

Generation and Reservoirs Statistics

June 12, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

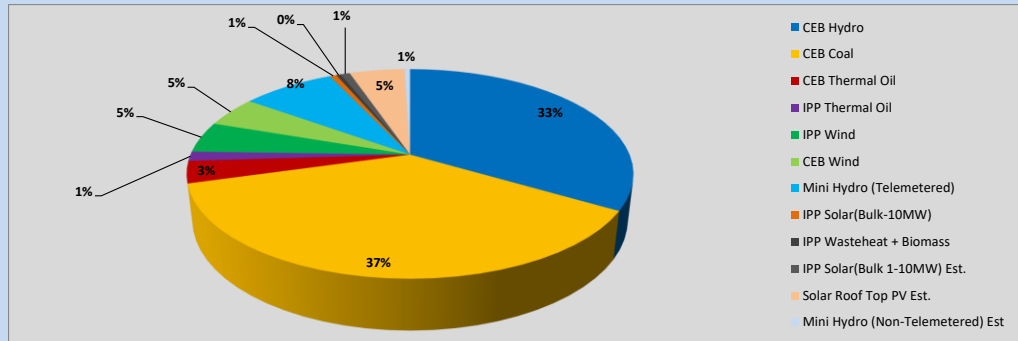


Table 01

	Generation (MWh)
CEB Hydro	16,269
CEB Coal	18,100
CEB Thermal Oil	1,651
IPP Thermal Oil	709
IPP Wind	2,319
CEB Wind	2,291
Mini Hydro (Telemetered)	3,911
IPP Solar (Bulk)	275
IPP Waste heat + Biomass	198
Total Generation (Excluding estimated figures)	45,723
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	236
* Estimated IPP Solar PV (Bulk 1-10MW)	387
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	48,666

* 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	200	37.20%
CEB Coal	174	32.46%
CEB Thermal Oil	16	2.93%
IPP Thermal	8	1.51%
SPP Wind	21	3.82%
CEB Wind	24	4.42%
Mini Hydro *	56	10.47%
IPP Solar *	35	6.56%
IPP Waste heat + BMP	3	0.63%
Total	537	

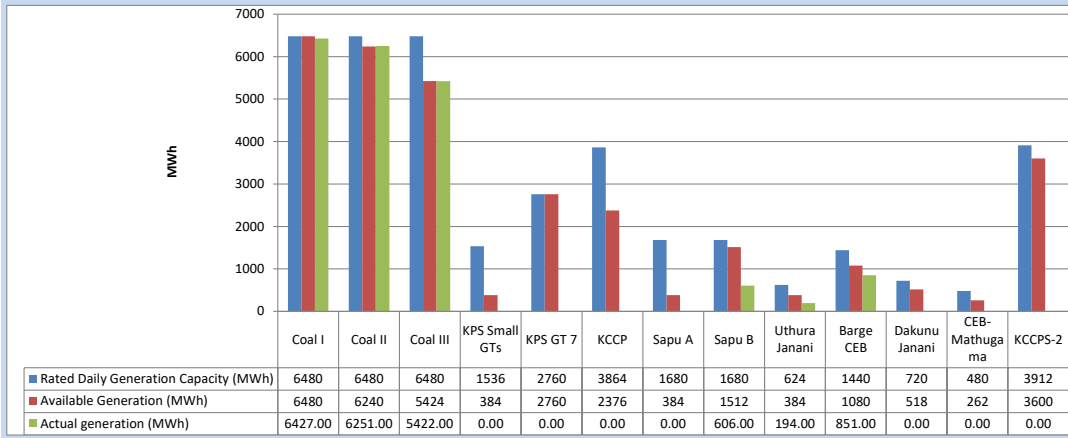
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,239	30.30%
CEB Coal	2,710	36.67%
CEB Thermal Oil	794	10.75%
IPP Thermal	425	5.75%
SPP Wind	111	1.51%
CEB Wind	118	1.59%
Mini Hydro *	488	6.60%
IPP Solar *	436	5.91%
IPP Waste heat	68	0.92%
Total	7,389	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

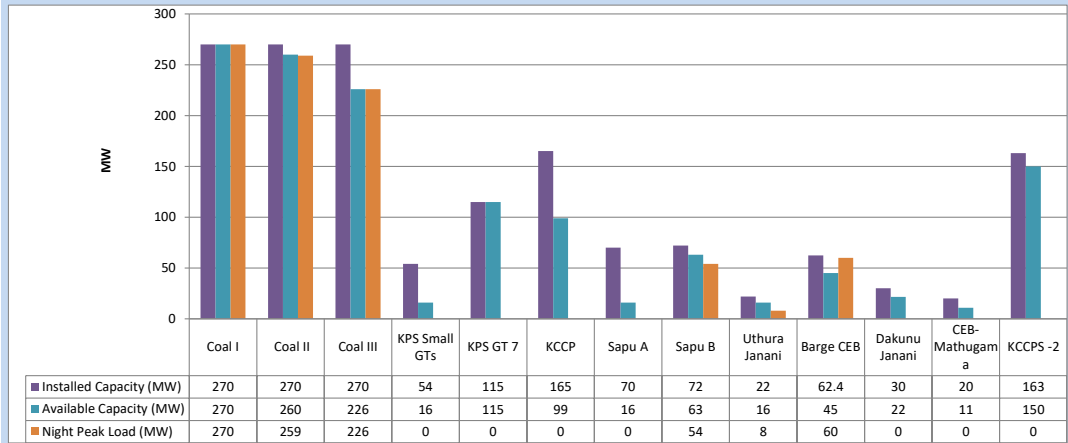
June 12, 2024



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

June 13, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

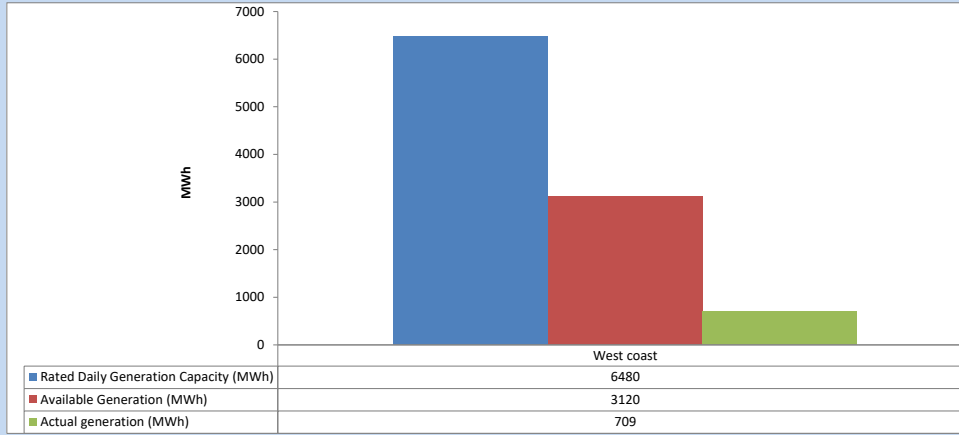


Plant availability is recorded at 6.00 am on

June 13, 2024

5. IPP owned Thermal Plant Dispatch

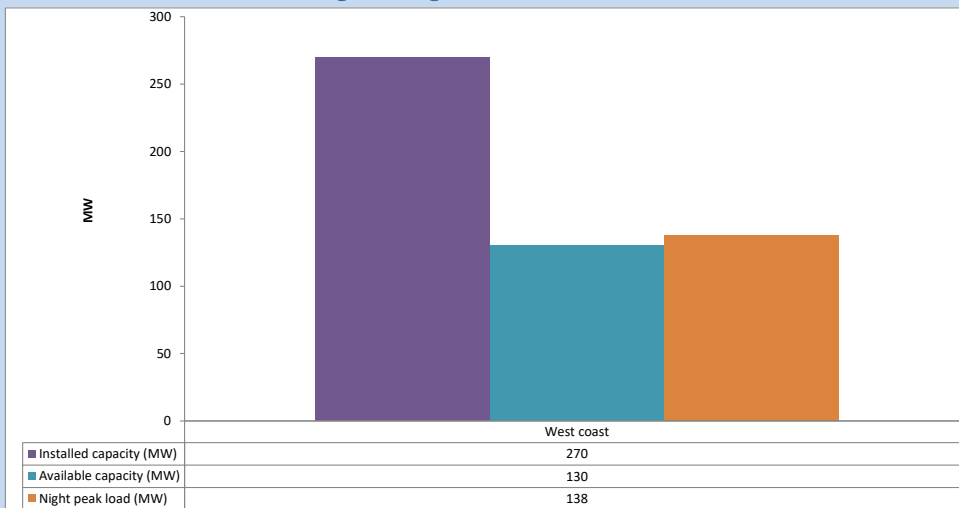
June 12, 2024



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

June 13, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

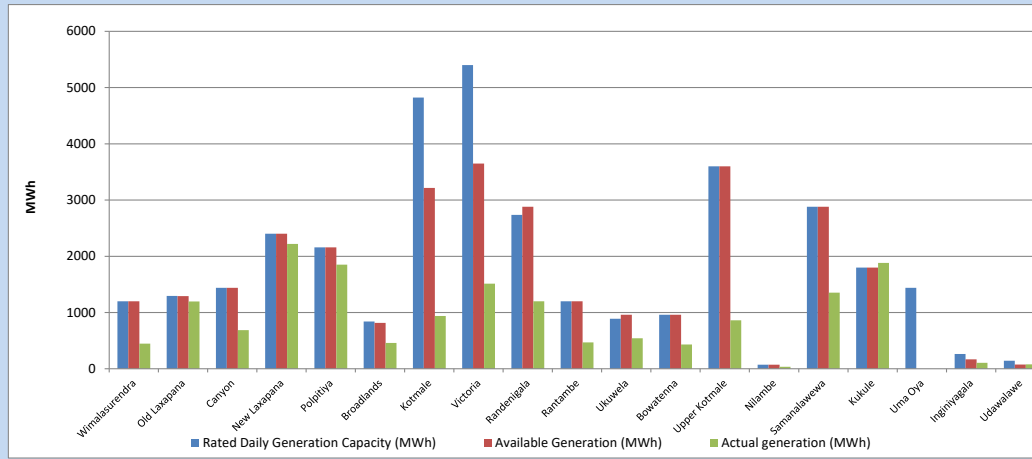


Plant availability is recorded at 6.00 am on

June 13, 2024

7. Major Hydro Plant Dispatch

June 12, 2024

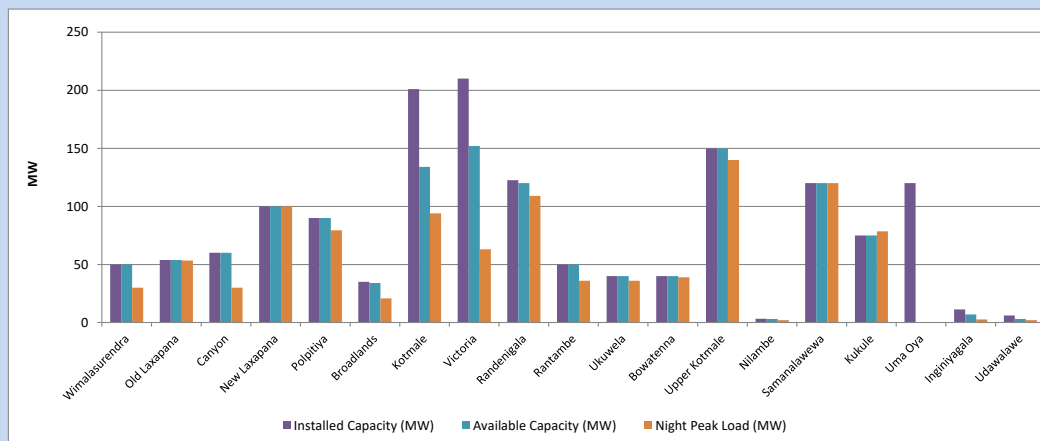


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

June 13, 2024

8. Major Hydro Plant Loading at Night Peak

June 12, 2024



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

June 13, 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	446
Old Laxapana	54	54	53	1,196
Canyon	60	60	30	687
New Laxapana	100	100	100	2,219
Polpitiya	90	90	79	1,850
Broadlands	35	34	21	460
Kotmale	201	134	94	940
Victoria	210	152	63	1,514
Randenigala	123	120	109	1,199
Rantambe	50	50	36	470
Ukuwela	40	40	36	542
Bowatenna	40	40	39	431
Upper Kotmale	150	150	140	863
Nilambe	3	3	2	35
Samanalawewa	120	120	120	1,354
Kukule	75	75	79	1,881
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	3	106
Udawalawe	6	3	2	77
Puttalam Coal I	270	270	270	6,427
Puttalam Coal II	270	260	259	6,251
Puttalam Coal III	270	226	226	5,422
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	99	0	0
Sapugaskanda A	70	16	0	0
Sapugaskanda B	72	63	54	606
Uthura Janani	22	16	8	194
Barge CEB	62	45	60	851
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	138	709
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,720	2,404	45,724

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 12, 2024

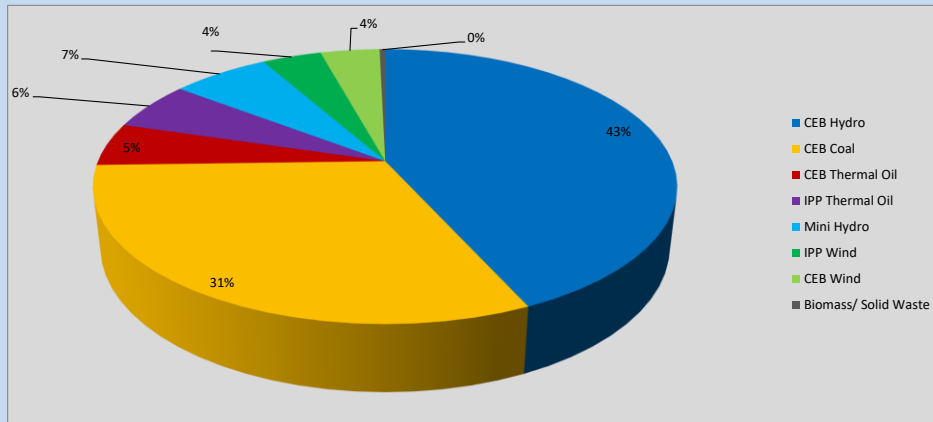


Table 06

CEB Hydro	1041	MW
CEB Coal	755	MW
CEB Thermal Oil	122	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	155	MW
IPP Wind	94.7	MW
CEB Wind	94.3	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

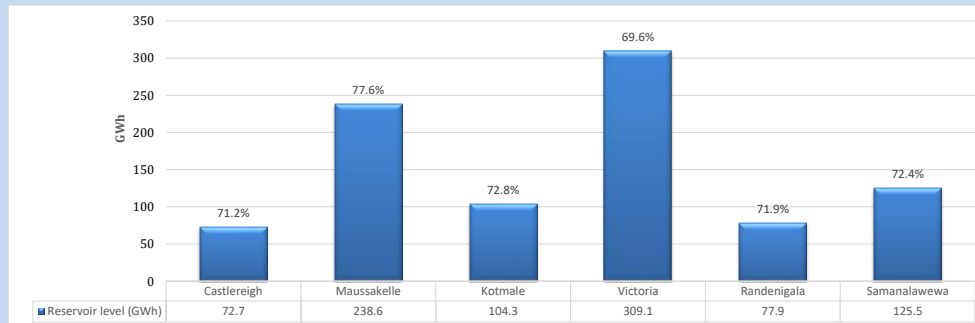
Table 07

Night Peak*	2,409	MW
Day Peak Maximum Demand	2,146	MW
Day Peak Minimum Demand	1,751	MW
Off Peak Minimum Demand	1,477	MW

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

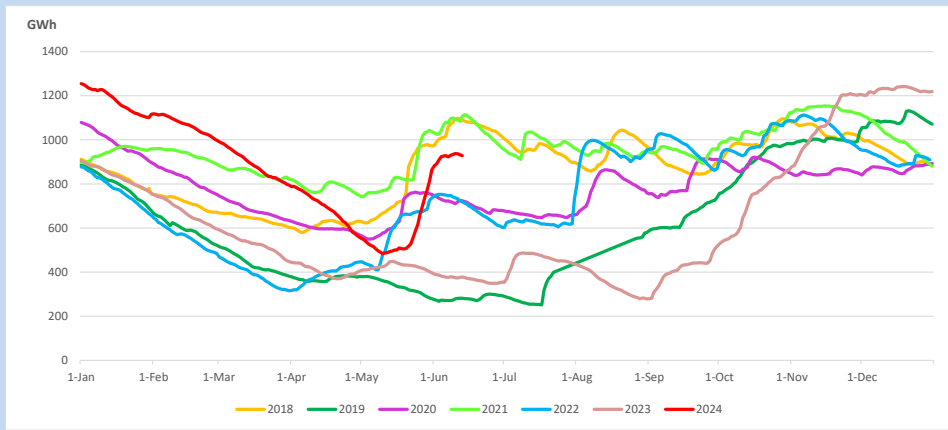
Reservoir Levels -

as at 06.00 Hr on June 13, 2024

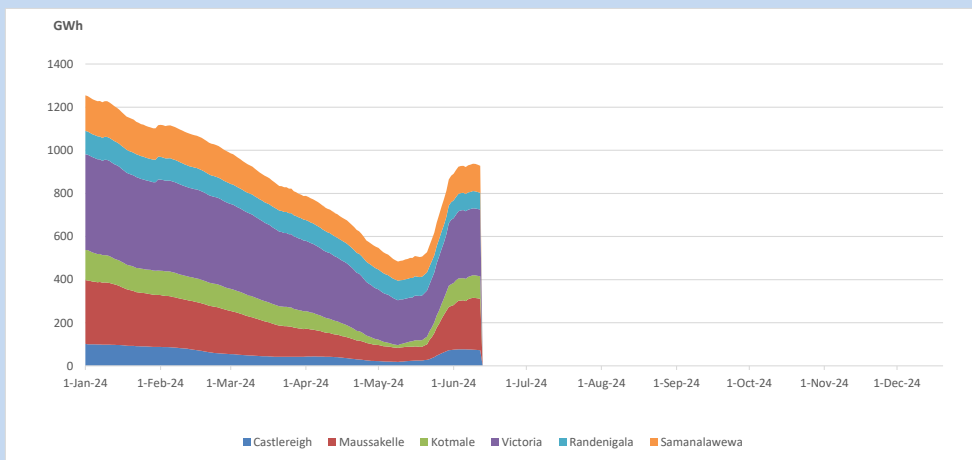


Total Reservoir Level 928.1 GWh
% of Total capacity 72.6%

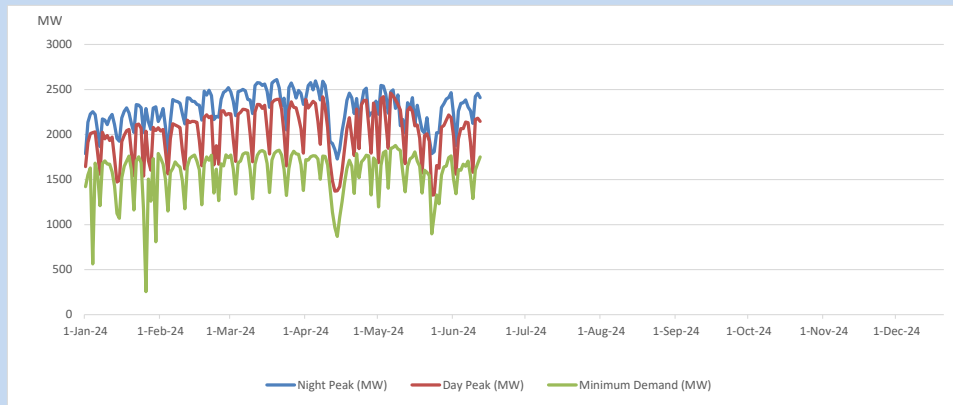
11. Comparison of Total Reservoir Storage Levels with Past Years



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



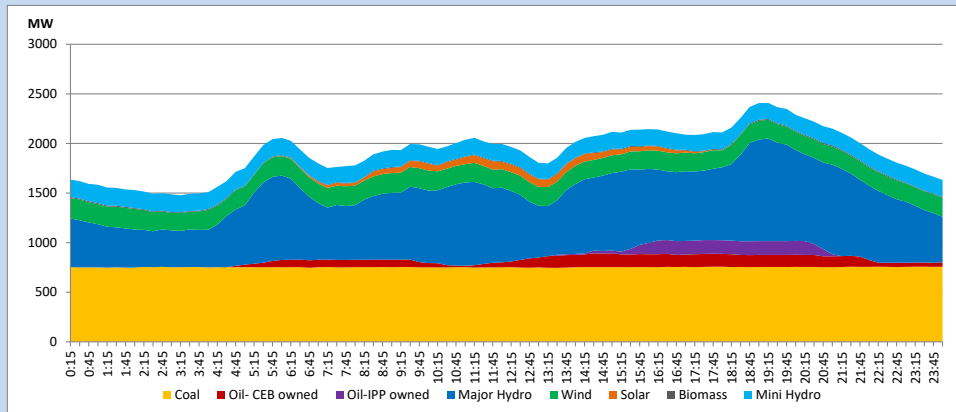
13. Variation of Demand during the current year



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

14. Daily Load Curve

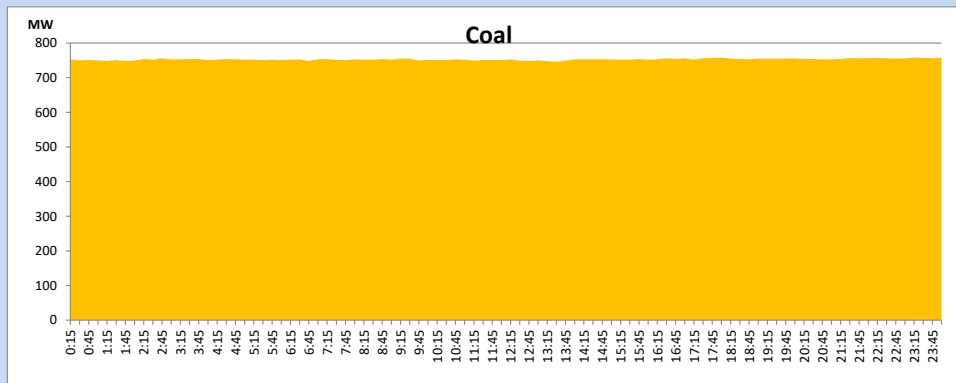
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Solar and wind data is based on Telemetered Power Stations only

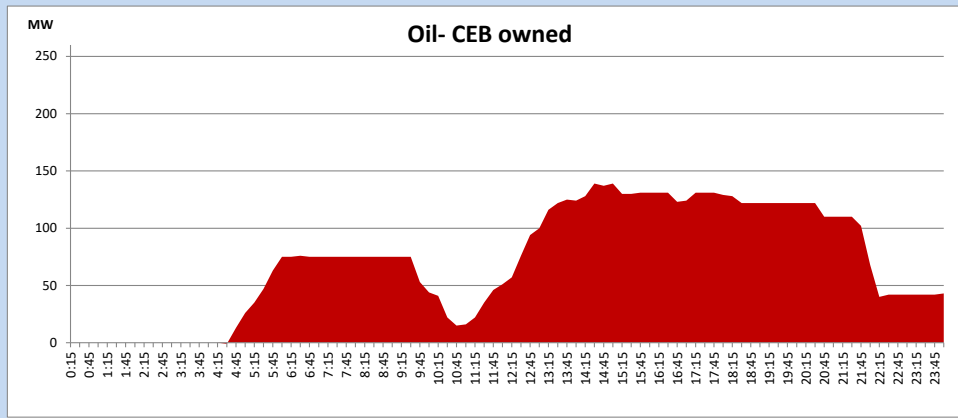
Coal Generation during

June 12, 2024



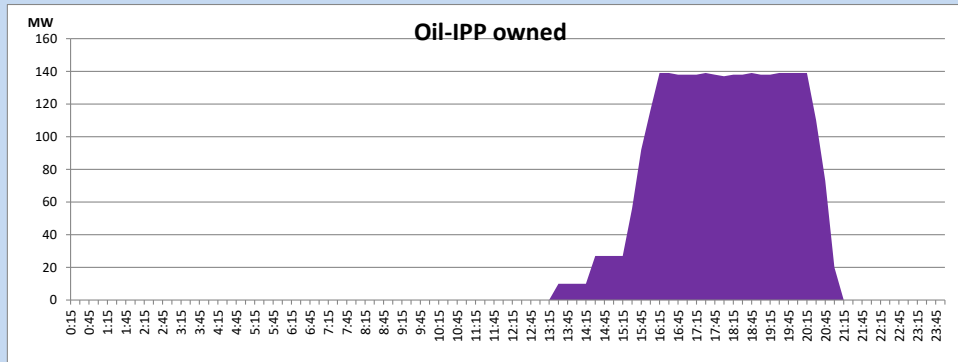
CEB Oil Plant Generation during

June 12, 2024



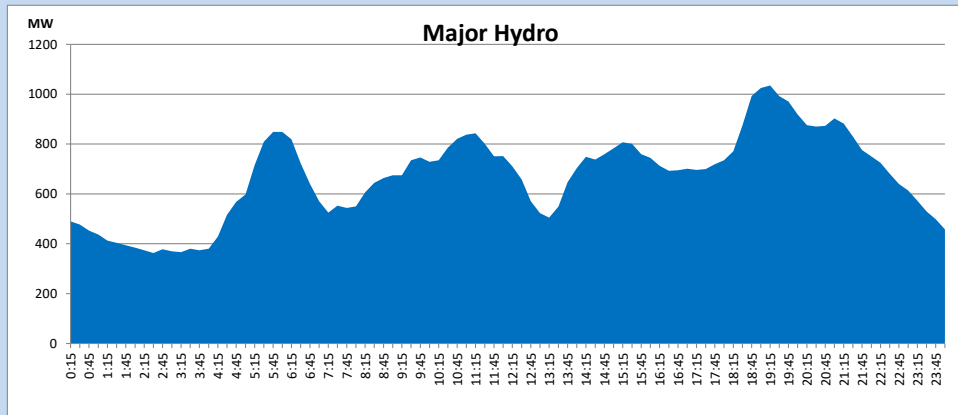
IPP Oil Plant Generation during

June 12, 2024



Major Hydro Generation during

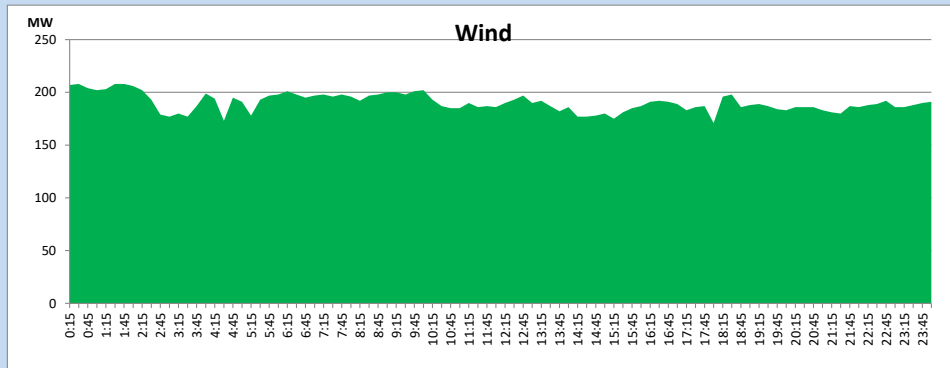
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Wind Generation during

June 12, 2024

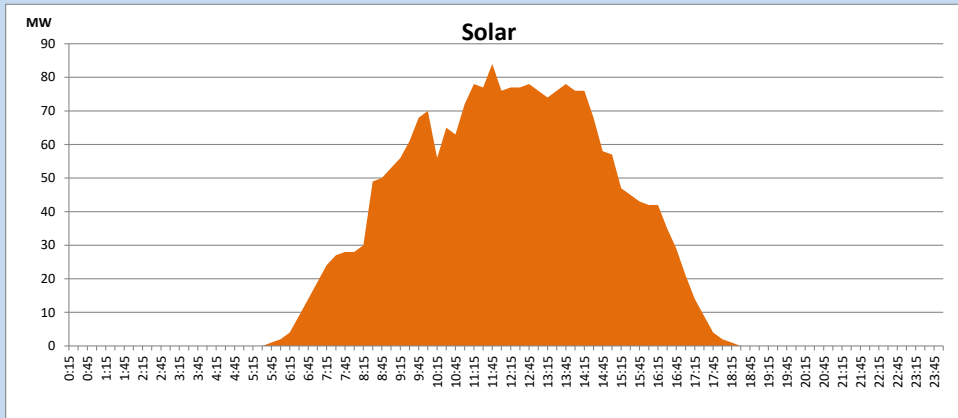
Based on Telemetered Power Stations only



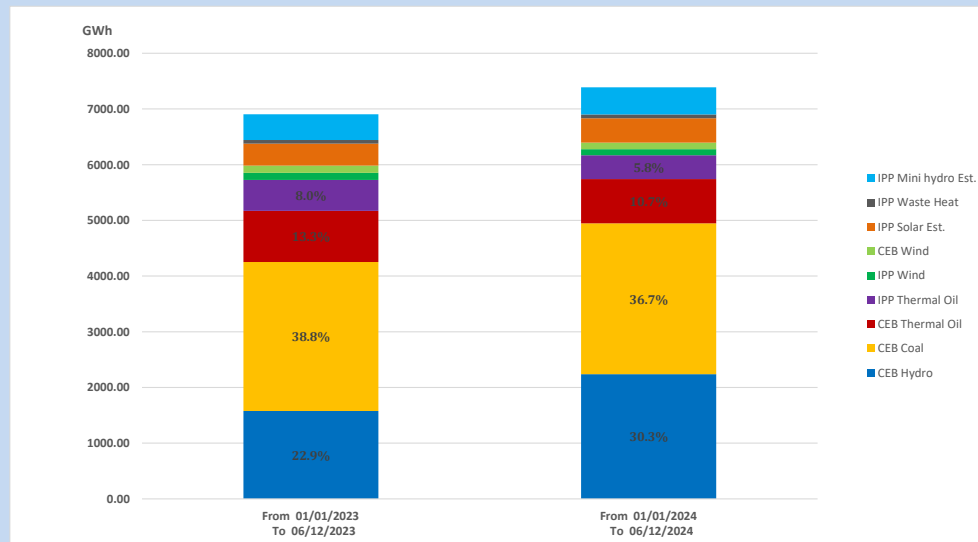
Solar Generation during

June 12, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 06/12/2023
 From 01/01/2024 To 06/12/2024

6903 GWh
 7389 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

June 12, 2024

- 1) Power barge made a forced shutdown at 10:36hrs due to the boiler feed water line leakage. The plant resumed generation at 12:20hrs.
- 2) Valachchenai 132/33kV T/F 01 tripped from both ends at 15:25hrs without any indications. At the same time, Valachchenai Feeder 06 tripped and A/R due to the operation of E/F protection. The T/F normalized at 15:47hrs.