

Generation and Reservoirs Statistics

July 28, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

July 28, 2024

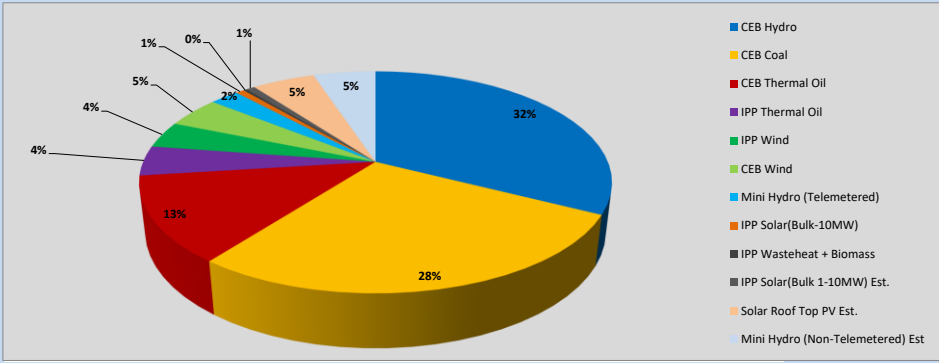


Table 01

	Generation (MWh)
CEB Hydro	13683
CEB Coal	11777
CEB Thermal Oil	5290
IPP Thermal Oil	1829
IPP Wind	1624
CEB Wind	1893
Mini Hydro (Telemetered)	1001
IPP Solar (Bulk)	290
IPP Waste heat + Biomass	117
Total Generation (Excluding estimated figures)	37,504
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	2142
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2170
Total Generation (Including estimated figures)	42,120

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	454	35.33%
CEB Coal	392	30.50%
CEB Thermal Oil	102	7.94%
IPP Thermal	38	2.99%
SPP Wind	56	4.34%
CEB Wind	55	4.26%
Mini Hydro *	99	7.70%
IPP Solar *	80	6.26%
IPP Waste heat + BMP	9	0.67%
Total	1,285	

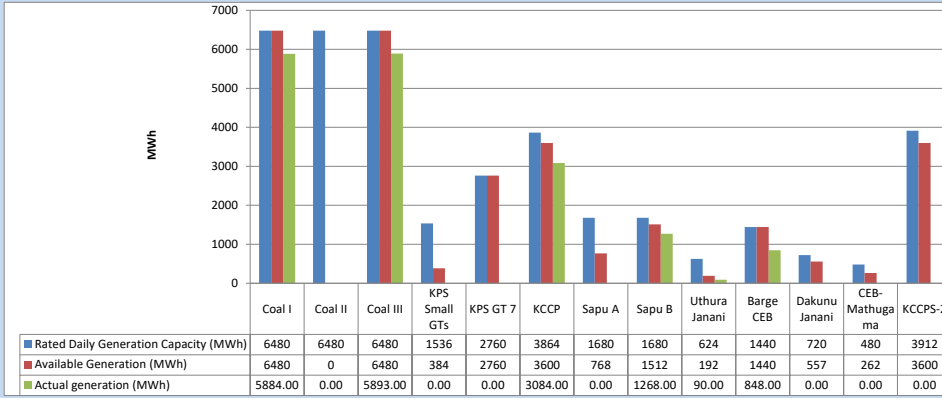
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	2,961	31.21%
CEB Coal	3,396	35.80%
CEB Thermal Oil	919	9.68%
IPP Thermal	472	4.98%
SPP Wind	208	2.19%
CEB Wind	211	2.22%
Mini Hydro *	648	6.83%
IPP Solar *	587	6.19%
IPP Waste heat	86	0.91%
Total	9,488	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

July 28, 2024

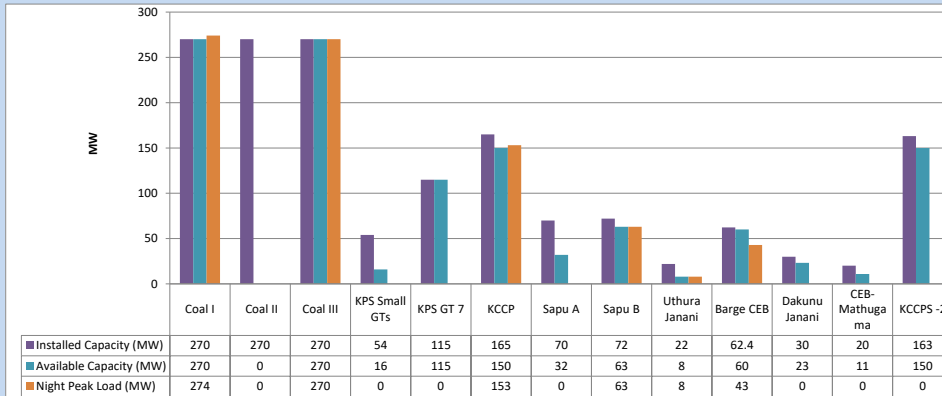


Available Generation is estimated based on plant availability at 6.00am on

July 29, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

July 28, 2024

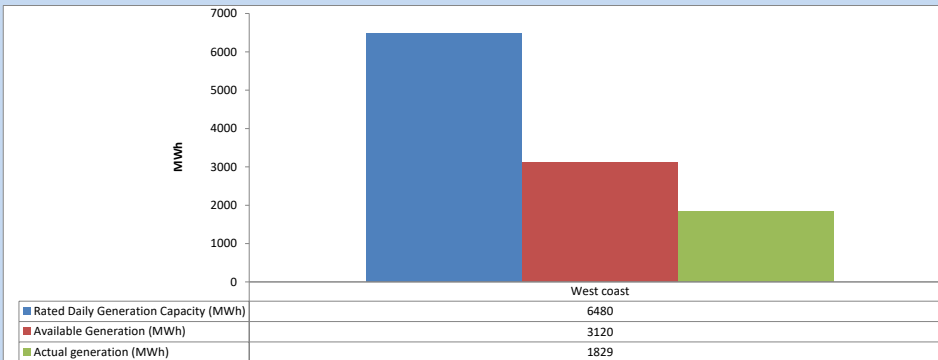


Plant availability is recorded at 6.00 am on

July 29, 2024

1.4 IPP owned Thermal Plant Dispatch

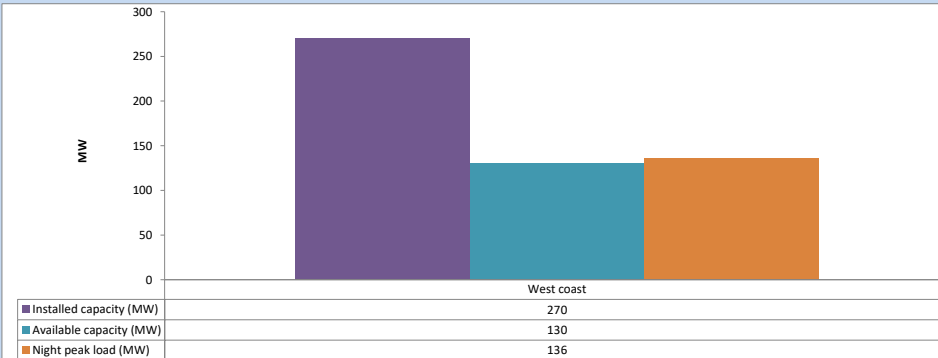
July 28, 2024



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

July 29, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

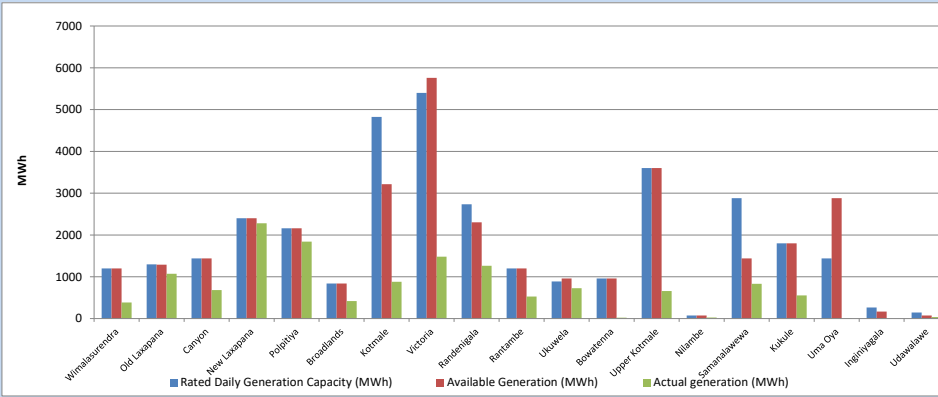


Plant availability is recorded at 6.00 am on

July 29, 2024

1.6 Major Hydro Plant Dispatch

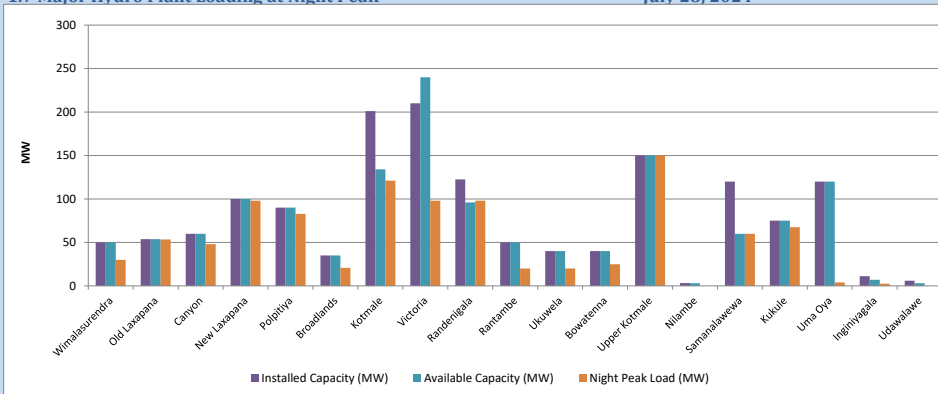
July 28, 2024



Available Generation is estimated based on plant availability at 6.00am on July 29, 2024

1.7 Major Hydro Plant Loading at Night Peak

July 28, 2024



Plant availability is recorded at 6.00 am on July 29, 2024

1.8 Summary of Major Plant performance

July 28, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	30	386
Old Laxapana	54	54	53	1,070
Canyon	60	60	48	683
New Laxapana	100	100	98	2,281
Polpitiya	90	90	83	1,840
Broadlands	35	35	21	417
Kotmale	201	134	121	880
Victoria	210	240	98	1,480
Randenigala	123	96	98	1,262
Rantambe	50	50	20	527
Ukuwela	40	40	20	726
Bowatenna	40	40	25	21
Upper Kotmale	150	150	150	658
Nilambe	3	3	0	25
Samanalawewa	120	60	60	831
Kukule	75	75	68	554
Uma Oya	120	120	4	6
Inginipigala	11	7	3	0
Udawalawe	6	3	0	35
Puttalam Coal I	270	270	274	5,884
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	270	5,893
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	153	3,084
Sapugaskanda A	70	32	0	0
Sapugaskanda B	72	63	63	1,268
Uthura Janani	22	8	8	90
Barge CEB	62	60	43	848
CEB-Hambantota	30	23	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	136	1,829
Nothorn Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	0	0	0
Total	3,594	2,705	2,129	37,503

Note- Plant availability is the availability recorded at 6 am on July 29, 2024

1.9 Contribution to the Night Peak in MW

July 28, 2024

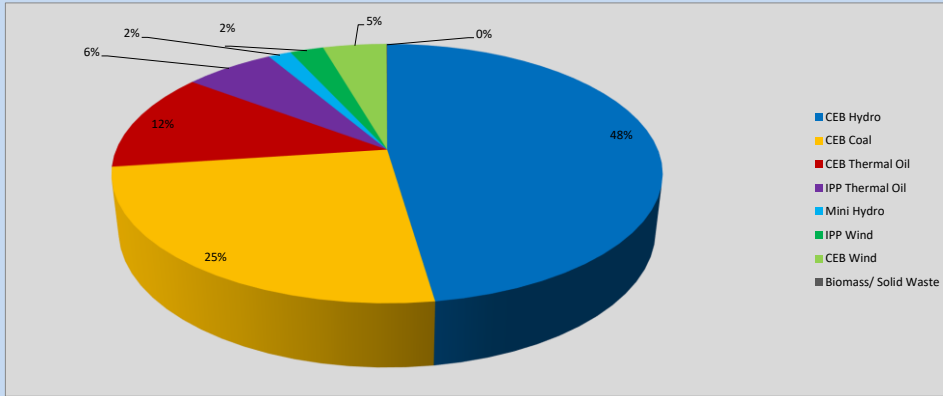


Table 05

CEB Hydro	1030	MW
CEB Coal	544	MW
CEB Thermal Oil	267	MW
IPP Thermal Oil	136	MW
Mini Hydro (Telemetered)	35	MW
IPP Wind	51	MW
CEB Wind	96.3	MW
Biomass/ Solid Waste	1	MW

Recorded Peak Demand Data

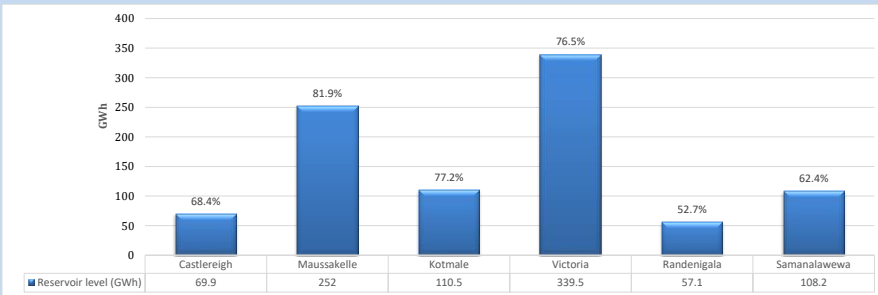
Table 06

Night Peak*	2,160	MW
Day Peak Maximum Demand	1,670	MW
Day Peak Minimum Demand	1,125	MW
Off Peak Minimum Demand	1,460	MW

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

1.10 Reservoir Levels -

as at 06.00 Hr on July 29, 2024



Total Reservoir Level 937.2 GWh
% of Total capacity 73.3%

1.11 Day Ahead Planned Demand Vs Actual Demand (Excluding non telemetered data)

July 28, 2024

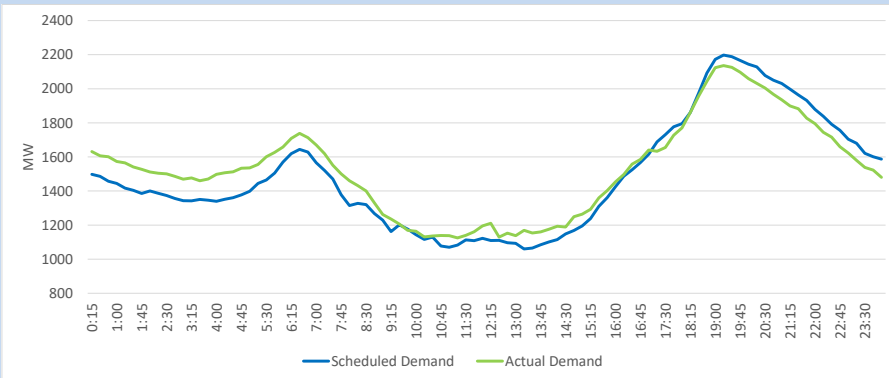
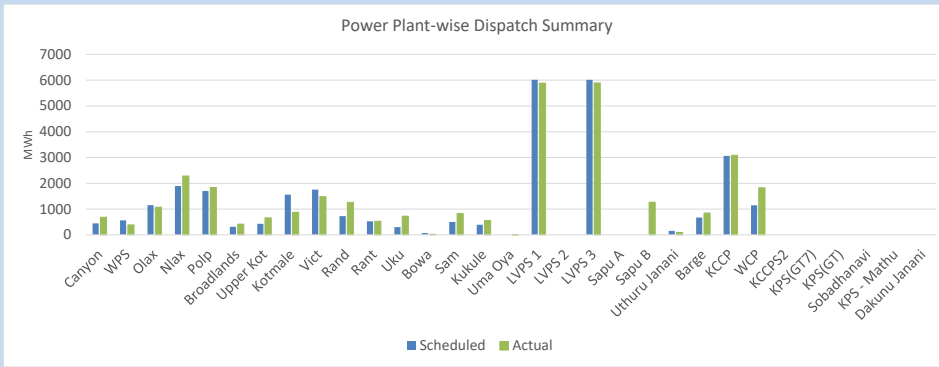


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	12,308	13,623	1315
CEB Coal	12,025	11,777	-248
CEB Thermal Oil	3,887	5,291	1403
IPP Thermal Oil	1,143	1,829	686
NCRE (Telemetered)	6,362	3,974	-2388
Total	35,725	36,493	769

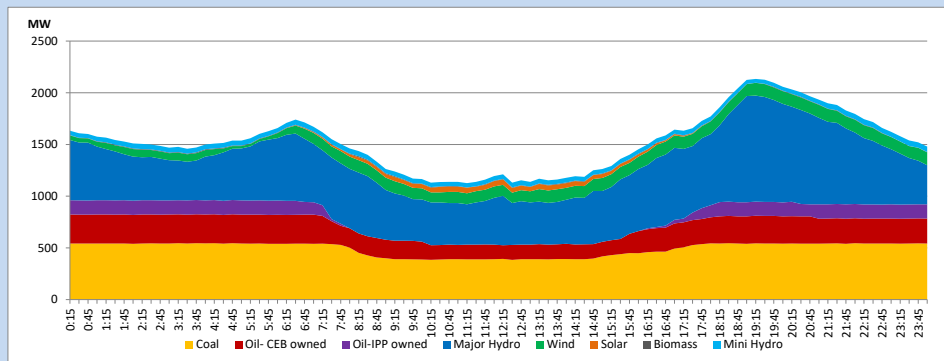
1.12 Power Plant-wise Dispatch Summary

July 28, 2024



1.13 Daily Load Curve

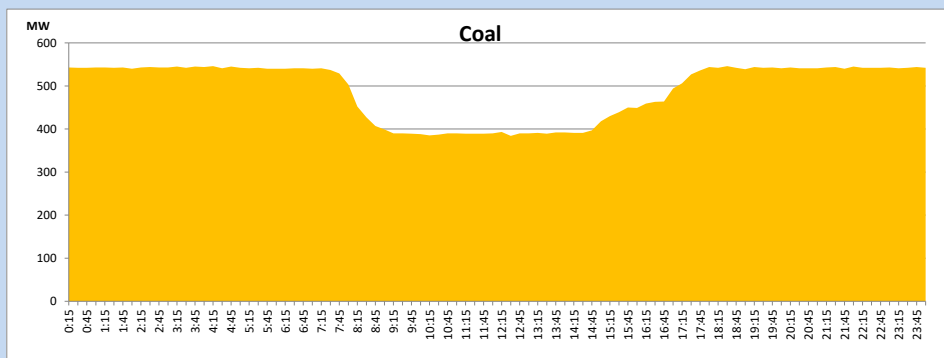
July 28, 2024



Solar and wind data is based on Telemetered Power Stations only

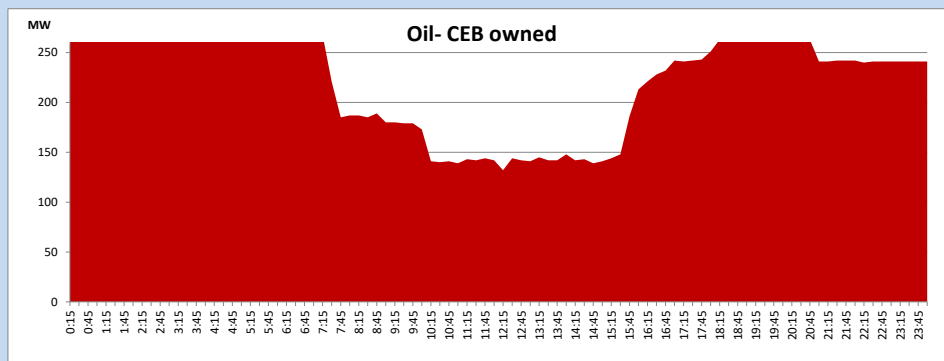
Coal Generation during

July 28, 2024

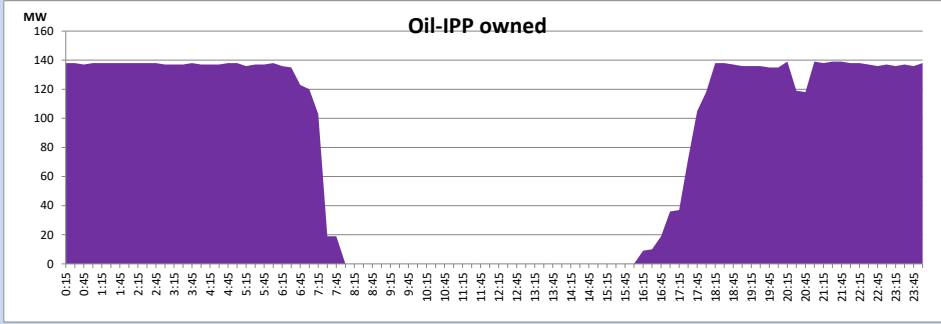


CEB Oil Plant Generation during

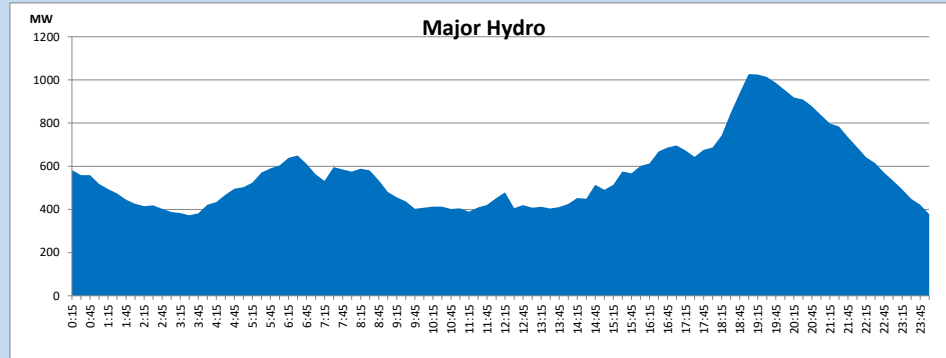
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IPP Oil Plant Generation during July 28, 2024

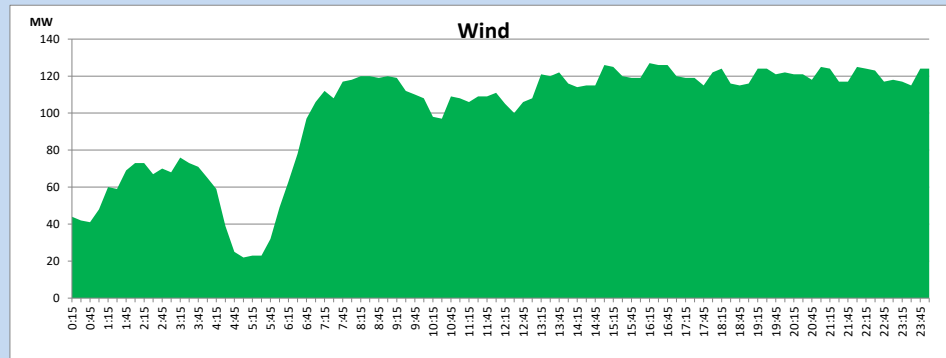


Major Hydro Generation during July 28, 2024



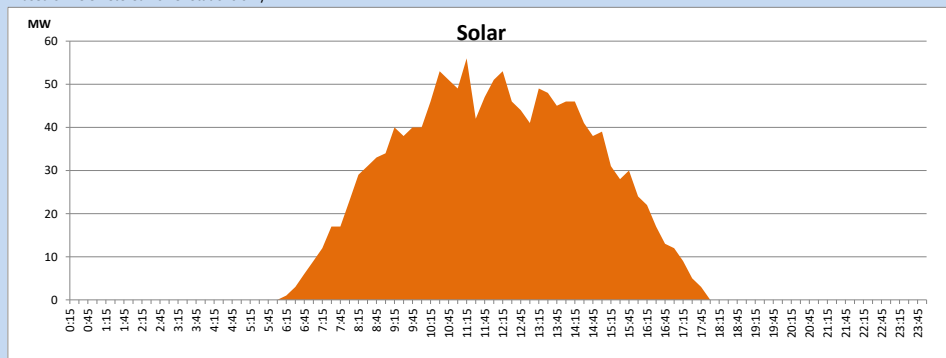
Wind Generation during July 28, 2024

Based on Telemetered Power Stations only



Solar Generation during July 28, 2024

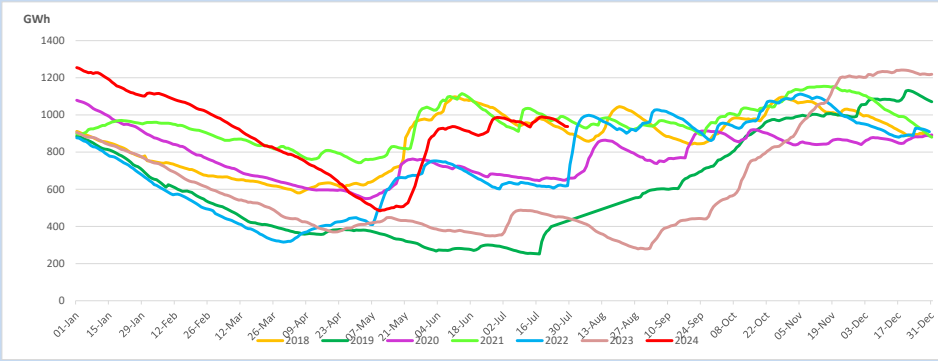
Based on Telemetered Power Stations only



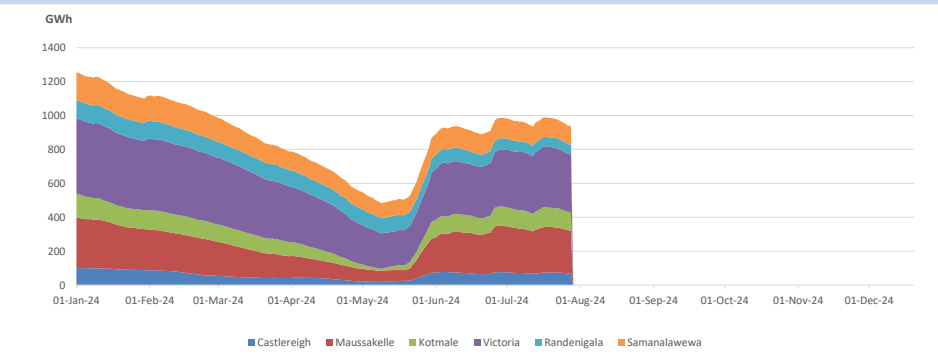
1.14 Major Incidents reported during the day July 28, 2024

- 1) Ukuwela Unit 01 was made forced shutdown at 16:39hrs due to head cover water leak. The unit is made available at 21:33hrs.

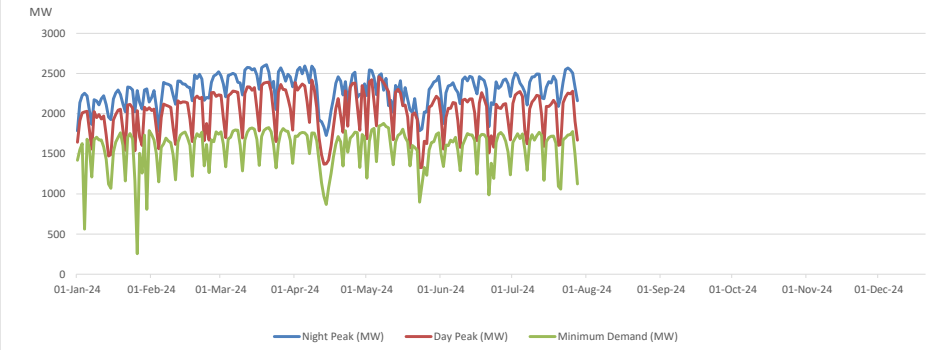
2. Comparison of Total Reservoir Storage Levels with Past Years



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

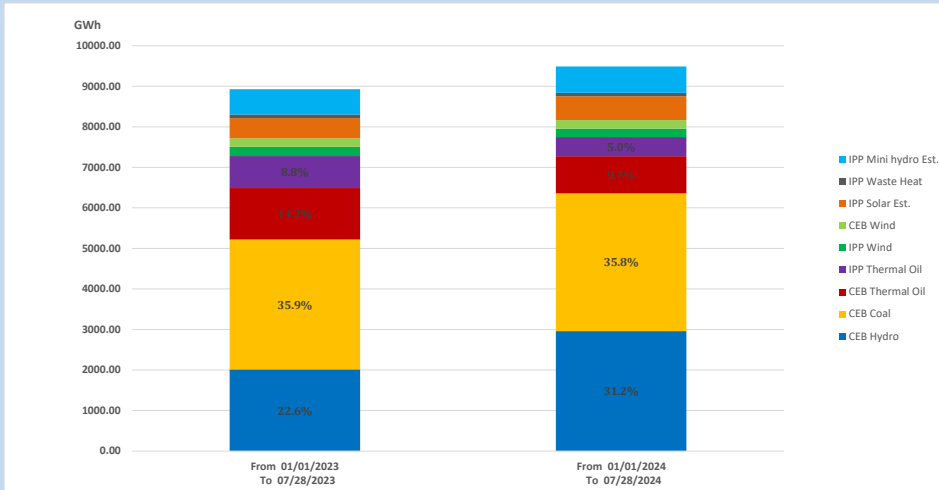


4. Variation of Demand during the current year



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

5. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 07/28/2023

8929 GWh

From 01/01/2024 To 07/28/2024

9488 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 Power 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

6. Installed System Capacity

Table 09

	Installed Capacity (MW)
CEB Hydro	1530
CEB Coal	810
CEB Thermal Oil	786
IPP Thermal Oil (West Coast)	270
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	343
Rooftop Solar (LT Bulk)	289
Rooftop Solar (HT Bulk)	84

Data Source - Monthly Review Report [Mar-2024]