

Generation and Reservoirs Statistics

May 16, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

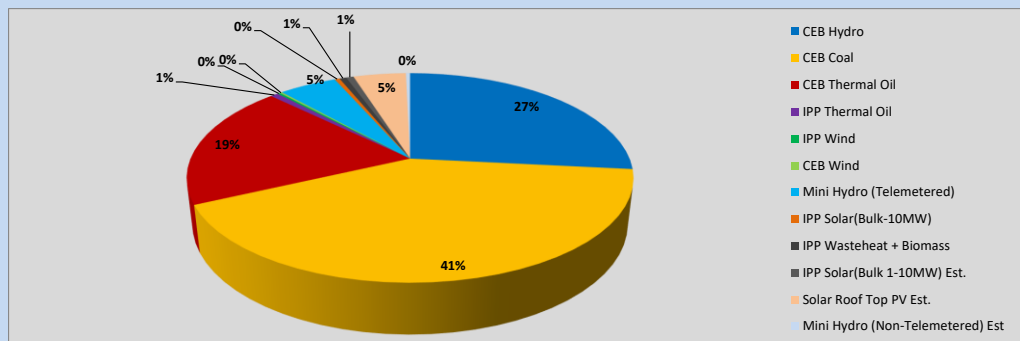


Table 01

	Generation (MWh)
CEB Hydro	12,453
CEB Coal	19,389
CEB Thermal Oil	8,994
IPP Thermal Oil	315
IPP Wind	111
CEB Wind	96
Mini Hydro (Telemetered)	2,341
IPP Solar (Bulk)	202
IPP Waste heat + Biomass	276
Total Generation (Excluding estimated figures)	44,177
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	169
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2130
Total Generation (Including estimated figures)	46,780

* 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	176	23.07%
CEB Coal	310	40.55%
CEB Thermal Oil	171	22.35%
IPP Thermal	0	0.04%
SPP Wind	7	0.85%
CEB Wind	9	1.24%
Mini Hydro *	41	5.34%
IPP Solar *	45	5.82%
IPP Waste heat + BMP	6	0.73%
Total	765	

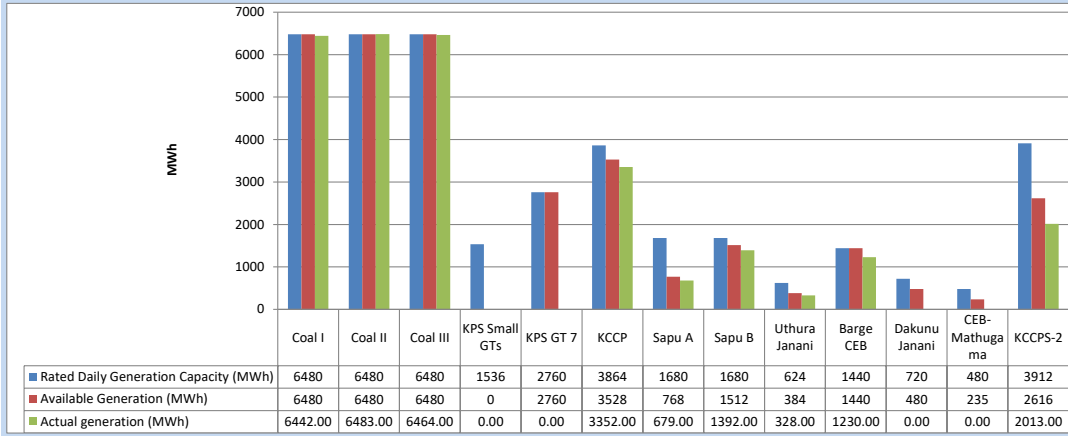
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,818	29.43%
CEB Coal	2,271	36.77%
CEB Thermal Oil	796	12.89%
IPP Thermal	408	6.61%
SPP Wind	64	1.04%
CEB Wind	73	1.18%
Mini Hydro *	352	5.69%
IPP Solar *	341	5.51%
IPP Waste heat	55	0.88%
Total	6,176	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

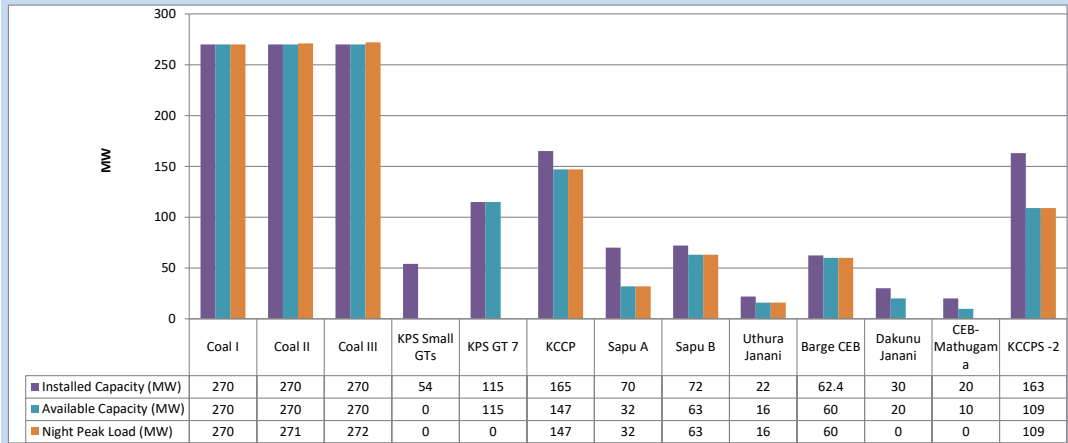
May 16, 2024



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

May 17, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

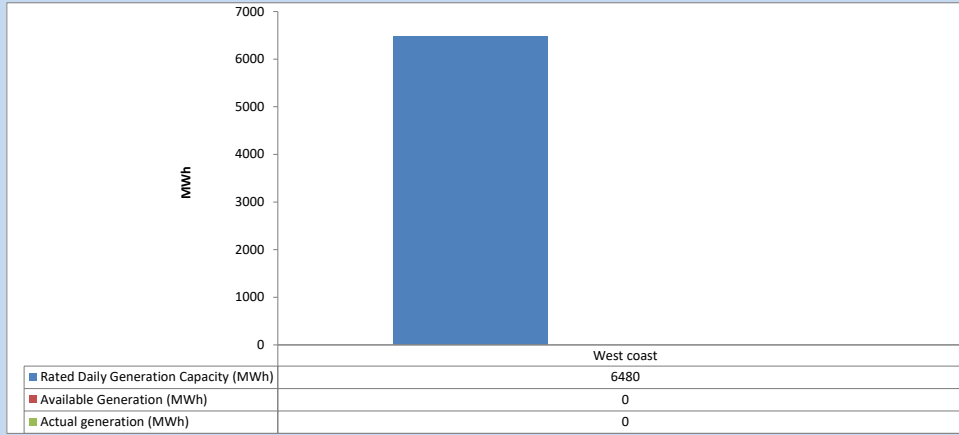


Plant availability is recorded at 6.00 am on

May 17, 2024

5. IPP owned Thermal Plant Dispatch

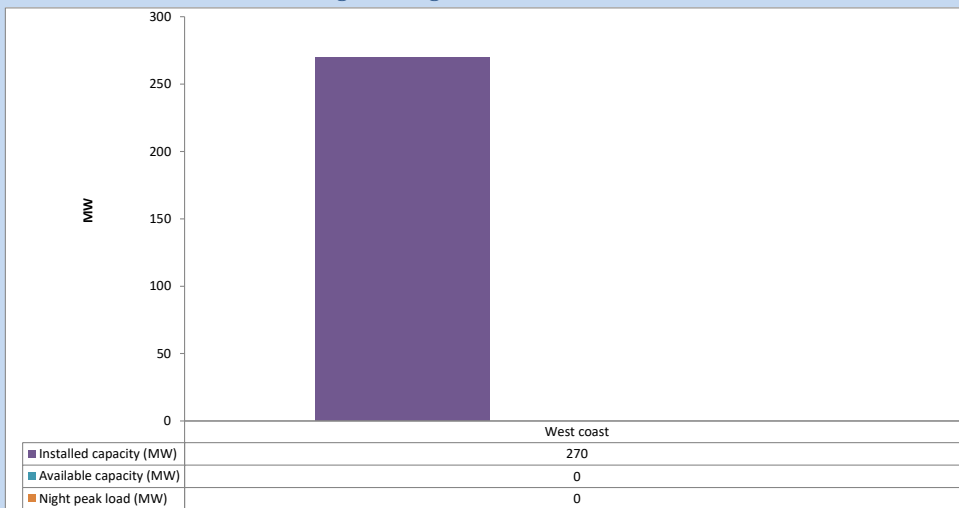
May 16, 2024



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

May 17, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

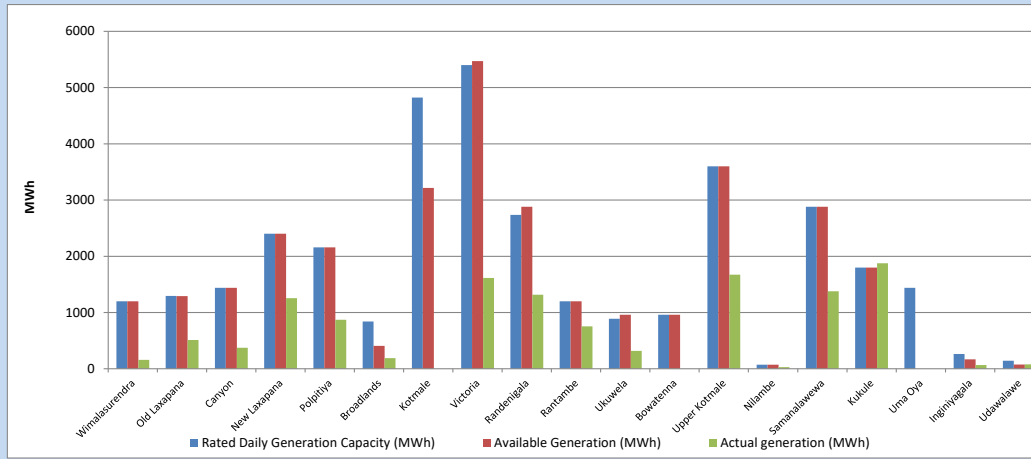


Plant availability is recorded at 6.00 am on

May 17, 2024

7. Major Hydro Plant Dispatch

May 16, 2024

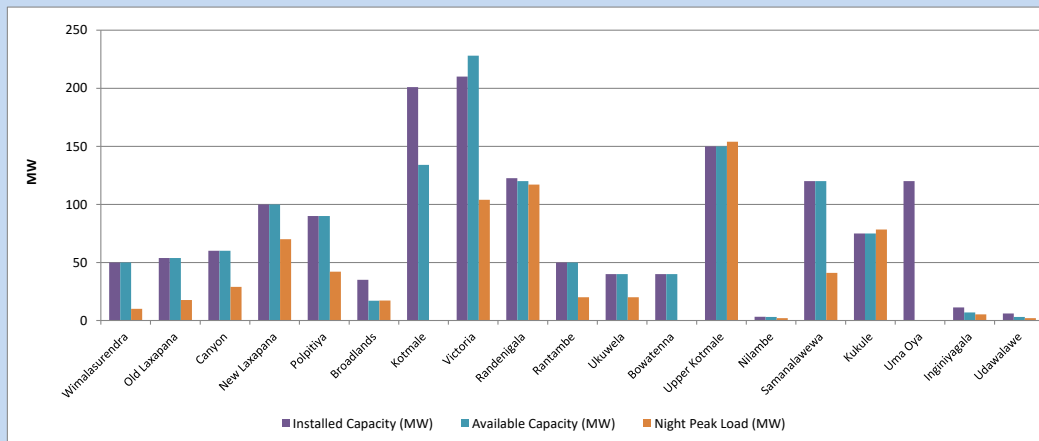


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

May 17, 2024

8. Major Hydro Plant Loading at Night Peak

May 16, 2024



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

May 17, 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	157
Old Laxapana	54	54	18	510
Canyon	60	60	29	372
New Laxapana	100	100	70	1,254
Polpitiya	90	90	42	870
Broadlands	35	17	17	188
Kotmale	201	134	0	0
Victoria	210	228	104	1,615
Randenigala	123	120	117	1,316
Rantambe	50	50	20	754
Ukuwela	40	40	20	319
Bowatenna	40	40	0	0
Upper Kotmale	150	150	154	1,672
Nilambe	3	3	2	29
Samanalawewa	120	120	41	1,379
Kukule	75	75	78	1,875
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	66
Udawalawe	6	3	2	78
Puttalam Coal I	270	270	270	6,442
Puttalam Coal II	270	270	271	6,483
Puttalam Coal III	270	270	272	6,464
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	147	3,352
Sapugaskanda A	70	32	32	679
Sapugaskanda B	72	63	63	1,392
Uthura Janani	22	16	16	328
Barge CEB	62	60	60	1,230
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	10	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	109	109	2,013
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,723	2,008	43,863

Note-

Plant availability is the availability recorded at 6 am on

May 17, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 16, 2024

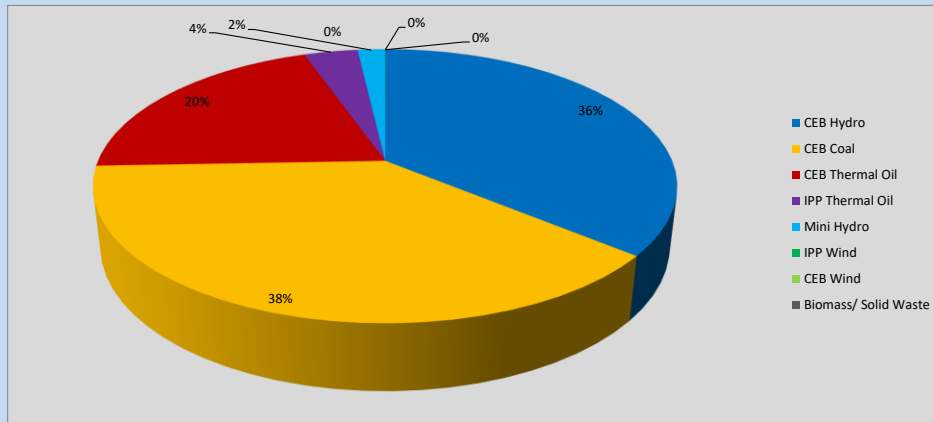


Table 06

CEB Hydro	760	MW
CEB Coal	813	MW
CEB Thermal Oil	427	MW
IPP Thermal Oil	75	MW
Mini Hydro (Telemetered)	38	MW
IPP Wind	0.5	MW
CEB Wind	0	MW
Biomass/ Solid Waste	0	MW

Recorded Peak Demand Data

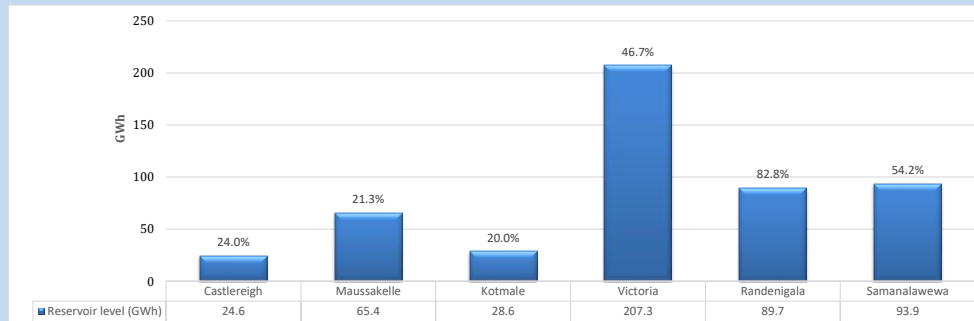
Table 07

Night Peak*	2,113	MW
Day Peak Maximum Demand	2,097	MW
Day Peak Minimum Demand	1,807	MW
Off Peak Minimum Demand	1,471	MW

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

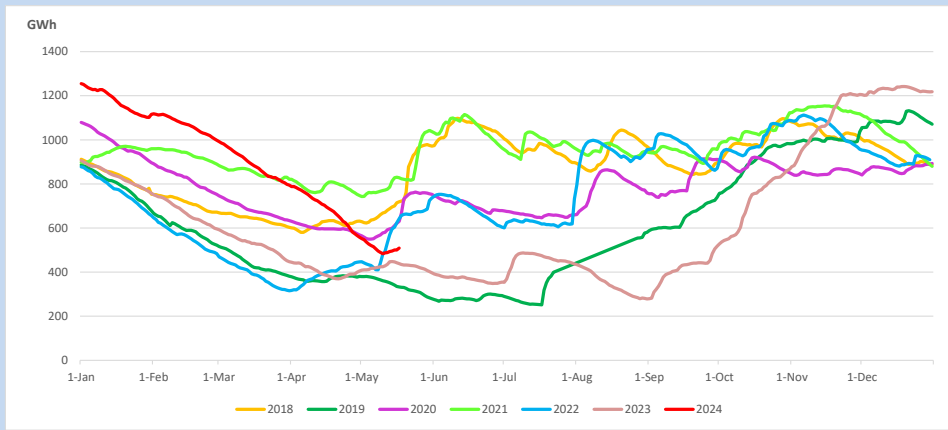
Reservoir Levels -

as at 06.00 Hr on May 17, 2024

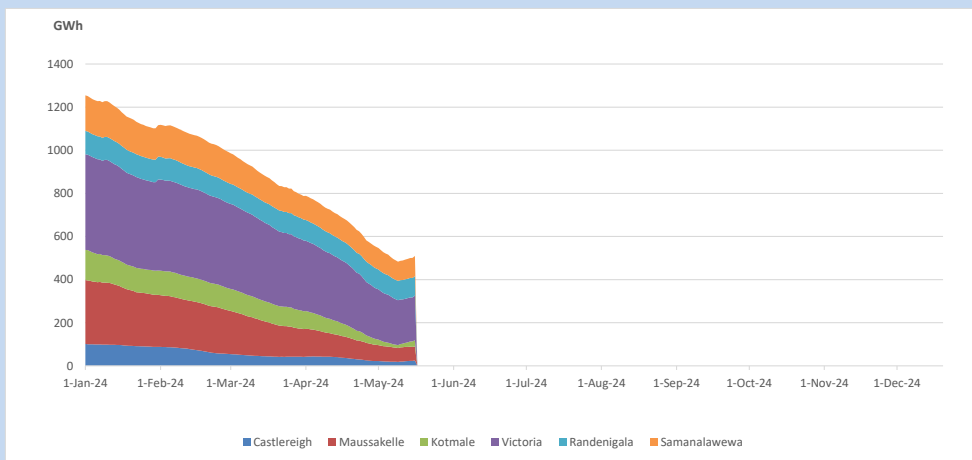


Total Reservoir Level 509.5 GWh
% of Total capacity 39.9%

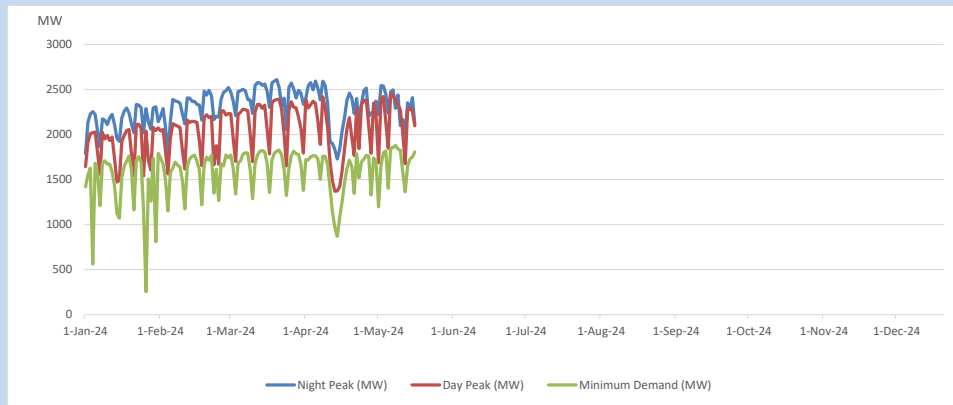
11. Comparison of Total Reservoir Storage Levels with Past Years



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



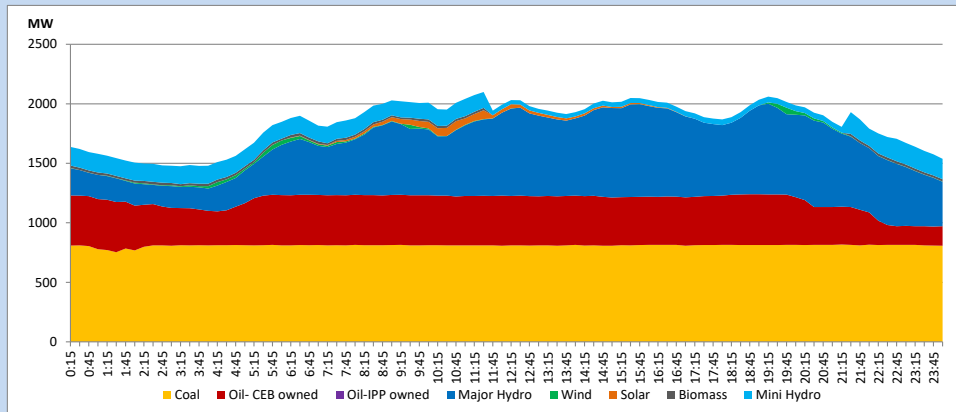
13. Variation of Demand during the current year



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

14. Daily Load Curve

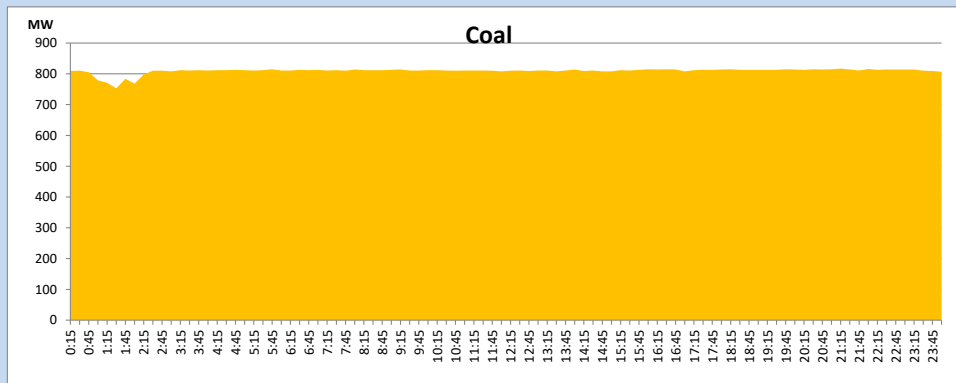
May 16, 2024



Solar and wind data is based on Telemetered Power Stations only

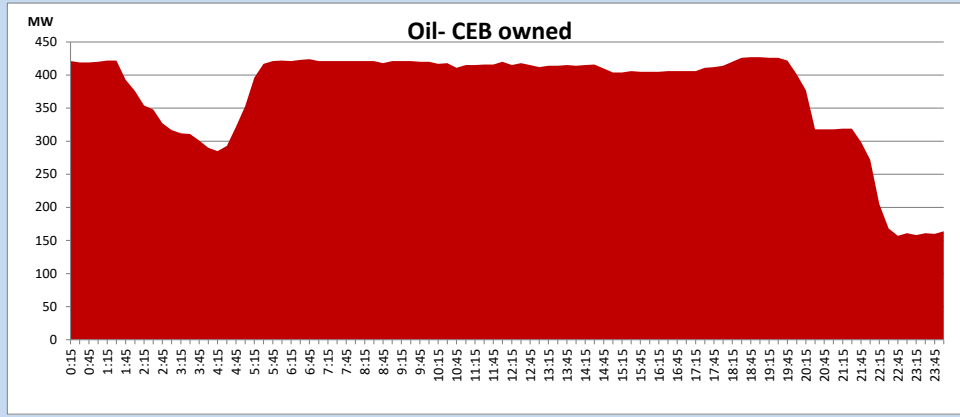
Coal Generation during

May 16, 2024



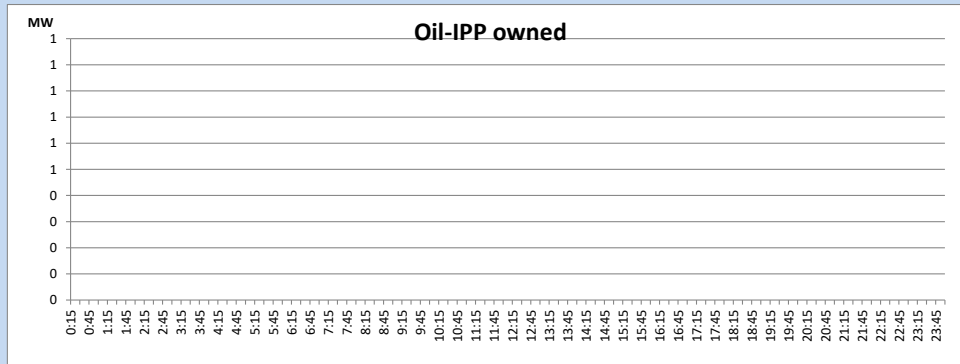
CEB Oil Plant Generation during

May 16, 2024



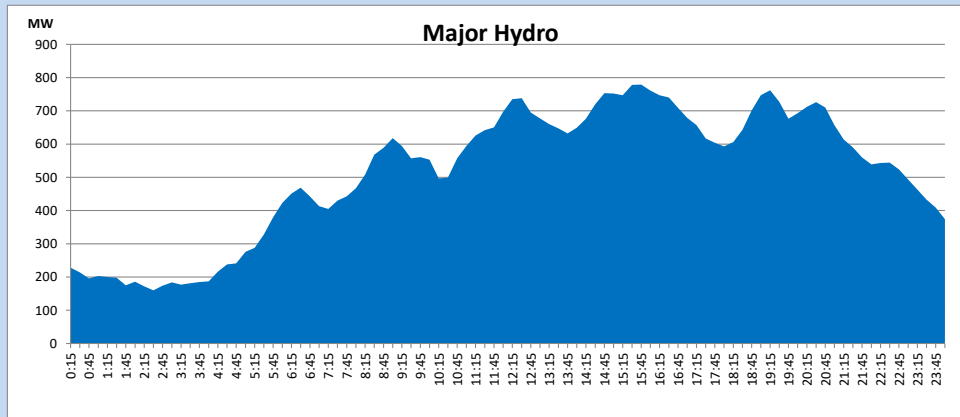
IPP Oil Plant Generation during

May 16, 2024



Major Hydro Generation during

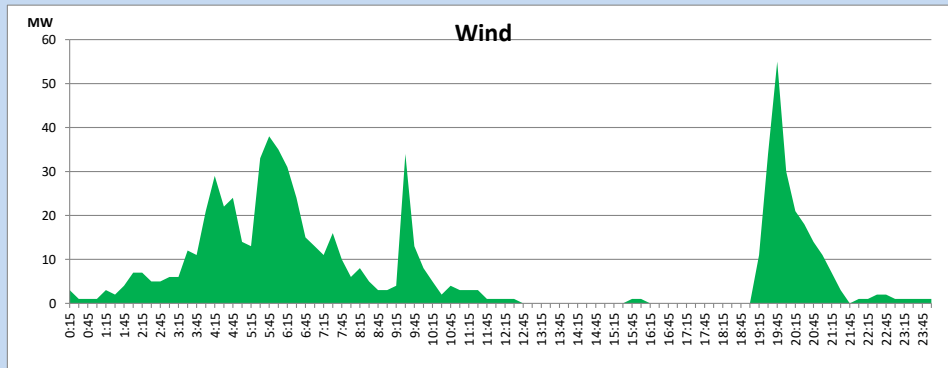
May 16, 2024



Wind Generation during

May 16, 2024

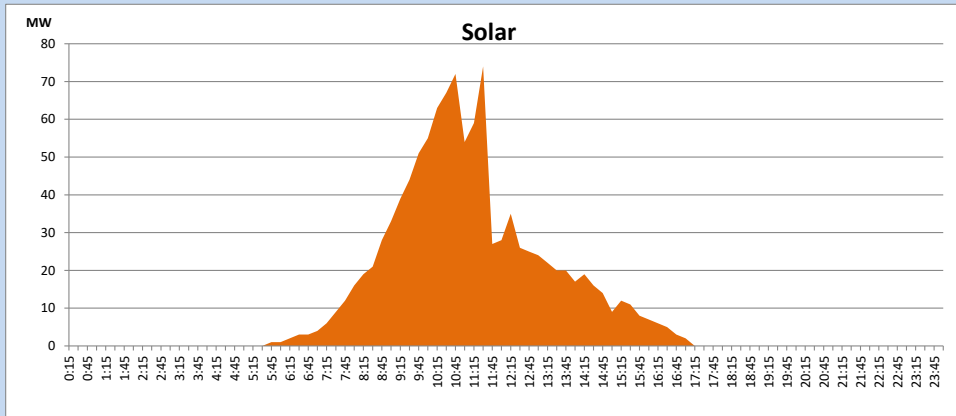
Based on Telemetered Power Stations only



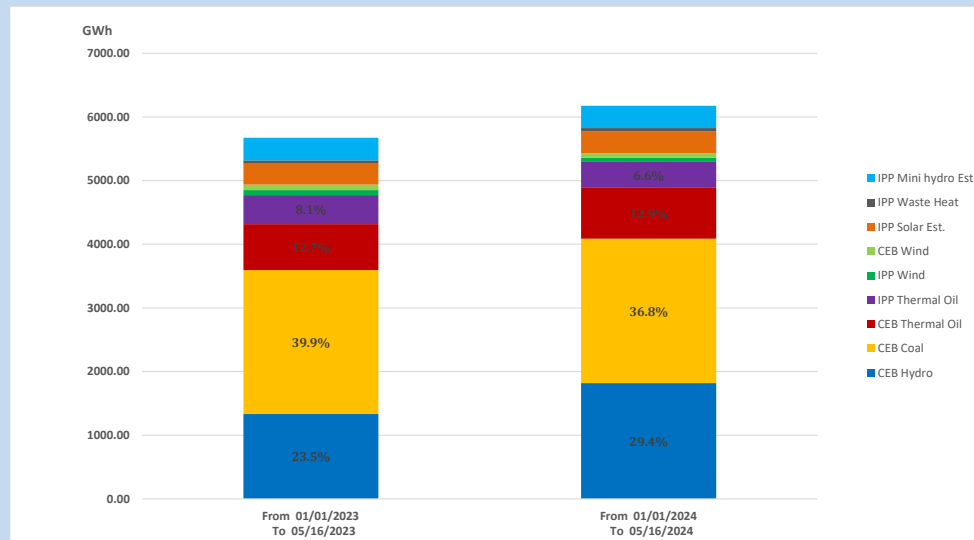
Solar Generation during

May 16, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 05/16/2023
 From 01/01/2024 To 05/16/2024

5673 GWh
 6176 GWh

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

May 16, 2024

1) Nil.