

Generation and Reservoirs Statistics

June 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

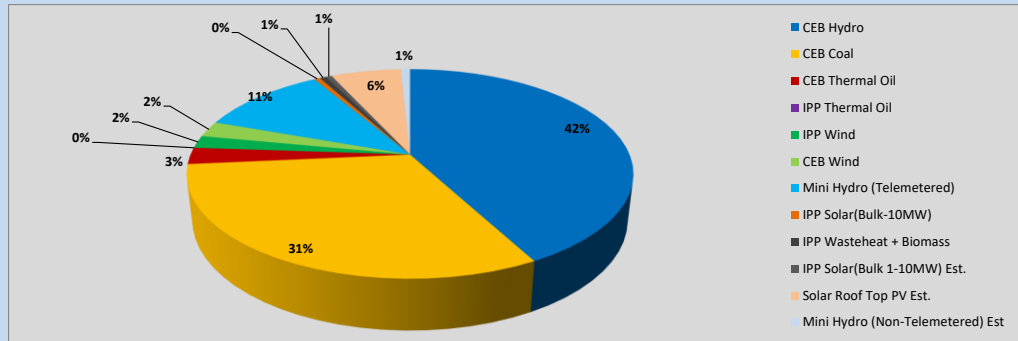


Table 01

	Generation (MWh)
CEB Hydro	16,114
CEB Coal	11,993
CEB Thermal Oil	979
IPP Thermal Oil	-
IPP Wind	738
CEB Wind	934
Mini Hydro (Telemetered)	4,239
IPP Solar (Bulk)	197
IPP Waste heat + Biomass	208
Total Generation (Excluding estimated figures)	35,402
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	306
* Estimated IPP Solar PV (Bulk 1-10MW)	198
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	38,226

* 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)	490
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	37	44.83%
CEB Coal	25	30.29%
CEB Thermal Oil	2	2.97%
IPP Thermal	0	0.36%
SPP Wind	1	1.79%
CEB Wind	2	2.75%
Mini Hydro *	8	9.76%
IPP Solar *	6	6.76%
IPP Waste heat + BMP	0	0.49%
Total	82	

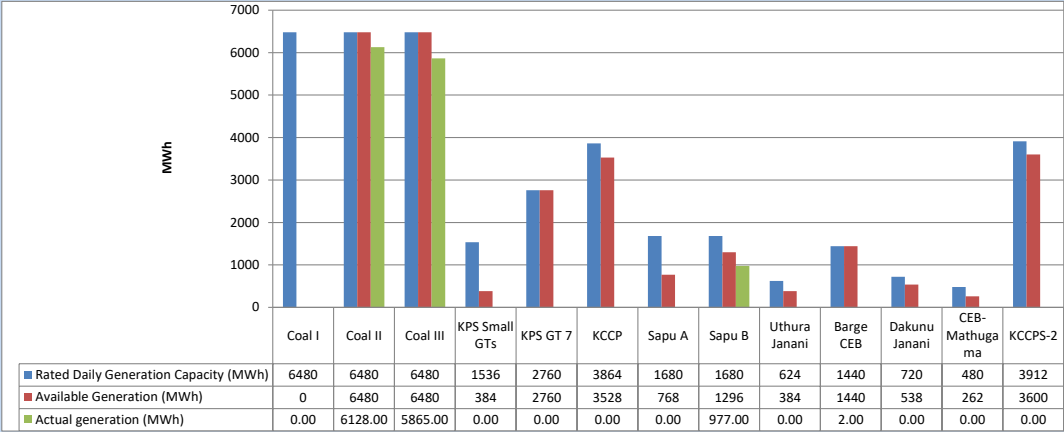
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,077	30.14%
CEB Coal	2,504	36.33%
CEB Thermal Oil	837	12.15%
IPP Thermal	418	6.07%
SPP Wind	89	1.29%
CEB Wind	96	1.40%
Mini Hydro *	424	6.15%
IPP Solar *	386	5.61%
IPP Waste heat	60	0.88%
Total	6,893	

*Including estimated contribution from non telemetered plants

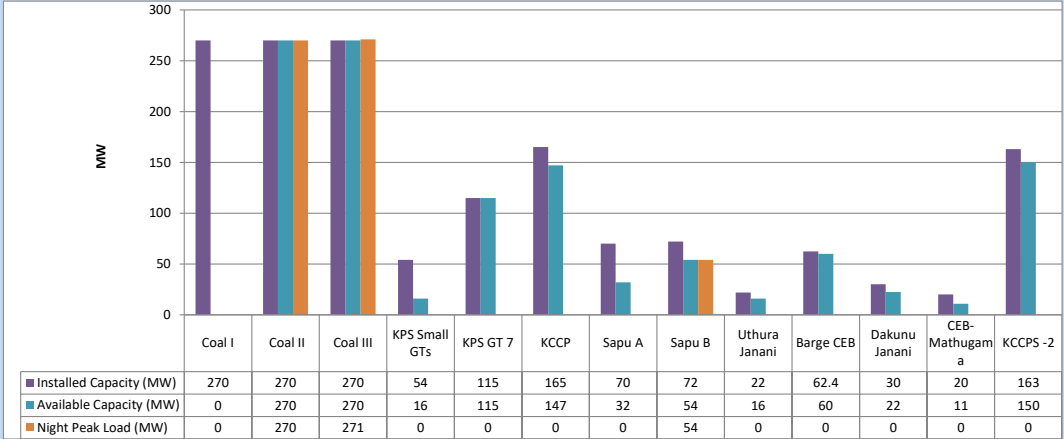
3. CEB owned Thermal Plant Dispatch

June 2, 2024



Available Generation is estimated based on plant availability at 6.00am on June 3, 2024

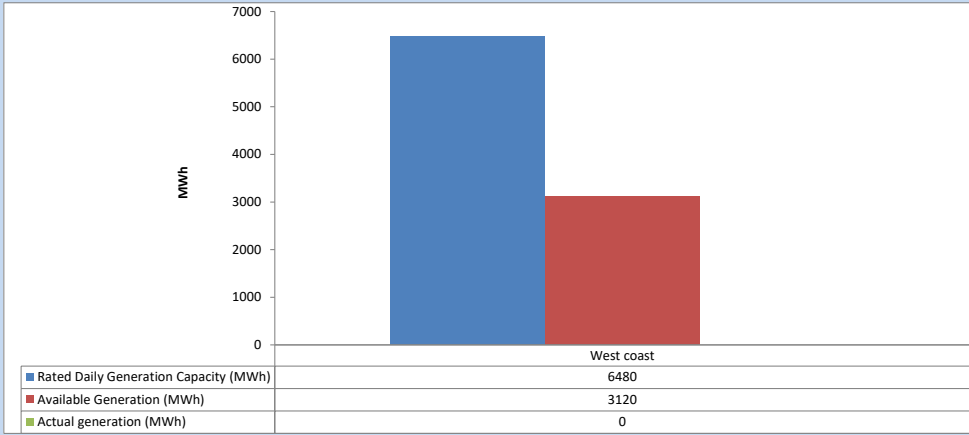
4. CEB owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on June 3, 2024

5. IPP owned Thermal Plant Dispatch

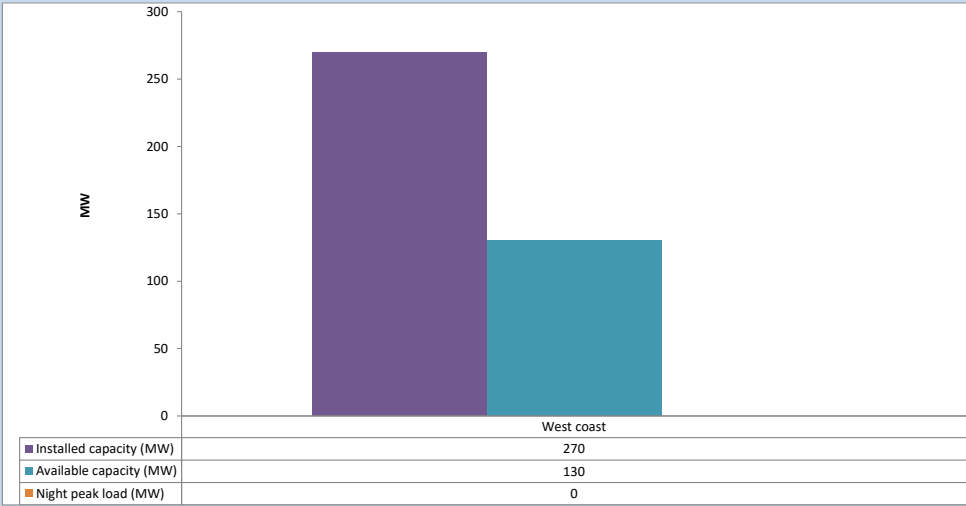
June 2, 2024



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

June 3, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

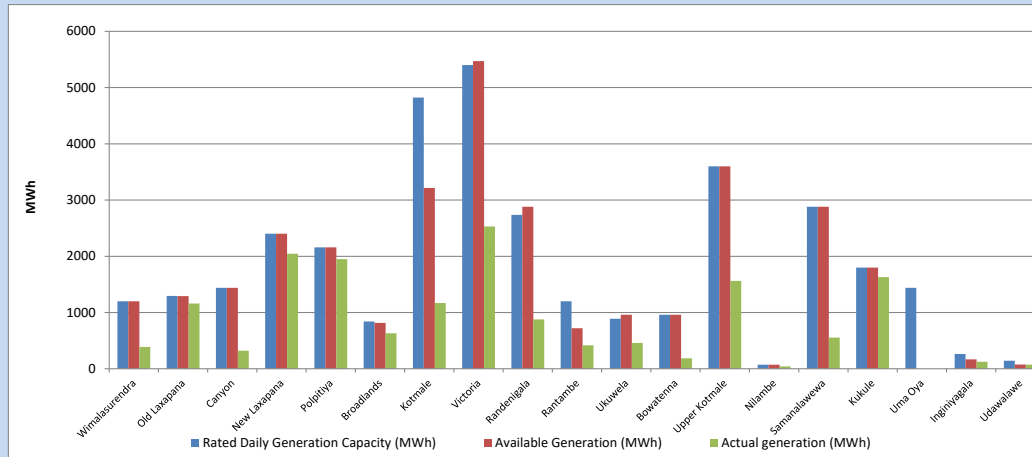


Plant availability is recorded at 6.00 am on

June 3, 2024

7. Major Hydro Plant Dispatch

June 2, 2024

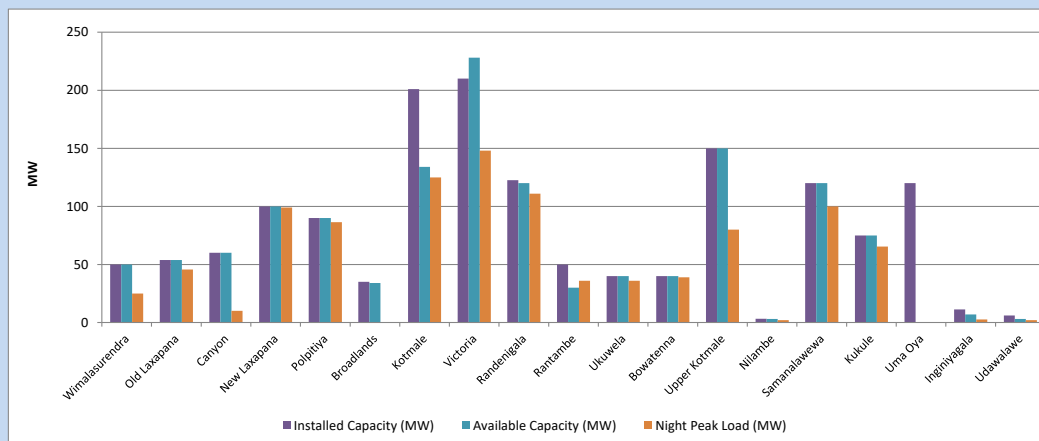


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 3, 2024

8. Major Hydro Plant Loading at Night Peak

June 2, 2024



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

June 3, 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	25	388
Old Laxapana	54	54	46	1,161
Canyon	60	60	10	320
New Laxapana	100	100	99	2,044
Polpitiya	90	90	86	1,950
Broadlands	35	34	0	632
Kotmale	201	134	125	1,170
Victoria	210	228	148	2,529
Randenigala	123	120	111	878
Rantambe	50	30	36	417
Ukuwela	40	40	36	459
Bowatenna	40	40	39	186
Upper Kotmale	150	150	80	1,561
Nilambe	3	3	2	40
Samanalawewa	120	120	100	554
Kukule	75	75	65	1,630
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	124
Udawalawe	6	3	2	72
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,128
Puttalam Coal III	270	270	271	5,865
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	54	54	977
Uthura Janani	22	16	0	0
Barge CEB	62	60	0	2
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	0	0
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,631	1,874	35,403

Note-

Plant availability is the availability recorded at 6 am on

June 3, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

June 2, 2024

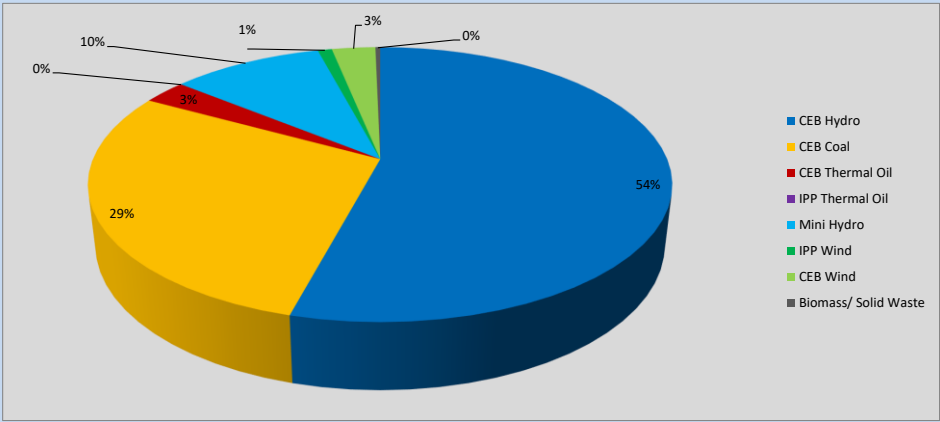


Table 06

CEB Hydro	1017	MW
CEB Coal	541	MW
CEB Thermal Oil	54	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	188	MW
IPP Wind	17.6	MW
CEB Wind	54.1	MW
Biomass/ Solid Waste	6	MW

Recorded Peak Demand Data

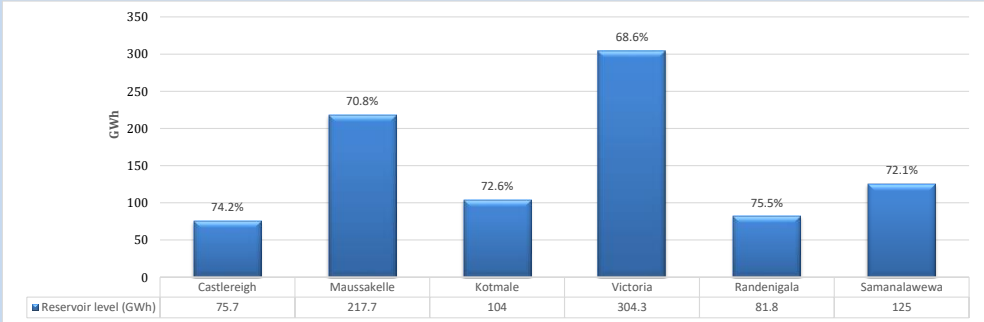
Table 07

Night Peak*	1,878	MW
Day Peak Maximum Demand	1,560	MW
Day Peak Minimum Demand	1,343	MW
Off Peak Minimum Demand	1,199	MW

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

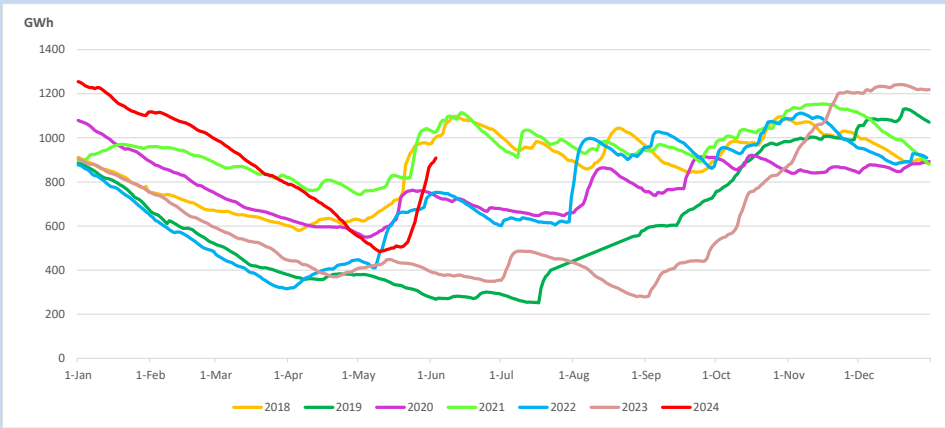
Reservoir Levels -

as at 06.00 Hr on June 3, 2024

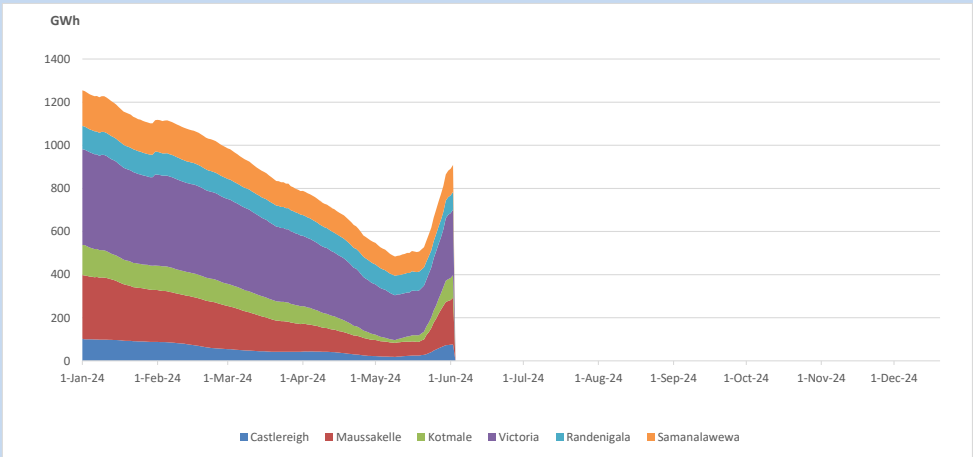


Total Reservoir Level 908.5 GWh
% of Total capacity 71.1%

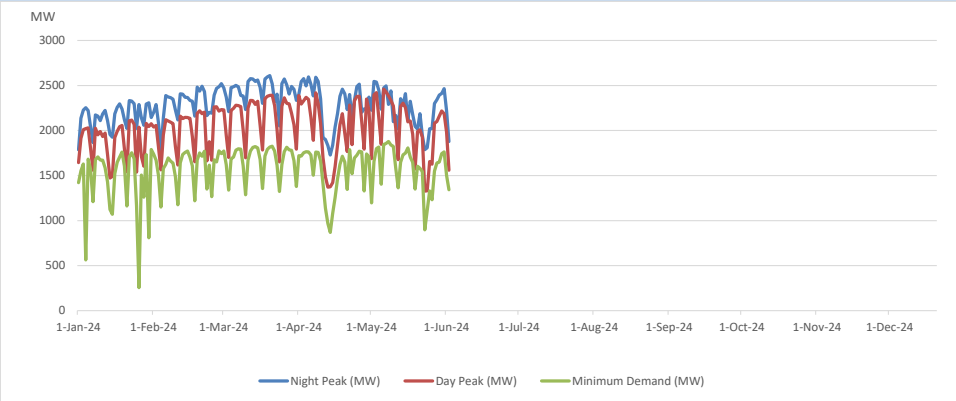
11. Comparison of Total Reservoir Storage Levels with Past Years



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



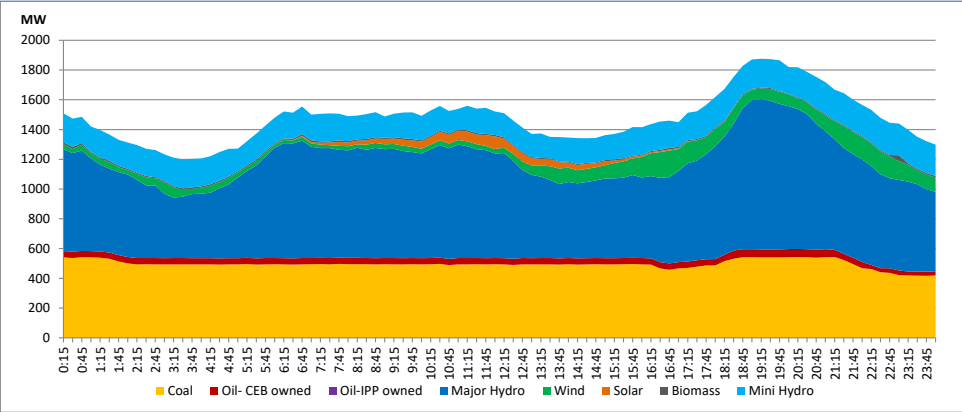
13. Variation of Demand during the current year



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

14. Daily Load Curve

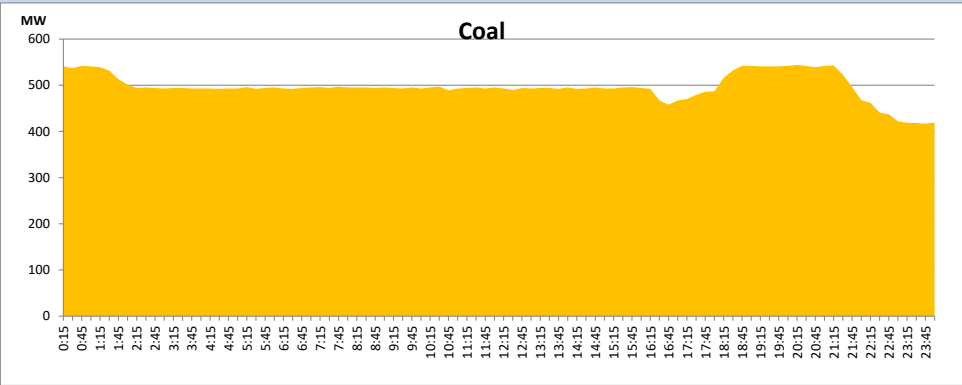
June 2, 2024



Solar and wind data is based on Telemetered Power Stations only

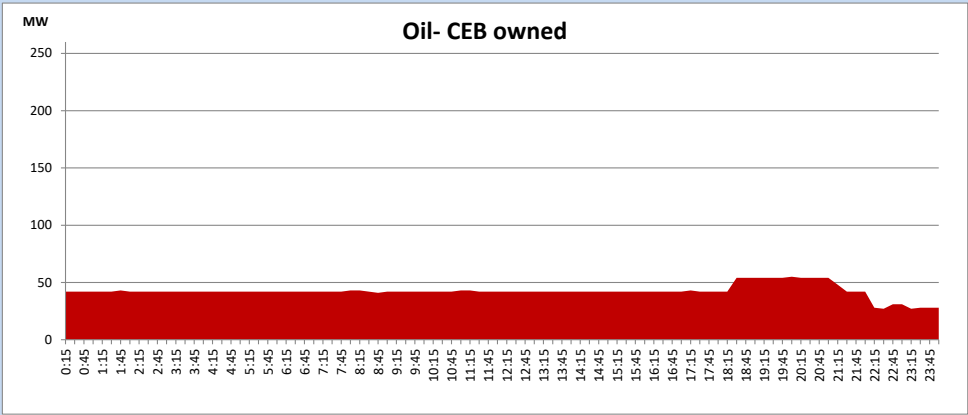
Coal Generation during

June 2, 2024



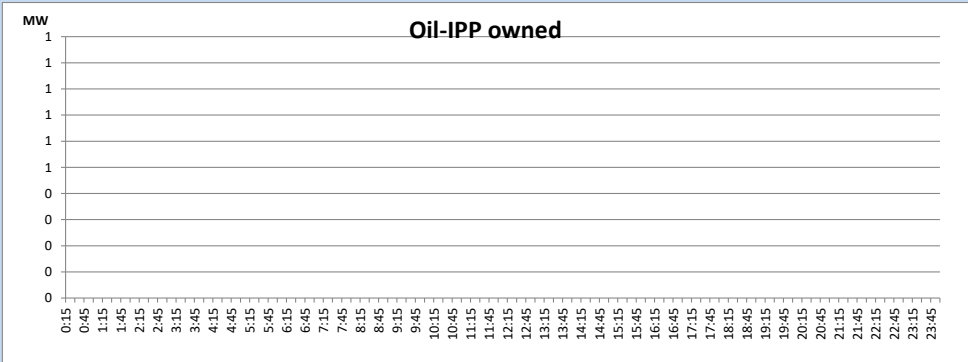
CEB Oil Plant Generation during

June 2, 2024



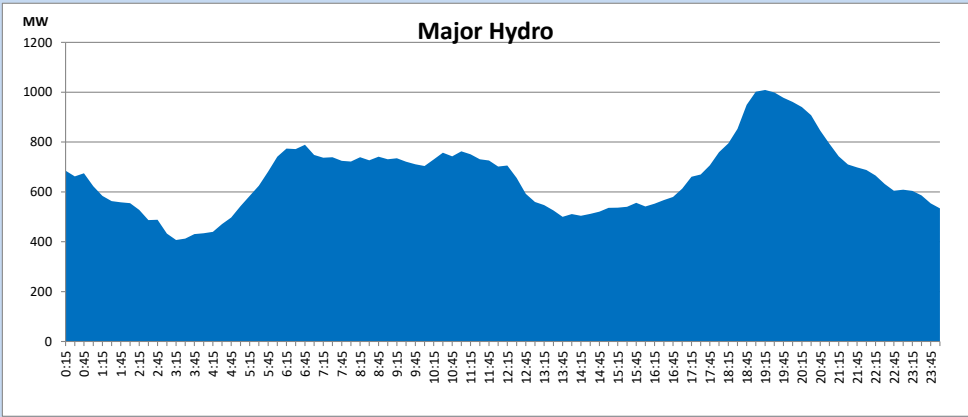
IPP Oil Plant Generation during

June 2, 2024



Major Hydro Generation during

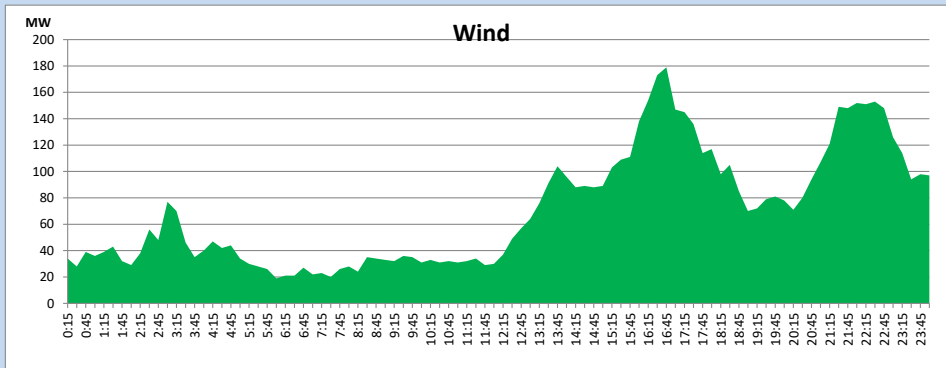
June 2, 2024



Wind Generation during

June 2, 2024

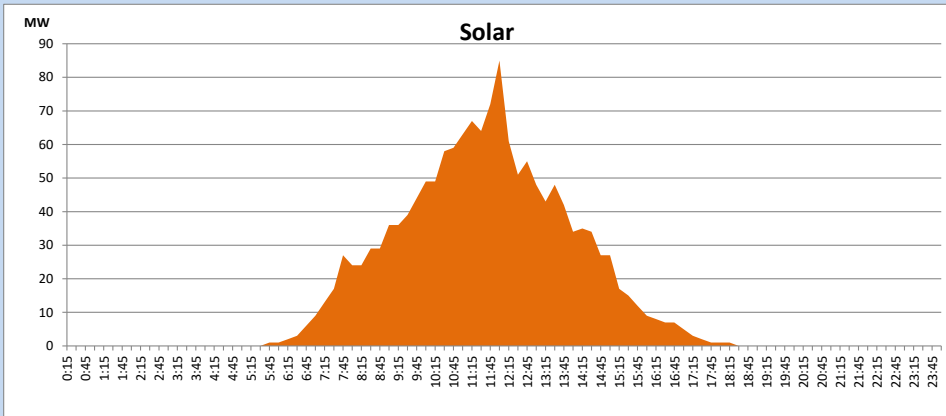
Based on Telemetered Power Stations only



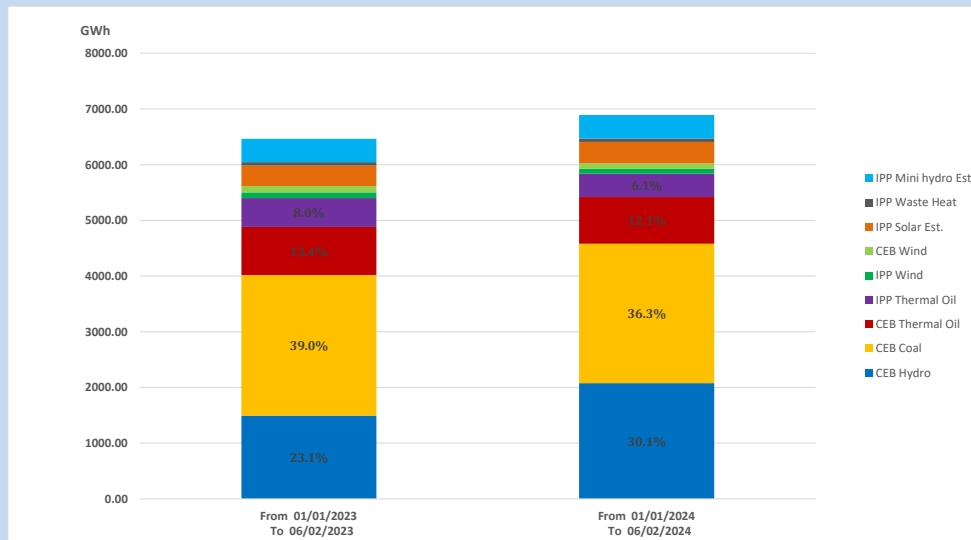
Solar Generation during

June 2, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 06/02/2023

6465 GWh

From 01/01/2024 To 06/02/2024

6893 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

June 2, 2024

- 1). New Polpitiya - Thulhiriya - Athurugiriya 132kV cct tripped and A/R from all ends and at 10:59hrs and at 11:08hrs due to the operation of distance protection. And Polpitiya PS- Thulhiriya - Athurugiriya 132kV cct tripped and A/R from Polpitiya PS end and Athurugiriya end at 10:59hrs and tripped and A/R from all ends at 11:08hrs due to the operation of distance protection.
- 2). Kukule unit 02 automatically deloaded and stopped at 12:17hrs , 14:41hrs and 16:09hrs and unit 01 automatically deloaded and stopped at 17:21hrs due to low penstock pressure. The unit 01 is resumed generation at 12:37hrs,15:48hrs and 16:57hrs respectively and the unit01 is resumed generation at 17:52hrs.
- 3). LVPS Unit 03 deloaded to 200MW(net) at 16:35hrs due to an intake blockage of a CW pump and reached full load at 18:35hrs.
- 4). Kilinochchi - Chunnakam 132kV cct 01 tripped and A/R from both ends at 17:01hrs , Kilinochchi - Chunnakam 132kV cct 02 tripped and A/R from both ends at 17:36hrs and both ccts tripped and A/R from both ends at 18:07hrs due to the operation of distance protection.
- 5).Biyagama 220/132/33kV T/F 01 tripped from all ends at 17:11hrs with the indication of "pressure relief operated". The T/F is normalized at 20:40hrs.
- 6).Kukule Ganga pond spilling continues to the present hour.