

Generation and Reservoirs Statistics

July 10, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

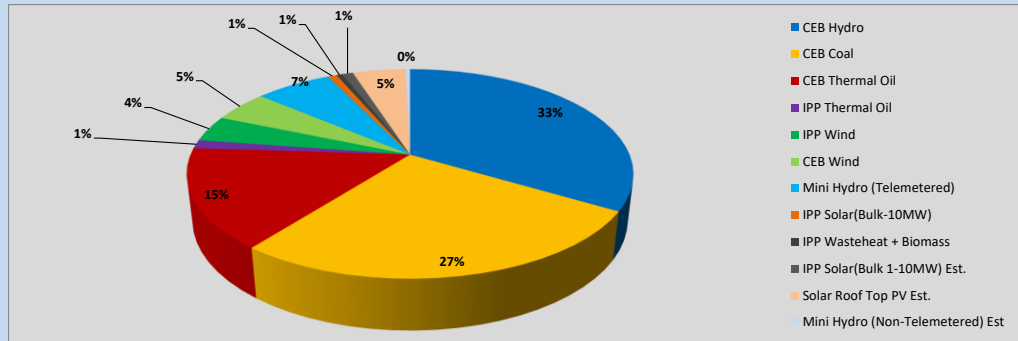


Table 01

	Generation (MWh)
CEB Hydro	15,878
CEB Coal	12,830
CEB Thermal Oil	7,327
IPP Thermal Oil	616
IPP Wind	1,912
CEB Wind	2,289
Mini Hydro (Telemetered)	3,131
IPP Solar (Bulk)	369
IPP Waste heat + Biomass	245
Total Generation (Excluding estimated figures)	44,597
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	189
* Estimated IPP Solar PV (Bulk 1-10MW)	444
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	47,400

* 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	161	34.76%
CEB Coal	140	30.28%
CEB Thermal Oil	40	8.68%
IPP Thermal	15	3.21%
SPP Wind	18	3.80%
CEB Wind	19	4.10%
Mini Hydro *	37	8.08%
IPP Solar *	29	6.30%
IPP Waste heat + BMP	4	0.80%
Total	462	

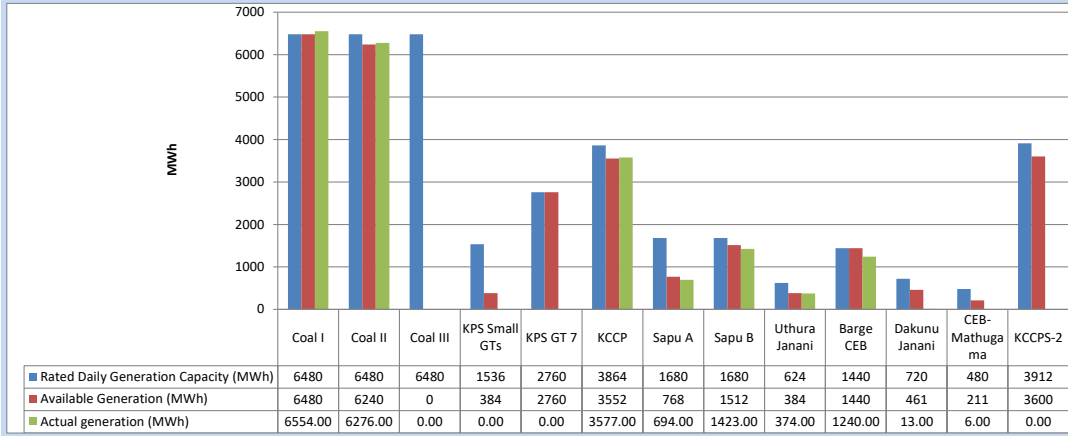
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,668	30.79%
CEB Coal	3,144	36.29%
CEB Thermal Oil	857	9.89%
IPP Thermal	448	5.18%
SPP Wind	170	1.96%
CEB Wind	175	2.02%
Mini Hydro *	586	6.77%
IPP Solar *	536	6.18%
IPP Waste heat	81	0.94%
Total	8,666	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

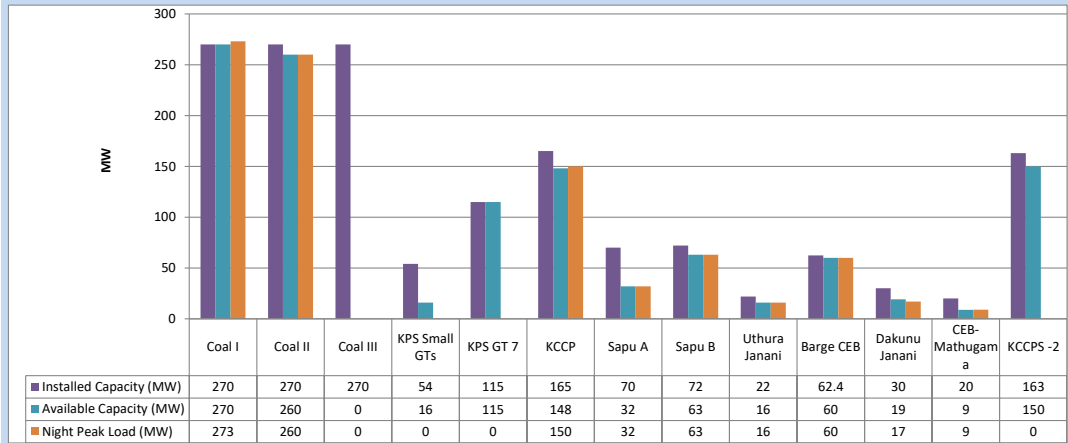
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Available Generation is estimated based on plant availability at 6.00am on

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4. CEB owned Thermal Plant Loading at the Night Peak

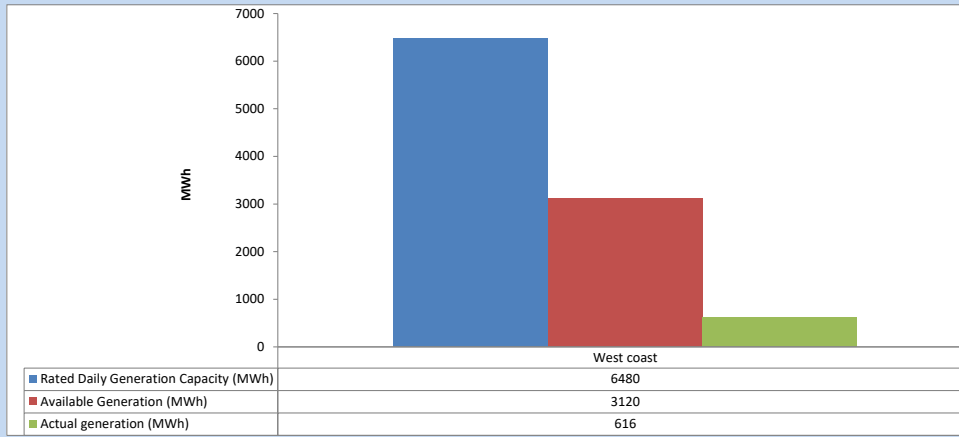


Plant availability is recorded at 6.00 am on

July 11, 2024

5. IPP owned Thermal Plant Dispatch

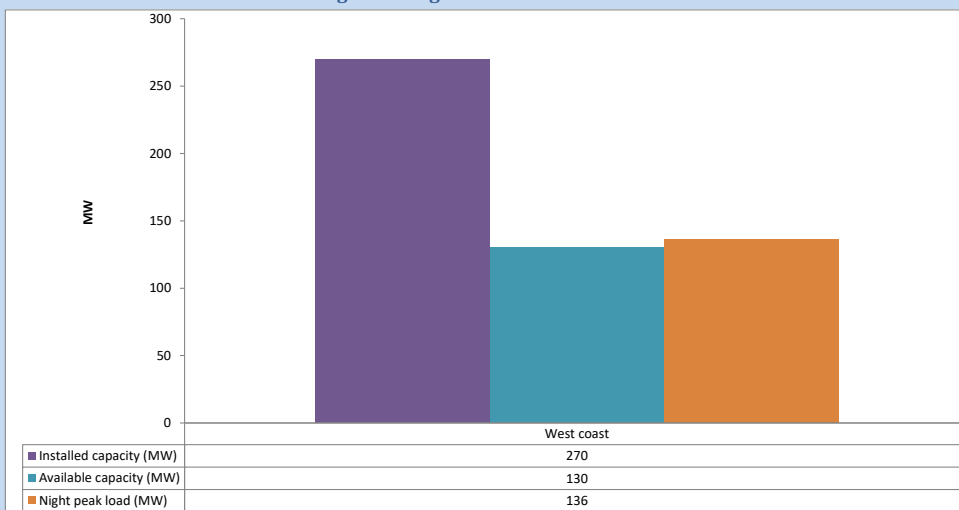
July 10, 2024



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

July 11, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

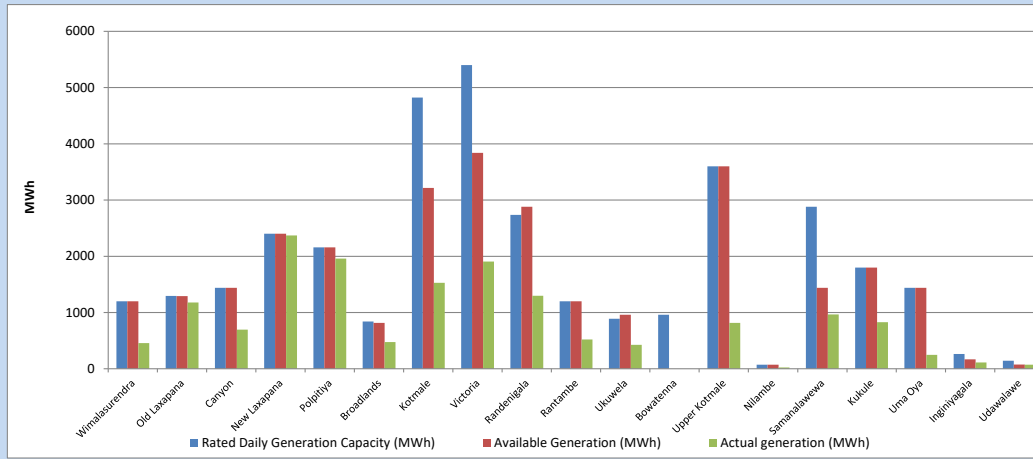


Plant availability is recorded at 6.00 am on

July 11, 2024

7. Major Hydro Plant Dispatch

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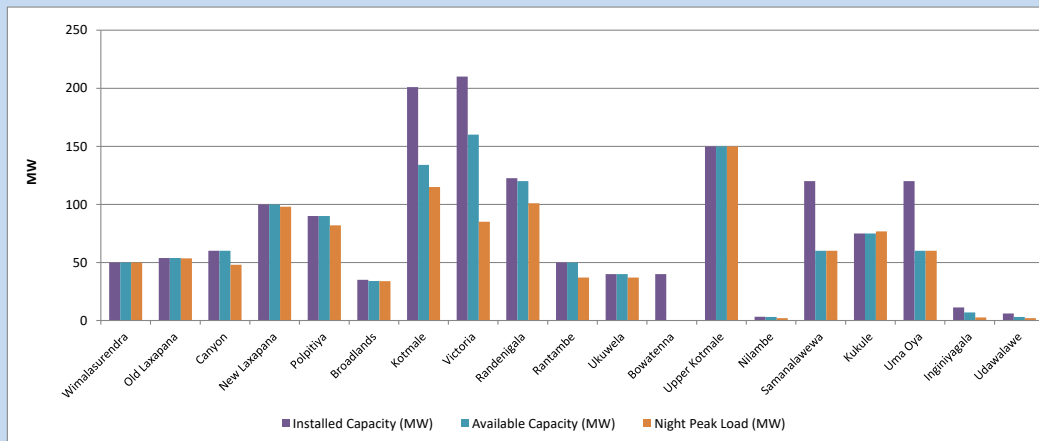


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 11, 2024

8. Major Hydro Plant Loading at Night Peak

July 10, 2024



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

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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	456
Old Laxapana	54	54	54	1,178
Canyon	60	60	48	695
New Laxapana	100	100	98	2,371
Polpitiya	90	90	82	1,960
Broadlands	35	34	34	476
Kotmale	201	134	115	1,530
Victoria	210	160	85	1,906
Randenigala	123	120	101	1,297
Rantambe	50	50	37	522
Ukuwela	40	40	37	425
Bowatenna	40	0	0	0
Upper Kotmale	150	150	150	816
Nilambe	3	3	2	22
Samanalawewa	120	60	60	965
Kukule	75	75	77	829
Uma Oya (Testing)	120	60	60	248
Inginiyagala	11	7	3	111
Udawalawe	6	3	2	72
Puttalam Coal I	270	270	273	6,554
Puttalam Coal II	270	260	260	6,276
Puttalam Coal III	270	0	0	0
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	150	3,577
Sapugaskanda A	70	32	32	694
Sapugaskanda B	72	63	63	1,423
Uthura Janani	22	16	16	374
Barge CEB	62	60	60	1,240
CEB-Hambantota	30	19	17	13
CEB-Mathugama	20	9	9	6
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	136	616
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,538	2,447	44,598

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 10, 2024

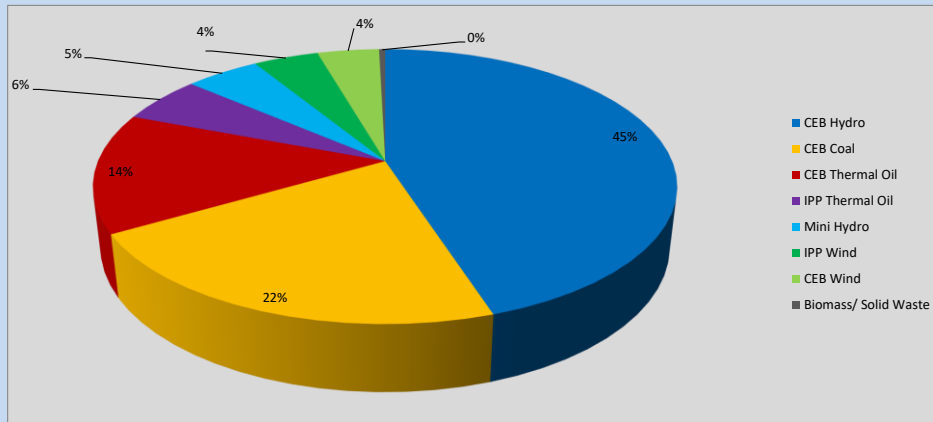


Table 06

CEB Hydro	1106	MW
CEB Coal	533	MW
CEB Thermal Oil	347	MW
IPP Thermal Oil	136	MW
Mini Hydro (Telemetered)	121	MW
IPP Wind	105.8	MW
CEB Wind	100.6	MW
Biomass/ Solid Waste	10	MW

Recorded Peak Demand Data

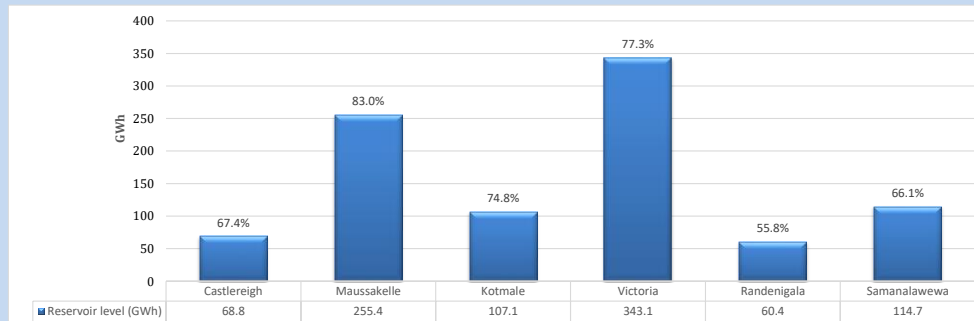
Table 07

Night Peak*	2,459	MW
Day Peak Maximum Demand	2,180	MW
Day Peak Minimum Demand	1,670	MW
Off Peak Minimum Demand	1,459	MW

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

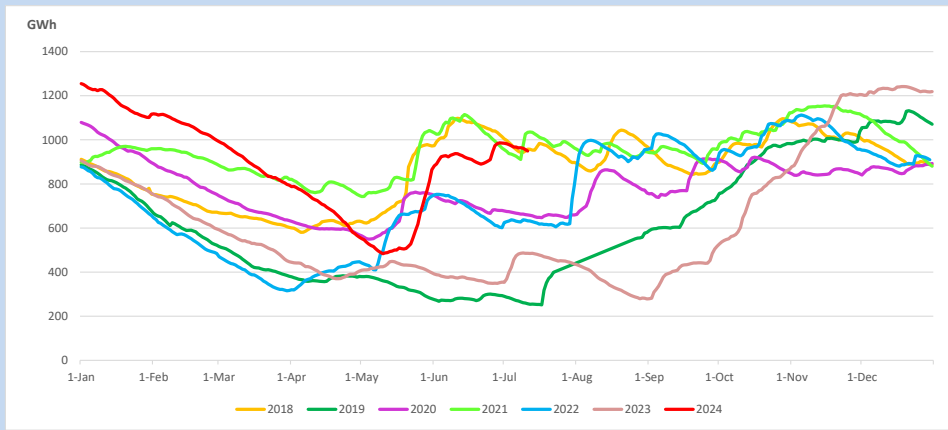
Reservoir Levels -

as at 06.00 Hr on July 11, 2024

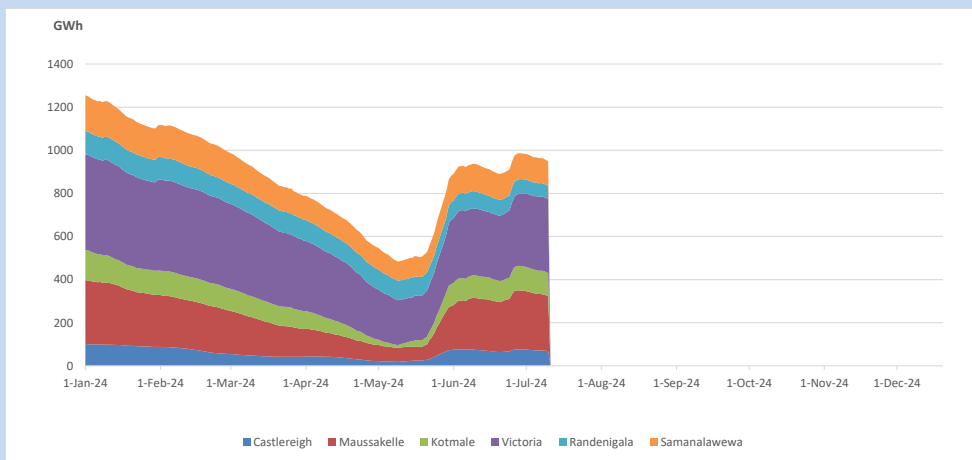


Total Reservoir Level 949.5 GWh
% of Total capacity 74.3%

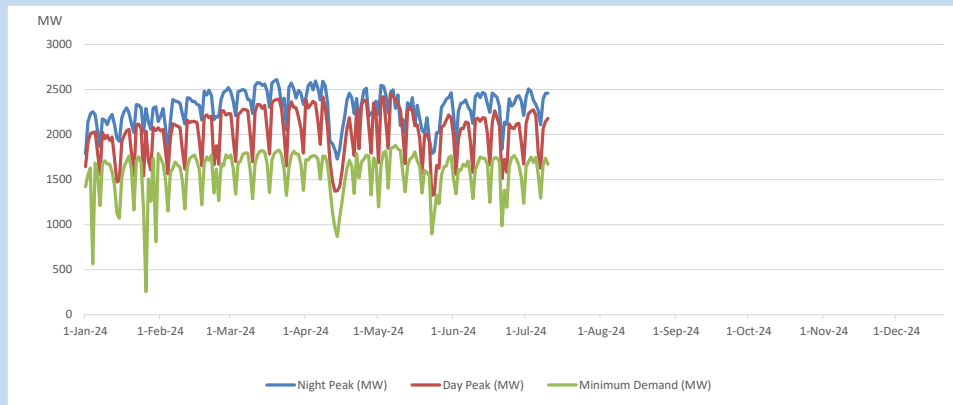
11. Comparison of Total Reservoir Storage Levels with Past Years



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



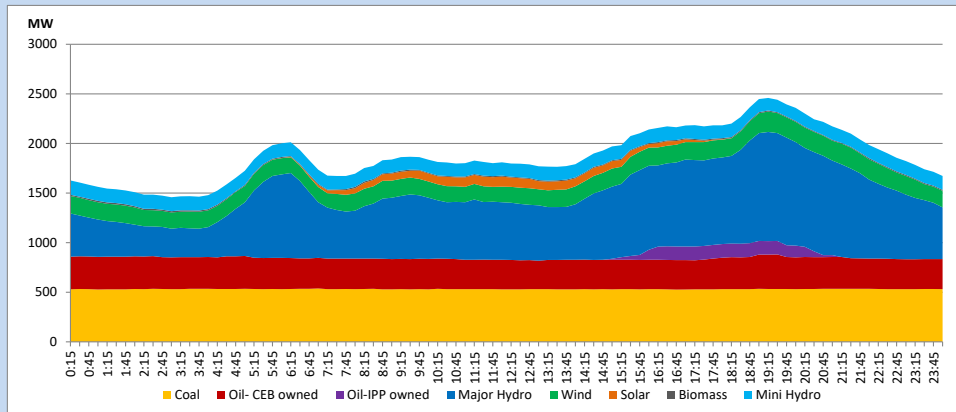
13. Variation of Demand during the current year



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

14. Daily Load Curve

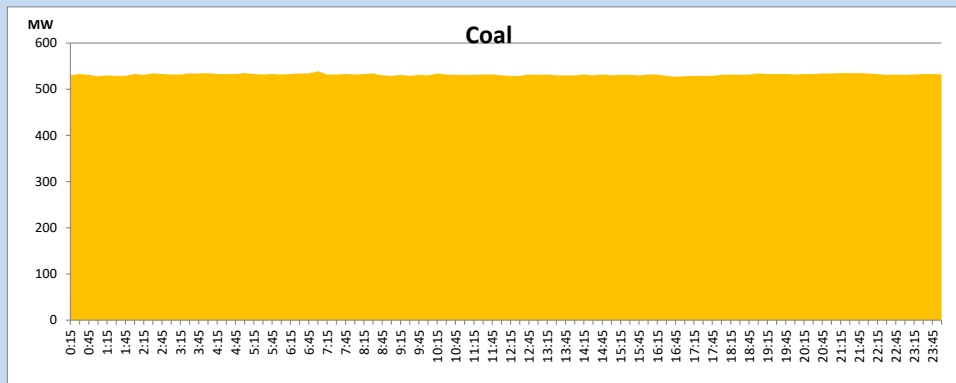
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Solar and wind data is based on Telemetered Power Stations only

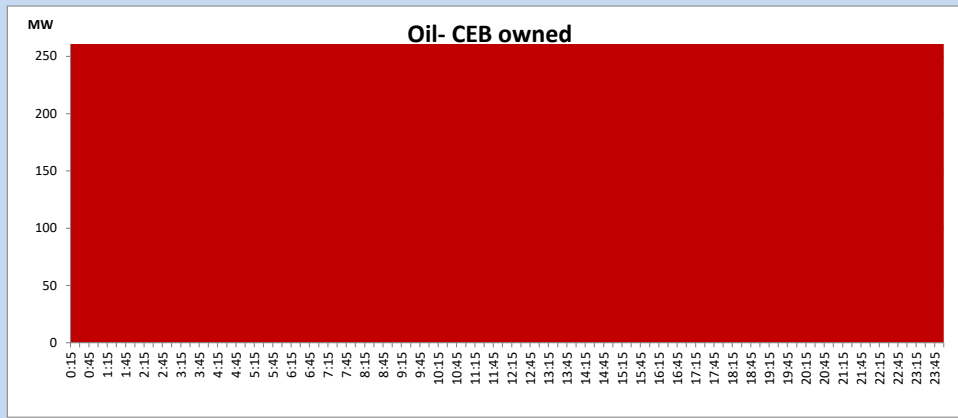
Coal Generation during

July 10, 2024



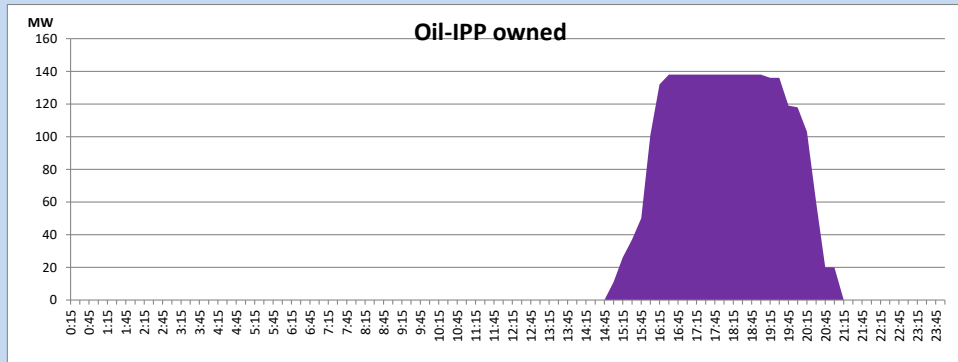
CEB Oil Plant Generation during

July 10, 2024



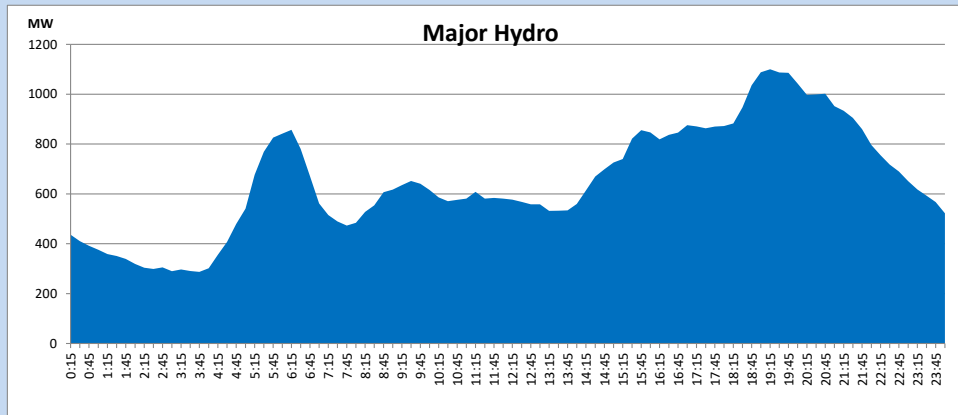
IPP Oil Plant Generation during

July 10, 2024



Major Hydro Generation during

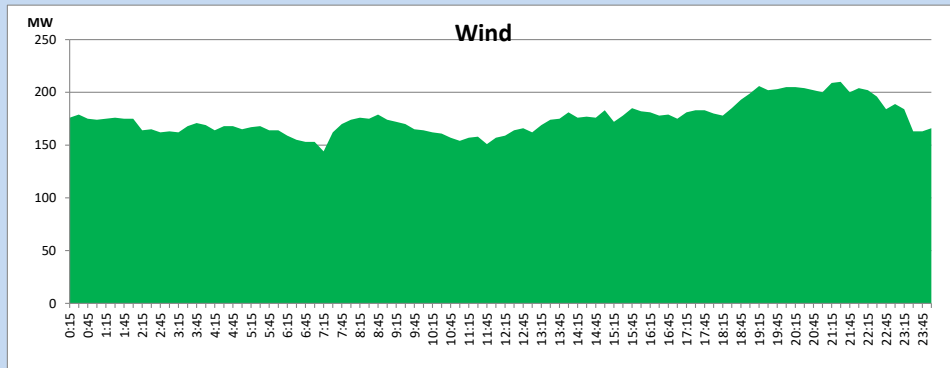
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Wind Generation during

July 10, 2024

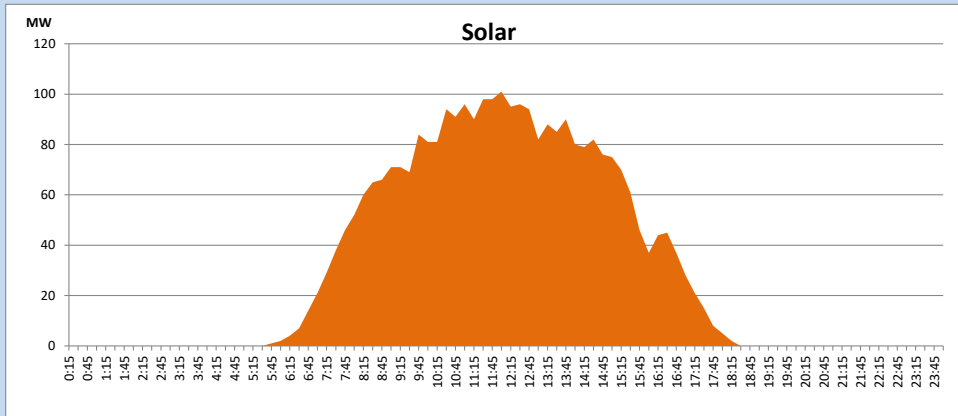
Based on Telemetered Power Stations only



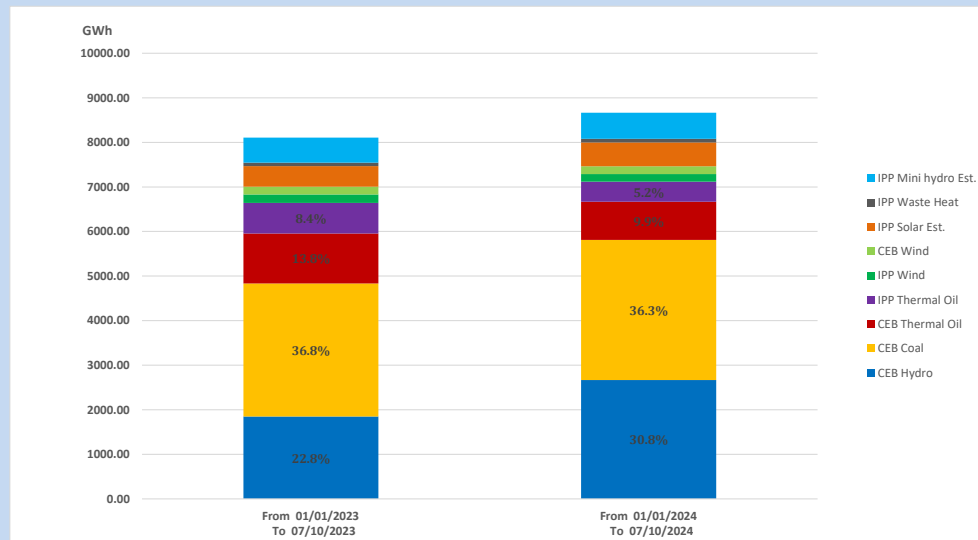
Solar Generation during

July 10, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 07/10/2023
 From 01/01/2024 To 07/10/2024

8108 GWh
 8666 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 10, 2024

- 1) Veyangoda 132/33kV T/F 02, wich failed to normalized on 09.07.2024, was normalized at 16:59hrs.
- 2) Horana 132/33kV T/F 03 tripped only from the 33kV side at 17:32hrs while energizing the 33kV feeder 07, which tripped at 17:21 hrs. Horana T/F 02 was normalized at 17:55hrs and feeder 07 was normalized at 19:05hrs.
- 3) KPS GT 07 was made unavailable for generation for the night peak at 17:58 hrs after two attempts of failure due to high turbine vibration and brake path temperature high alarms, respectively.