

Generation and Reservoirs Statistics

July 9, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

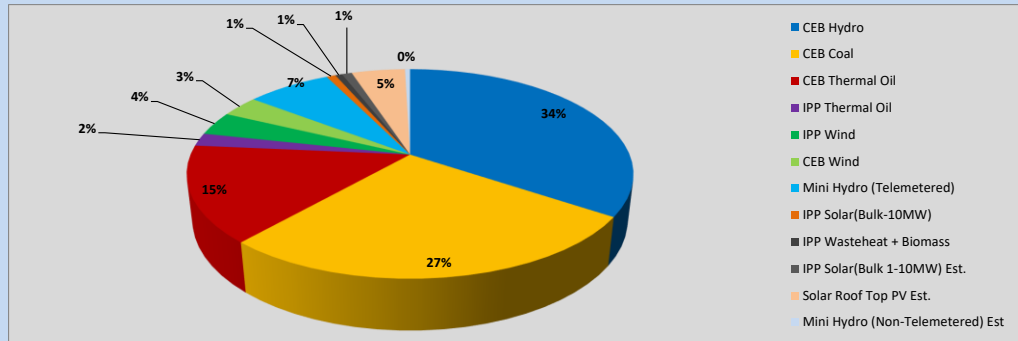


Table 01

	Generation (MWh)
CEB Hydro	16,086
CEB Coal	12,736
CEB Thermal Oil	6,973
IPP Thermal Oil	936
IPP Wind	1,711
CEB Wind	1,539
Mini Hydro (Telemetered)	3,420
IPP Solar (Bulk)	369
IPP Waste heat + Biomass	277
Total Generation (Excluding estimated figures)	44,047
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	206
* Estimated IPP Solar PV (Bulk 1-10MW)	405
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	46,828

* 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	145	34.90%
CEB Coal	127	30.65%
CEB Thermal Oil	33	7.90%
IPP Thermal	14	3.42%
SPP Wind	16	3.78%
CEB Wind	17	4.01%
Mini Hydro *	34	8.20%
IPP Solar *	26	6.30%
IPP Waste heat + BMP	3	0.84%
Total	415	

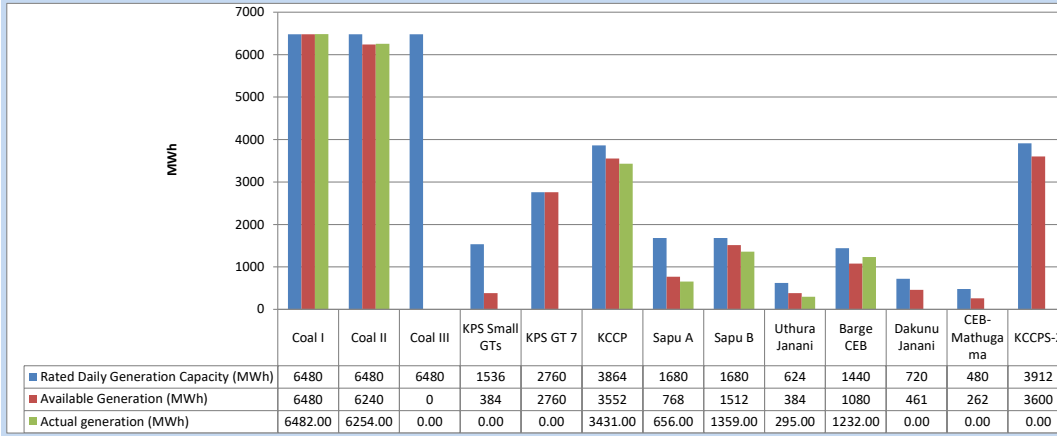
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,652	30.78%
CEB Coal	3,132	36.34%
CEB Thermal Oil	849	9.86%
IPP Thermal	448	5.20%
SPP Wind	168	1.95%
CEB Wind	173	2.00%
Mini Hydro *	583	6.77%
IPP Solar *	533	6.18%
IPP Waste heat	81	0.94%
Total	8,618	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

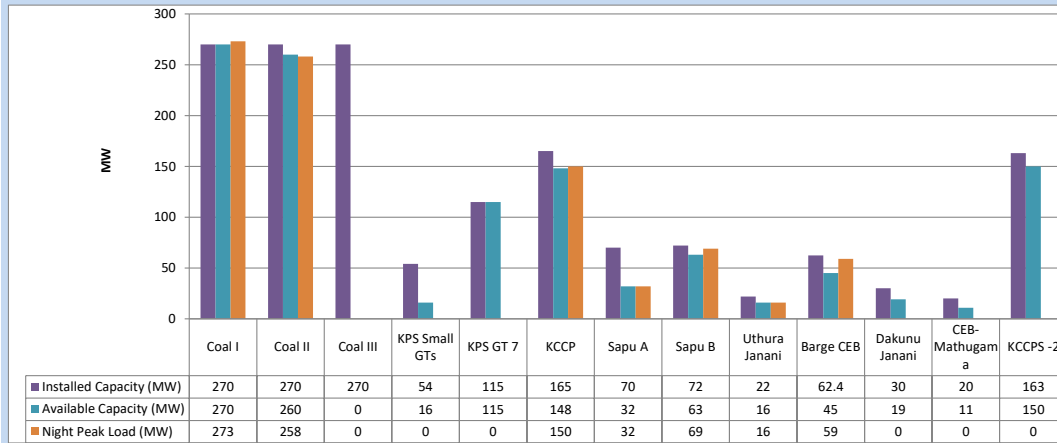
July 9, 2024



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

July 10, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

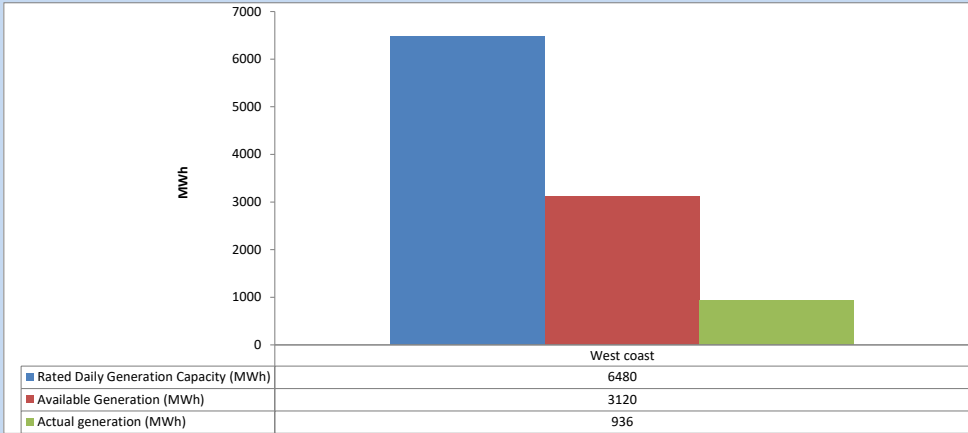


Plant availability is recorded at 6.00 am on

July 10, 2024

5. IPP owned Thermal Plant Dispatch

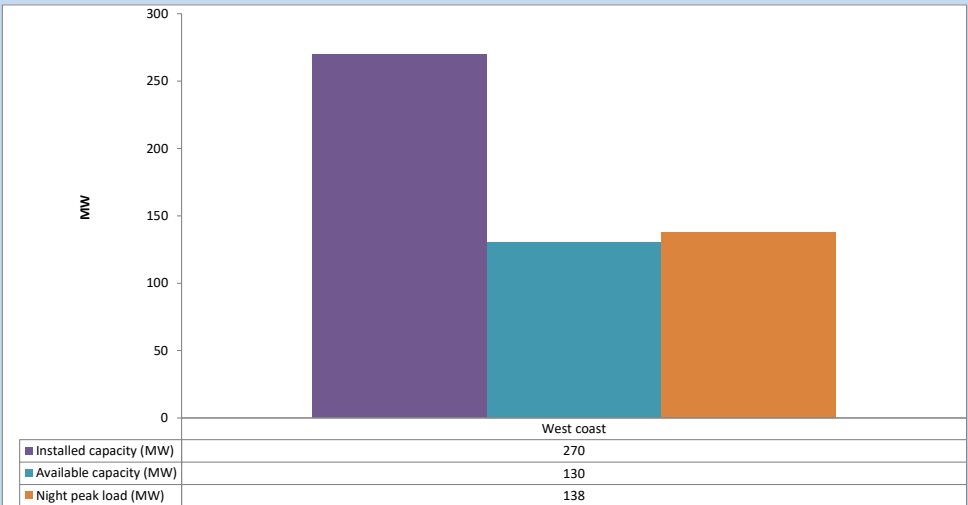
July 9, 2024



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

July 10, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

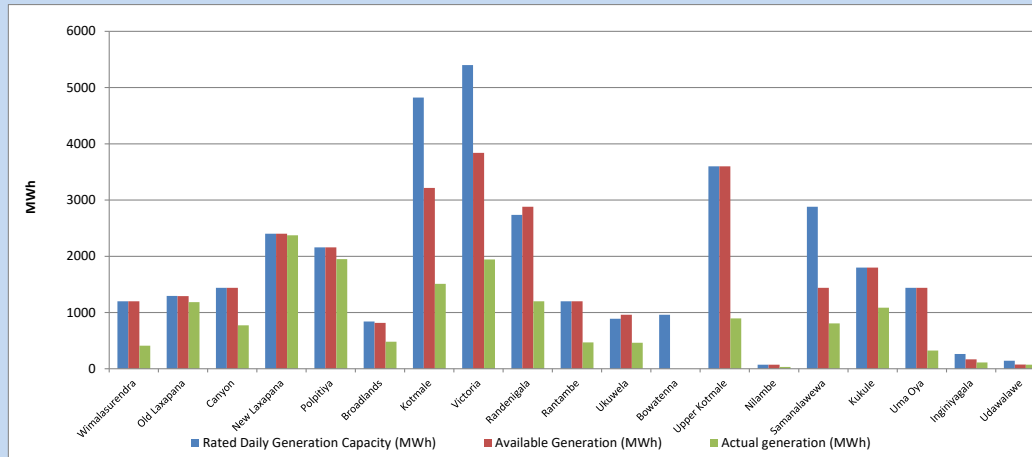


Plant availability is recorded at 6.00 am on

July 10, 2024

7. Major Hydro Plant Dispatch

July 9, 2024

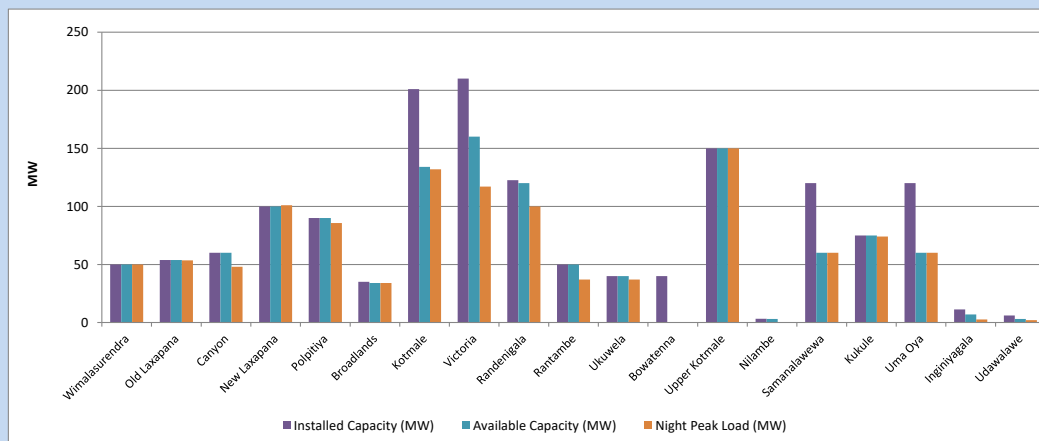


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

July 10, 2024

8. Major Hydro Plant Loading at Night Peak

July 9, 2024



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

July 10, 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	409
Old Laxapana	54	54	54	1,185
Canyon	60	60	48	773
New Laxapana	100	100	101	2,375
Polpitiya	90	90	86	1,950
Broadlands	35	34	34	482
Kotmale	201	134	132	1,510
Victoria	210	160	117	1,944
Randenigala	123	120	100	1,199
Rantambe	50	50	37	469
Ukuwela	40	40	37	462
Bowatenna	40	0	0	0
Upper Kotmale	150	150	150	896
Nilambe	3	3	0	31
Samanalawewa	120	60	60	806
Kukule	75	75	74	1,087
Uma Oya (Testing)	120	60	60	324
Inginiyagala	11	7	3	111
Udawalawe	6	3	2	73
Puttalam Coal I	270	270	273	6,482
Puttalam Coal II	270	260	258	6,254
Puttalam Coal III	270	0	0	0
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	148	150	3,431
Sapugaskanda A	70	32	32	656
Sapugaskanda B	72	63	69	1,359
Uthura Janani	22	16	16	295
Barge CEB	62	45	59	1,232
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	138	936
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi	220	0	0	0
Total	3,594	2,525	2,455	44,047

Note-

Plant availability is the availability recorded at 6 am on

July 10, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

July 9, 2024

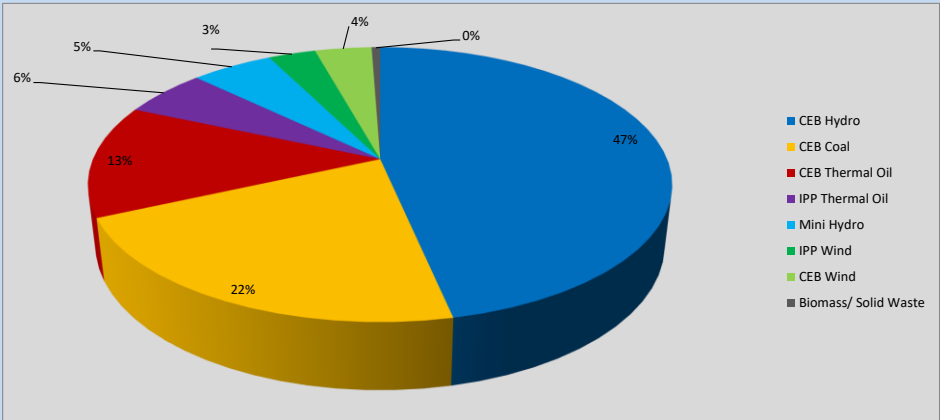


Table 06

CEB Hydro	1147	MW
CEB Coal	531	MW
CEB Thermal Oil	326	MW
IPP Thermal Oil	138	MW
Mini Hydro (Telemetered)	133	MW
IPP Wind	76.9	MW
CEB Wind	92.2	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

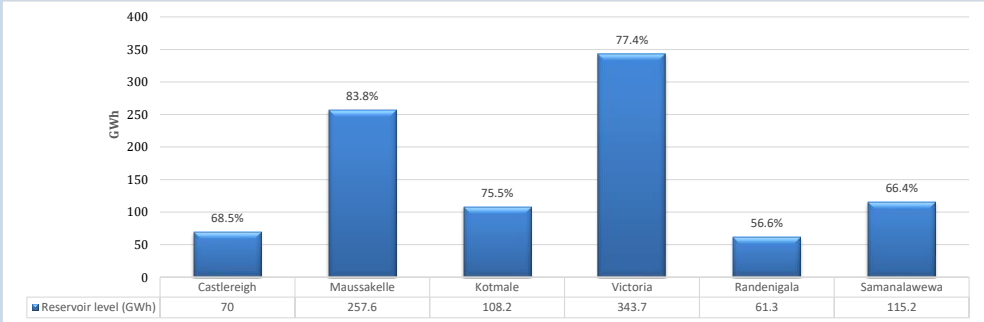
Table 07

Night Peak*	2,457	MW
Day Peak Maximum Demand	2,145	MW
Day Peak Minimum Demand	1,738	MW
Off Peak Minimum Demand	1,401	MW

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

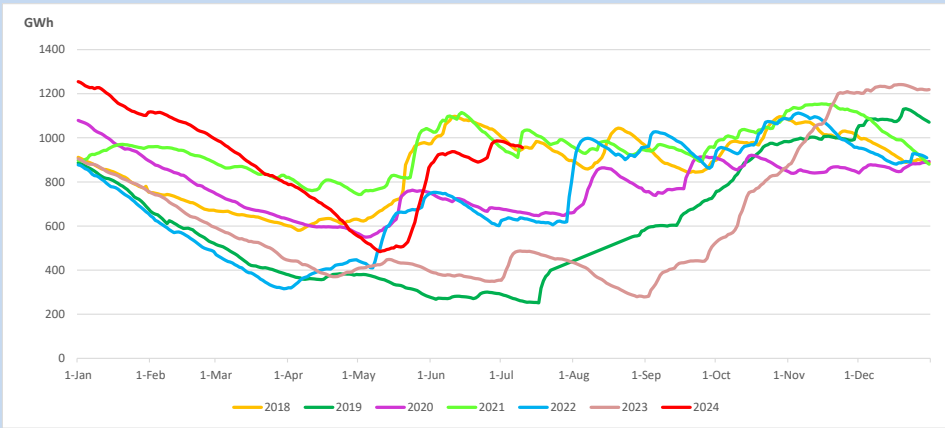
Reservoir Levels -

as at 06.00 Hr on July 10, 2024

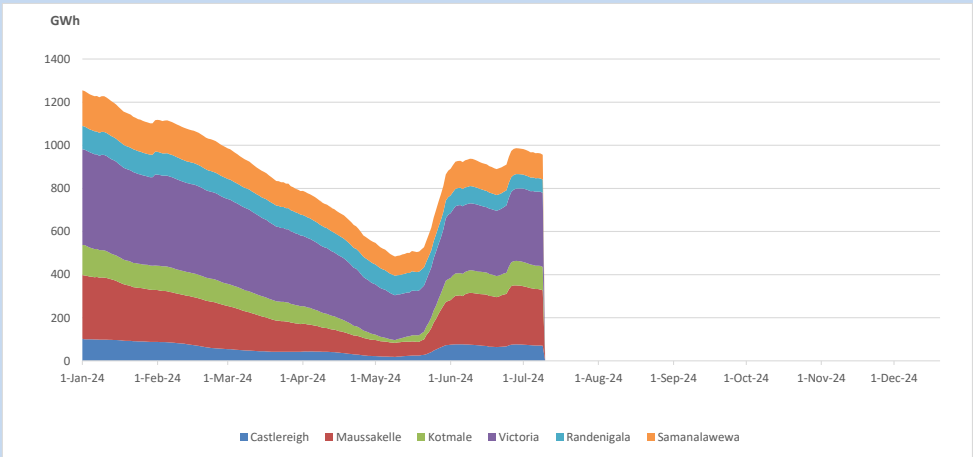


Total Reservoir Level 956 GWh
% of Total capacity 74.8%

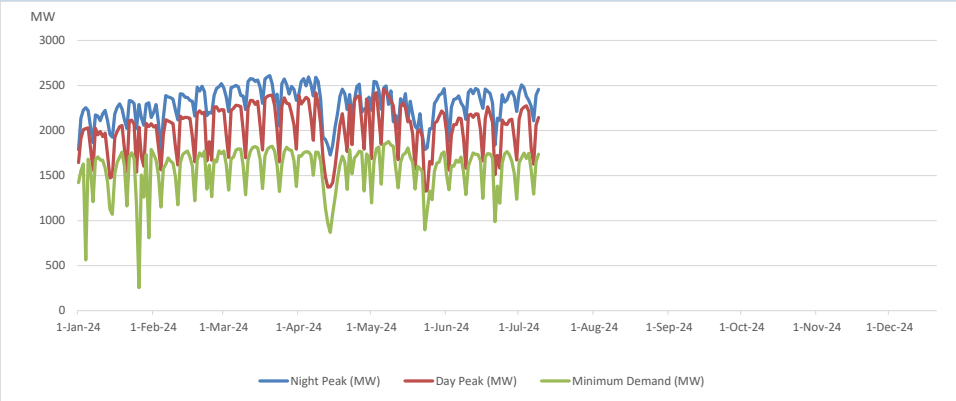
11. Comparison of Total Reservoir Storage Levels with Past Years



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



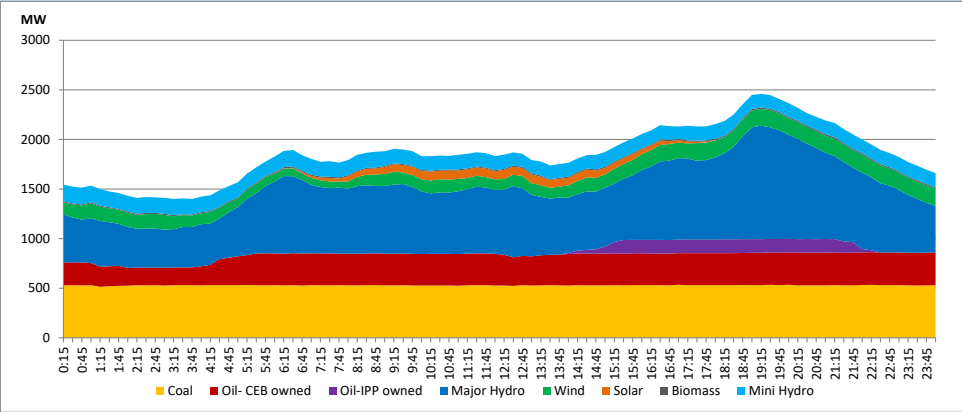
13. Variation of Demand during the current year



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

14. Daily Load Curve

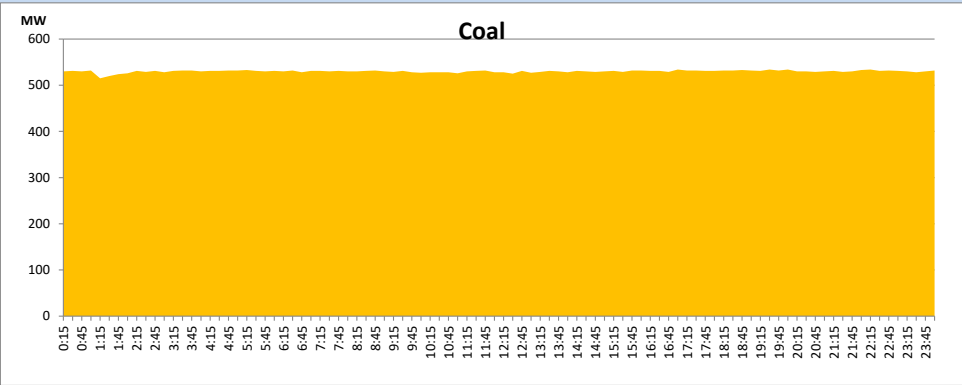
July 9, 2024



Solar and wind data is based on Telemetered Power Stations only

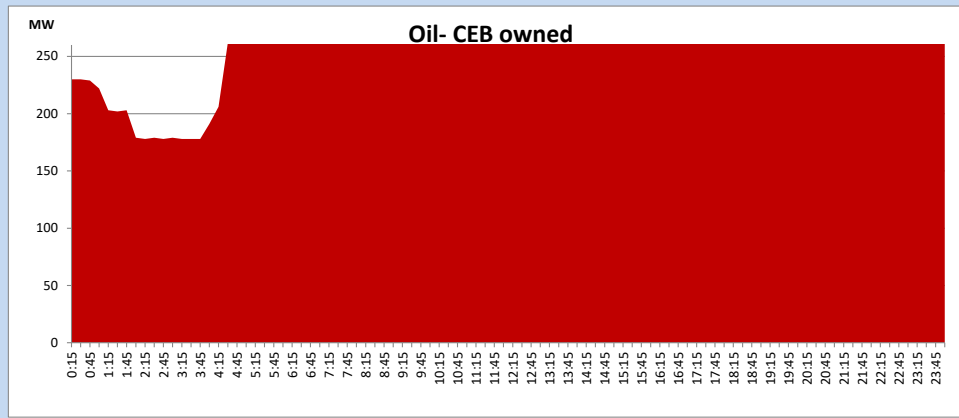
Coal Generation during

July 9, 2024



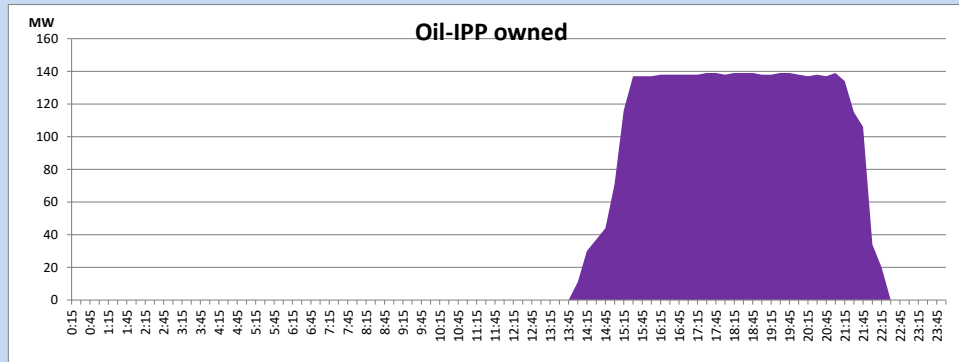
CEB Oil Plant Generation during

July 9, 2024



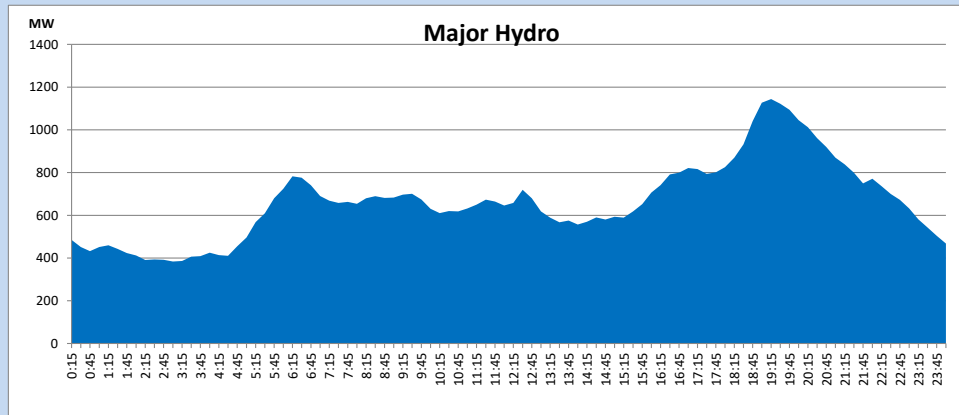
IPP Oil Plant Generation during

July 9, 2024



Major Hydro Generation during

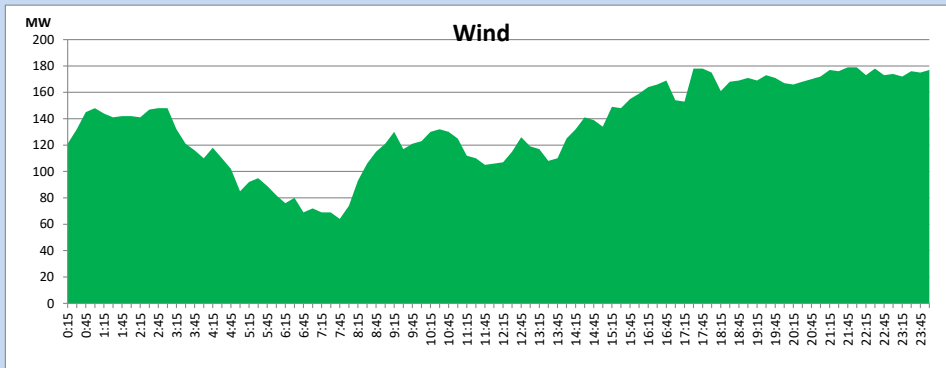
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Wind Generation during

July 9, 2024

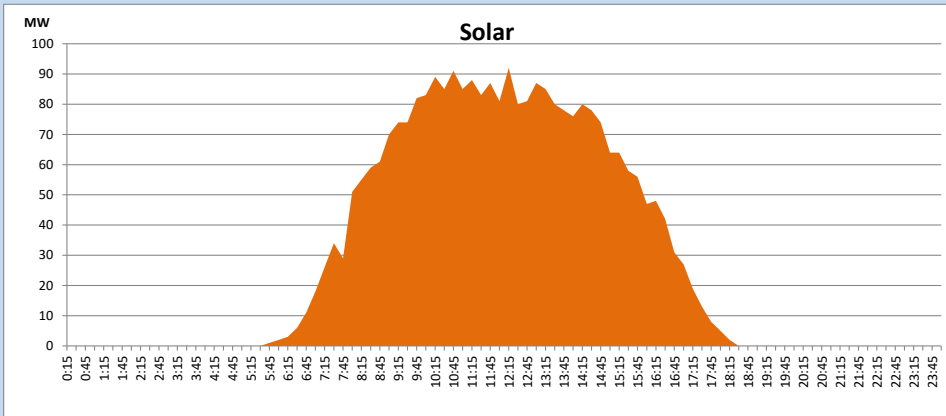
Based on Telemetered Power Stations only



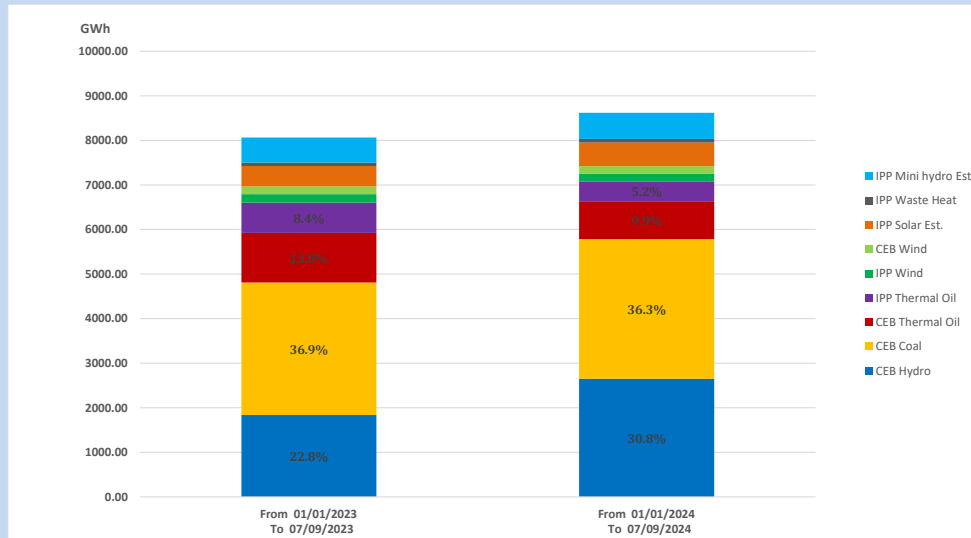
Solar Generation during

July 9, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/09/2023

8064 GWh

From 01/01/2024 To 07/09/2024

8618 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 9, 2024

1) Thulhiriya 132/33kV T/F 02, which was tripped on 07.07.2024, was normalized at 19:36hrs.

2) Veyangoda 132/33kV T/F 02 , which was released for R/M failed to normalize at 17:30hrs due to TCS failure alarm. The T/F is yet to be normalized.