

Generation and Reservoirs Statistics

July 1, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

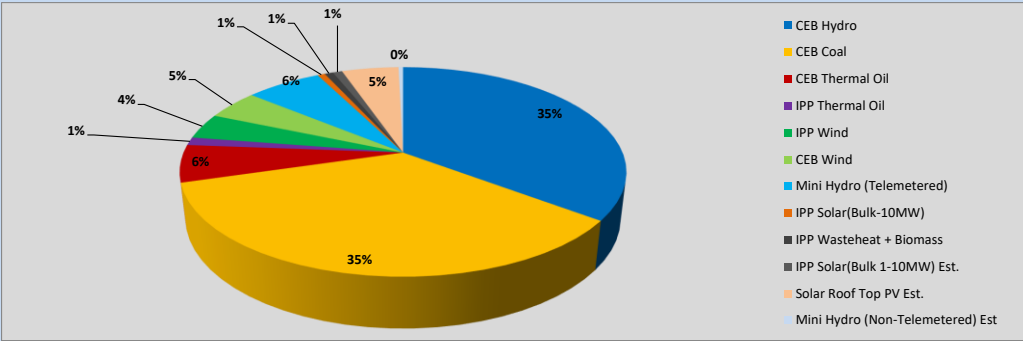


Table 01

	Generation (MWh)
CEB Hydro	16,631
CEB Coal	16,619
CEB Thermal Oil	2,717
IPP Thermal Oil	585
IPP Wind	1,854
CEB Wind	2,162
Mini Hydro (Telemetered)	3,089
IPP Solar (Bulk)	307
IPP Waste heat + Biomass	344
Total Generation (Excluding estimated figures)	44,308
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	186
* Estimated IPP Solar PV (Bulk 1-10MW)	384
* Estimated Solar Roof Top PV	2320
Total Generation (Including estimated figures)	47,198

* 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	17	35.26%
CEB Coal	17	35.22%
CEB Thermal Oil	3	5.74%
IPP Thermal	1	1.23%
SPP Wind	2	3.92%
CEB Wind	2	4.58%
Mini Hydro *	3	6.95%
IPP Solar *	3	6.38%
IPP Waste heat + BMP	0	0.72%
Total	47	

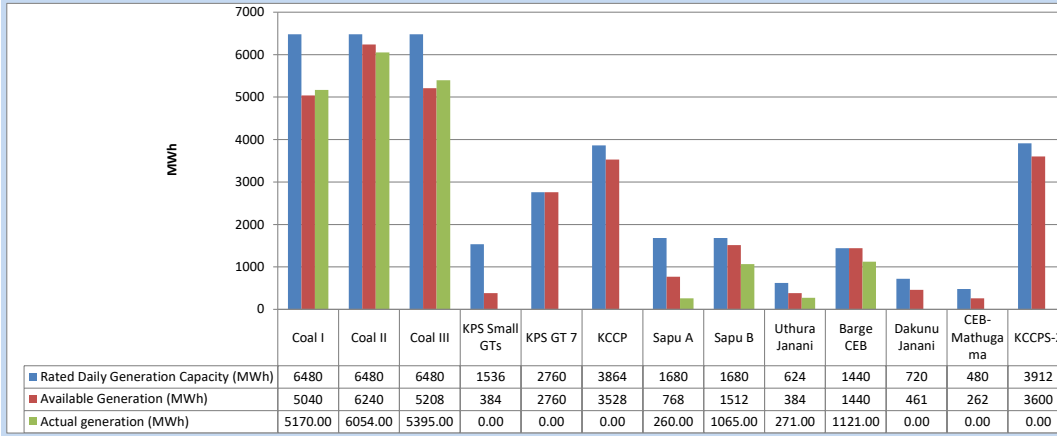
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,526	30.64%
CEB Coal	3,021	36.65%
CEB Thermal Oil	820	9.94%
IPP Thermal	433	5.26%
SPP Wind	152	1.85%
CEB Wind	158	1.92%
Mini Hydro *	564	6.85%
IPP Solar *	494	6.00%
IPP Waste heat	73	0.89%
Total	8,243	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

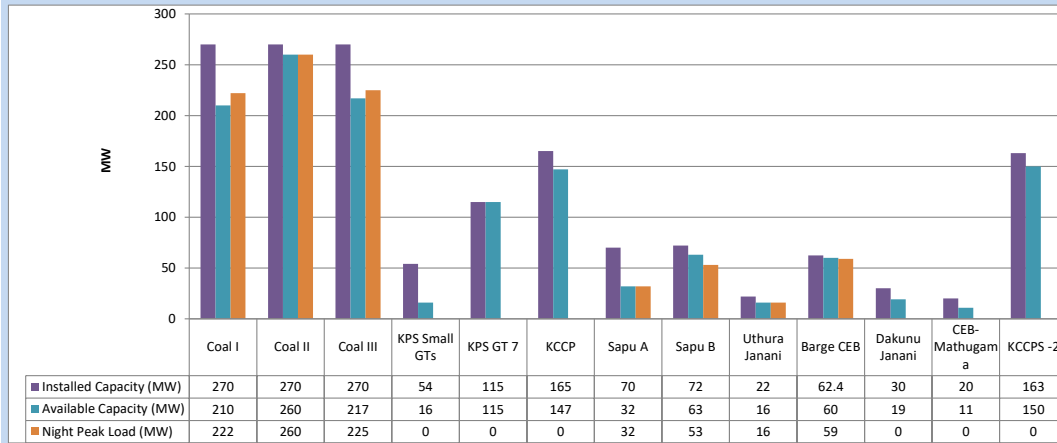
July 1, 2024



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

July 2, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

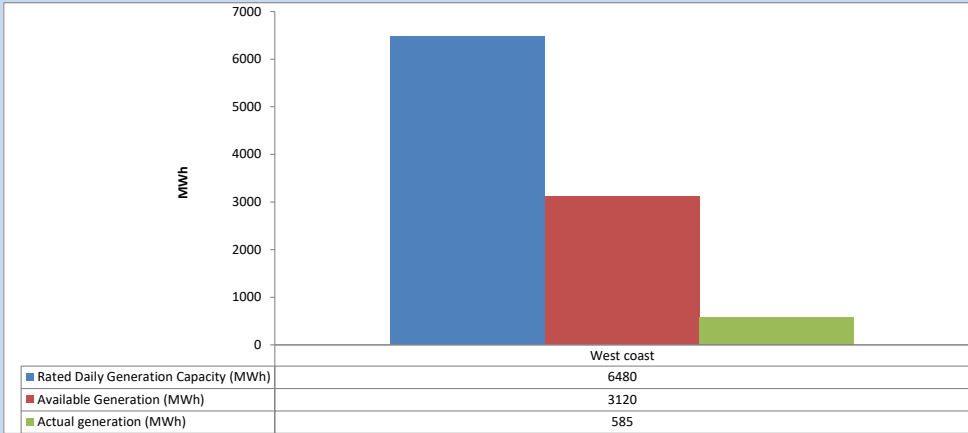


Plant availability is recorded at 6.00 am on

July 2, 2024

5. IPP owned Thermal Plant Dispatch

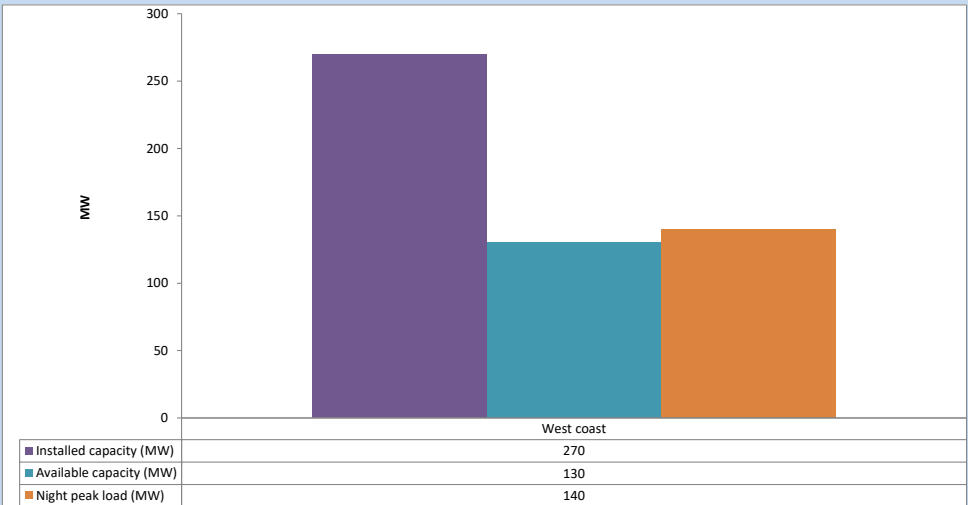
July 1, 2024



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

July 2, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

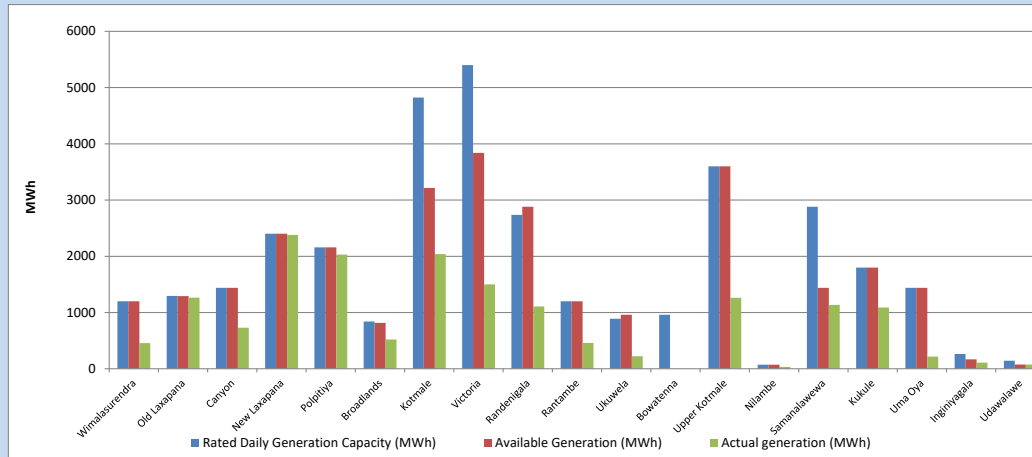


Plant availability is recorded at 6.00 am on

July 2, 2024

7. Major Hydro Plant Dispatch

July 1, 2024

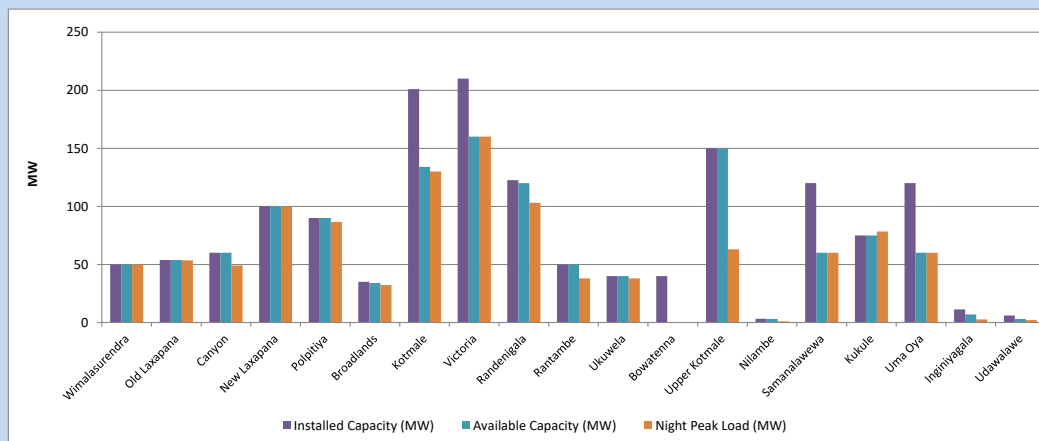


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 2, 2024

8. Major Hydro Plant Loading at Night Peak

July 1, 2024



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

July 2, 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	455
Old Laxapana	54	54	54	1,263
Canyon	60	60	49	729
New Laxapana	100	100	100	2,381
Polpitiya	90	90	87	2,030
Broadlands	35	34	32	521
Kotmale	201	134	130	2,040
Victoria	210	160	160	1,501
Randenigala	123	120	103	1,107
Rantambe	50	50	38	459
Ukuwela	40	40	38	224
Bowatenna	40	0	0	0
Upper Kotmale	150	150	63	1,261
Nilambe	3	3	1	33
Samanalawewa	120	60	60	1,135
Kukule	75	75	78	1,090
Uma Oya (Testing)	120	60	60	218
Inginiyagala	11	7	3	109
Udawalawe	6	3	2	75
Puttalam Coal I	270	210	222	5,170
Puttalam Coal II	270	260	260	6,054
Puttalam Coal III	270	217	225	5,395
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	0	0
Sapugaskanda A	70	32	32	260
Sapugaskanda B	72	63	53	1,065
Uthura Janani	22	16	16	271
Barge CEB	62	60	59	1,121
CEB-Hambantota	30	19	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	140	585
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,696	2,416	44,308

Note-

Plant availability is the availability recorded at 6 am on

July 2, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

July 1, 2024

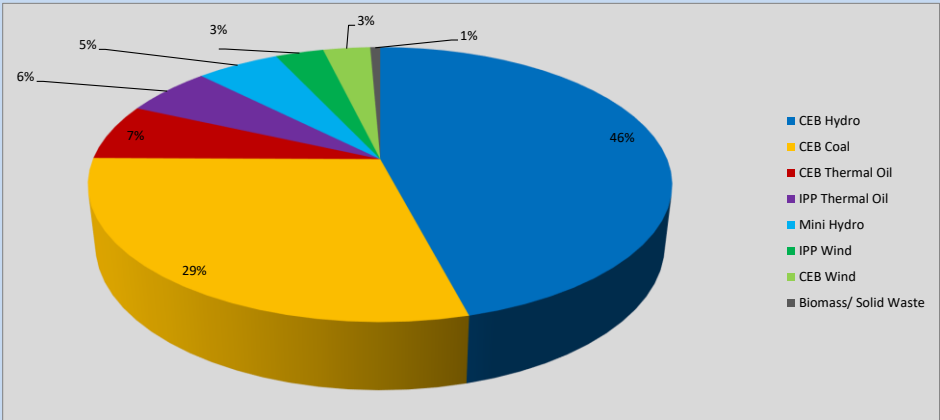


Table 06

CEB Hydro	1111	MW
CEB Coal	707	MW
CEB Thermal Oil	160	MW
IPP Thermal Oil	140	MW
Mini Hydro (Telemetered)	133	MW
IPP Wind	77.4	MW
CEB Wind	75.4	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

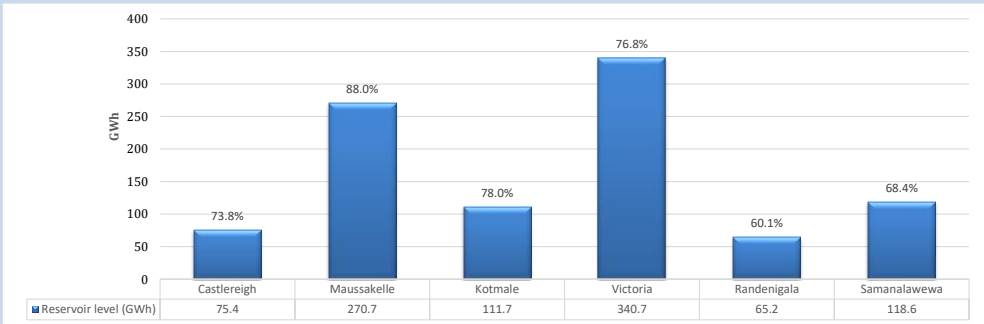
Table 07

Night Peak*	2,420	MW
Day Peak Maximum Demand	2,126	MW
Day Peak Minimum Demand	1,643	MW
Off Peak Minimum Demand	1,373	MW

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

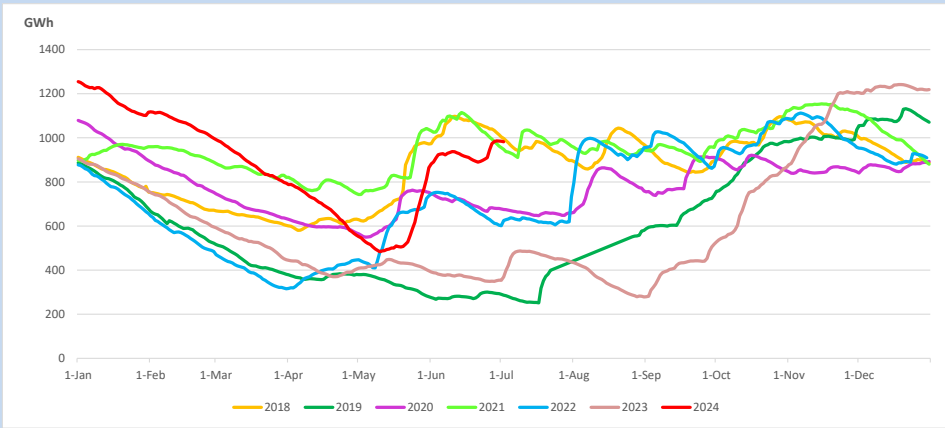
Reservoir Levels -

as at 06.00 Hr on July 2, 2024

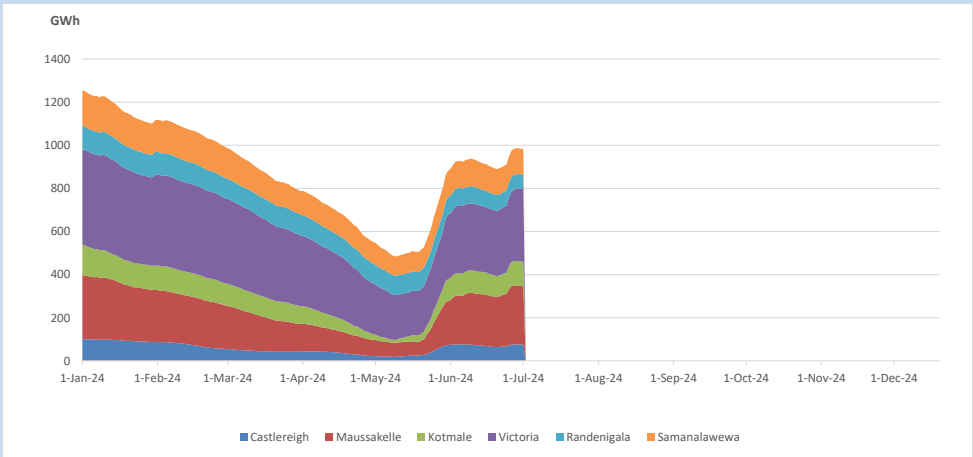


Total Reservoir Level 982.3 GWh
% of Total capacity 76.8%

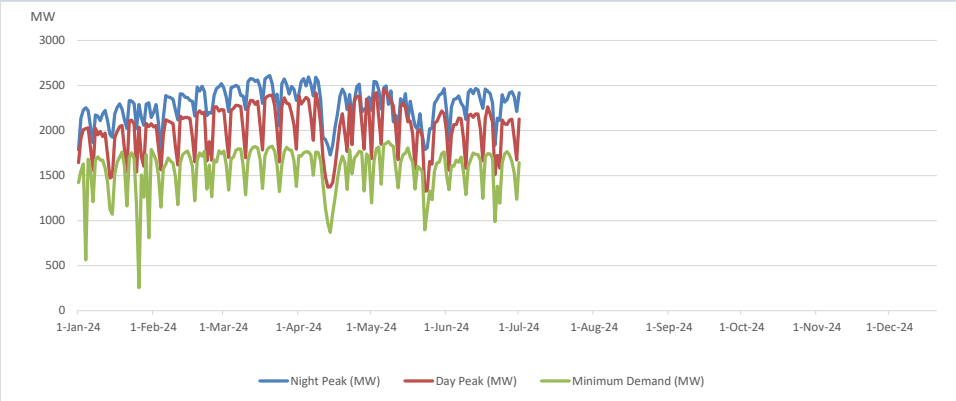
11. Comparison of Total Reservoir Storage Levels with Past Years



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



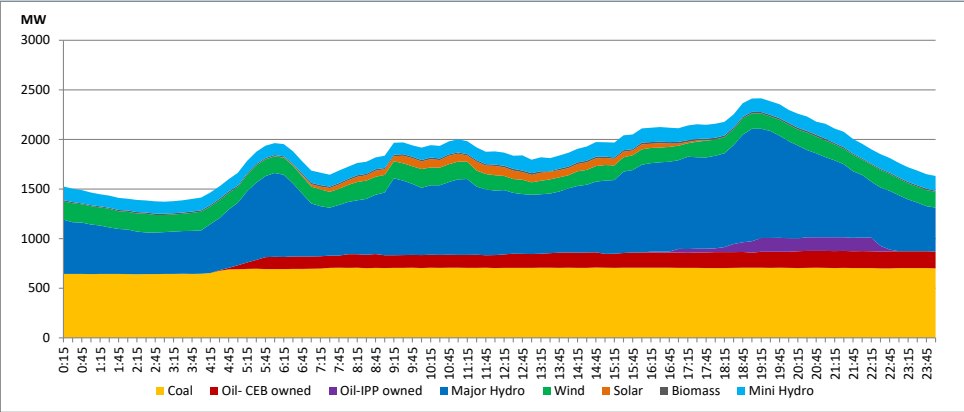
13. Variation of Demand during the current year



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

14. Daily Load Curve

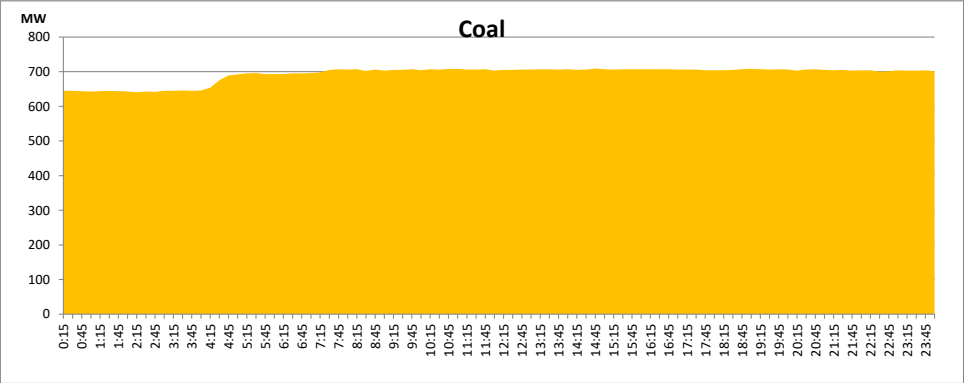
July 1, 2024



Solar and wind data is based on Telemetered Power Stations only

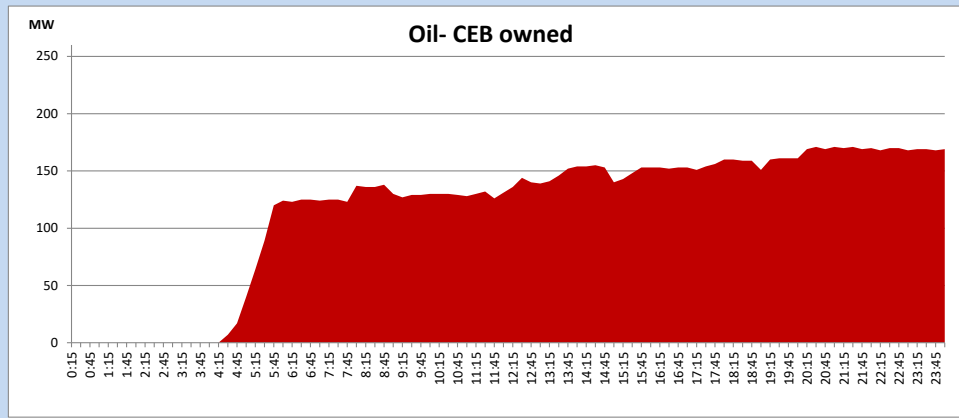
Coal Generation during

July 1, 2024



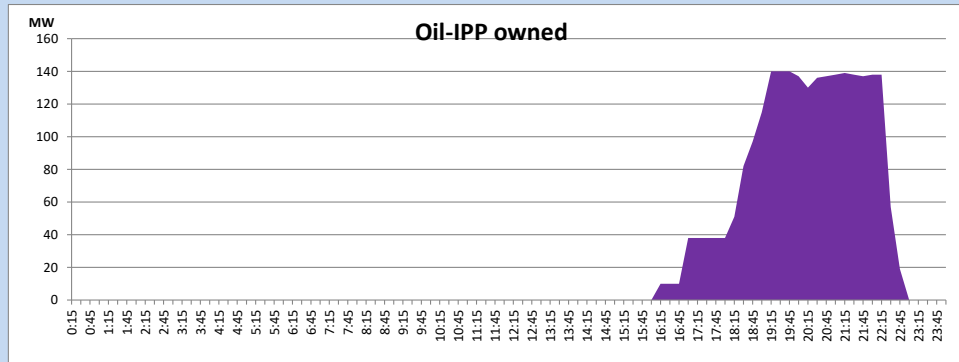
CEB Oil Plant Generation during

July 1, 2024



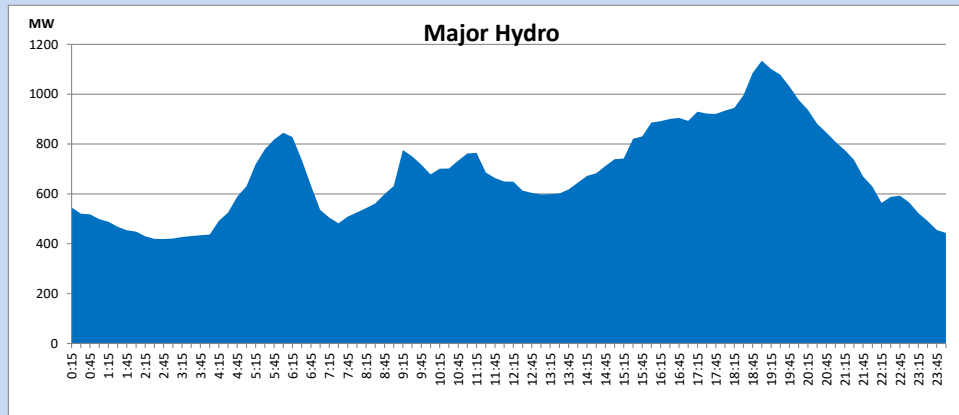
IPP Oil Plant Generation during

July 1, 2024



Major Hydro Generation during

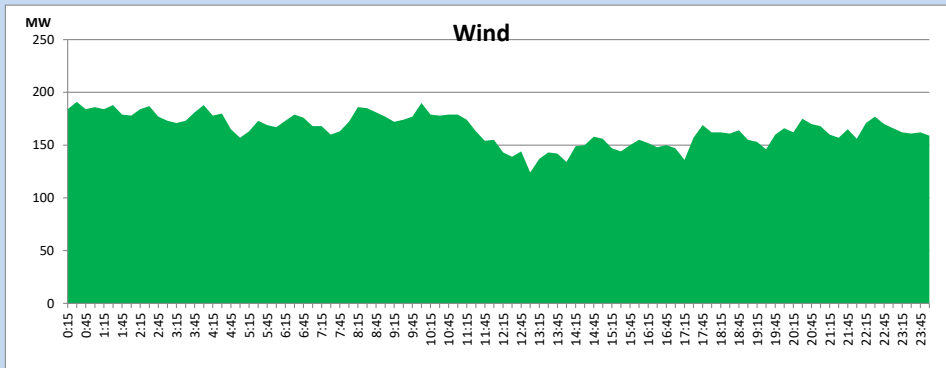
July 1, 2024



Wind Generation during

July 1, 2024

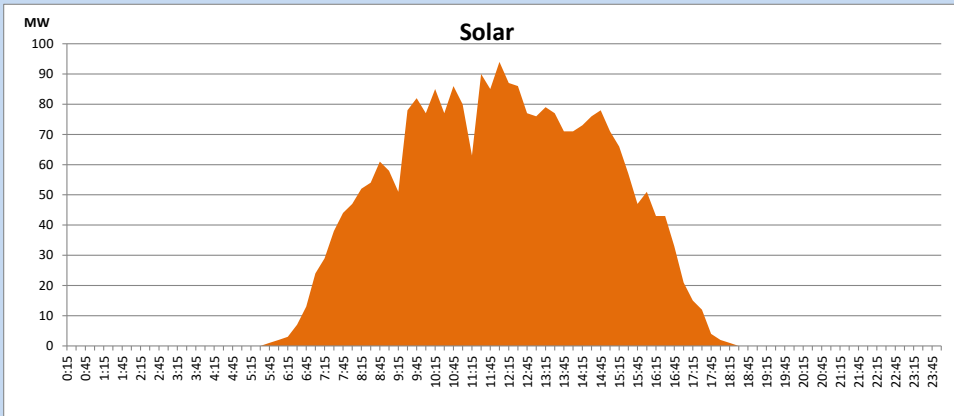
Based on Telemetered Power Stations only



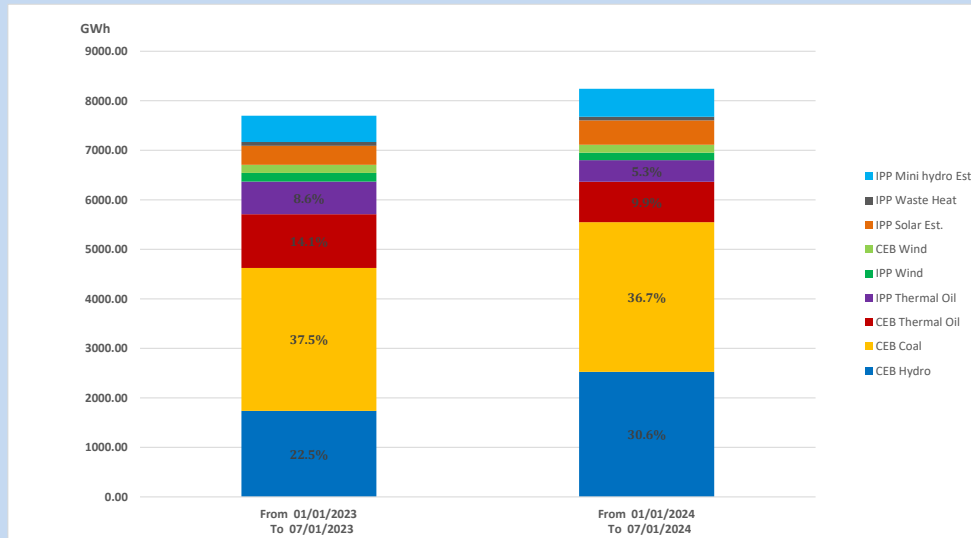
Solar Generation during

July 1, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

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

7699 GWh

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

8243 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 1, 2024

- 1) Randenigala generator 01 was made unavailable for generation at 10:32hrs due to synchronisation failure. Randenigala generator 01 resumed generation at 14:18hrs.
- 2) New Chilaw 220/132kV T/F 02 tripped from both sides at 22:44hrs(without any proper indication). New Chilaw 220/132kV T/F 02 is yet to be normalized.