

Generation and Reservoirs Statistics

July 14, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

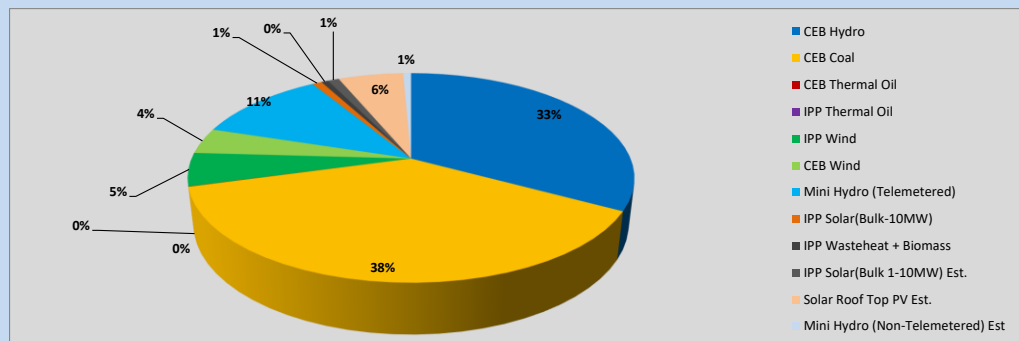


Table 01

	Generation (MWh)
CEB Hydro	12,658
CEB Coal	14,581
CEB Thermal Oil	14
IPP Thermal Oil	-
IPP Wind	1,973
CEB Wind	1,537
Mini Hydro (Telemetered)	4,387
IPP Solar (Bulk)	317
IPP Waste heat + Biomass	228
Total Generation (Excluding estimated figures)	35,695
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	264
* Estimated IPP Solar PV (Bulk 1-10MW)	377
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	38,506

* 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	220	34.24%
CEB Coal	199	30.92%
CEB Thermal Oil	58	9.07%
IPP Thermal	18	2.76%
SPP Wind	25	3.95%
CEB Wind	26	4.00%
Mini Hydro *	52	8.01%
IPP Solar *	41	6.32%
IPP Waste heat + BMP	5	0.73%
Total	644	

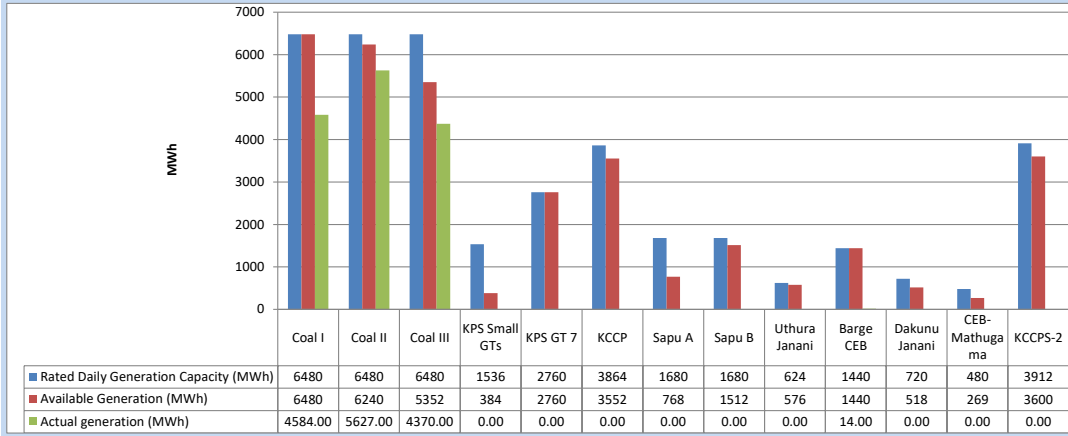
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,728	30.84%
CEB Coal	3,203	36.21%
CEB Thermal Oil	875	9.89%
IPP Thermal	451	5.10%
SPP Wind	178	2.01%
CEB Wind	182	2.05%
Mini Hydro *	601	6.79%
IPP Solar *	547	6.18%
IPP Waste heat	82	0.93%
Total	8,847	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

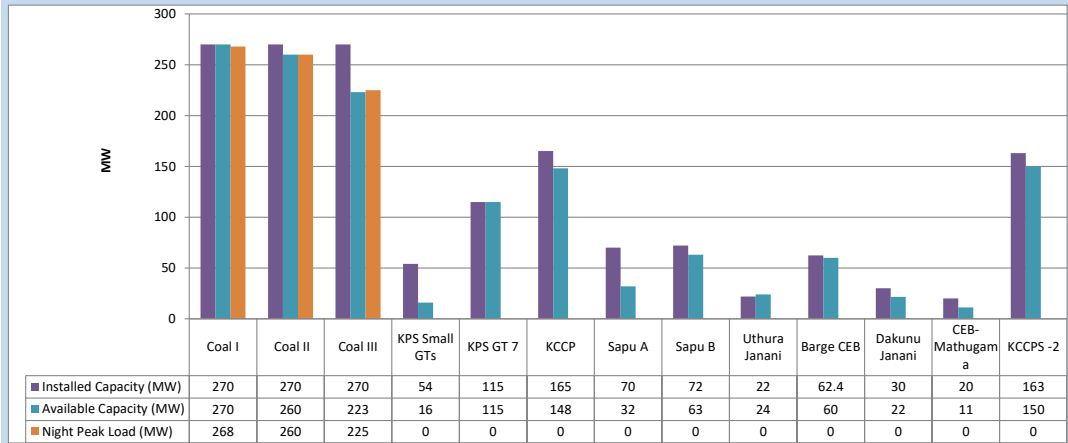
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Available Generation is estimated based on plant availability at 6.00am on

July 15, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

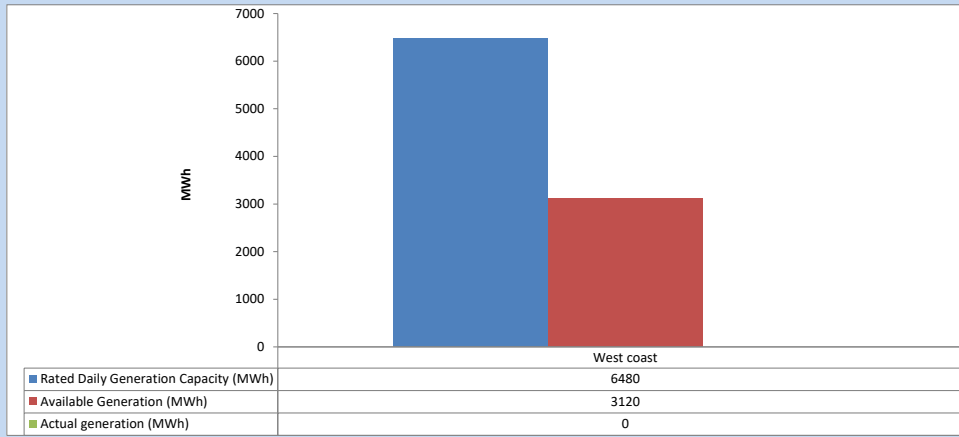


Plant availability is recorded at 6.00 am on

July 15, 2024

5. IPP owned Thermal Plant Dispatch

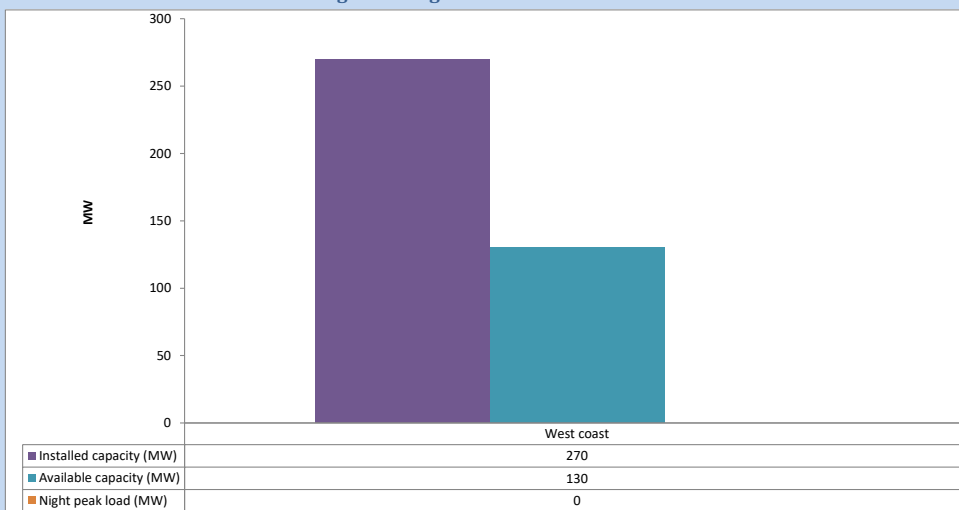
July 14, 2024



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

July 15, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

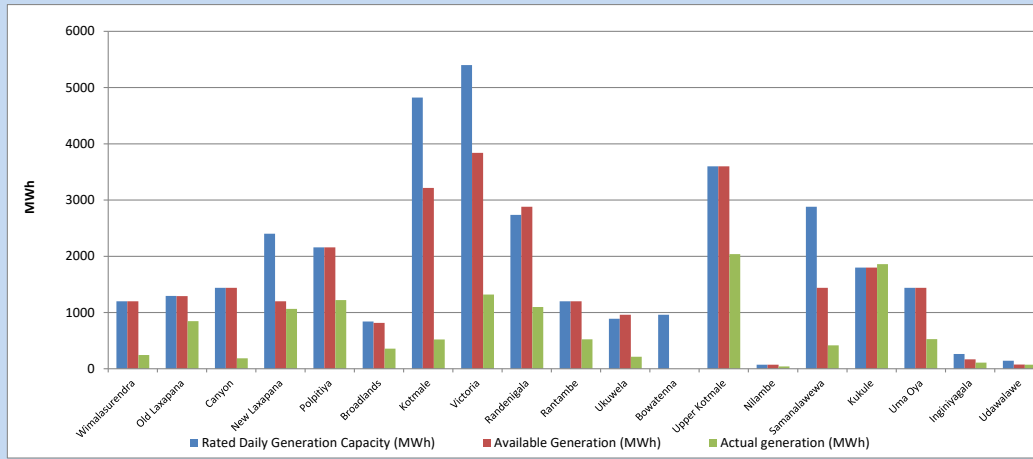


Plant availability is recorded at 6.00 am on

July 15, 2024

7. Major Hydro Plant Dispatch

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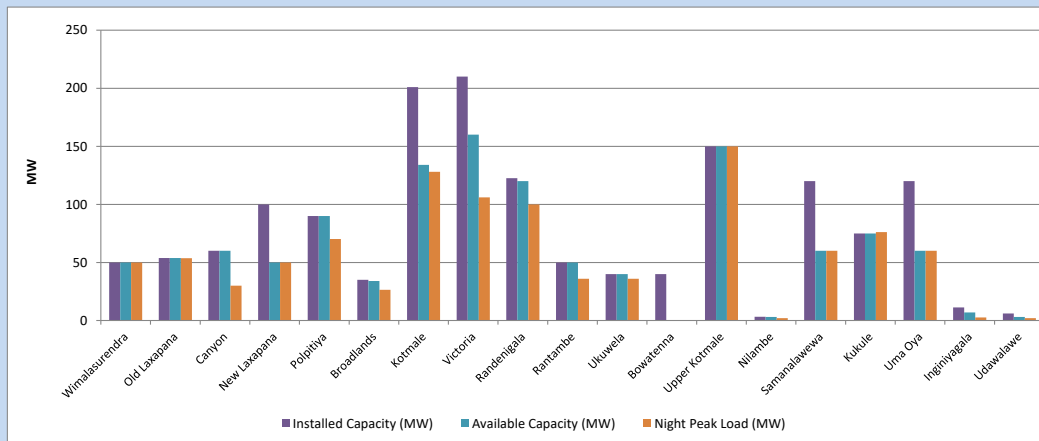


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 15, 2024

8. Major Hydro Plant Loading at Night Peak

July 14, 2024



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

July 15, 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	243
Old Laxapana	54	54	54	845
Canyon	60	60	30	186
New Laxapana	100	50	50	1,066
Polpitiya	90	90	70	1,220
Broadlands	35	34	27	357
Kotmale	201	134	128	520
Victoria	210	160	106	1,320
Randenigala	123	120	100	1,099
Rantambe	50	50	36	523
Ukuwela	40	40	36	212
Bowatenna	40	0	0	0
Upper Kotmale	150	150	150	2,039
Nilambe	3	3	2	40
Samanalawewa	120	60	60	417
Kukule	75	75	76	1,861
Uma Oya (Testing)	120	60	60	528
Inginiyagala	11	7	3	109
Udawalawe	6	3	2	73
Puttalam Coal I	270	270	268	4,584
Puttalam Coal II	270	260	260	5,627
Puttalam Coal III	270	223	225	4,370
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	0	0
Barge CEB	62	60	0	14
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	220	0	0	0
Total	3,594	2,724	2,172	35,695

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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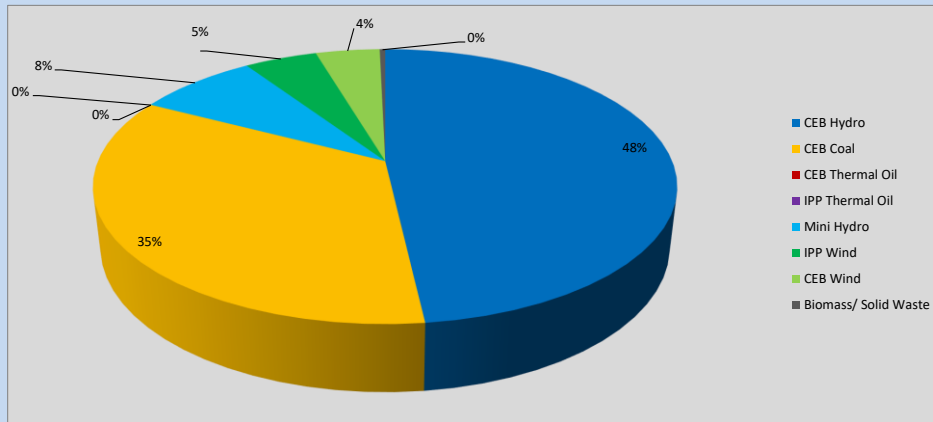


Table 06

CEB Hydro	1054	MW
CEB Coal	753	MW
CEB Thermal Oil	0	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	174	MW
IPP Wind	105	MW
CEB Wind	92.7	MW
Biomass/ Solid Waste	8	MW

Recorded Peak Demand Data

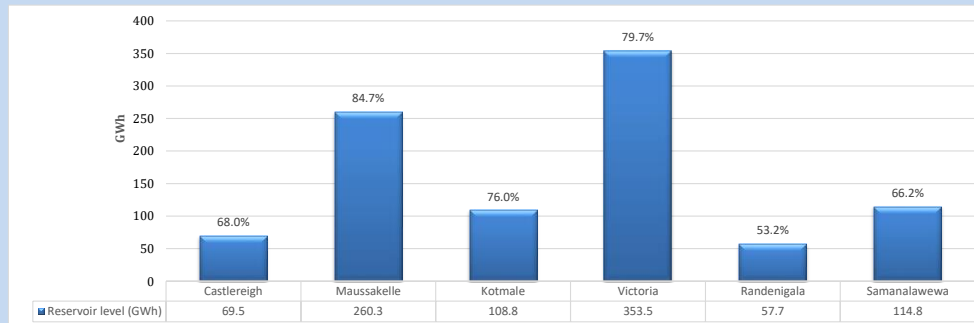
Table 07

Night Peak*	2,187	MW
Day Peak Maximum Demand	1,591	MW
Day Peak Minimum Demand	1,171	MW
Off Peak Minimum Demand	1,309	MW

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

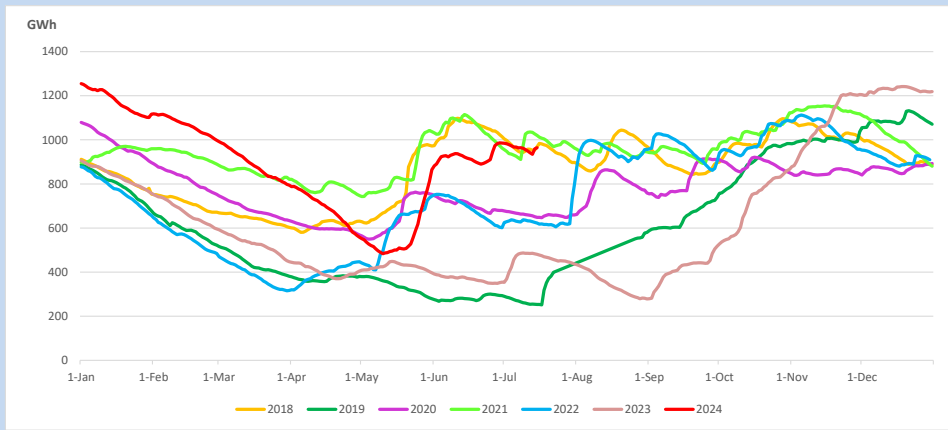
Reservoir Levels -

as at 06.00 Hr on July 15, 2024

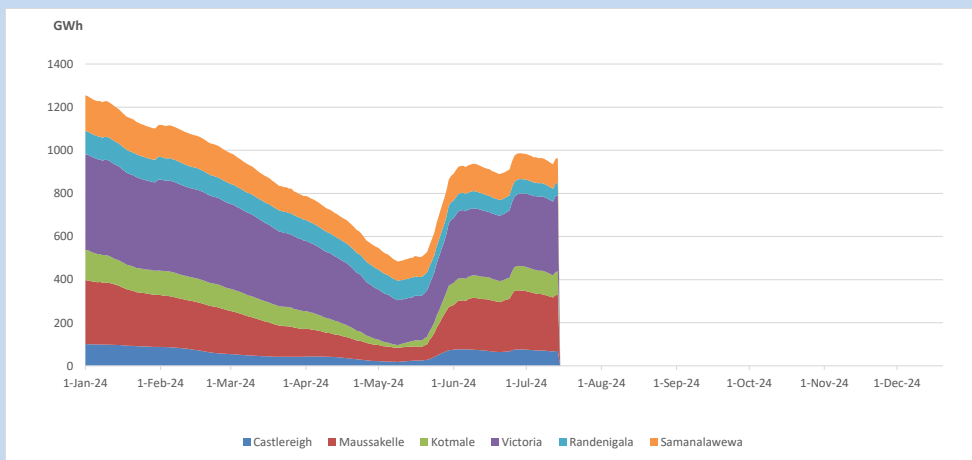


Total Reservoir Level 964.6 GWh
 % of Total capacity 75.5%

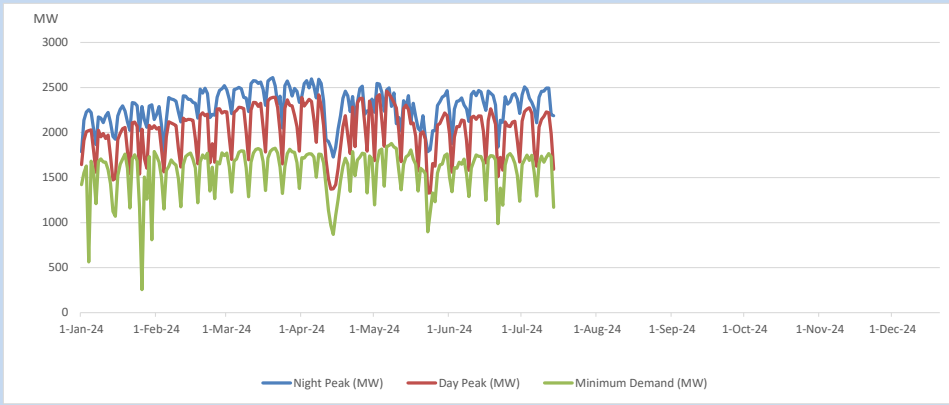
11. Comparison of Total Reservoir Storage Levels with Past Years



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



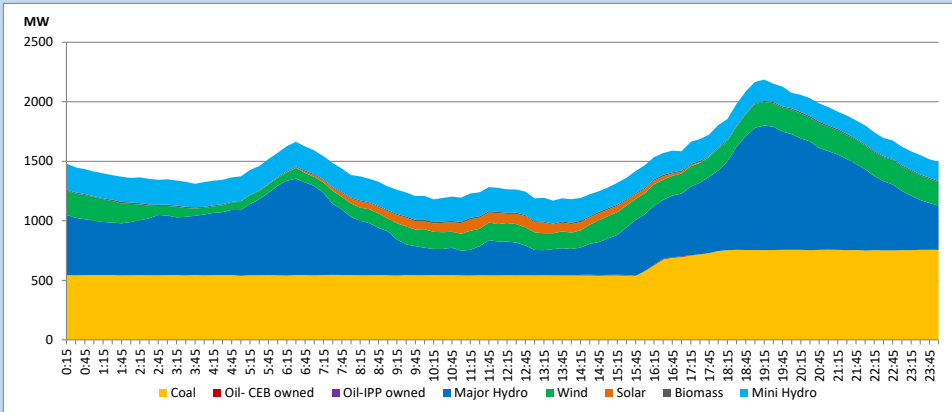
13. Variation of Demand during the current year



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

14. Daily Load Curve

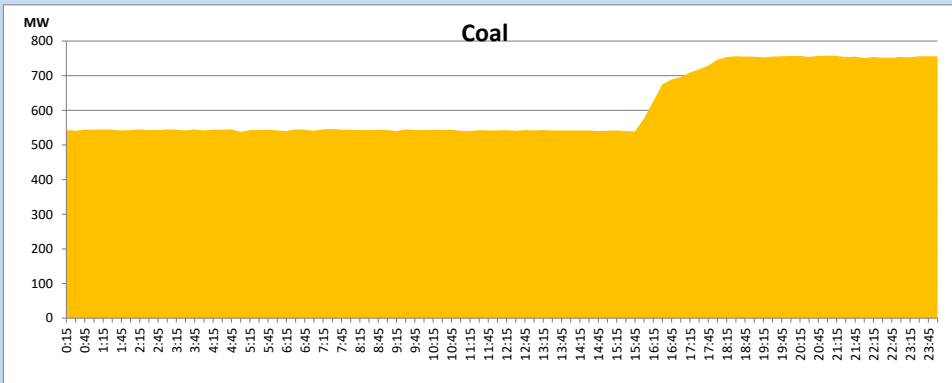
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Solar and wind data is based on Telemetered Power Stations only

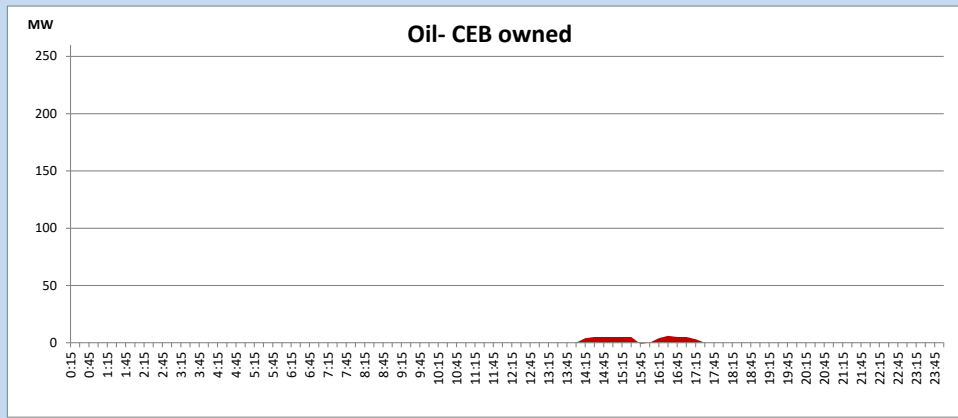
Coal Generation during

July 14, 2024



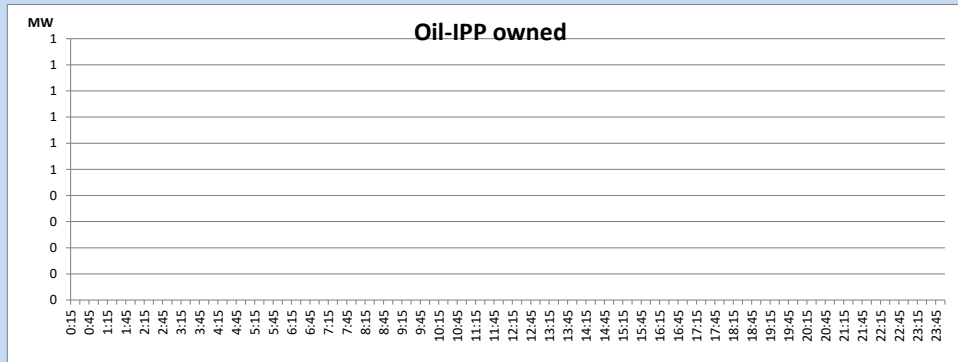
CEB Oil Plant Generation during

July 14, 2024



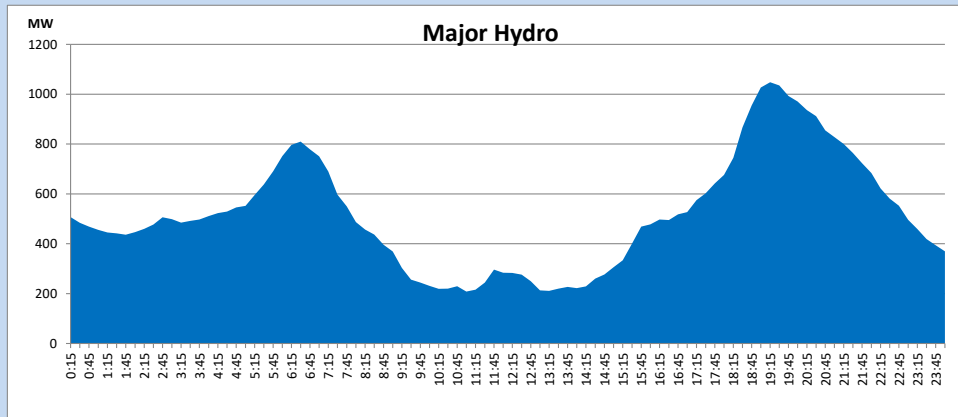
IPP Oil Plant Generation during

July 14, 2024



Major Hydro Generation during

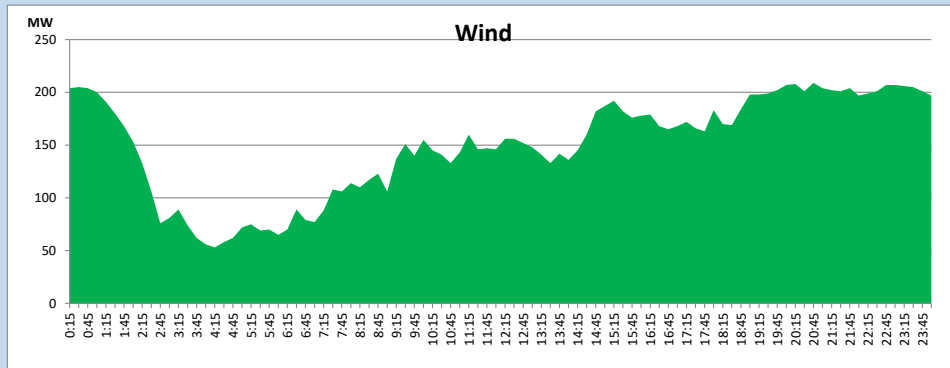
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Wind Generation during

July 14, 2024

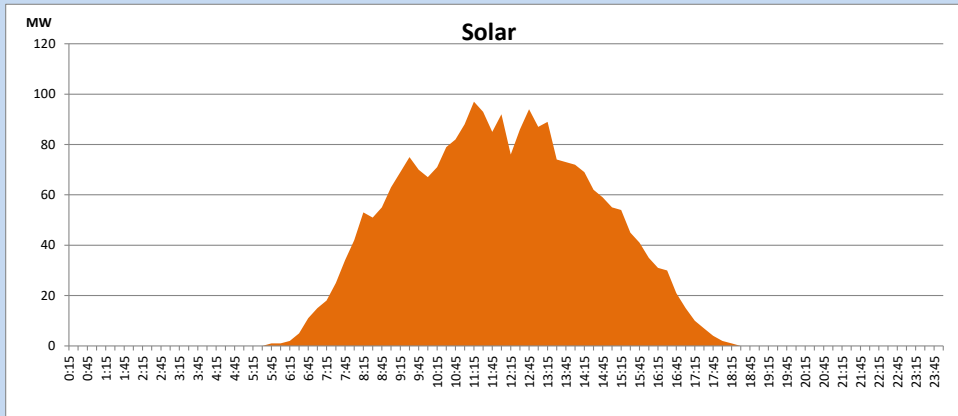
Based on Telemetered Power Stations only



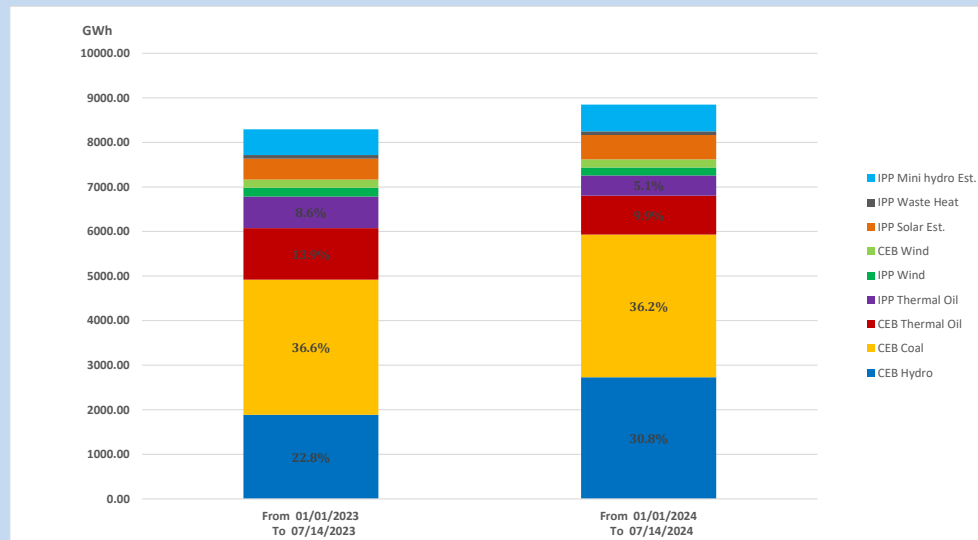
Solar Generation during

July 14, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 07/14/2023
 From 01/01/2024 To 07/14/2024

8292 GWh
 8847 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 14, 2024

- 1) Kukule Ganga pond spilling stopped at 15:37hrs.
- 2) Athurugiriya - Polpitiya - Thulhiriya 132kV cct tripped only from the Polpitiya end at 19:31 hrs due to the operation of distance protection. The Athurugiriya - Polpitiya - Thulhiriya cct failed its first attempt to restore at 20:03 hrs, and the cct was restored at 05:44 hrs (15.07.2024).
- 3) Ukuwela unit 01 was manually shut down at 20:32hrs due to high head loss.