

Generation and Reservoirs Statistics

July 16, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

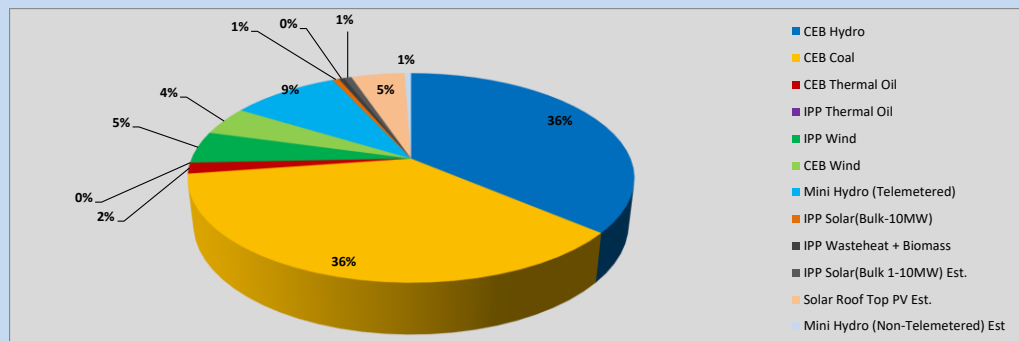


Table 01

	Generation (MWh)
CEB Hydro	16,966
CEB Coal	17,089
CEB Thermal Oil	789
IPP Thermal Oil	-
IPP Wind	2,313
CEB Wind	2,092
Mini Hydro (Telemetered)	4,387
IPP Solar (Bulk)	260
IPP Waste heat + Biomass	219
Total Generation (Excluding estimated figures)	44,115
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	264
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	46,853

* 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	253	34.30%
CEB Coal	234	31.73%
CEB Thermal Oil	61	8.22%
IPP Thermal	18	2.47%
SPP Wind	30	4.08%
CEB Wind	30	4.08%
Mini Hydro *	60	8.17%
IPP Solar *	46	6.26%
IPP Waste heat + BMP	5	0.70%
Total	737	

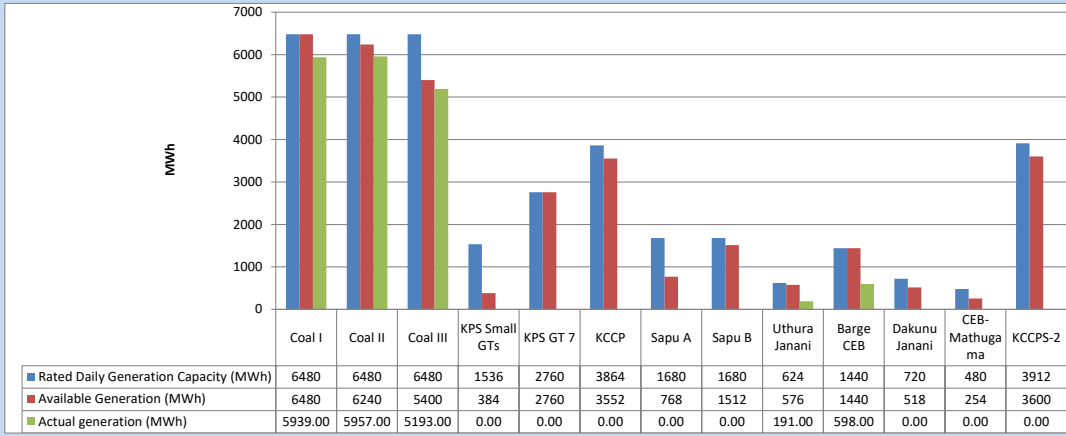
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,760	30.88%
CEB Coal	3,238	36.22%
CEB Thermal Oil	877	9.81%
IPP Thermal	452	5.05%
SPP Wind	182	2.04%
CEB Wind	186	2.08%
Mini Hydro *	609	6.82%
IPP Solar *	553	6.18%
IPP Waste heat	83	0.92%
Total	8,940	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

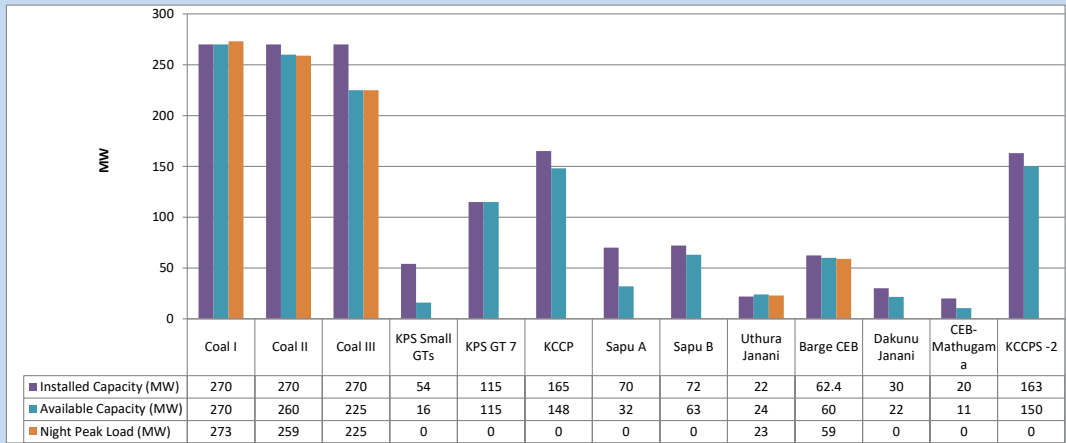
July 16, 2024



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

July 17, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

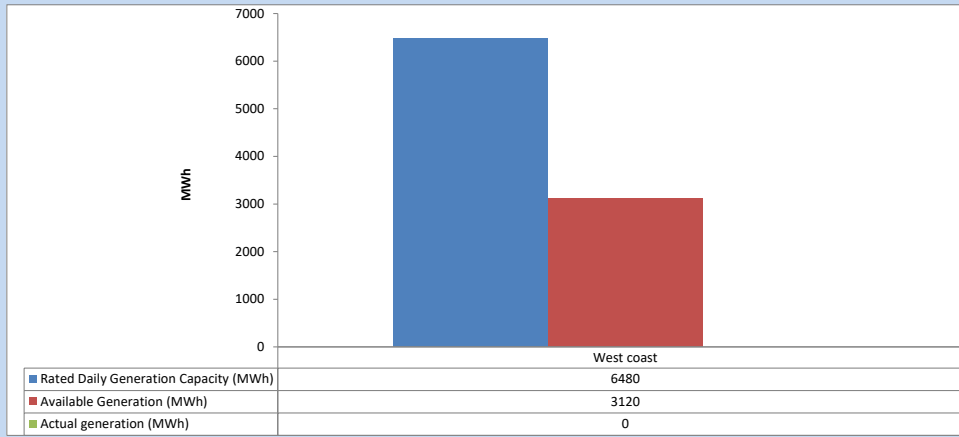


Plant availability is recorded at 6.00 am on

July 17, 2024

5. IPP owned Thermal Plant Dispatch

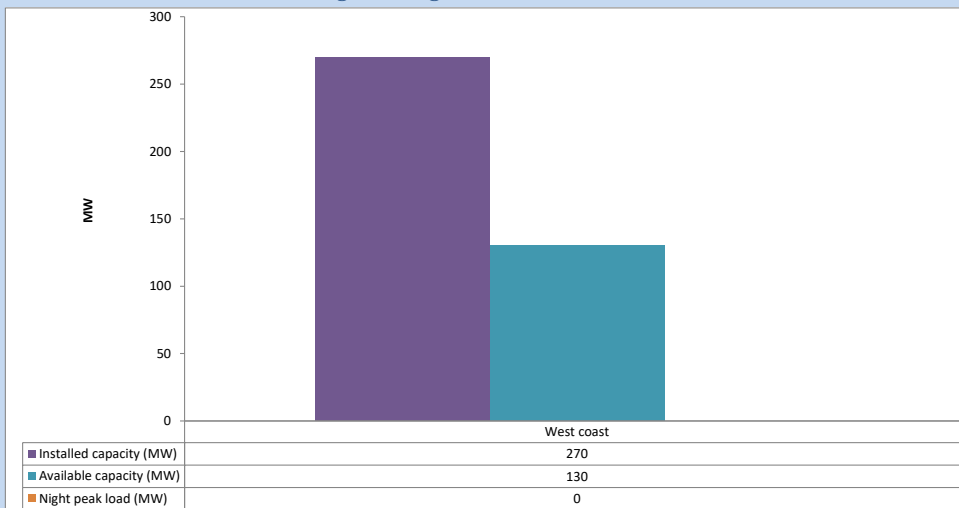
July 16, 2024



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

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6. IPP owned Thermal Plant Loading at the Night Peak

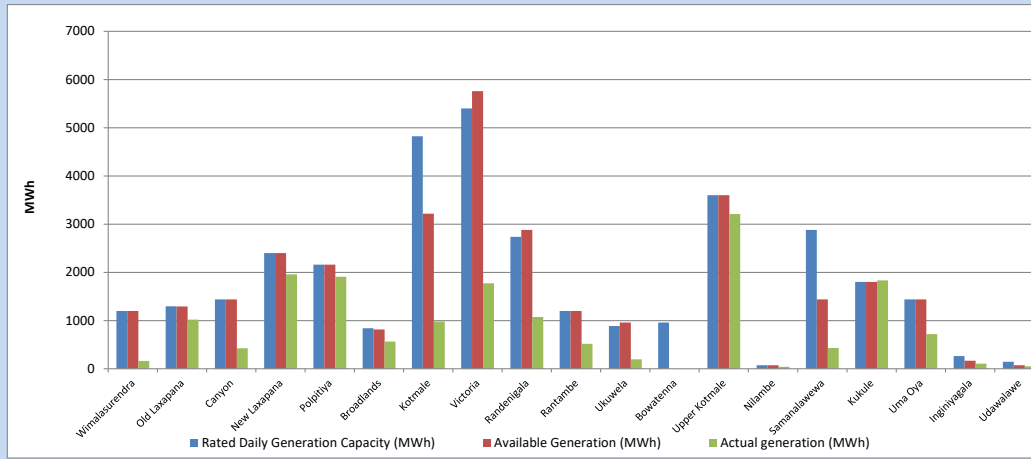


Plant availability is recorded at 6.00 am on

July 17, 2024

7. Major Hydro Plant Dispatch

July 16, 2024

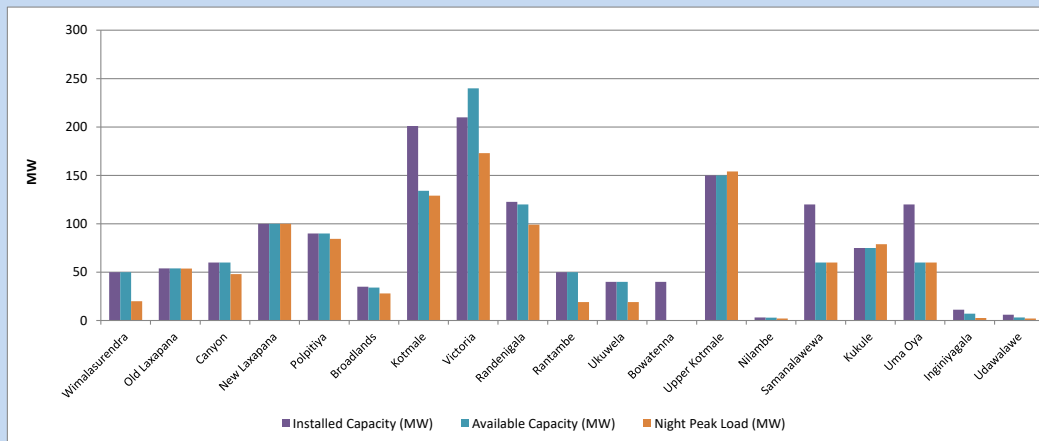


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 17, 2024

8. Major Hydro Plant Loading at Night Peak

July 16, 2024



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

July 17, 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	20	163
Old Laxapana	54	54	54	1,019
Canyon	60	60	48	424
New Laxapana	100	100	100	1,960
Polpitiya	90	90	84	1,910
Broadlands	35	34	28	565
Kotmale	201	134	129	980
Victoria	210	240	173	1,772
Randenigala	123	120	99	1,072
Rantambe	50	50	19	517
Ukuwela	40	40	19	195
Bowatenna	40	0	0	0
Upper Kotmale	150	150	154	3,209
Nilambe	3	3	2	41
Samanalawewa	120	60	60	432
Kukule	75	75	79	1,832
Uma Oya	120	60	60	718
Inginiyagala	11	7	3	107
Udawalawe	6	3	2	52
Puttalam Coal I	270	270	273	5,939
Puttalam Coal II	270	260	259	5,957
Puttalam Coal III	270	225	225	5,193
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	0	0
Uthura Janani	22	24	23	191
Barge CEB	62	60	59	598
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
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,855	2,369	44,117

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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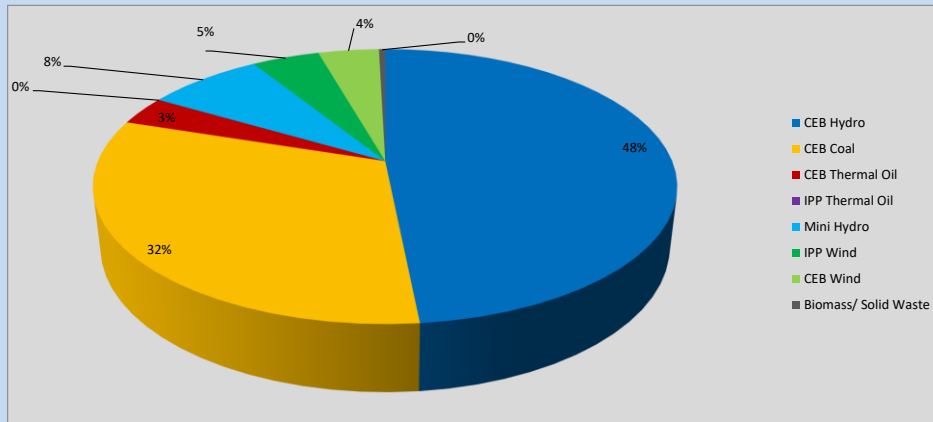


Table 06

CEB Hydro	1161	MW
CEB Coal	757	MW
CEB Thermal Oil	82	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	184	MW
IPP Wind	107	MW
CEB Wind	96.4	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

Table 07

Night Peak*	2,398	MW
Day Peak Maximum Demand	2,091	MW
Day Peak Minimum Demand	1,701	MW
Off Peak Minimum Demand	1,376	MW

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

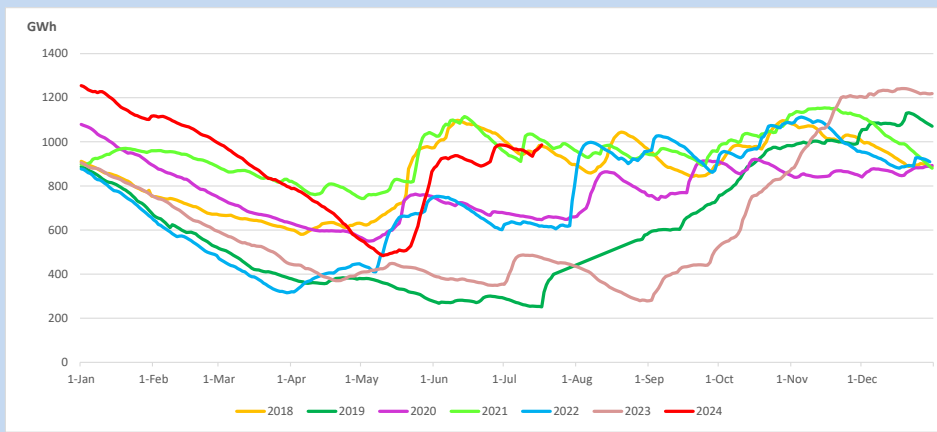
Reservoir Levels -

as at 06.00 Hr on July 17, 2024

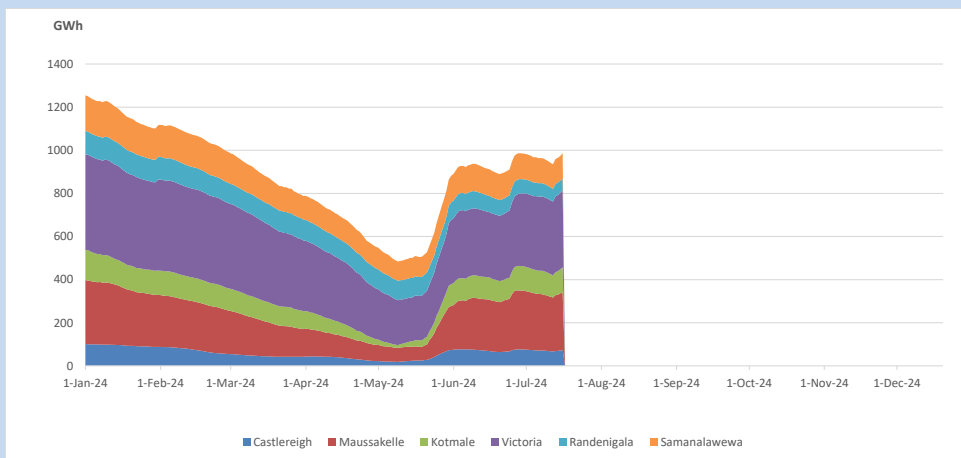


Total Reservoir Level 986.2 GWh
% of Total capacity 77.1%

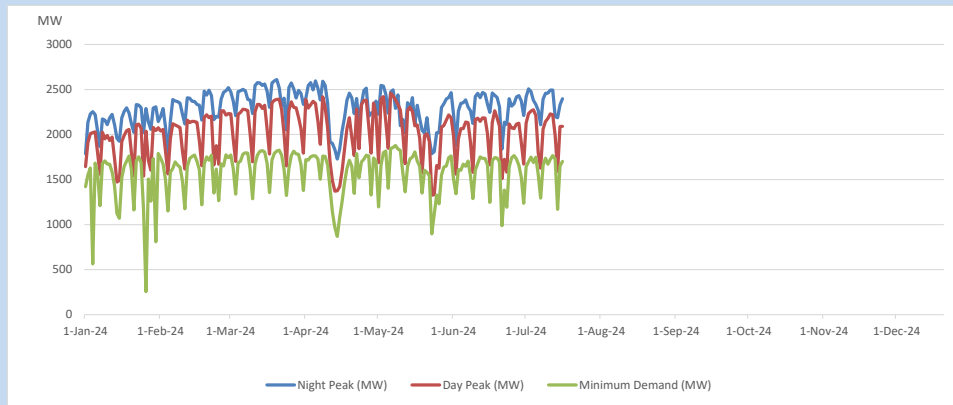
11. Comparison of Total Reservoir Storage Levels with Past Years



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



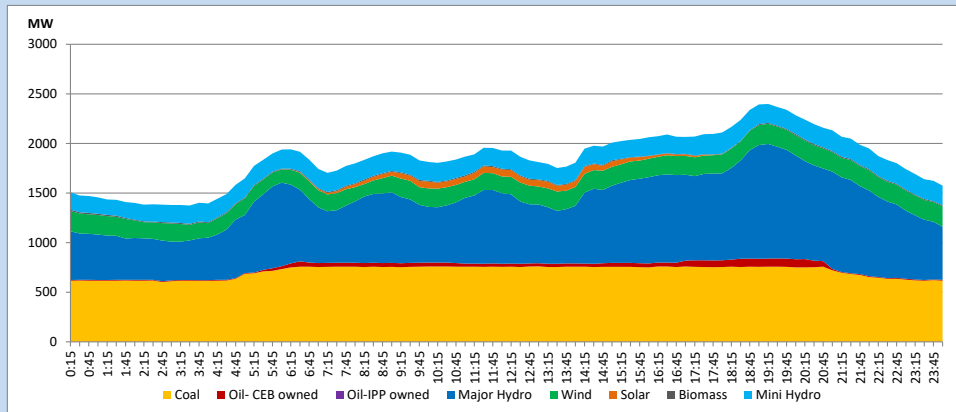
13. Variation of Demand during the current year



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

14. Daily Load Curve

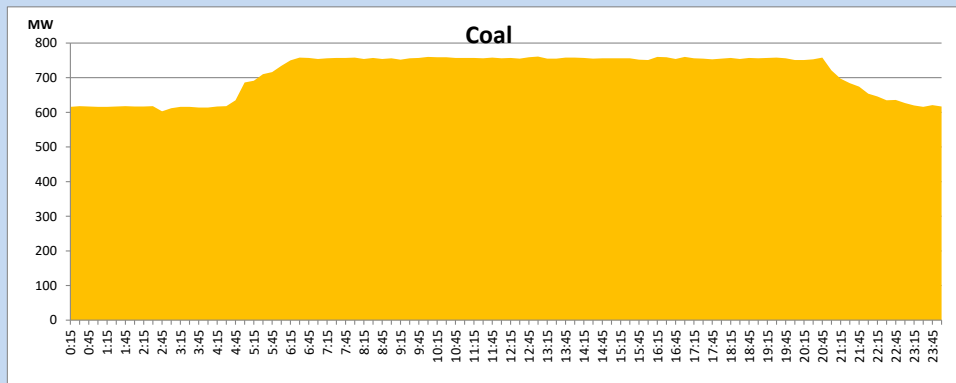
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Solar and wind data is based on Telemetered Power Stations only

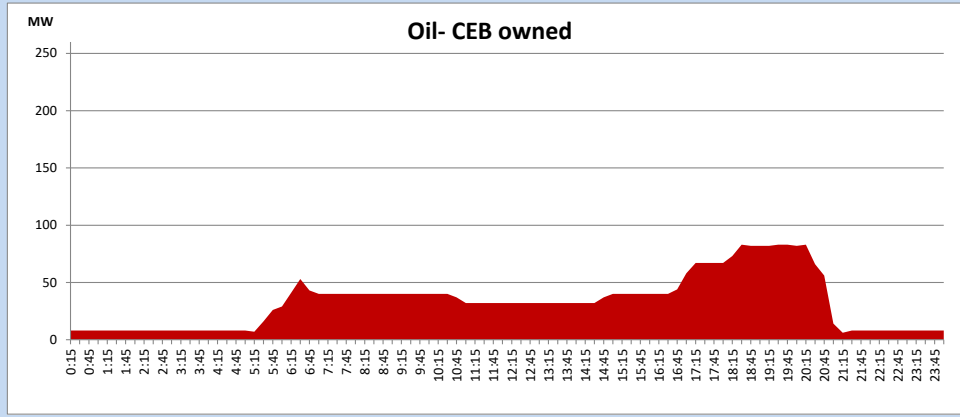
Coal Generation during

July 16, 2024



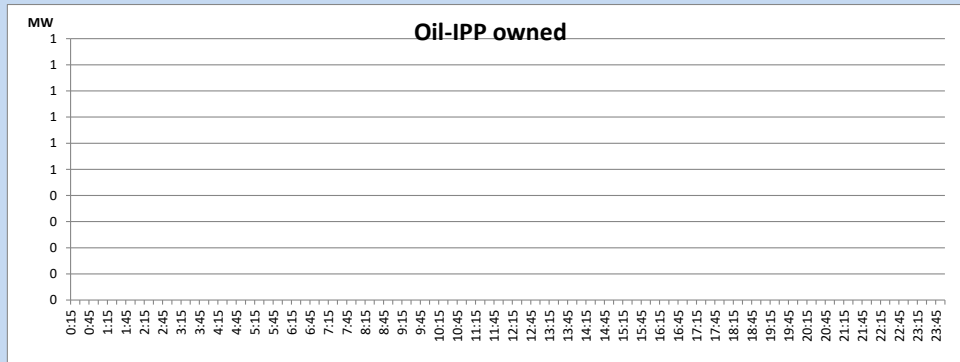
CEB Oil Plant Generation during

July 16, 2024



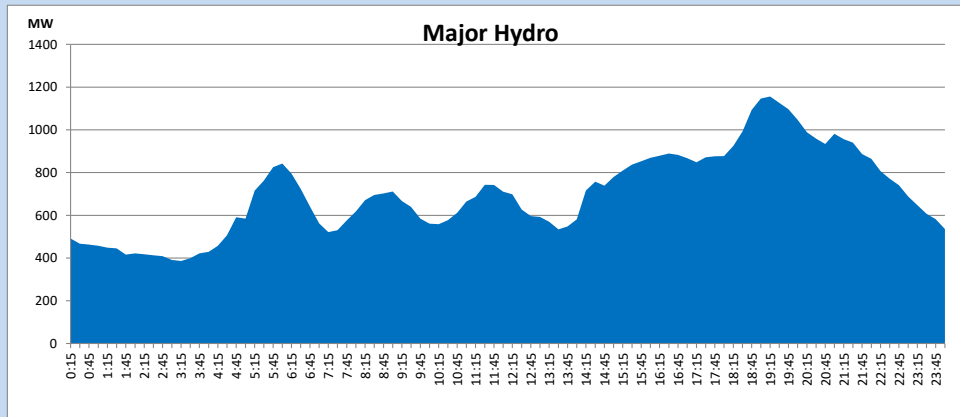
IPP Oil Plant Generation during

July 16, 2024



Major Hydro Generation during

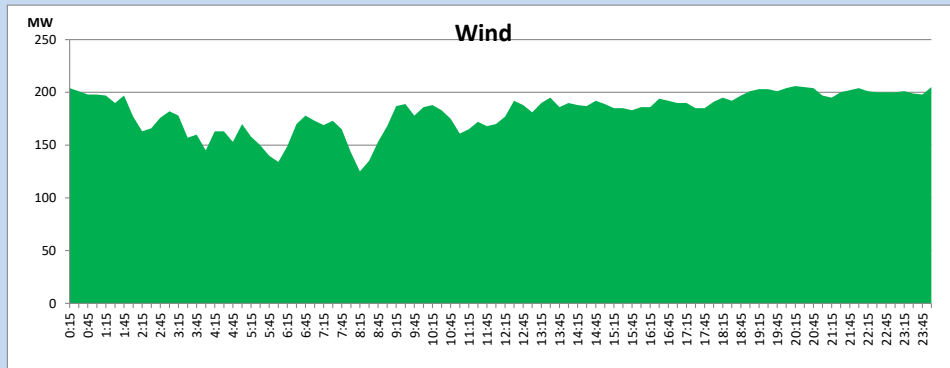
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Wind Generation during

July 16, 2024

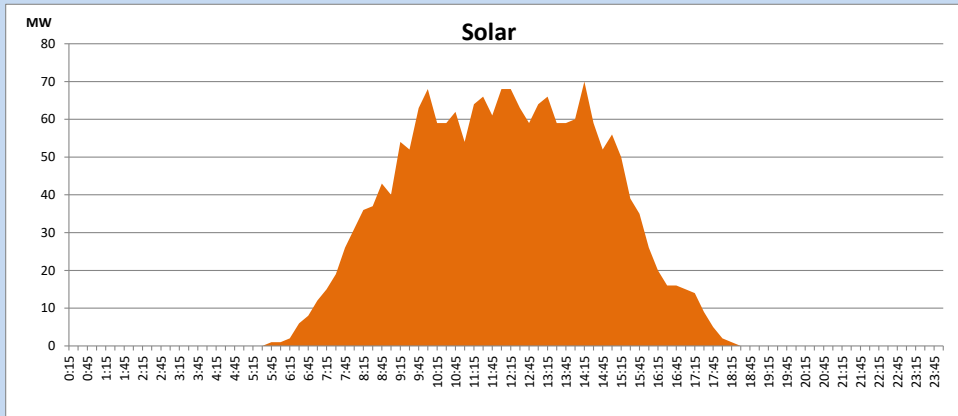
Based on Telemetered Power Stations only



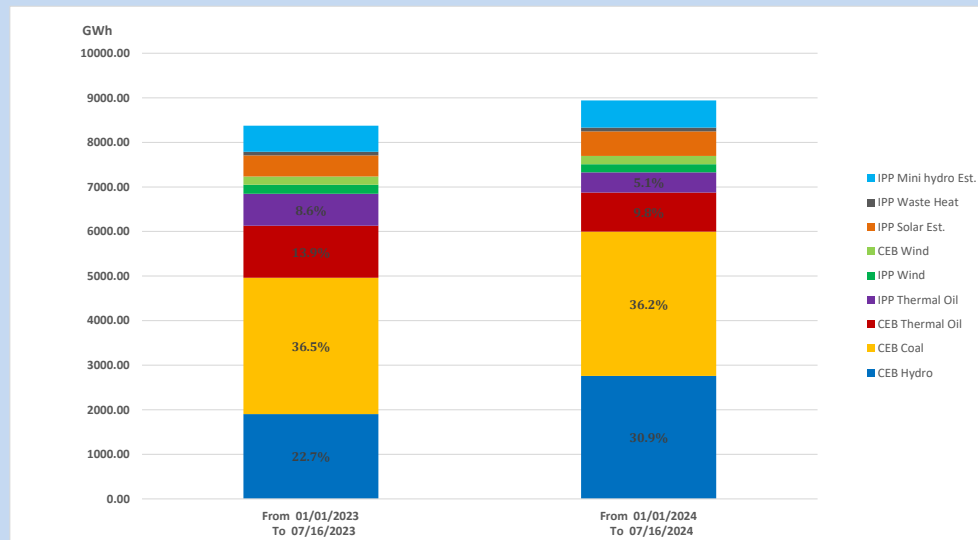
Solar Generation during

July 16, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 07/16/2023
 From 01/01/2024 To 07/16/2024

8374 GWh
 8940 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

July 16, 2024

- 1) Valachchenai 132/33kV T/F 01 tripped from both ends at 9:53hrs, indicating the master trip at the 33kV side. At the same time, Valachchenai Feeder 04 tripped and A/R due to the operation of E/F protection. The T/F normalized at 10:00hrs.
- 2) Victoria unit 02 was made available after A/M at 12:50hrs.
- 3) Ukuwela unit 02 is not available from 18:20hrs due to MIV failure. The unit was made available at 23:03hrs.
- 4) Victoria Unit 02 tripped at 19:19hrs rejecting 50MW from the system due to lower guide bearing high temperature. The unit resumed generation at 19:43hrs.