

Generation and Reservoirs Statistics

August 29, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

August 29, 2024

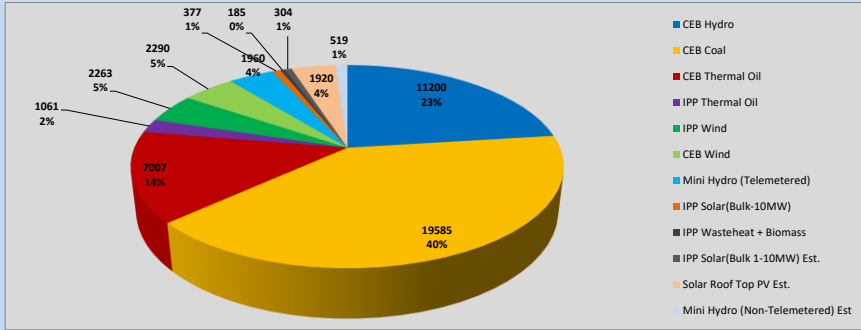


Table 01

	Generation (MWh)
CEB Hydro	11200
CEB Coal	19585
CEB Thermal Oil	7007
IPP Thermal Oil	1061
IPP Wind	2263
CEB Wind	2290
Mini Hydro (Telemetered)	1960
IPP Solar (Bulk)	377
IPP Waste heat + Biomass	185
Total Generation (Excluding estimated figures)	45,928
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	519
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1920
Total Generation (Including estimated figures)	48,671

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	417	31.60%
CEB Coal	466	35.29%
CEB Thermal Oil	137	10.40%
IPP Thermal	33	2.46%
IPP Wind	40	3.01%
CEB Wind	46	3.47%
Mini Hydro *	100	7.55%
IPP Solar *	74	5.60%
IPP Waste heat + BMP	8	0.62%
Total	1,320	

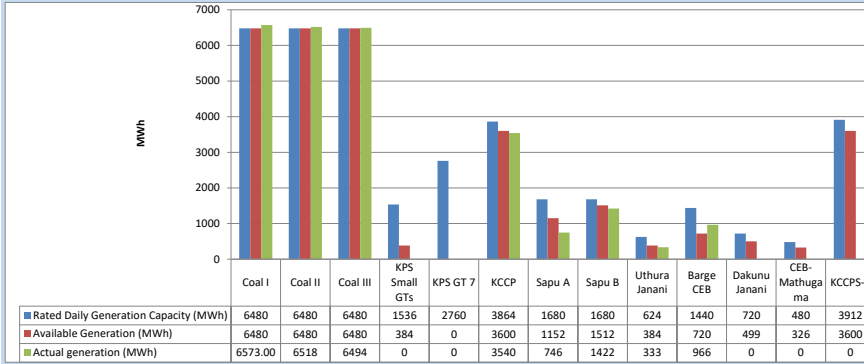
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,431	31.27%
CEB Coal	3,841	35.01%
CEB Thermal Oil	1,121	10.22%
IPP Thermal	508	4.63%
IPP Wind	257	2.35%
CEB Wind	261	2.38%
Mini Hydro *	786	7.17%
IPP Solar *	669	6.10%
IPP Waste heat	97	0.88%
Total	10,971	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

August 29, 2024

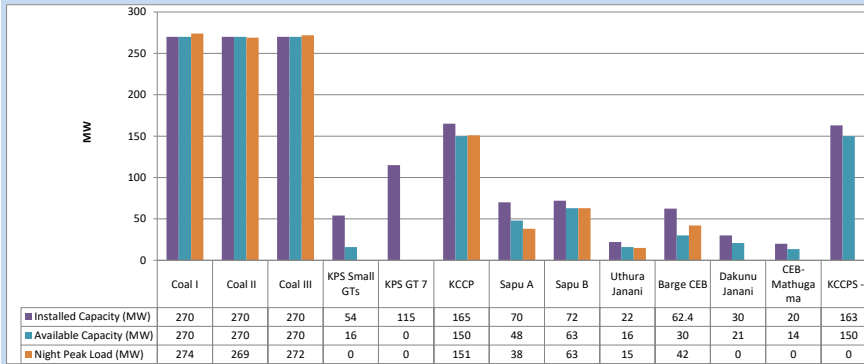


Available Generation is estimated based on plant availability at 6.00am on

August 30, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

August 29, 2024

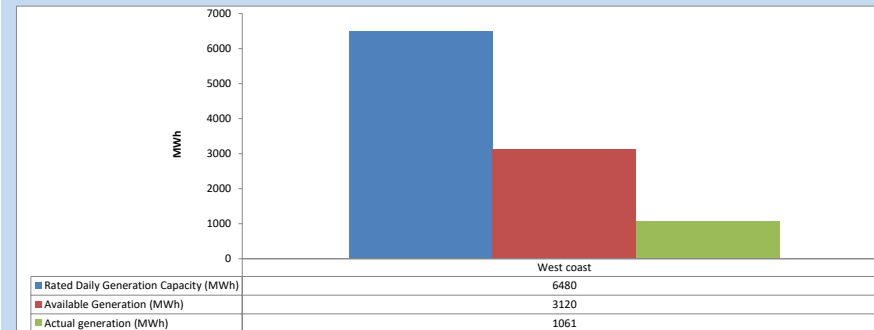


Plant availability is recorded at 6.00 am on

August 30, 2024

1.4 IPP owned Thermal Plant Dispatch

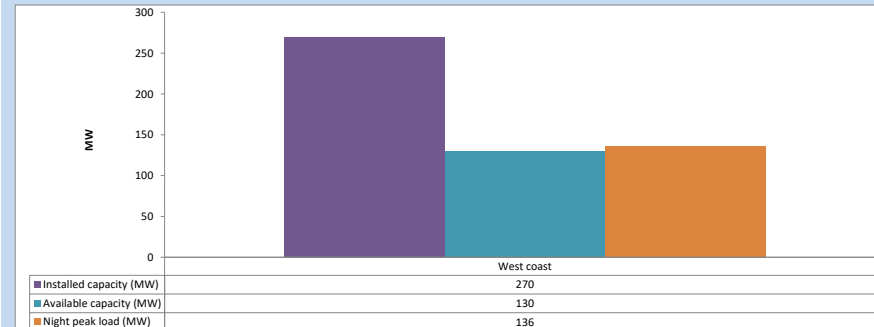
August 29, 2024



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

August 30, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

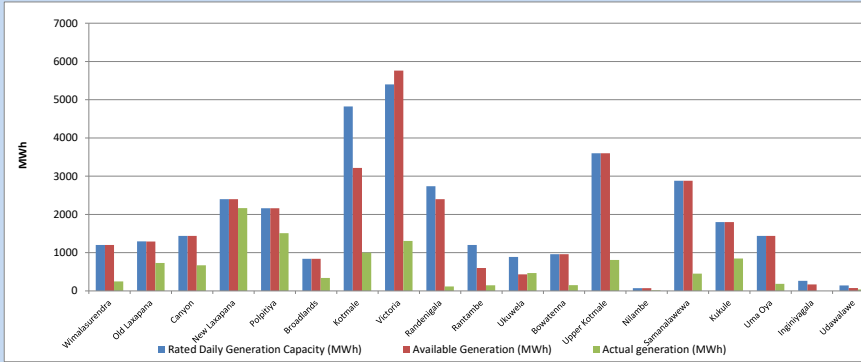


Plant availability is recorded at 6.00 am on

August 30, 2024

1.6 Major Hydro Plant Dispatch

August 29, 2024

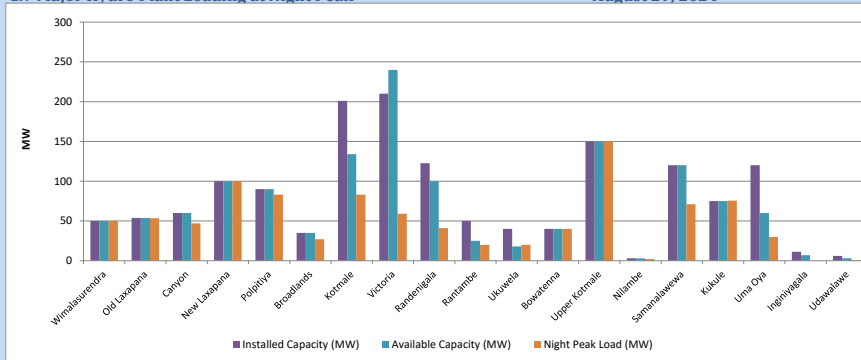


Available Generation is estimated based on plant availability at 6.00am on

August 30, 2024

1.7 Major Hydro Plant Loading at Night Peak

August 29, 2024



Plant availability is recorded at 6.00 am on

August 30, 2024

1.8 Summary of Major Plant performance

August 29, 2024

Table 04

Plant	Maximum Available Total Capacity (MW)	Plant Availability (MW)	Night peak Load (MW)	Plant Dispatch (MWh)
Wimalasurendra	50	50	50	248
Old Laxapana	54	54	54	732
Canyon	60	60	47	671
New Laxapana	100	100	100	2,167
Polpitiya	90	90	83	1,510
Broadlands	35	35	27	339
Kotmale	201	134	83	1,000
Victoria	210	240	59	1,305
Randenigala	123	100	41	117
Rantambe	50	25	20	146
Ukuwela	40	18	20	467
Bowatenna	40	40	40	149
Upper Kotmale	150	150	150	810
Nilambe	3	3	2	16
Samanalawewa	120	120	71	453
Kukule	75	75	76	847
Uma Oya	120	60	30	186
Inginiyagala	11	7	0	0
Udawalawe	6	3	1	37
Puttalam Coal I	270	270	274	6,573
Puttalam Coal II	270	270	269	6,518
Puttalam Coal III	270	270	272	6,494
KPS Small GTs	54	16	0	0
KPS GT 7	115	0	0	0
KCCP	165	150	151	3,540
Sapugaskanda A	70	48	38	746
Sapugaskanda B	72	63	63	1,422
Uthura Janani	22	16	15	333
Barge CEB	62	30	42	966
CEB-Hambantota	30	21	0	0
CEB-Mathugama	20	14	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	1,061
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Sobadhanavi (Testing)	220	212	0	0
Total	3,594	2,811	2,526	45,928

Note-

Plant availability is the availability recorded at 6 am on

August 30, 2024

1.9 Contribution to the Night Peak in MW

August 29, 2024

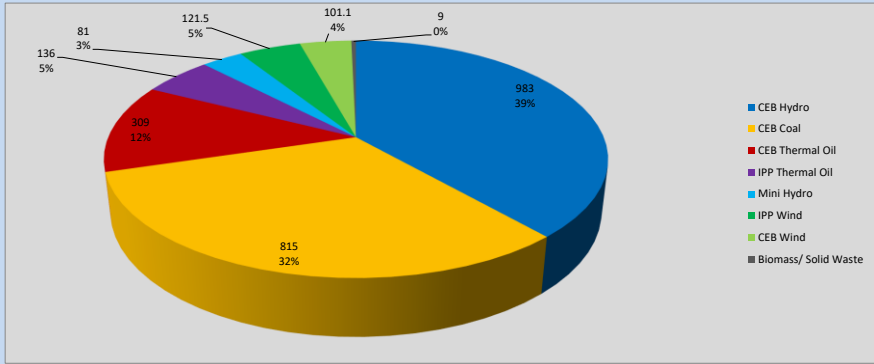


Table 05

CEB Hydro	983	MW
CEB Coal	815	MW
CEB Thermal Oil	309	MW
IPP Thermal Oil	136	MW
Mini Hydro (Telemetered)	81	MW
IPP Wind	121.5	MW
CEB Wind	101.1	MW
Biomass/ Solid Waste	9	MW

Recorded Peak Demand Data

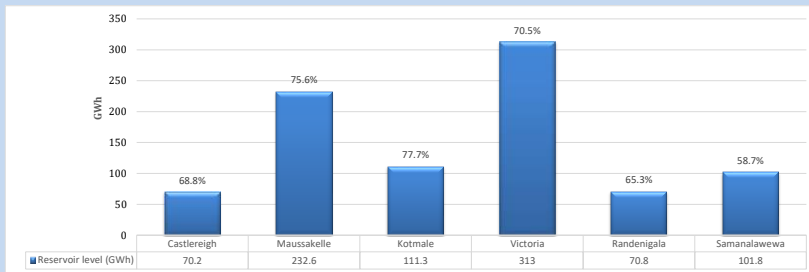
Table 06

Night Peak*	2,555	MW
Day Peak Maximum Demand	2,285	MW
Day Peak Minimum Demand	1,755	MW
Off Peak Minimum Demand	1,544	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 August 30, 2024



Total Reservoir Level
% of Total capacity

899.7 GWh
70.4%

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

August 29, 2024

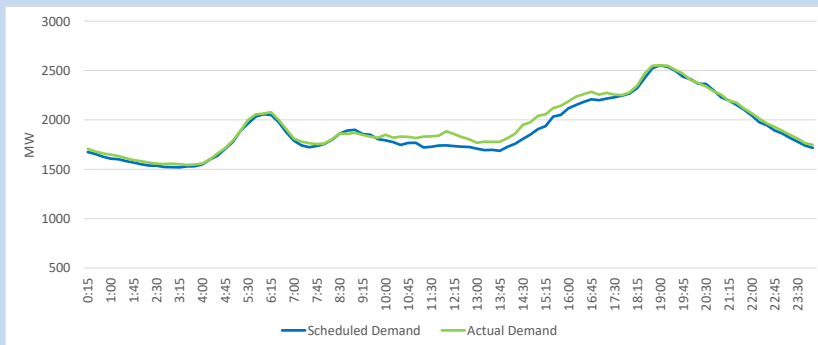
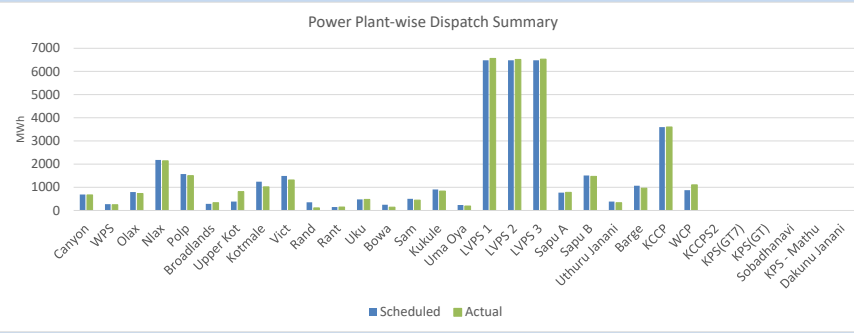


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	11,778	11,154	(624)
CEB Coal	19,440	19,607	167
CEB Thermal Oil	7,333	7,163	(170)
IPP Thermal Oil	875	1,105	230
NCRE (telemetered)	6,146	7,500	1,354
Total	45,572	46,529	957

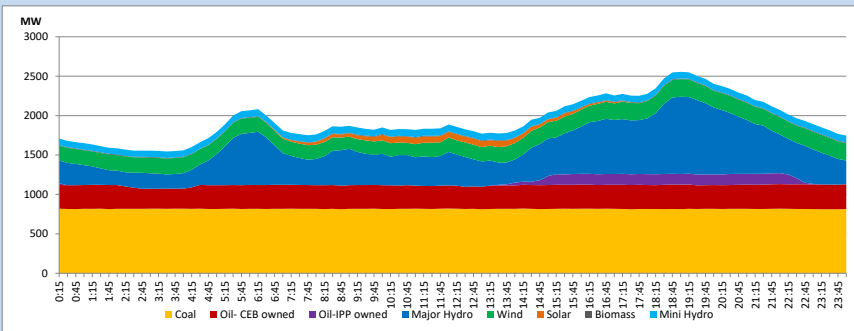
1.12 Power Plant-wise Dispatch Summary

August 29, 2024



1.13 Daily Load Curve

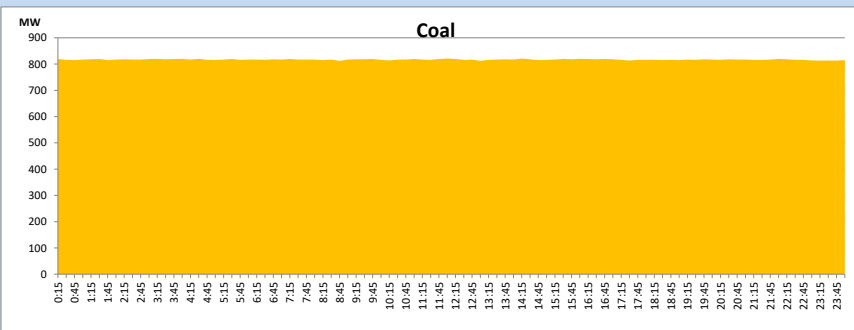
August 29, 2024



Solar and wind data is based on Telemetered Power Stations only

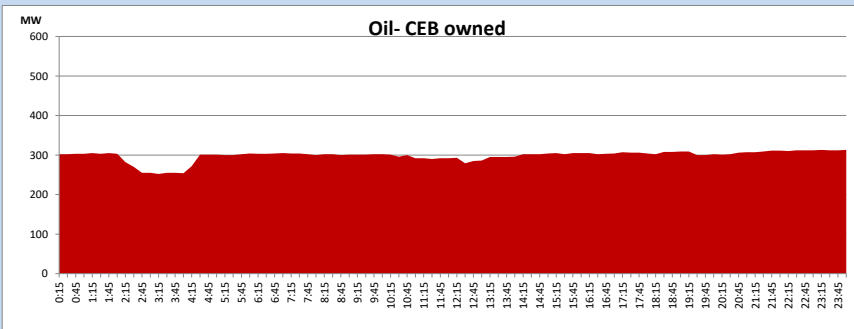
Coal Generation during

August 29, 2024

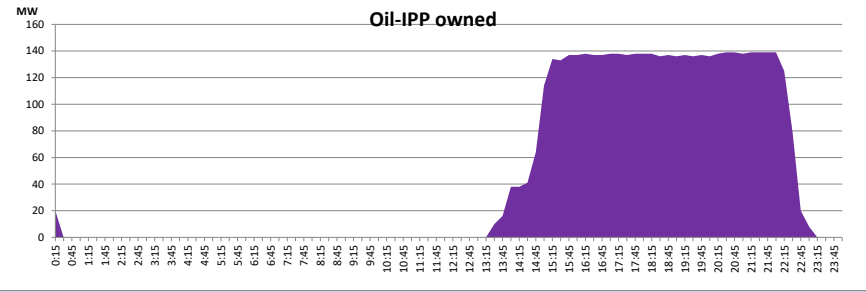


CEB Oil Plant Generation during

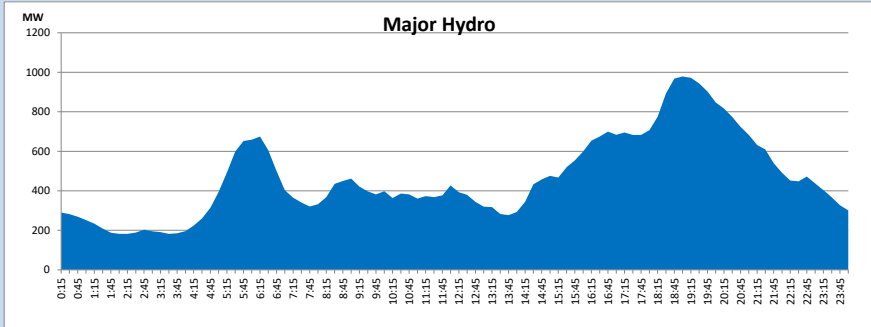
August 29, 2024



IPP Oil Plant Generation during August 29, 2024

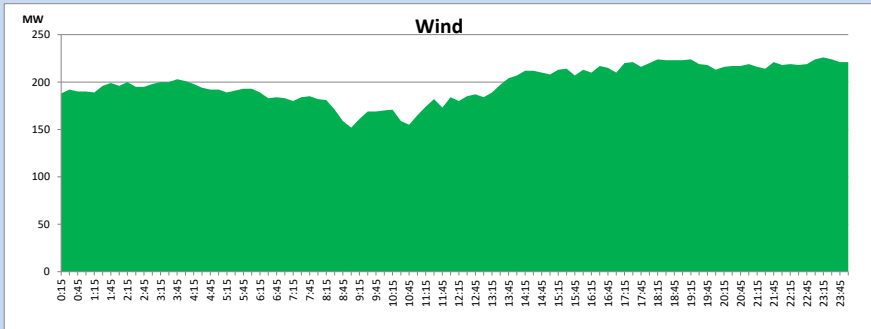


Major Hydro Generation during August 29, 2024



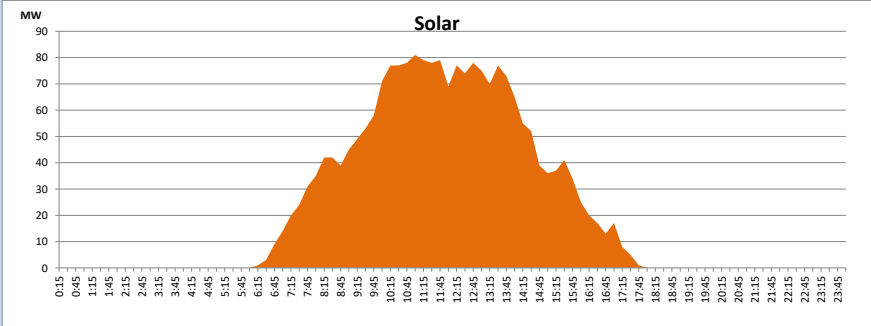
Wind Generation during August 29, 2024

Based on Telemetered Power Stations only



Solar Generation during August 29, 2024

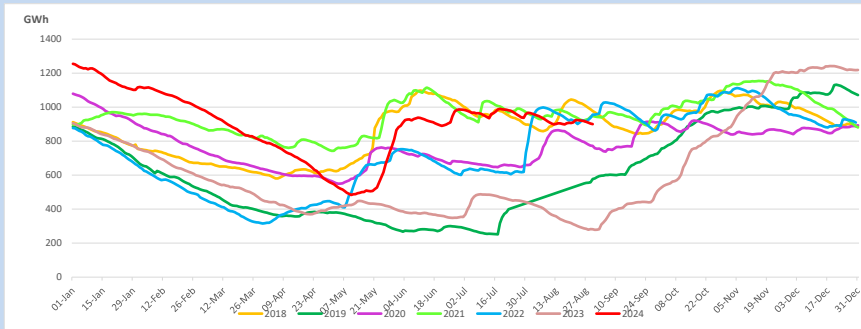
Based on Telemetered Power Stations only



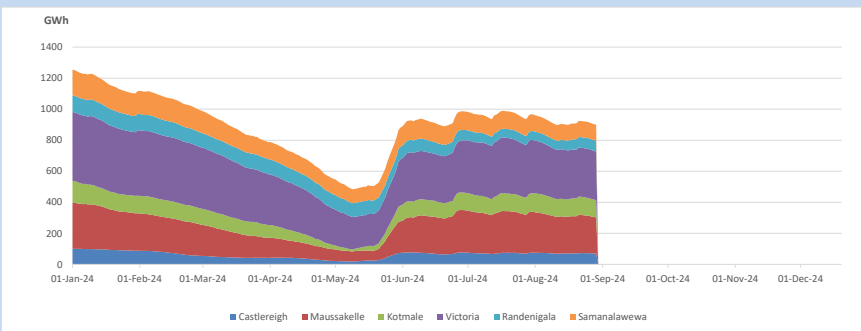
1.14 Major Incidents reported during the day August 29, 2024

- 1) Kotugoda - Biyagama 220kV cct 01 & 02 tripped only from Kotugoda end at 11:15hrs. The cct 01 and 02 normalized at 11:35hrs and 12:24hrs respectively.
- 2) Randenigala unit 02 which have been released for annual maintenance from 30.07.2024 resumed generation at 16:21hrs.

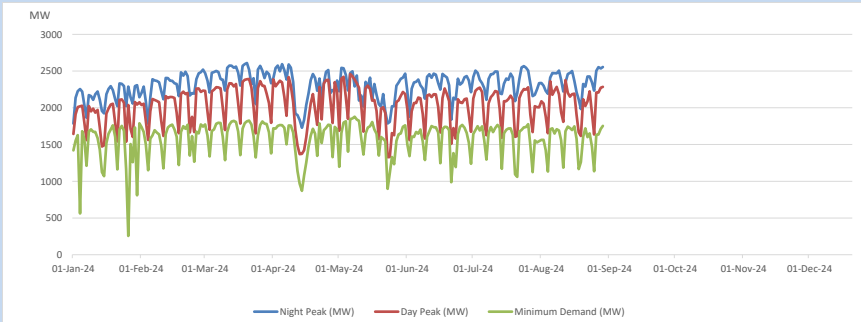
2. Comparison of Total Reservoir Storage Levels with Past Years



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

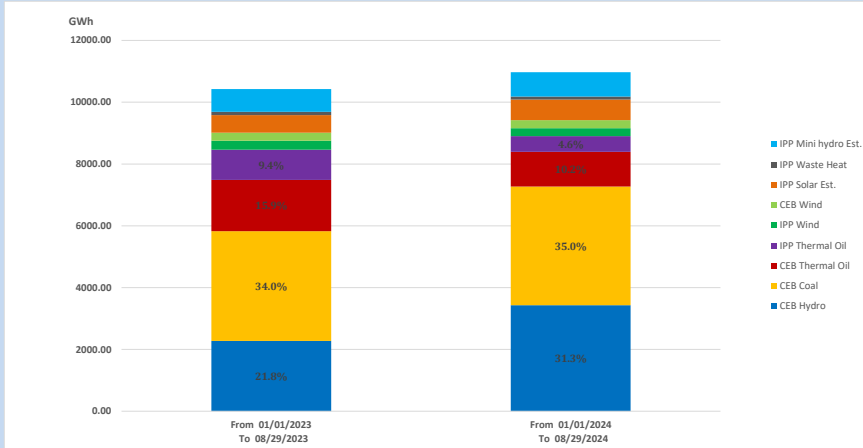


4. Variation of Demand during the current year



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 08/29/2023

10425 GWh

From 01/01/2024 To 08/29/2024

10971 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
 Unserved 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 - May 2024 for NCRE installed capacities