Generation and Reservoirs Statistics

March 16, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

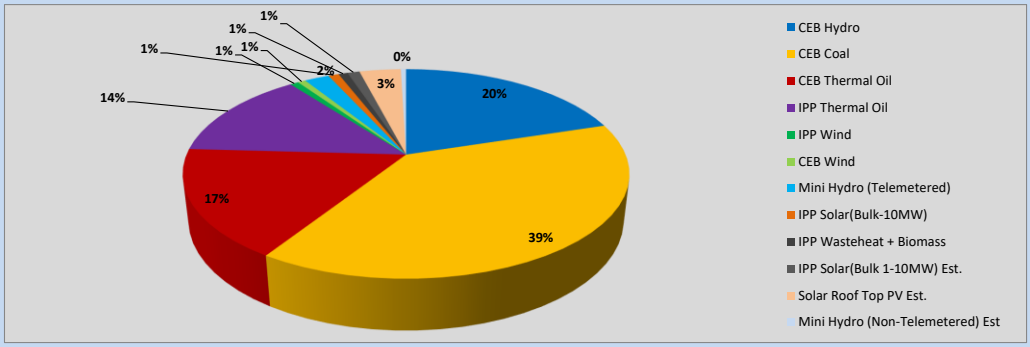


Table 01

	Generation (MWh)
CEB Hydro	9,379
CEB Coal	18,140
CEB Thermal Oil	7,844
IPP Thermal Oil	6,421
IPP Wind	339
CEB Wind	316
Mini Hydro (Telemetered)	996
IPP Solar (Bulk)	425
IPP Waste heat + Biomass	369
Total Generation (Excluding estimated figures)	**44,229**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	212
* Estimated IPP Solar PV (Bulk 1-10MW)	492
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	**46,603**

*** 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	170	22.68%
CEB Coal	306	40.84%
CEB Thermal Oil	114	15.21%
IPP Thermal	81	10.75%
SPP Wind	5	0.66%
CEB Wind	6	0.73%
Mini Hydro *	22	2.97%
IPP Solar *	40	5.35%
IPP Waste heat + BMP	6	0.81%
Total	**750**	

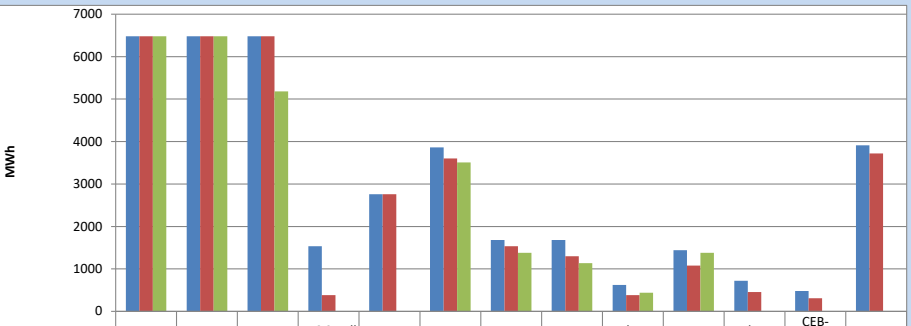
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,108	33.37%
CEB Coal	1,187	35.72%
CEB Thermal Oil	273	8.21%
IPP Thermal	249	7.51%
SPP Wind	41	1.23%
CEB Wind	50	1.49%
Mini Hydro *	213	6.42%
IPP Solar *	173	5.20%
IPP Waste heat	28	0.86%
Total	**3,322**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

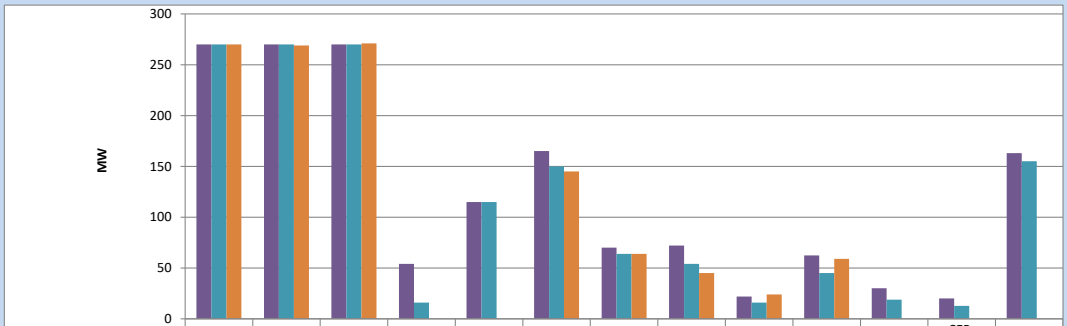
March 16, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1680	1680	624	1440	720	480	3912
Available Generation (MWh)	6480	6480	6480	384	2760	3600	1536	1296	384	1080	454	307	3720
Actual generation (MWh)	6479.00	6478.00	5183.00	0.00	0.00	3510.00	1381.00	1134.00	440.00	1379.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on March 17, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

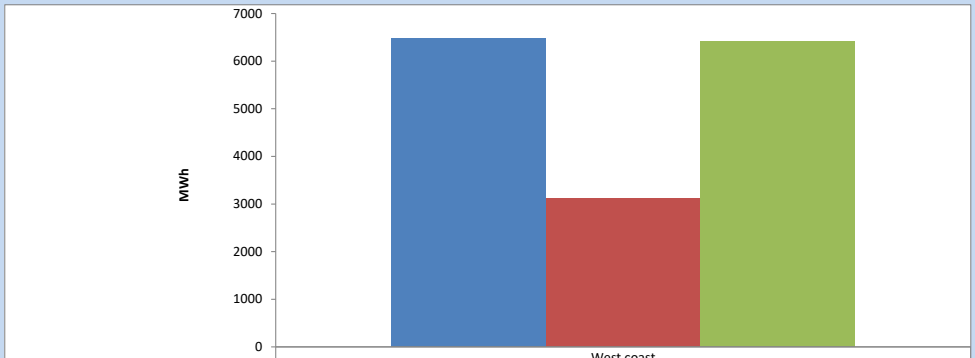


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	16	115	150	64	54	16	45	19	13	155
Night Peak Load (MW)	270	269	271	0	0	145	64	45	24	59	0	0	0

Plant availability is recorded at 6.00 am on March 17, 2024

5. IPP owned Thermal Plant Dispatch

March 16, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	3120
Actual generation (MWh)	6421

Available Generation is estimated based on plant availability at 6.00am on March 17, 2024

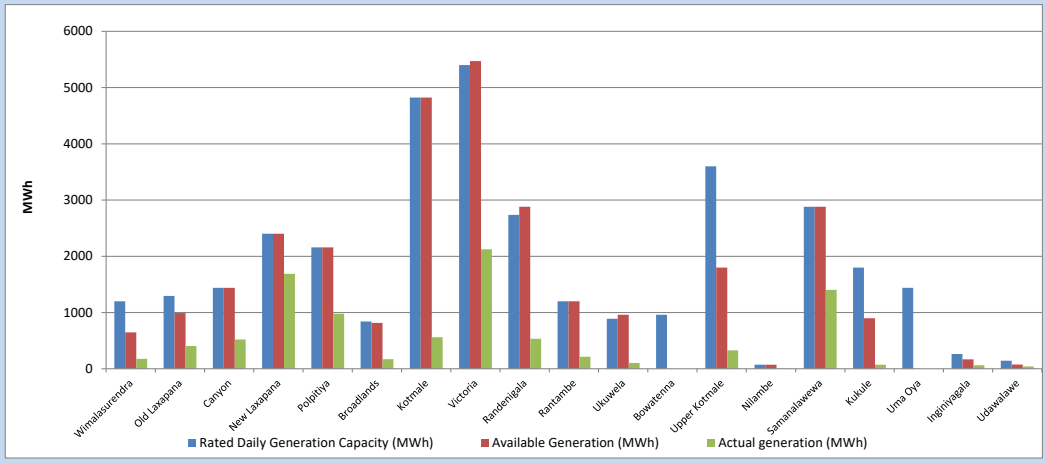
6. IPP owned Thermal Plant Loading at the Night Peak

	West coast
Installed capacity (MW)	270
Available capacity (MW)	130
Night peak load (MW)	270

Plant availability is recorded at 6.00 am on March 17, 2024

7. Major Hydro Plant Dispatch

March 16, 2024

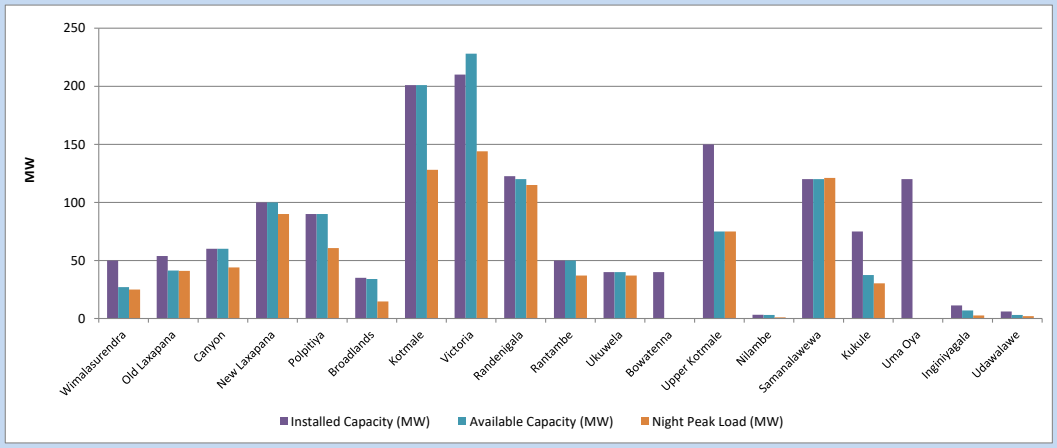


Available Generation is estimated based on plant availability at 6.00am on March 17, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

March 16, 2024



Plant availability is recorded at 6.00 am on March 17, 2024

Broadlands power plant is operating in the Commissioning Stage

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	177
Old Laxapana	54	41	41	405
Canyon	60	60	44	522
New Laxapana	100	100	90	1,688
Polpitiya	90	90	61	980
Broadlands	35	34	15	169
Kotmale	201	201	128	560
Victoria	210	228	144	2,124
Randenigala	123	120	115	532
Rantambe	50	50	37	212
Ukuwela	40	40	37	104
Bowatenna	40	0	0	0
Upper Kotmale	150	75	75	326
Nilambe	3	3	1	4
Samanalawewa	120	120	121	1,402
Kukule	75	38	30	71
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	63
Udawalawe	6	3	2	40
Puttalam Coal I	270	270	270	6,479
Puttalam Coal II	270	270	269	6,478
Puttalam Coal III	270	270	271	5,183
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	145	3,510
Sapugaskanda A	70	64	64	1,381
Sapugaskanda B	72	54	45	1,134
Uthura Janani	22	16	24	440
Barge CEB	62	45	59	1,379
CEB-Hambantota	30	19	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	270	6,421
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,824	2,466	44,229

Note-

Plant availability is the availability recorded at 6 am on March 17, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

March 16, 2024

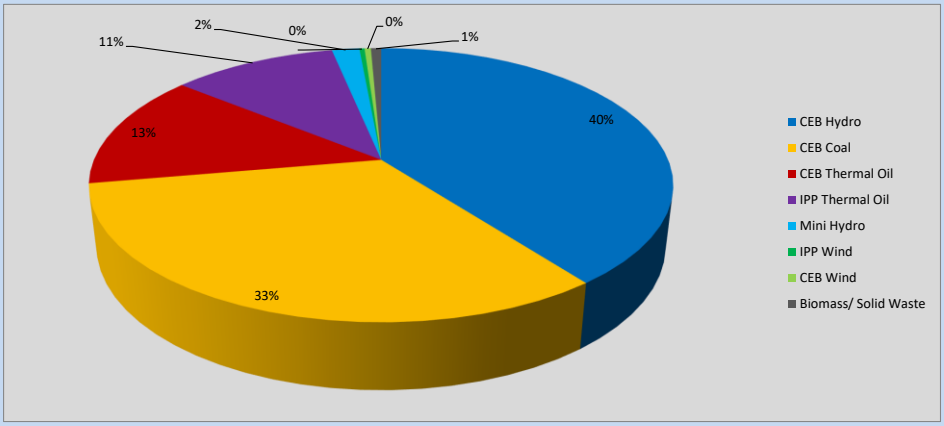


Table 06

CEB Hydro	982	MW
CEB Coal	810	MW
CEB Thermal Oil	337	MW
IPP Thermal Oil	270	MW
Mini Hydro (Telemetered)	45	MW
IPP Wind	8.4	MW
CEB Wind	10.4	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

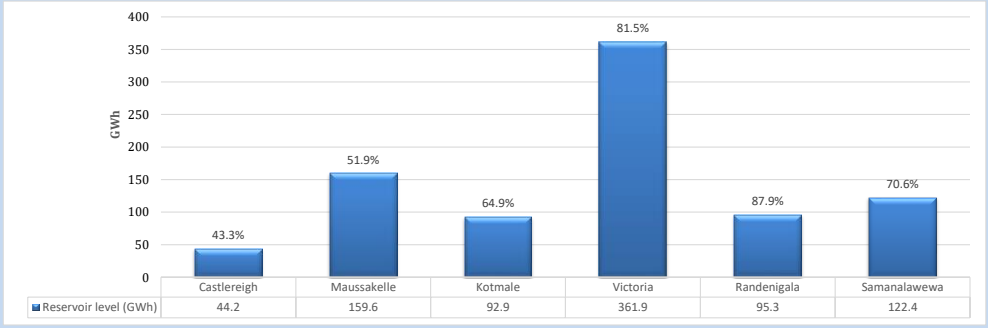
Table 07

Night Peak*	2,480	MW
Day Peak Maximum Demand	2,061	MW
Day Peak Minimum Demand	1,678	MW
Off Peak Minimum Demand	1,558	MW

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

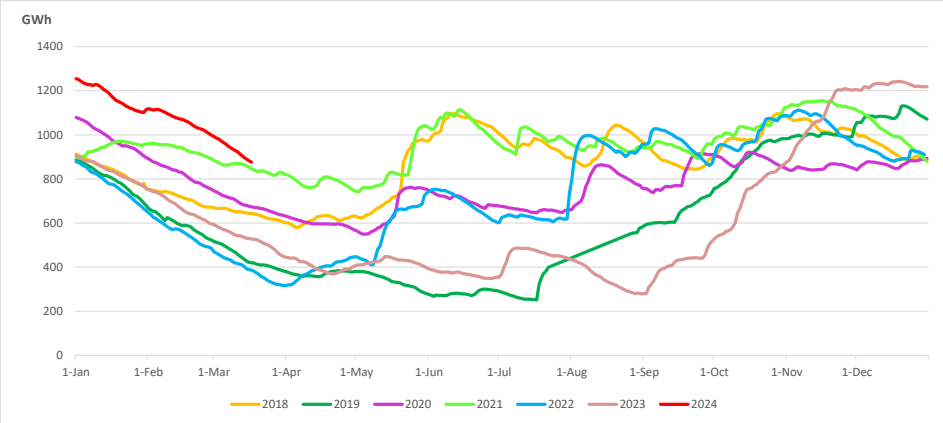
Reservoir Levels -

as at 06.00 Hr on March 17, 2024

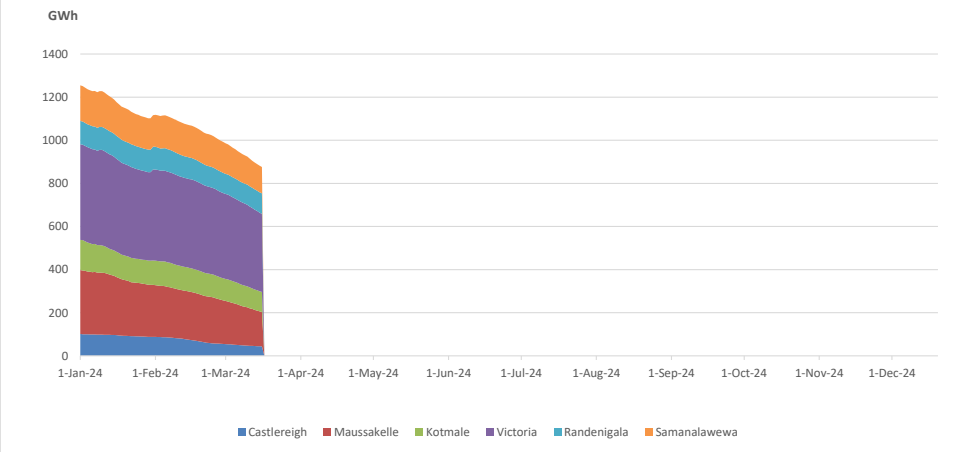


Total Reservoir Level 876.3 GWh
% of Total capacity 68.5%

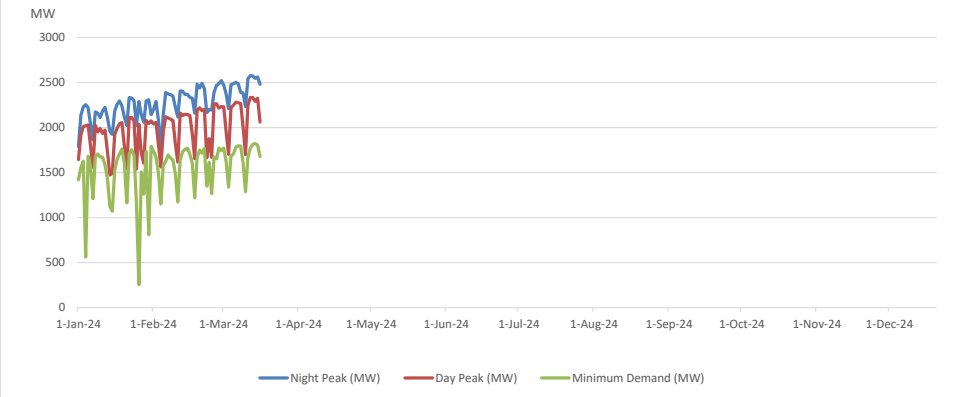
11. Comparison of Total Reservoir Storage Levels with Past Years



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

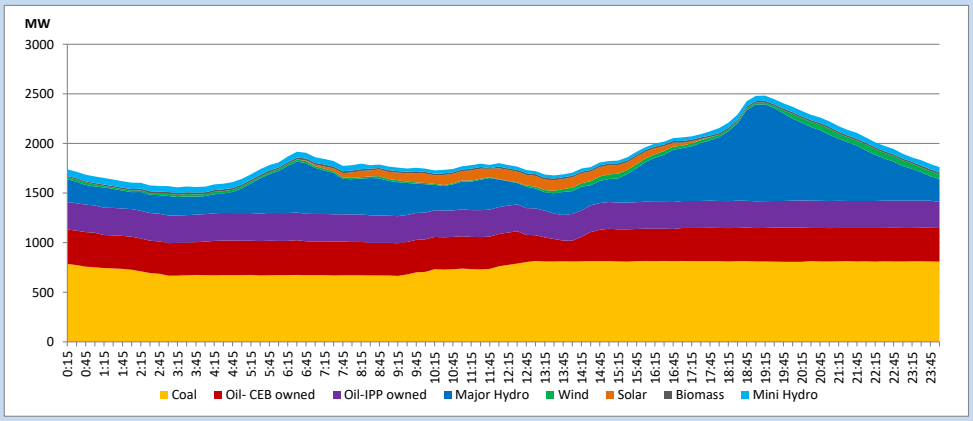


13. Variation of Demand during the current year



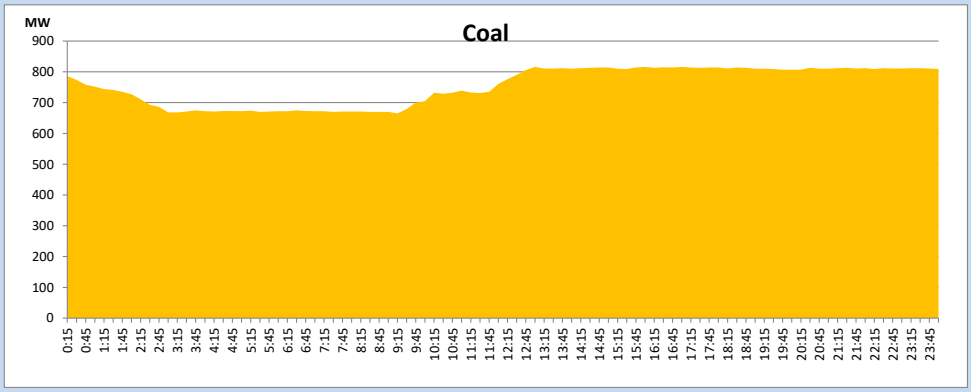
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve March 16, 2024

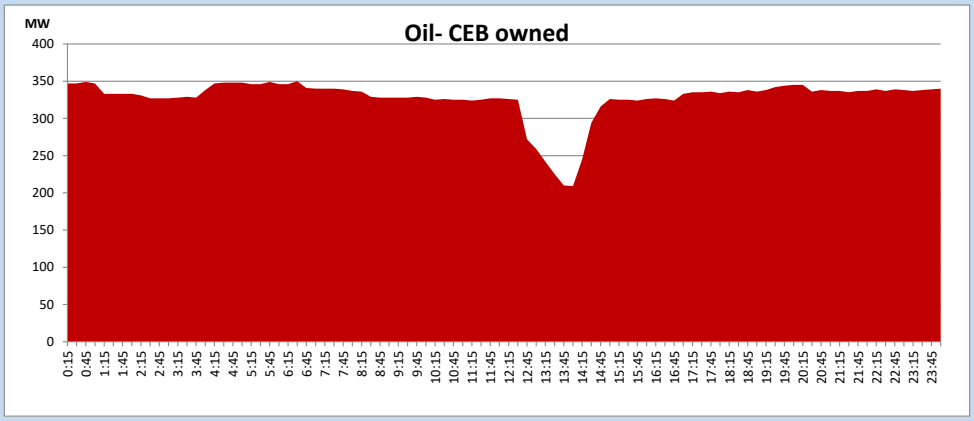


Solar and wind data is based on Telemetered Power Stations only

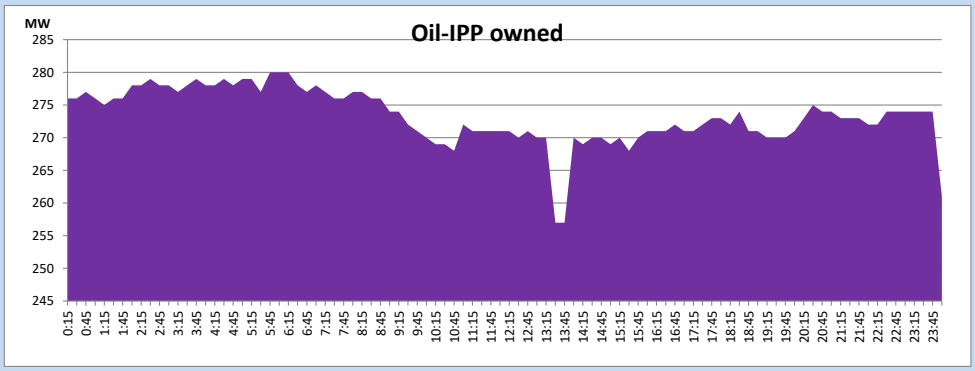
Coal Generation during March 16, 2024



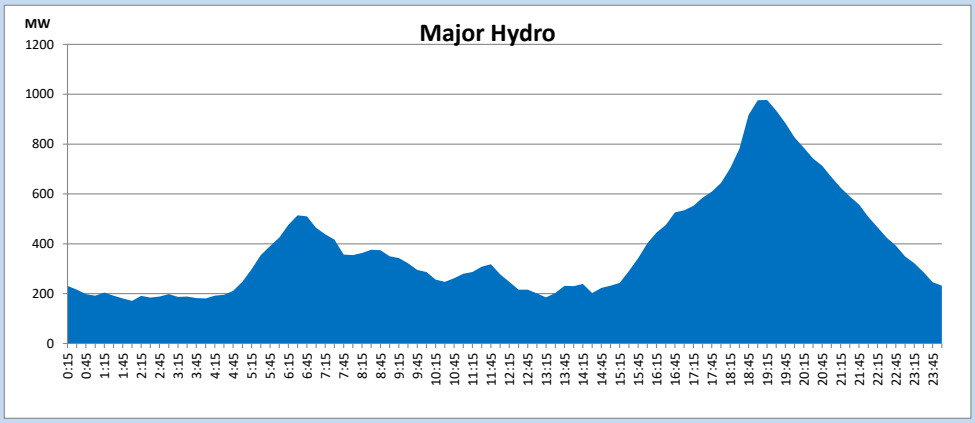
CEB Oil Plant Generation during **March 16, 2024**



IPP Oil Plant Generation during **March 16, 2024**

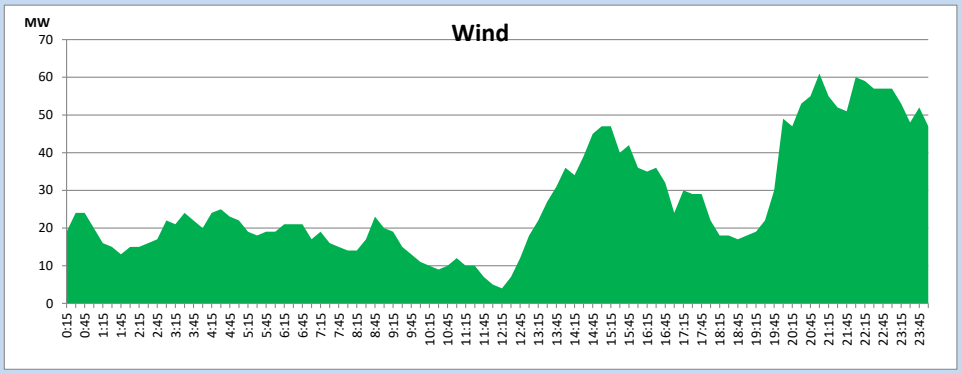


Major Hydro Generation during **March 16, 2024**



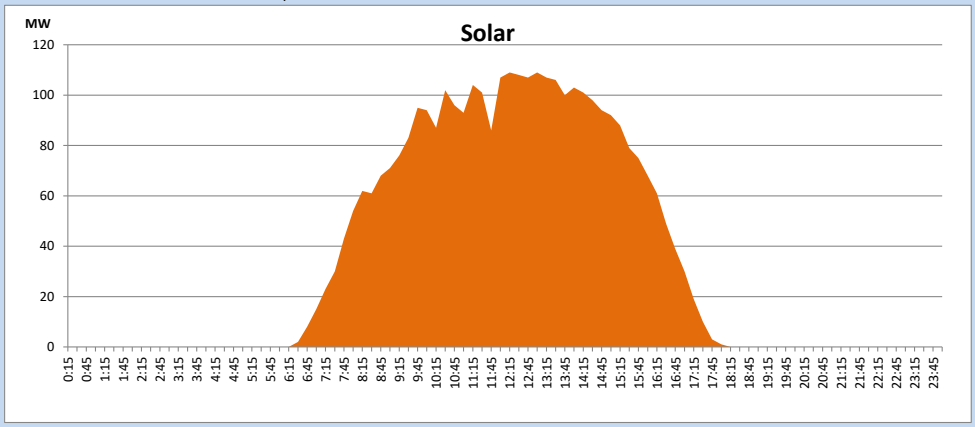
Wind Generation during March 16, 2024

Based on Telemetered Power Stations only

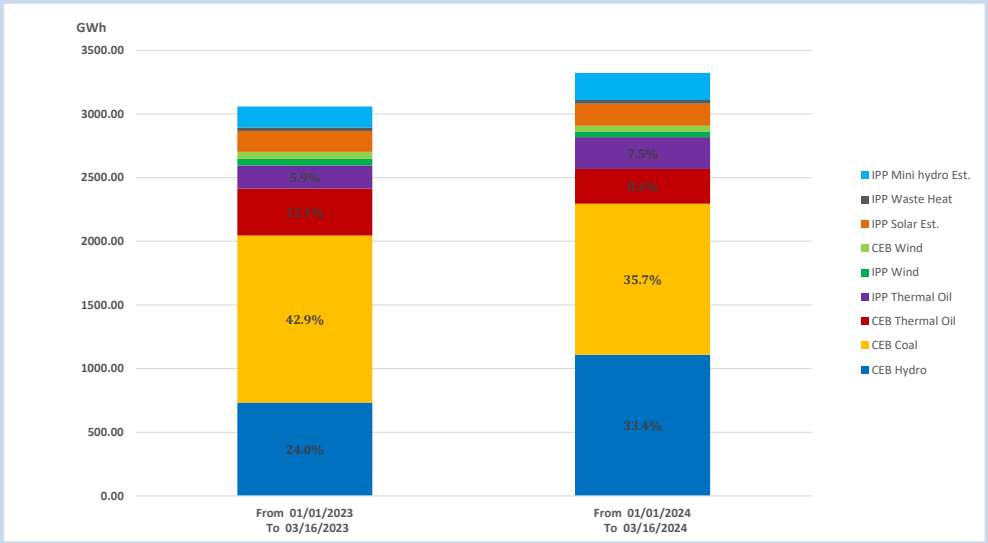


Solar Generation during March 16, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 03/16/2023 **3057 GWh**

From 01/01/2024 To 03/15/2024 **3322 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 16, 2024

1) LVPS Unit 03 which de-loaded up to 132MW(net) on 15.03.2024, reached full load by 12:50hrs.