

Generation and Reservoirs Statistics

March 21, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

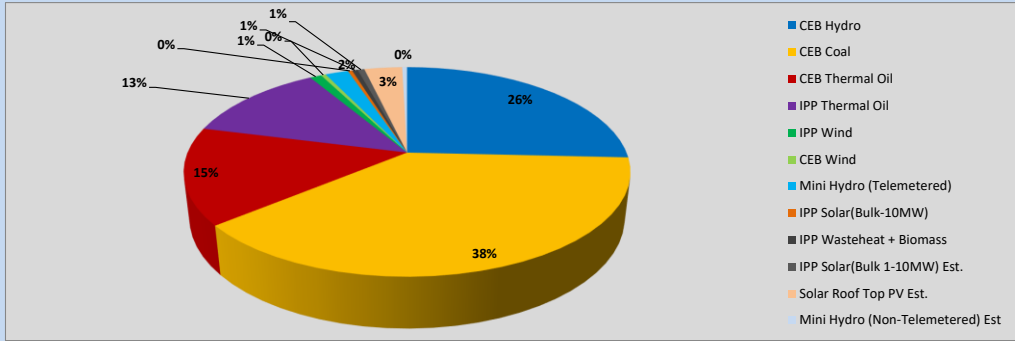


Table 01

	Generation (MWh)
CEB Hydro	13,134
CEB Coal	19,518
CEB Thermal Oil	7,630
IPP Thermal Oil	6,366
IPP Wind	509
CEB Wind	215
Mini Hydro (Telemetered)	1,016
IPP Solar (Bulk)	187
IPP Waste heat + Biomass	248
Total Generation (Excluding estimated figures)	48,823
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	216
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	51,013

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1644
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	270
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	293
Rooftop Solar (LT Bulk)	272
Rooftop Solar (HT Bulk)	74

Data Source - Monthly Review Report [Nov-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	239	22.89%
CEB Coal	424	40.58%
CEB Thermal Oil	160	15.29%
IPP Thermal	114	10.88%
SPP Wind	7	0.70%
CEB Wind	8	0.75%
Mini Hydro *	29	2.81%
IPP Solar *	55	5.30%
IPP Waste heat + BMP	8	0.79%
Total	1,044	

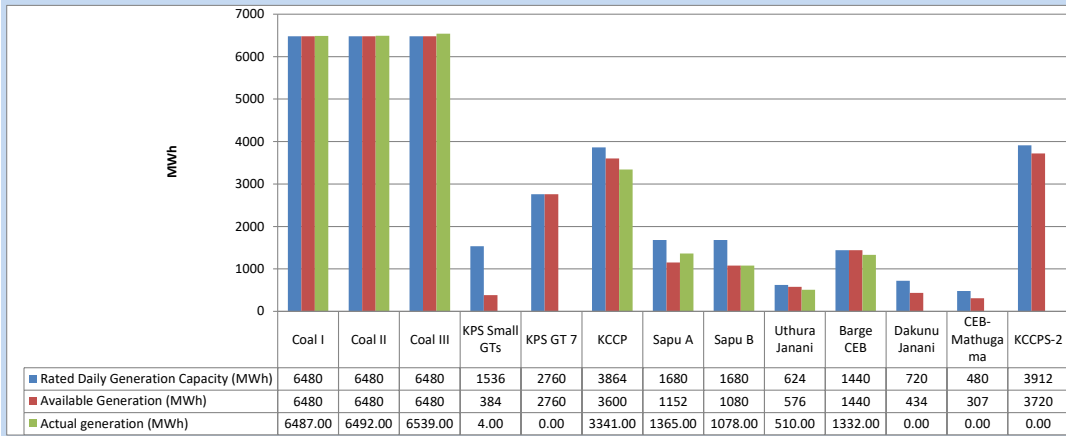
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,177	32.56%
CEB Coal	1,304	36.06%
CEB Thermal Oil	318	8.80%
IPP Thermal	282	7.81%
SPP Wind	43	1.20%
CEB Wind	52	1.44%
Mini Hydro *	220	6.09%
IPP Solar *	188	5.19%
IPP Waste heat	31	0.85%
Total	3,615	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

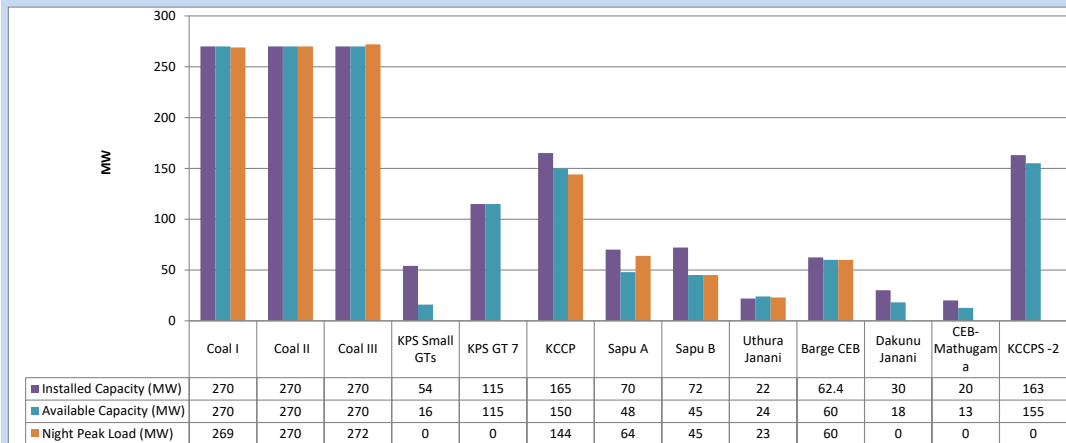
March 21, 2024



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

March 22, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

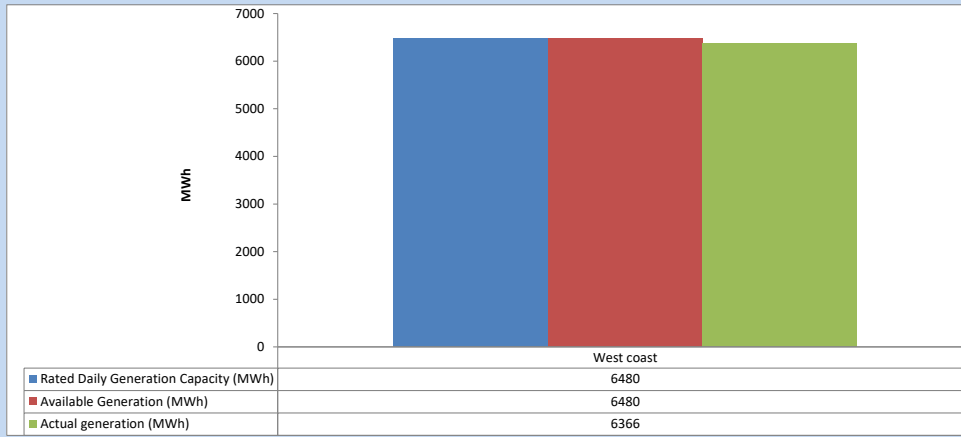


Plant availability is recorded at 6.00 am on

March 22, 2024

5. IPP owned Thermal Plant Dispatch

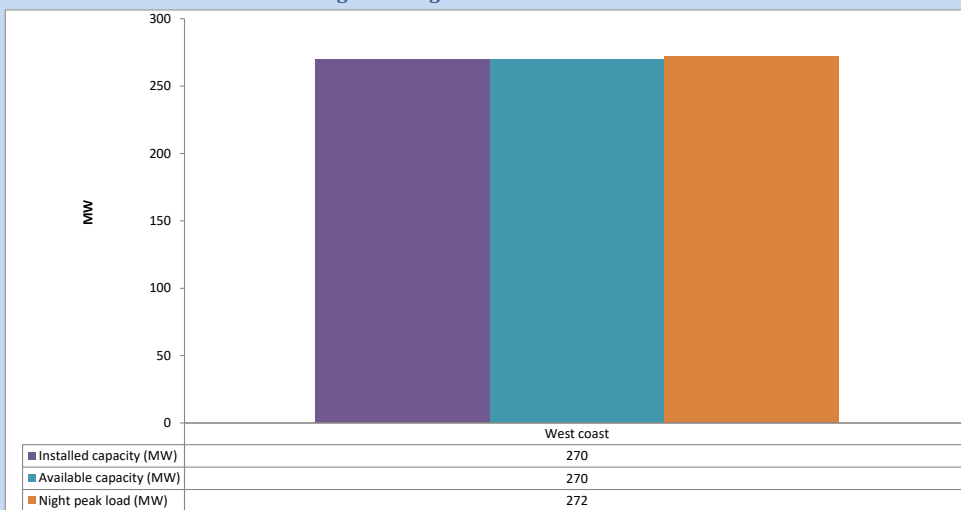
March 21, 2024



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

March 22, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

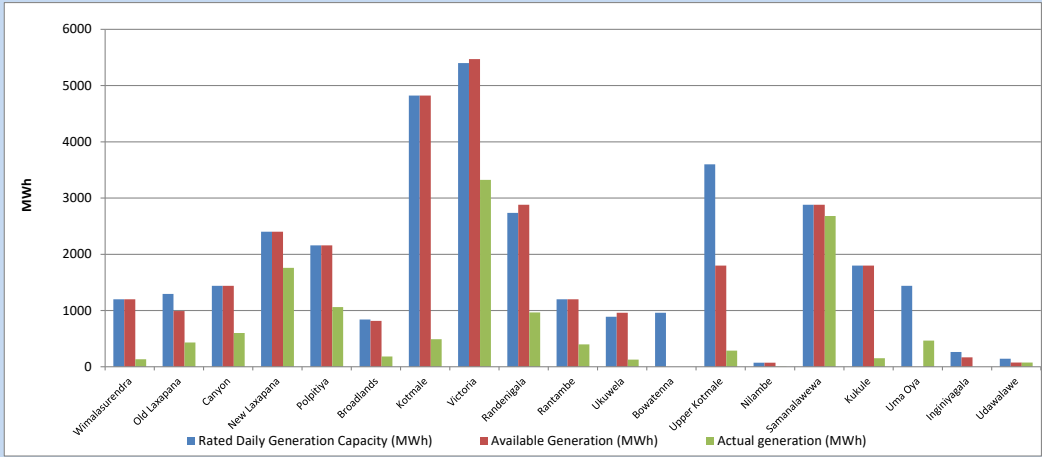


Plant availability is recorded at 6.00 am on

March 22, 2024

7. Major Hydro Plant Dispatch

March 21, 2024

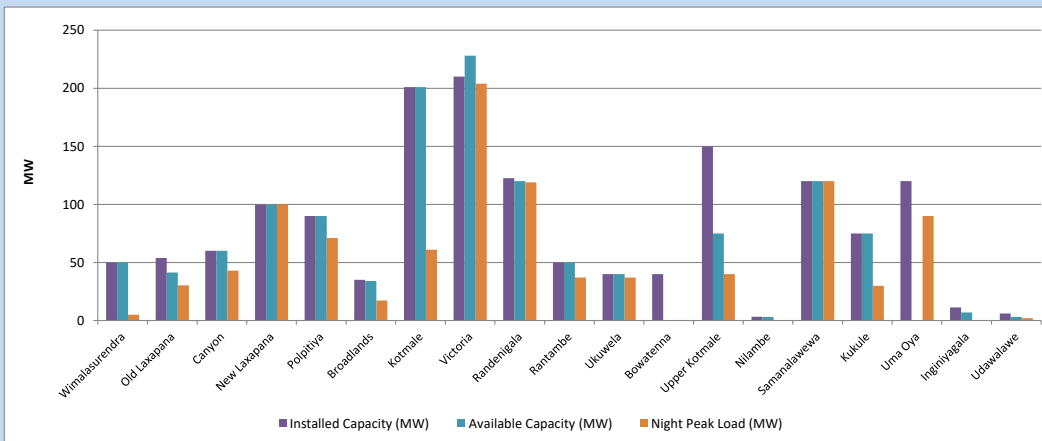


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

March 22, 2024

8. Major Hydro Plant Loading at Night Peak

March 21, 2024



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

March 22, 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	50	5	133
Old Laxapana	54	41	30	431
Canyon	60	60	43	600
New Laxapana	100	100	100	1,759
Polpitiya	90	90	71	1,060
Broadlands	35	34	17	183
Kotmale	201	201	61	490
Victoria	210	228	204	3,324
Randenigala	123	120	119	965
Rantambe	50	50	37	399
Ukuwela	40	40	37	126
Bowatenna	40	0	0	0
Upper Kotmale	150	75	40	286
Nilambe	3	3	0	6
Samanalawewa	120	120	120	2,681
Kukule	75	75	30	153
Uma Oya (Testing)	120	0	90	464
Inginiyagala	11	7	0	0
Udawalawe	6	3	2	74
Puttalam Coal I	270	270	269	6,487
Puttalam Coal II	270	270	270	6,492
Puttalam Coal III	270	270	272	6,539
KPS Small GTs	54	16	0	4
KPS GT 7	115	115	0	0
KCCP	165	150	144	3,341
Sapugaskanda A	70	48	64	1,365
Sapugaskanda B	72	45	45	1,078
Uthura Janani	22	24	23	510
Barge CEB	62	60	60	1,332
CEB-Hambantota	30	18	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	272	6,366
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	3,021	2,515	48,823

Note-

Plant availability is the availability recorded at 6 am on

March 22, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

March 21, 2024

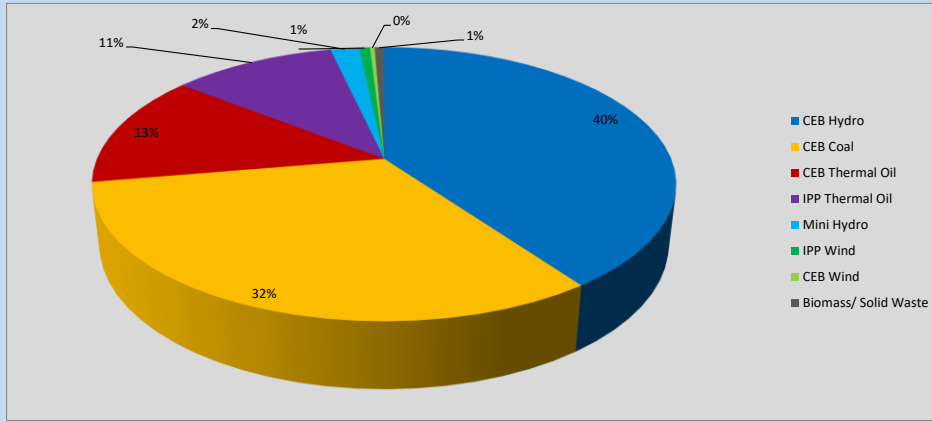


Table 06

CEB Hydro	1010	MW
CEB Coal	811	MW
CEB Thermal Oil	336	MW
IPP Thermal Oil	272	MW
Mini Hydro (Telemetered)	48	MW
IPP Wind	17.9	MW
CEB Wind	7.9	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

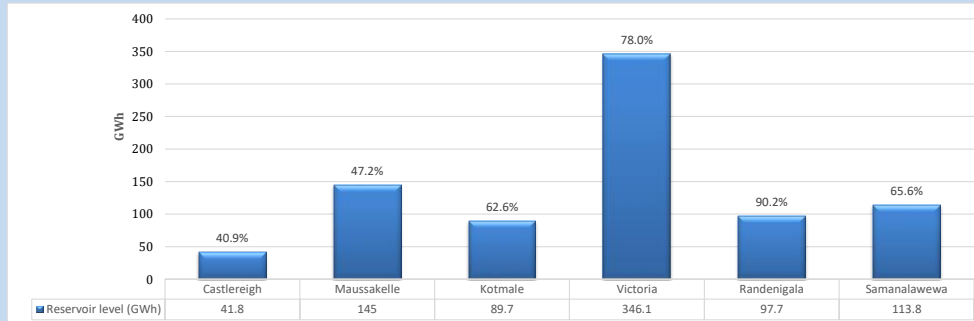
Table 07

Night Peak*	2,519	MW
Day Peak Maximum Demand	2,393	MW
Day Peak Minimum Demand	1,826	MW
Off Peak Minimum Demand	1,604	MW

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

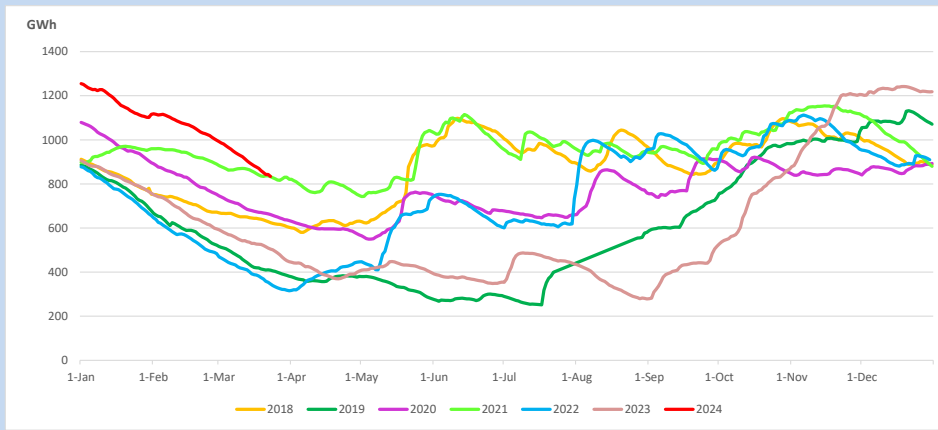
Reservoir Levels -

as at 06.00 Hr on March 22, 2024

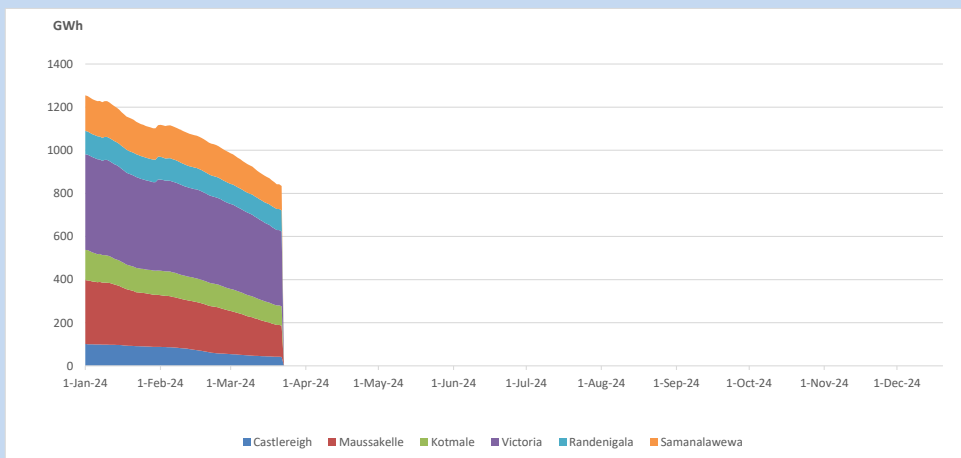


Total Reservoir Level 834.1 GWh
 % of Total capacity 65.3%

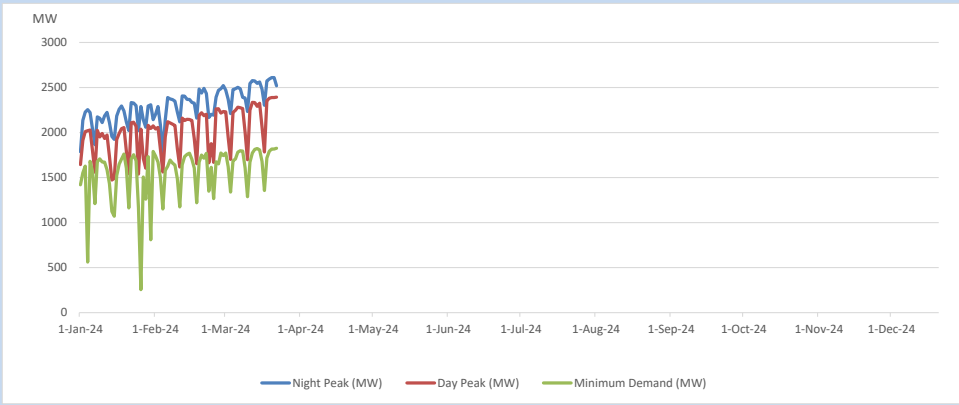
11. Comparison of Total Reservoir Storage Levels with Past Years



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



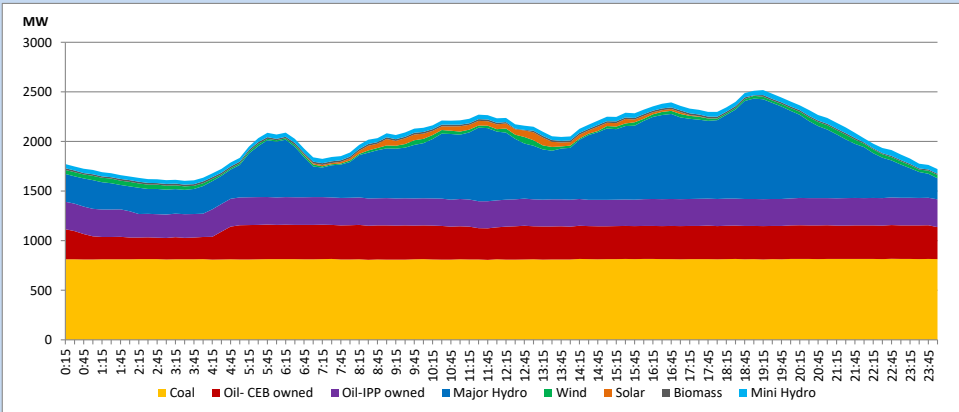
13. Variation of Demand during the current year



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

14. Daily Load Curve

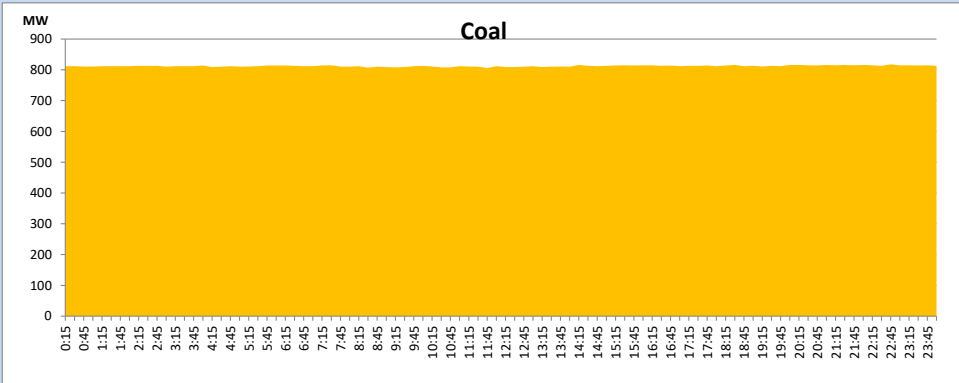
March 21, 2024



Solar and wind data is based on Telemetered Power Stations only

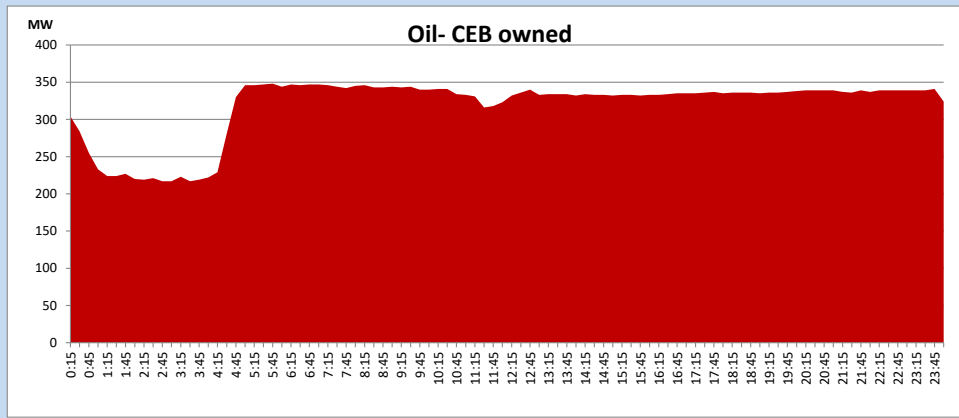
Coal Generation during

March 21, 2024



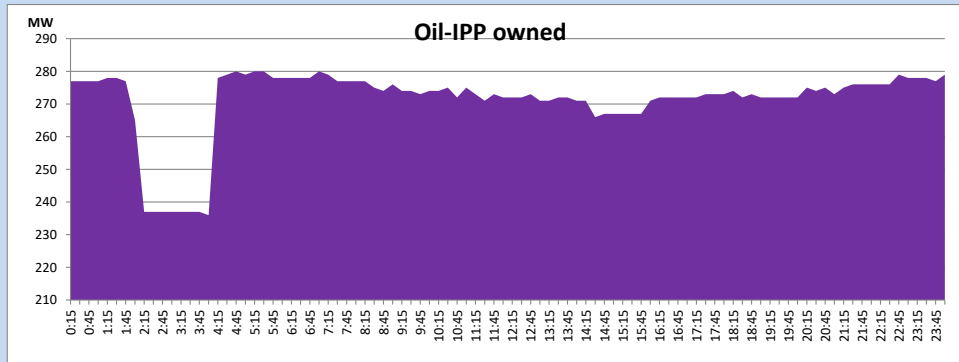
CEB Oil Plant Generation during

March 21, 2024



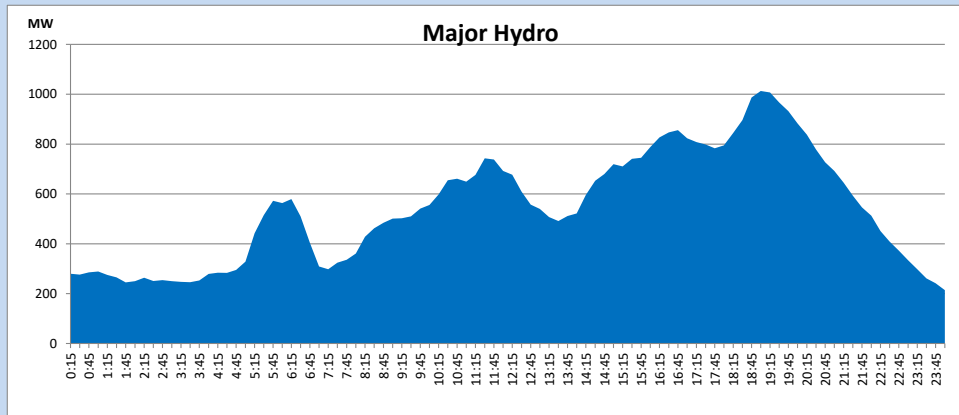
IPP Oil Plant Generation during

March 21, 2024



Major Hydro Generation during

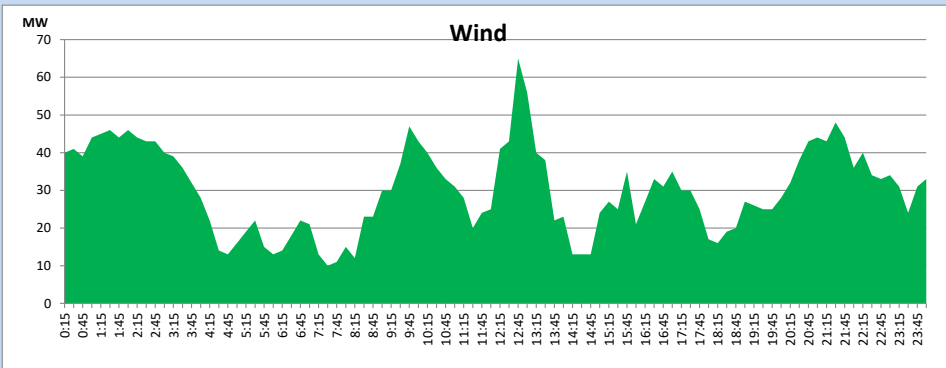
March 21, 2024



Wind Generation during

March 21, 2024

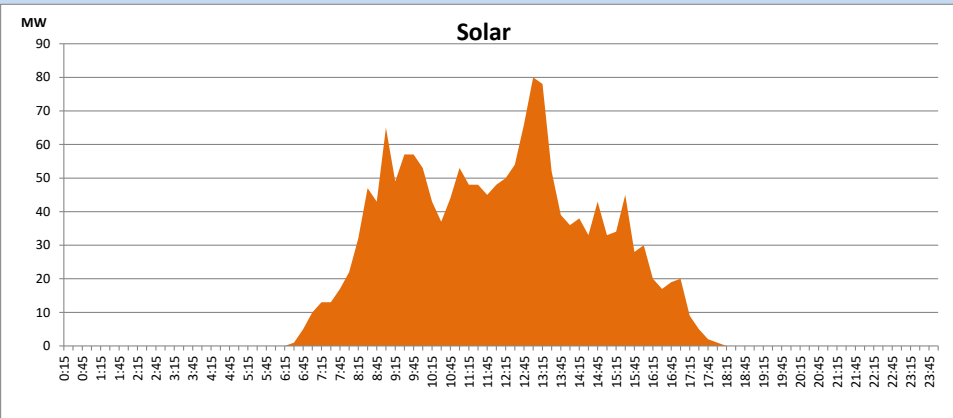
Based on Telemetered Power Stations only



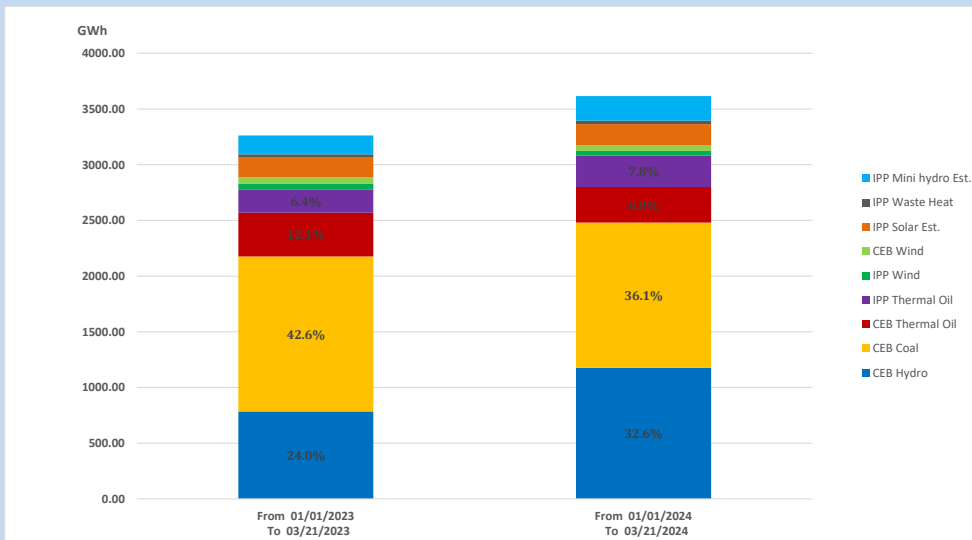
Solar Generation during

March 21, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 03/21/2023
 From 01/01/2024 To 03/21/2024

3263 GWh
 3615 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

Major Incidents reported during the day

March 21, 2024

- 1) The recorded maximum net generation occurred today as 51.01GWh.