

Generation and Reservoirs Statistics

June 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

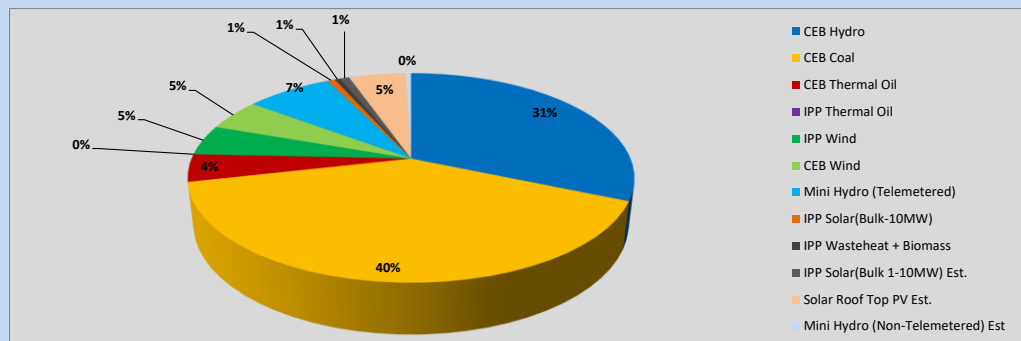


Table 01

	Generation (MWh)
CEB Hydro	14,718
CEB Coal	18,782
CEB Thermal Oil	1,987
IPP Thermal Oil	-
IPP Wind	2,192
CEB Wind	2,271
Mini Hydro (Telemetered)	3,494
IPP Solar (Bulk)	310
IPP Waste heat + Biomass	223
Total Generation (Excluding estimated figures)	43,977
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	210
* Estimated IPP Solar PV (Bulk 1-10MW)	379
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	46,886

* 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	314	34.47%
CEB Coal	324	35.52%
CEB Thermal Oil	33	3.59%
IPP Thermal	14	1.48%
SPP Wind	37	4.08%
CEB Wind	41	4.54%
Mini Hydro *	84	9.19%
IPP Solar *	60	6.55%
IPP Waste heat + BMP	5	0.58%
Total	911	

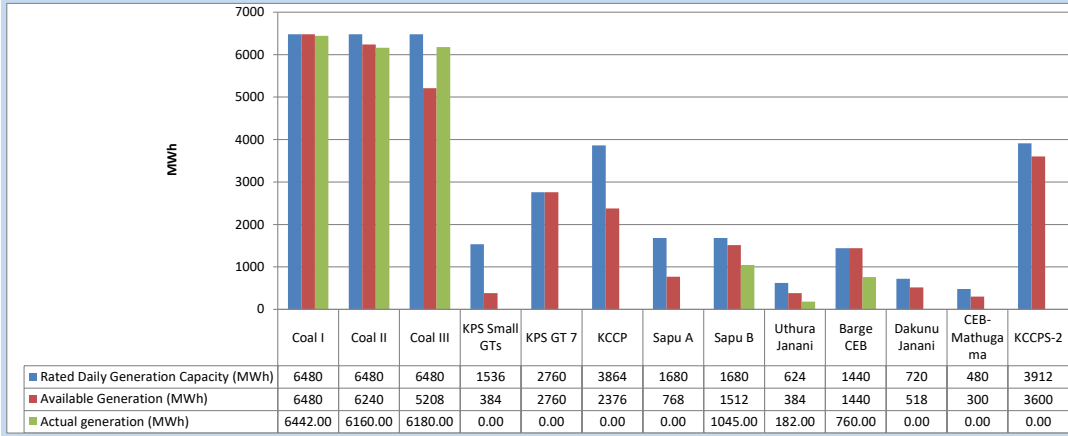
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,353	30.31%
CEB Coal	2,859	36.83%
CEB Thermal Oil	811	10.45%
IPP Thermal	431	5.55%
SPP Wind	128	1.65%
CEB Wind	135	1.74%
Mini Hydro *	515	6.64%
IPP Solar *	461	5.94%
IPP Waste heat	70	0.90%
Total	7,764	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

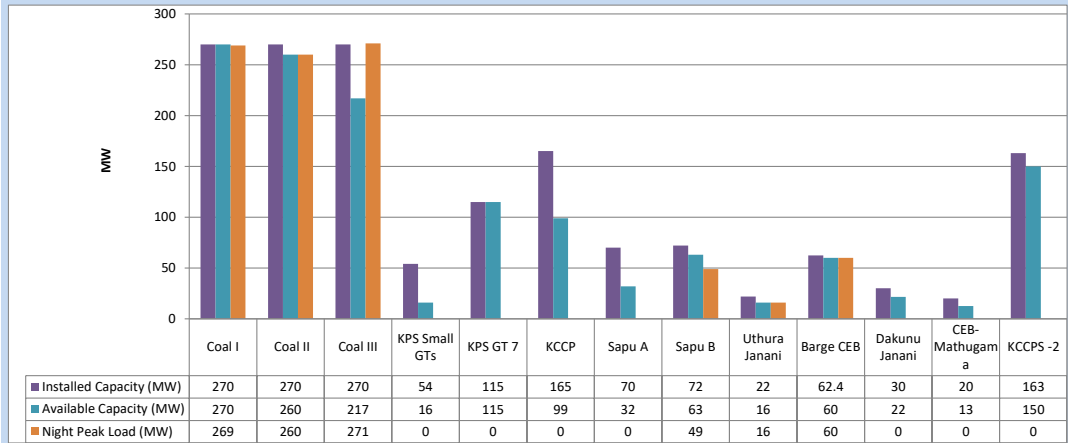
June 20, 2024



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

June 21, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

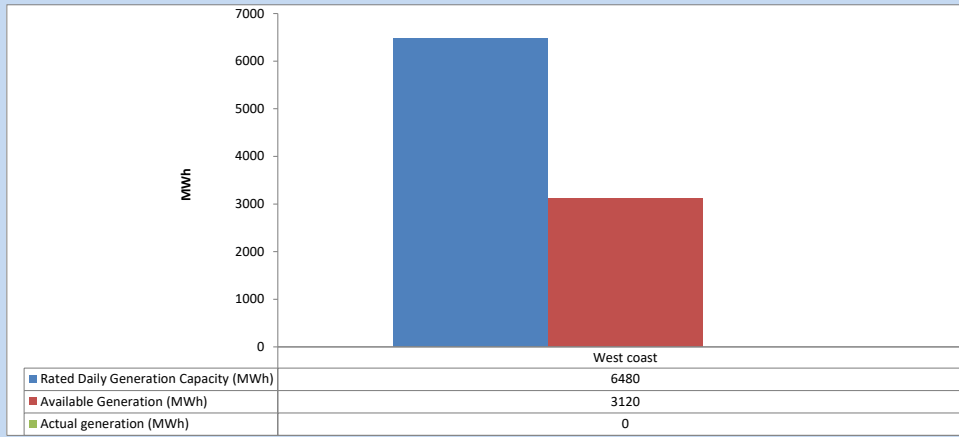


Plant availability is recorded at 6.00 am on

June 21, 2024

5. IPP owned Thermal Plant Dispatch

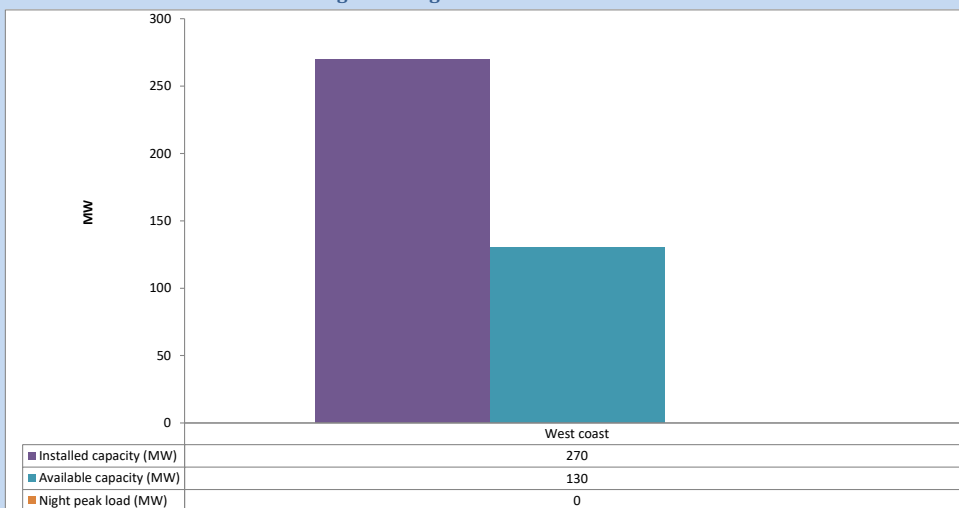
June 20, 2024



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

June 21, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

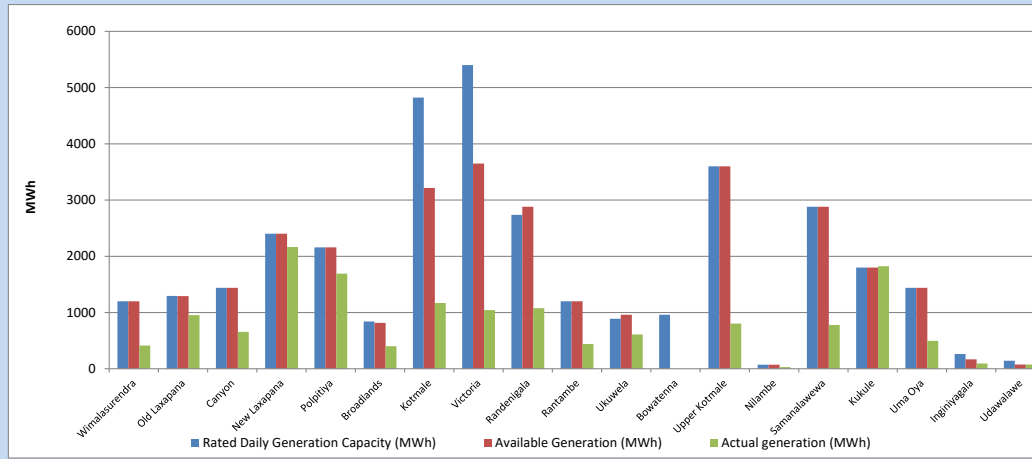


Plant availability is recorded at 6.00 am on

June 21, 2024

7. Major Hydro Plant Dispatch

June 20, 2024

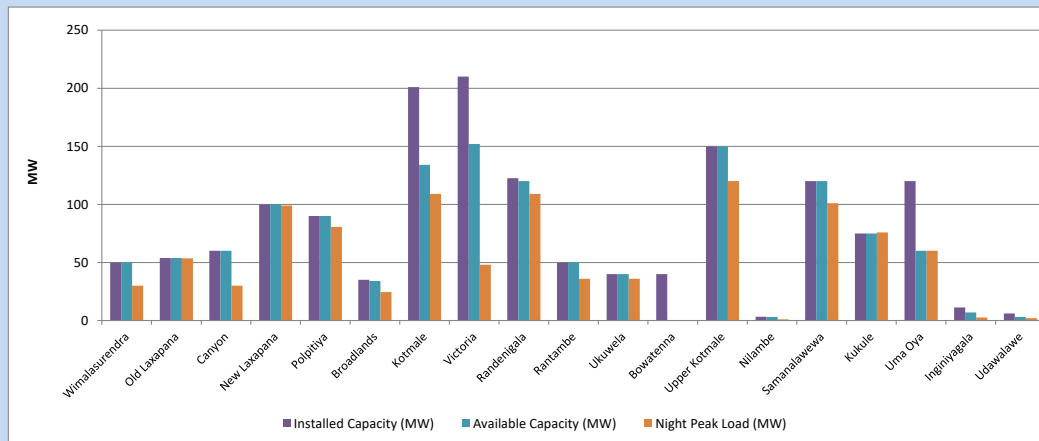


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 21, 2024

8. Major Hydro Plant Loading at Night Peak

June 20, 2024



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

June 21, 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	413
Old Laxapana	54	54	54	953
Canyon	60	60	30	656
New Laxapana	100	100	99	2,166
Polpitiya	90	90	81	1,690
Broadlands	35	34	25	401
Kotmale	201	134	109	1,170
Victoria	210	152	48	1,042
Randenigala	123	120	109	1,078
Rantambe	50	50	36	441
Ukuwela	40	40	36	611
Bowatenna	40	0	0	0
Upper Kotmale	150	150	120	802
Nilambe	3	3	1	30
Samanalawewa	120	120	101	778
Kukule	75	75	76	1,823
Uma Oya (Testing)	120	60	60	497
Inginiyagala	11	7	3	93
Udawalawe	6	3	2	76
Puttalam Coal I	270	270	269	6,442
Puttalam Coal II	270	260	260	6,160
Puttalam Coal III	270	217	271	6,180
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	99	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	49	1,045
Uthura Janani	22	16	16	182
Barge CEB	62	60	60	760
CEB-Hambantota	30	22	0	0
CEB-Mathugama	20	13	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
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,764	2,301	43,979

Note-

Plant availability is the availability recorded at 6 am on
Installed Capacity is sourced from CEB Annual Report- 2022

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10. Contribution to the Night Peak in MW

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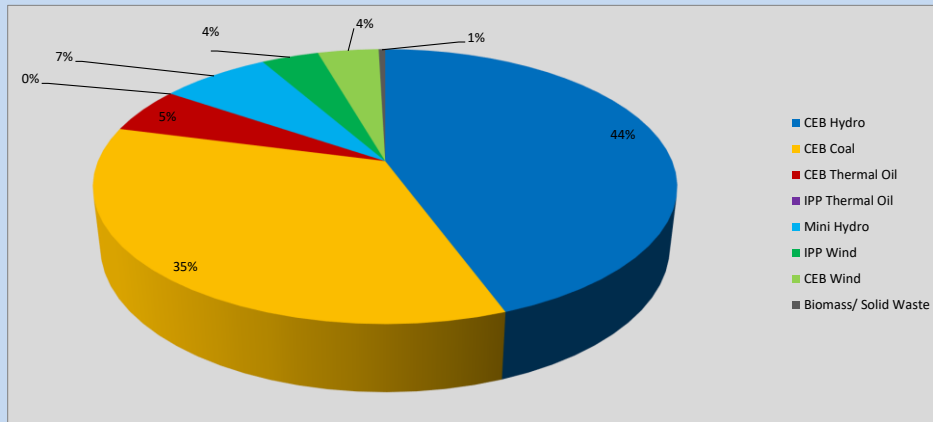


Table 06

CEB Hydro	1024	MW
CEB Coal	800	MW
CEB Thermal Oil	125	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	167	MW
IPP Wind	87.5	MW
CEB Wind	93	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

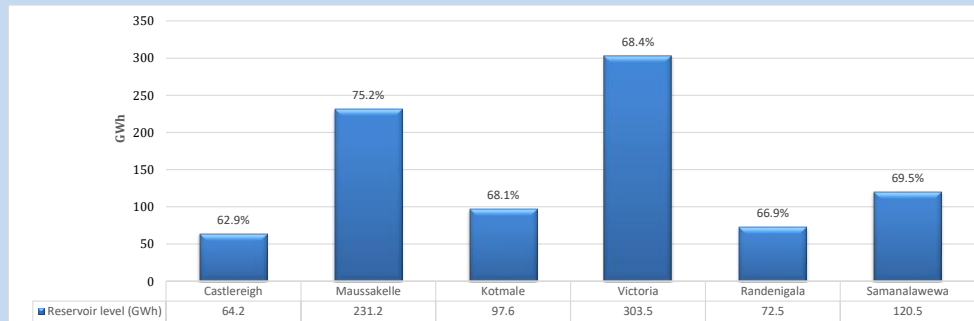
Table 07

Night Peak*	2,306	MW
Day Peak Maximum Demand	2,091	MW
Day Peak Minimum Demand	1,695	MW
Off Peak Minimum Demand	1,368	MW

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

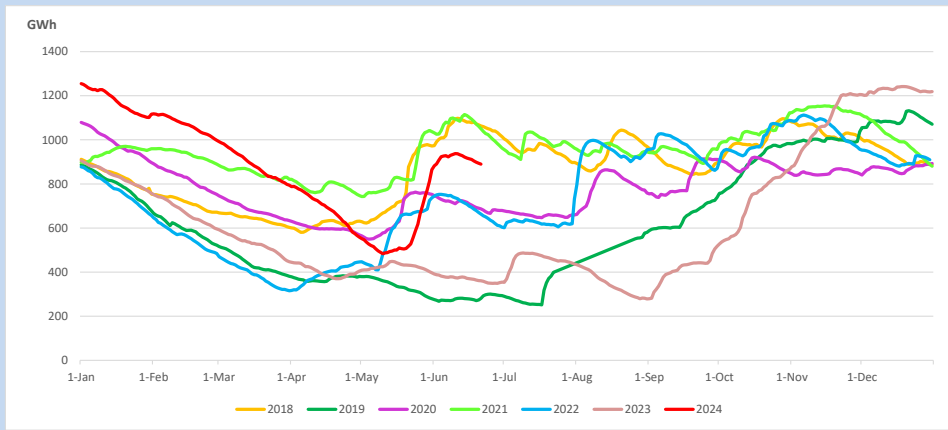
Reservoir Levels -

as at 06.00 Hr on June 21, 2024

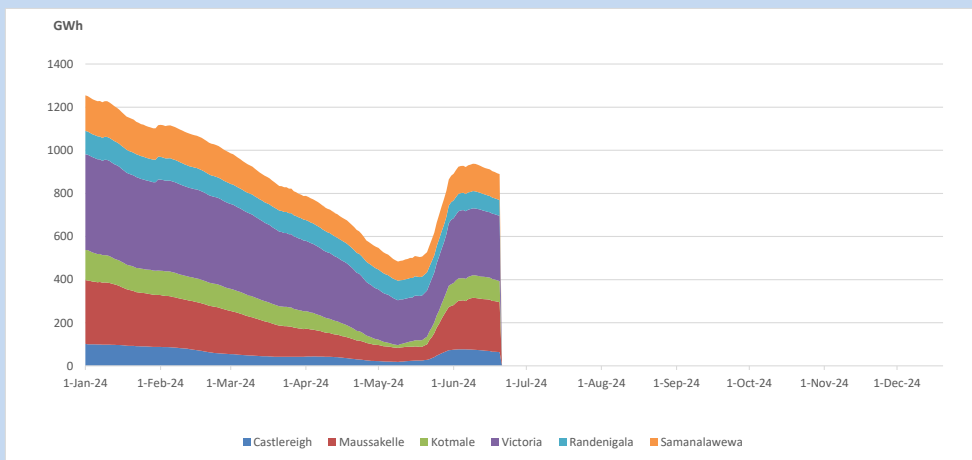


Total Reservoir Level 889.5 GWh
% of Total capacity 69.6%

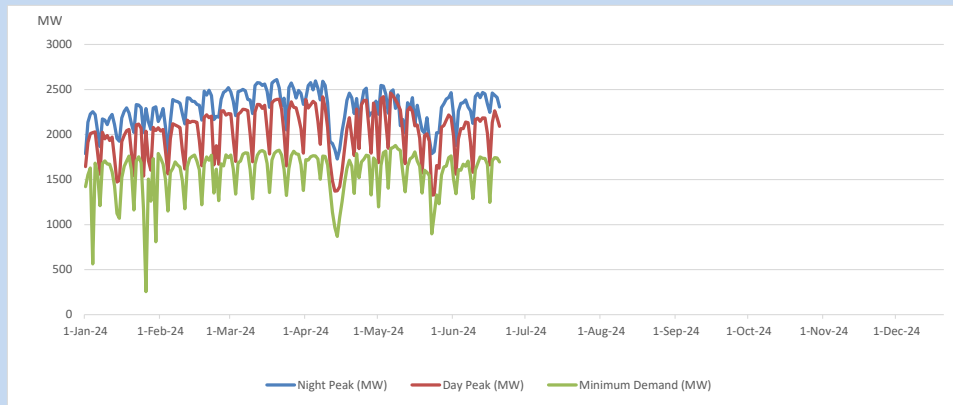
11. Comparison of Total Reservoir Storage Levels with Past Years



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



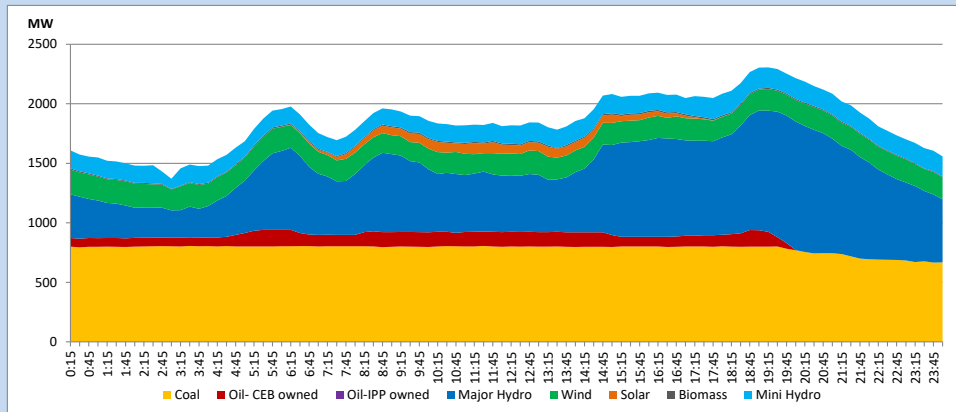
13. Variation of Demand during the current year



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

14. Daily Load Curve

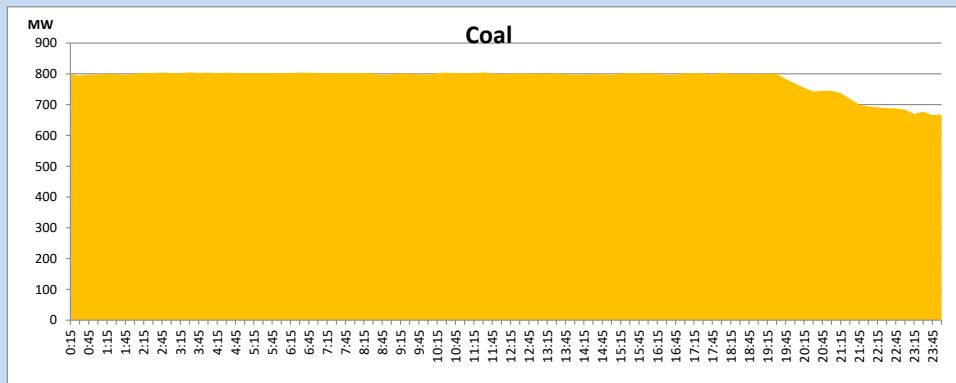
June 20, 2024



Solar and wind data is based on Telemetered Power Stations only

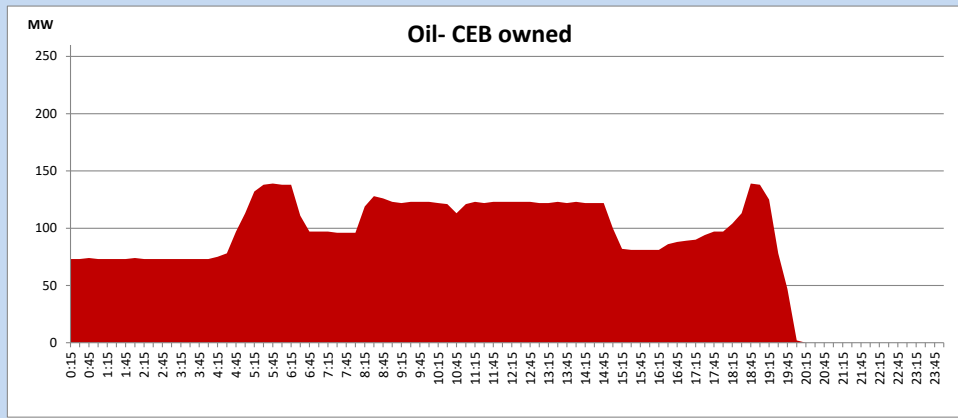
Coal Generation during

June 20, 2024



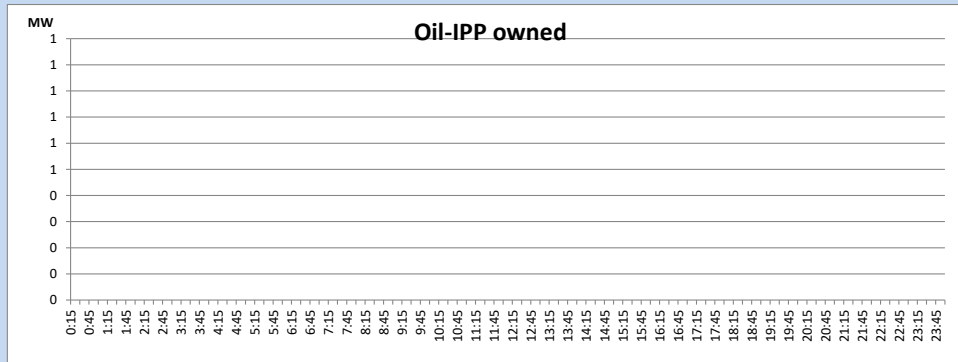
CEB Oil Plant Generation during

June 20, 2024



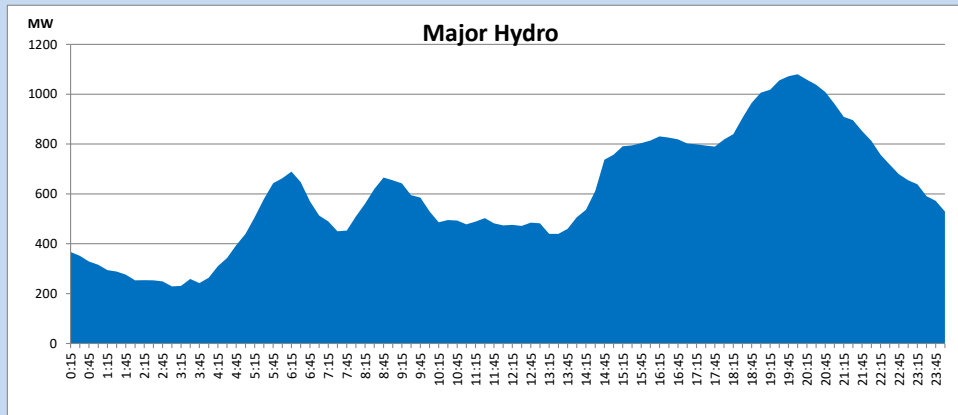
IPP Oil Plant Generation during

June 20, 2024



Major Hydro Generation during

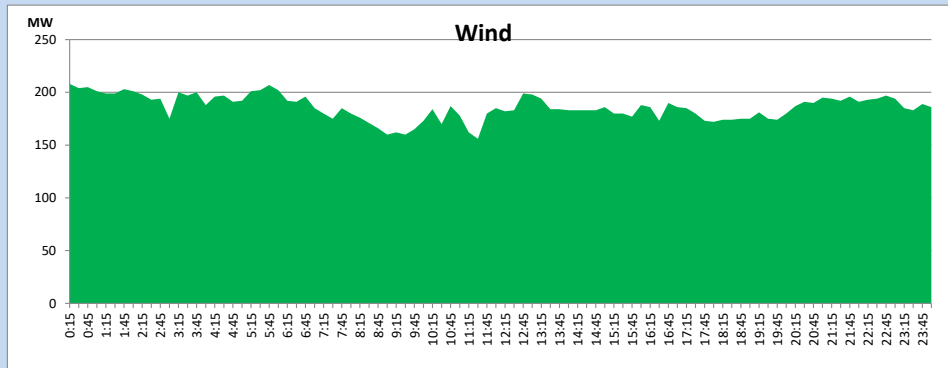
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Wind Generation during

June 20, 2024

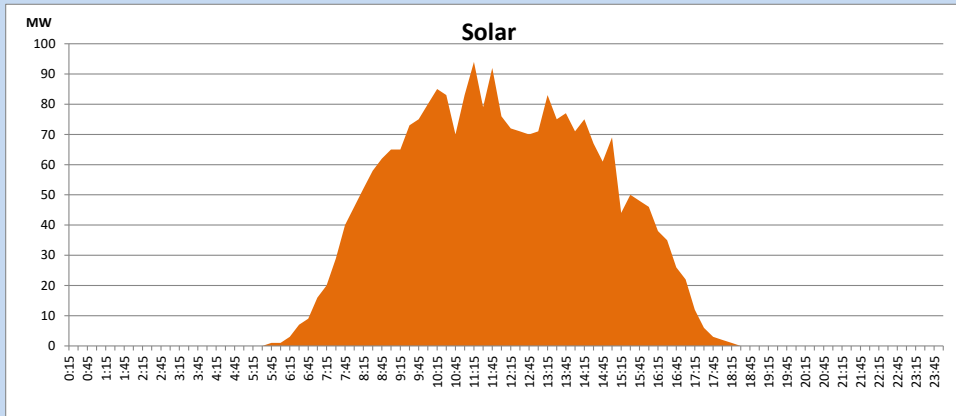
Based on Telemetered Power Stations only



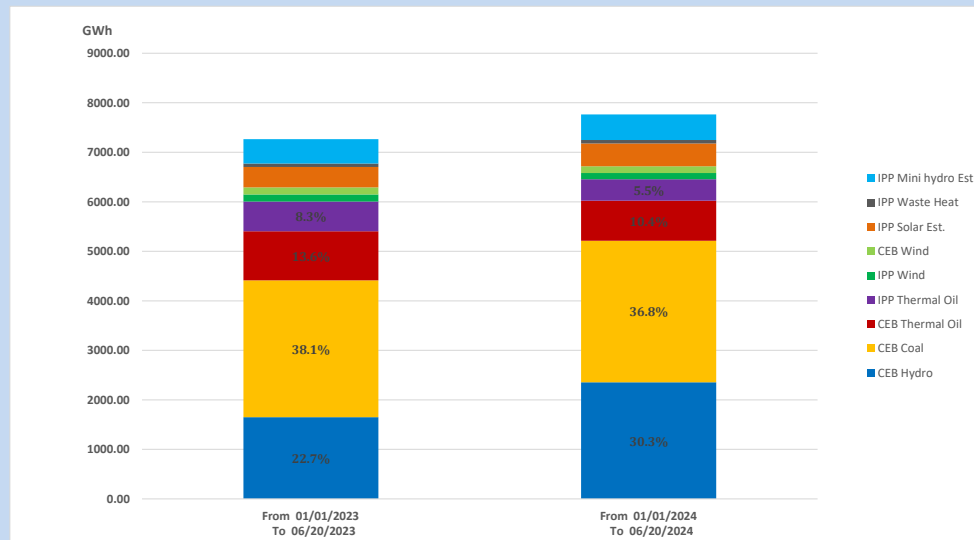
Solar Generation during

June 20, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 06/20/2023
 From 01/01/2024 To 06/20/2024

7266 GWh
 7764 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
Sobadhanavi	Auto Diesel

Major Incidents reported during the day

June 20, 2024

- 1) Kerawalapitiya - Kotugoda 220kV cct 02 tripped from Kotugoda end and tripped and A/R from Kerawalapitiya end at 7:21hrs due to operation of Differential protection. Kerawalapitiya - Kotugoda cct 02 restored at 7:43hrs.
- 2) Uma Oya unit 01, which was made unavailable from 15:04hrs (19/06/2024), resumed generation at 13:30hrs.
- 3) Kosgama 132/33kV T/F 01 manually switched off from both ends at 6:34hrs, due to SF6 low alarm on 132kV CB. Kosgama 132/33kV T/F is yet to be restored.