Generation and Reservoirs Statistics

March 14, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

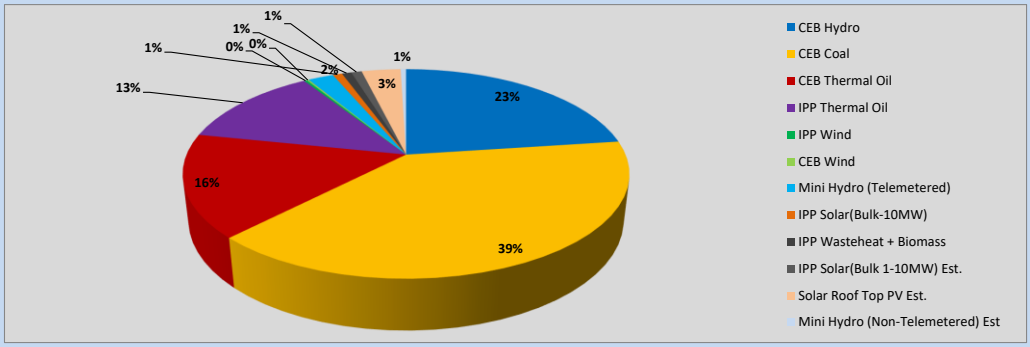


Table 01

	Generation (MWh)
CEB Hydro	11,326
CEB Coal	19,499
CEB Thermal Oil	7,874
IPP Thermal Oil	6,293
IPP Wind	126
CEB Wind	88
Mini Hydro (Telemetered)	1,092
IPP Solar (Bulk)	403
IPP Waste heat + Biomass	406
Total Generation (Excluding estimated figures)	**47,107**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	233
* Estimated IPP Solar PV (Bulk 1-10MW)	452
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	**49,462**

*** 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

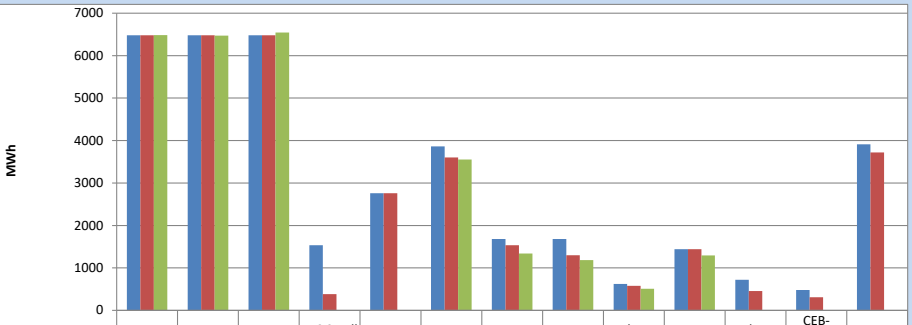
Category	Dispatch (GWh)	
CEB Hydro	149	22.84%
CEB Coal	269	41.10%
CEB Thermal Oil	99	15.08%
IPP Thermal	68	10.35%
SPP Wind	4	0.67%
CEB Wind	5	0.76%
Mini Hydro *	20	3.02%
IPP Solar *	35	5.36%
IPP Waste heat + BMP	5	0.82%
Total	**654**	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,088	33.72%
CEB Coal	1,149	35.62%
CEB Thermal Oil	257	7.97%
IPP Thermal	236	7.33%
SPP Wind	40	1.25%
CEB Wind	49	1.52%
Mini Hydro *	211	6.53%
IPP Solar *	167	5.19%
IPP Waste heat	28	0.86%
Total	**3,226**	

*Including estimated contribution from non telemetered plants

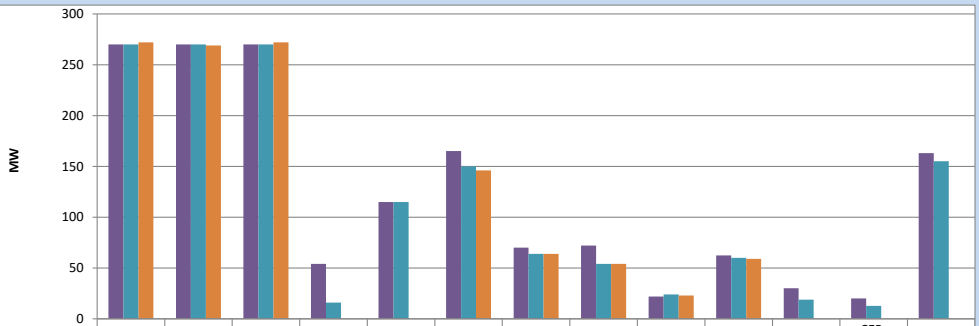
3. CEB owned Thermal Plant Dispatch March 14, 2024



	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	576	1440	454	307	3720
Actual generation (MWh)	6482.00	6472.00	6545.00	0.00	0.00	3551.00	1337.00	1186.00	507.00	1293.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on March 15, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

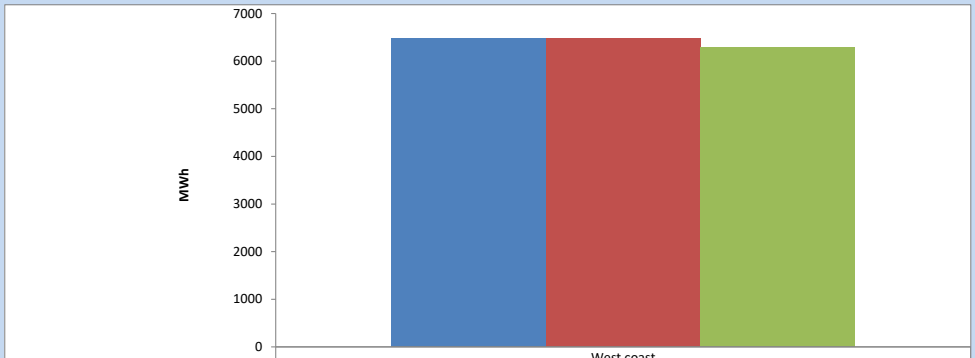


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	16	115	150	64	54	24	60	19	13	155
Night Peak Load (MW)	272	269	272	0	0	146	64	54	23	59	0	0	0

Plant availability is recorded at 6.00 am on March 15, 2024

5. IPP owned Thermal Plant Dispatch

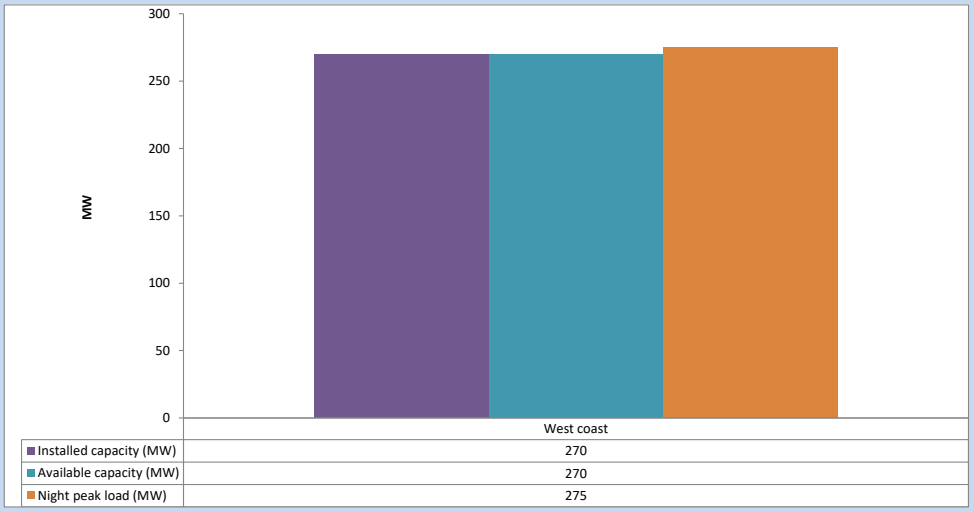
March 14, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	6293

Available Generation is estimated based on plant availability at 6.00am on March 15, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

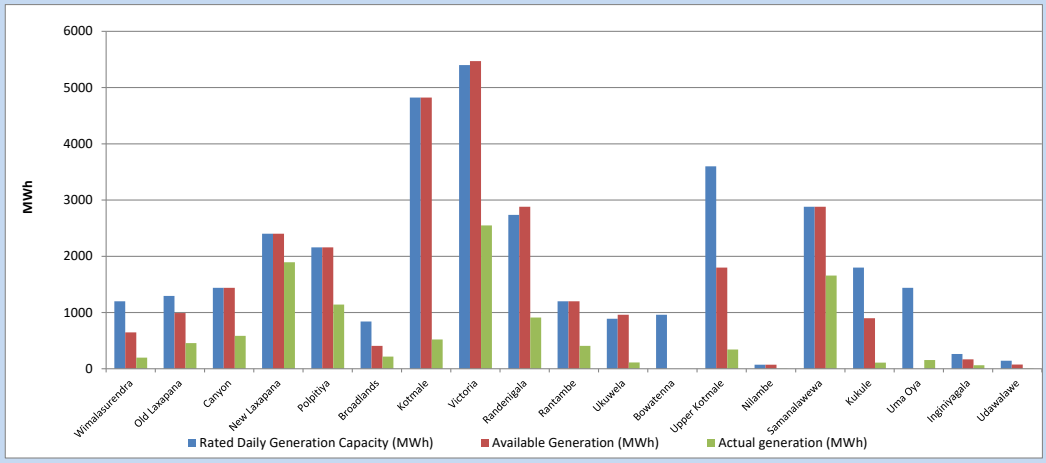


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	275

Plant availability is recorded at 6.00 am on March 15, 2024

7. Major Hydro Plant Dispatch

March 14, 2024

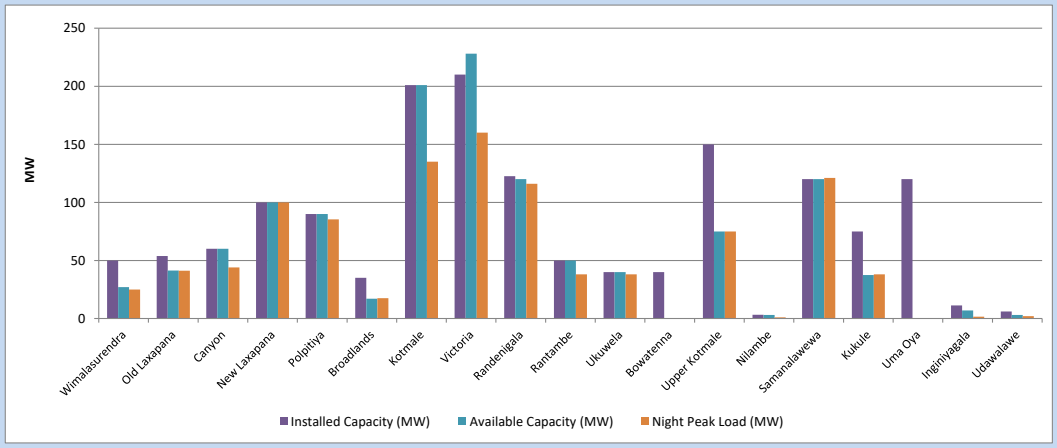


Available Generation is estimated based on plant availability at 6.00am on March 15, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

March 14, 2024



Plant availability is recorded at 6.00 am on March 15, 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	199
Old Laxapana	54	41	41	456
Canyon	60	60	44	586
New Laxapana	100	100	100	1,895
Polpitiya	90	90	85	1,140
Broadlands	35	17	18	216
Kotmale	201	201	135	520
Victoria	210	228	160	2,549
Randenigala	123	120	116	910
Rantambe	50	50	38	408
Ukuwela	40	40	38	111
Bowatenna	40	0	0	0
Upper Kotmale	150	75	75	344
Nilambe	3	3	1	2
Samanalawewa	120	120	121	1,658
Kukule	75	38	38	108
Uma Oya (Testing)	120	0	0	156
Inginiyagala	11	7	2	62
Udawalawe	6	3	2	6
Puttalam Coal I	270	270	272	6,482
Puttalam Coal II	270	270	269	6,472
Puttalam Coal III	270	270	272	6,545
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	146	3,551
Sapugaskanda A	70	64	64	1,337
Sapugaskanda B	72	54	54	1,186
Uthura Janani	22	24	23	507
Barge CEB	62	60	59	1,293
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	270	275	6,293
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,970	2,534	47,107

Note-

Plant availability is the availability recorded at 6 am on March 15, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

March 14, 2024

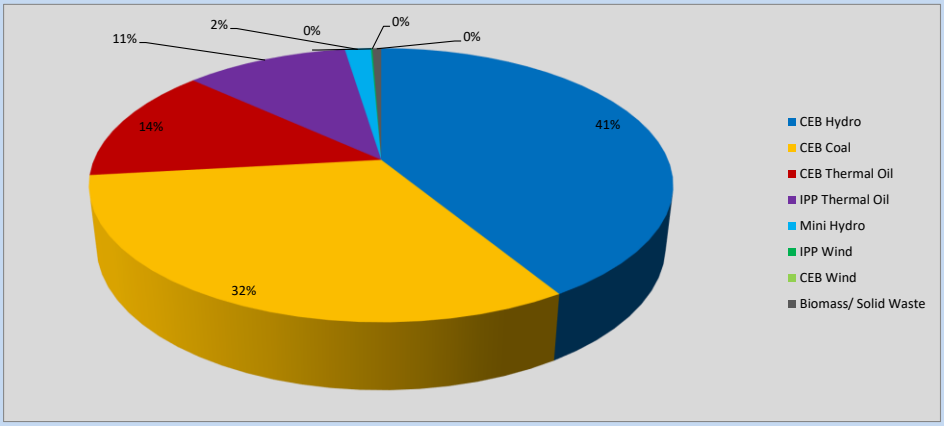


Table 06

CEB Hydro	1051	MW
CEB Coal	813	MW
CEB Thermal Oil	346	MW
IPP Thermal Oil	275	MW
Mini Hydro (Telemetered)	44	MW
IPP Wind	2.5	MW
CEB Wind	0	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

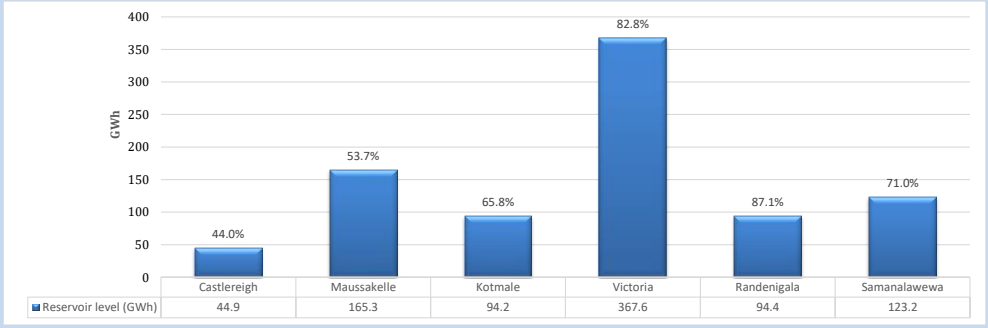
Table 07

Night Peak*	2,546	MW
Day Peak Maximum Demand	2,290	MW
Day Peak Minimum Demand	1,823	MW
Off Peak Minimum Demand	1,545	MW

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

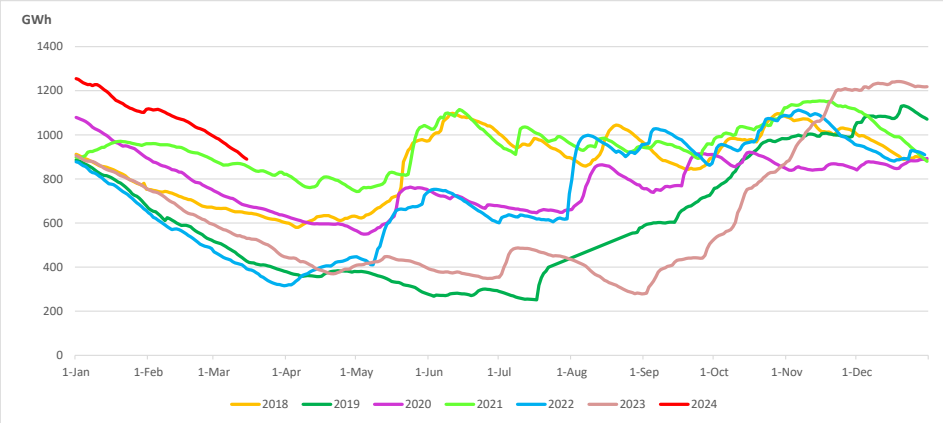
Reservoir Levels -

as at 06.00 Hr on March 15, 2024

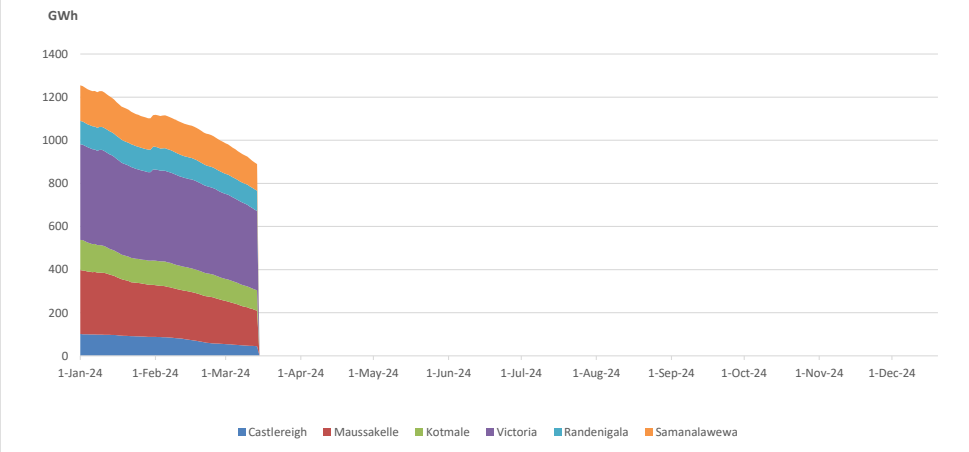


Total Reservoir Level 889.6 GWh
% of Total capacity 69.6%

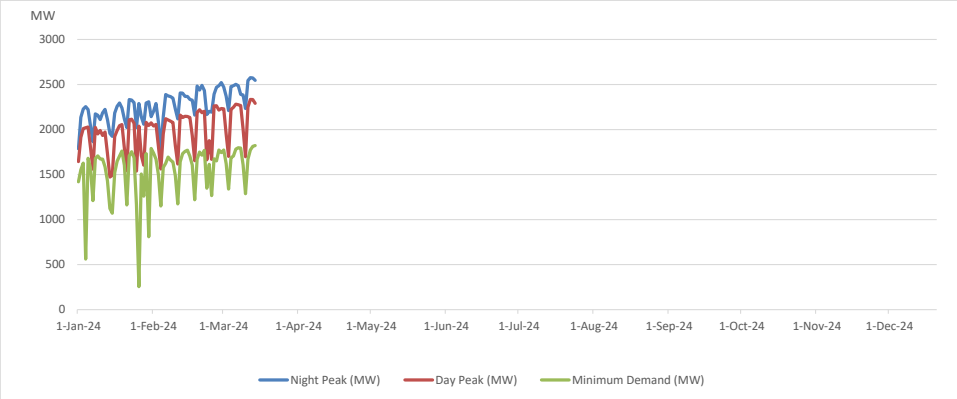
11. Comparison of Total Reservoir Storage Levels with Past Years



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

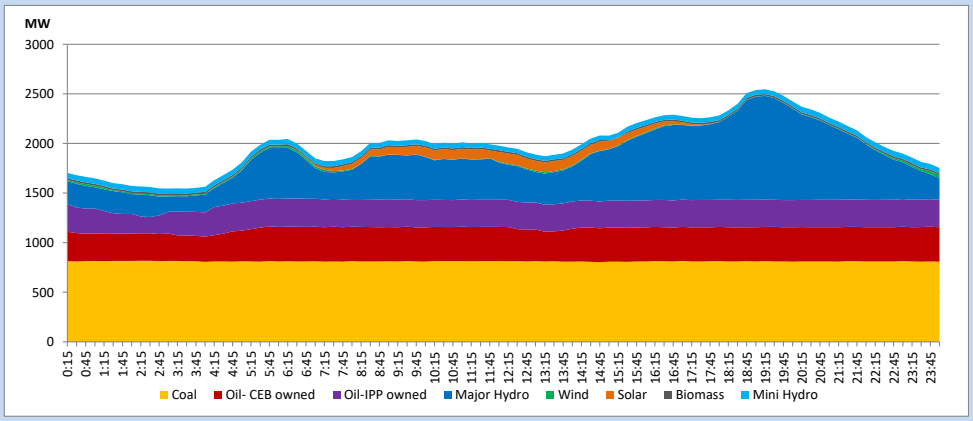


13. Variation of Demand during the current year



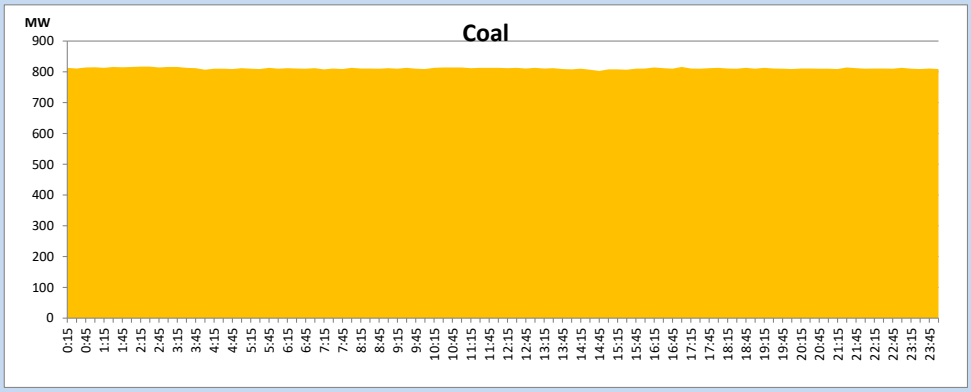
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve March 14, 2024

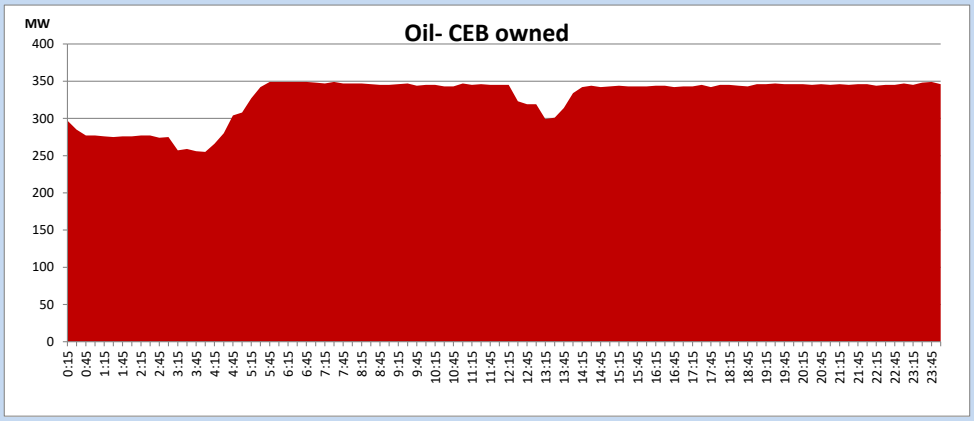


Solar and wind data is based on Telemetered Power Stations only

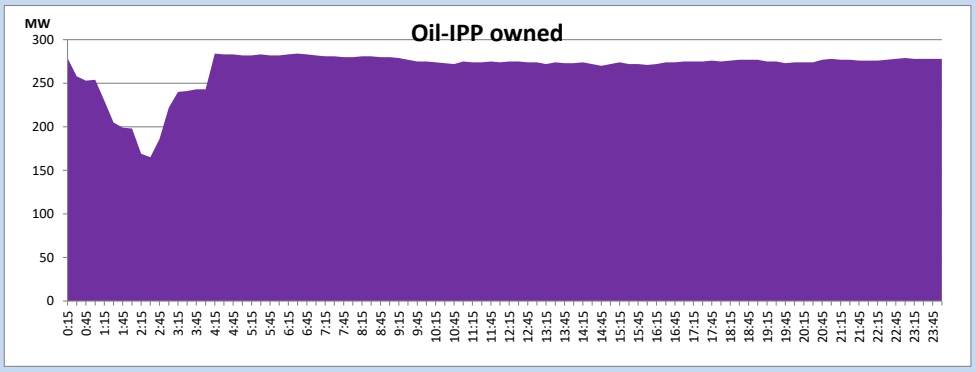
Coal Generation during March 14, 2024



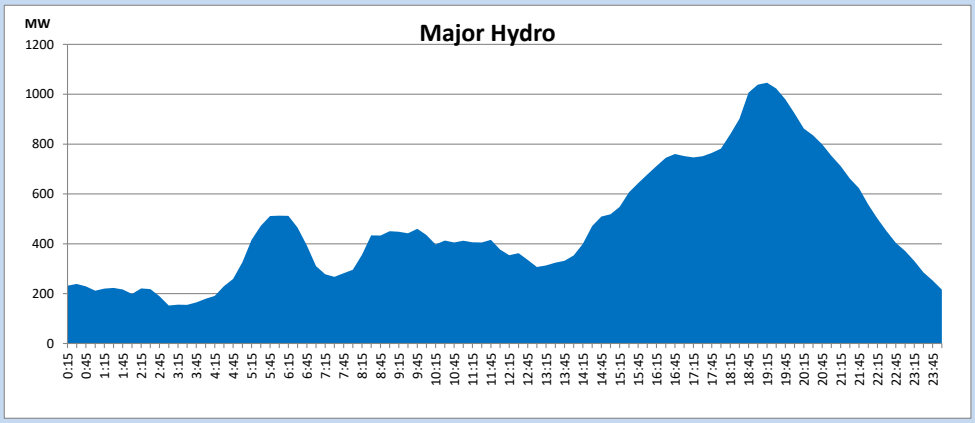
CEB Oil Plant Generation during **March 14, 2024**



IPP Oil Plant Generation during **March 14, 2024**

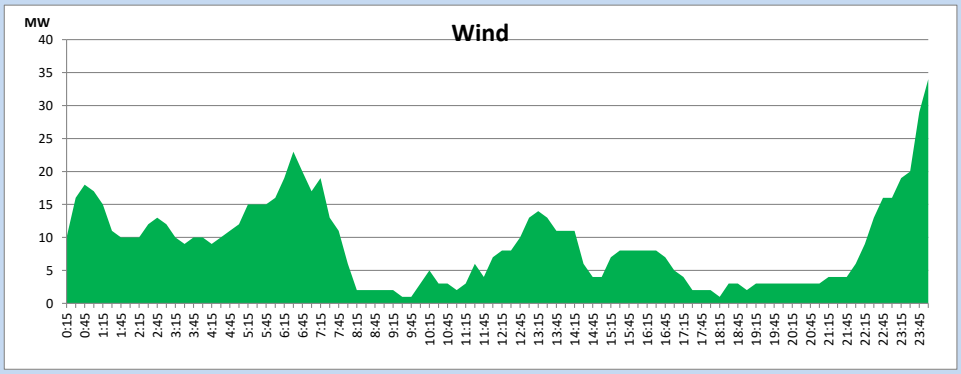


Major Hydro Generation during **March 14, 2024**



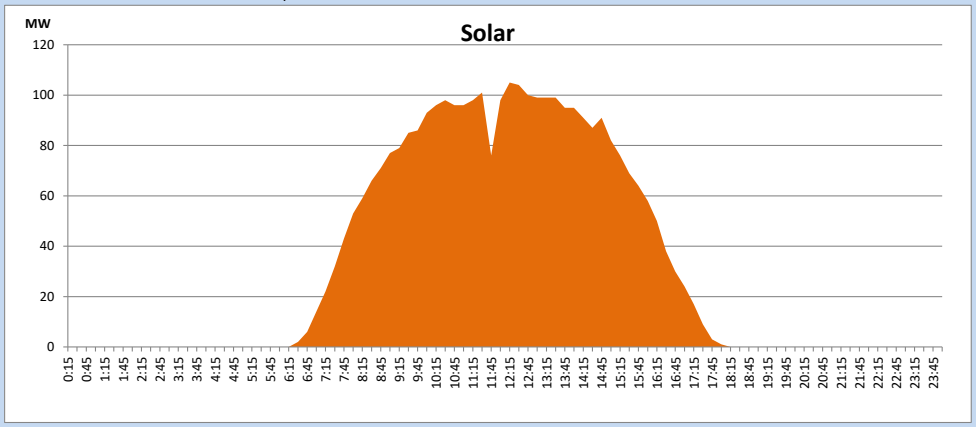
Wind Generation during March 14, 2024

Based on Telemetered Power Stations only

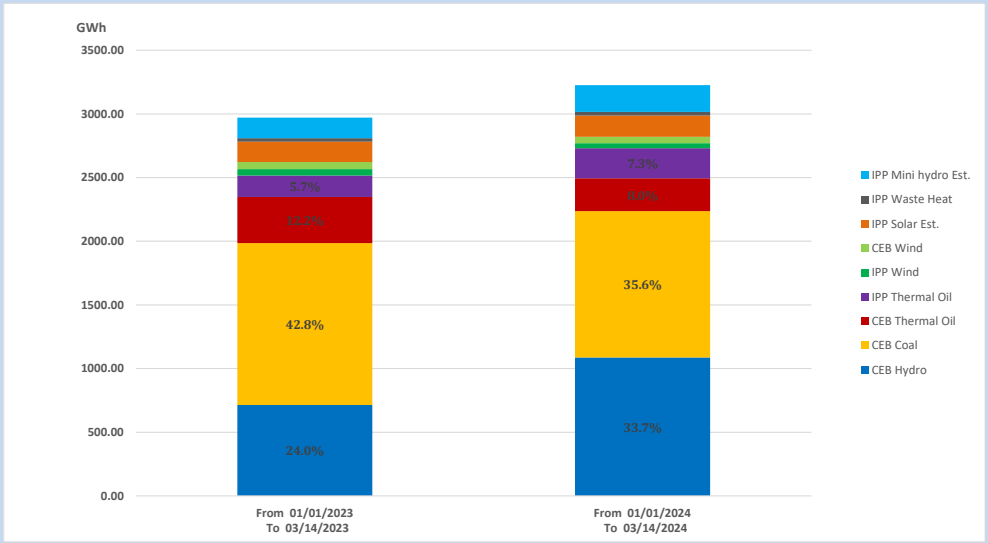


Solar Generation during March 14, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 03/14/2023	**2970 GWh**
From 01/01/2024 To 03/14/2024	**3226 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 14, 2024

1) Samanalawewa unit 02 made unavailable at 05:00hrs due to thrust bearing oil leak and the unit 02 resumed generation from 11:41hrs.