

Generation and Reservoirs Statistics

June 13, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

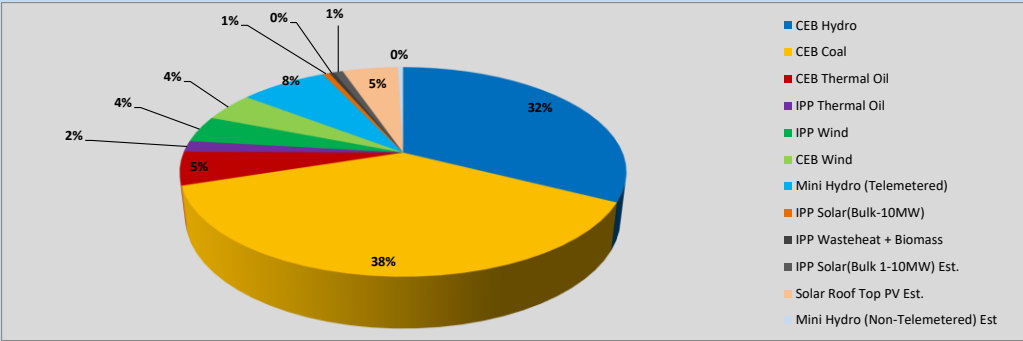


Table 01

	Generation (MWh)
CEB Hydro	15,686
CEB Coal	18,150
CEB Thermal Oil	2,472
IPP Thermal Oil	828
IPP Wind	1,987
CEB Wind	2,157
Mini Hydro (Telemetered)	3,647
IPP Solar (Bulk)	289
IPP Waste heat + Biomass	192
Total Generation (Excluding estimated figures)	45,408
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	220
* Estimated IPP Solar PV (Bulk 1-10MW)	380
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	48,328

* 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	215	36.81%
CEB Coal	192	32.88%
CEB Thermal Oil	18	3.11%
IPP Thermal	9	1.52%
SPP Wind	23	3.85%
CEB Wind	26	4.43%
Mini Hydro *	60	10.27%
IPP Solar *	38	6.53%
IPP Waste heat + BMP	4	0.61%
Total	585	

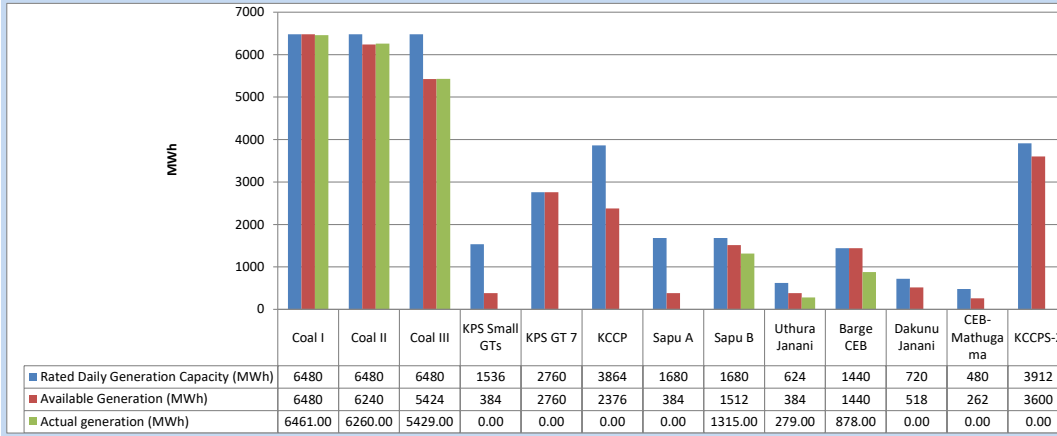
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,255	30.31%
CEB Coal	2,728	36.68%
CEB Thermal Oil	797	10.71%
IPP Thermal	426	5.73%
SPP Wind	113	1.52%
CEB Wind	120	1.61%
Mini Hydro *	492	6.61%
IPP Solar *	439	5.91%
IPP Waste heat	68	0.91%
Total	7,438	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

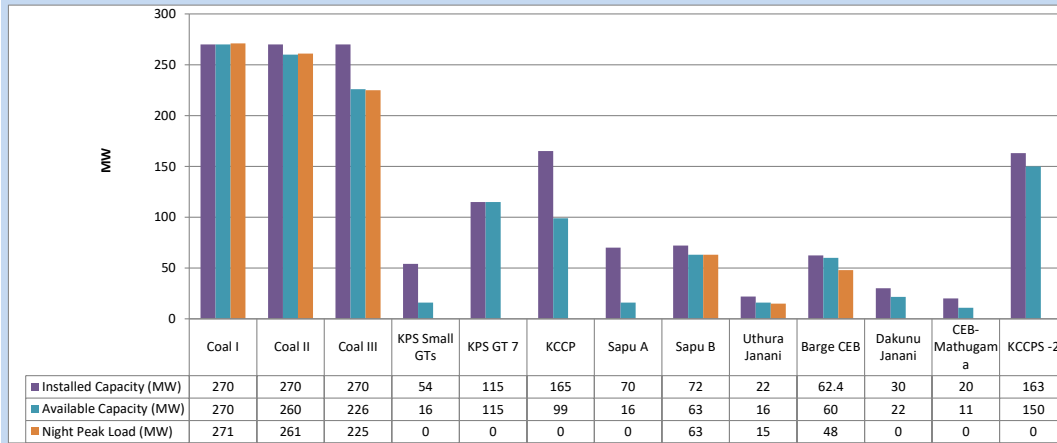
June 13, 2024



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

June 14, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

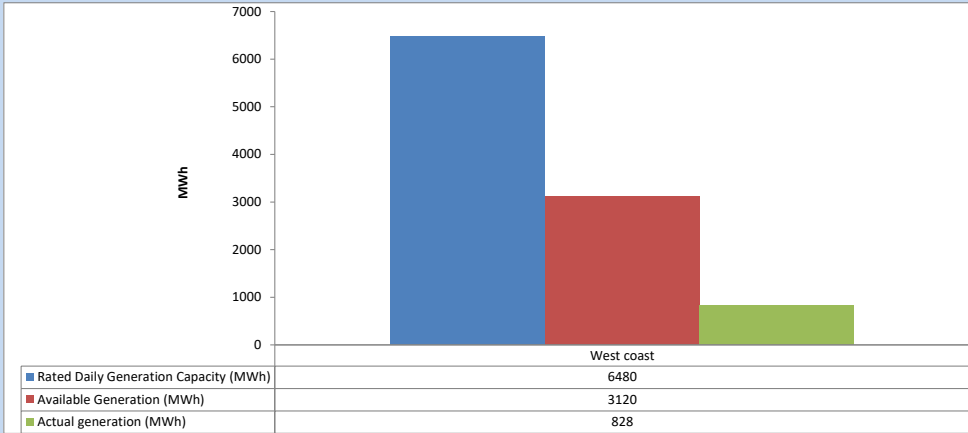


Plant availability is recorded at 6.00 am on

June 14, 2024

5. IPP owned Thermal Plant Dispatch

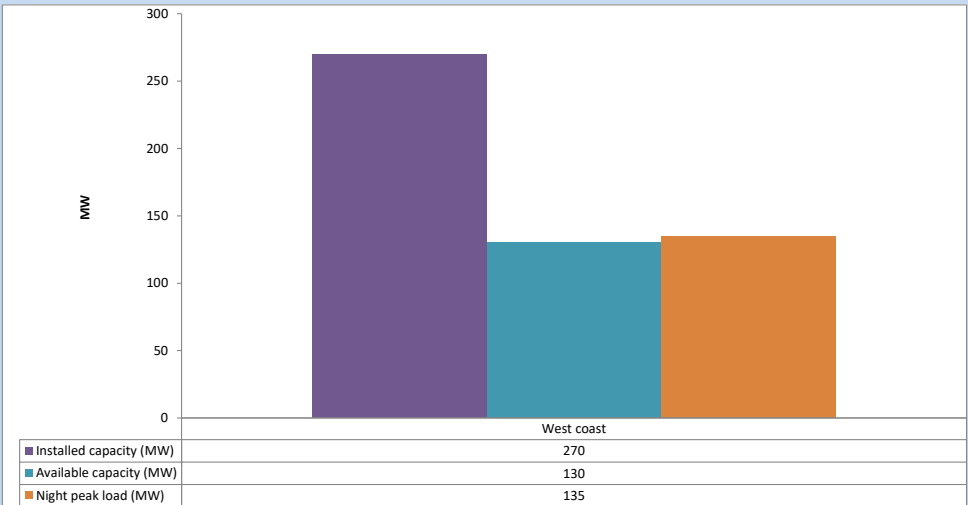
June 13, 2024



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

June 14, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

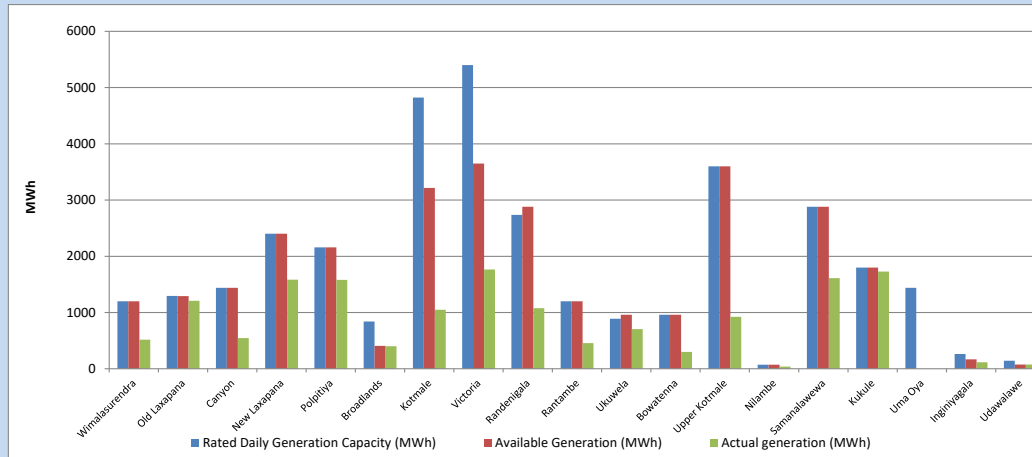


Plant availability is recorded at 6.00 am on

June 14, 2024

7. Major Hydro Plant Dispatch

June 13, 2024

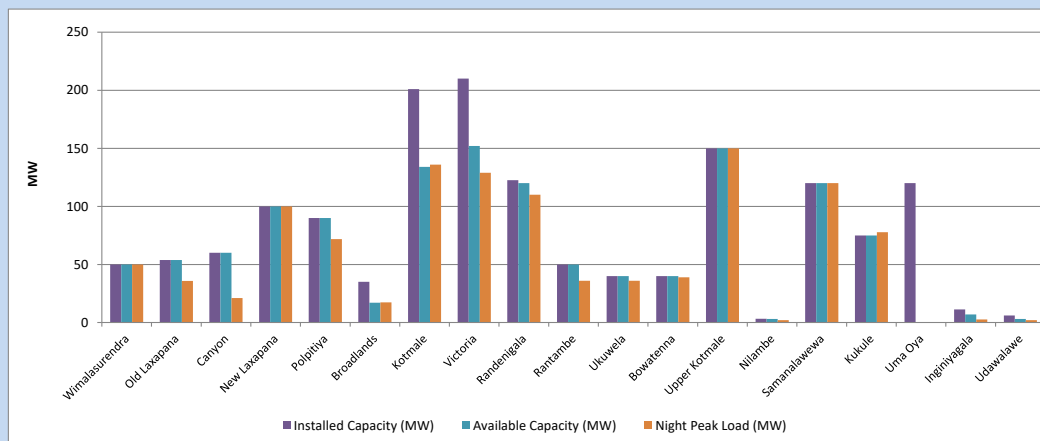


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 14, 2024

8. Major Hydro Plant Loading at Night Peak

June 13, 2024



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

June 14, 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	50	519
Old Laxapana	54	54	36	1,208
Canyon	60	60	21	546
New Laxapana	100	100	100	1,583
Polpitiya	90	90	72	1,580
Broadlands	35	17	17	401
Kotmale	201	134	136	1,050
Victoria	210	152	129	1,766
Randenigala	123	120	110	1,077
Rantambe	50	50	36	456
Ukuwela	40	40	36	705
Bowatenna	40	40	39	300
Upper Kotmale	150	150	150	924
Nilambe	3	3	2	39
Samanalawewa	120	120	120	1,613
Kukule	75	75	78	1,729
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	116
Udawalawe	6	3	2	74
Puttalam Coal I	270	270	271	6,461
Puttalam Coal II	270	260	261	6,260
Puttalam Coal III	270	226	225	5,429
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	99	0	0
Sapugaskanda A	70	16	0	0
Sapugaskanda B	72	63	63	1,315
Uthura Janani	22	16	15	279
Barge CEB	62	60	48	878
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	0	0
West Coast	270	130	135	828
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,718	2,462	45,408

Note-

Plant availability is the availability recorded at 6 am on

June 14, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

June 13, 2024

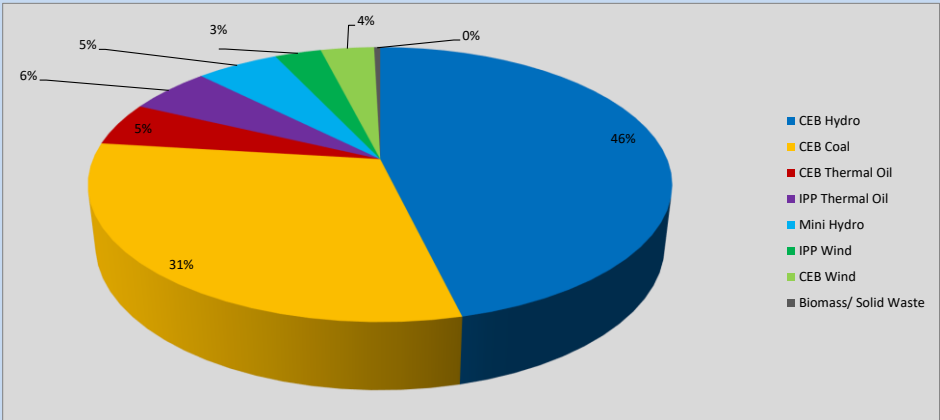


Table 06

CEB Hydro	1140	MW
CEB Coal	757	MW
CEB Thermal Oil	126	MW
IPP Thermal Oil	135	MW
Mini Hydro (Telemetered)	135	MW
IPP Wind	76	MW
CEB Wind	87.2	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

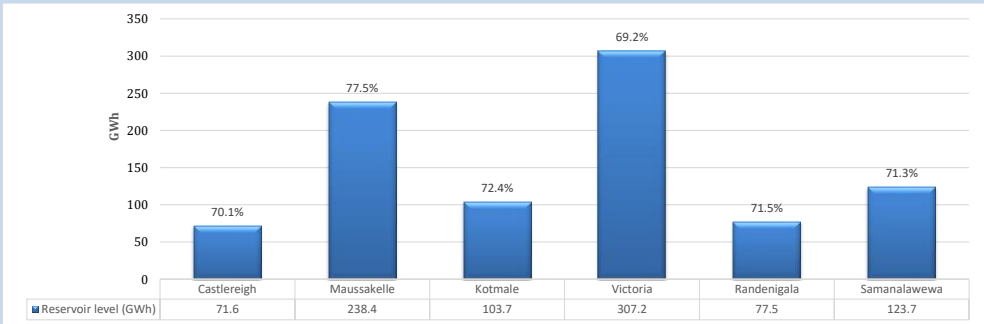
Table 07

Night Peak*	2,466	MW
Day Peak Maximum Demand	2,185	MW
Day Peak Minimum Demand	1,736	MW
Off Peak Minimum Demand	1,456	MW

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

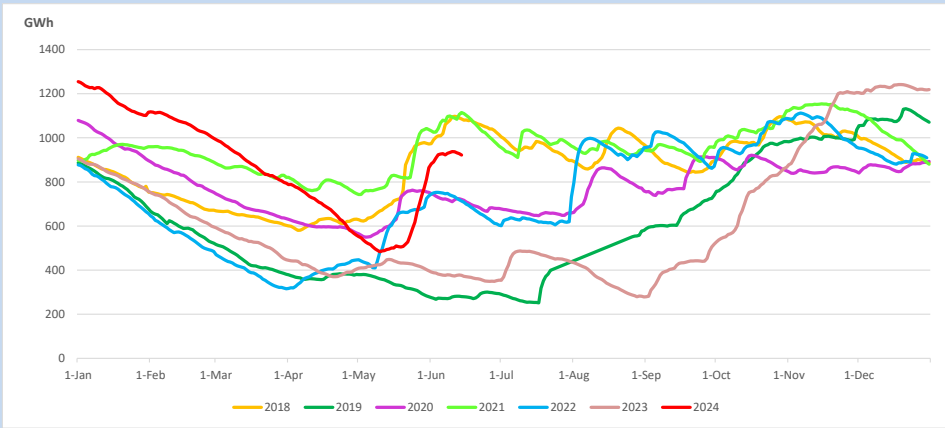
Reservoir Levels -

as at 06.00 Hr on June 14, 2024

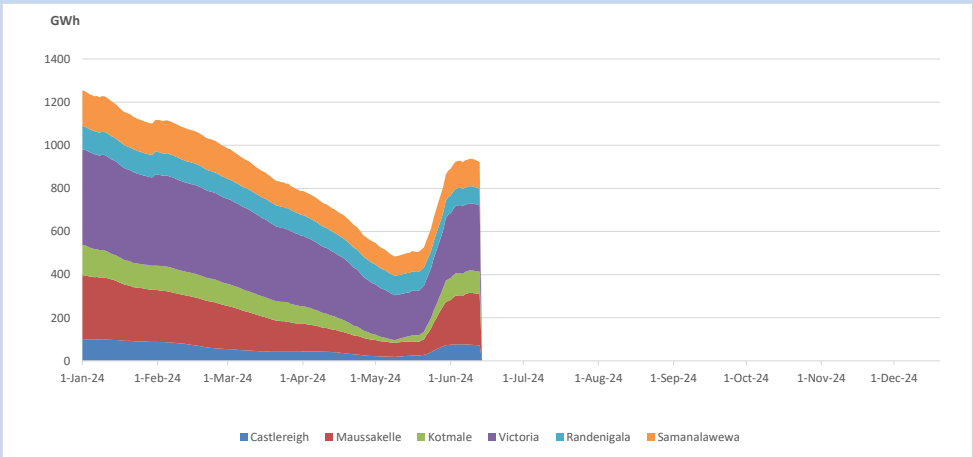


Total Reservoir Level 922.1 GWh
% of Total capacity 72.1%

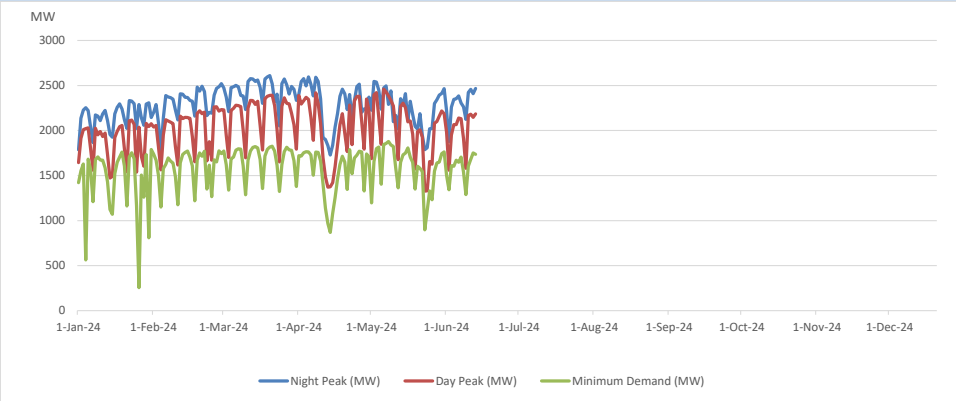
11. Comparison of Total Reservoir Storage Levels with Past Years



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

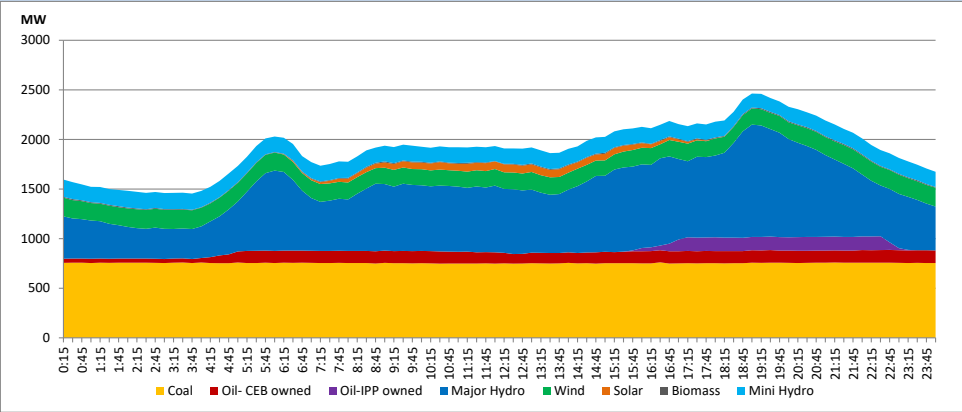


13. Variation of Demand during the current year



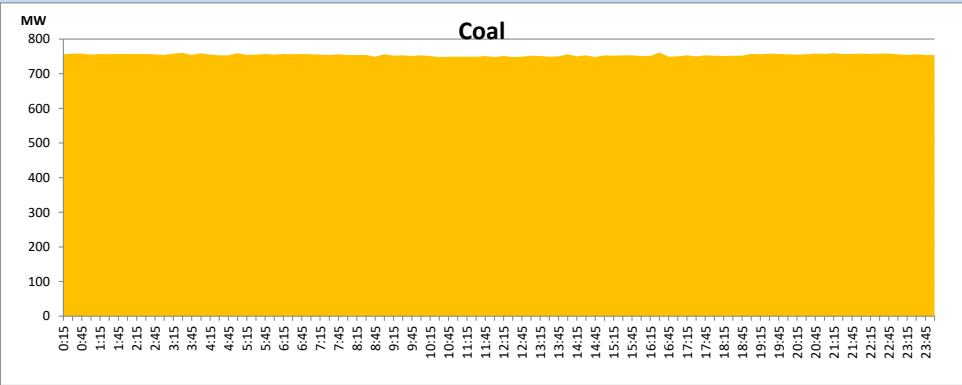
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve June 13, 2024



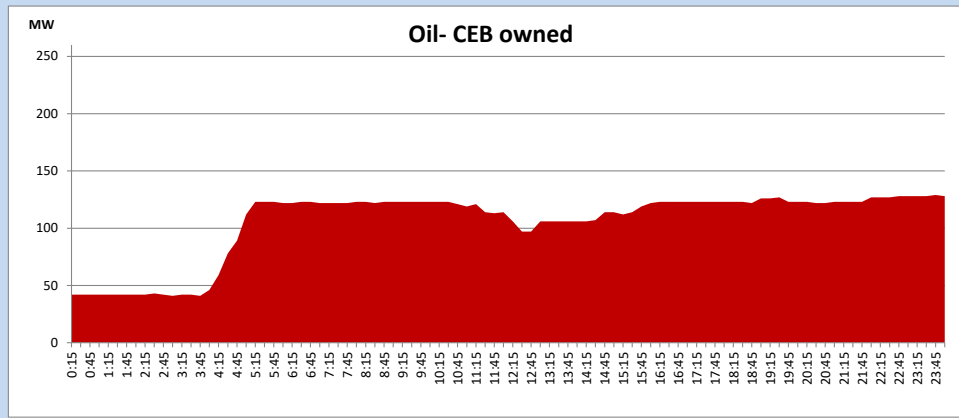
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during June 13, 2024



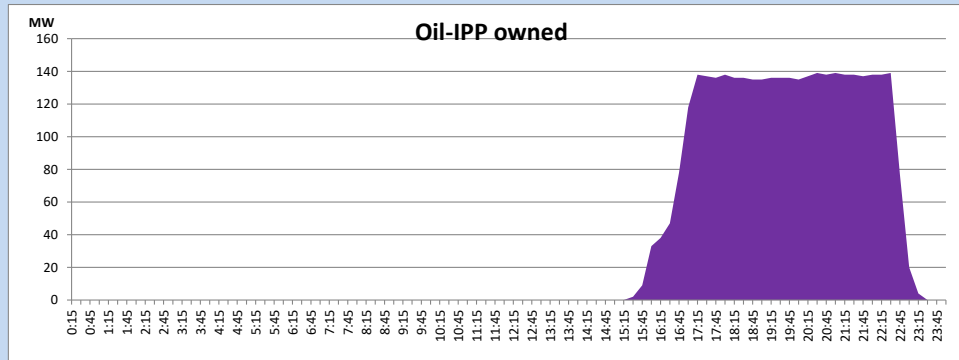
CEB Oil Plant Generation during

June 13, 2024



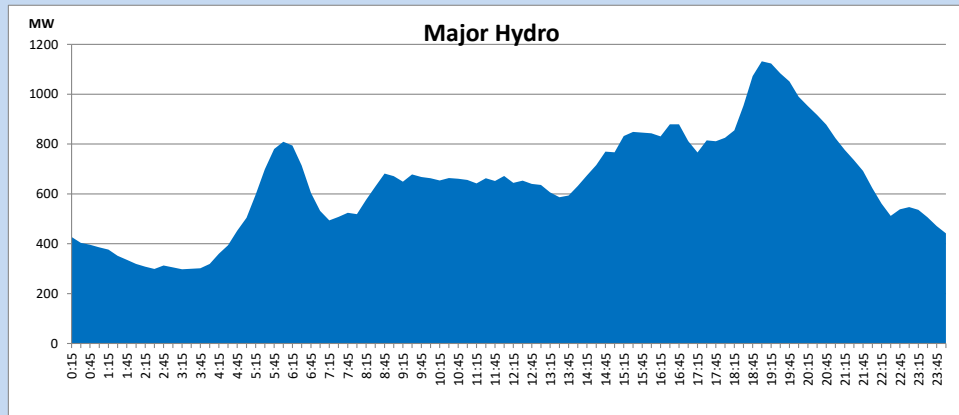
IPP Oil Plant Generation during

June 13, 2024



Major Hydro Generation during

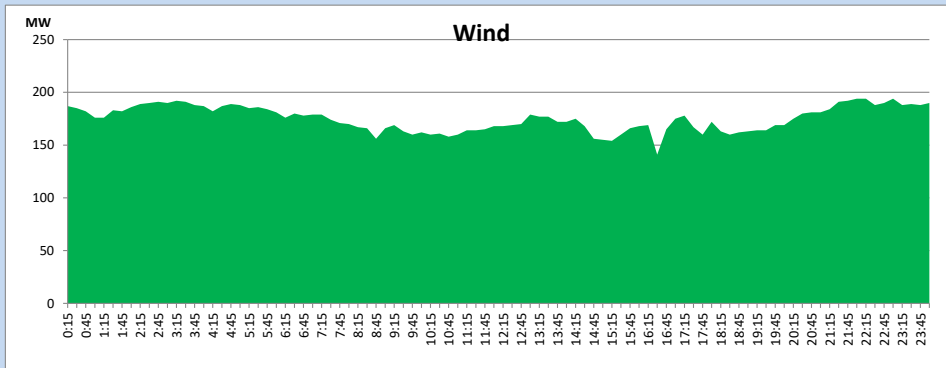
June 13, 2024



Wind Generation during

June 13, 2024

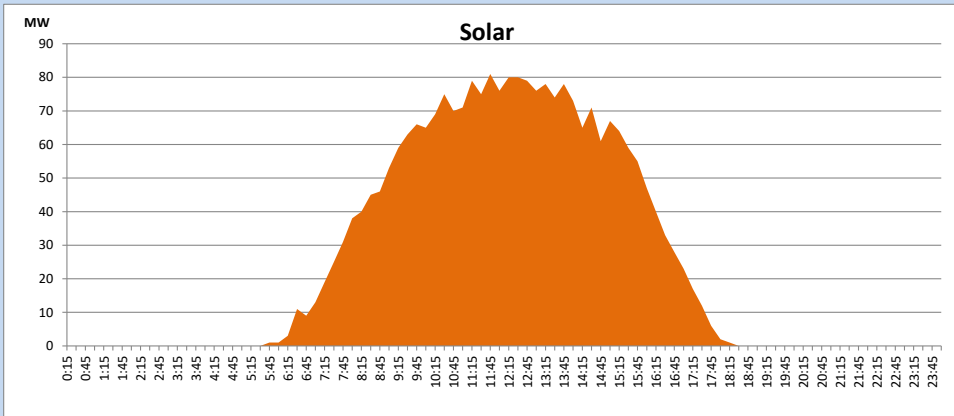
Based on Telemetered Power Stations only



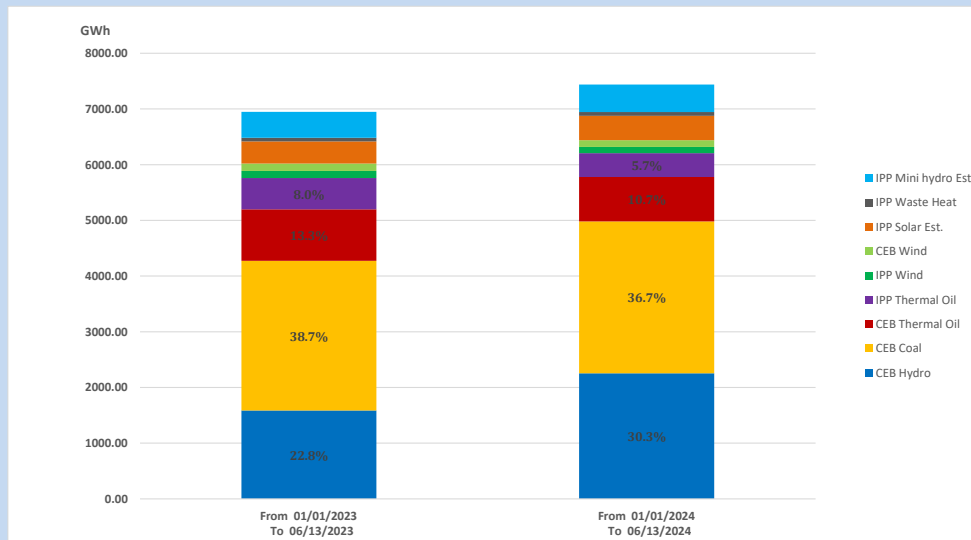
Solar Generation during

June 13, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 06/13/2023

6948 GWh

From 01/01/2024 To 06/13/2024

7438 GWh

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

Unserviced 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

June 13, 2024

- 1) Old Laxapana all units tripped at 17:20hrs rejecting 30MW from the system. Old Laxapana Unit 1, 2, 3, 4 and 5 resumed generation at 17:40hrs, 19:32hrs, 18:58hrs, 17:58hrs and 17:53hrs respectively.
- 2) Kilinochchi 132/33kV T/F 03 and 33kV B/S CB 02 tripped at 17:51hrs due to the operation of O/C protection, causing 33kV bus 03 and associated spare feeders to be dead. Kilinochchi GSS normalized by 18:27hrs.