

Generation and Reservoirs Statistics

July 4, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

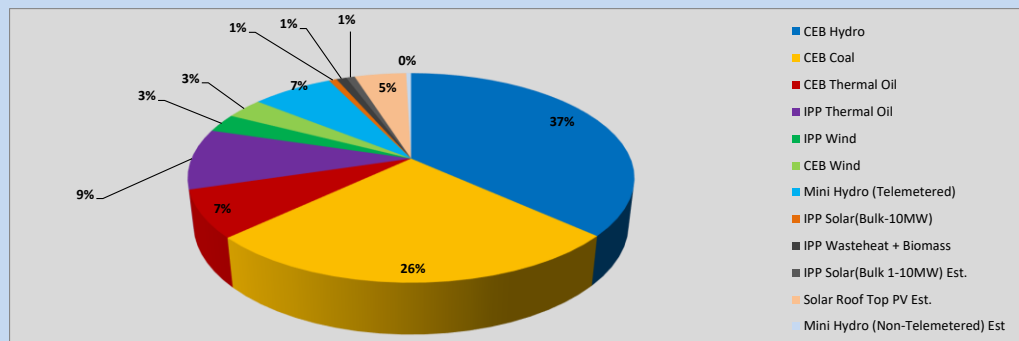


Table 01

	Generation (MWh)
CEB Hydro	17,778
CEB Coal	12,747
CEB Thermal Oil	3,534
IPP Thermal Oil	4,541
IPP Wind	1,391
CEB Wind	1,562
Mini Hydro (Telemetered)	3,399
IPP Solar (Bulk)	332
IPP Waste heat + Biomass	422
Total Generation (Excluding estimated figures)	45,706
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	205
* Estimated IPP Solar PV (Bulk 1-10MW)	360
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	48,441

* 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	66	34.18%
CEB Coal	65	33.49%
CEB Thermal Oil	14	7.26%
IPP Thermal	7	3.76%
SPP Wind	7	3.48%
CEB Wind	7	3.83%
Mini Hydro *	13	6.99%
IPP Solar *	12	6.21%
IPP Waste heat + BMP	2	0.79%
Total	193	

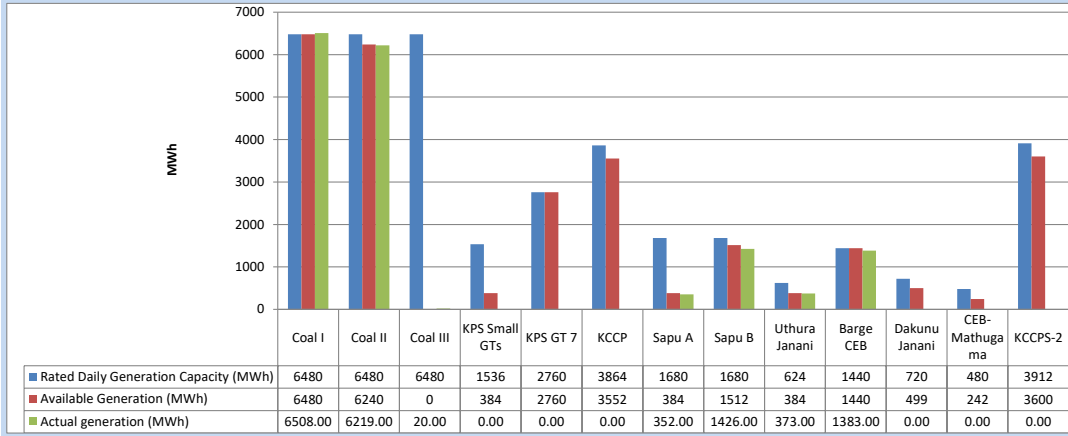
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,573	30.65%
CEB Coal	3,069	36.55%
CEB Thermal Oil	831	9.89%
IPP Thermal	441	5.25%
SPP Wind	159	1.89%
CEB Wind	163	1.95%
Mini Hydro *	563	6.70%
IPP Solar *	518	6.18%
IPP Waste heat	79	0.94%
Total	8,396	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

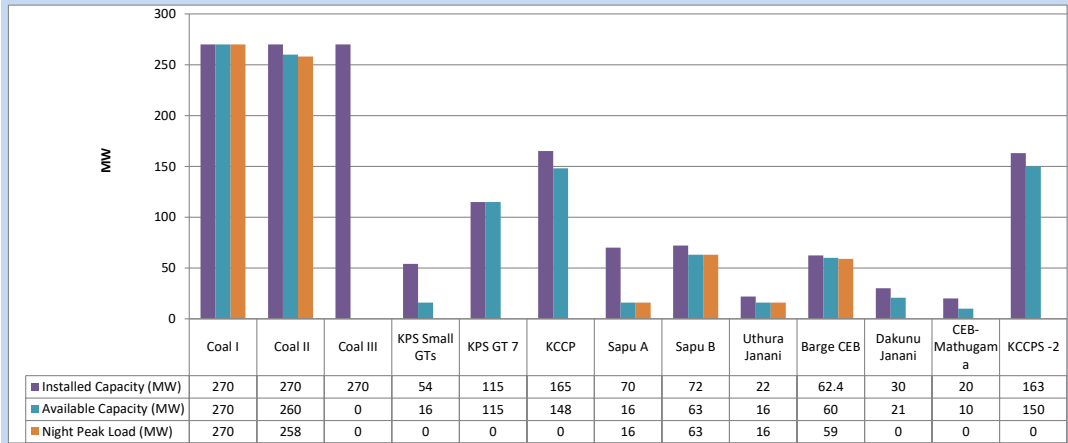
July 4, 2024



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

July 5, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

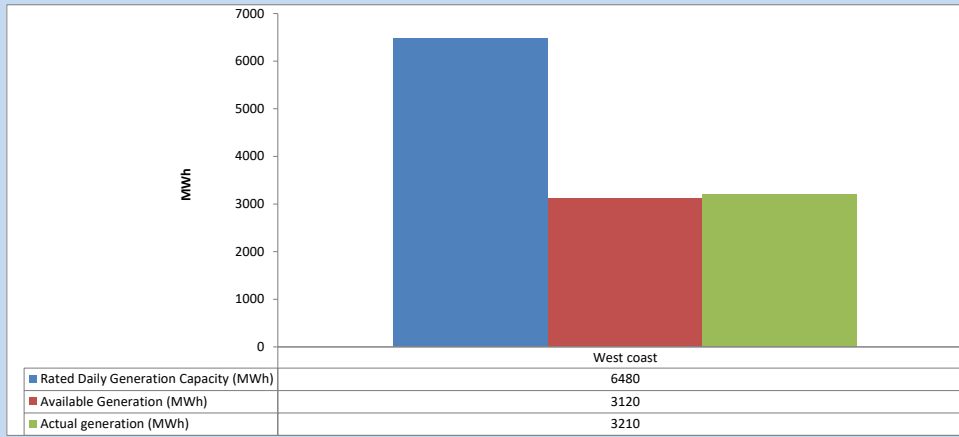


Plant availability is recorded at 6.00 am on

July 5, 2024

5. IPP owned Thermal Plant Dispatch

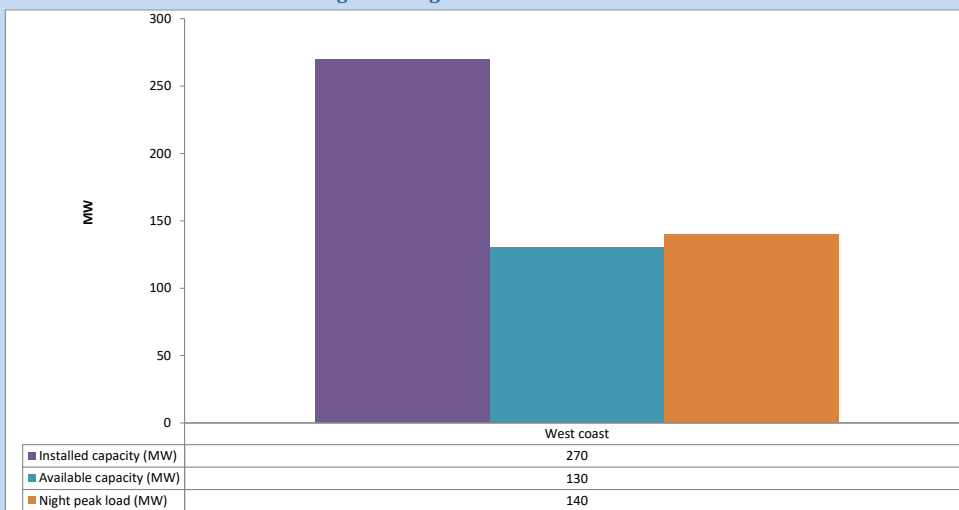
July 4, 2024



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

July 5, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

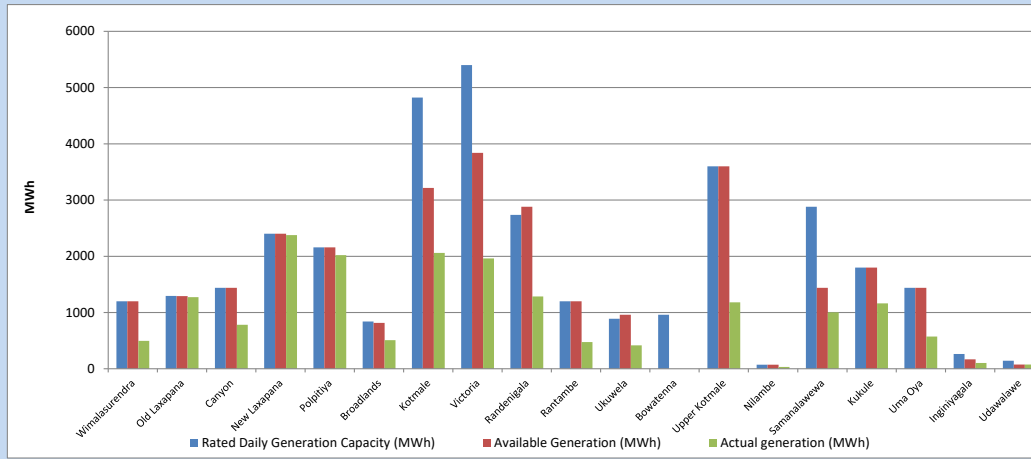


Plant availability is recorded at 6.00 am on

July 5, 2024

7. Major Hydro Plant Dispatch

July 4, 2024

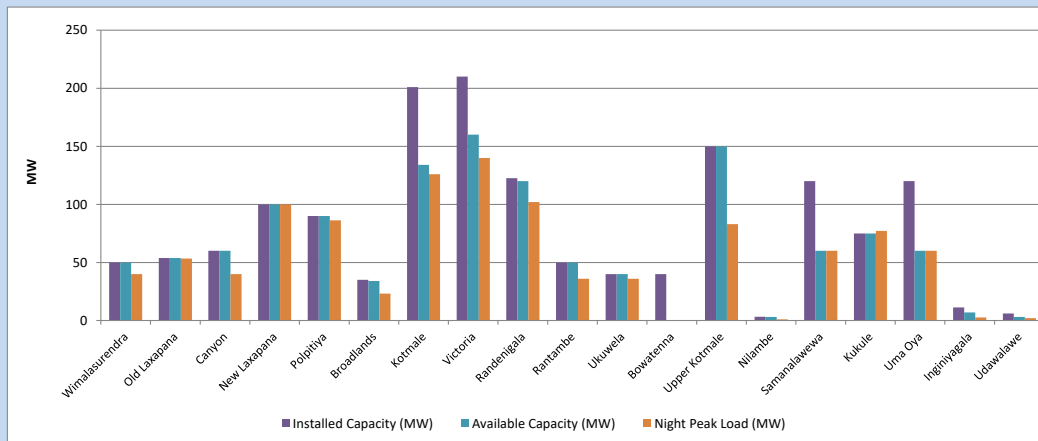


Available Generation is estimated based on plant availability at 6.00am on July 5, 2024
Broadlands power plant is operating in the Commissioning Stage

July 5, 2024

8. Major Hydro Plant Loading at Night Peak

July 4, 2024



Plant availability is recorded at 6.00 am on July 5, 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	40	495
Old Laxapana	54	54	53	1,272
Canyon	60	60	40	783
New Laxapana	100	100	100	2,376
Polpitiya	90	90	86	2,020
Broadlands	35	34	23	507
Kotmale	201	134	126	2,060
Victoria	210	160	140	1,961
Randenigala	123	120	102	1,287
Rantambe	50	50	36	474
Ukuwela	40	40	36	415
Bowatenna	40	0	0	0
Upper Kotmale	150	150	83	1,182
Nilambe	3	3	1	31
Samanalawewa	120	60	60	1,002
Kukule	75	75	77	1,163
Uma Oya (Testing)	120	60	60	574
Inginiyagala	11	7	3	104
Udawalawe	6	3	2	74
Puttalam Coal I	270	270	270	6,508
Puttalam Coal II	270	260	258	6,219
Puttalam Coal III	270	0	0	20
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	0	0
Sapugaskanda A	70	16	16	352
Sapugaskanda B	72	63	63	1,426
Uthura Janani	22	16	16	373
Barge CEB	62	60	59	1,383
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	10	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	150	0	0
West Coast	270	130	140	3,210
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	221	1,331
Total	3,594	2,525	2,154	45,708

Note-

Plant availability is the availability recorded at 6 am on
Installed Capacity is sourced from CEB Annual Report- 2022

July 5, 2024

10. Contribution to the Night Peak in MW

July 4, 2024

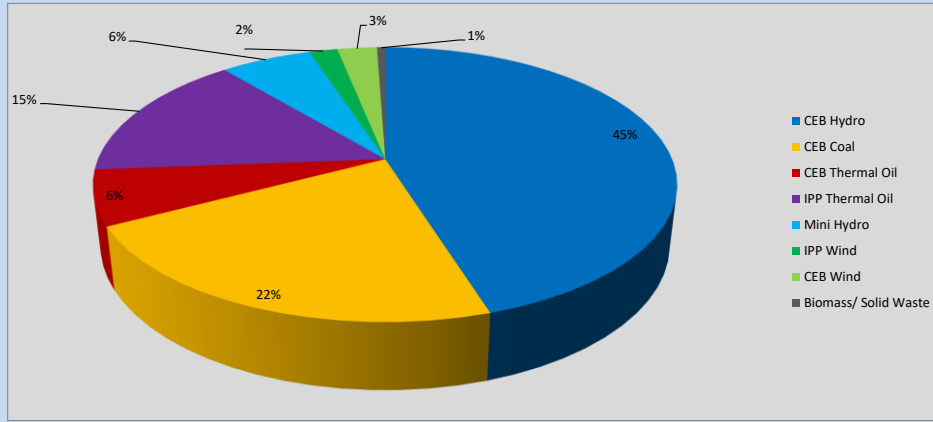


Table 06

CEB Hydro	1075	MW
CEB Coal	528	MW
CEB Thermal Oil	154	MW
IPP Thermal Oil	361	MW
Mini Hydro (Telemetered)	143	MW
IPP Wind	44.5	MW
CEB Wind	62.6	MW
Biomass/ Solid Waste	13	MW

Recorded Peak Demand Data

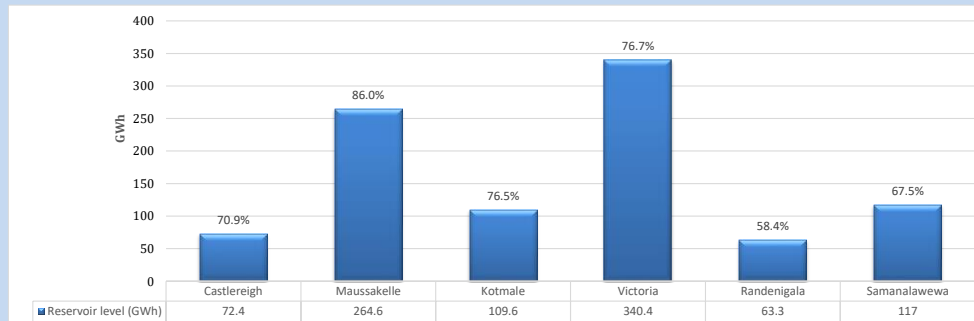
Table 07

Night Peak*	2,381	MW
Day Peak Maximum Demand	2,276	MW
Day Peak Minimum Demand	1,691	MW
Off Peak Minimum Demand	1,484	MW

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

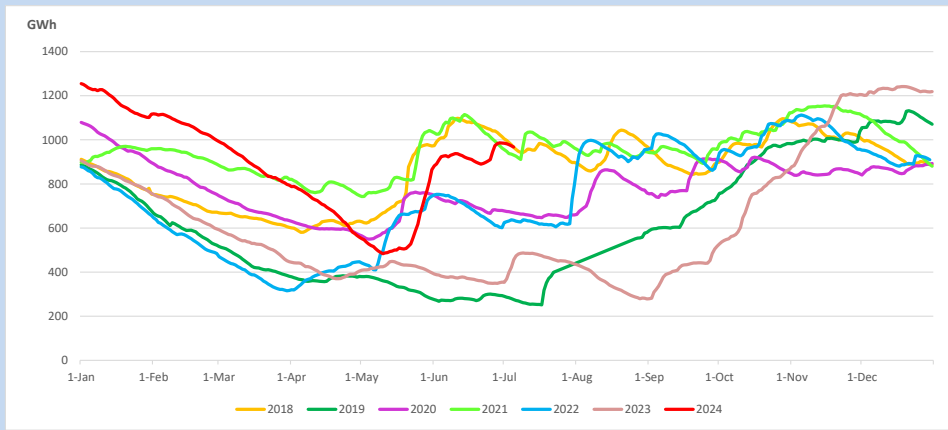
Reservoir Levels -

as at 06.00 Hr on July 5, 2024

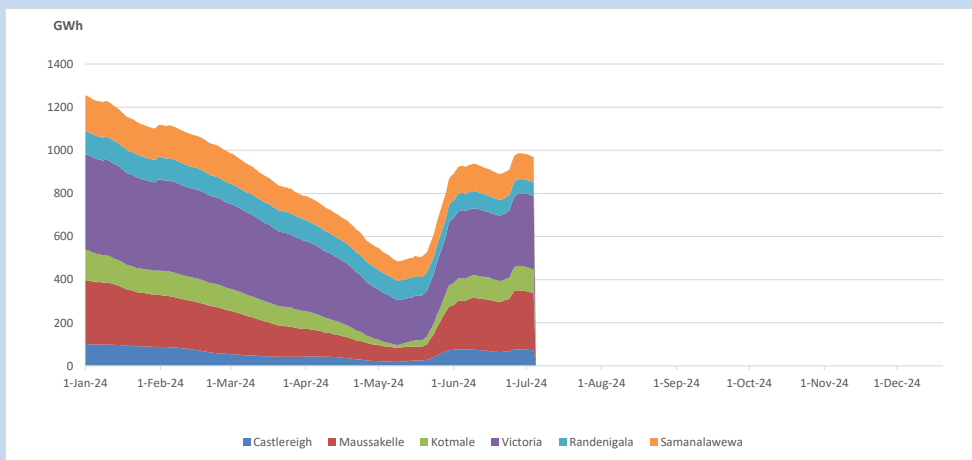


Total Reservoir Level 967.3 GWh
 % of Total capacity 75.7%

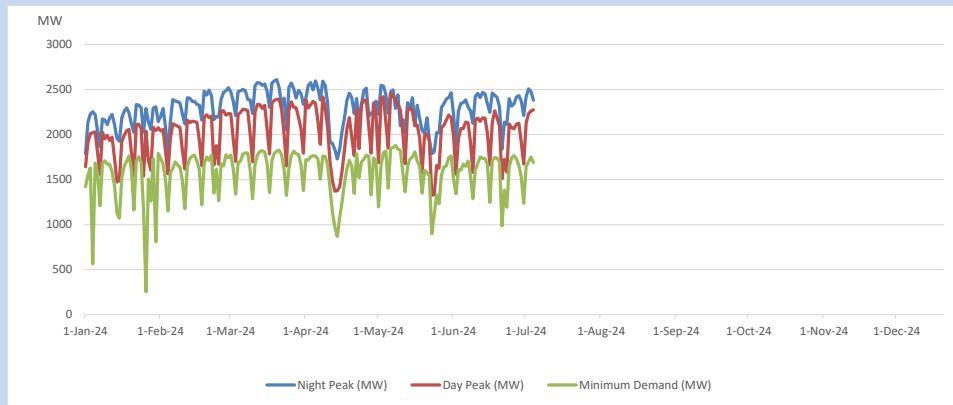
11. Comparison of Total Reservoir Storage Levels with Past Years



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



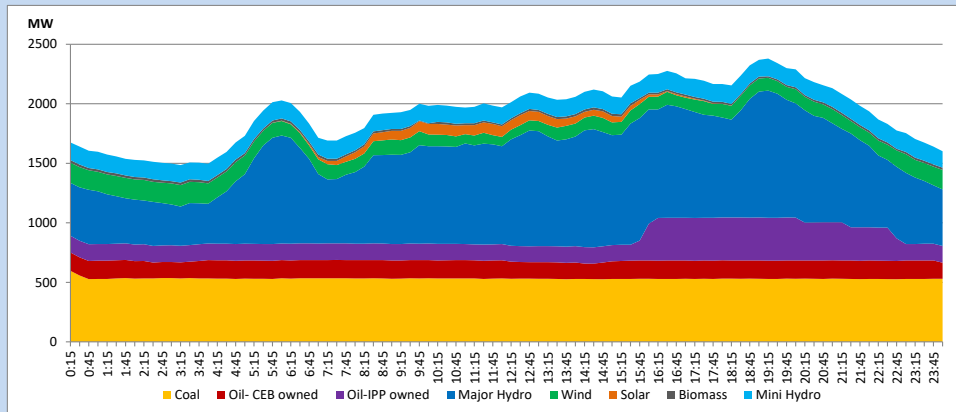
13. Variation of Demand during the current year



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

14. Daily Load Curve

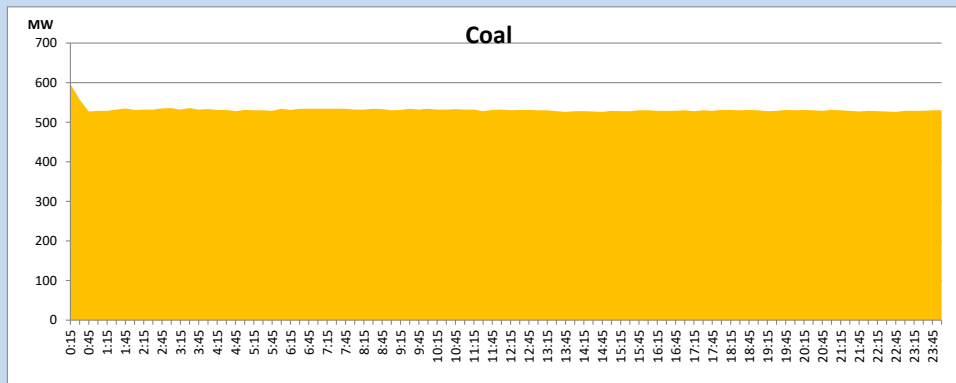
July 4, 2024



Solar and wind data is based on Telemetered Power Stations only

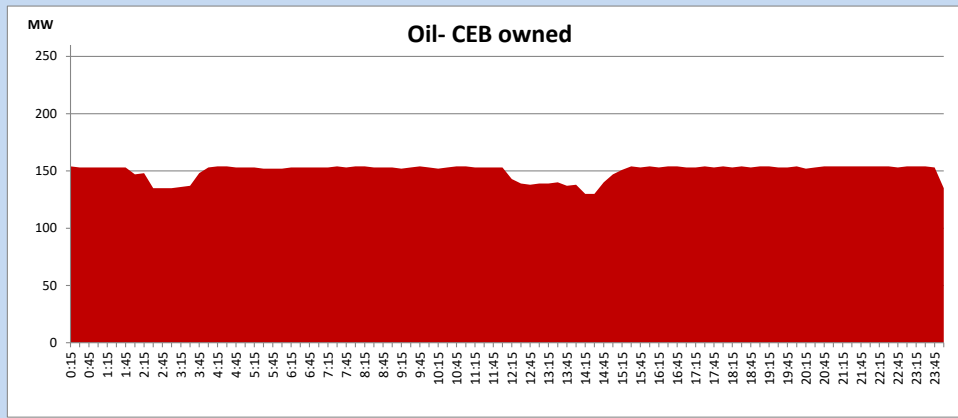
Coal Generation during

July 4, 2024



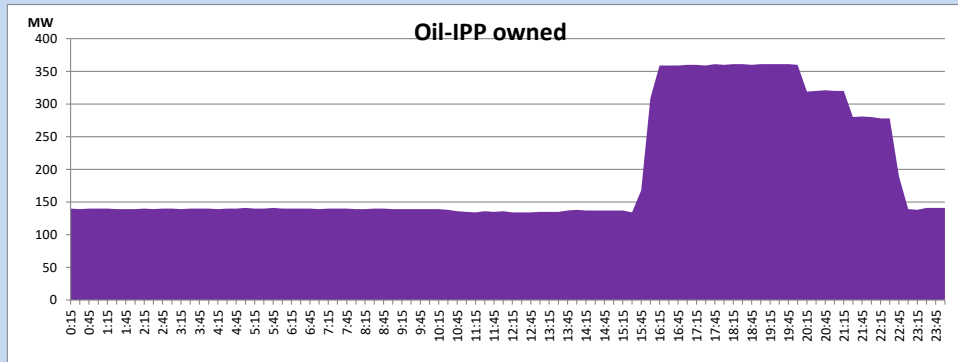
CEB Oil Plant Generation during

July 4, 2024



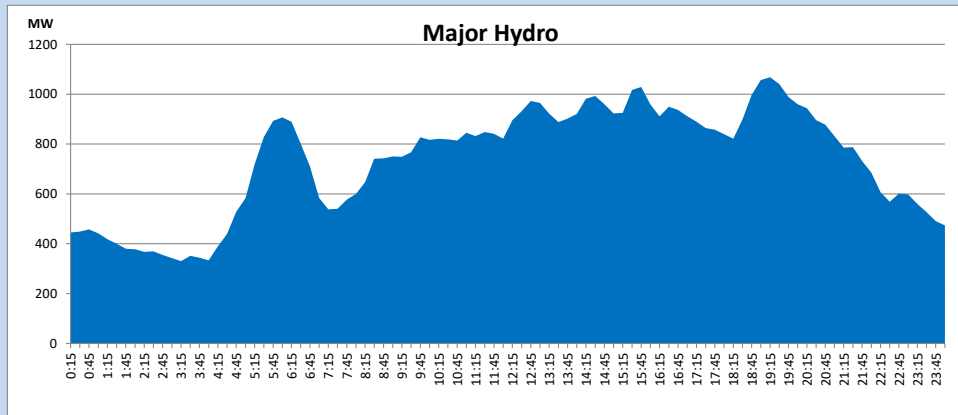
IPP Oil Plant Generation during

July 4, 2024



Major Hydro Generation during

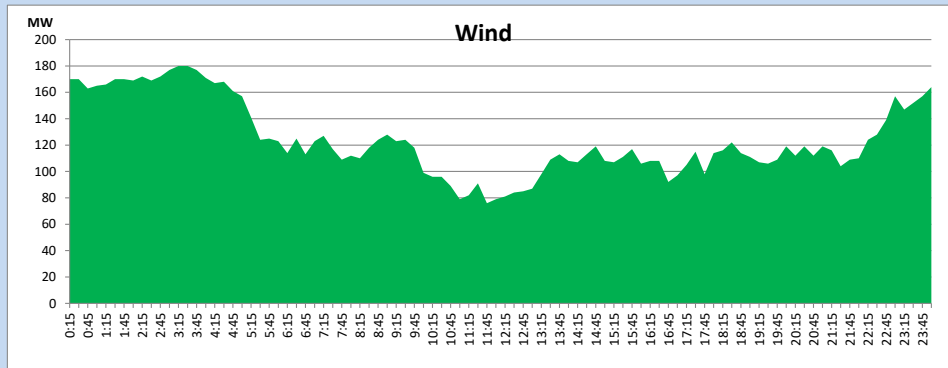
July 4, 2024



Wind Generation during

July 4, 2024

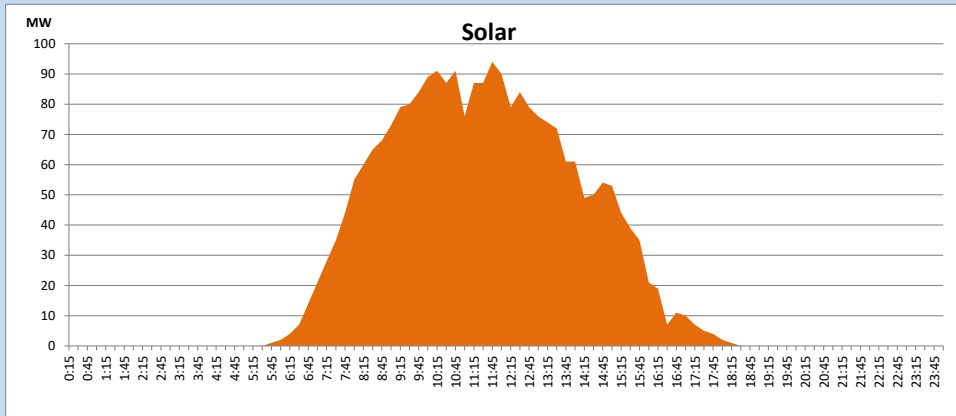
Based on Telemetered Power Stations only



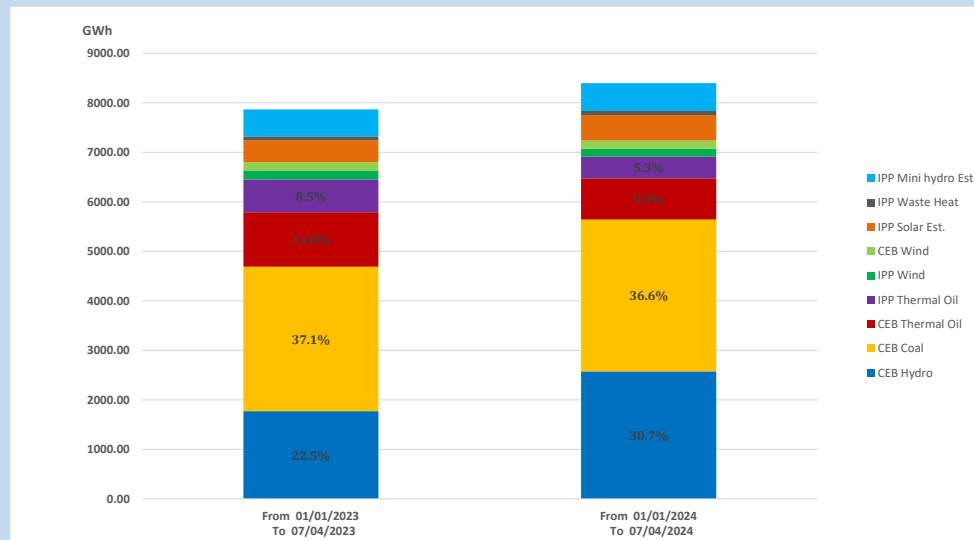
Solar Generation during

July 4, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/04/2023

7865 GWh

From 01/01/2024 To 07/04/2024

8396 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 4, 2024

- 1) Veyangoda 132/33kV T/F 02 tripped from both ends at 14:45hrs. At the same time, 33kV B/S 01 CB tripped due to overcurrent, causing all 33kV feeders to be dead (Veyangoda 132/33kV T/F 03 was released for routine maintenance). Veyangoda 132/33kV T/F 02 and B/S 01 CB restored at 15:17hrs and 15:18 hrs respectively. Veyangoda all feeders
- 2) Uma Oya (Dyraaba) pond
- 3) New Polpitiya 220/132kV T/F 01 tripped from both sides at 21:17hrs with Buchholz protection in the Y phase. The T/F is yet to be normalized.