

Generation and Reservoirs Statistics

January 17, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

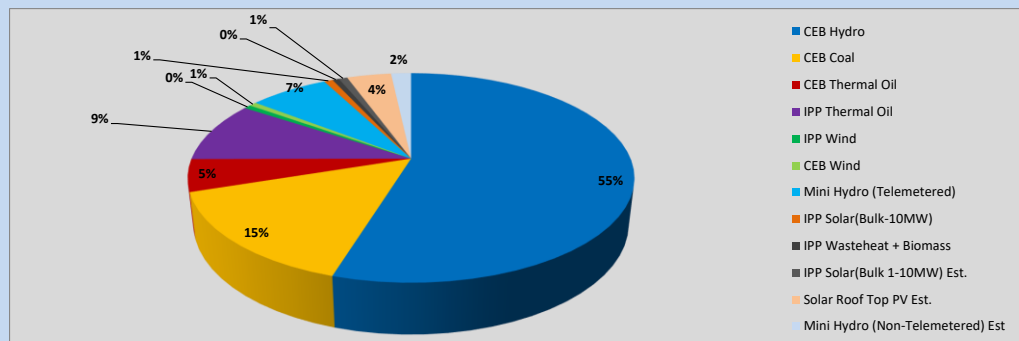


Table 01

	Generation (MWh)
CEB Hydro	23,581
CEB Coal	6,535
CEB Thermal Oil	2,142
IPP Thermal Oil	4,022
IPP Wind	260
CEB Wind	279
Mini Hydro (Telemetered)	2,950
IPP Solar (Bulk)	326
IPP Waste heat + Biomass	245
Total Generation (Excluding estimated figures)	40,340
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	745
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
Total Generation (Including estimated figures)	43,039

* 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	420	60.16%
CEB Coal	100	14.28%
CEB Thermal Oil	14	1.95%
IPP Thermal	28	4.03%
SPP Wind	9	1.27%
CEB Wind	12	1.71%
Mini Hydro *	73	10.48%
IPP Solar *	37	5.34%
IPP Waste heat + BMP	5	0.78%
Total	698	

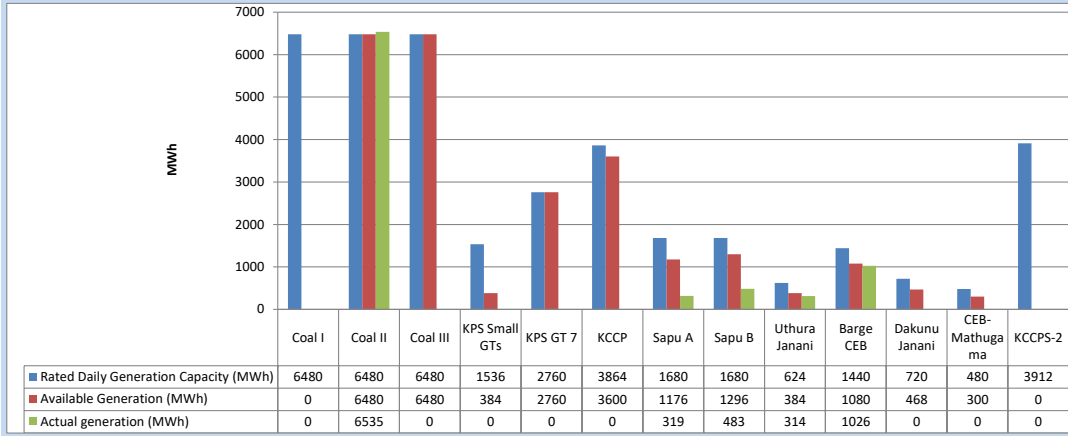
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	420	60.16%
CEB Coal	100	14.28%
CEB Thermal Oil	14	1.95%
IPP Thermal	28	4.03%
SPP Wind	9	1.27%
CEB Wind	12	1.71%
Mini Hydro *	73	10.48%
IPP Solar *	37	5.34%
IPP Waste heat	5	0.78%
Total	698	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

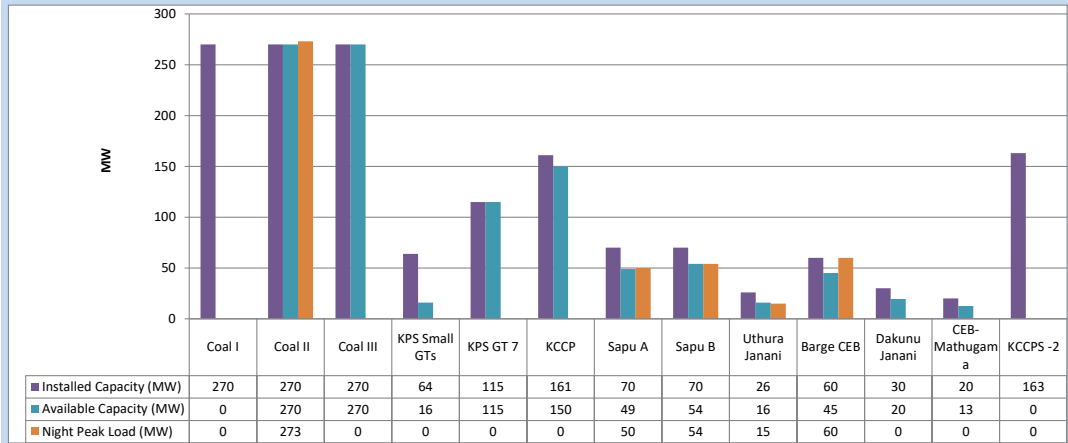
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Available Generation is estimated based on plant availability at 6.00am on

January 18, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

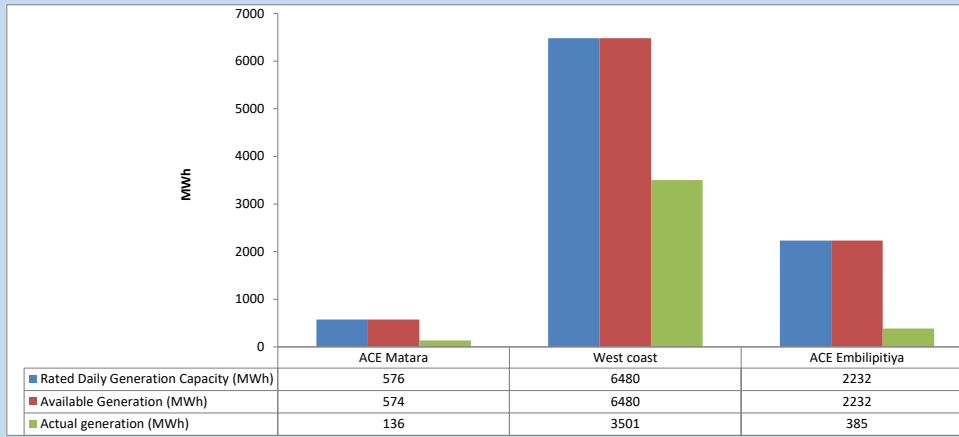


Plant availability is recorded at 6.00 am on

January 18, 2024

5. IPP owned Thermal Plant Dispatch

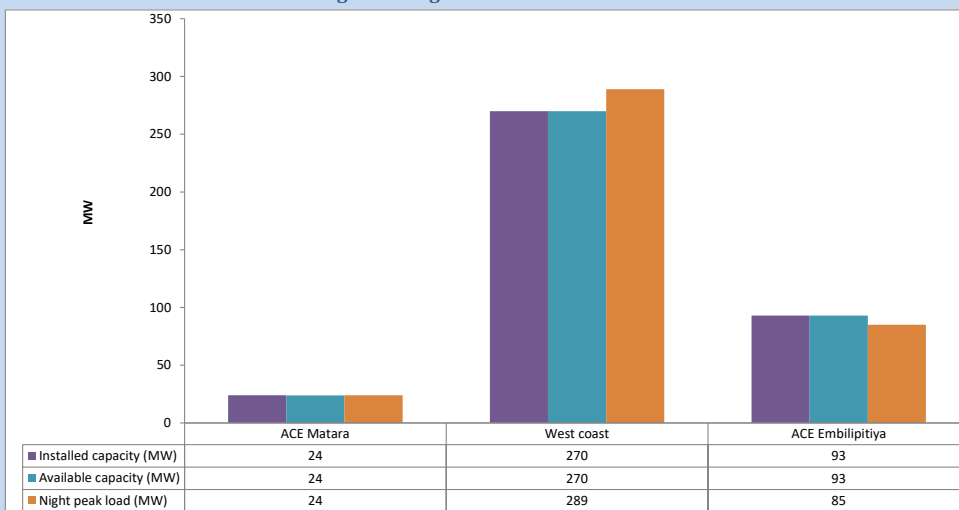
January 17, 2024



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

January 18, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

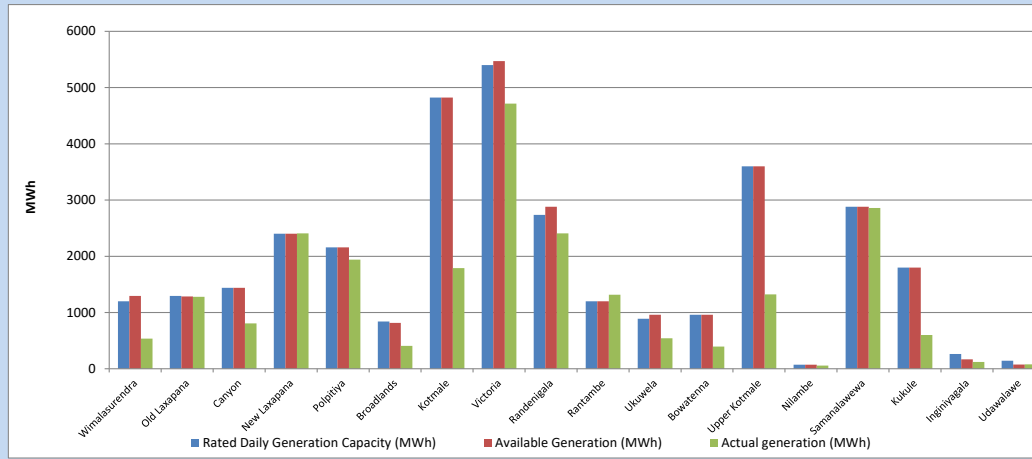


Plant availability is recorded at 6.00 am on

January 18, 2024

7. Major Hydro Plant Dispatch

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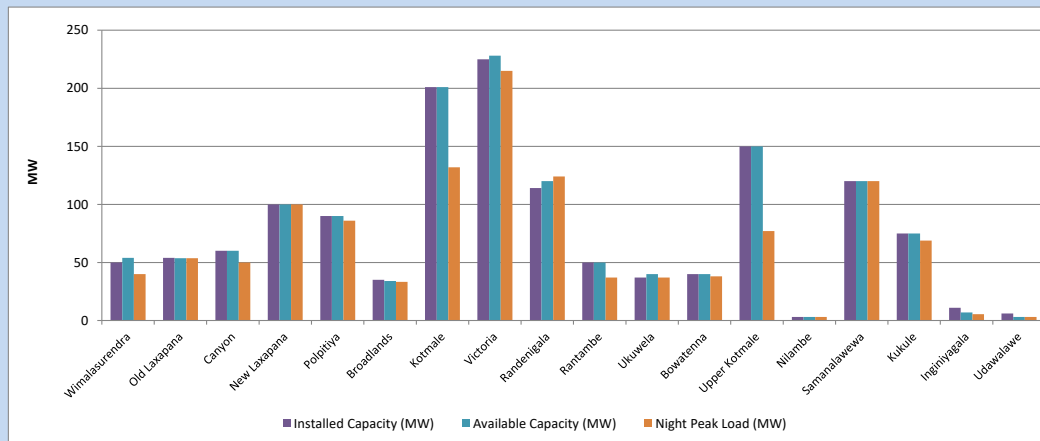


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

January 18, 2024

8. Major Hydro Plant Loading at Night Peak

January 17, 2024



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

January 18, 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	536
Old Laxapana	54	54	54	1,281
Canyon	60	60	50	806
New Laxapana	100	100	100	2,407
Polpitiya	90	90	86	1,940
Broadlands	35	34	33	406
Kotmale	201	201	132	1,790
Victoria	225	228	215	4,714
Randenigala	114	120	124	2,406
Rantambe	50	50	37	1,317
Ukuwela	37	40	37	542
Bowatenna	40	40	38	396
Upper Kotmale	150	150	77	1,324
Nilambe	3	3	3	57
Samanalawewa	120	120	120	2,860
Kukule	75	75	69	600
Inginiyagala	11	7	6	122
Udawalawe	6	3	3	78
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	273	6,535
Puttalam Coal III	270	270	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	50	319
Sapugaskanda B	70	54	54	483
Uthura Janani	26	16	15	314
Barge CEB	60	45	60	1,026
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	24	136
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	270	289	3,501
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	85	385
Total	3,483	2,833	2,239	40,341

Plant availability is the availability recorded at 6 am on

January 18, 2024

10. Contribution to the Night Peak in MW

January 17, 2024

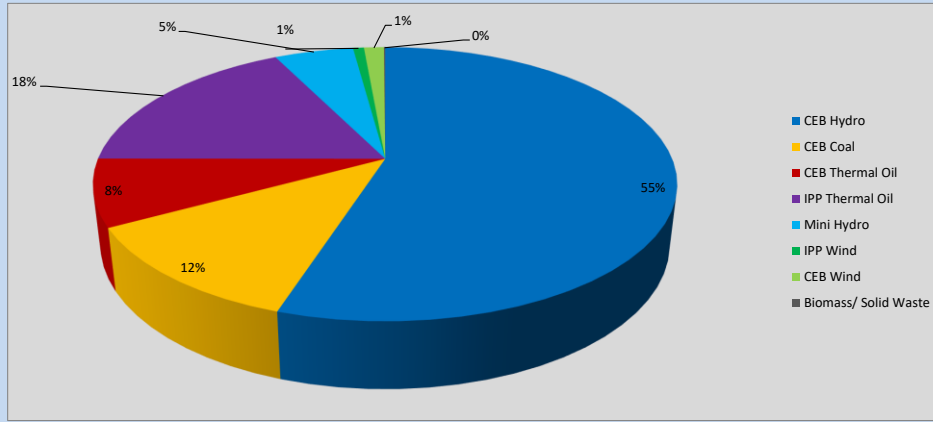


Table 06

CEB Hydro	1242	MW
CEB Coal	273	MW
CEB Thermal Oil	179	MW
IPP Thermal Oil	398	MW
Mini Hydro (Telemetered)	118	MW
IPP Wind	16.3	MW
CEB Wind	29.8	MW
Biomass/ Solid Waste	2	MW

Recorded Peak Demand Data

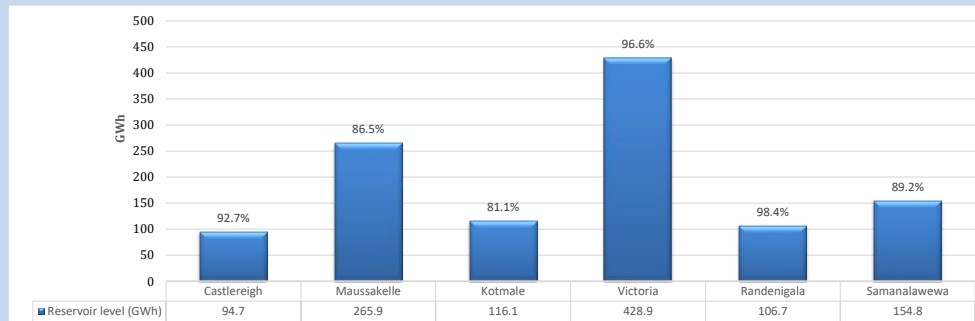
Table 07

Night Peak*	2,259	MW
Day Peak Maximum Demand	1,991	MW
Day Peak Minimum Demand	1,647	MW
Off Peak Minimum Demand	1,211	MW

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

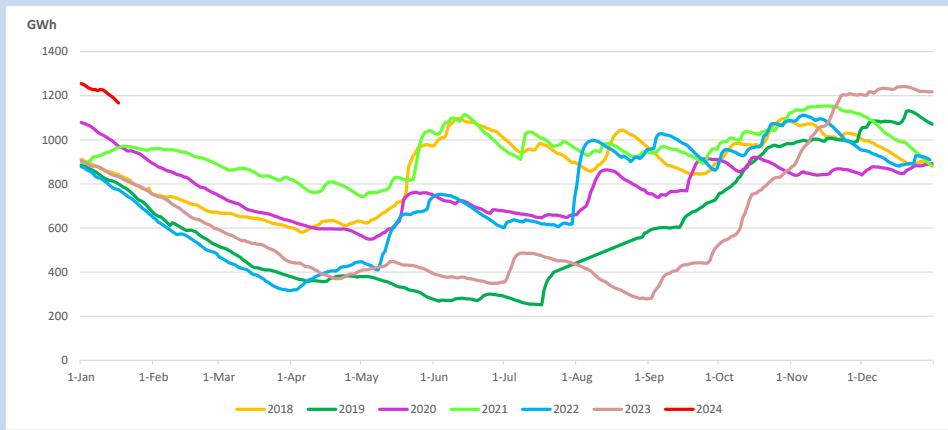
Reservoir Levels -

as at 06.00 Hr on January 18, 2024

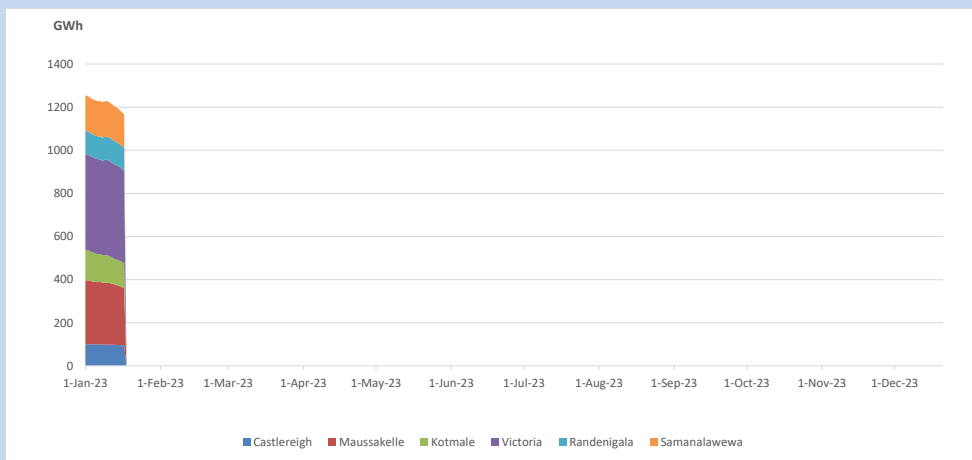


Total Reservoir Level 1167.1 GWh
% of Total capacity 91.3%

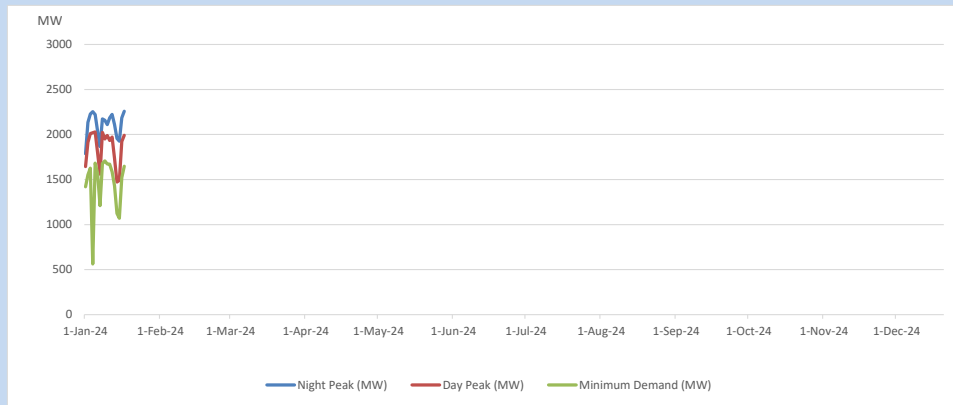
11. Comparison of Total Reservoir Storage Levels with Past Years



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



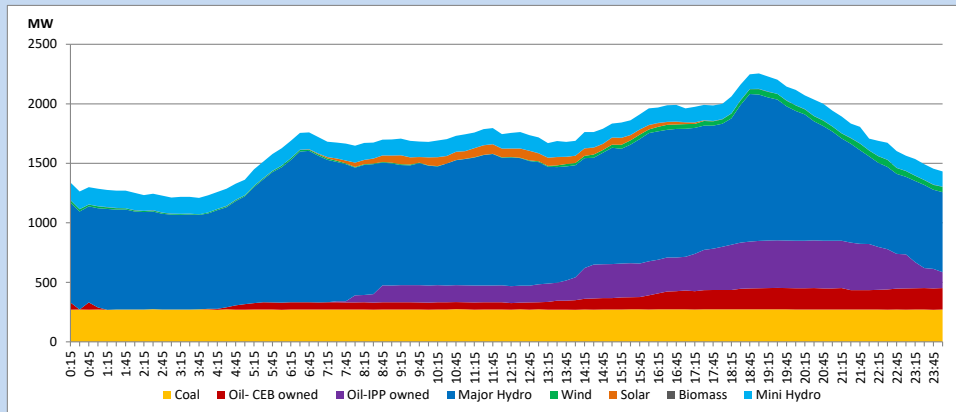
13. Variation of Demand during the current year



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

14. Daily Load Curve

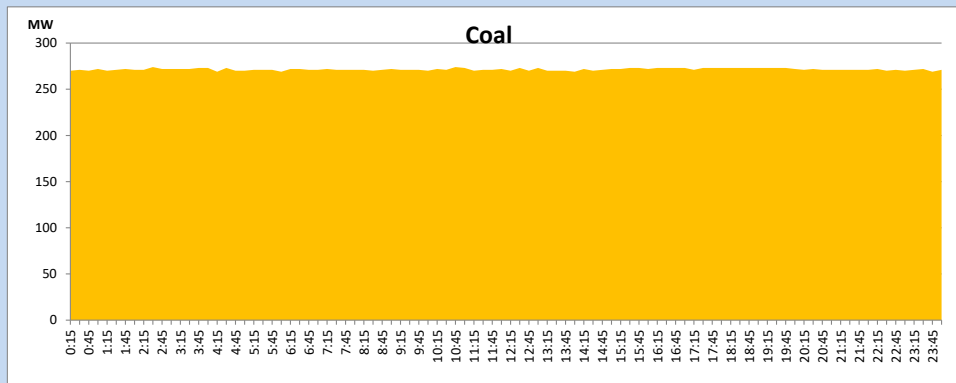
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Solar and wind data is based on Telemetered Power Stations only

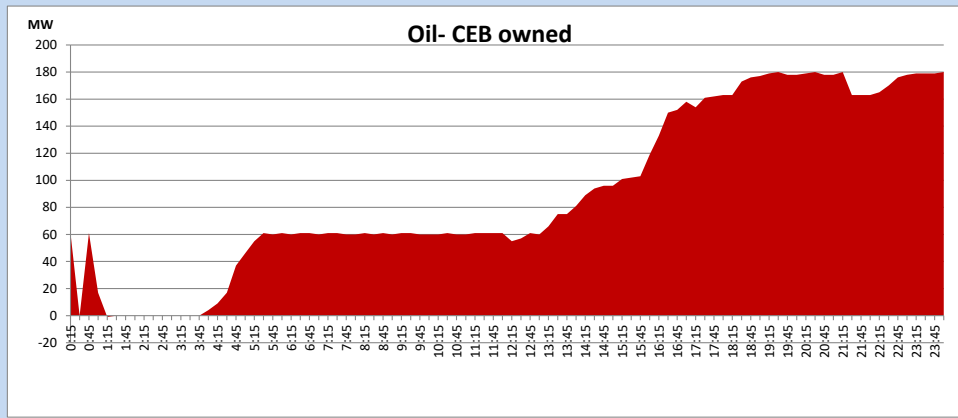
Coal Generation during

January 17, 2024



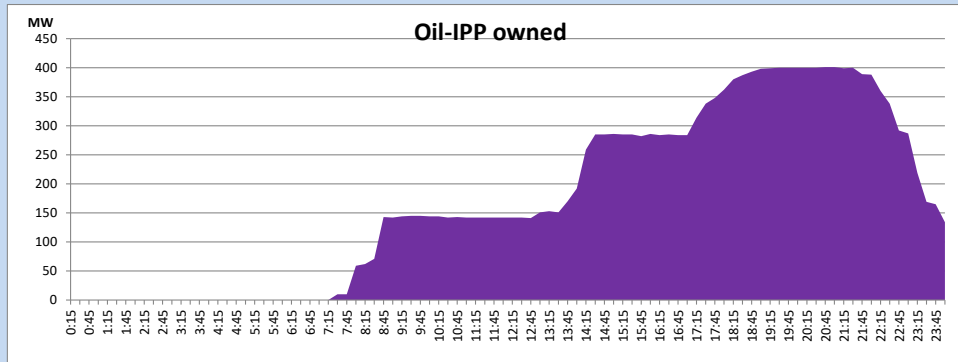
CEB Oil Plant Generation during

January 17, 2024



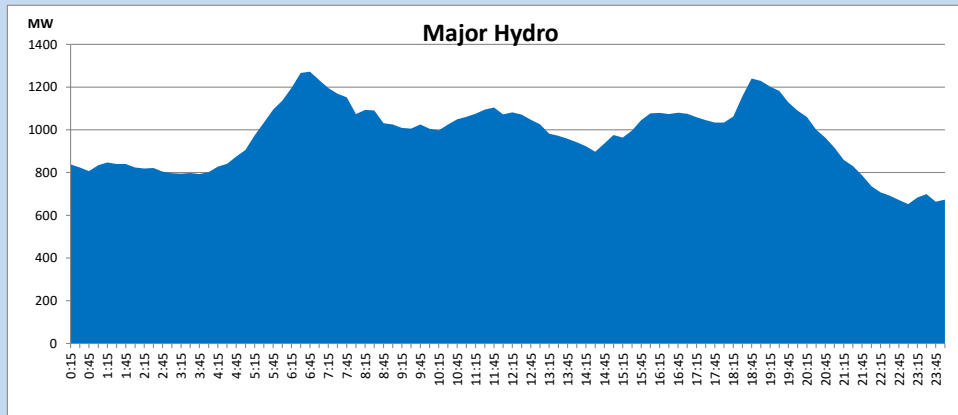
IPP Oil Plant Generation during

January 17, 2024



Major Hydro Generation during

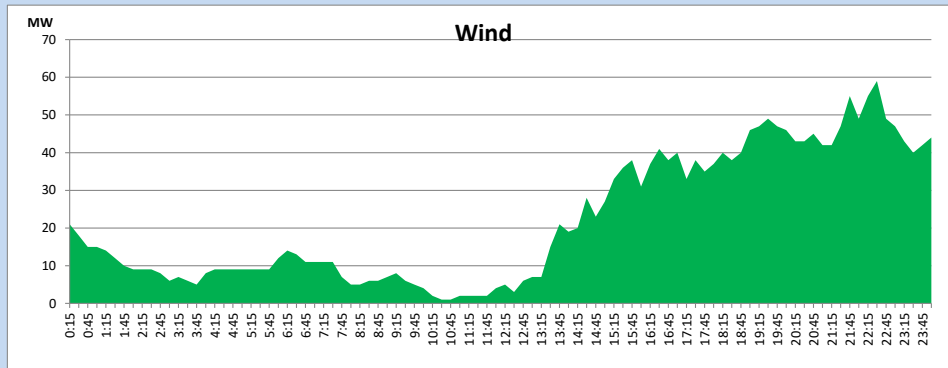
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Wind Generation during

January 17, 2024

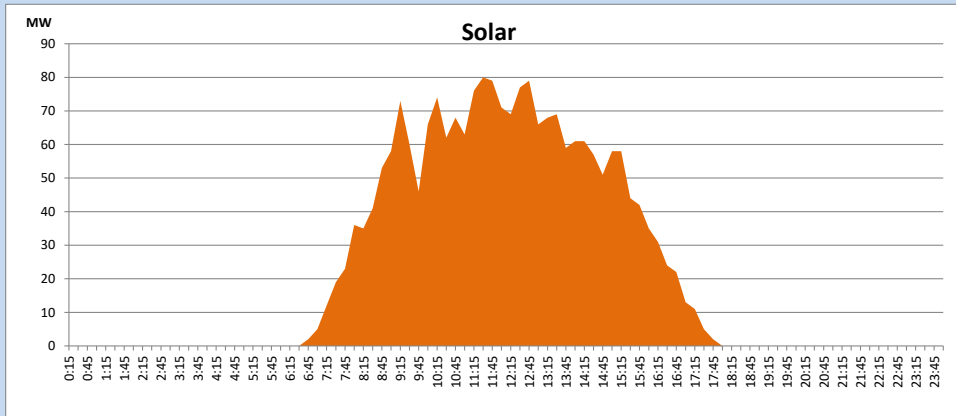
Based on Telemetered Power Stations only



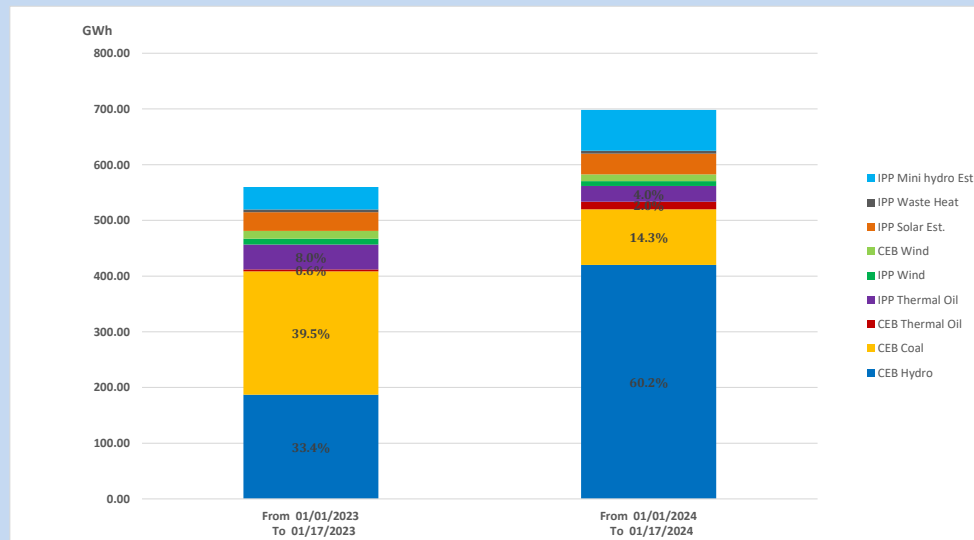
Solar Generation during

January 17, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 01/17/2023
 From 01/01/2024 To 01/17/2024

560 GWh
 698 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 17, 2024

- 1) LVPS unit 01 made forced shutdown during startup process at 11:25hrs due to the boiler drum leakage. The unit is yet to resume