

Generation and Reservoirs Statistics

July 2, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

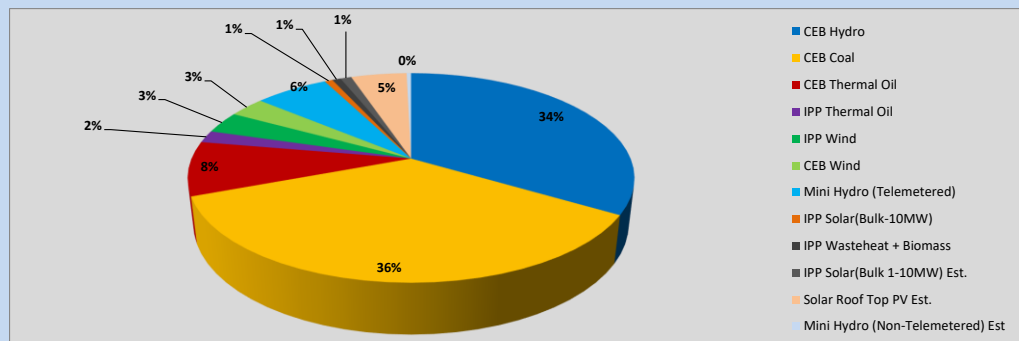


Table 01

	Generation (MWh)
CEB Hydro	16,099
CEB Coal	17,256
CEB Thermal Oil	4,026
IPP Thermal Oil	905
IPP Wind	1,616
CEB Wind	1,502
Mini Hydro (Telemetered)	3,068
IPP Solar (Bulk)	336
IPP Waste heat + Biomass	353
Total Generation (Excluding estimated figures)	45,161
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	185
* Estimated IPP Solar PV (Bulk 1-10MW)	457
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	48,123

* 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	33	34.35%
CEB Coal	34	35.54%
CEB Thermal Oil	7	7.06%
IPP Thermal	1	1.56%
SPP Wind	3	3.64%
CEB Wind	4	3.84%
Mini Hydro *	7	6.85%
IPP Solar *	6	6.43%
IPP Waste heat + BMP	1	0.72%
Total	95	

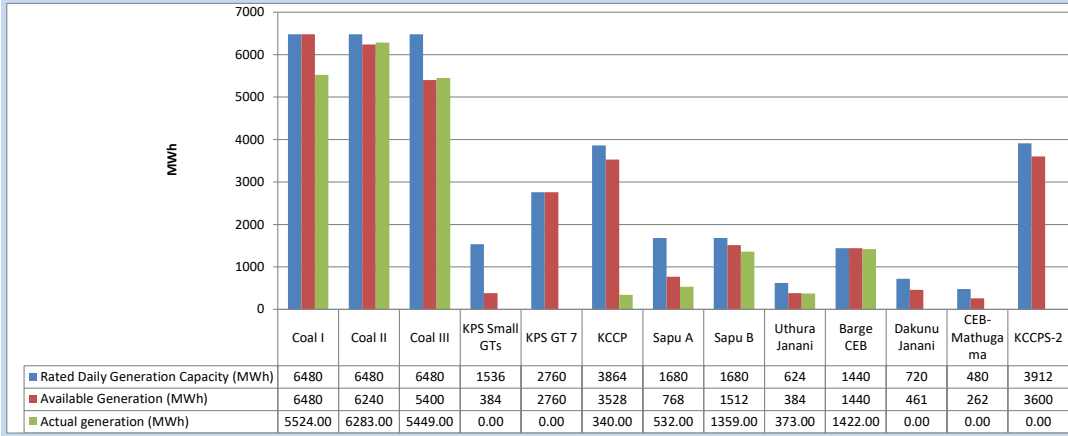
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,542	30.66%
CEB Coal	3,038	36.65%
CEB Thermal Oil	824	9.93%
IPP Thermal	434	5.24%
SPP Wind	154	1.86%
CEB Wind	160	1.93%
Mini Hydro *	568	6.85%
IPP Solar *	497	6.00%
IPP Waste heat	74	0.89%
Total	8,291	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

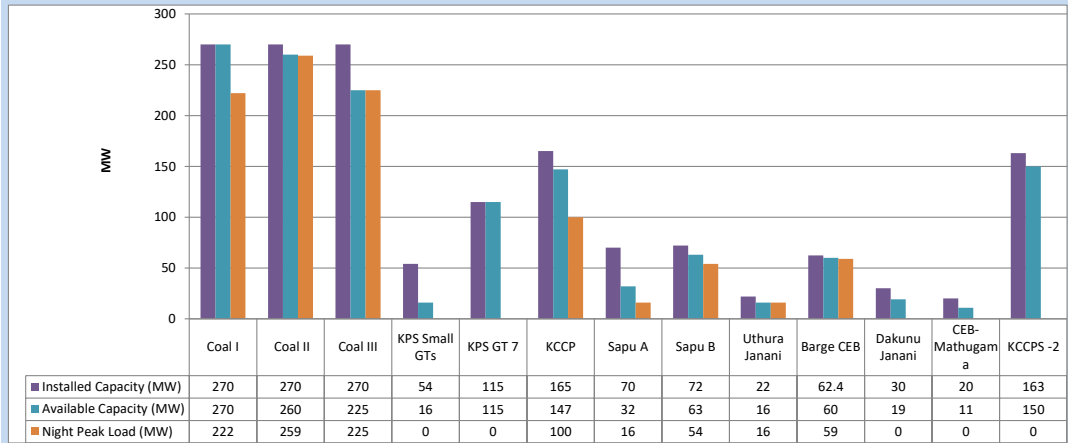
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Available Generation is estimated based on plant availability at 6.00am on

July 3, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

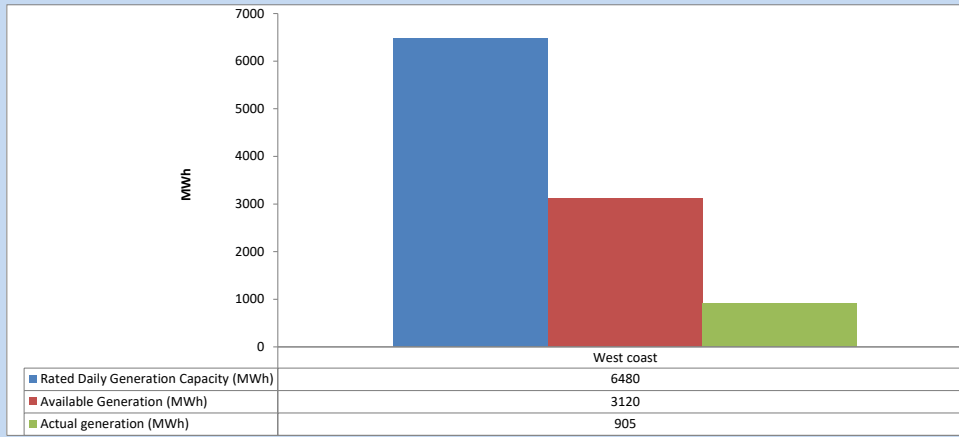


Plant availability is recorded at 6.00 am on

July 3, 2024

5. IPP owned Thermal Plant Dispatch

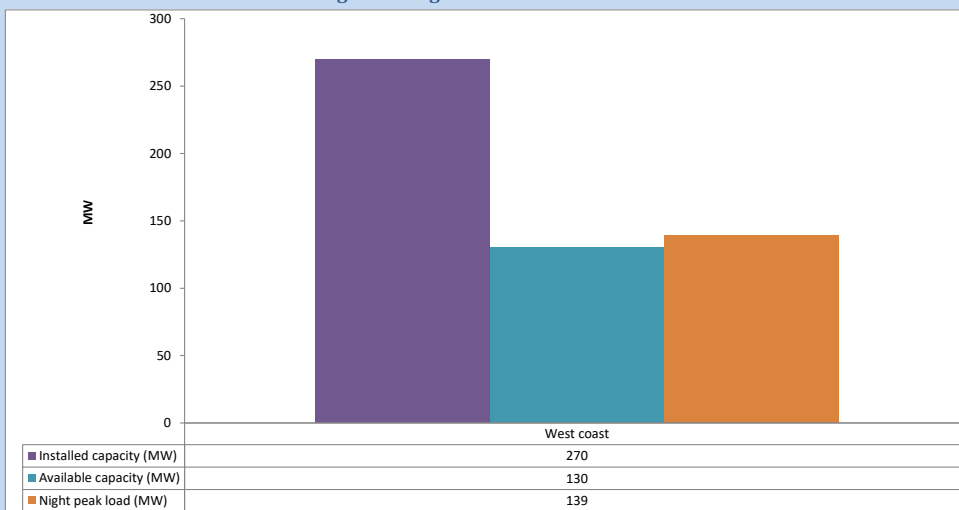
July 2, 2024



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

July 3, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

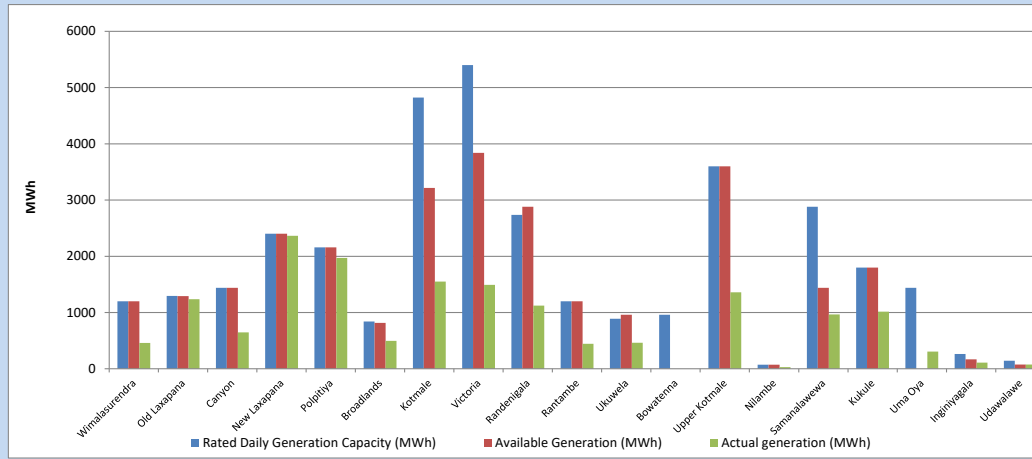


Plant availability is recorded at 6.00 am on

July 3, 2024

7. Major Hydro Plant Dispatch

July 2, 2024

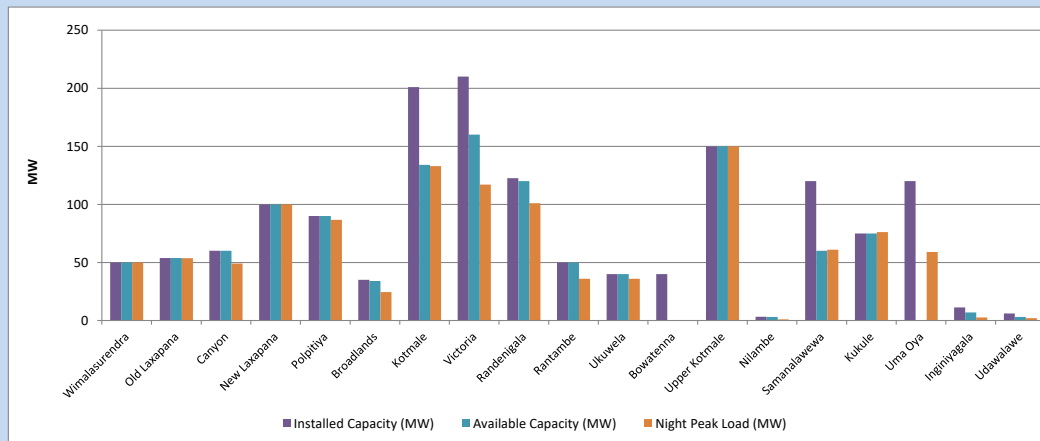


Available Generation is estimated based on plant availability at 6.00am on July 3, 2024
Broadlands power plant is operating in the Commissioning Stage

July 3, 2024

8. Major Hydro Plant Loading at Night Peak

July 2, 2024



Plant availability is recorded at 6.00 am on July 3, 2024
Broadlands power plant is operating in the Commissioning Stage

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	459
Old Laxapana	54	54	54	1,236
Canyon	60	60	49	646
New Laxapana	100	100	100	2,364
Polpitiya	90	90	87	1,970
Broadlands	35	34	25	495
Kotmale	201	134	133	1,550
Victoria	210	160	117	1,493
Randenigala	123	120	101	1,122
Rantambe	50	50	36	443
Ukuwela	40	40	36	461
Bowatenna	40	0	0	0
Upper Kotmale	150	150	150	1,360
Nilambe	3	3	1	30
Samanalawewa	120	60	61	967
Kukule	75	75	76	1,015
Uma Oya (Testing)	120	0	59	305
Inginiyagala	11	7	3	108
Udawalawe	6	3	2	75
Puttalam Coal I	270	270	222	5,524
Puttalam Coal II	270	260	259	6,283
Puttalam Coal III	270	225	225	5,449
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	100	340
Sapugaskanda A	70	32	16	532
Sapugaskanda B	72	63	54	1,359
Uthura Janani	22	16	16	373
Barge CEB	62	60	59	1,422
CEB-Hambantota	30	19	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	139	905
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,704	2,502	45,161

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

July 2, 2024

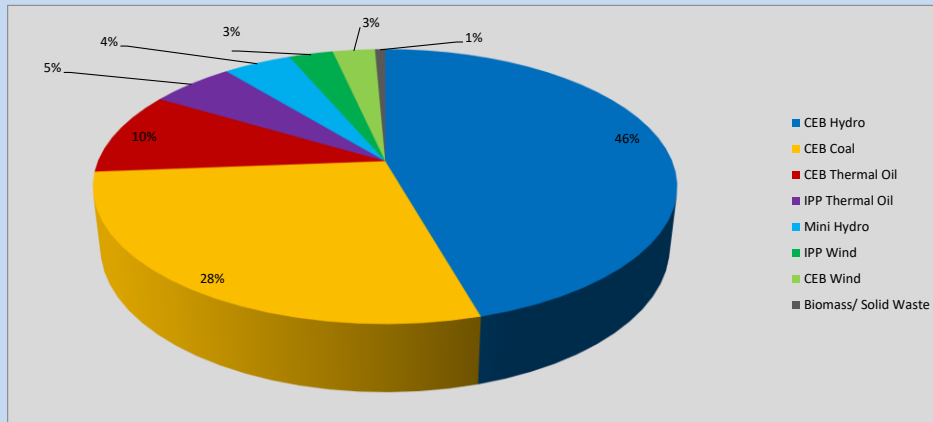


Table 06

CEB Hydro	1143	MW
CEB Coal	706	MW
CEB Thermal Oil	245	MW
IPP Thermal Oil	139	MW
Mini Hydro (Telemetered)	113	MW
IPP Wind	73.4	MW
CEB Wind	70.1	MW
Biomass/ Solid Waste	17	MW

Recorded Peak Demand Data

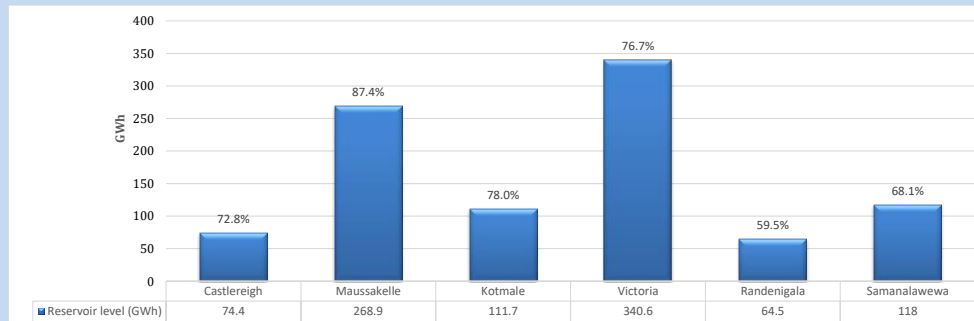
Table 07

Night Peak*	2,507	MW
Day Peak Maximum Demand	2,233	MW
Day Peak Minimum Demand	1,698	MW
Off Peak Minimum Demand	1,443	MW

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

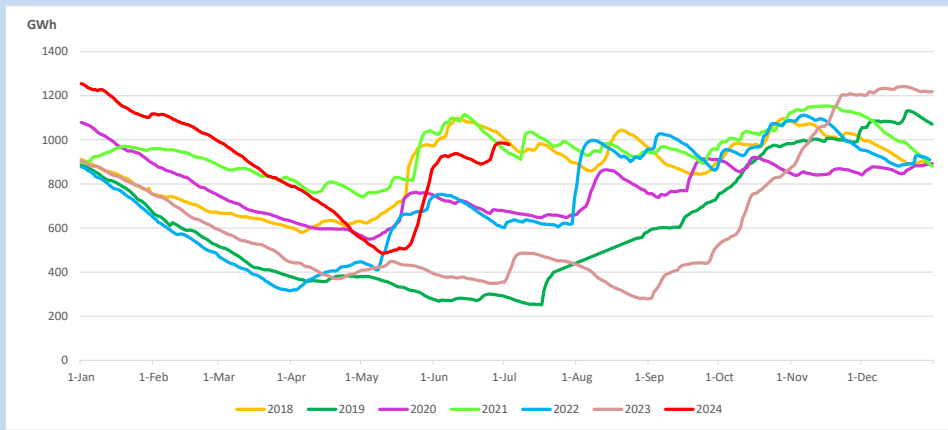
Reservoir Levels -

as at 06.00 Hr on July 3, 2024

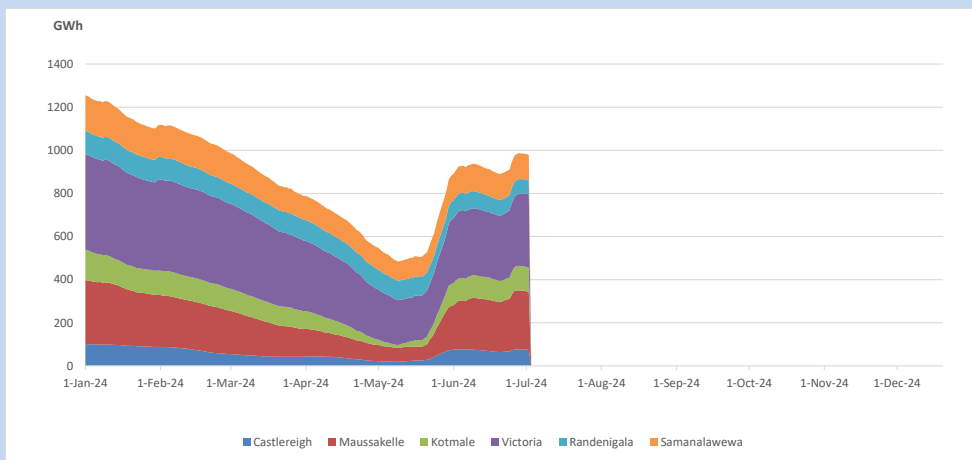


Total Reservoir Level 978.1 GWh
% of Total capacity 76.5%

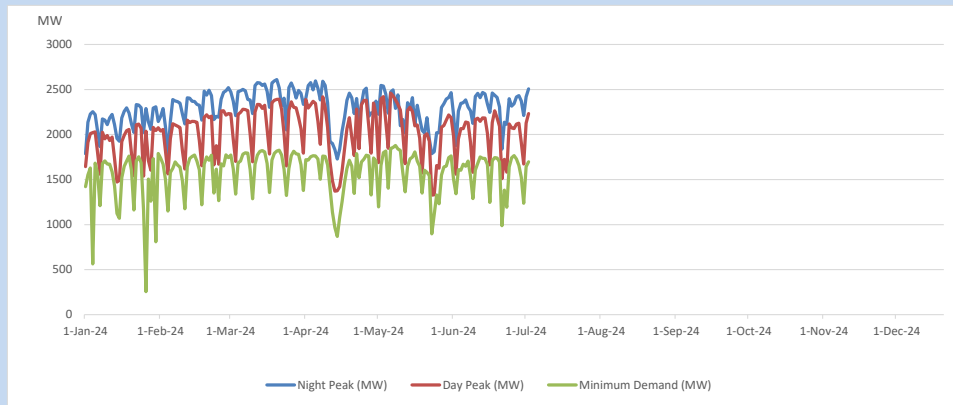
11. Comparison of Total Reservoir Storage Levels with Past Years



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



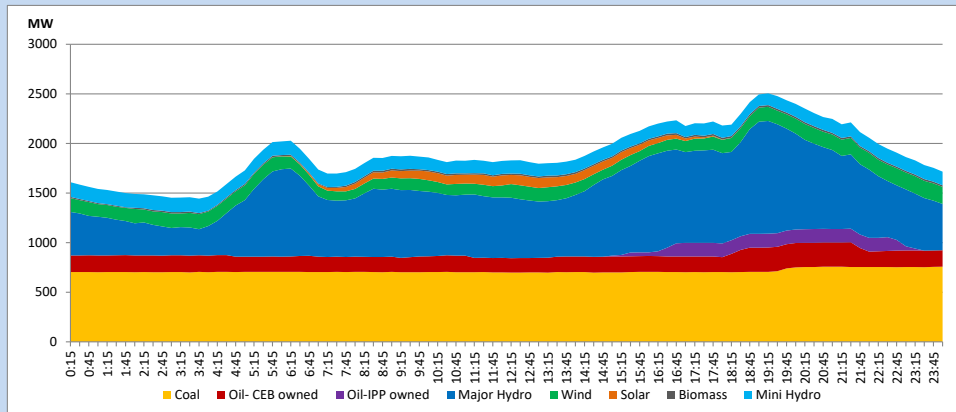
13. Variation of Demand during the current year



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

14. Daily Load Curve

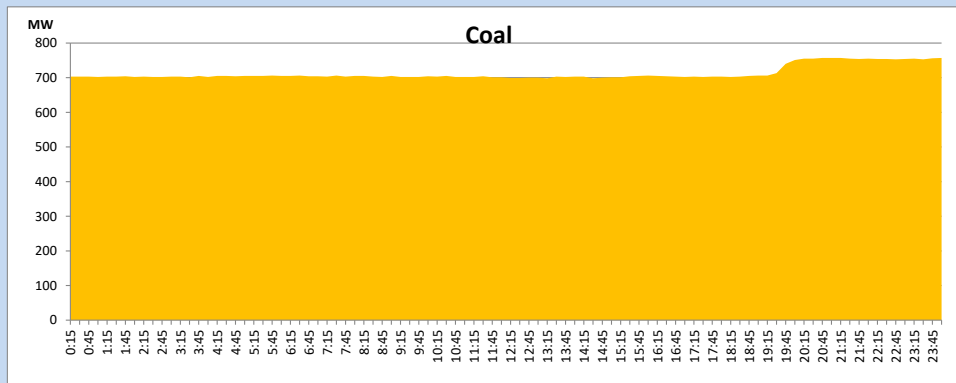
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Solar and wind data is based on Telemetered Power Stations only

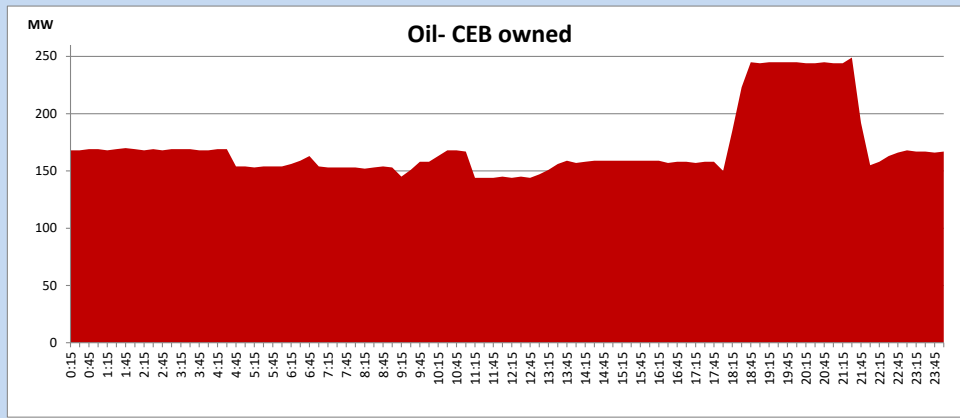
Coal Generation during

July 2, 2024



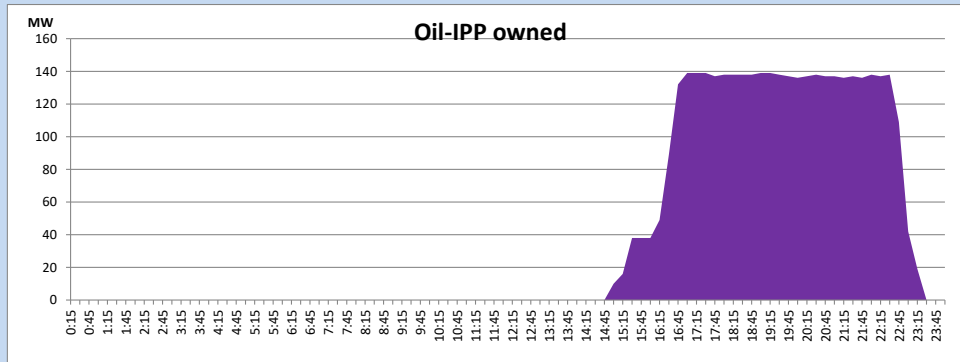
CEB Oil Plant Generation during

July 2, 2024



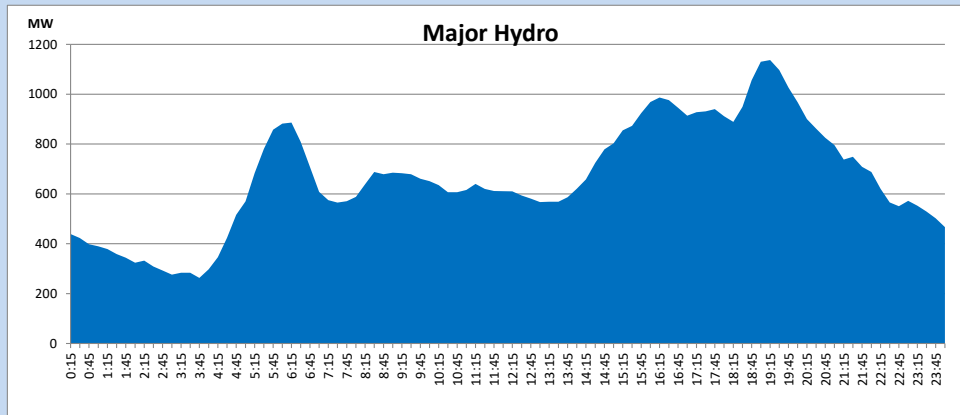
IPP Oil Plant Generation during

July 2, 2024



Major Hydro Generation during

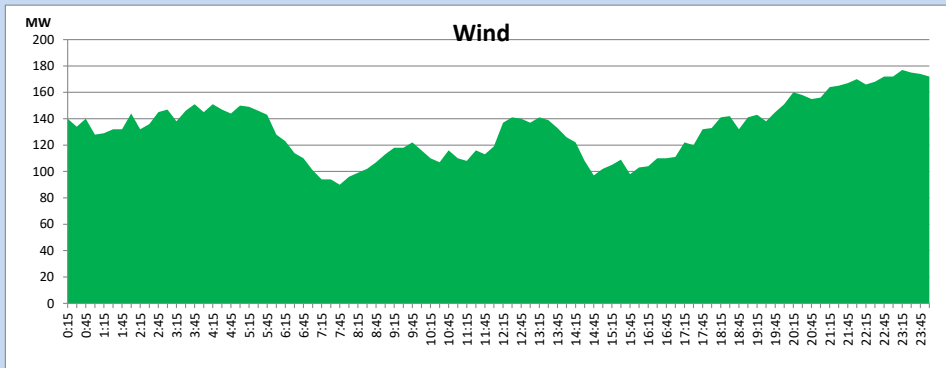
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Wind Generation during

July 2, 2024

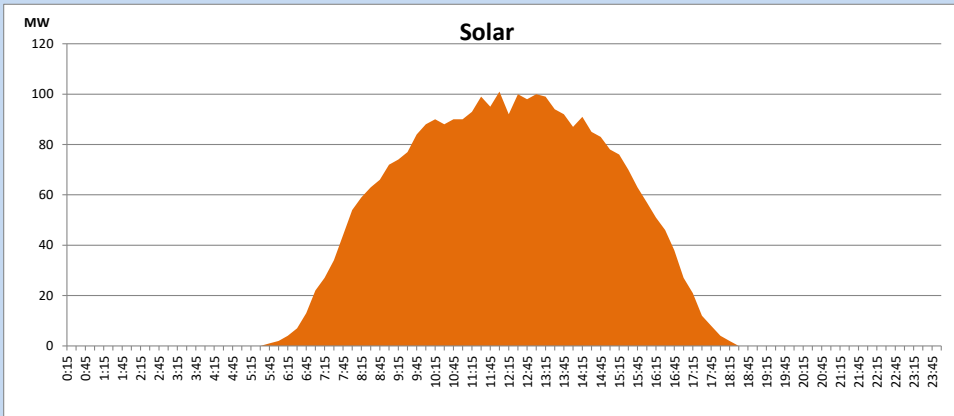
Based on Telemetered Power Stations only



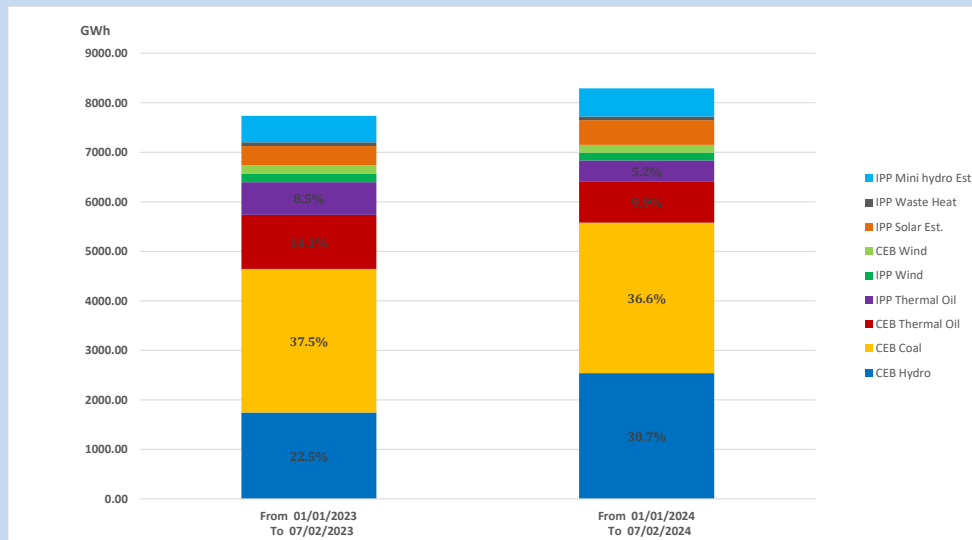
Solar Generation during

July 2, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/02/2023

7738 GWh

From 01/01/2024 To 07/02/2024

8291 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

July 2, 2024

- 1) New Chilaw 220/132kV T/F 02, which was tripped on 01.07.2024, was normalized at 09:28hrs.
- 2) Valachchenai 132/33kV T/F 01 tripped from both ends at 10:29hrs, indicating the master trip at the 33kV side. At the same time, Valachchenai Feeder 01 tripped and A/R due to the operation of O/C protection. The T/F was normalized at 10:52hrs.
- 3) LVPS unit 01 reached full load 270MW (net) at 20:11hrs, after repairing CW pump.