

Generation and Reservoirs Statistics

March 18, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

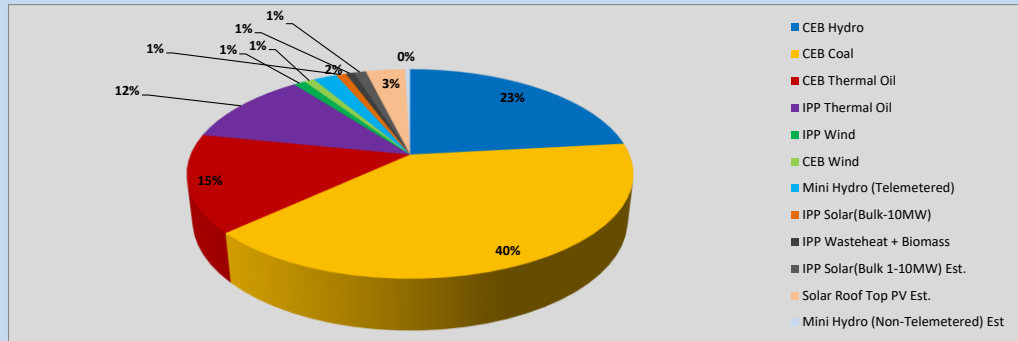


Table 01

	Generation (MWh)
CEB Hydro	11,376
CEB Coal	19,525
CEB Thermal Oil	7,372
IPP Thermal Oil	5,598
IPP Wind	493
CEB Wind	431
Mini Hydro (Telemetered)	985
IPP Solar (Bulk)	429
IPP Waste heat + Biomass	347
Total Generation (Excluding estimated figures)	46,556
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	210
* Estimated IPP Solar PV (Bulk 1-10MW)	514
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	48,950

* 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	190	22.53%
CEB Coal	346	41.05%
CEB Thermal Oil	129	15.28%
IPP Thermal	89	10.54%
SPP Wind	6	0.70%
CEB Wind	6	0.76%
Mini Hydro *	25	2.93%
IPP Solar *	45	5.40%
IPP Waste heat + BMP	7	0.81%
Total	842	

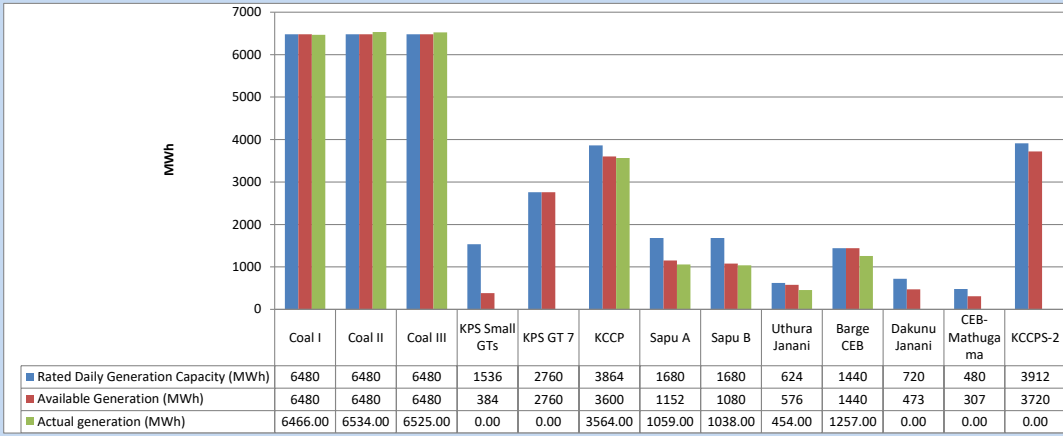
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,128	33.05%
CEB Coal	1,226	35.91%
CEB Thermal Oil	287	8.41%
IPP Thermal	257	7.54%
SPP Wind	42	1.22%
CEB Wind	51	1.48%
Mini Hydro *	216	6.32%
IPP Solar *	178	5.21%
IPP Waste heat	29	0.85%
Total	3,413	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

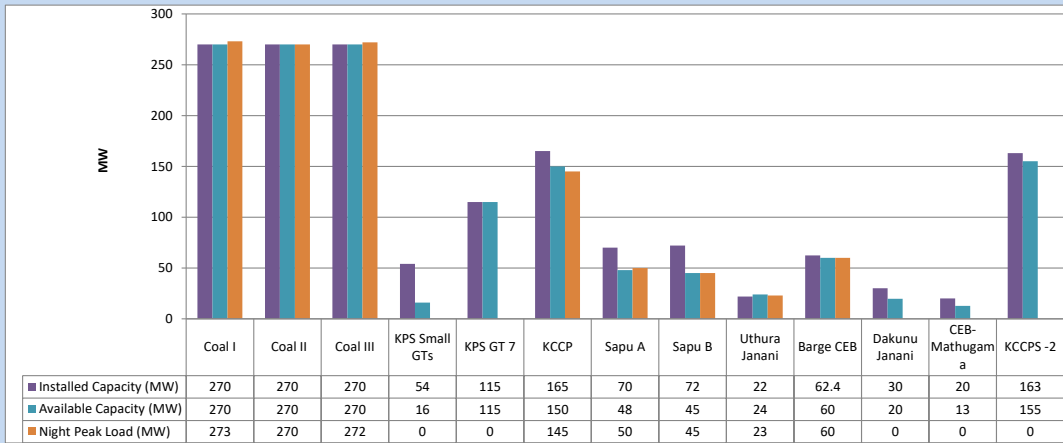
March 18, 2024



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

March 19, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

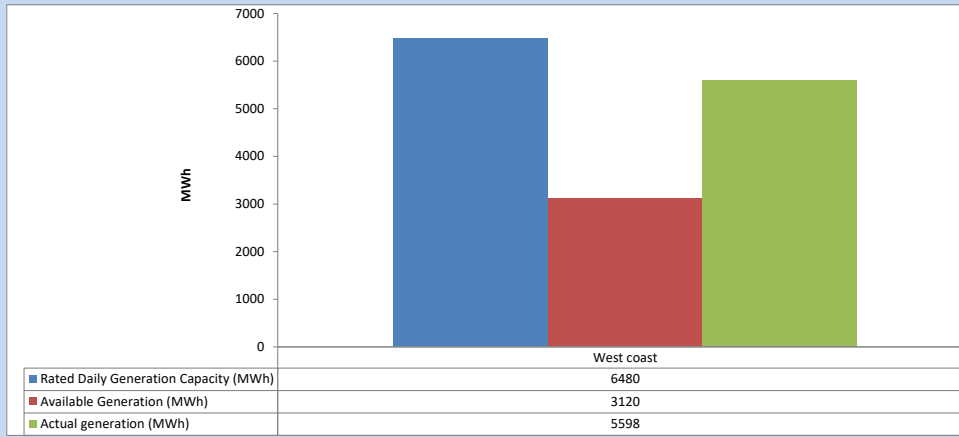


Plant availability is recorded at 6.00 am on

March 19, 2024

5. IPP owned Thermal Plant Dispatch

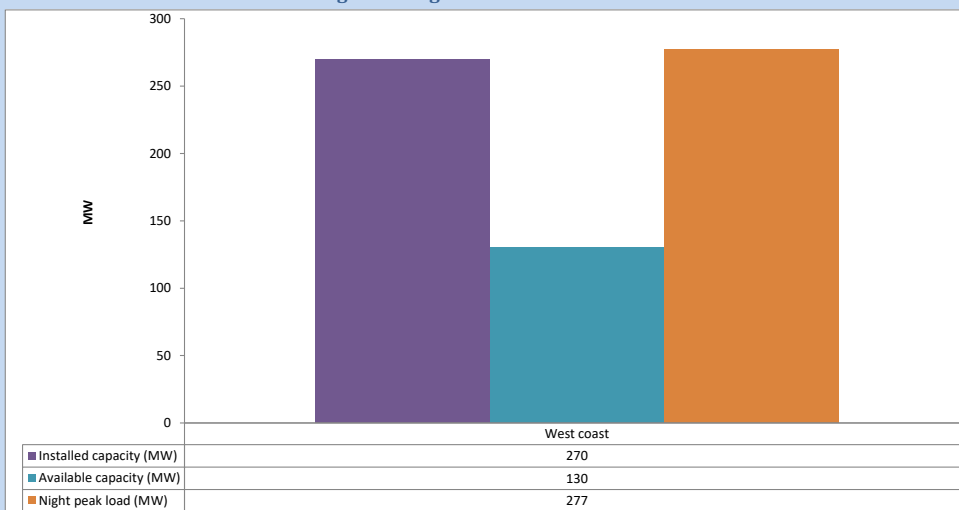
March 18, 2024



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

March 19, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

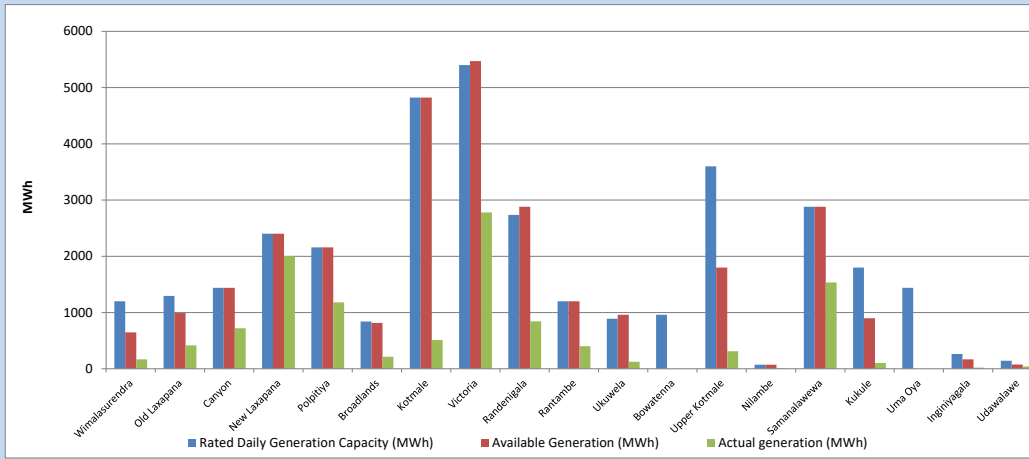


Plant availability is recorded at 6.00 am on

March 19, 2024

7. Major Hydro Plant Dispatch

March 18, 2024

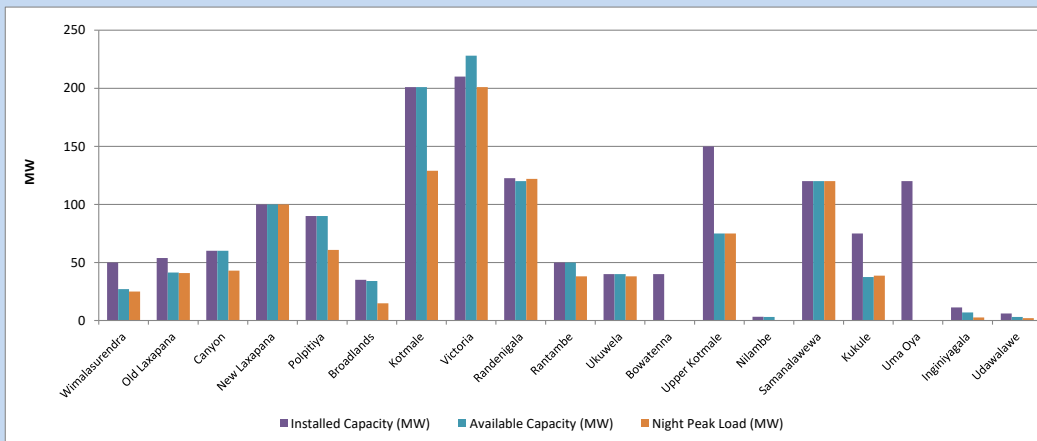


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

March 19, 2024

8. Major Hydro Plant Loading at Night Peak

March 18, 2024



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

March 19, 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	27	25	166
Old Laxapana	54	41	41	417
Canyon	60	60	43	720
New Laxapana	100	100	100	2,003
Polpitiya	90	90	61	1,180
Broadlands	35	34	15	214
Kotmale	201	201	129	510
Victoria	210	228	201	2,780
Randenigala	123	120	122	842
Rantambe	50	50	38	402
Ukuwela	40	40	38	124
Bowatenna	40	0	0	0
Upper Kotmale	150	75	75	311
Nilambe	3	3	0	7
Samanalawewa	120	120	120	1,536
Kukule	75	38	39	102
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	20
Udawalawe	6	3	2	42
Puttalam Coal I	270	270	273	6,466
Puttalam Coal II	270	270	270	6,534
Puttalam Coal III	270	270	272	6,525
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	145	3,564
Sapugaskanda A	70	48	50	1,059
Sapugaskanda B	72	45	45	1,038
Uthura Janani	22	24	23	454
Barge CEB	62	60	60	1,257
CEB-Hambantota	30	20	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	130	277	5,598
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,822	2,559	46,556

Note-

Plant availability is the availability recorded at 6 am on

March 19, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

March 18, 2024

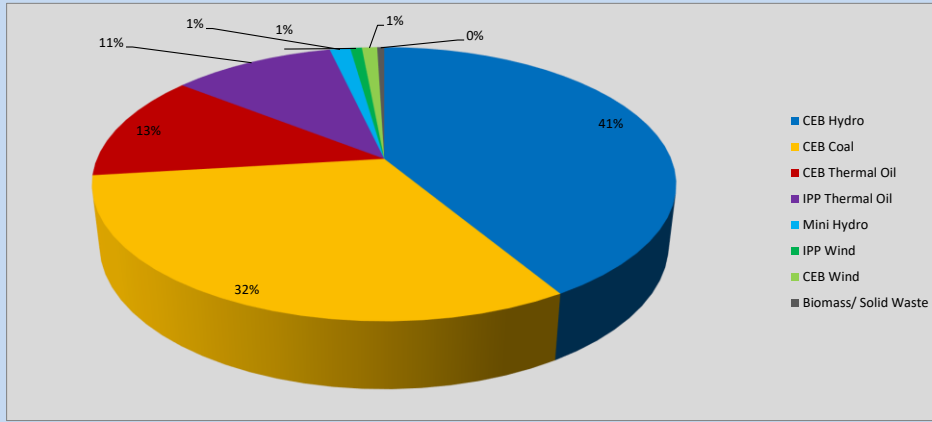


Table 06

CEB Hydro	1064	MW
CEB Coal	815	MW
CEB Thermal Oil	323	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	35	MW
IPP Wind	19.7	MW
CEB Wind	26	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

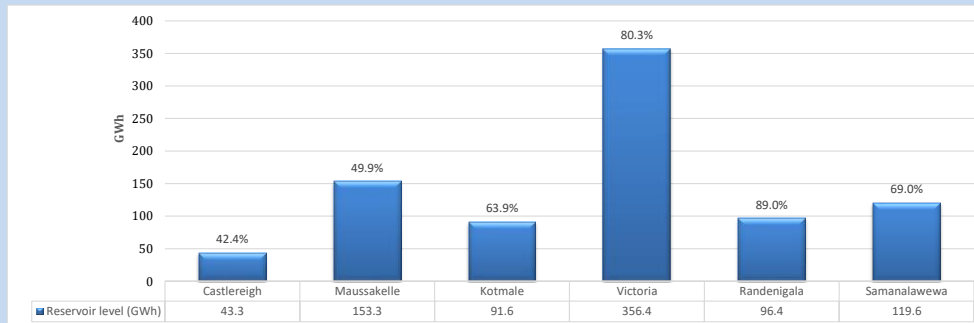
Table 07

Night Peak*	2,572	MW
Day Peak Maximum Demand	2,353	MW
Day Peak Minimum Demand	1,717	MW
Off Peak Minimum Demand	1,441	MW

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

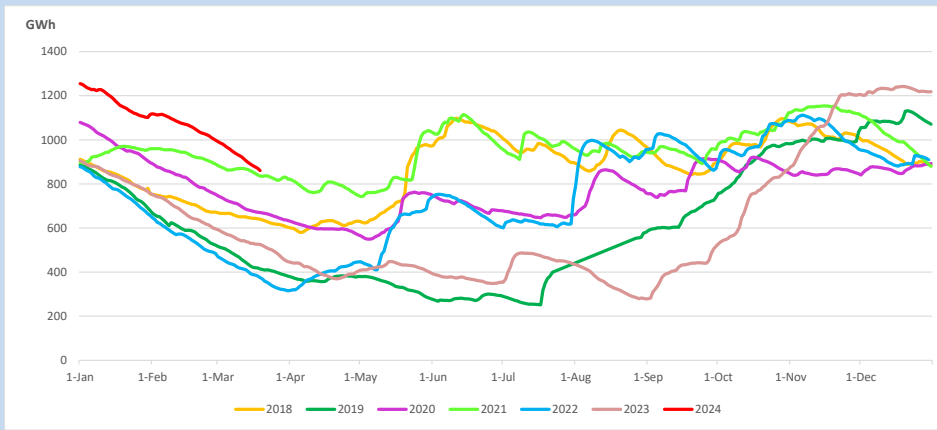
Reservoir Levels -

as at 06.00 Hr on March 19, 2024

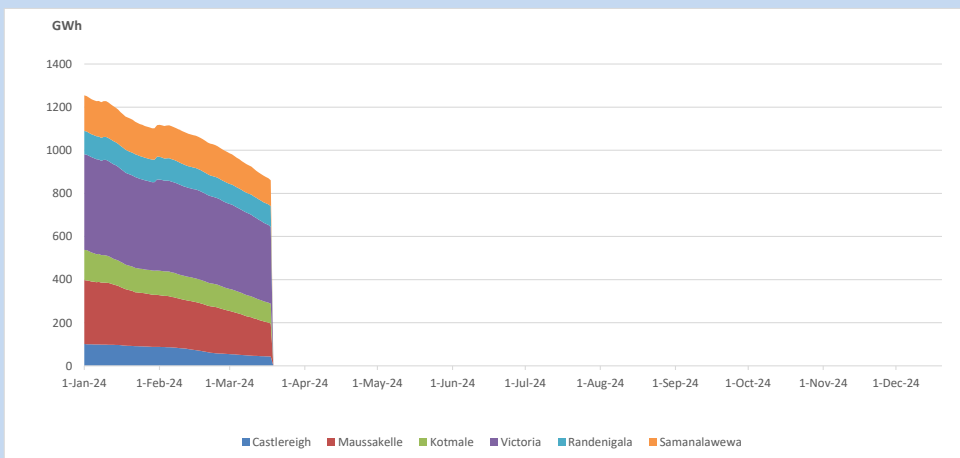


Total Reservoir Level 860.6 GWh
% of Total capacity 67.3%

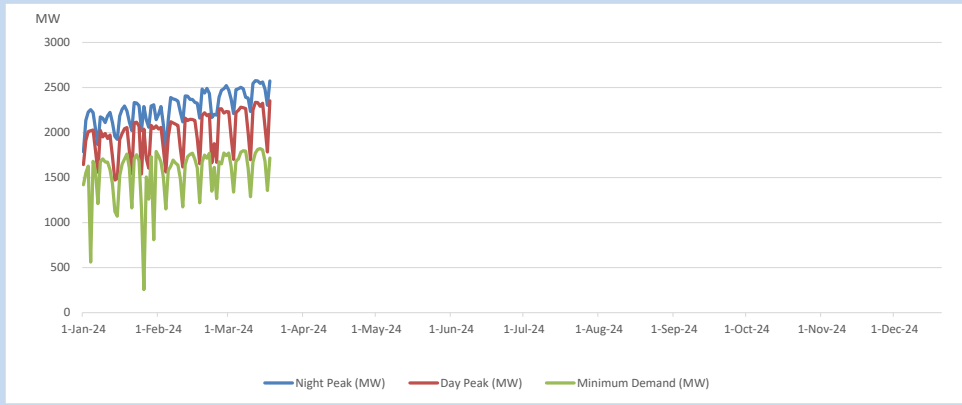
11. Comparison of Total Reservoir Storage Levels with Past Years



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



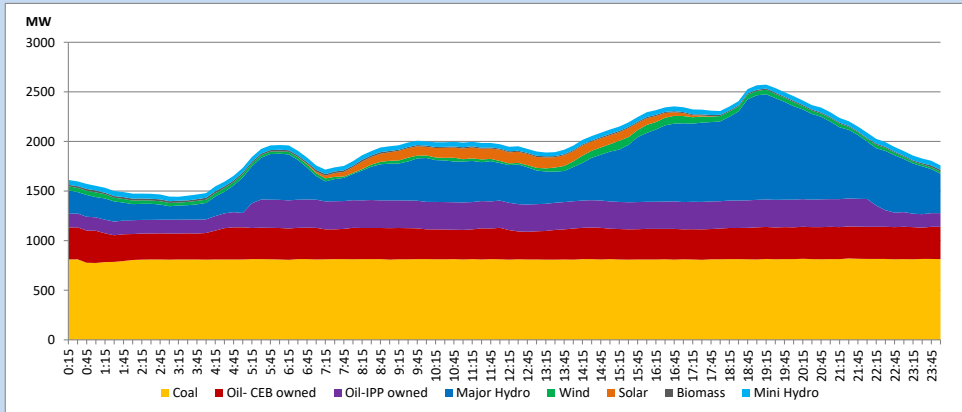
13. Variation of Demand during the current year



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

14. Daily Load Curve

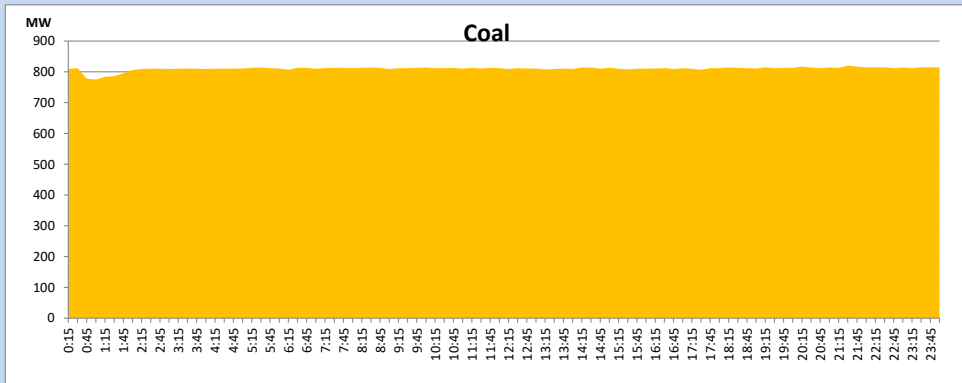
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Solar and wind data is based on Telemetered Power Stations only

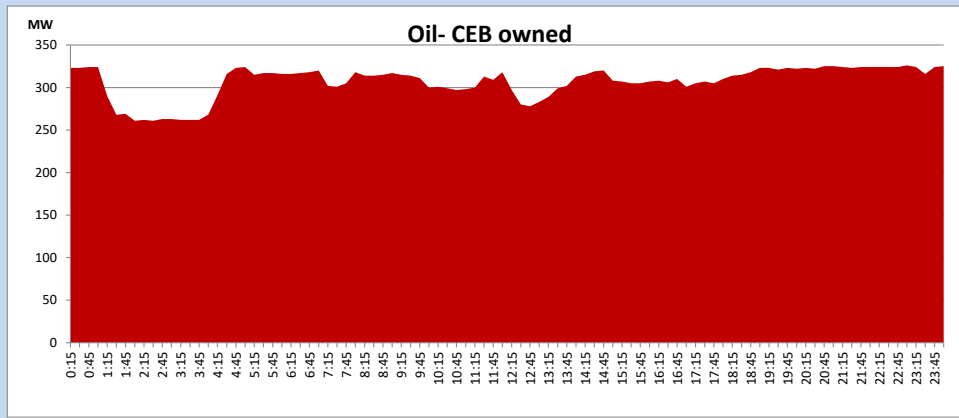
Coal Generation during

March 18, 2024



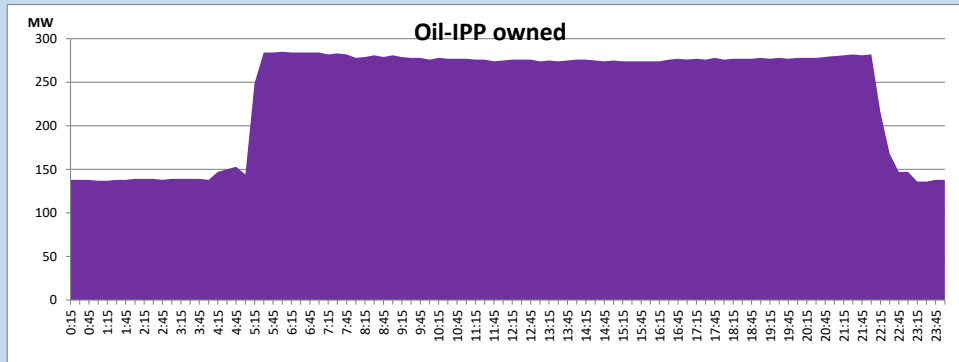
CEB Oil Plant Generation during

March 18, 2024



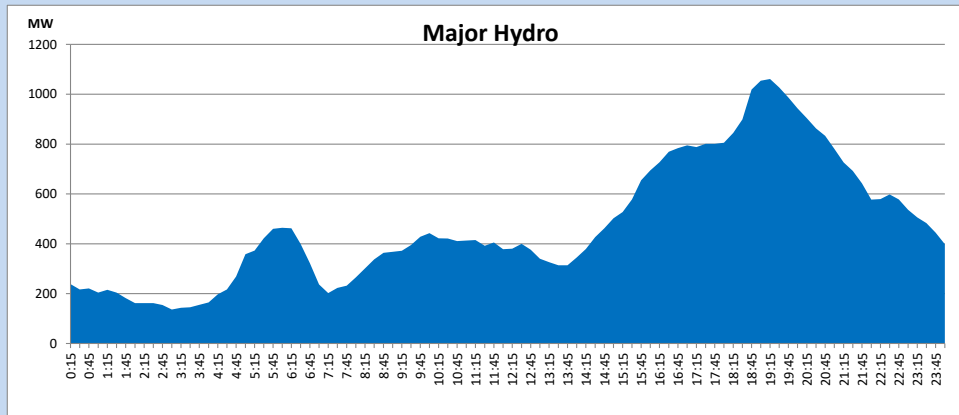
IPP Oil Plant Generation during

March 18, 2024



Major Hydro Generation during

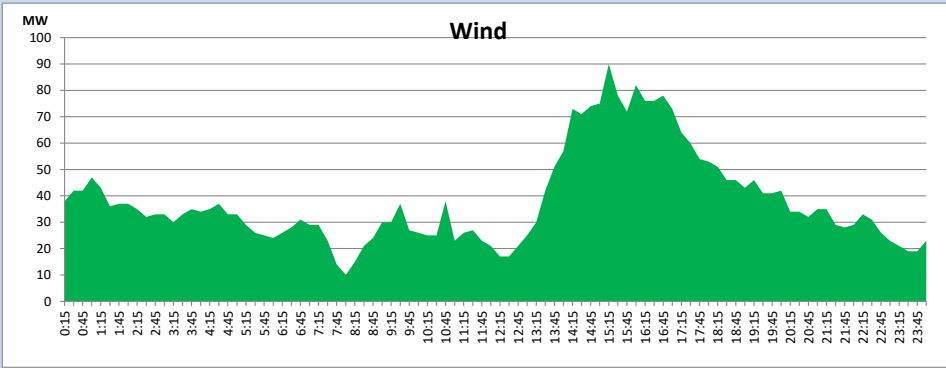
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Wind Generation during

March 18, 2024

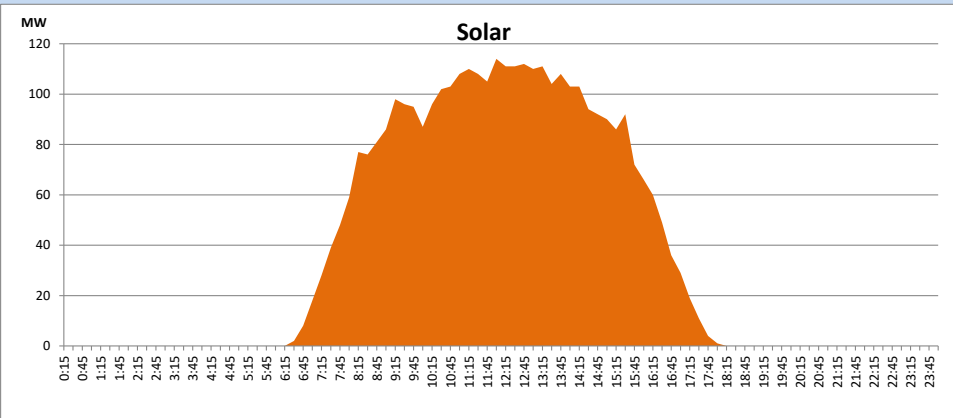
Based on Telemetered Power Stations only



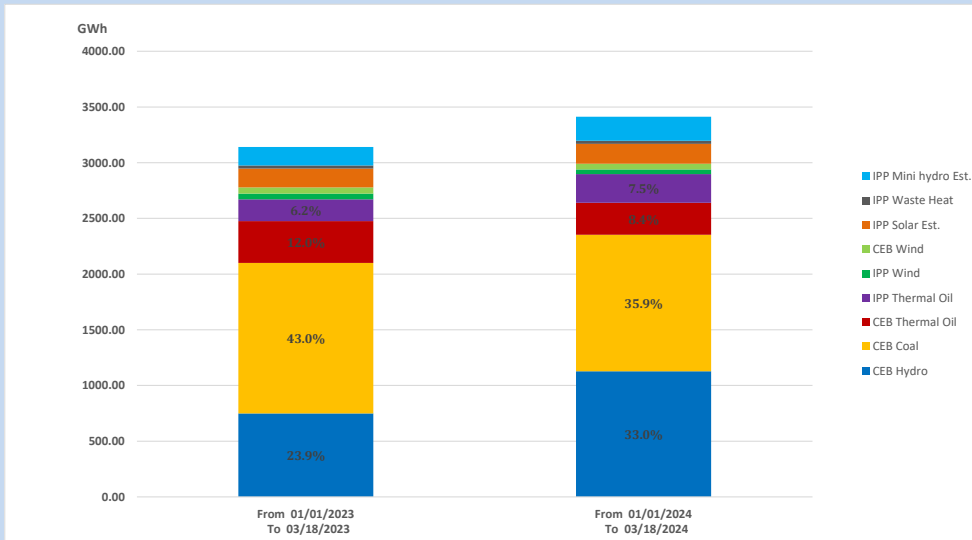
Solar Generation during

March 18, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 03/18/2023
 From 01/01/2024 To 03/18/2024

3141 GWh
 3413 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 18, 2024

1) Nil.