

Generation and Reservoirs Statistics

June 28, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

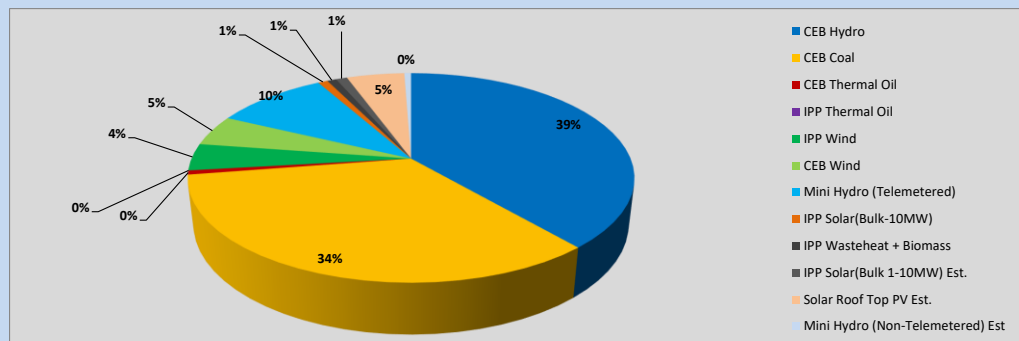


Table 01

	Generation (MWh)
CEB Hydro	17,932
CEB Coal	15,721
CEB Thermal Oil	295
IPP Thermal Oil	-
IPP Wind	1,933
CEB Wind	2,203
Mini Hydro (Telemetered)	4,516
IPP Solar (Bulk)	385
IPP Waste heat + Biomass	368
Total Generation (Excluding estimated figures)	43,353
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	272
* Estimated IPP Solar PV (Bulk 1-10MW)	448
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	46,393

* 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	438	34.82%
CEB Coal	440	34.96%
CEB Thermal Oil	38	3.01%
IPP Thermal	16	1.24%
SPP Wind	56	4.44%
CEB Wind	58	4.60%
Mini Hydro *	121	9.64%
IPP Solar *	84	6.66%
IPP Waste heat + BMP	8	0.64%
Total	1,258	

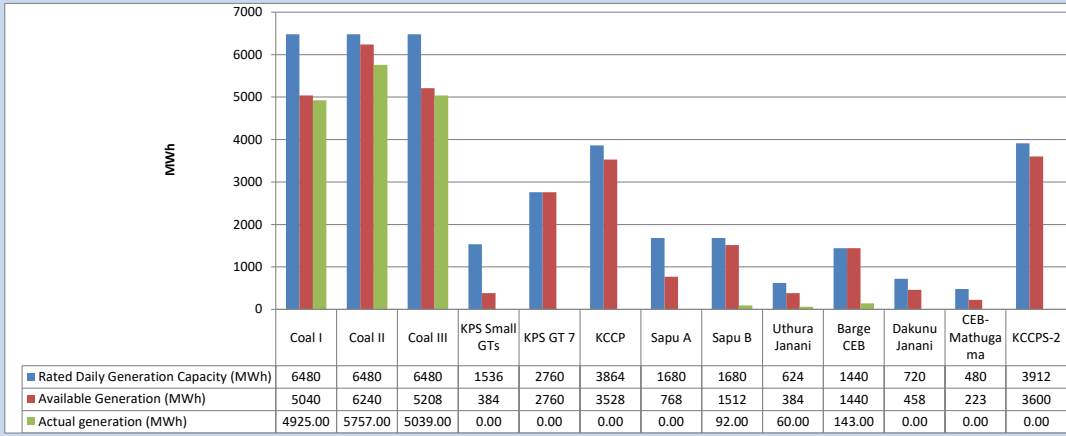
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,477	30.55%
CEB Coal	2,975	36.68%
CEB Thermal Oil	816	10.06%
IPP Thermal	433	5.34%
SPP Wind	147	1.81%
CEB Wind	152	1.87%
Mini Hydro *	553	6.82%
IPP Solar *	485	5.98%
IPP Waste heat	72	0.89%
Total	8,111	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

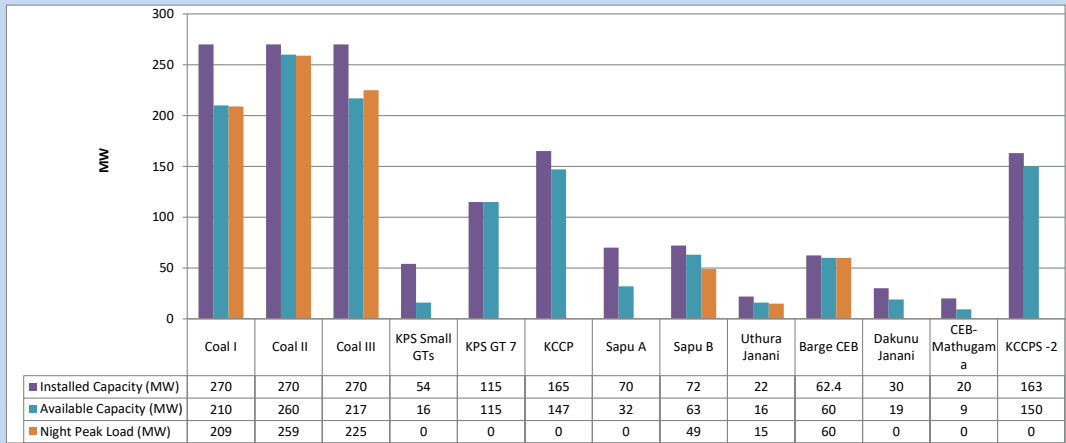
June 28, 2024



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

June 29, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

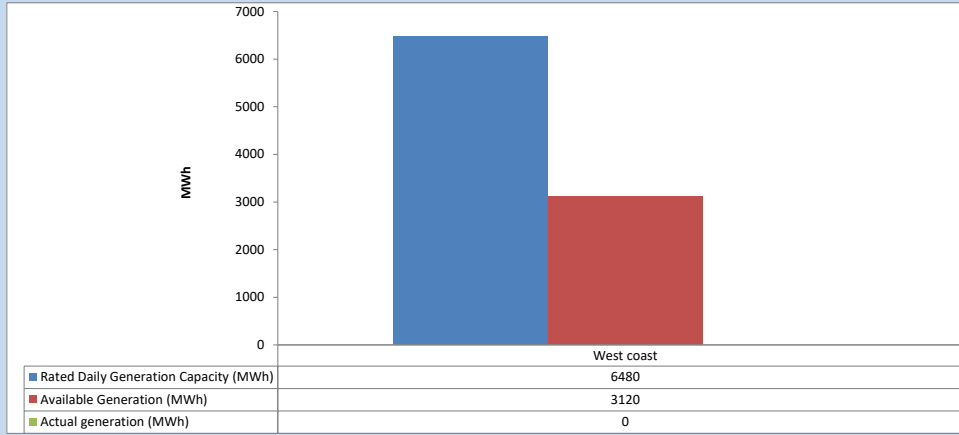


Plant availability is recorded at 6.00 am on

June 29, 2024

5. IPP owned Thermal Plant Dispatch

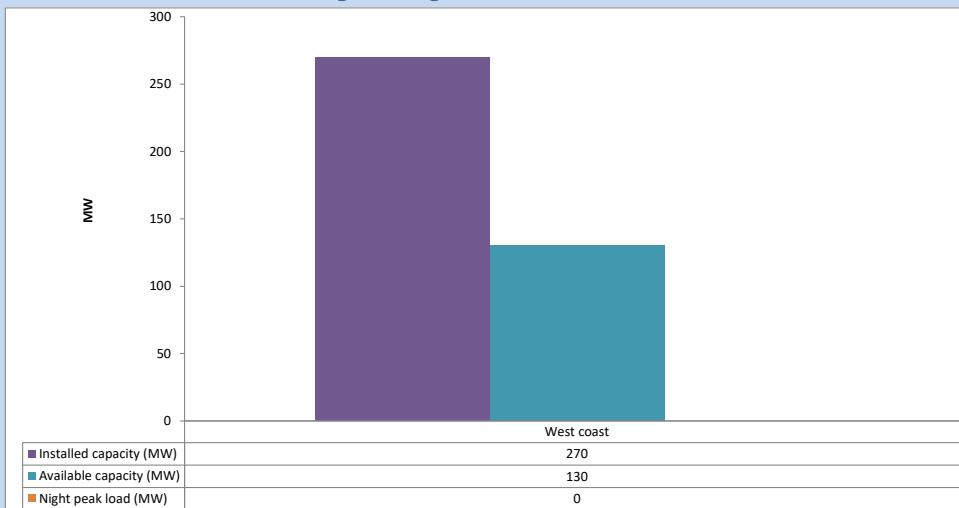
June 28, 2024



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

June 29, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

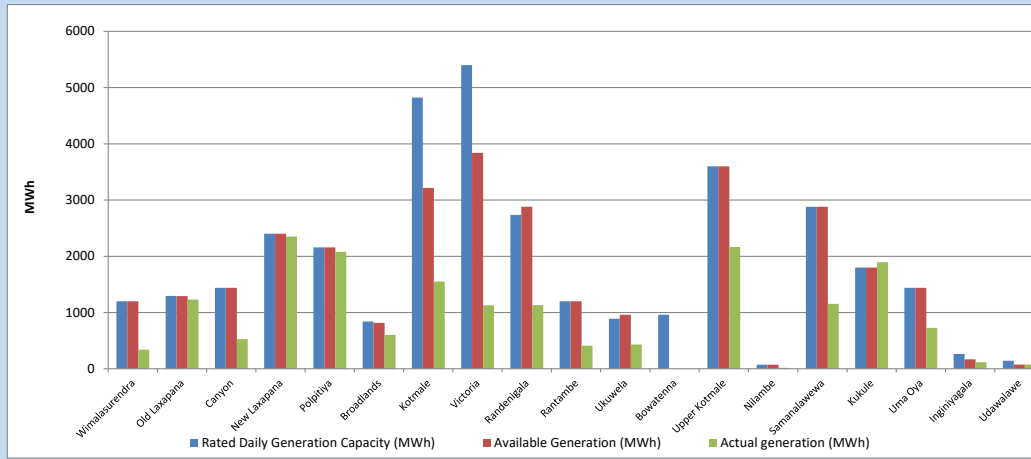


Plant availability is recorded at 6.00 am on

June 29, 2024

7. Major Hydro Plant Dispatch

June 28, 2024

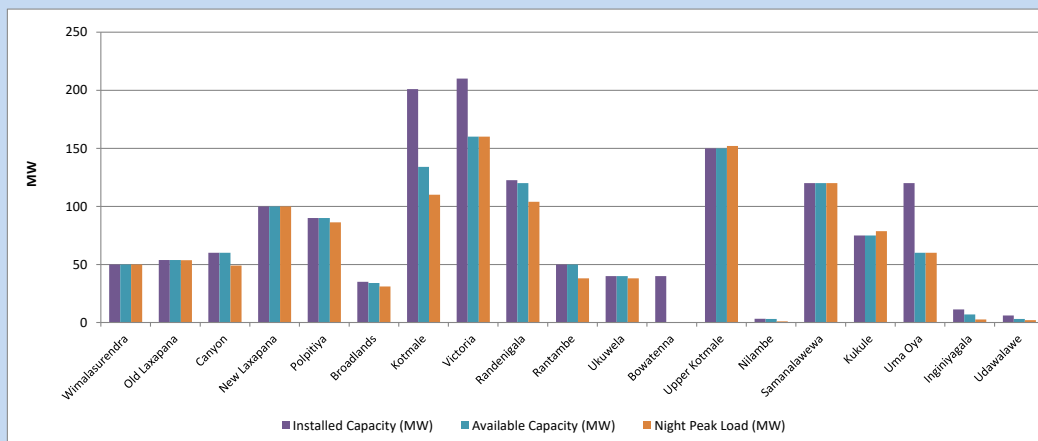


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 29, 2024

8. Major Hydro Plant Loading at Night Peak

June 28, 2024



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

June 29, 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	340
Old Laxapana	54	54	54	1,231
Canyon	60	60	49	527
New Laxapana	100	100	100	2,352
Polpitiya	90	90	86	2,080
Broadlands	35	34	31	603
Kotmale	201	134	110	1,550
Victoria	210	160	160	1,128
Randenigala	123	120	104	1,131
Rantambe	50	50	38	411
Ukuwela	40	40	38	431
Bowatenna	40	0	0	0
Upper Kotmale	150	150	152	2,166
Nilambe	3	3	1	18
Samanalawewa	120	120	120	1,155
Kukule	75	75	79	1,893
Uma Oya (Testing)	120	60	60	728
Inginiyagala	11	7	3	114
Udawalawe	6	3	2	75
Puttalam Coal I	270	210	209	4,925
Puttalam Coal II	270	260	259	5,757
Puttalam Coal III	270	217	225	5,039
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	63	49	92
Uthura Janani	22	16	15	60
Barge CEB	62	60	60	143
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	9	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	2,754	2,421	43,354

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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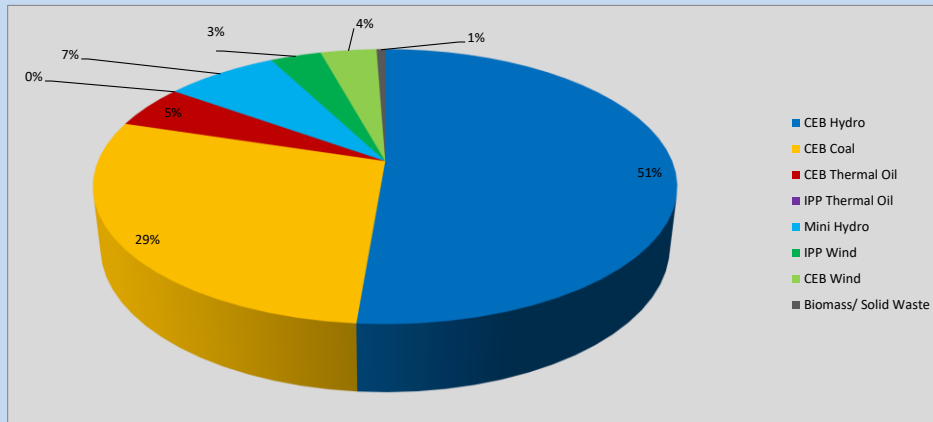


Table 06

CEB Hydro	1248	MW
CEB Coal	693	MW
CEB Thermal Oil	124	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	181	MW
IPP Wind	82.1	MW
CEB Wind	90.2	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

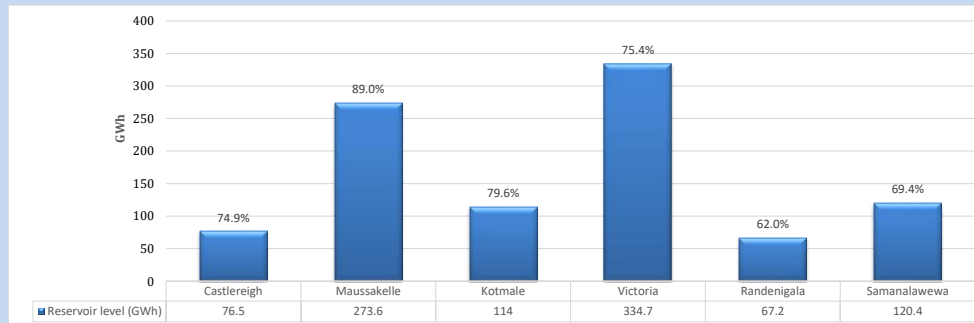
Table 07

Night Peak*	2,433	MW
Day Peak Maximum Demand	2,126	MW
Day Peak Minimum Demand	1,657	MW
Off Peak Minimum Demand	1,418	MW

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

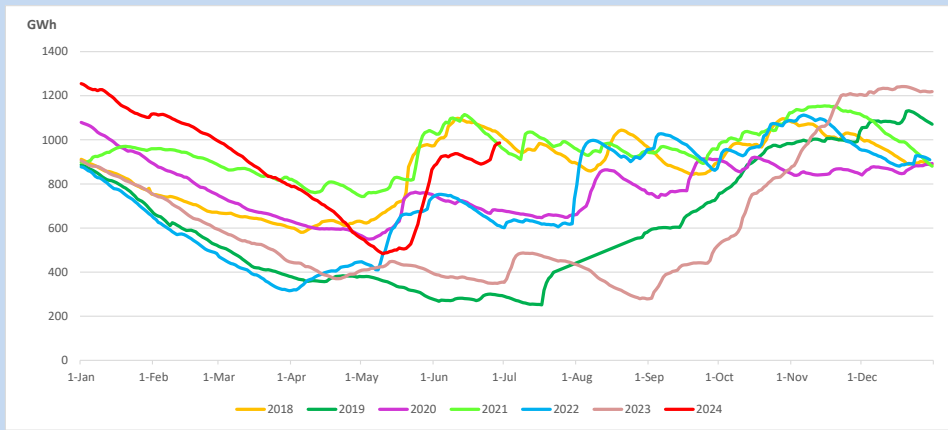
Reservoir Levels -

as at 06.00 Hr on June 29, 2024

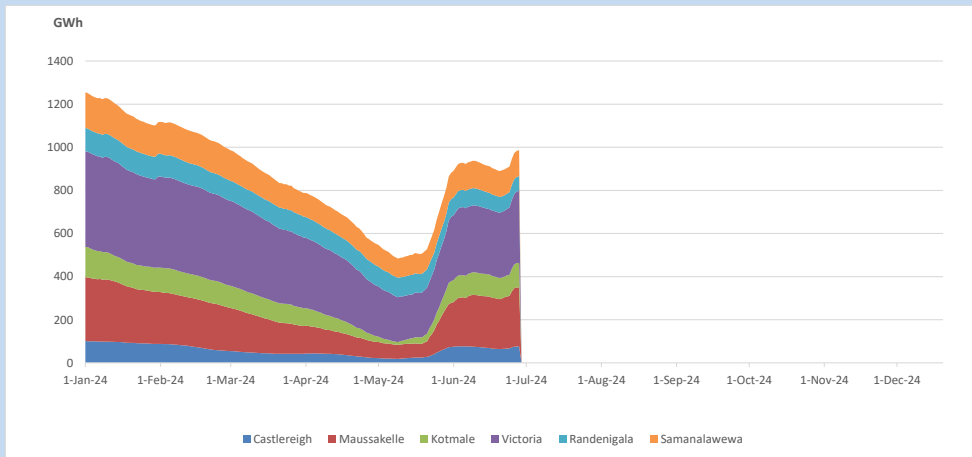


Total Reservoir Level 986.4 GWh
% of Total capacity 77.2%

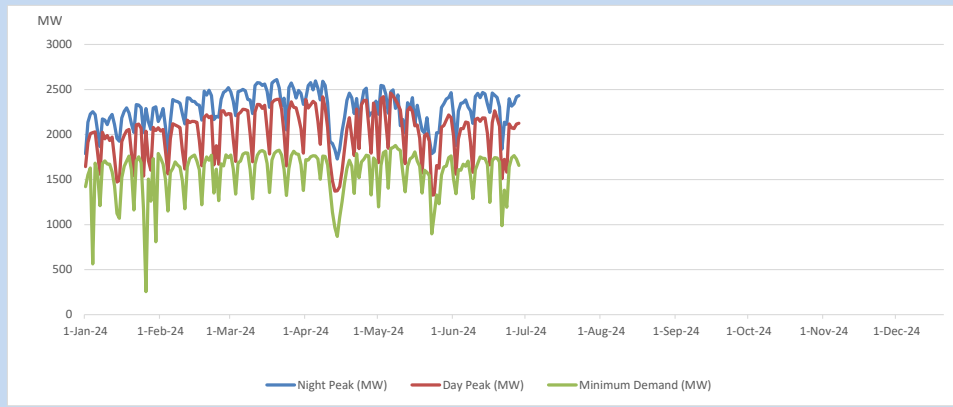
11. Comparison of Total Reservoir Storage Levels with Past Years



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



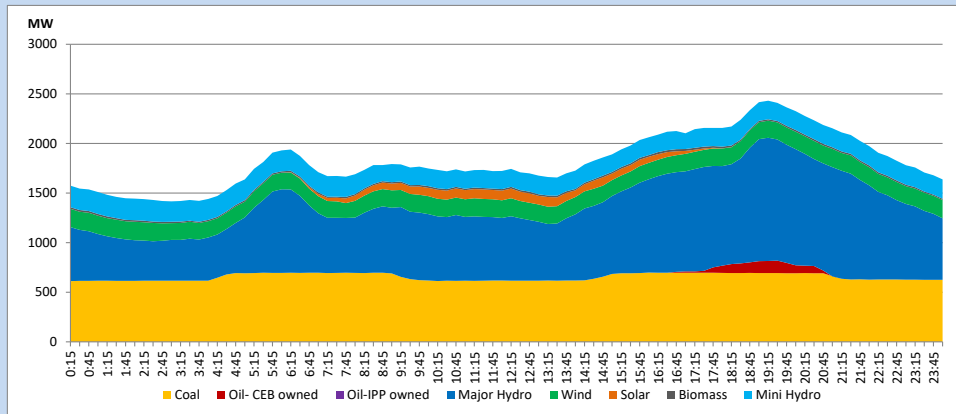
13. Variation of Demand during the current year



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

14. Daily Load Curve

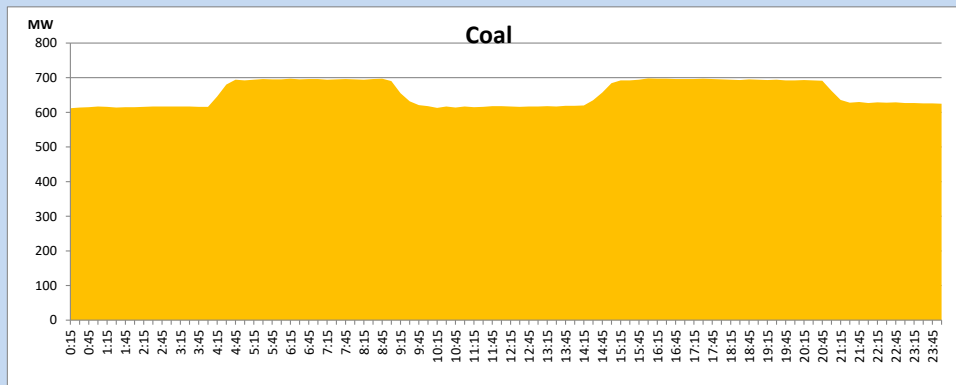
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Solar and wind data is based on Telemetered Power Stations only

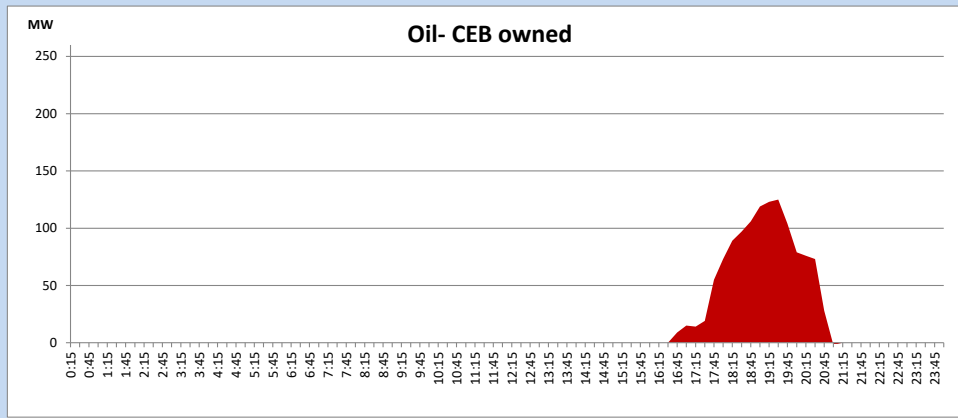
Coal Generation during

June 28, 2024



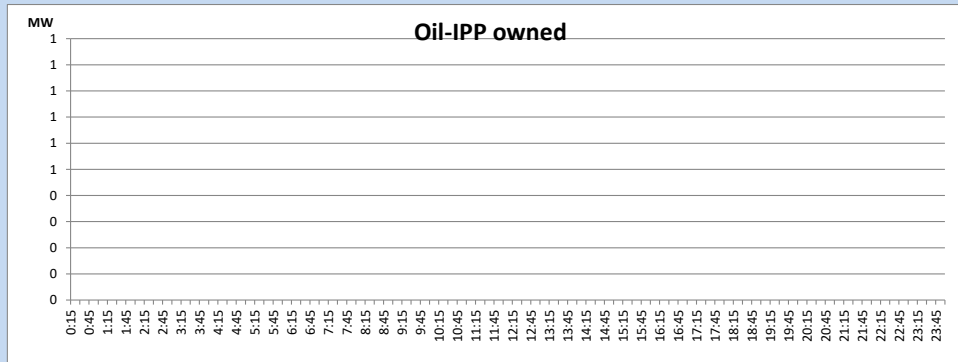
CEB Oil Plant Generation during

June 28, 2024



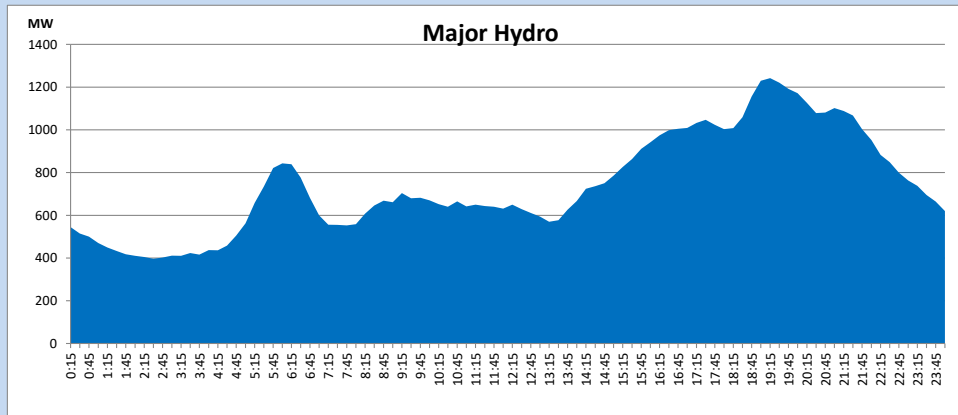
IPP Oil Plant Generation during

June 28, 2024



Major Hydro Generation during

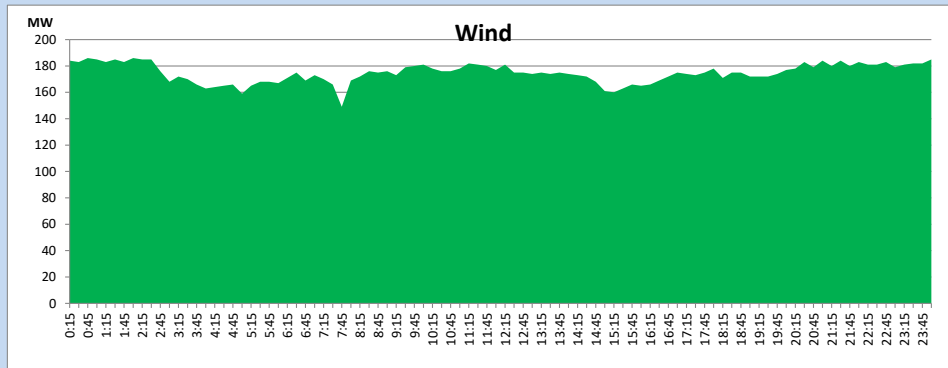
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Wind Generation during

June 28, 2024

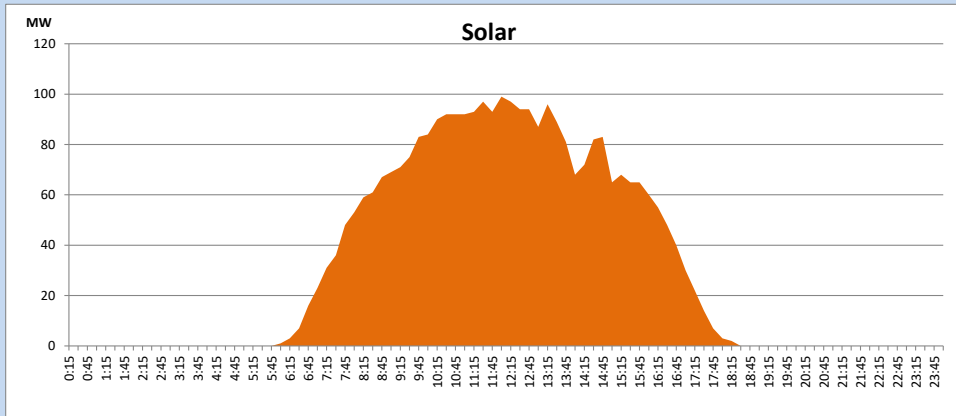
Based on Telemetered Power Stations only



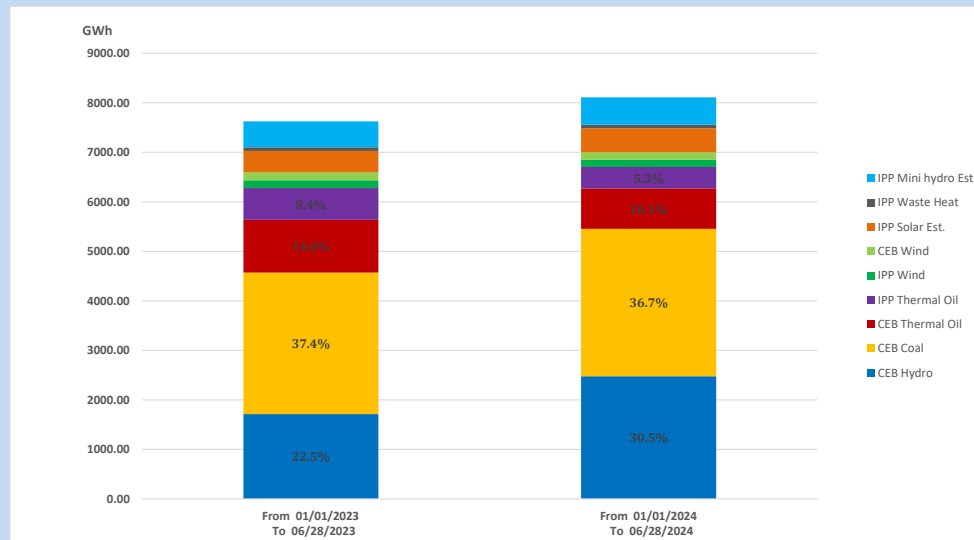
Solar Generation during

June 28, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 06/28/2023

7626 GWh

From 01/01/2024 To 06/28/2024

8111 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 28, 2024

1) Biyagama - Sapugaskanda 132kV cct 02 tripped from both ends at 8:49hrs due to the operation of distance protection. At the same time, Biyagama Statcom and Kelanitissa GT 02 tripped, rejecting 21MVAR and 11MVAR, respectively from the system. Kelanitissa GT 02 and Biyagama - Sapugaskanda cct 02 were restored at 10:16hrs and 18:11hrs, respectively. Biyagama Statcom is yet to be normalized.