

Generation and Reservoirs Statistics

March 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

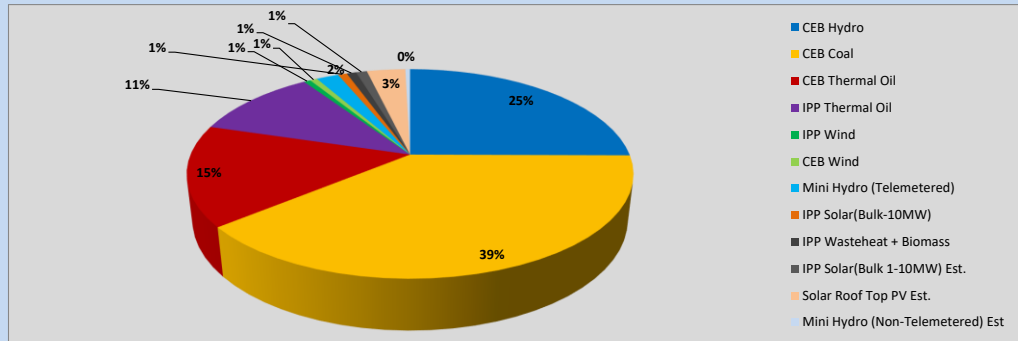


Table 01

	Generation (MWh)
CEB Hydro	12,594
CEB Coal	19,529
CEB Thermal Oil	7,808
IPP Thermal Oil	5,487
IPP Wind	291
CEB Wind	312
Mini Hydro (Telemetered)	967
IPP Solar (Bulk)	391
IPP Waste heat + Biomass	411
Total Generation (Excluding estimated figures)	47,790
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	206
* Estimated IPP Solar PV (Bulk 1-10MW)	475
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	50,141

* 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	202	22.67%
CEB Coal	365	40.93%
CEB Thermal Oil	136	15.29%
IPP Thermal	94	10.57%
SPP Wind	6	0.69%
CEB Wind	7	0.75%
Mini Hydro *	26	2.90%
IPP Solar *	48	5.38%
IPP Waste heat + BMP	7	0.81%
Total	892	

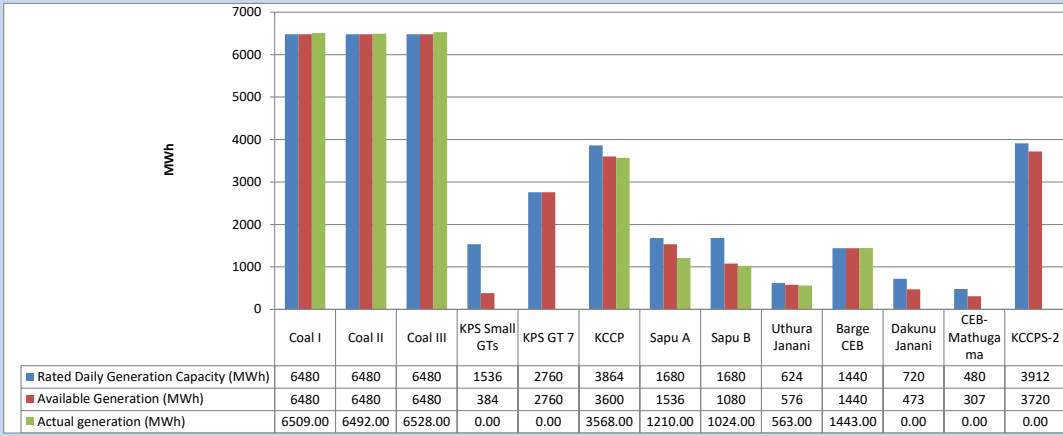
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,141	32.93%
CEB Coal	1,245	35.95%
CEB Thermal Oil	295	8.52%
IPP Thermal	263	7.59%
SPP Wind	42	1.22%
CEB Wind	51	1.47%
Mini Hydro *	217	6.26%
IPP Solar *	180	5.21%
IPP Waste heat	30	0.85%
Total	3,463	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

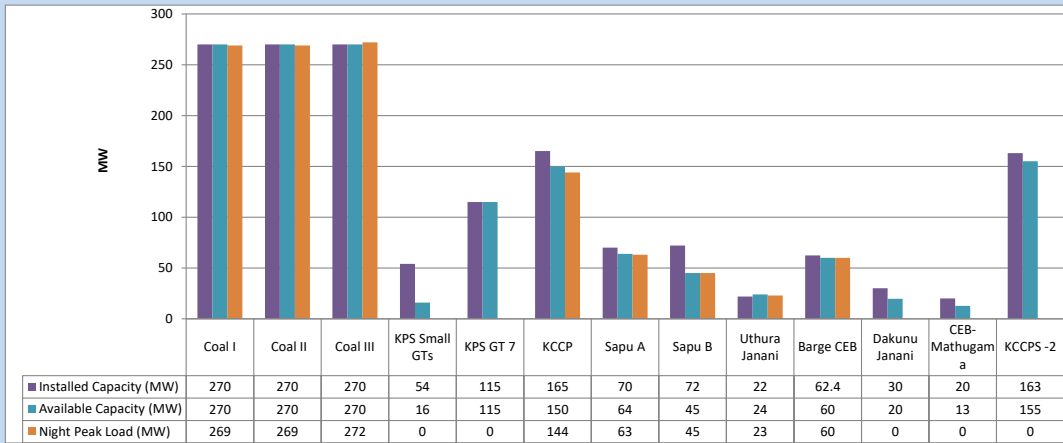
March 19, 2024



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

March 20, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

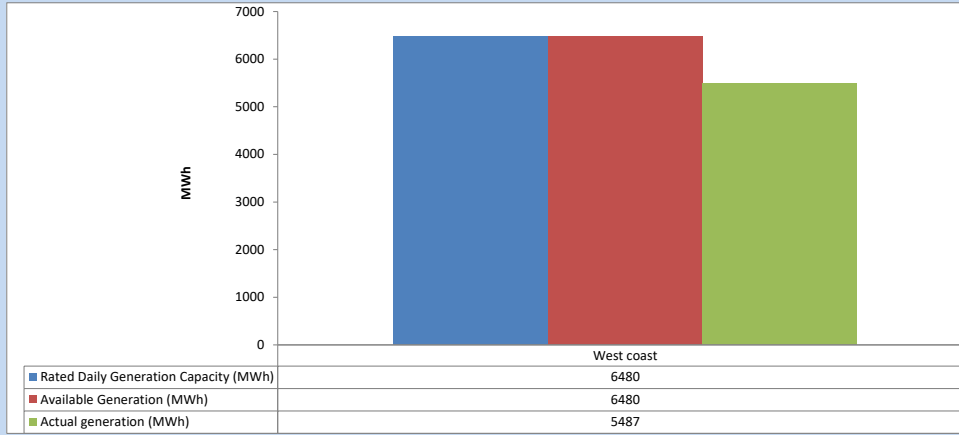


Plant availability is recorded at 6.00 am on

March 20, 2024

5. IPP owned Thermal Plant Dispatch

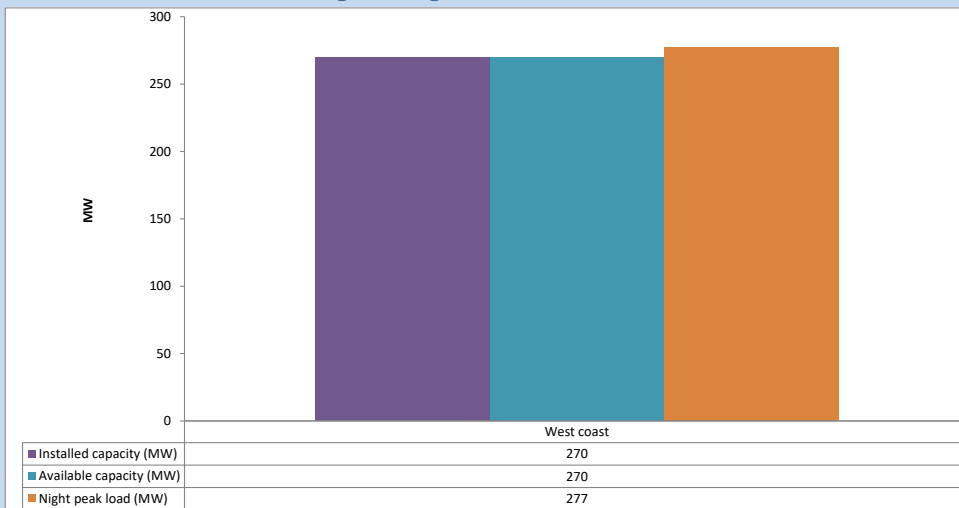
March 19, 2024



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

March 20, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

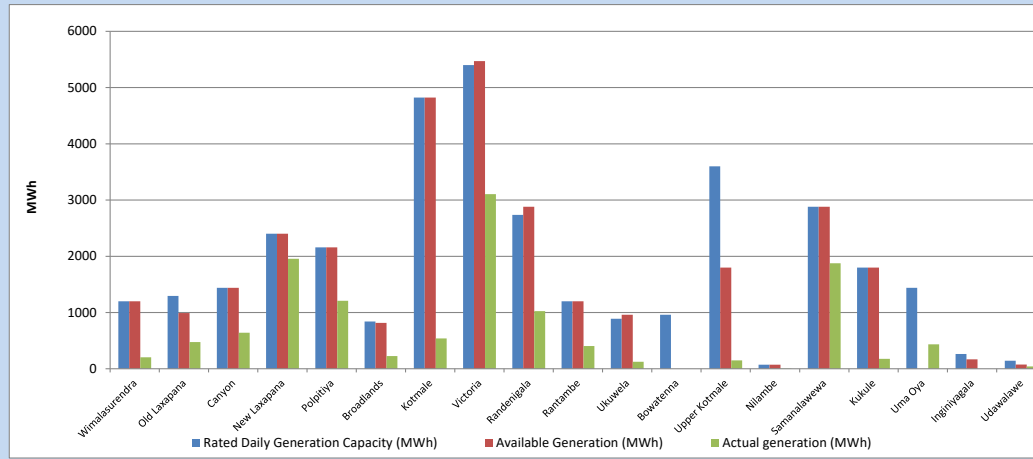


Plant availability is recorded at 6.00 am on

March 20, 2024

7. Major Hydro Plant Dispatch

March 19, 2024

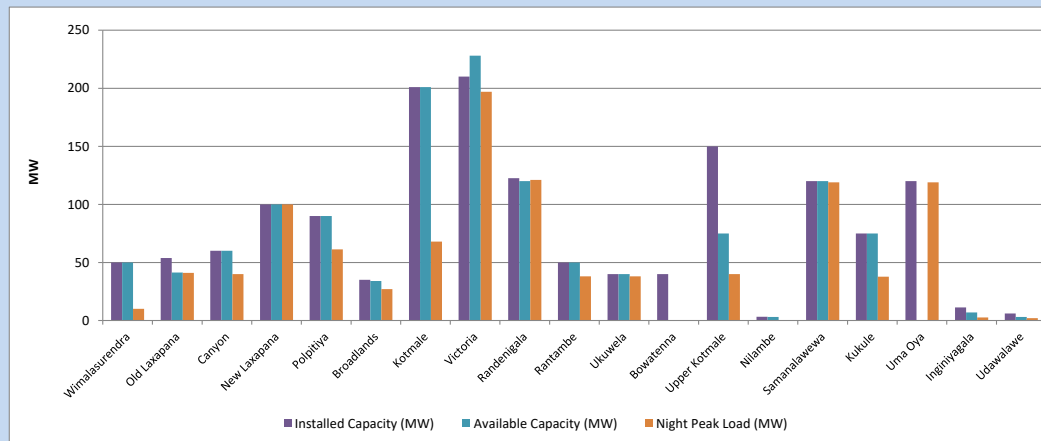


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

March 20, 2024

8. Major Hydro Plant Loading at Night Peak

March 19, 2024



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

March 20, 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	10	203
Old Laxapana	54	41	41	475
Canyon	60	60	40	642
New Laxapana	100	100	100	1,957
Polpitiya	90	90	61	1,210
Broadlands	35	34	27	227
Kotmale	201	201	68	540
Victoria	210	228	197	3,105
Randenigala	123	120	121	1,026
Rantambe	50	50	38	403
Ukuwela	40	40	38	123
Bowatenna	40	0	0	0
Upper Kotmale	150	75	40	149
Nilambe	3	3	0	5
Samanalawewa	120	120	119	1,875
Kukule	75	75	38	177
Uma Oya (Testing)	120	0	119	434
Inginiyagala	11	7	3	0
Udawalawe	6	3	2	42
Puttalam Coal I	270	270	269	6,509
Puttalam Coal II	270	270	269	6,492
Puttalam Coal III	270	270	272	6,528
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	144	3,568
Sapugaskanda A	70	64	63	1,210
Sapugaskanda B	72	45	45	1,024
Uthura Janani	22	24	23	563
Barge CEB	62	60	60	1,443
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	270	277	5,487
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	3,039	2,582	47,789

Note-

Plant availability is the availability recorded at 6 am on

March 20, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

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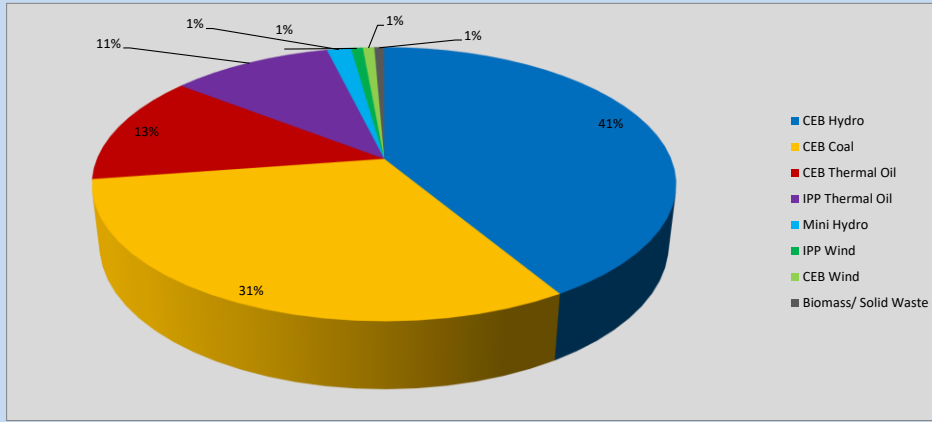


Table 06

CEB Hydro	1074	MW
CEB Coal	810	MW
CEB Thermal Oil	335	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	41	MW
IPP Wind	20.4	MW
CEB Wind	19.7	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

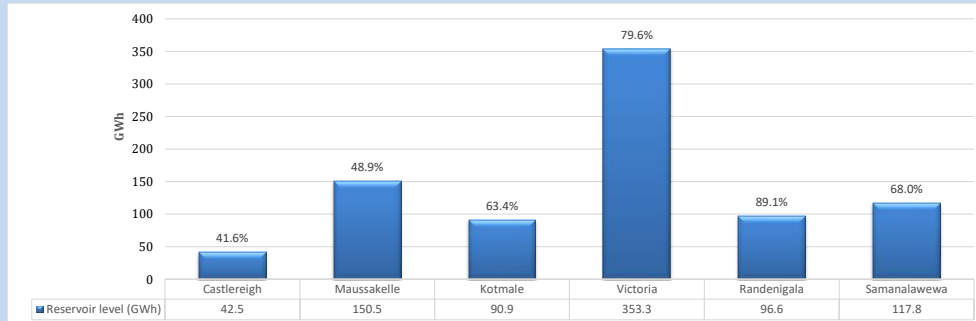
Table 07

Night Peak*	2,595	MW
Day Peak Maximum Demand	2,381	MW
Day Peak Minimum Demand	1,792	MW
Off Peak Minimum Demand	1,558	MW

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

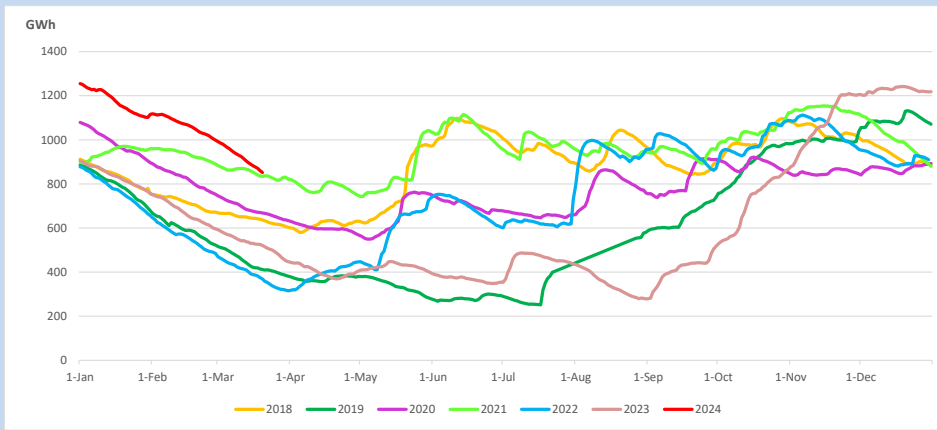
Reservoir Levels -

as at 06.00 Hr on March 20, 2024

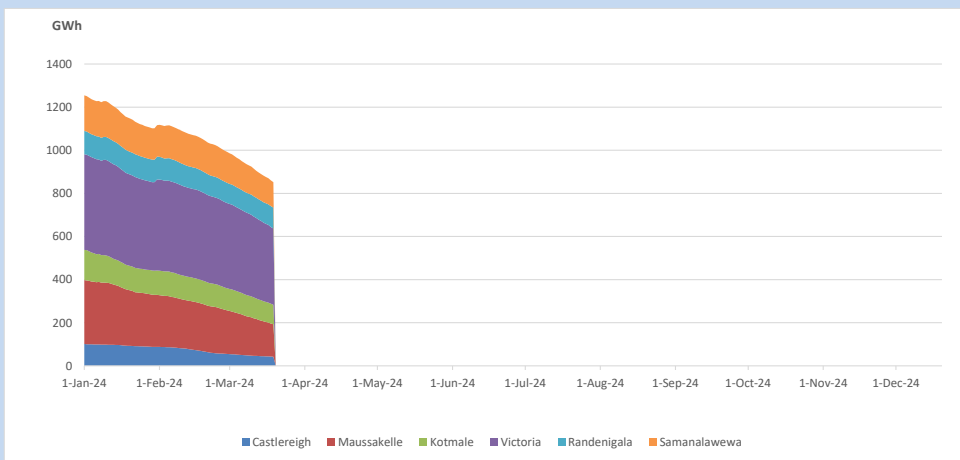


Total Reservoir Level 851.6 GWh
 % of Total capacity 66.6%

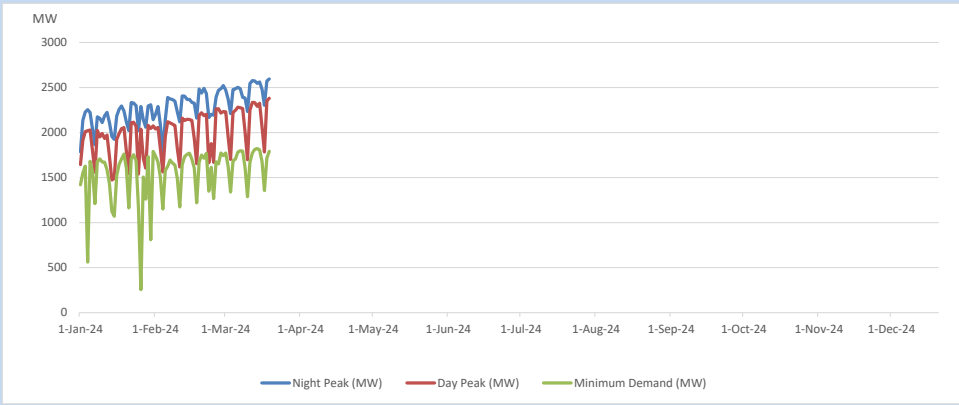
11. Comparison of Total Reservoir Storage Levels with Past Years



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



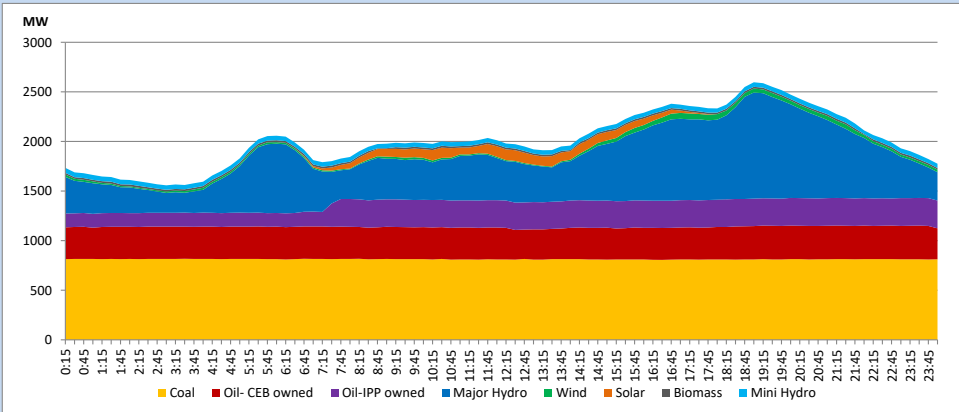
13. Variation of Demand during the current year



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

14. Daily Load Curve

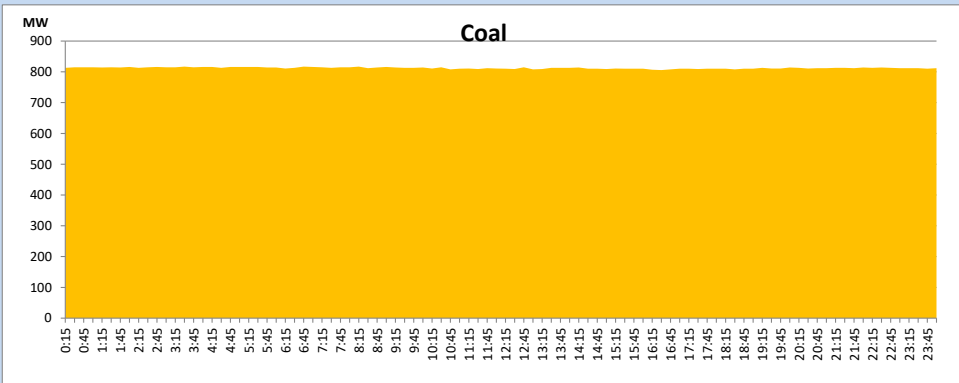
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Solar and wind data is based on Telemetered Power Stations only

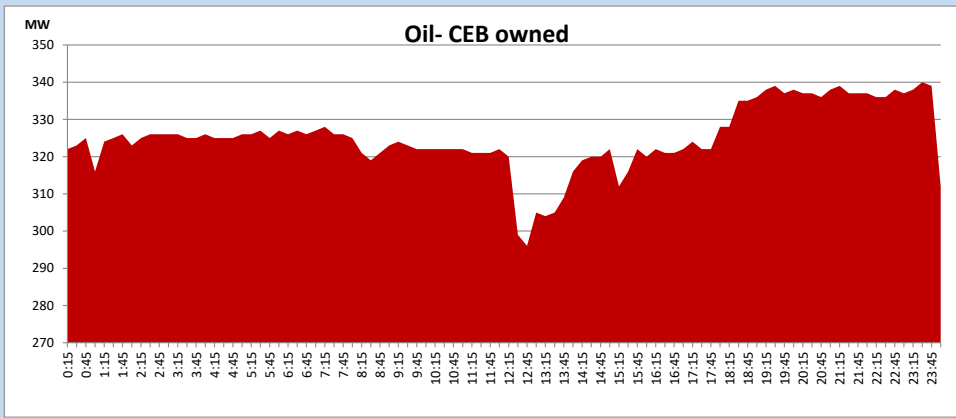
Coal Generation during

March 19, 2024



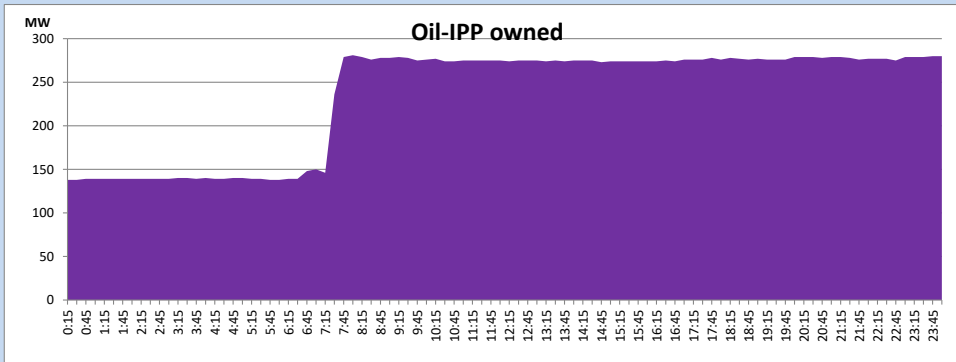
CEB Oil Plant Generation during

March 19, 2024



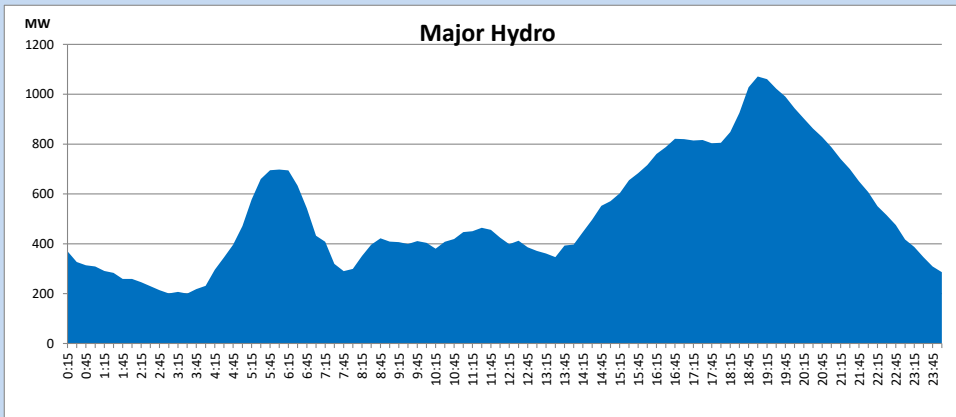
IPP Oil Plant Generation during

March 19, 2024



Major Hydro Generation during

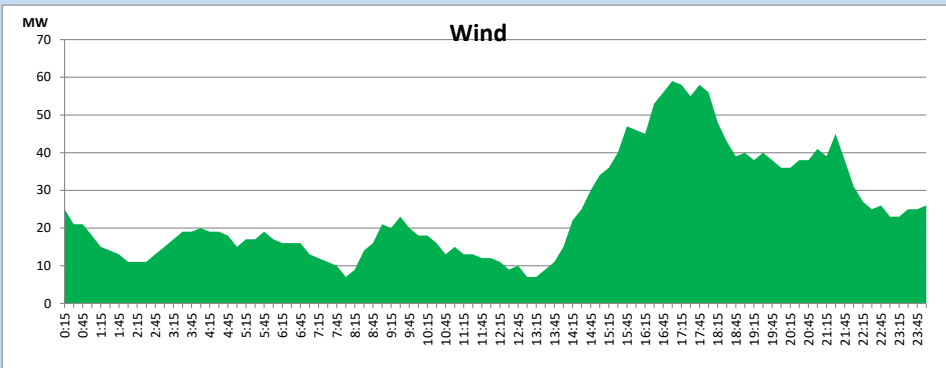
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Wind Generation during

March 19, 2024

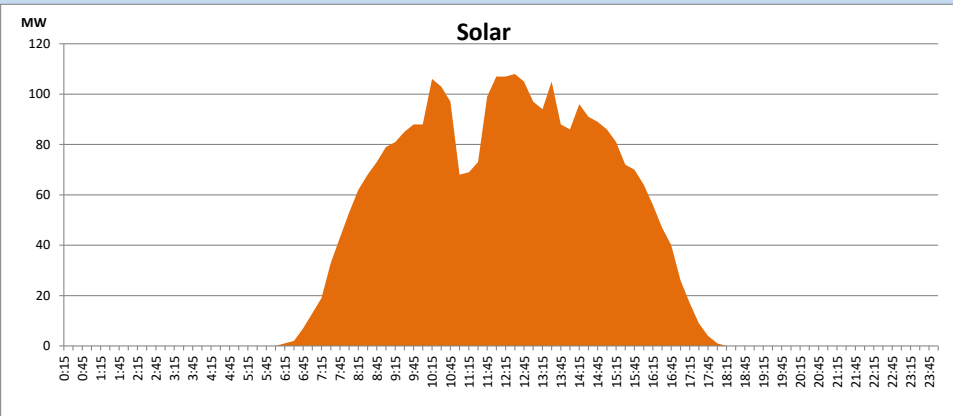
Based on Telemetered Power Stations only



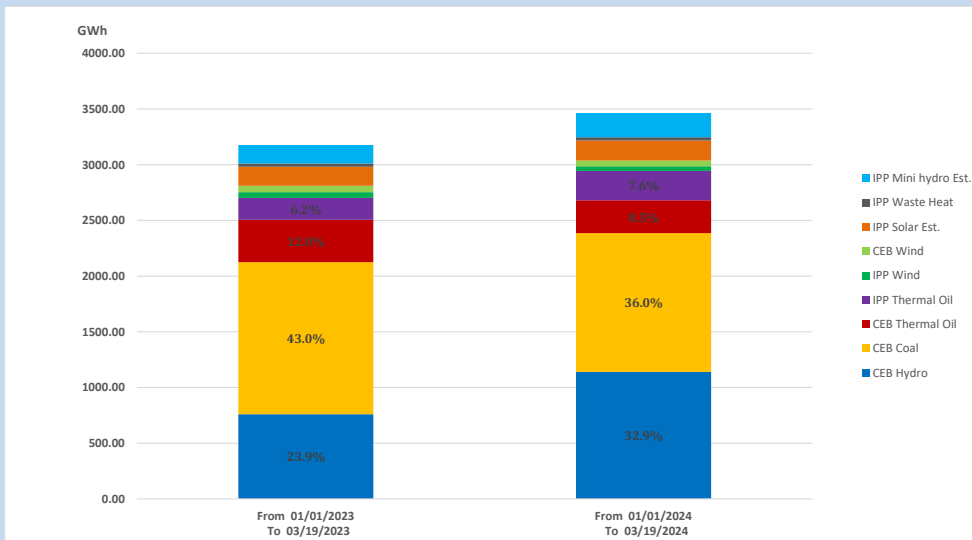
Solar Generation during

March 19, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 03/19/2023
 From 01/01/2024 To 03/19/2024

3177 GWh
 3463 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 19, 2024

1) Nil.