Generation and Reservoirs Statistics

May 20, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

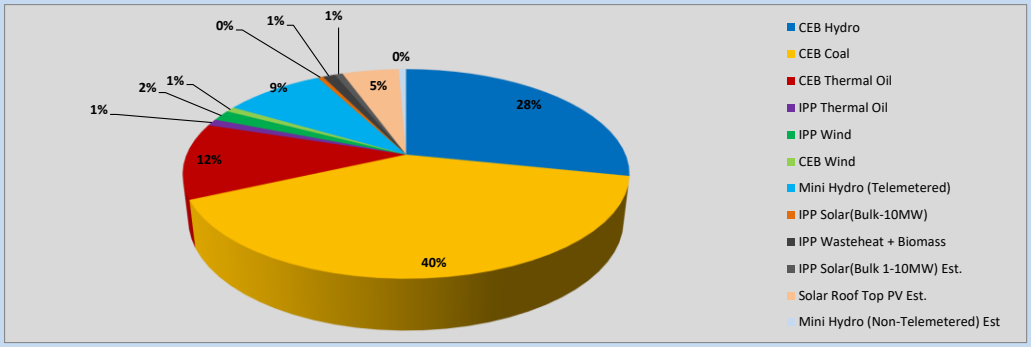


Table 01

	Generation (MWh)
CEB Hydro	12,268
CEB Coal	17,357
CEB Thermal Oil	5,094
IPP Thermal Oil	456
IPP Wind	728
CEB Wind	347
Mini Hydro (Telemetered)	3,802
IPP Solar (Bulk)	203
IPP Waste heat + Biomass	460
Total Generation (Excluding estimated figures)	**40,715**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	275
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	**43,424**

*** Estimated figures of CEB generation report**

Table 02

	Installed Capacity (MW)
CEB Hydro	1530
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	270
IPP Wind	148
CEB Wind	100
Mini Hydro	416
IPP Waste heat + Biomass	50
IPP Solar	110
Rooftop Solar (Ordinary)	250
Rooftop Solar (LT Bulk)	234
Rooftop Solar (HT Bulk)	56

Data Source - Monthly Review Report [Jan-2024]

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	225	24.06%
CEB Coal	383	40.81%
CEB Thermal Oil	191	20.38%
IPP Thermal	2	0.19%
SPP Wind	8	0.86%
CEB Wind	11	1.13%
Mini Hydro *	55	5.90%
IPP Solar *	55	5.88%
IPP Waste heat + BMP	7	0.80%
Total	**937**	

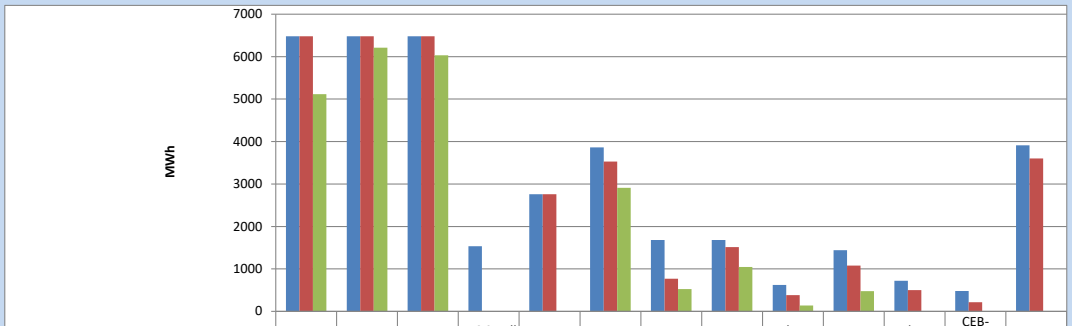
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,867	29.40%
CEB Coal	2,343	36.91%
CEB Thermal Oil	816	12.86%
IPP Thermal	409	6.45%
SPP Wind	66	1.03%
CEB Wind	74	1.16%
Mini Hydro *	366	5.77%
IPP Solar *	351	5.53%
IPP Waste heat	56	0.89%
Total	**6,349**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

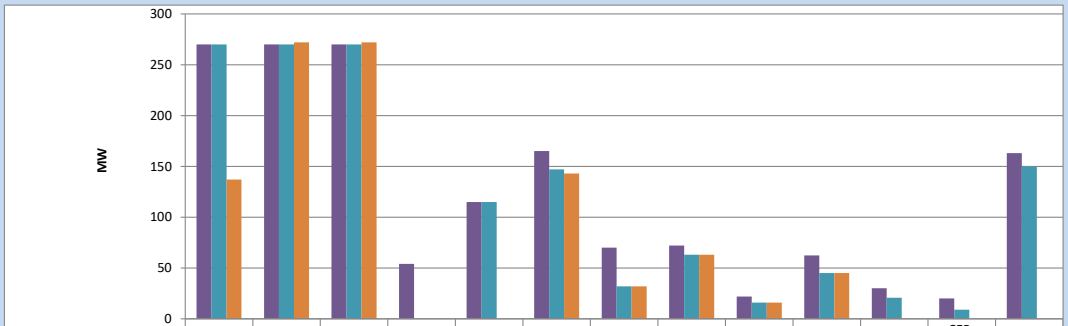
May 20, 2024



	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	0	2760	3528	768	1512	384	1080	499	216	3600
Actual generation (MWh)	5114.00	6212.00	6031.00	0.00	0.00	2911.00	523.00	1044.00	139.00	477.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on May 21, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

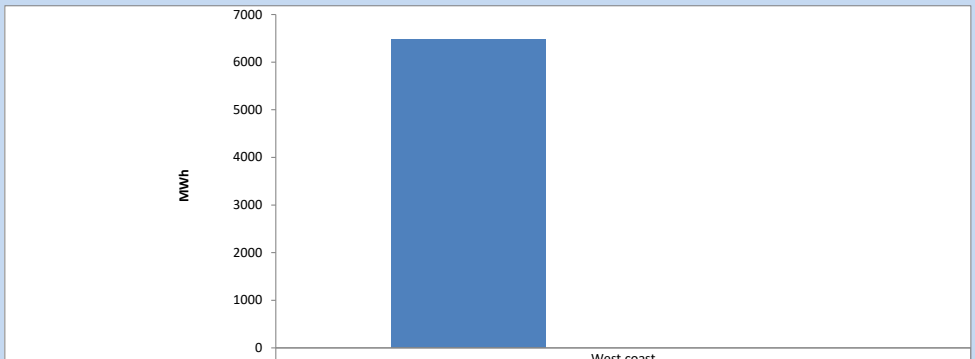


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	0	115	147	32	63	16	45	21	9	150
Night Peak Load (MW)	137	272	272	0	0	143	32	63	16	45	0	0	0

Plant availability is recorded at 6.00 am on May 21, 2024

5. IPP owned Thermal Plant Dispatch

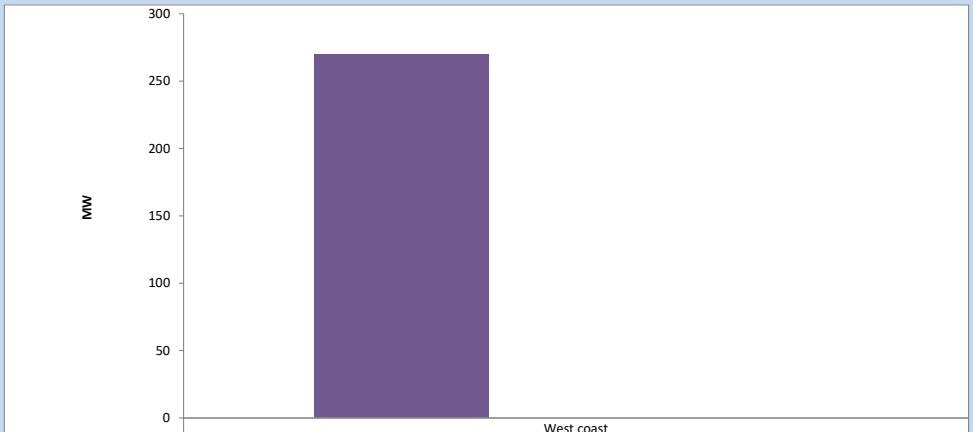
May 20, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	0
Actual generation (MWh)	0

Available Generation is estimated based on plant availability at 6.00am on May 21, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

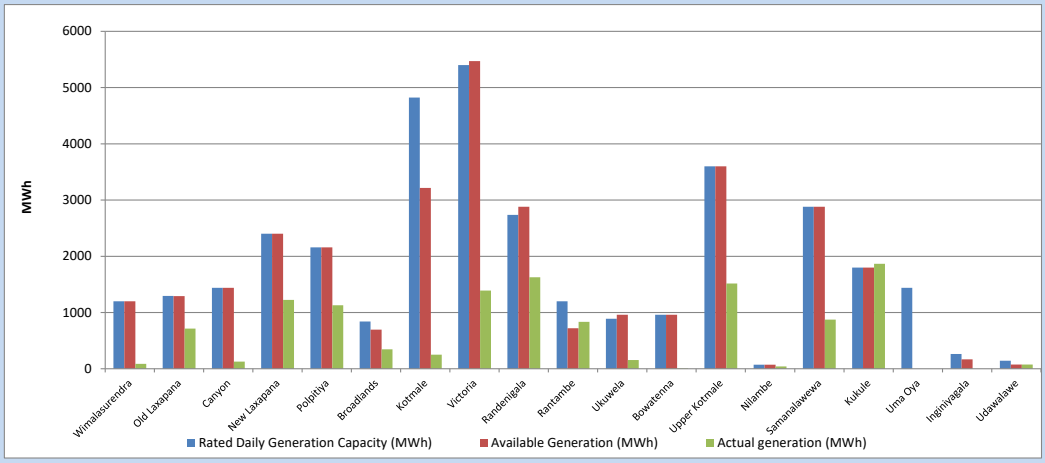


	West coast
Installed capacity (MW)	270
Available capacity (MW)	0
Night peak load (MW)	0

Plant availability is recorded at 6.00 am on May 21, 2024

7. Major Hydro Plant Dispatch

May 20, 2024

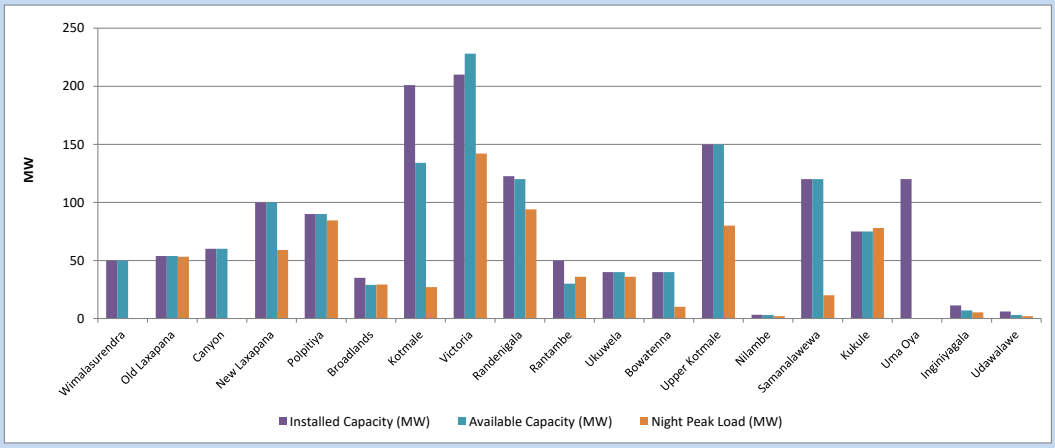


Available Generation is estimated based on plant availability at 6.00am on May 21, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

May 20, 2024



Plant availability is recorded at 6.00 am on May 21, 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	50	0	88
Old Laxapana	54	54	53	714
Canyon	60	60	0	128
New Laxapana	100	100	59	1,225
Polpitiya	90	90	85	1,130
Broadlands	35	29	29	347
Kotmale	201	134	27	250
Victoria	210	228	142	1,390
Randenigala	123	120	94	1,628
Rantambe	50	30	36	834
Ukuwela	40	40	36	154
Bowatenna	40	40	10	9
Upper Kotmale	150	150	80	1,516
Nilambe	3	3	2	40
Samanalawewa	120	120	20	873
Kukule	75	75	78	1,868
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	0
Udawalawe	6	3	2	74
Puttalam Coal I	270	270	137	5,114
Puttalam Coal II	270	270	272	6,212
Puttalam Coal III	270	270	272	6,031
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	143	2,911
Sapugaskanda A	70	32	32	523
Sapugaskanda B	72	63	63	1,044
Uthura Janani	22	16	16	139
Barge CEB	62	45	45	477
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	9	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	456
Total	3,594	2,741	2,028	40,715

Note-

Plant availability is the availability recorded at 6 am on May 21, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 20, 2024

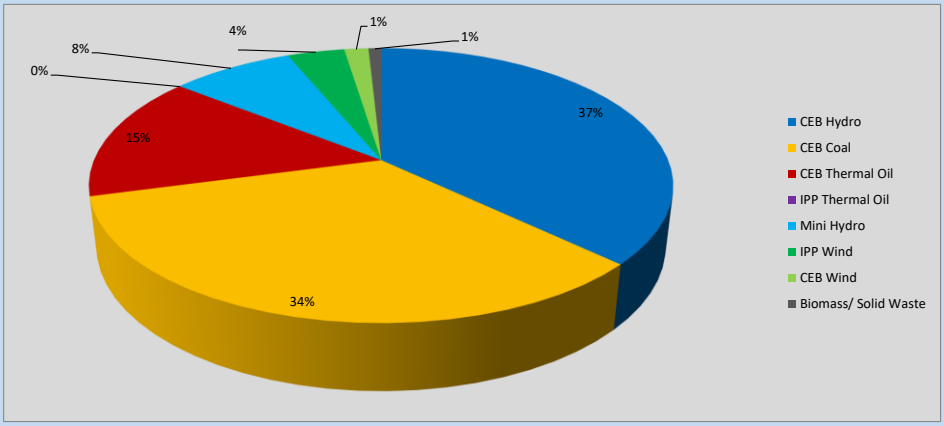


Table 06

CEB Hydro	746	MW
CEB Coal	681	MW
CEB Thermal Oil	299	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	163	MW
IPP Wind	76.3	MW
CEB Wind	32.3	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

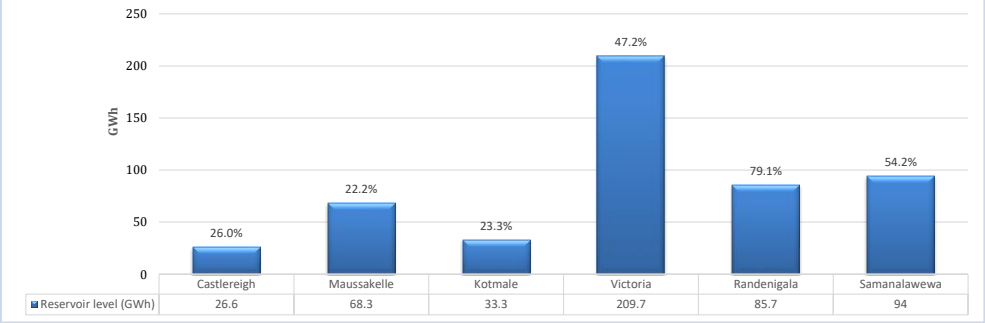
Table 07

Night Peak*	2,016	MW
Day Peak Maximum Demand	1,990	MW
Day Peak Minimum Demand	1,604	MW
Off Peak Minimum Demand	1,207	MW

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

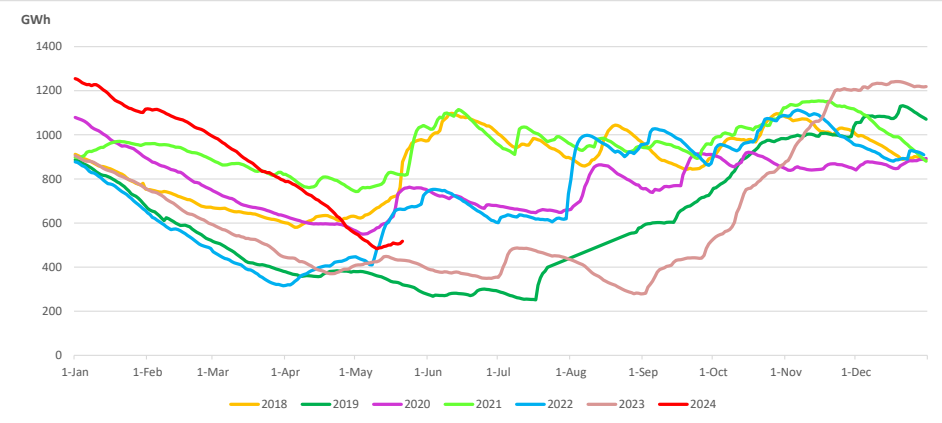
Reservoir Levels -

as at 06.00 Hr on May 21, 2024

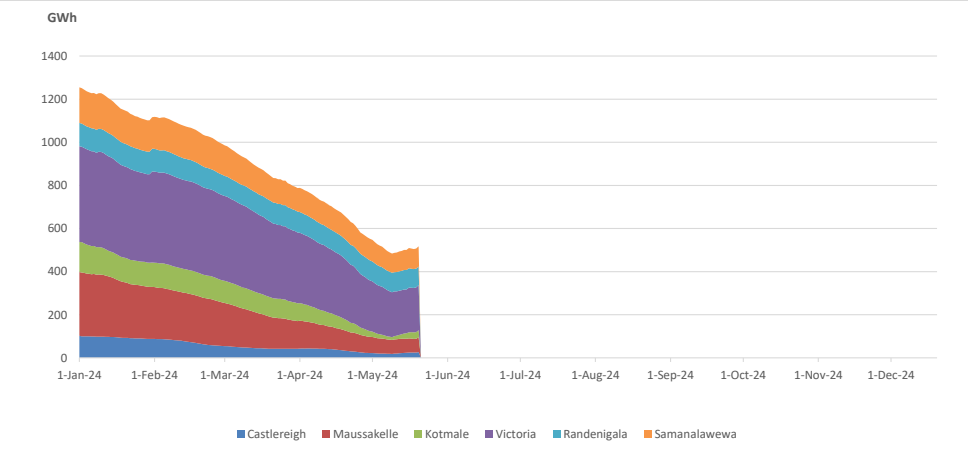


Total Reservoir Level 517.6 GWh
% of Total capacity 40.5%

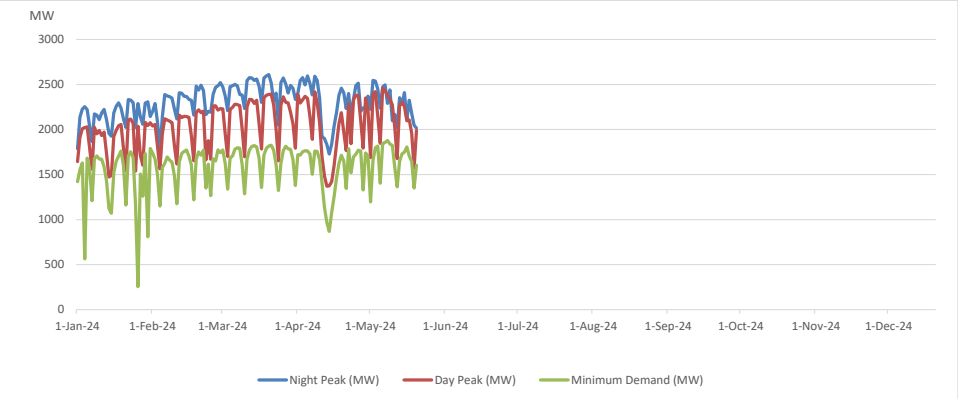
11. Comparison of Total Reservoir Storage Levels with Past Years



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

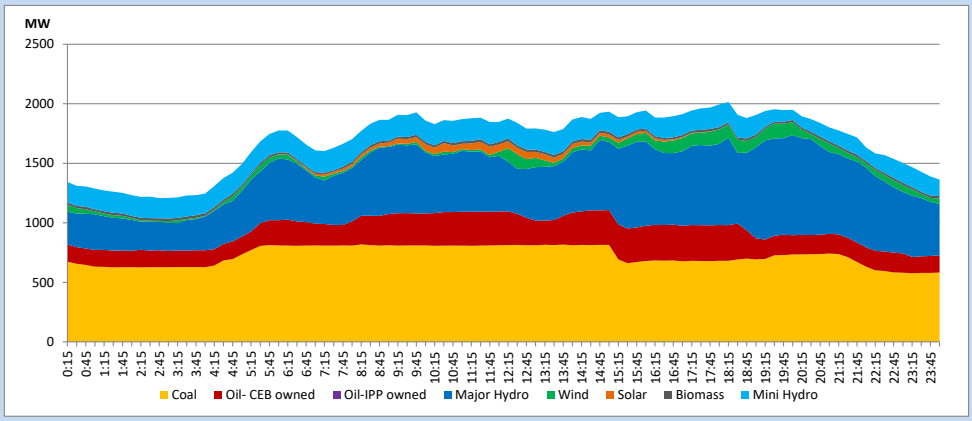


13. Variation of Demand during the current year



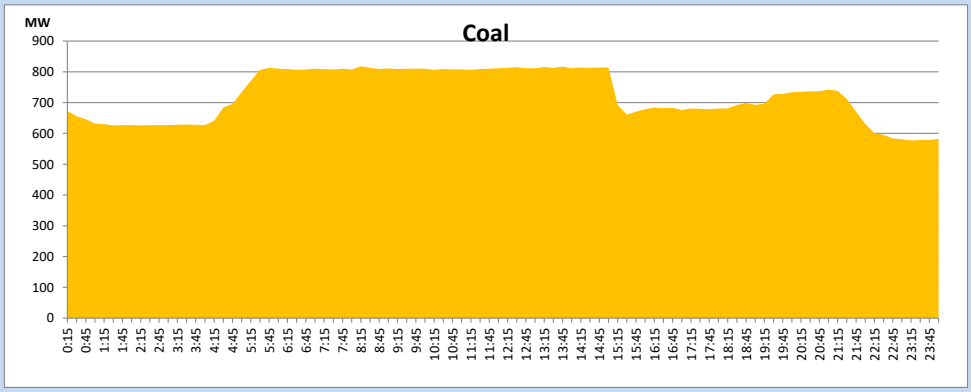
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve May 20, 2024

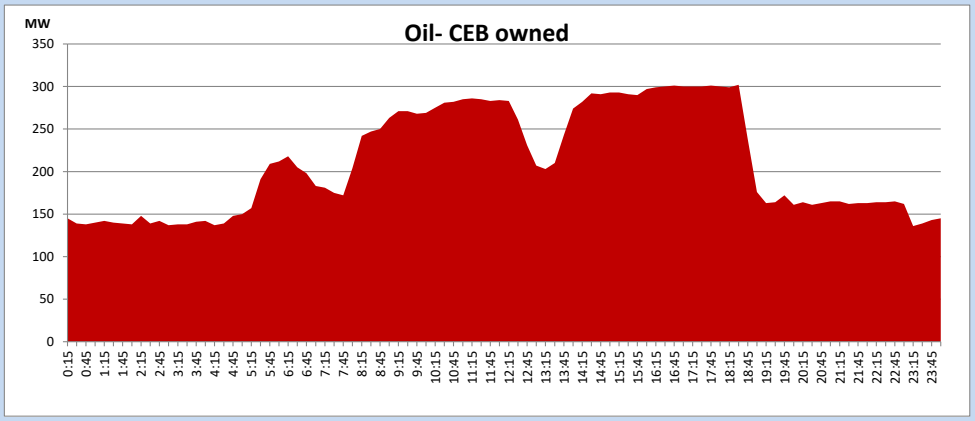


Solar and wind data is based on Telemetered Power Stations only

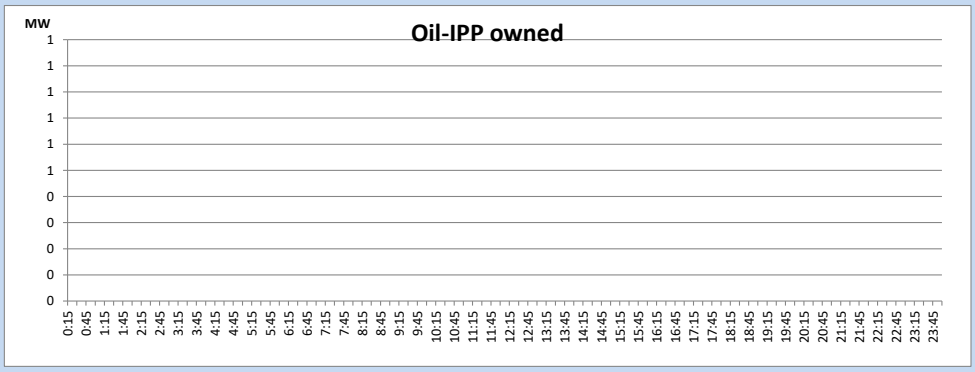
Coal Generation during May 20, 2024



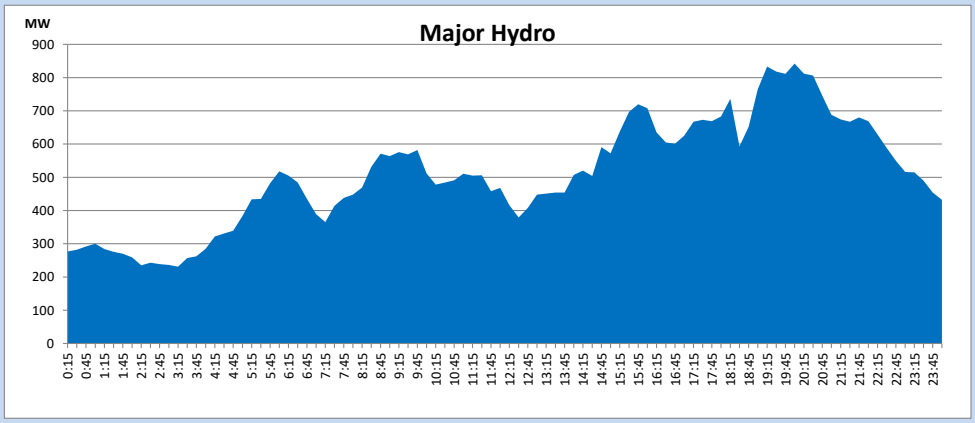
CEB Oil Plant Generation during **May 20, 2024**



IPP Oil Plant Generation during **May 20, 2024**

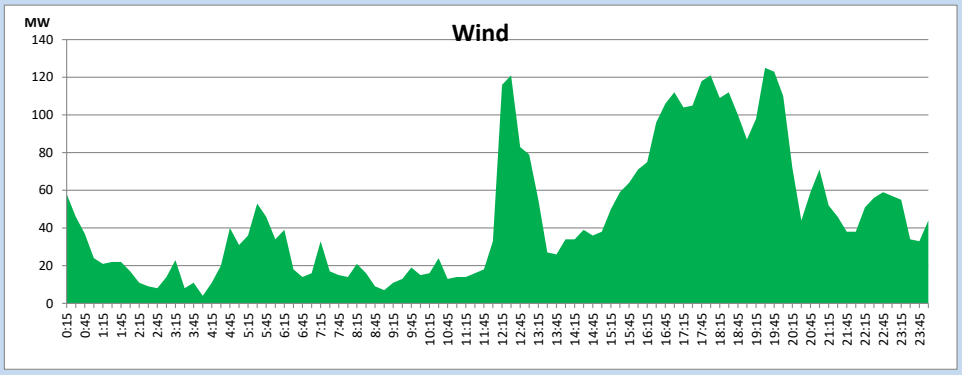


Major Hydro Generation during **May 20, 2024**



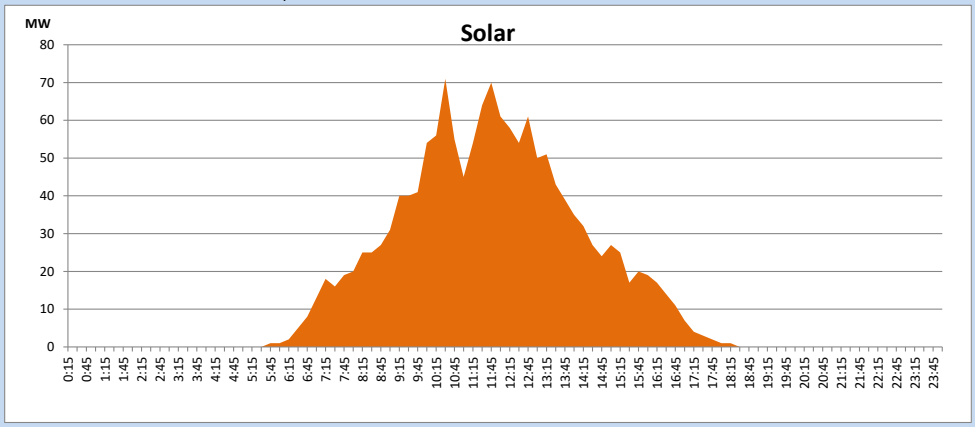
Wind Generation during May 20, 2024

Based on Telemetered Power Stations only

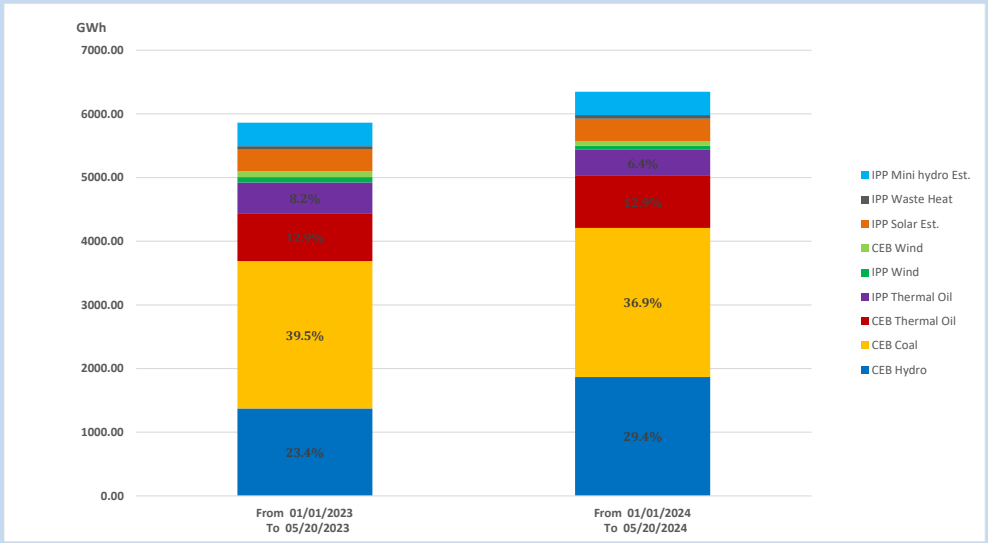


Solar Generation during May 20, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/20/2023 **5863 GWh**

From 01/01/2024 To 05/20/2024 **6349 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
Sobadhanavi	Auto Diesel

Major Incidents reported during the day May 20, 2024

1) Kukule Ganga pond Spilling continues to the present hour.
2) Kalutara 132/33kV T/F 02 tripped from both ends due to the operation of restricted earth fault protection at 08:14hrs, while attempting to energize previously tripped 33kV feeder 04 due to the operation of directional O/C and E/F protection. Kalutara 132/33kV T/F 02 was normalized at 14:36hrs.
3) LVPS Unit 01 de-loaded to 130MW (net) at 15:08hrs due to the tripping of FD - A Fan. The unit is yet to reach full load. LVPS Unit 01 made full load available at 18.15hrs.
4) Laxapana pond spilling started at 15:50hrs and stopped at 18:15hrs.