

Generation and Reservoirs Statistics

July 11, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

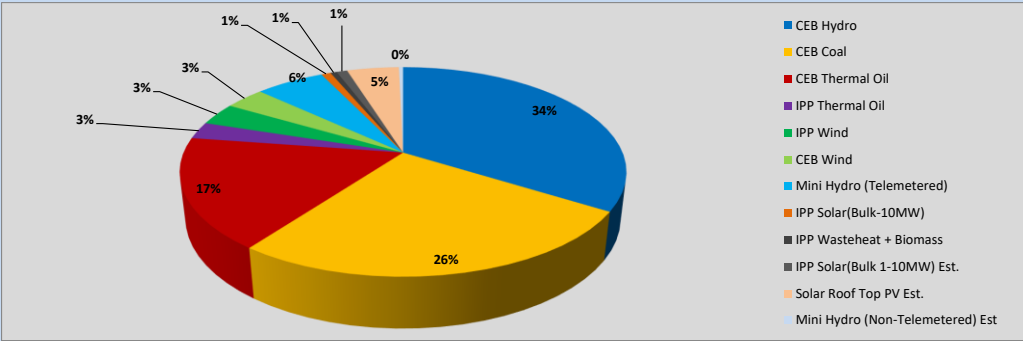


Table 01

	Generation (MWh)
CEB Hydro	16,313
CEB Coal	12,682
CEB Thermal Oil	8,279
IPP Thermal Oil	1,267
IPP Wind	1,664
CEB Wind	1,662
Mini Hydro (Telemetered)	2,874
IPP Solar (Bulk)	398
IPP Waste heat + Biomass	265
Total Generation (Excluding estimated figures)	45,404
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	173
* Estimated IPP Solar PV (Bulk 1-10MW)	446
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	48,193

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1533
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	490
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	326
Rooftop Solar (LT Bulk)	285
Rooftop Solar (HT Bulk)	79

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	177	34.67%
CEB Coal	153	29.91%
CEB Thermal Oil	48	9.48%
IPP Thermal	16	3.15%
SPP Wind	19	3.77%
CEB Wind	21	4.04%
Mini Hydro *	40	7.91%
IPP Solar *	32	6.29%
IPP Waste heat + BMP	4	0.78%
Total	511	

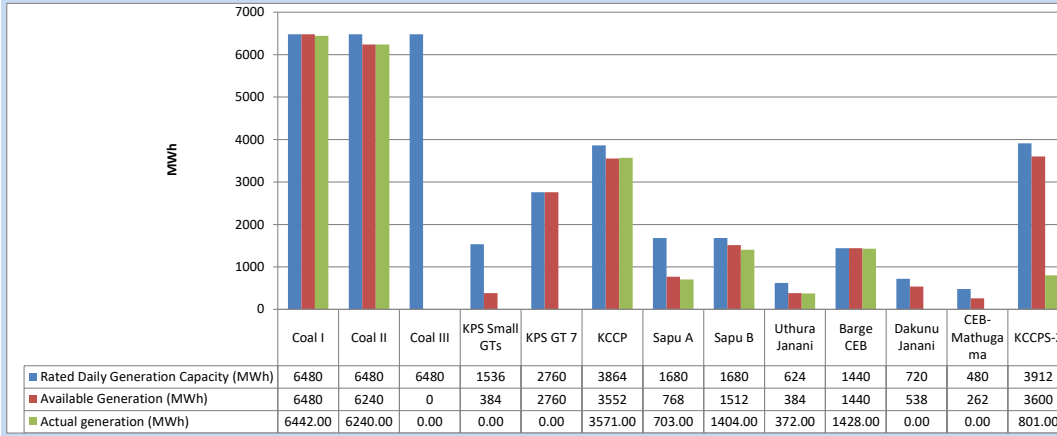
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,685	30.81%
CEB Coal	3,157	36.23%
CEB Thermal Oil	865	9.93%
IPP Thermal	450	5.16%
SPP Wind	171	1.97%
CEB Wind	177	2.03%
Mini Hydro *	589	6.76%
IPP Solar *	539	6.18%
IPP Waste heat	81	0.93%
Total	8,714	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

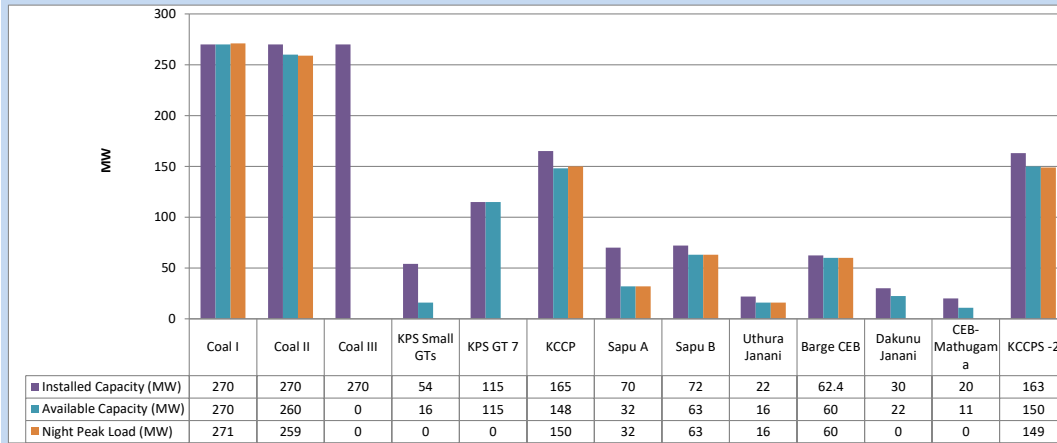
July 11, 2024



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

July 12, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

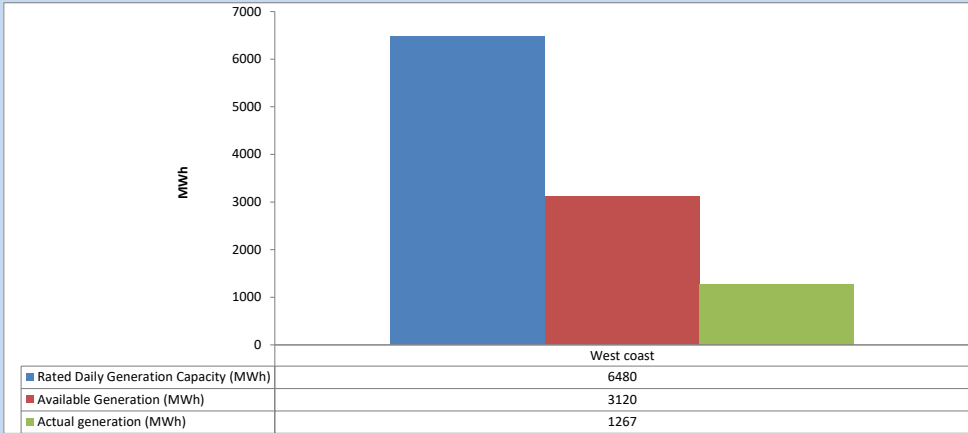


Plant availability is recorded at 6.00 am on

July 12, 2024

5. IPP owned Thermal Plant Dispatch

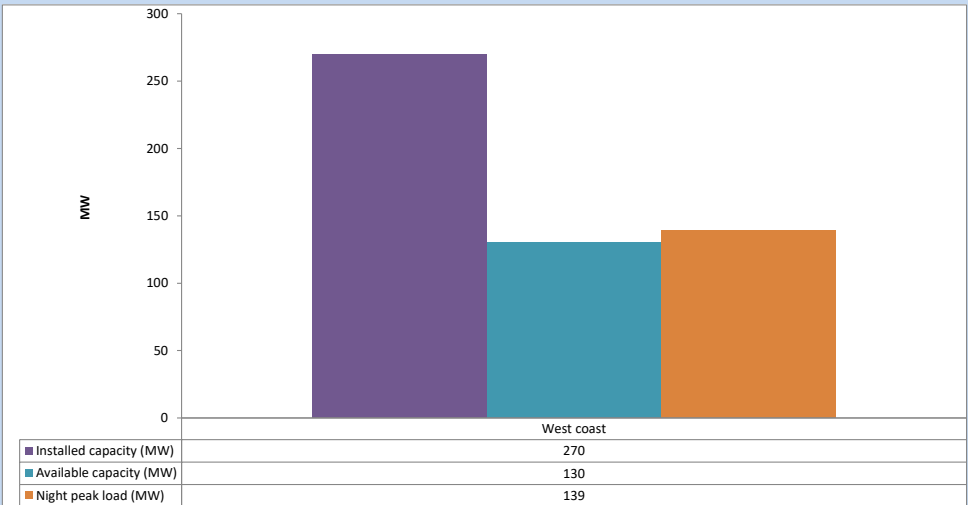
July 11, 2024



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

July 12, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

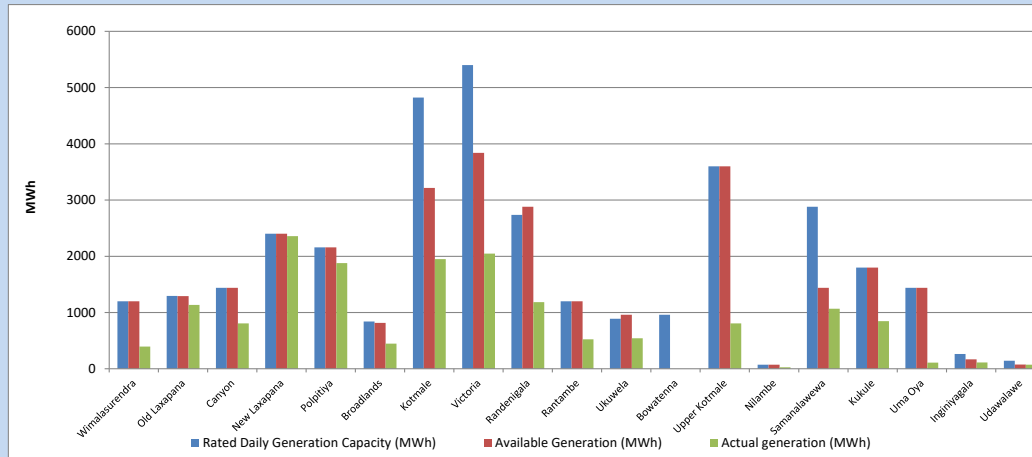


Plant availability is recorded at 6.00 am on

July 12, 2024

7. Major Hydro Plant Dispatch

July 11, 2024

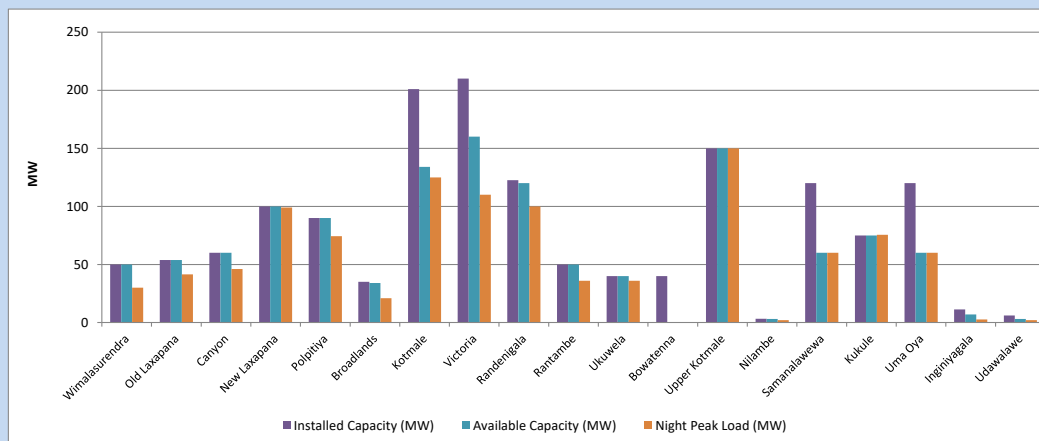


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 12, 2024

8. Major Hydro Plant Loading at Night Peak

July 11, 2024



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

July 12, 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	30	394
Old Laxapana	54	54	41	1,136
Canyon	60	60	46	805
New Laxapana	100	100	99	2,358
Polpitiya	90	90	74	1,880
Broadlands	35	34	21	447
Kotmale	201	134	125	1,950
Victoria	210	160	110	2,049
Randenigala	123	120	100	1,185
Rantambe	50	50	36	525
Ukuwela	40	40	36	543
Bowatenna	40	0	0	0
Upper Kotmale	150	150	150	805
Nilambe	3	3	2	27
Samanalawewa	120	60	60	1,069
Kukule	75	75	76	846
Uma Oya (Testing)	120	60	60	110
Inginiyagala	11	7	3	111
Udawalawe	6	3	2	73
Puttalam Coal I	270	270	271	6,442
Puttalam Coal II	270	260	259	6,240
Puttalam Coal III	270	0	0	0
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	150	3,571
Sapugaskanda A	70	32	32	703
Sapugaskanda B	72	63	63	1,404
Uthura Janani	22	16	16	372
Barge CEB	62	60	60	1,428
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	11	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	149	801
West Coast	270	130	139	1,267
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,543	2,480	45,404

Note-

Plant availability is the availability recorded at 6 am on

July 12, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

July 11, 2024

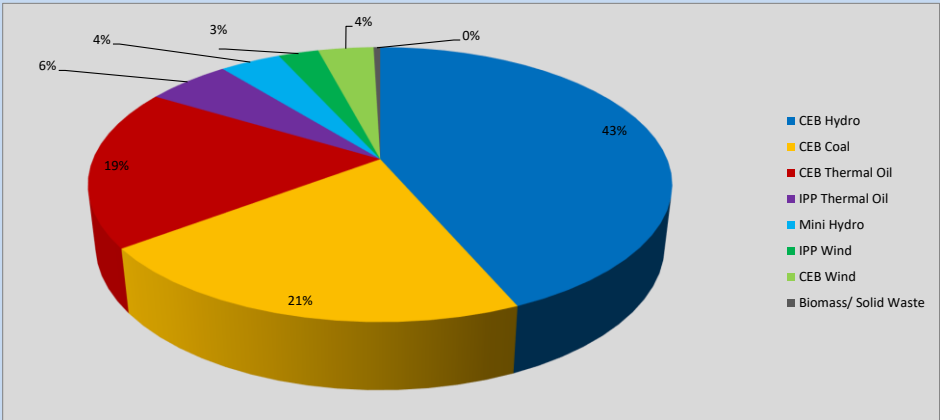


Table 06

CEB Hydro	1085	MW
CEB Coal	530	MW
CEB Thermal Oil	470	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	101	MW
IPP Wind	66.6	MW
CEB Wind	91.6	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

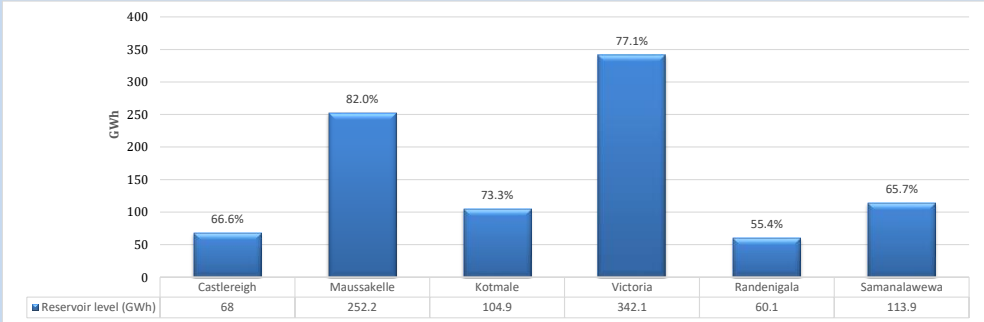
Table 07

Night Peak*	2,494	MW
Day Peak Maximum Demand	2,228	MW
Day Peak Minimum Demand	1,724	MW
Off Peak Minimum Demand	1,487	MW

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

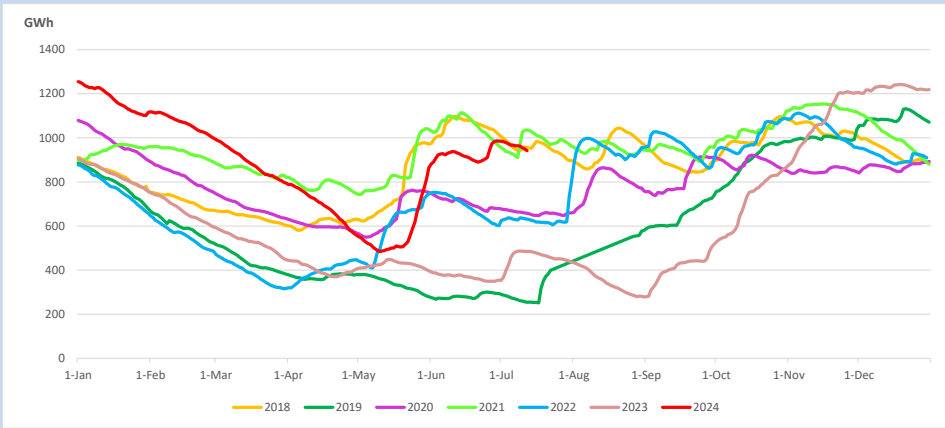
Reservoir Levels -

as at 06.00 Hr on July 12, 2024

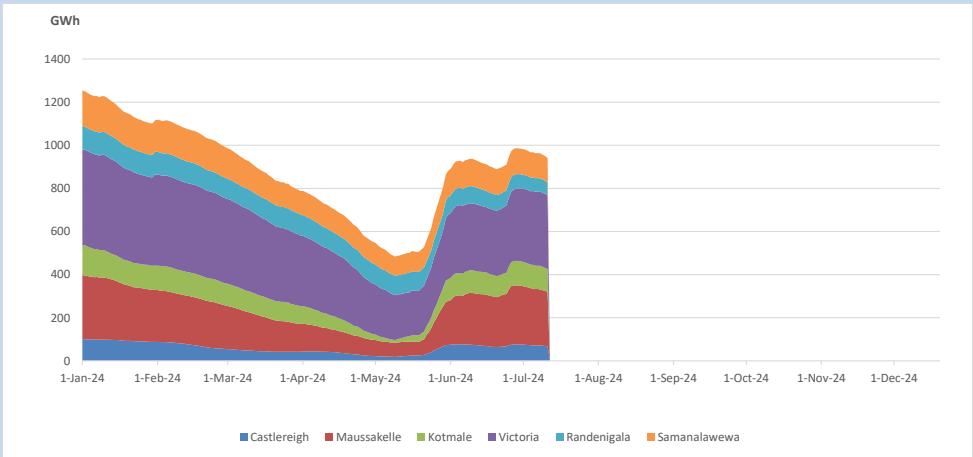


Total Reservoir Level 941.2 GWh
% of Total capacity 73.6%

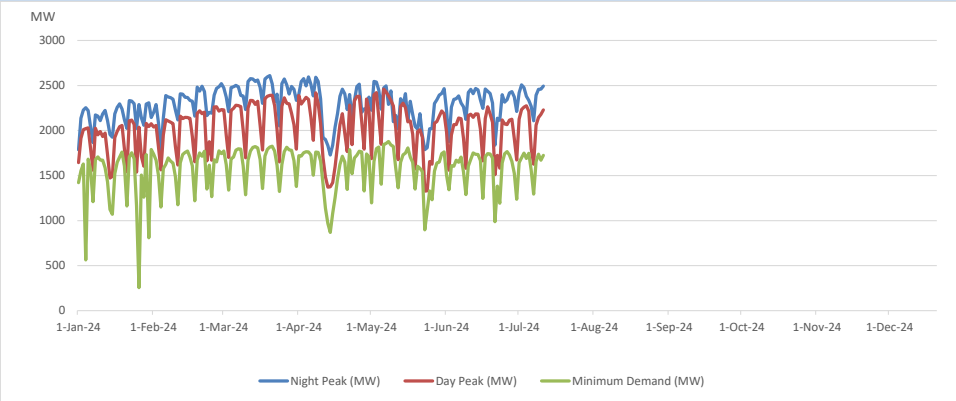
11. Comparison of Total Reservoir Storage Levels with Past Years



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

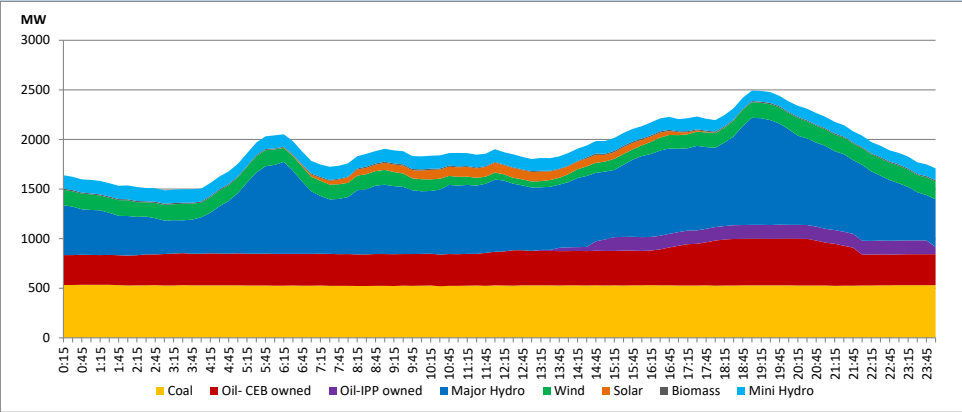


13. Variation of Demand during the current year



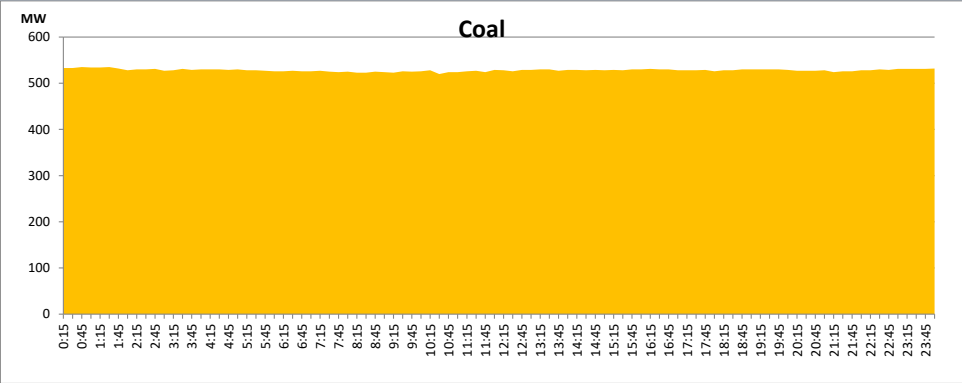
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve July 11, 2024



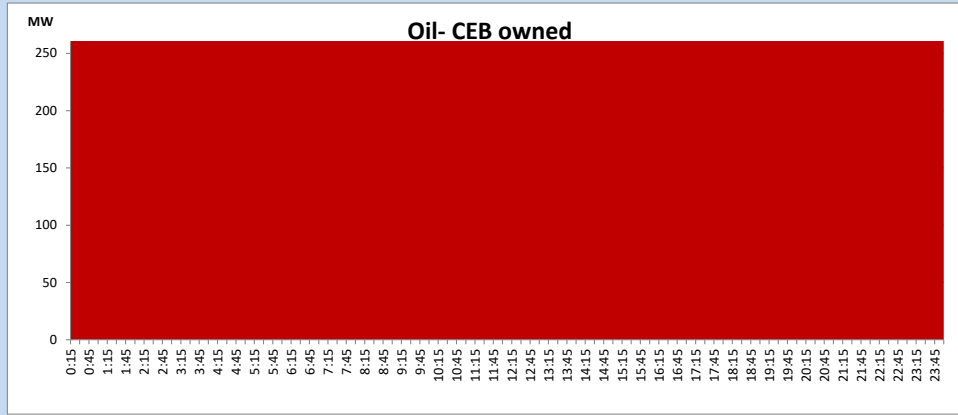
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during July 11, 2024



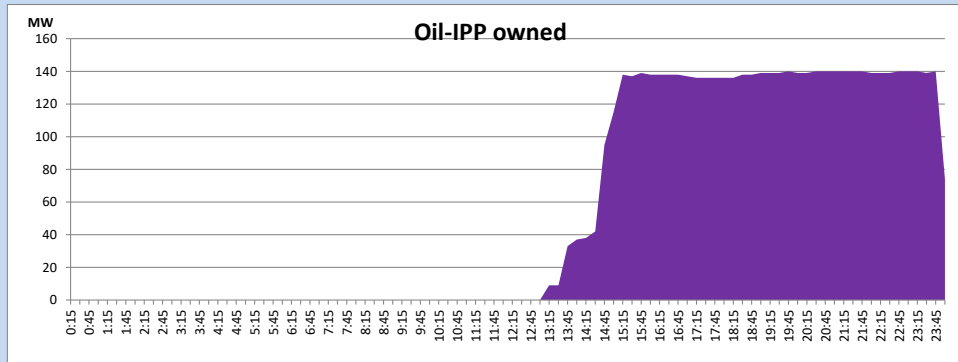
CEB Oil Plant Generation during

July 11, 2024



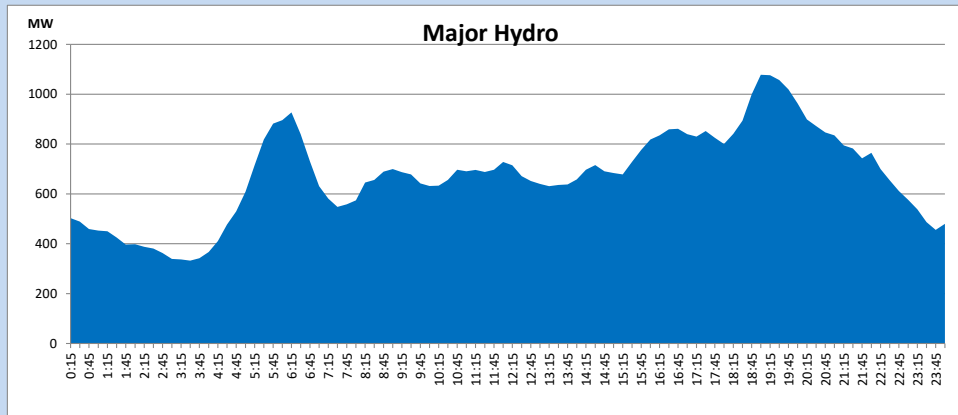
IPP Oil Plant Generation during

July 11, 2024



Major Hydro Generation during

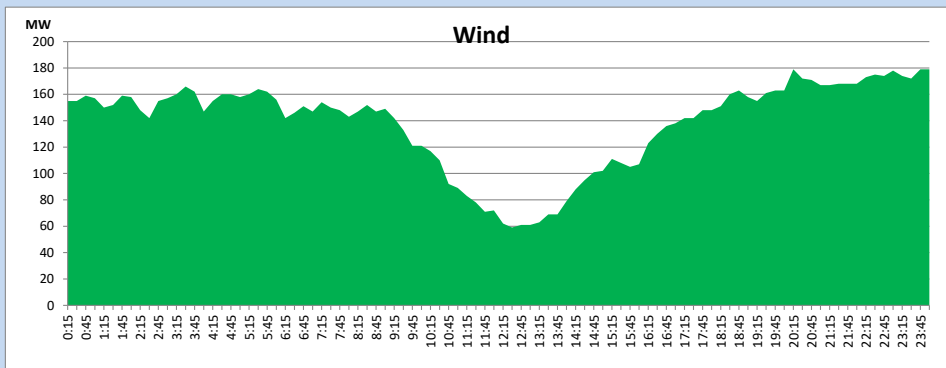
July 11, 2024



Wind Generation during

July 11, 2024

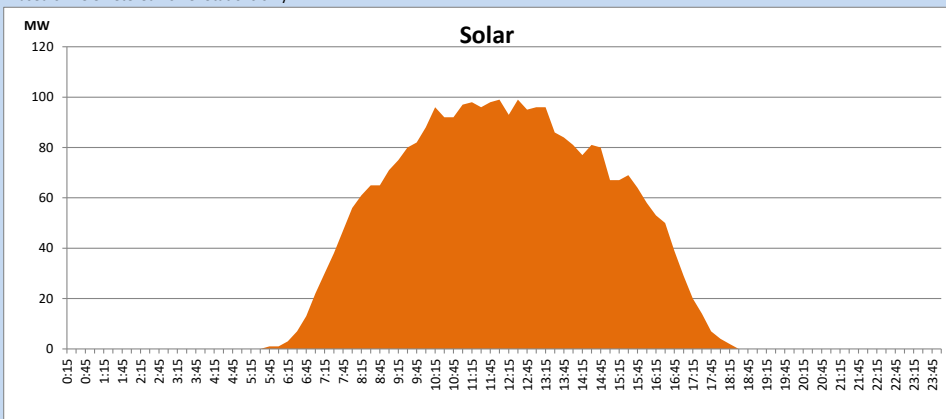
Based on Telemetered Power Stations only



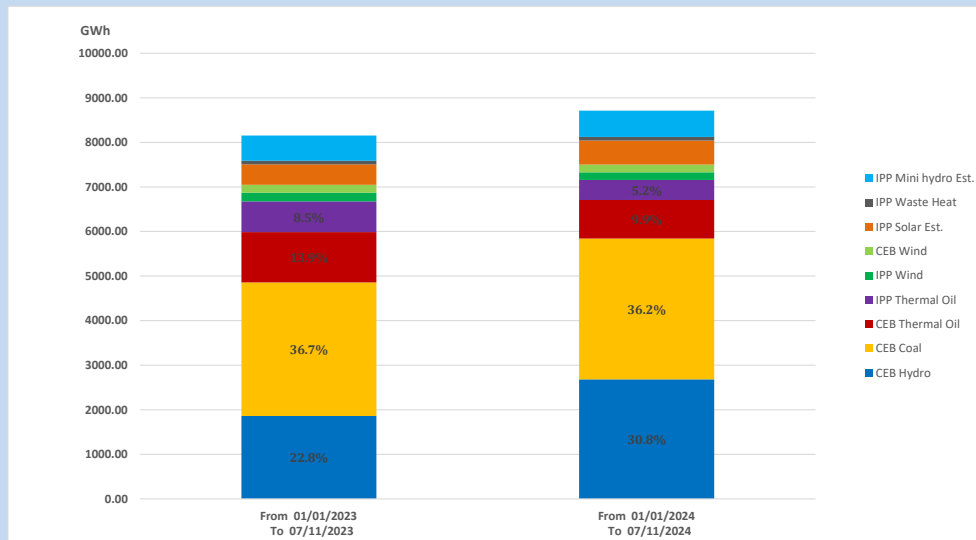
Solar Generation during

July 11, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/11/2023

8154 GWh

From 01/01/2024 To 07/11/2024

8714 GWh

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

Unservd 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

July 11, 2024

1) Nil