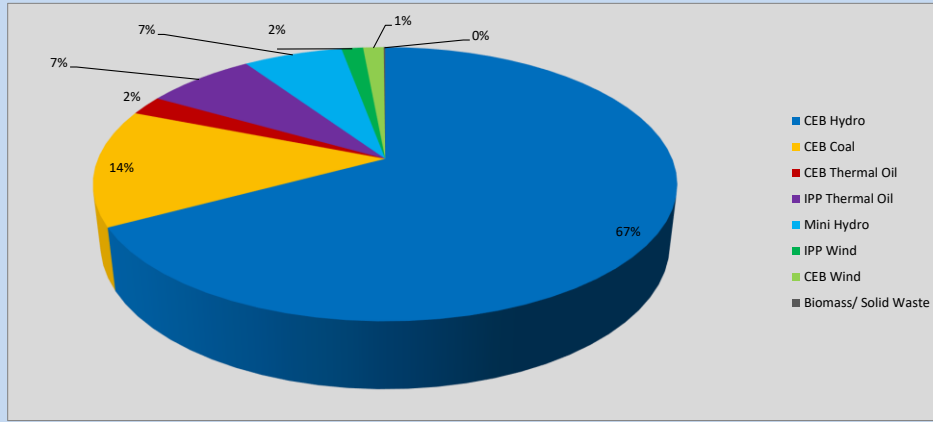


Table 06

CEB Hydro	1314	MW
CEB Coal	271	MW
CEB Thermal Oil	45	MW
IPP Thermal Oil	142	MW
Mini Hydro (Telemetered)	128	MW
IPP Wind	28	MW
CEB Wind	26.6	MW
Biomass/ Solid Waste	2	MW

Recorded Peak Demand Data

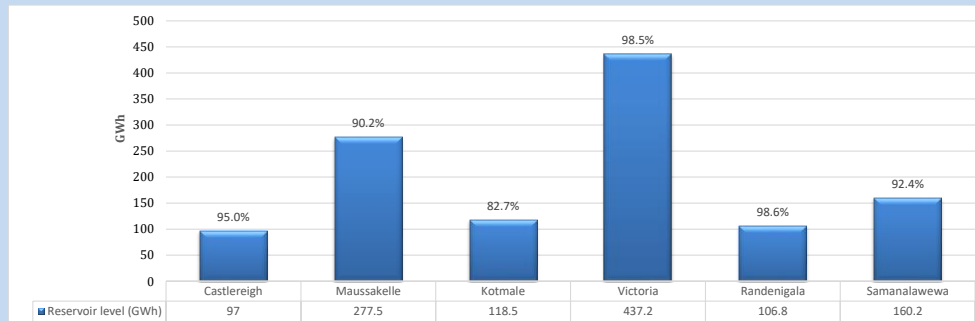
Table 07

Night Peak*	1,957	MW
Day Peak Maximum Demand	1,473	MW
Day Peak Minimum Demand	1,124	MW
Off Peak Minimum Demand	1,182	MW

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

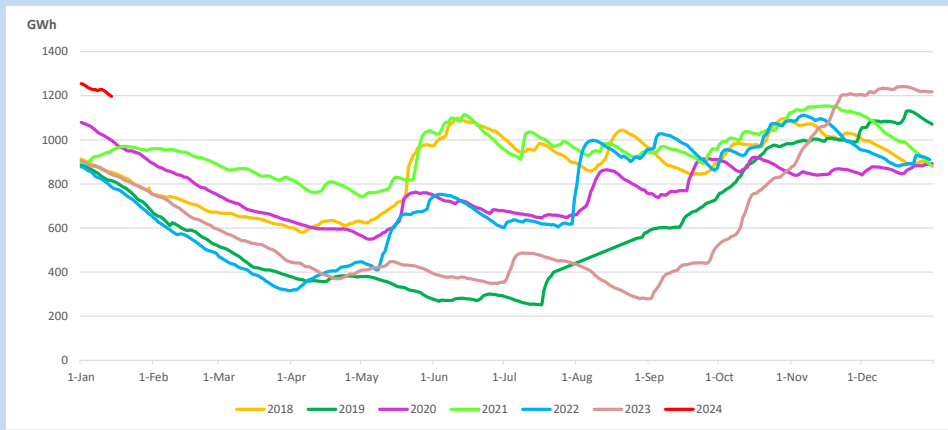
Reservoir Levels -

as at 06.00 Hr on January 15, 2024

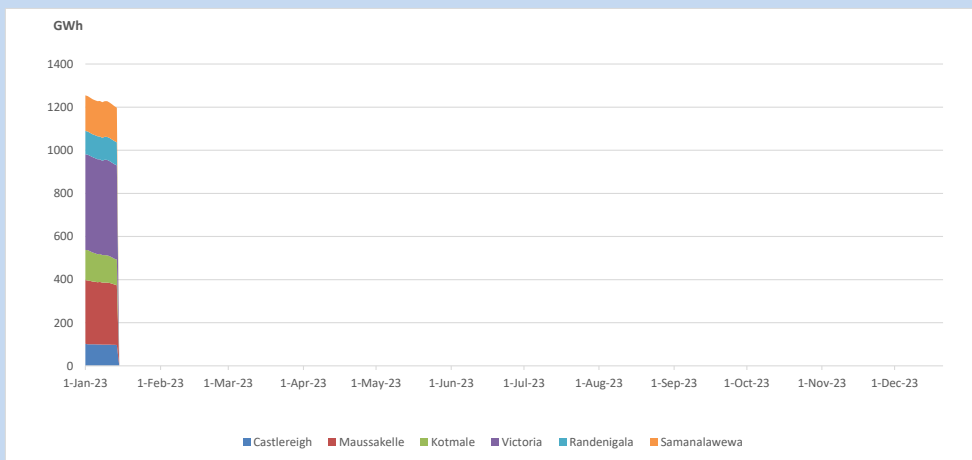


Total Reservoir Level 1197.2 GWh
% of Total capacity 93.6%

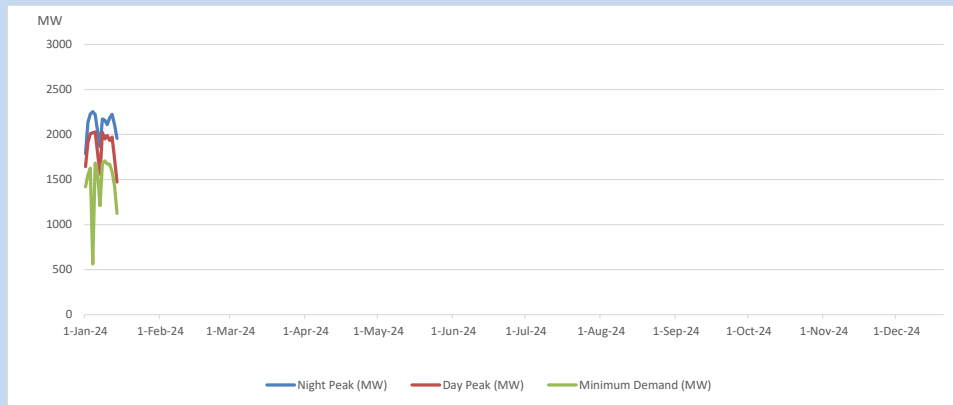
11. Comparison of Total Reservoir Storage Levels with Past Years



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



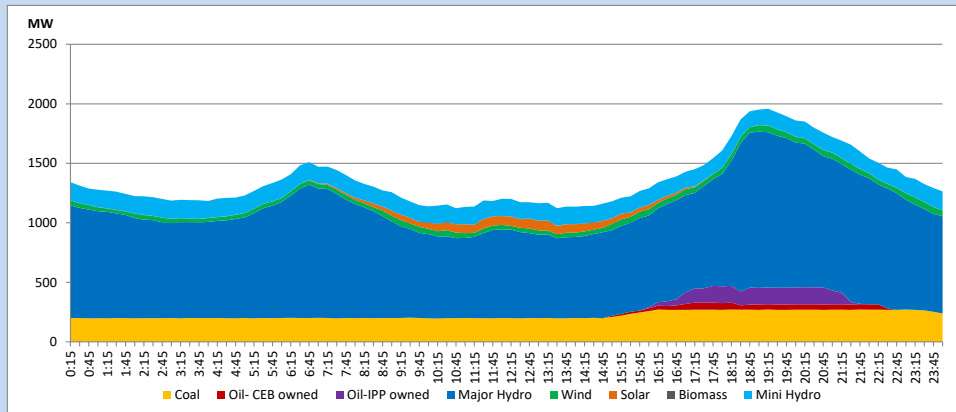
13. Variation of Demand during the current year



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

14. Daily Load Curve

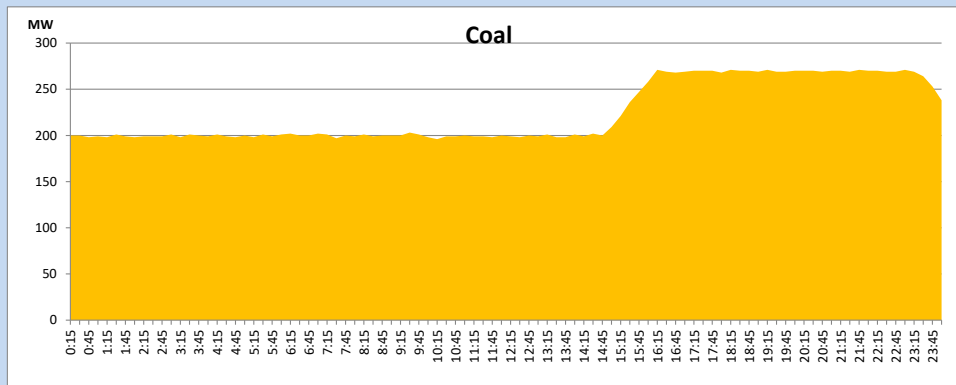
January 14, 2024



Solar and wind data is based on Telemetered Power Stations only

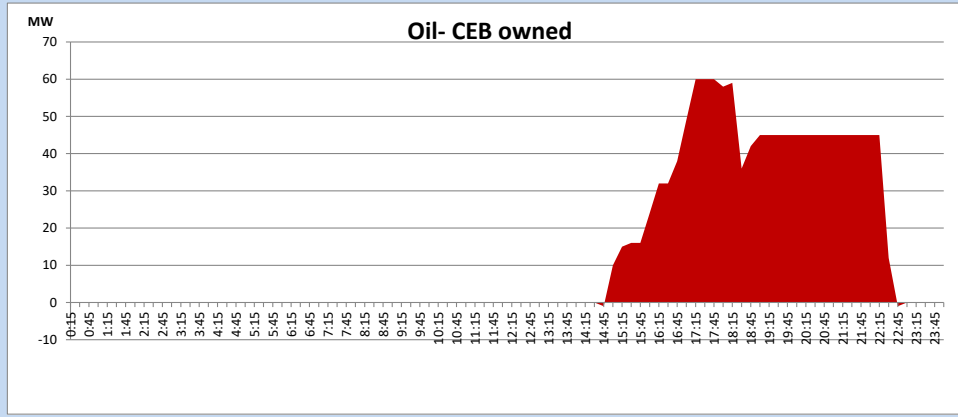
Coal Generation during

January 14, 2024



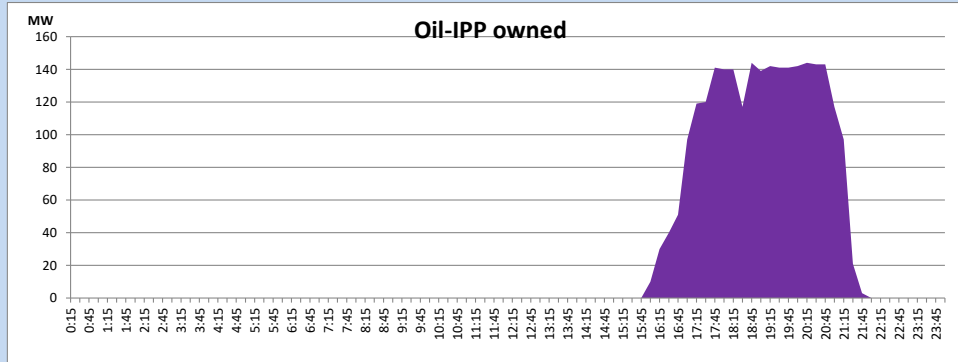
CEB Oil Plant Generation during

January 14, 2024



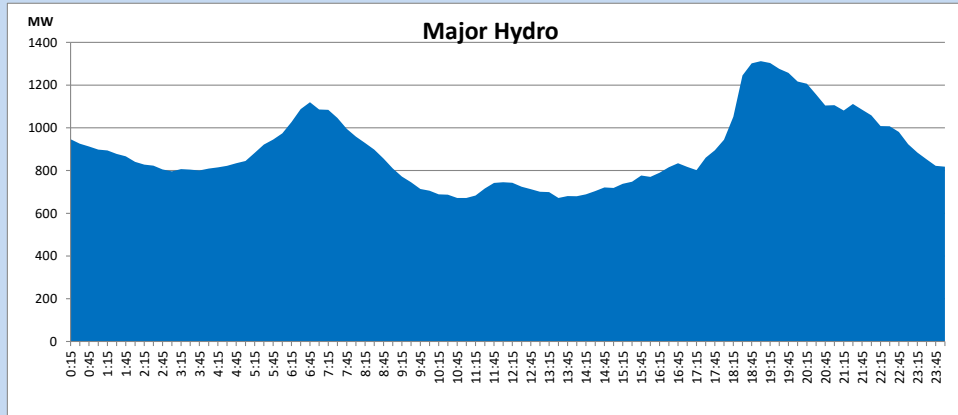
IPP Oil Plant Generation during

January 14, 2024



Major Hydro Generation during

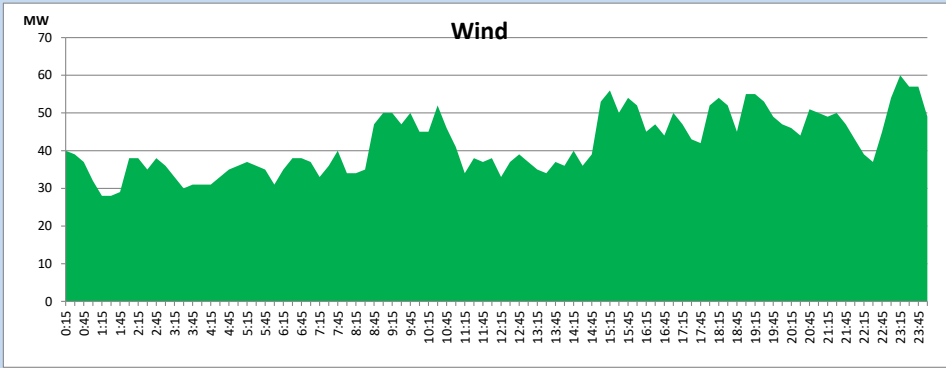
January 14, 2024



Wind Generation during

January 14, 2024

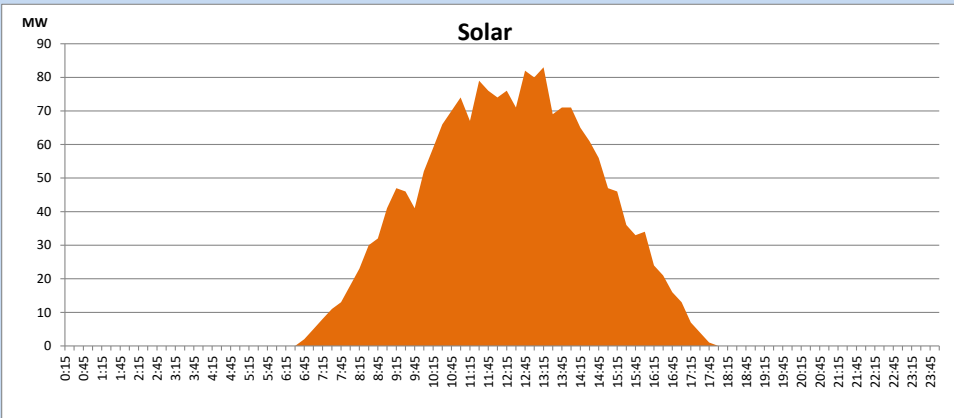
Based on Telemetered Power Stations only



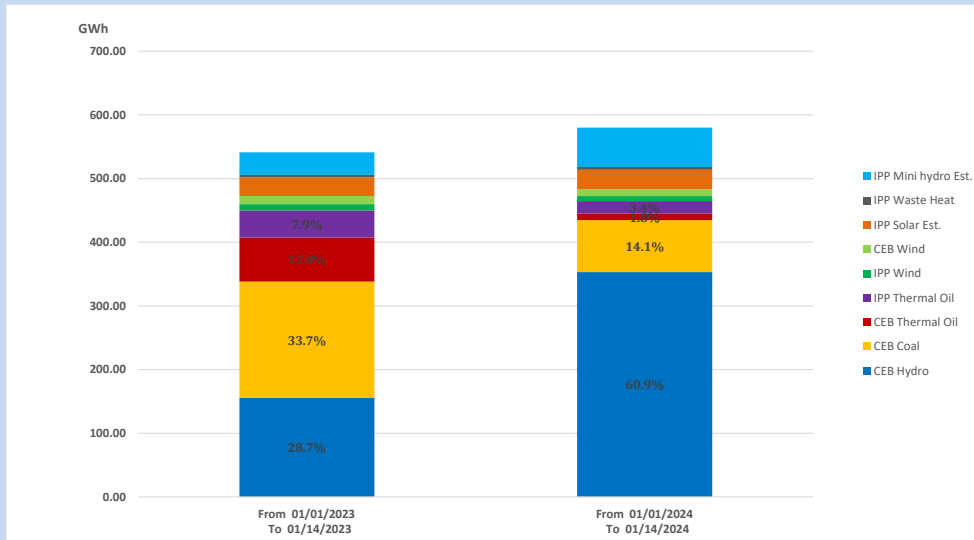
Solar Generation during

January 14, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 01/14/2023
 From 01/01/2024 To 01/14/2024

541 GWh
 580 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 14, 2024

- 1) Veyangoda 132/33kV T/F 03 which was tripped on 13.01.2024, energized at 14:50hrs
- 2) Rantambe pond spilled intermittently and spilling continues to the present hour
- 3) New Habarana - Valachchenai 132kV cct tripped and AR from both ends at 06:04hrs (15.01.2024) due to the operation of distance protection