

Generation and Reservoirs Statistics

July 12, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

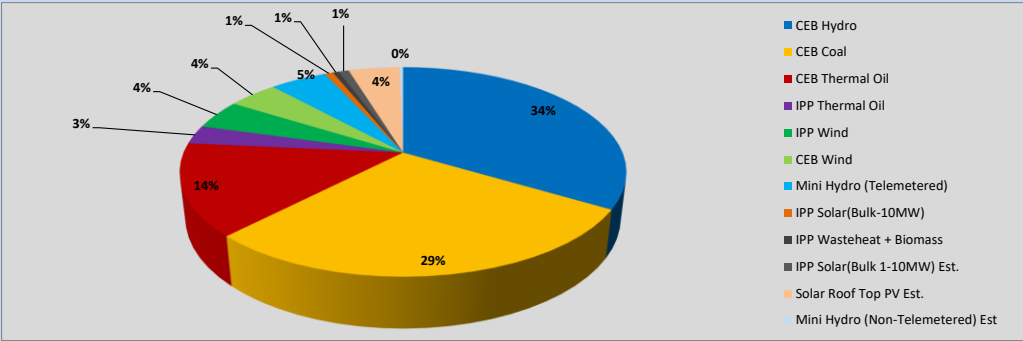


Table 01

	Generation (MWh)
CEB Hydro	16,417
CEB Coal	14,077
CEB Thermal Oil	6,956
IPP Thermal Oil	1,418
IPP Wind	2,207
CEB Wind	2,122
Mini Hydro (Telemetered)	2,408
IPP Solar (Bulk)	362
IPP Waste heat + Biomass	249
Total Generation (Excluding estimated figures)	46,216
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	145
* Estimated IPP Solar PV (Bulk 1-10MW)	435
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	48,966

* 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	193	34.57%
CEB Coal	167	29.80%
CEB Thermal Oil	55	9.89%
IPP Thermal	18	3.13%
SPP Wind	21	3.84%
CEB Wind	23	4.06%
Mini Hydro *	43	7.68%
IPP Solar *	35	6.27%
IPP Waste heat + BMP	4	0.76%
Total	560	

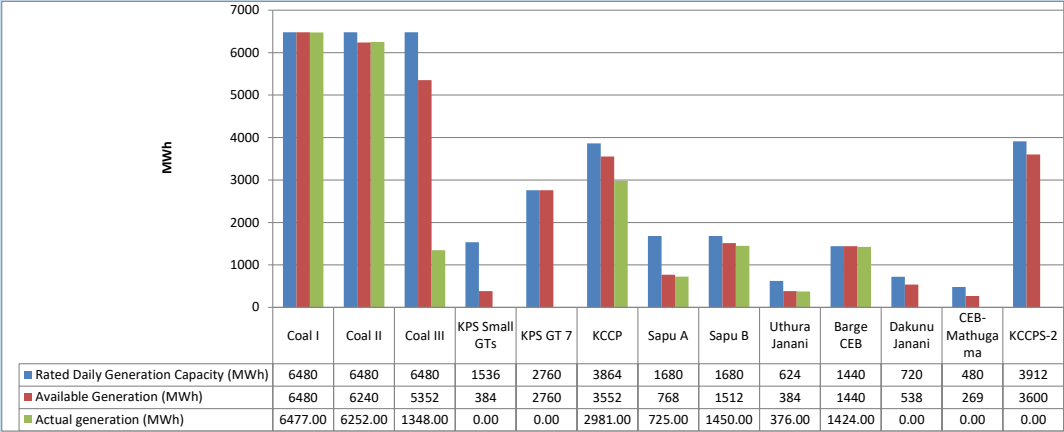
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,701	30.82%
CEB Coal	3,171	36.19%
CEB Thermal Oil	872	9.95%
IPP Thermal	451	5.15%
SPP Wind	174	1.98%
CEB Wind	179	2.04%
Mini Hydro *	592	6.76%
IPP Solar *	542	6.18%
IPP Waste heat	82	0.93%
Total	8,763	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

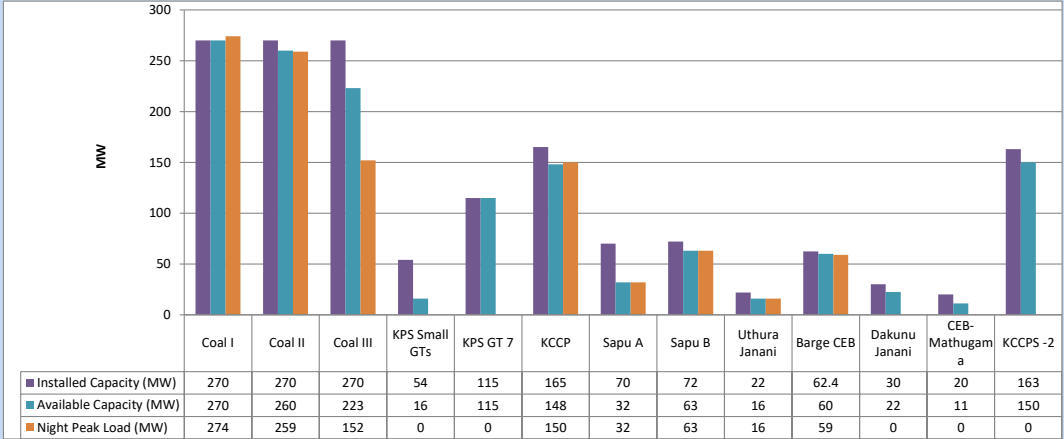
July 12, 2024



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

July 13, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

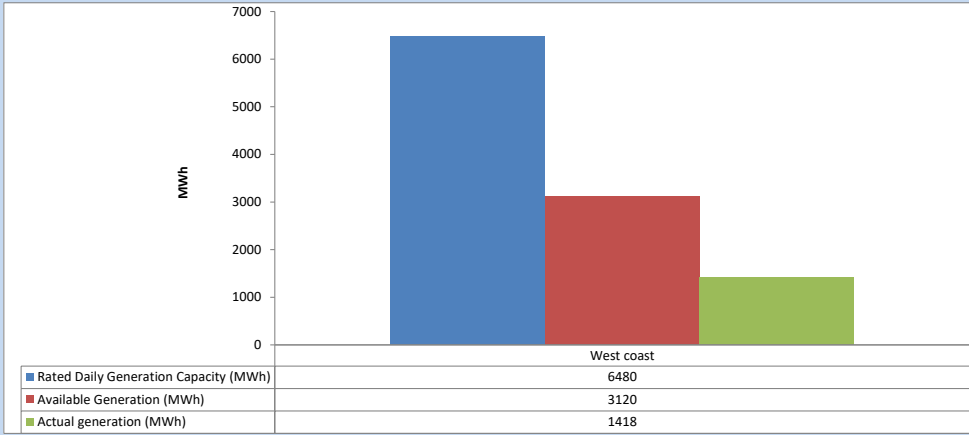


Plant availability is recorded at 6.00 am on

July 13, 2024

5. IPP owned Thermal Plant Dispatch

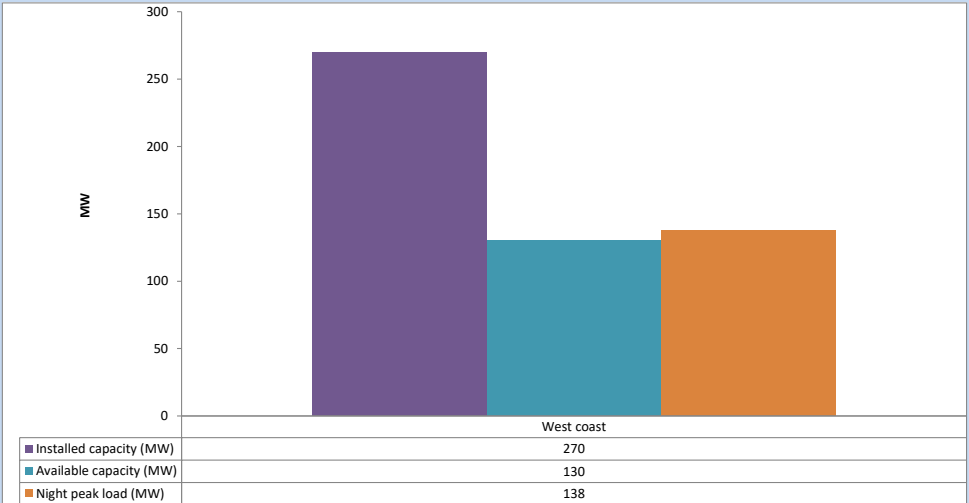
July 12, 2024



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

July 13, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

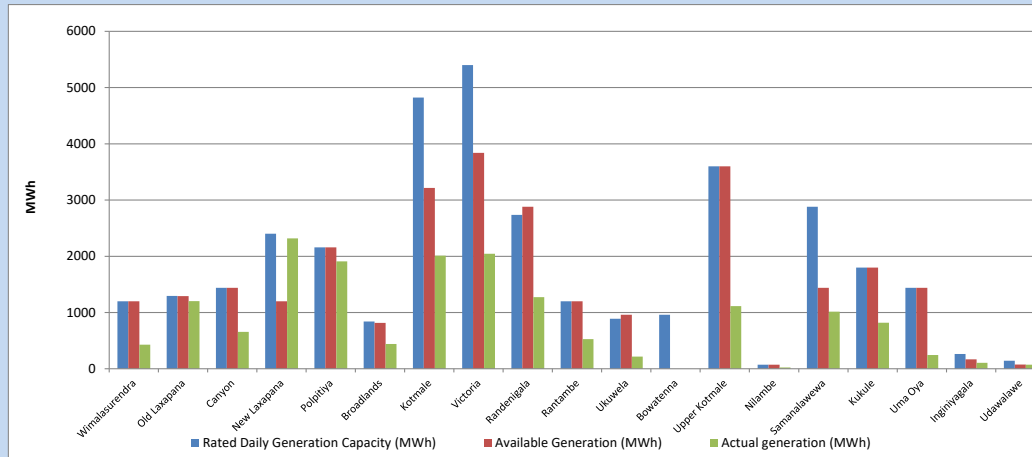


Plant availability is recorded at 6.00 am on

July 13, 2024

7. Major Hydro Plant Dispatch

July 12, 2024

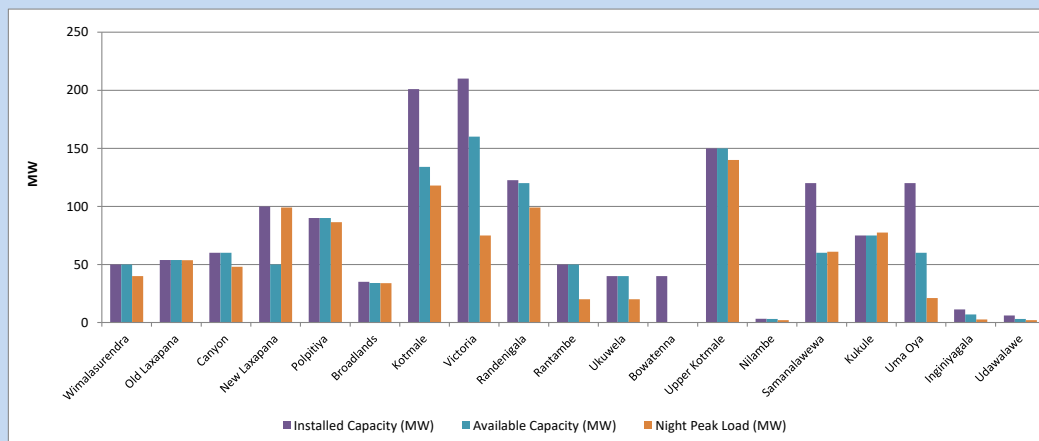


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 13, 2024

8. Major Hydro Plant Loading at Night Peak

July 12, 2024



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

July 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	40	429
Old Laxapana	54	54	54	1,202
Canyon	60	60	48	657
New Laxapana	100	50	99	2,318
Polpitiya	90	90	86	1,910
Broadlands	35	34	34	440
Kotmale	201	134	118	2,010
Victoria	210	160	75	2,046
Randenigala	123	120	99	1,272
Rantambe	50	50	20	527
Ukuwela	40	40	20	216
Bowatenna	40	0	0	0
Upper Kotmale	150	150	140	1,113
Nilambe	3	3	2	22
Samanalawewa	120	60	61	1,014
Kukule	75	75	77	819
Uma Oya (Testing)	120	60	21	245
Inginiyagala	11	7	3	105
Udawalawe	6	3	2	73
Puttalam Coal I	270	270	274	6,477
Puttalam Coal II	270	260	259	6,252
Puttalam Coal III	270	223	152	1,348
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	150	2,981
Sapugaskanda A	70	32	32	725
Sapugaskanda B	72	63	63	1,450
Uthura Janani	22	16	16	376
Barge CEB	62	60	59	1,424
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	1,418
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,717	2,464	46,217

Note-

Plant availability is the availability recorded at 6 am on

July 13, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

July 12, 2024

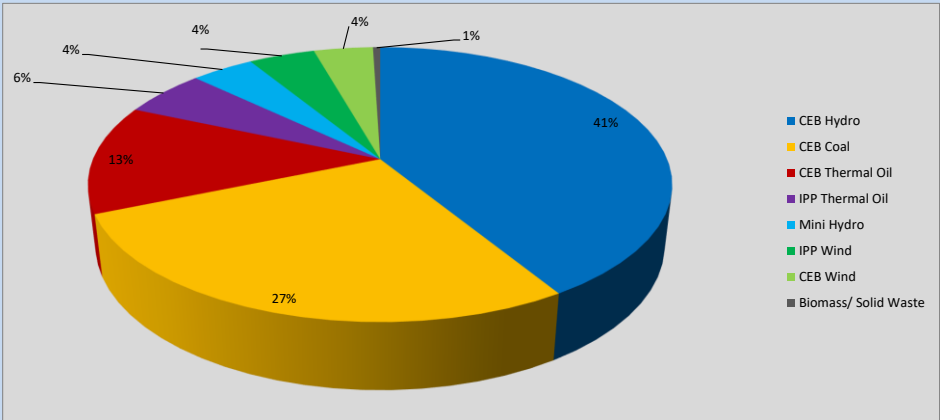


Table 06

CEB Hydro	1028	MW
CEB Coal	685	MW
CEB Thermal Oil	320	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	104	MW
IPP Wind	109	MW
CEB Wind	97.7	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

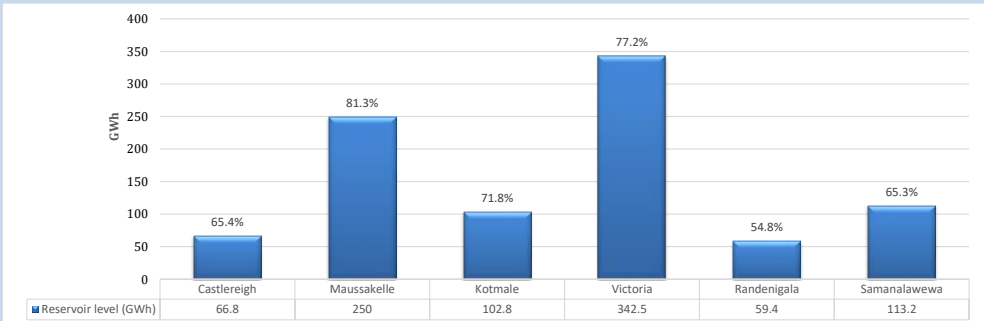
Table 07

Night Peak*	2,493	MW
Day Peak Maximum Demand	2,219	MW
Day Peak Minimum Demand	1,767	MW
Off Peak Minimum Demand	1,538	MW

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

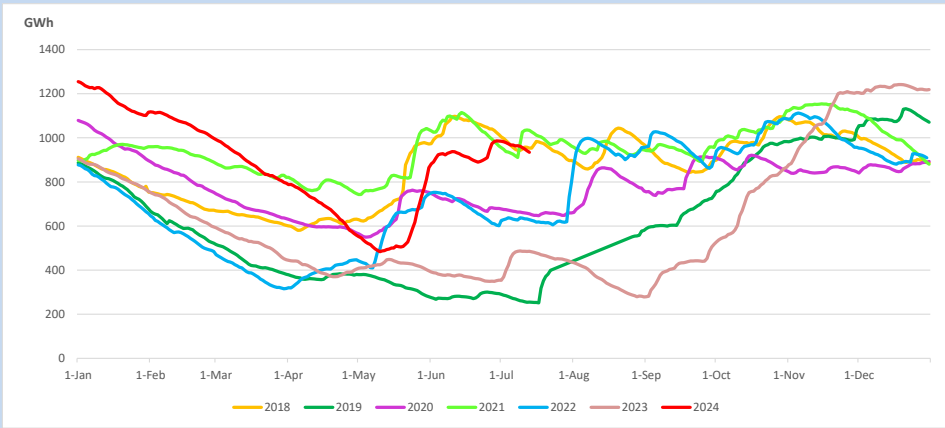
Reservoir Levels -

as at 06.00 Hr on July 13, 2024

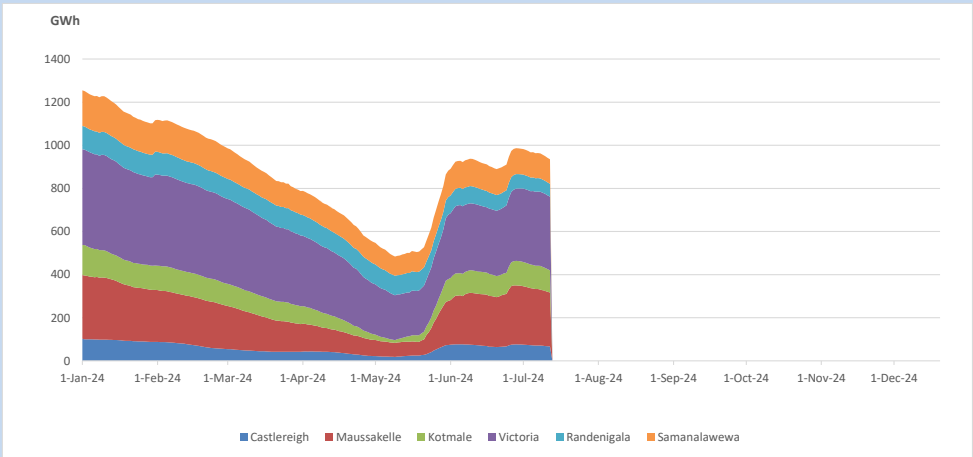


Total Reservoir Level 934.7 GWh
% of Total capacity 73.1%

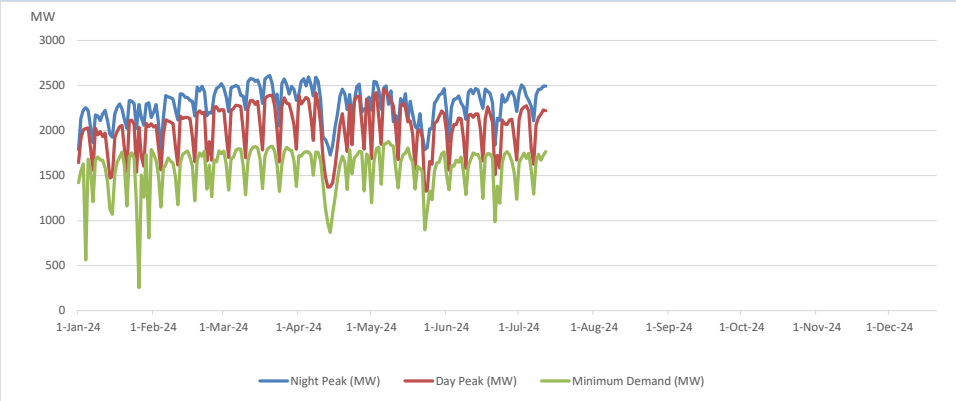
11. Comparison of Total Reservoir Storage Levels with Past Years



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

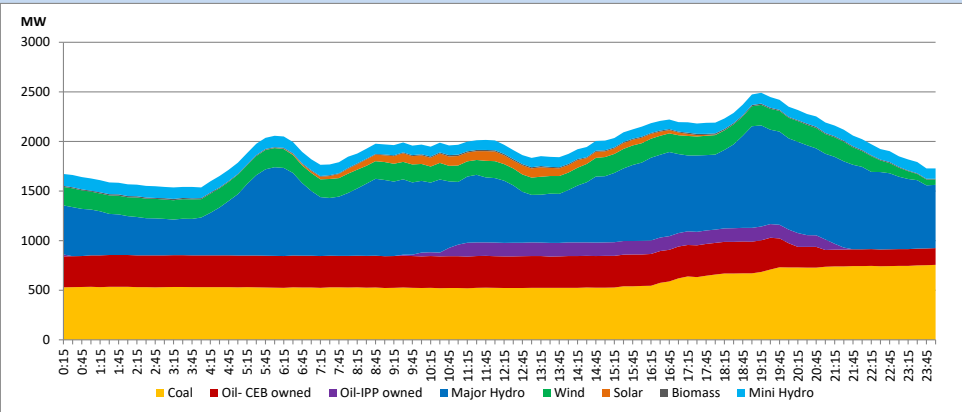


13. Variation of Demand during the current year



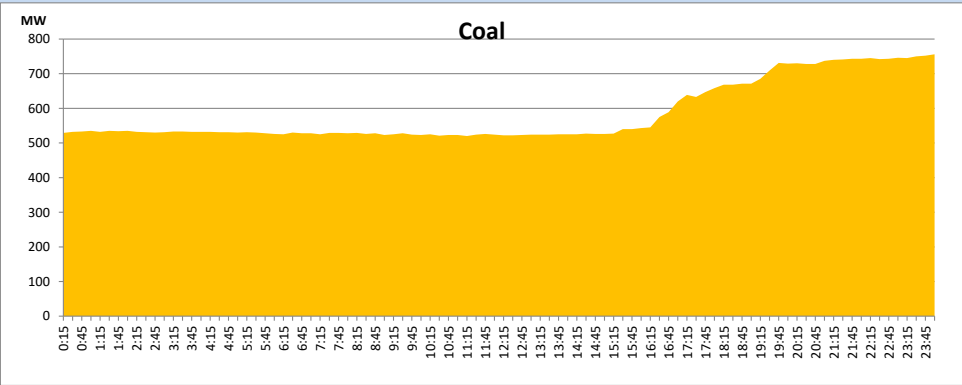
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve July 12, 2024



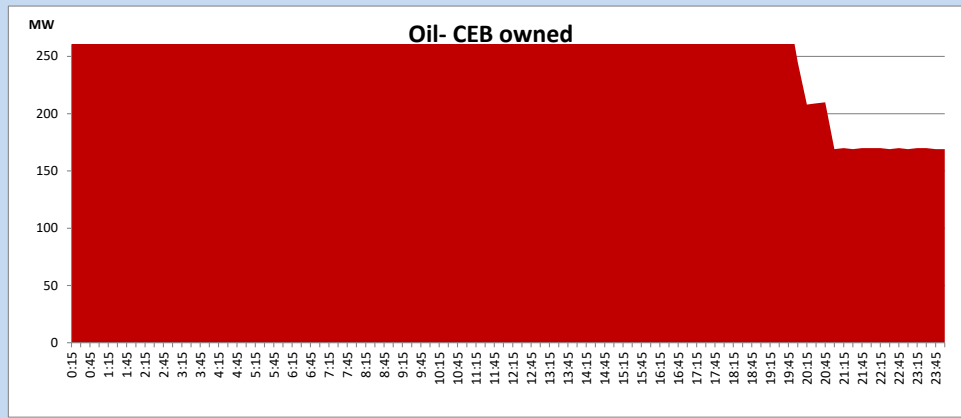
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during July 12, 2024



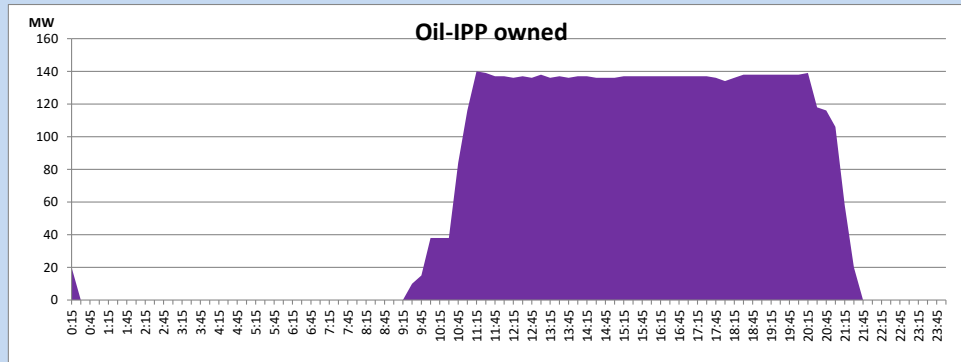
CEB Oil Plant Generation during

July 12, 2024



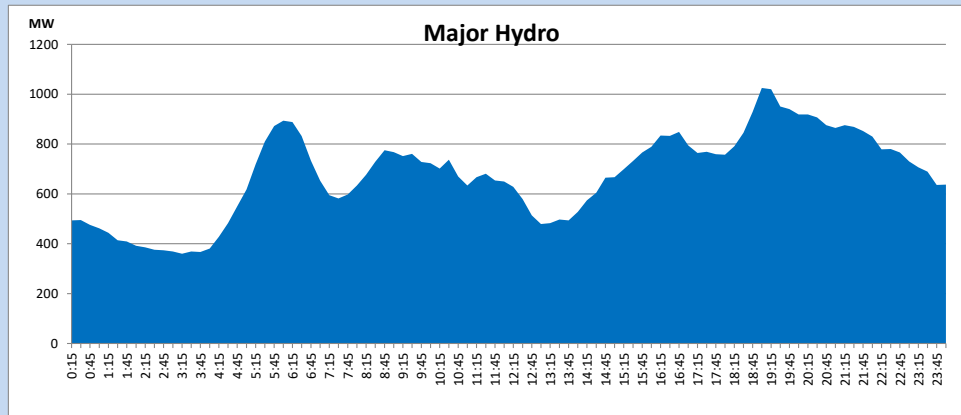
IPP Oil Plant Generation during

July 12, 2024



Major Hydro Generation during

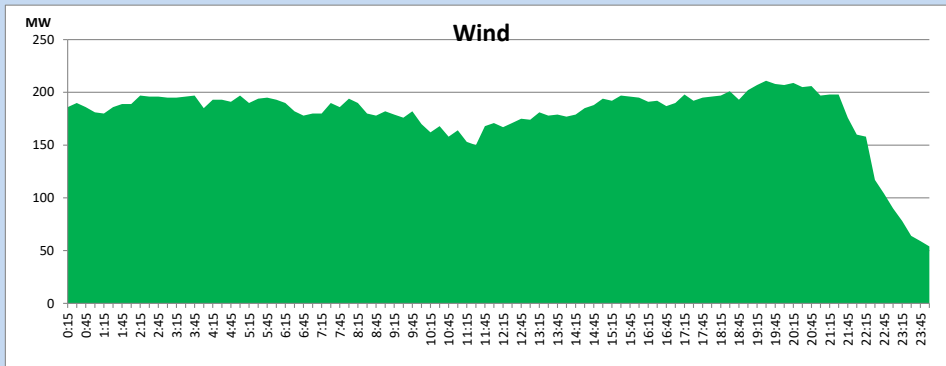
July 12, 2024



Wind Generation during

July 12, 2024

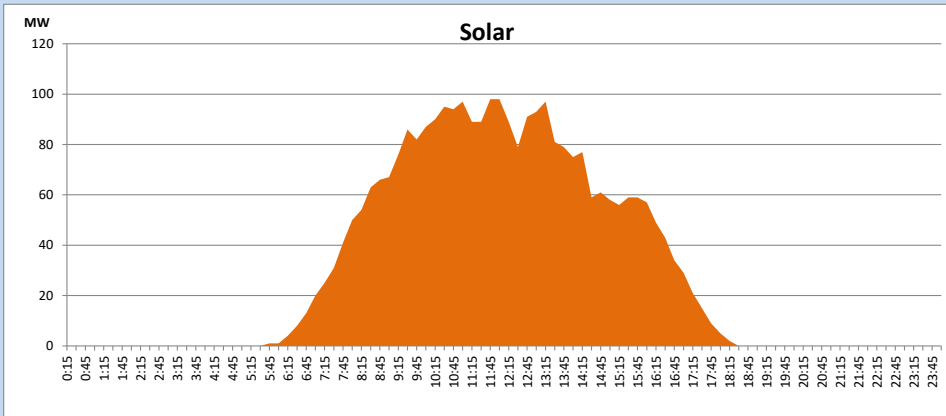
Based on Telemetered Power Stations only



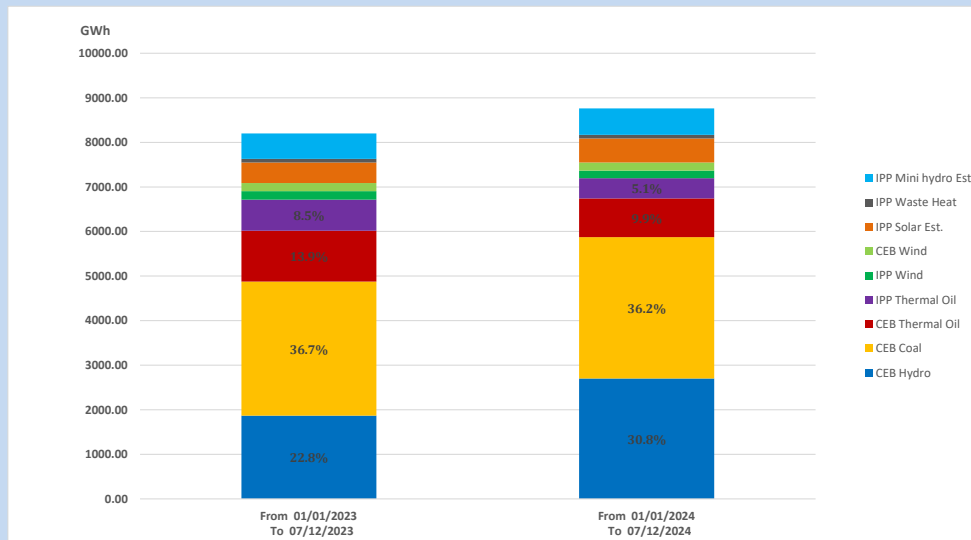
Solar Generation during

July 12, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/12/2023

8200 GWh

From 01/01/2024 To 07/12/2024

8763 GWh

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

Unservd 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 12, 2024

- 1) Kelanitissa 220/132kV T/F 01 was energized from 220kV side for the soak test at 16:39hrs.
- 2) LVPS Unit 03 synchronized at 15:25hrs and reached 196MW (net) at 19:38hrs.
- 3) Madampe 132/33kV T/F 01 tripped at 18:33hrs due to the operation of REF protection. The T/F was normalized at 21:42hrs.