Generation and Reservoirs Statistics

March 13, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

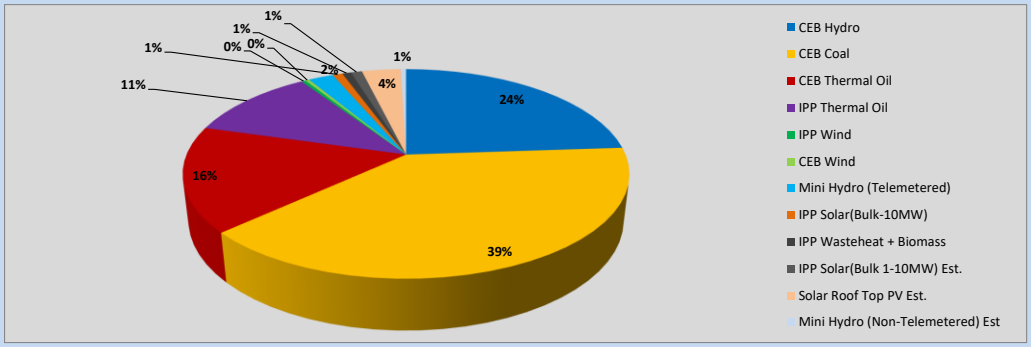


Table 01

	Generation (MWh)
CEB Hydro	11,880
CEB Coal	19,512
CEB Thermal Oil	8,083
IPP Thermal Oil	5,602
IPP Wind	179
CEB Wind	172
Mini Hydro (Telemetered)	1,077
IPP Solar (Bulk)	425
IPP Waste heat + Biomass	376
Total Generation (Excluding estimated figures)	**47,306**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	230
* Estimated IPP Solar PV (Bulk 1-10MW)	482
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	**49,688**

*** 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	138	22.83%
CEB Coal	249	41.24%
CEB Thermal Oil	91	15.01%
IPP Thermal	61	10.16%
SPP Wind	4	0.70%
CEB Wind	5	0.81%
Mini Hydro *	18	3.04%
IPP Solar *	33	5.38%
IPP Waste heat + BMP	5	0.82%
Total	**605**	

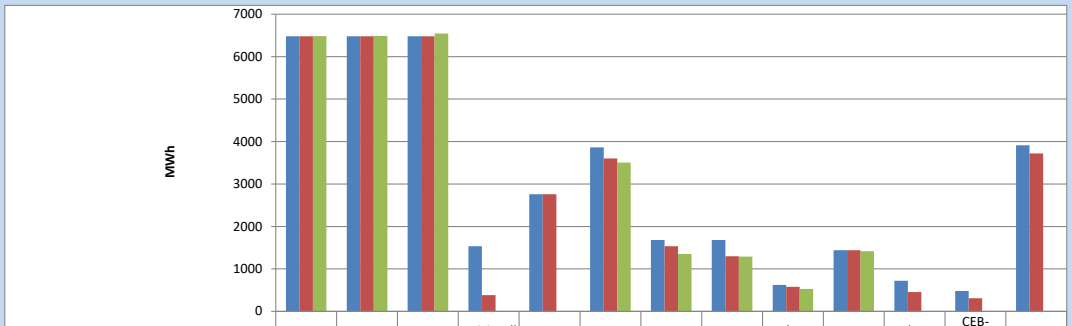
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,076	33.89%
CEB Coal	1,129	35.56%
CEB Thermal Oil	249	7.85%
IPP Thermal	230	7.25%
SPP Wind	40	1.27%
CEB Wind	49	1.54%
Mini Hydro *	209	6.59%
IPP Solar *	165	5.19%
IPP Waste heat	27	0.86%
Total	**3,176**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

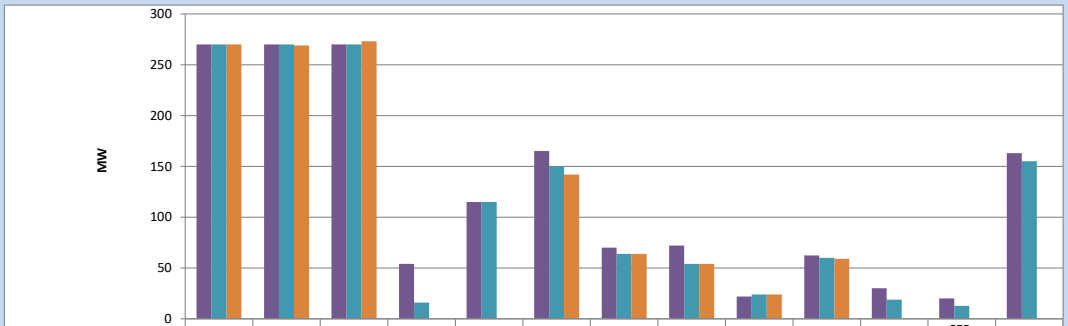
March 13, 2024



	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	6486.00	6544.00	0.00	0.00	3504.00	1349.00	1288.00	528.00	1414.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on March 14, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

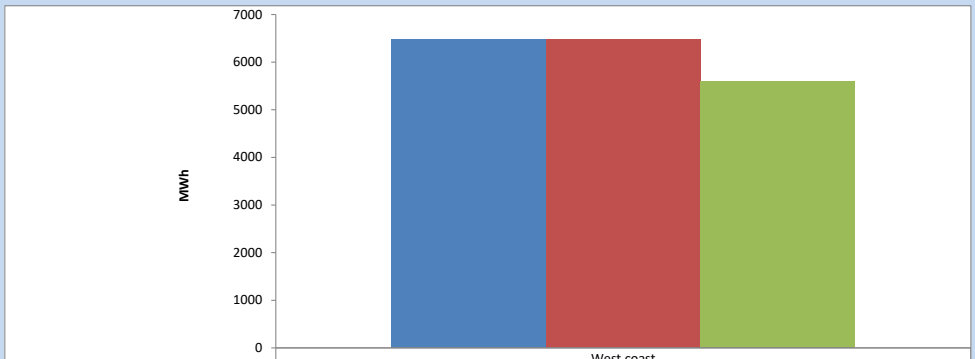


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	16	115	150	64	54	24	60	19	13	155
Night Peak Load (MW)	270	269	273	0	0	142	64	54	24	59	0	0	0

Plant availability is recorded at 6.00 am on March 14, 2024

5. IPP owned Thermal Plant Dispatch

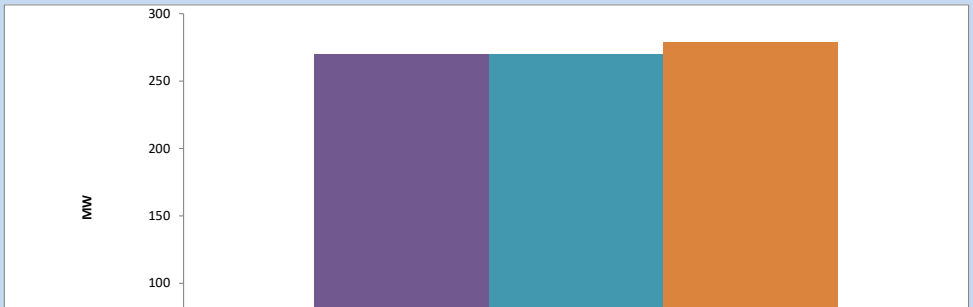
March 13, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	5602.00

Available Generation is estimated based on plant availability at 6.00am on March 14, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

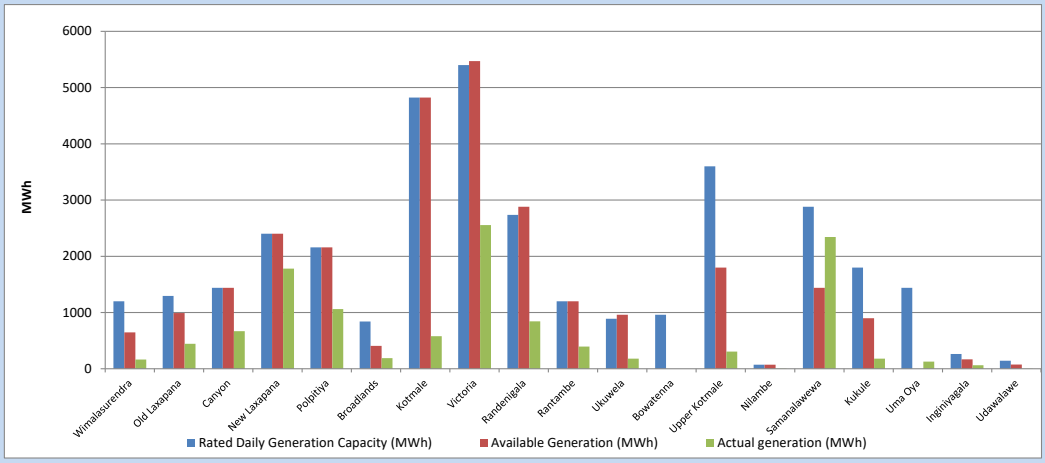


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	279

Plant availability is recorded at 6.00 am on March 14, 2024

7. Major Hydro Plant Dispatch

March 13, 2024

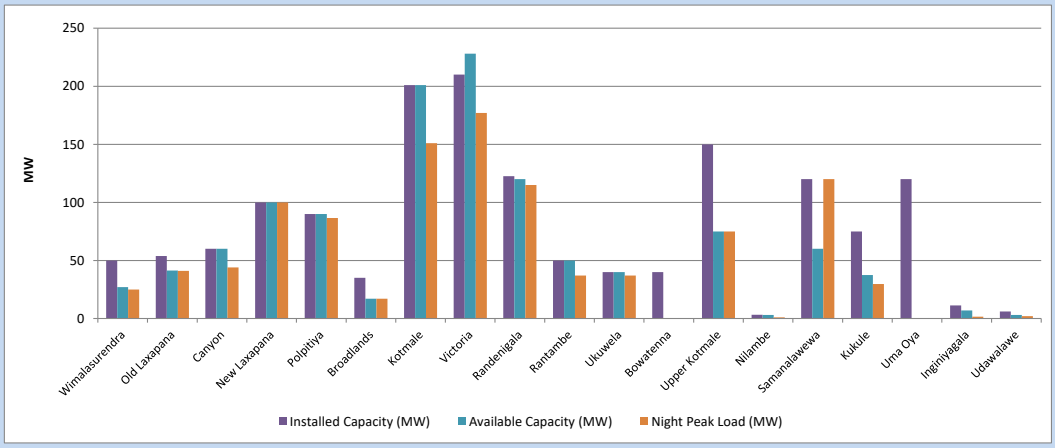


Available Generation is estimated based on plant availability at 6.00am on March 14, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

March 13, 2024



Plant availability is recorded at 6.00 am on March 14, 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	163
Old Laxapana	54	41	41	445
Canyon	60	60	44	667
New Laxapana	100	100	100	1,782
Polpitiya	90	90	87	1,060
Broadlands	35	17	17	189
Kotmale	201	201	151	580
Victoria	210	228	177	2,554
Randenigala	123	120	115	842
Rantambe	50	50	37	395
Ukuwela	40	40	37	181
Bowatenna	40	0	0	0
Upper Kotmale	150	75	75	305
Nilambe	3	3	1	5
Samanalawewa	120	60	120	2,344
Kukule	75	38	30	179
Uma Oya (Testing)	120	0	0	126
Inginiyagala	11	7	2	62
Udawalawe	6	3	2	1
Puttalam Coal I	270	270	270	6,482
Puttalam Coal II	270	270	269	6,486
Puttalam Coal III	270	270	273	6,544
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	142	3,504
Sapugaskanda A	70	64	64	1,349
Sapugaskanda B	72	54	54	1,288
Uthura Janani	22	24	24	528
Barge CEB	62	60	59	1,414
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	279	5,602
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,910	2,560	47,306

Note-

Plant availability is the availability recorded at 6 am on March 14, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

March 13, 2024

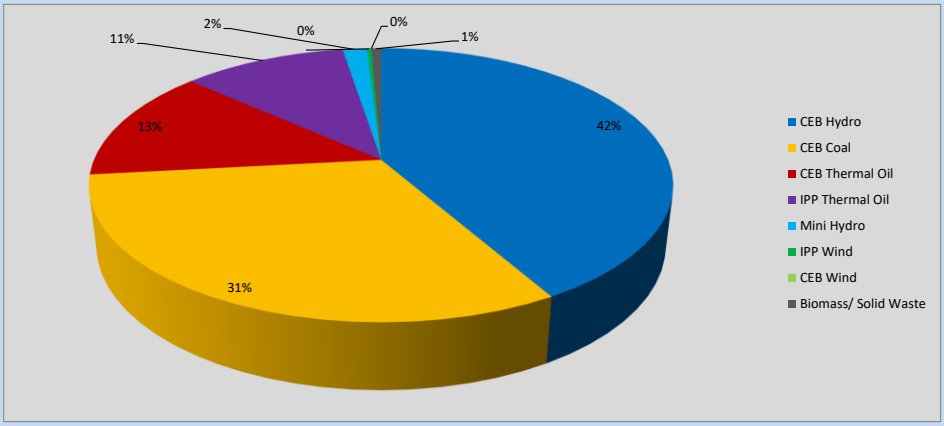


Table 06

CEB Hydro	1073	MW
CEB Coal	812	MW
CEB Thermal Oil	343	MW
IPP Thermal Oil	279	MW
Mini Hydro (Telemetered)	41	MW
IPP Wind	7.6	MW
CEB Wind	0	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

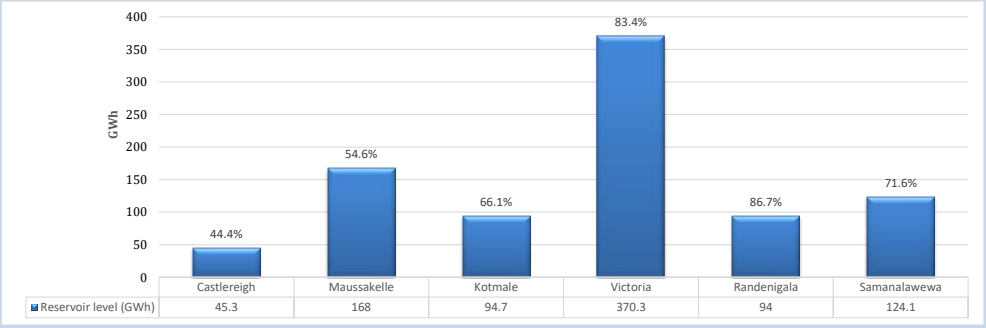
Table 07

Night Peak*	2,573	MW
Day Peak Maximum Demand	2,332	MW
Day Peak Minimum Demand	1,813	MW
Off Peak Minimum Demand	1,544	MW

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

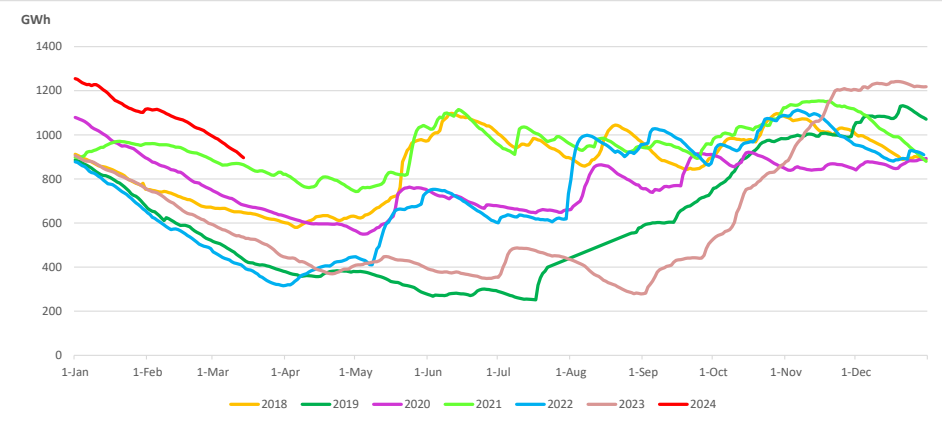
Reservoir Levels -

as at 06.00 Hr on March 14, 2024

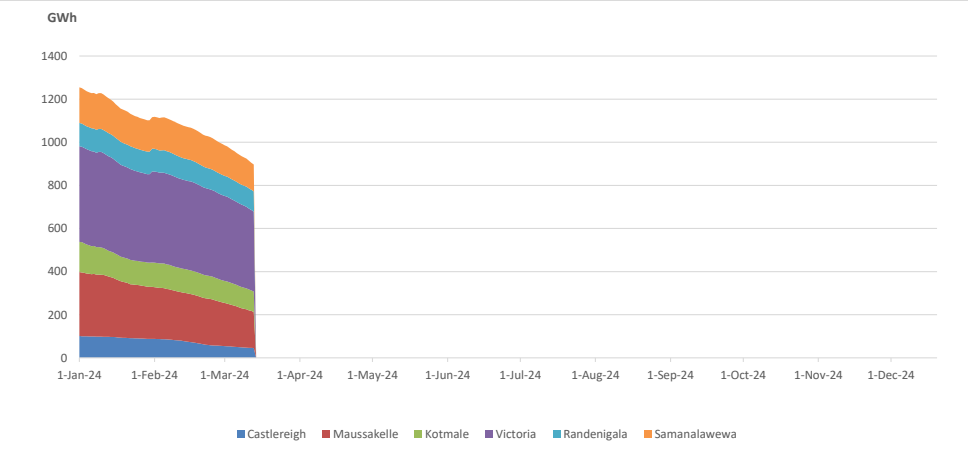


Total Reservoir Level	896.4 GWh
% of Total capacity	70.1%

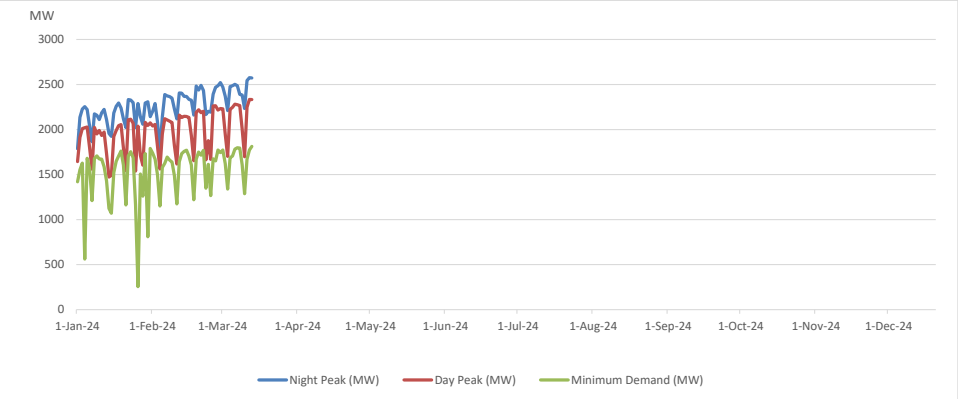
11. Comparison of Total Reservoir Storage Levels with Past Years



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

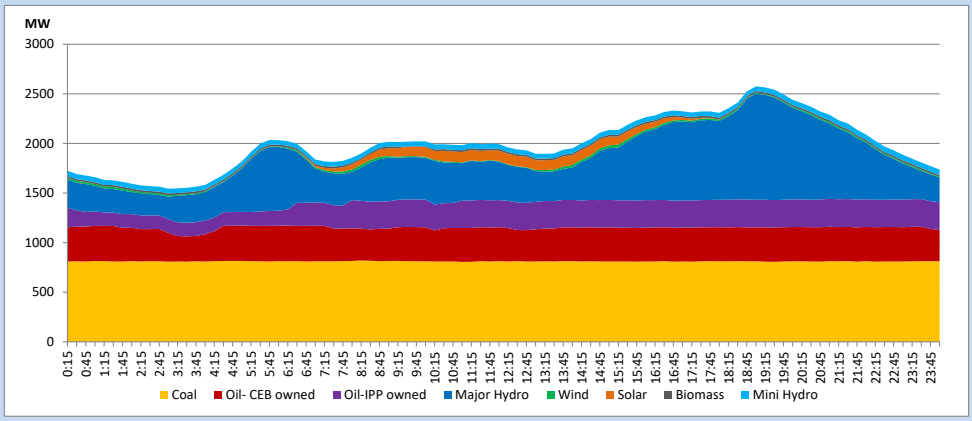


13. Variation of Demand during the current year



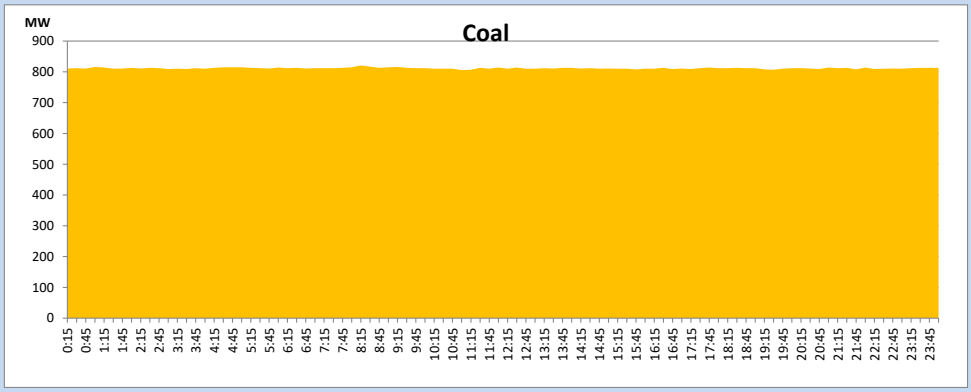
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve March 13, 2024

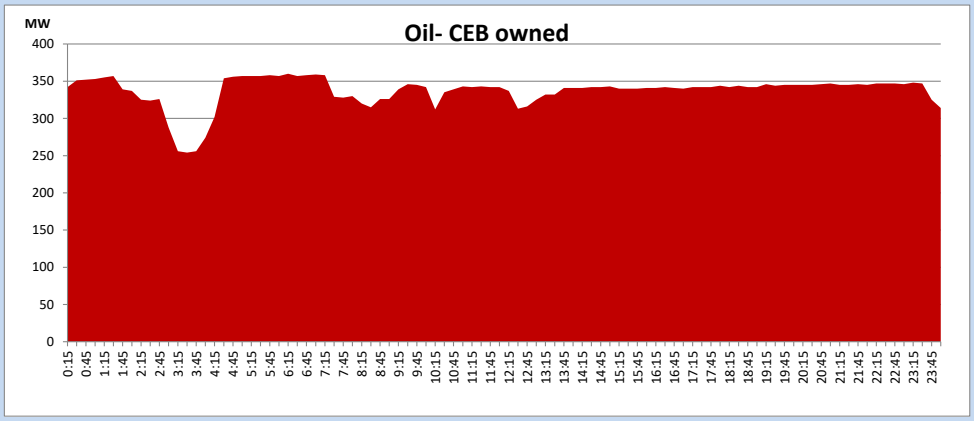


Solar and wind data is based on Telemetered Power Stations only

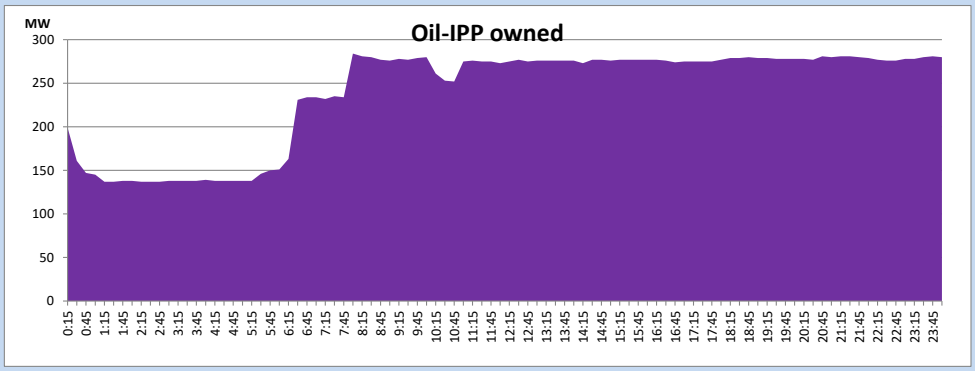
Coal Generation during March 13, 2024



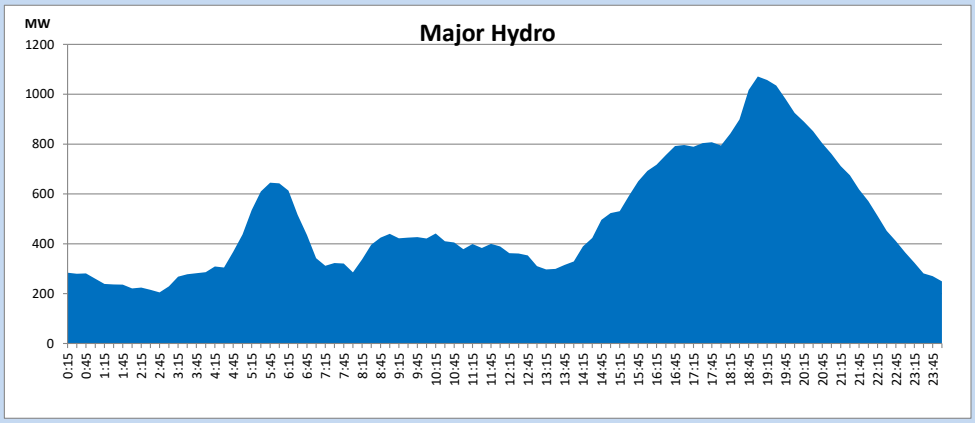
CEB Oil Plant Generation during **March 13, 2024**



IPP Oil Plant Generation during **March 13, 2024**

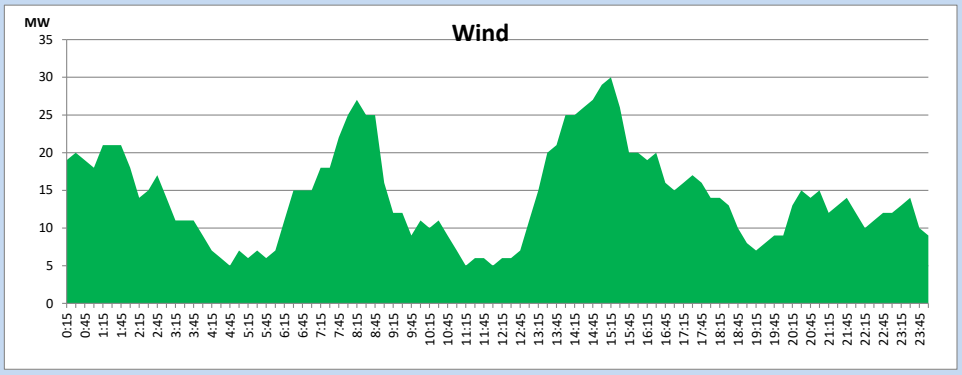


Major Hydro Generation during **March 13, 2024**



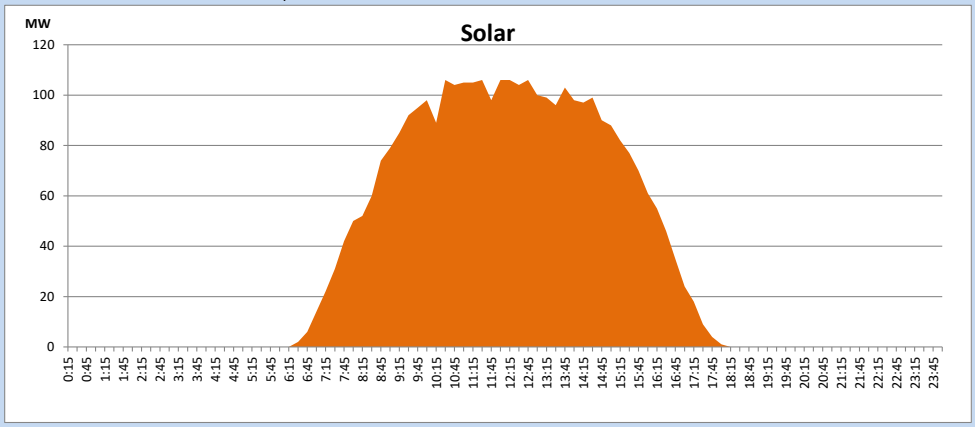
Wind Generation during March 13, 2024

Based on Telemetered Power Stations only

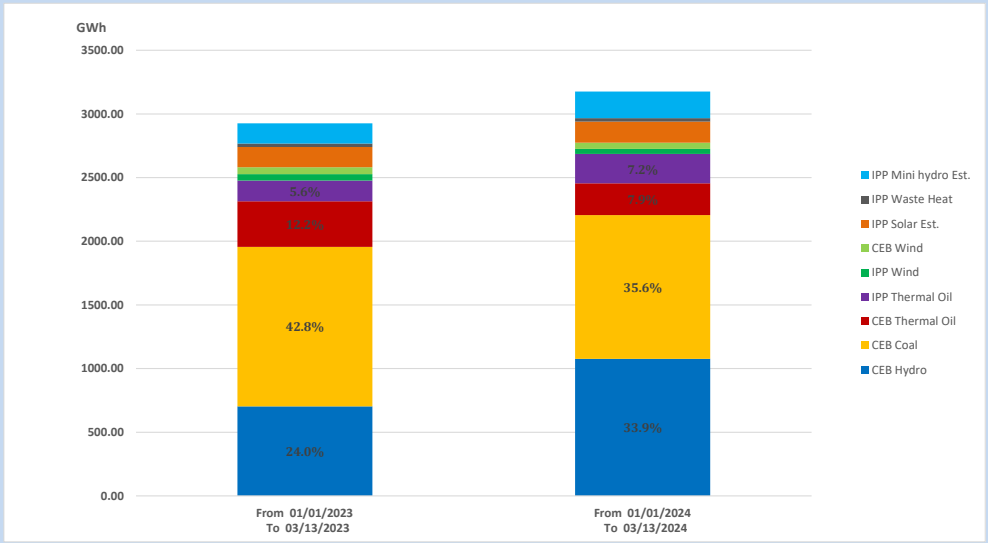


Solar Generation during March 13, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 03/13/2023	**2926 GWh**
From 01/01/2024 To 03/13/2024	**3176 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
ACE Embilipitiya	Heavy Fuel

Major Incidents reported during the day March 13, 2024

1) Valachchenai GSS 132/33kV T/F 02 tripped only from the 33kV side at 06:13hrs along with 33kV feeder 04 and at the same time, 33kV B/S tripped causing 33kV feeders 02, 06 & 08 to be dead, due to the operation of E/F protection. Valachchenai GSS T/F 02 was normalized at 06:24hrs and
33kV B/S CB, 33kV feeders 02, 06 & 08 were normalized by 06:20hrs. Valachchenai 33kV feeder 04 was normalized at 06:24hrs.