

Generation and Reservoirs Statistics

June 27, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

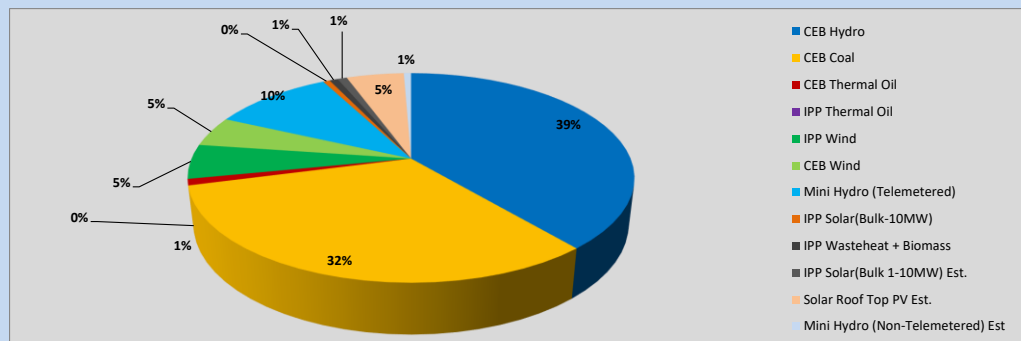


Table 01

	Generation (MWh)
CEB Hydro	18,099
CEB Coal	14,987
CEB Thermal Oil	453
IPP Thermal Oil	-
IPP Wind	2,478
CEB Wind	2,164
Mini Hydro (Telemetered)	4,863
IPP Solar (Bulk)	269
IPP Waste heat + Biomass	337
Total Generation (Excluding estimated figures)	43,650
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	293
* Estimated IPP Solar PV (Bulk 1-10MW)	384
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	46,647

* 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	420	34.68%
CEB Coal	424	35.00%
CEB Thermal Oil	38	3.10%
IPP Thermal	16	1.29%
SPP Wind	54	4.45%
CEB Wind	56	4.59%
Mini Hydro *	116	9.61%
IPP Solar *	81	6.65%
IPP Waste heat + BMP	8	0.63%
Total	1,212	

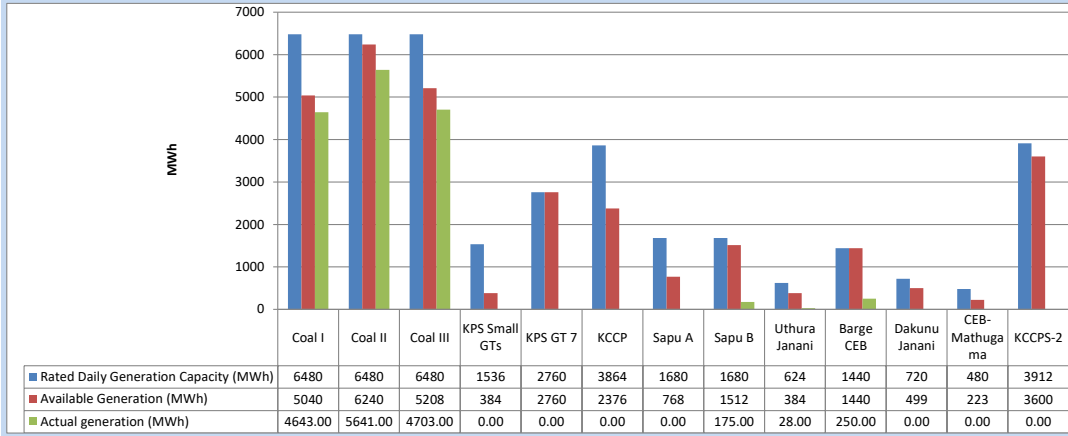
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,460	30.50%
CEB Coal	2,960	36.70%
CEB Thermal Oil	816	10.12%
IPP Thermal	433	5.37%
SPP Wind	145	1.80%
CEB Wind	150	1.86%
Mini Hydro *	548	6.80%
IPP Solar *	482	5.97%
IPP Waste heat	72	0.89%
Total	8,064	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

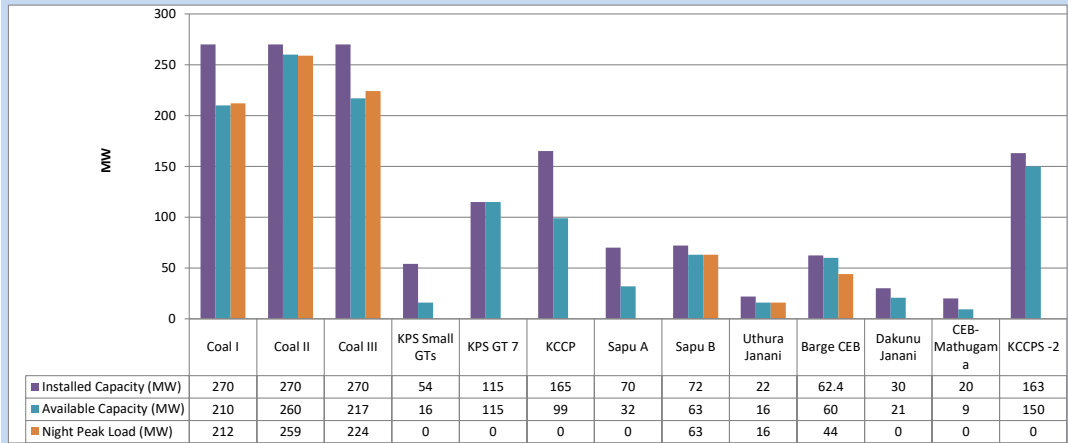
June 27, 2024



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

June 28, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

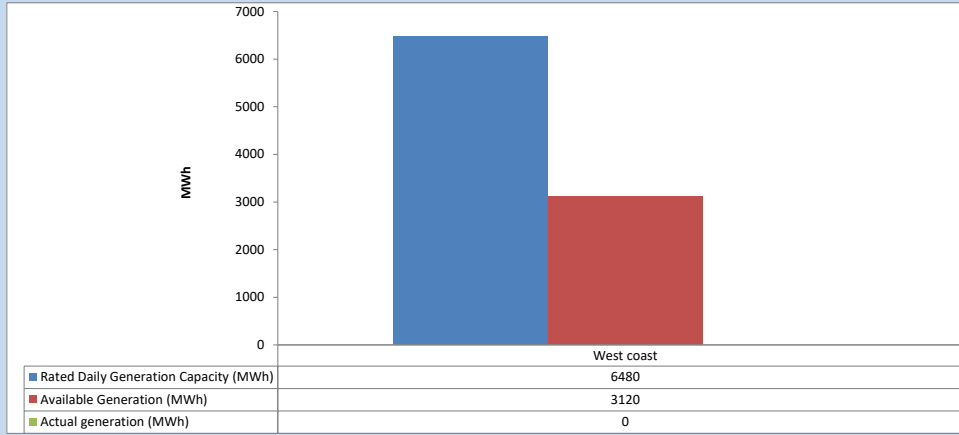


Plant availability is recorded at 6.00 am on

June 28, 2024

5. IPP owned Thermal Plant Dispatch

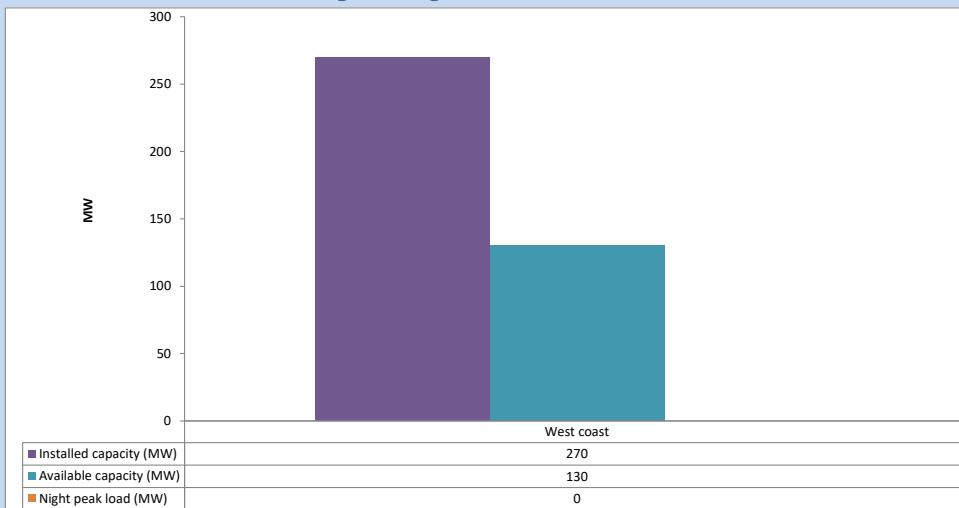
June 27, 2024



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

June 28, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

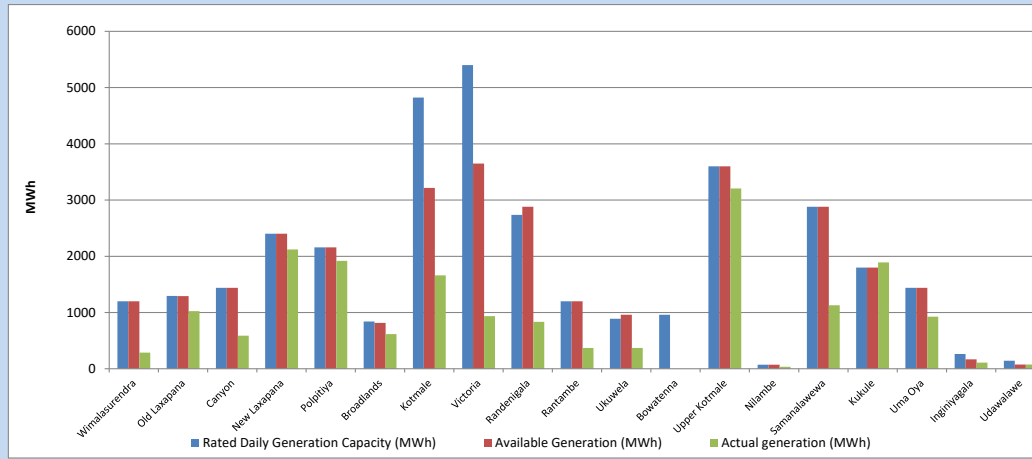


Plant availability is recorded at 6.00 am on

June 28, 2024

7. Major Hydro Plant Dispatch

June 27, 2024

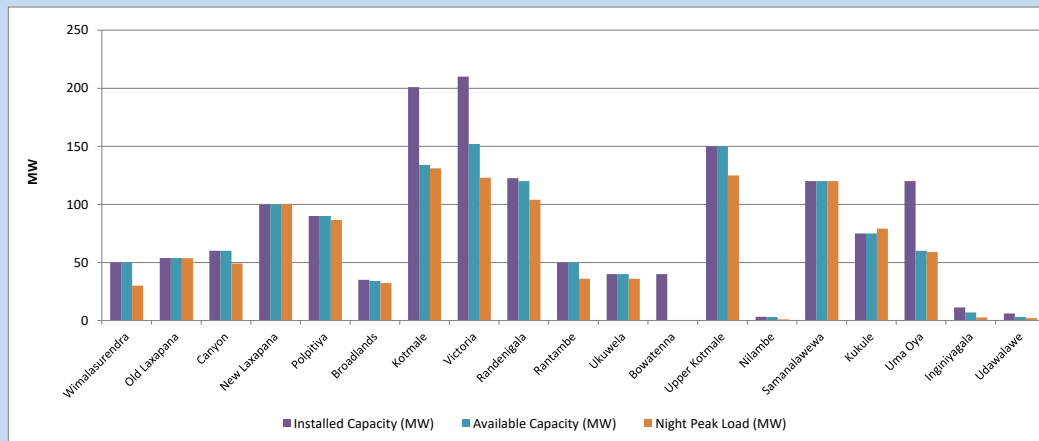


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 28, 2024

8. Major Hydro Plant Loading at Night Peak

June 27, 2024



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

June 28, 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	30	288
Old Laxapana	54	54	54	1,025
Canyon	60	60	49	589
New Laxapana	100	100	100	2,123
Polpitiya	90	90	87	1,920
Broadlands	35	34	32	615
Kotmale	201	134	131	1,660
Victoria	210	152	123	935
Randenigala	123	120	104	833
Rantambe	50	50	36	370
Ukuwela	40	40	36	369
Bowatenna	40	0	0	0
Upper Kotmale	150	150	125	3,207
Nilambe	3	3	1	35
Samanalawewa	120	120	120	1,130
Kukule	75	75	79	1,891
Uma Oya (Testing)	120	60	59	925
Inginiyagala	11	7	3	109
Udawalawe	6	3	2	75
Puttalam Coal I	270	210	212	4,643
Puttalam Coal II	270	260	259	5,641
Puttalam Coal III	270	217	224	4,703
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	99	0	0
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	63	175
Uthura Janani	22	16	16	28
Barge CEB	62	60	44	250
CEB-Hambantota	30	21	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	2,700	2,412	43,650

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

June 27, 2024

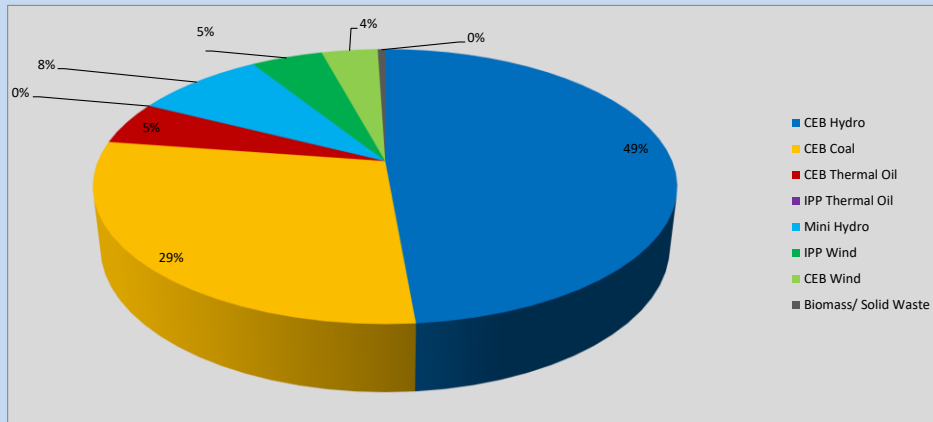


Table 06

CEB Hydro	1175	MW
CEB Coal	695	MW
CEB Thermal Oil	123	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	207	MW
IPP Wind	114.6	MW
CEB Wind	89.9	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

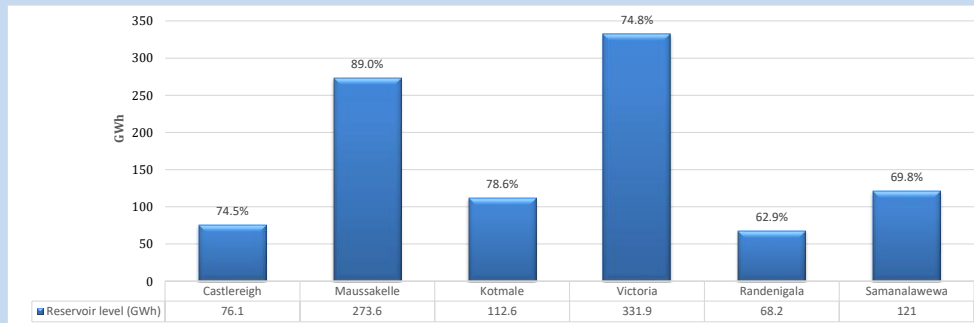
Table 07

Night Peak*	2,417	MW
Day Peak Maximum Demand	2,116	MW
Day Peak Minimum Demand	1,728	MW
Off Peak Minimum Demand	1,364	MW

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

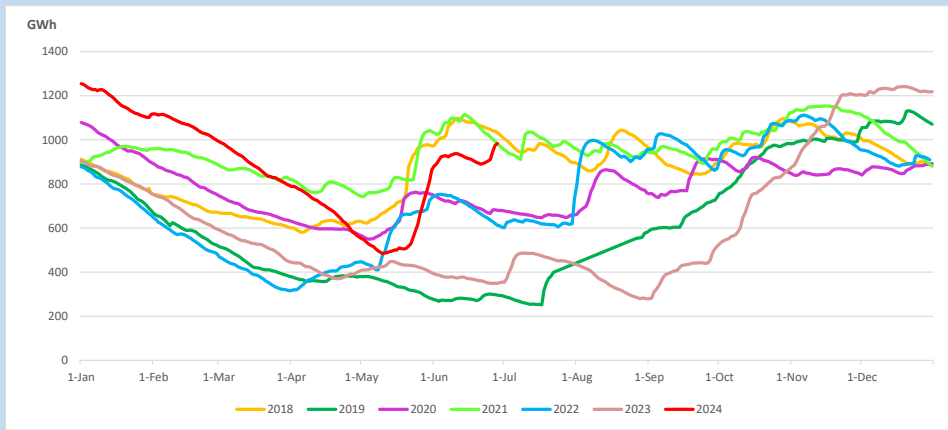
Reservoir Levels -

as at 06.00 Hr on June 28, 2024

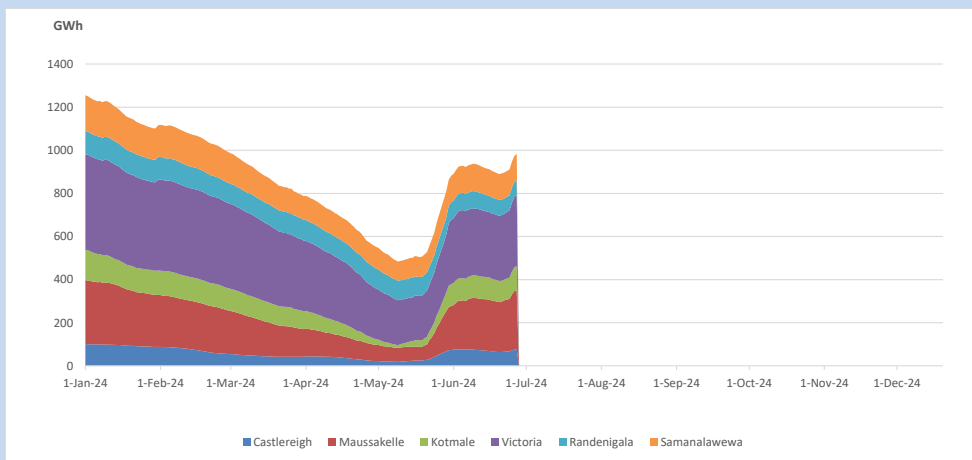


Total Reservoir Level 983.4 GWh
 % of Total capacity 76.9%

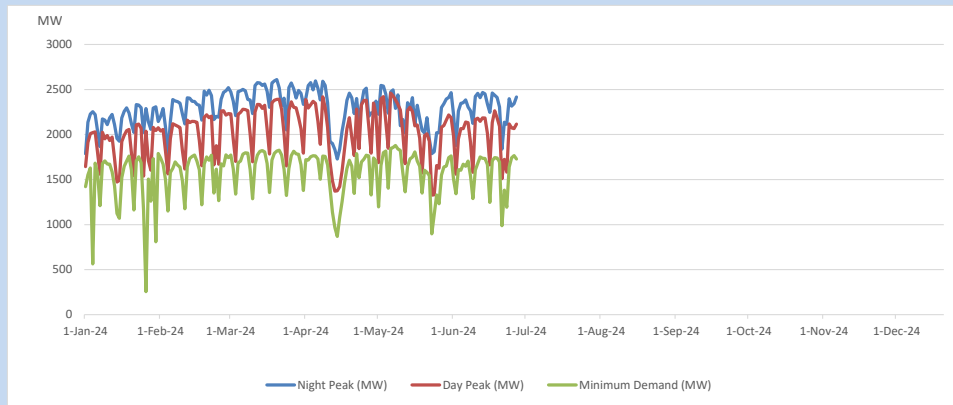
11. Comparison of Total Reservoir Storage Levels with Past Years



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



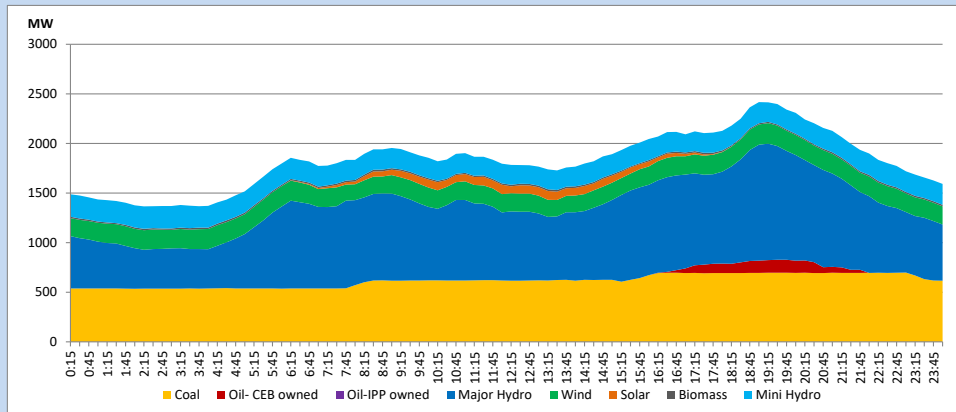
13. Variation of Demand during the current year



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

14. Daily Load Curve

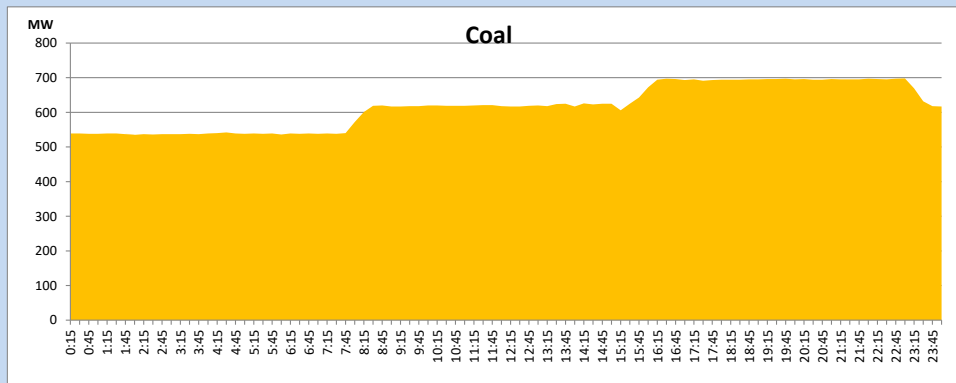
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Solar and wind data is based on Telemetered Power Stations only

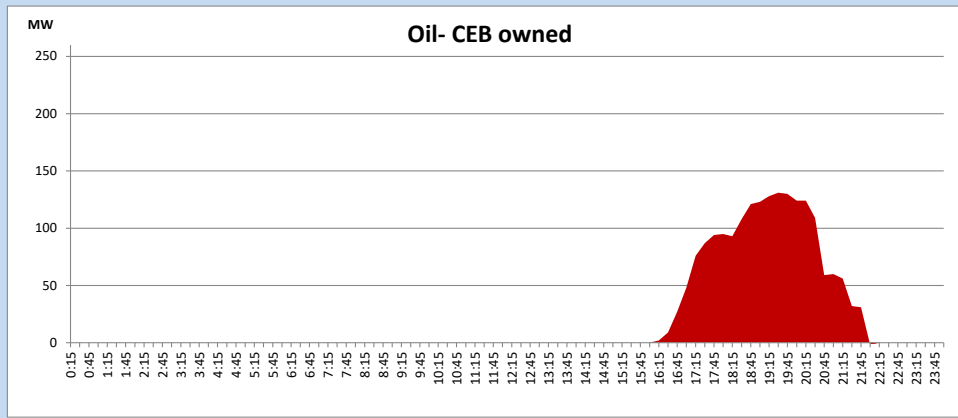
Coal Generation during

June 27, 2024



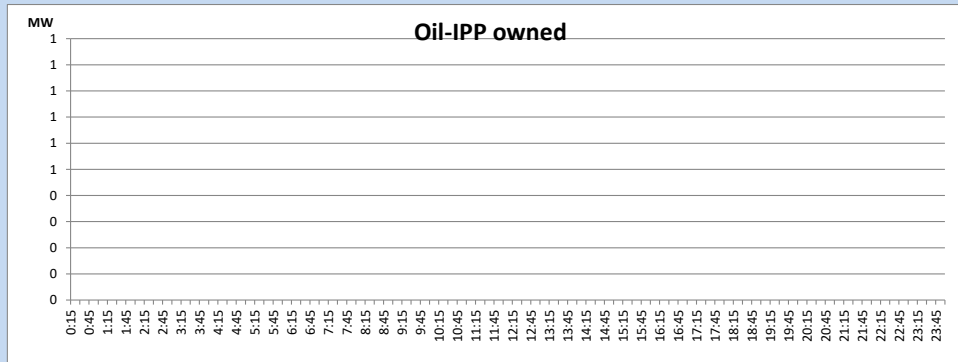
CEB Oil Plant Generation during

June 27, 2024



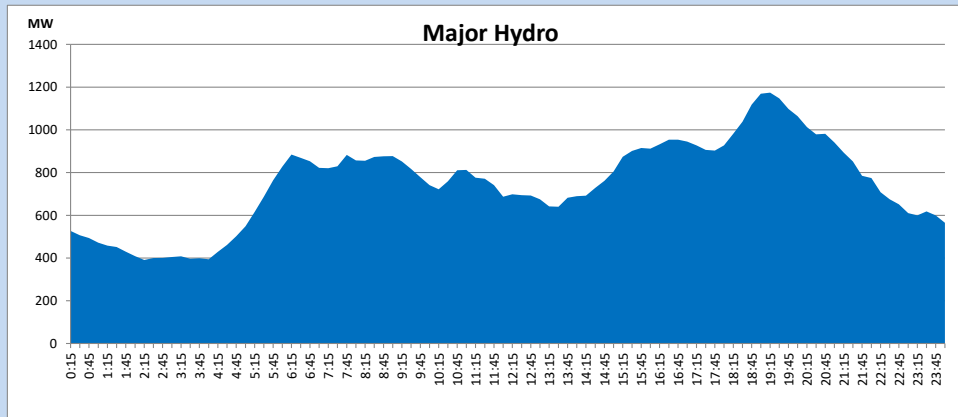
IPP Oil Plant Generation during

June 27, 2024



Major Hydro Generation during

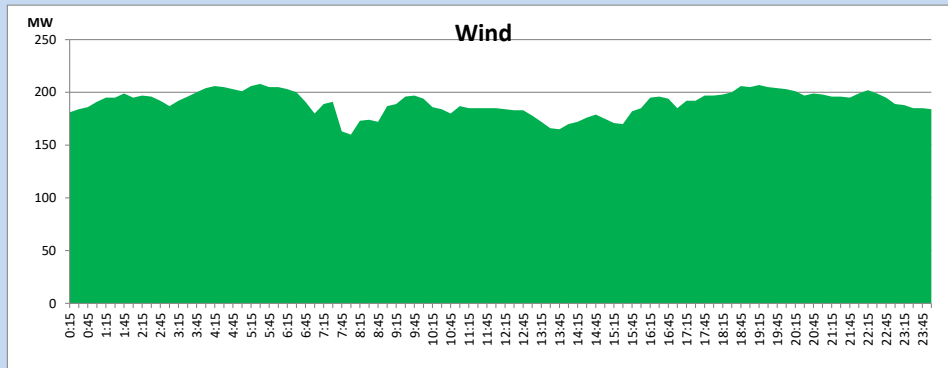
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Wind Generation during

June 27, 2024

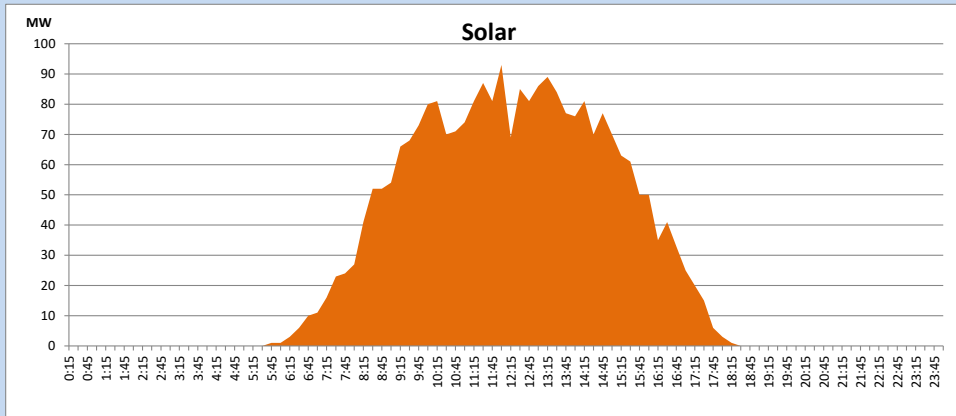
Based on Telemetered Power Stations only



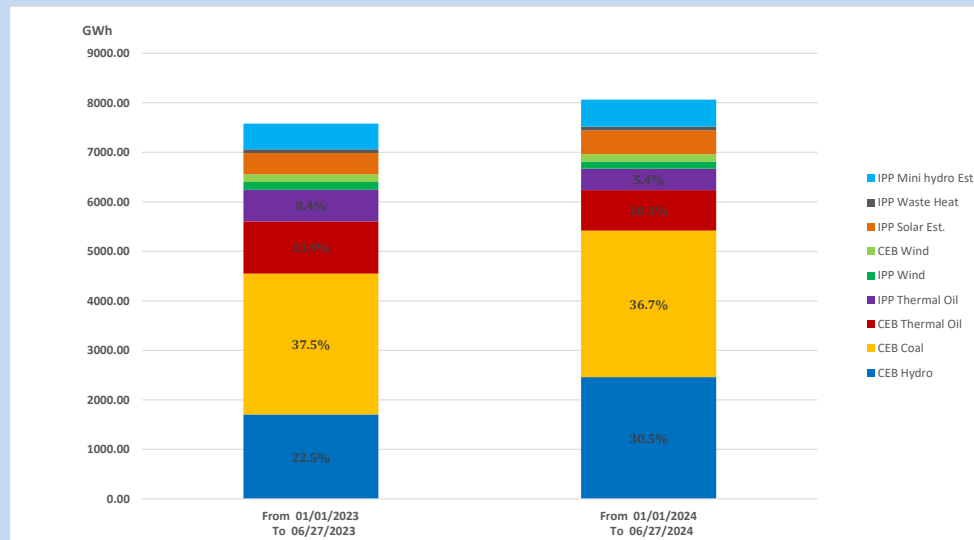
Solar Generation during

June 27, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 06/27/2023
 From 01/01/2024 To 06/27/2024

7581 GWh
 8064 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

June 27, 2024

- 1) Beliatta - Embilipitiya 132kV cct tripped & A/R from both ends at 11:36hrs and tripped from both ends at 11:39hrs due to the operation of distance protection. The cct was normalized at 12:02hrs.
- 2) LVPS Unit 01 availability was limited to 200MW (net) at 14:50hrs due to a CW pump issue. The unit is yet to reach full load.
- 3) Puttalam - Maho 132kV cct 02 tripped from both ends and A/R only from Puttalam end at 15:14hrs due to the operation of differential and distance protection. The cct was normalized at 15:27hrs.
- 4) Kukule Ganga pond spilling stopped at 00:30hrs (28.06.2024).