Generation and Reservoirs Statistics

February 8, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

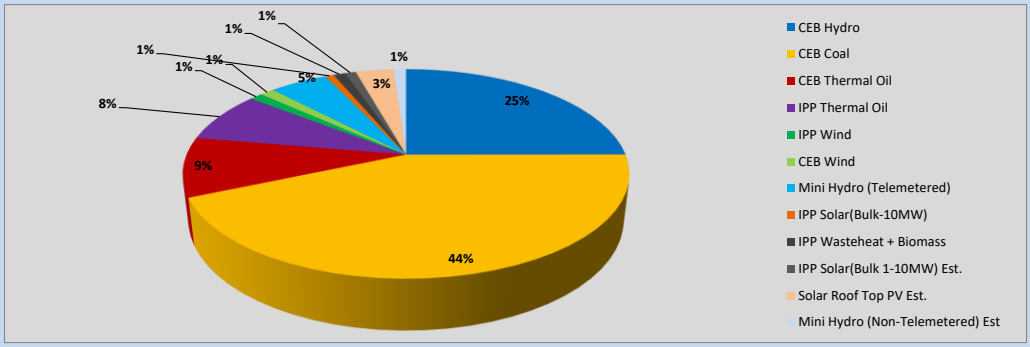


Table 01

	Generation (MWh)
CEB Hydro	11,139
CEB Coal	19,426
CEB Thermal Oil	4,091
IPP Thermal Oil	3,496
IPP Wind	500
CEB Wind	553
Mini Hydro (Telemetered)	2,234
IPP Solar (Bulk)	339
IPP Waste heat + Biomass	449
Total Generation (Excluding estimated figures)	**42,227**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	476
* Estimated IPP Solar PV (Bulk 1-10MW)	427
* Estimated Solar Roof Top PV	1470
Total Generation (Including estimated figures)	**44,600**

*** Estimated figures of CEB generation report**

Table 02

	Installed Capacity (MW)
CEB Hydro	1409
CEB Coal	810
CEB Thermal Oil	781
IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya)	387
IPP Wind	148
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	50
IPP Solar	136
Rooftop Solar (Ordinary)	277
Rooftop Solar (LT Bulk)	263
Rooftop Solar (HT Bulk)	70

Data Source - Monthly Review Report [Aug-2023]

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	96	27.97%
CEB Coal	152	44.41%
CEB Thermal Oil	27	7.76%
IPP Thermal	10	2.82%
SPP Wind	4	1.27%
CEB Wind	5	1.49%
Mini Hydro *	28	8.09%
IPP Solar *	18	5.13%
IPP Waste heat + BMP	4	1.06%
Total	**342**	

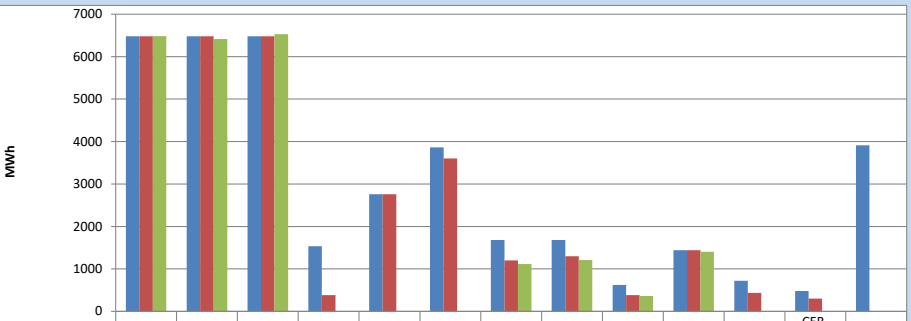
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	727	44.37%
CEB Coal	476	29.04%
CEB Thermal Oil	84	5.13%
IPP Thermal	55	3.38%
SPP Wind	21	1.27%
CEB Wind	27	1.65%
Mini Hydro *	147	8.96%
IPP Solar *	87	5.31%
IPP Waste heat	15	0.90%
Total	**1,638**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

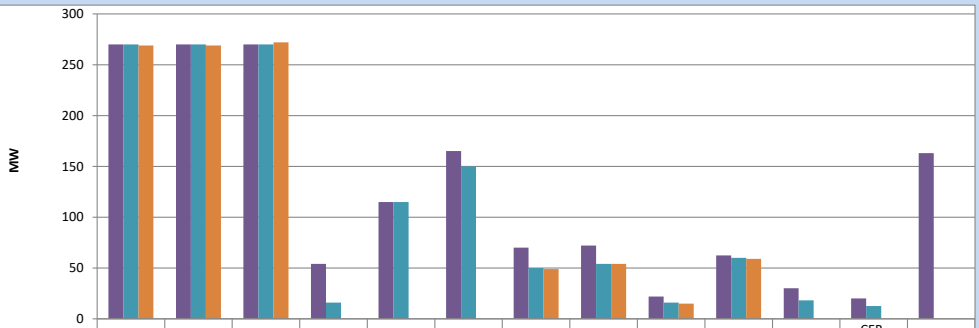
February 8, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1680	1680	624	1440	720	480	3912
Available Generation (MWh)	6480	6480	6480	384	2760	3600	1200	1296	384	1440	437	300	0
Actual generation (MWh)	6483.00	6413.00	6530.00	0.00	0.00	0.00	1114.00	1210.00	363.00	1404.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on February 9, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

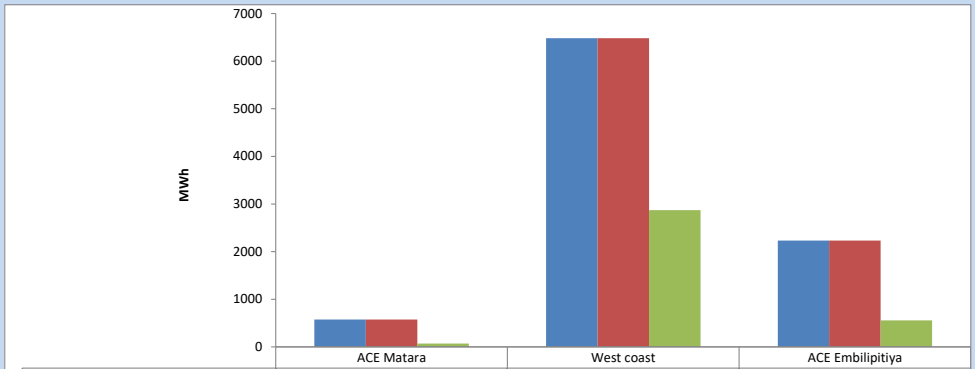


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	16	115	150	50	54	16	60	18	13	0
Night Peak Load (MW)	269	269	272	0	0	0	49	54	15	59	0	0	0

Plant availability is recorded at 6.00 am on February 9, 2024

5. IPP owned Thermal Plant Dispatch

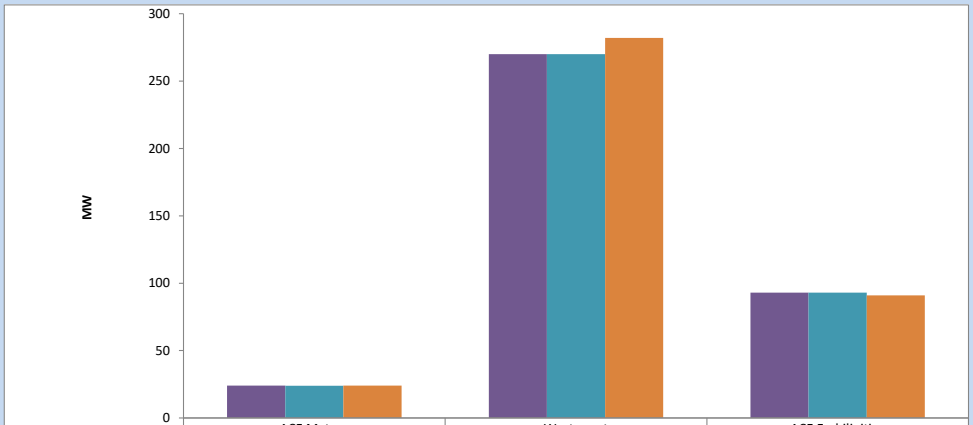
February 8, 2024



	ACE Matara	West coast	ACE Embilipitiya
Rated Daily Generation Capacity (MWh)	576	6480	2232
Available Generation (MWh)	574	6480	2232
Actual generation (MWh)	69.00	2872.00	555

Available Generation is estimated based on plant availability at 6.00am on February 9, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

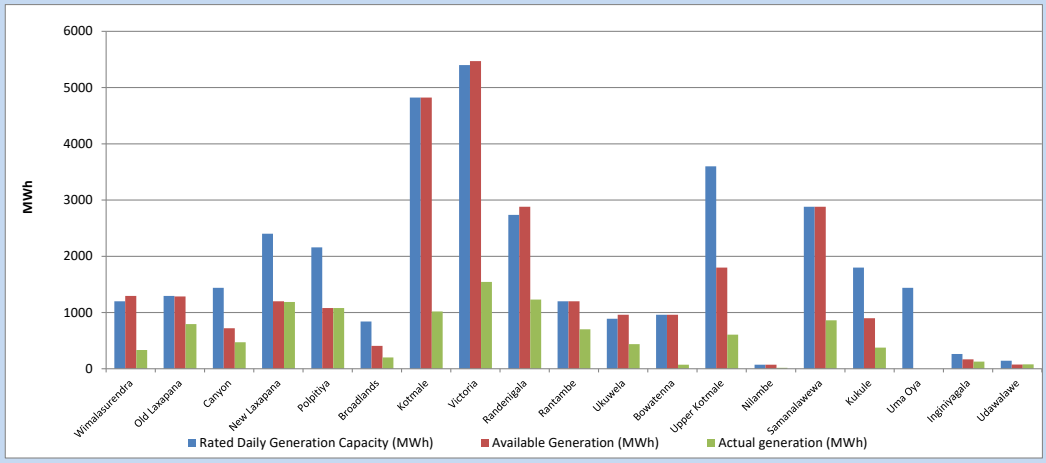


	ACE Matara	West coast	ACE Embilipitiya
Installed capacity (MW)	24	270	93
Available capacity (MW)	24	270	93
Night peak load (MW)	24	282	91

Plant availability is recorded at 6.00 am on February 9, 2024

7. Major Hydro Plant Dispatch

February 8, 2024

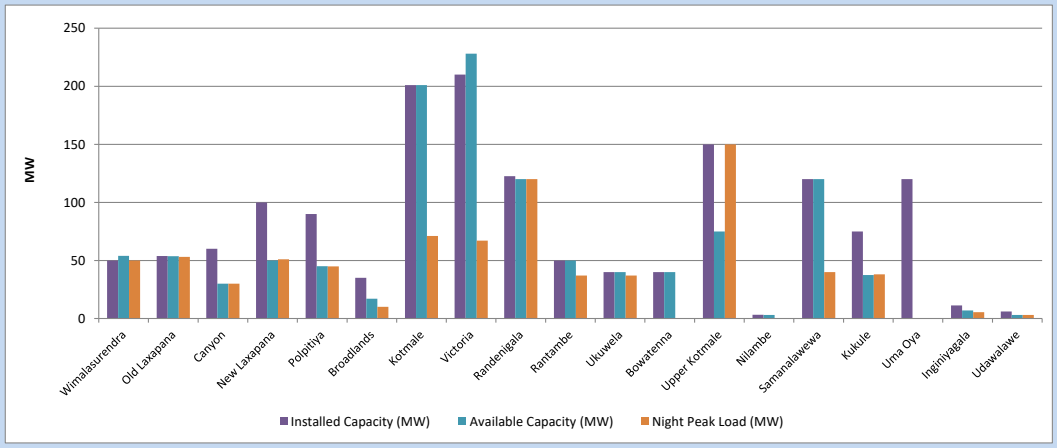


Available Generation is estimated based on plant availability at 6.00am on February 9, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

February 8, 2024



Plant availability is recorded at 6.00 am on February 9, 2024

Broadlands power plant is operating in the Commissioning Stage

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	54	50	332
Old Laxapana	54	54	53	794
Canyon	60	30	30	471
New Laxapana	100	50	51	1,187
Polpitiya	90	45	45	1,080
Broadlands	35	17	10	200
Kotmale	201	201	71	1,020
Victoria	210	228	67	1,543
Randenigala	123	120	120	1,232
Rantambe	50	50	37	702
Ukuwela	40	40	37	439
Bowatenna	40	40	0	71
Upper Kotmale	150	75	150	607
Nilambe	3	3	0	18
Samanalawewa	120	120	40	862
Kukule	75	38	38	376
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	127
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	269	6,483
Puttalam Coal II	270	270	269	6,413
Puttalam Coal III	270	270	272	6,530
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	50	49	1,114
Sapugaskanda B	72	54	54	1,210
Uthura Janani	22	16	15	363
Barge CEB	62	60	59	1,404
CEB-Hambantota	30	18	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	24	69
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	270	282	2,872
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	91	555
Total	3,594	2,863	2,353	42,227

Note-

Plant availability is the availability recorded at 6 am on February 9, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

February 8, 2024

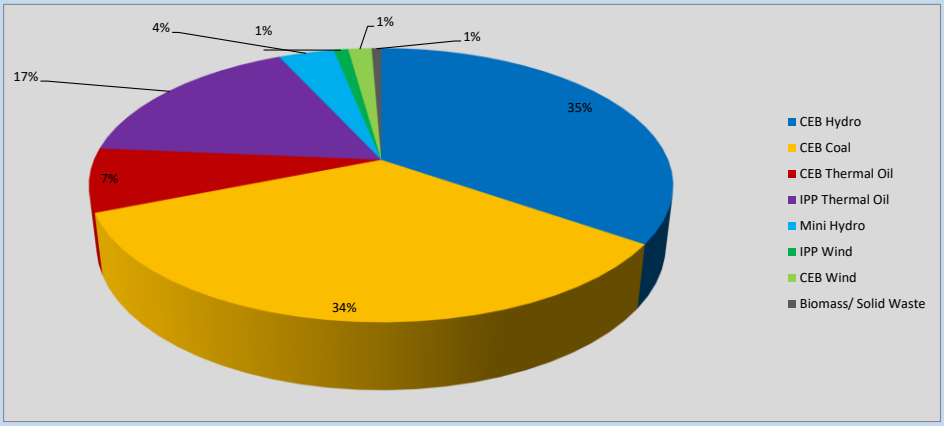


Table 06

CEB Hydro	820	MW
CEB Coal	810	MW
CEB Thermal Oil	177	MW
IPP Thermal Oil	397	MW
Mini Hydro (Telemetered)	87	MW
IPP Wind	22.9	MW
CEB Wind	36.6	MW
Biomass/ Solid Waste	15	MW

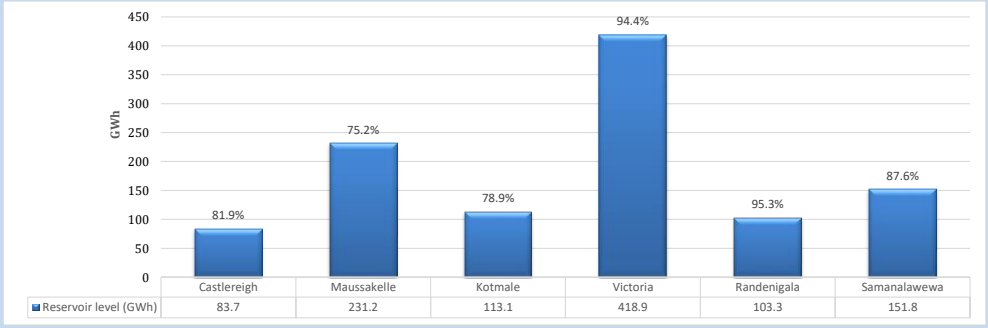
Recorded Peak Demand Data

Table 07

Night Peak*	2,366	MW
Day Peak Maximum Demand	2,093	MW
Day Peak Minimum Demand	1,661	MW
Off Peak Minimum Demand	1,340	MW

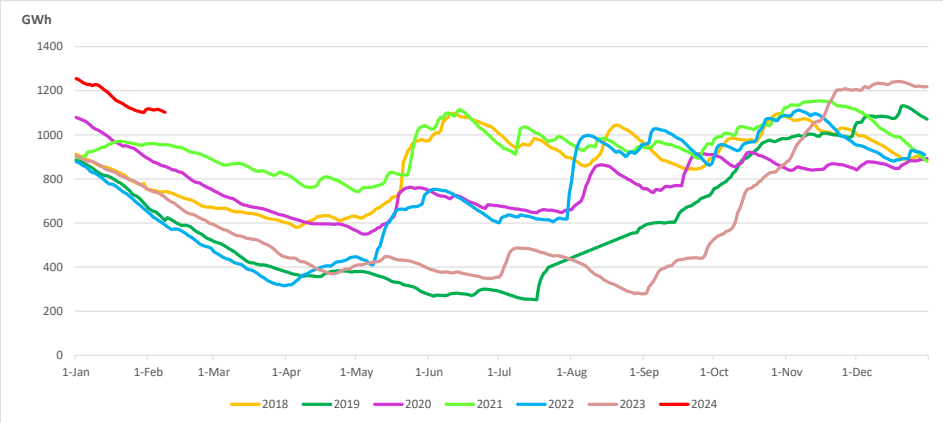
Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

Reservoir Levels - as at 06.00 Hr on February 9, 2024

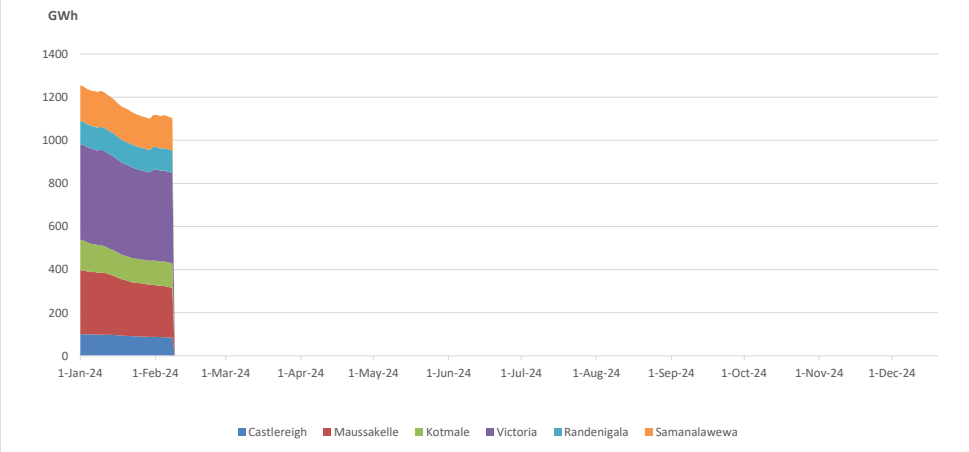


Total Reservoir Level 1102 GWh
% of Total capacity 86.2%

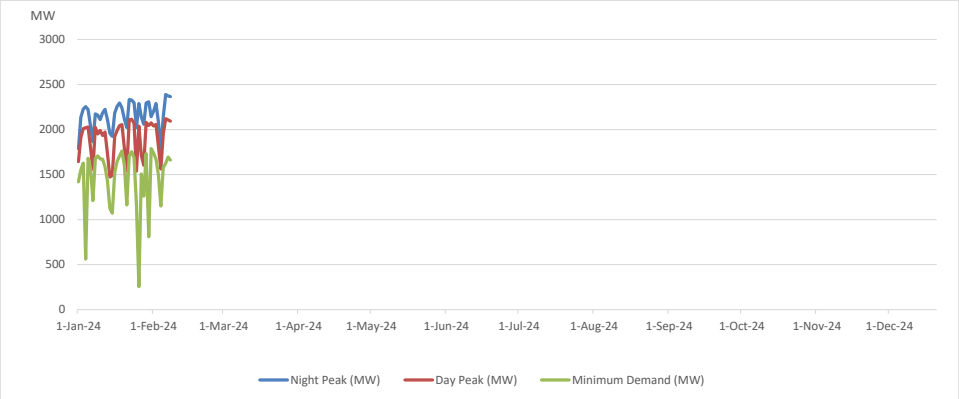
11. Comparison of Total Reservoir Storage Levels with Past Years



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



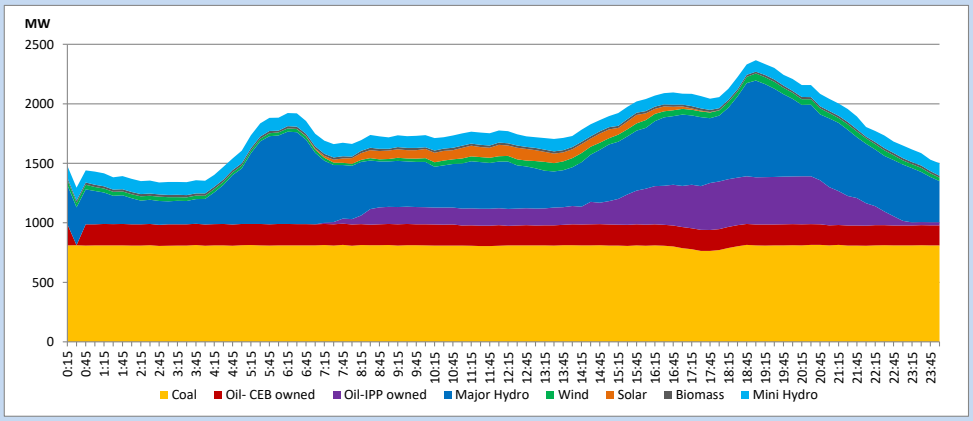
13. Variation of Demand during the current year



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

14. Daily Load Curve

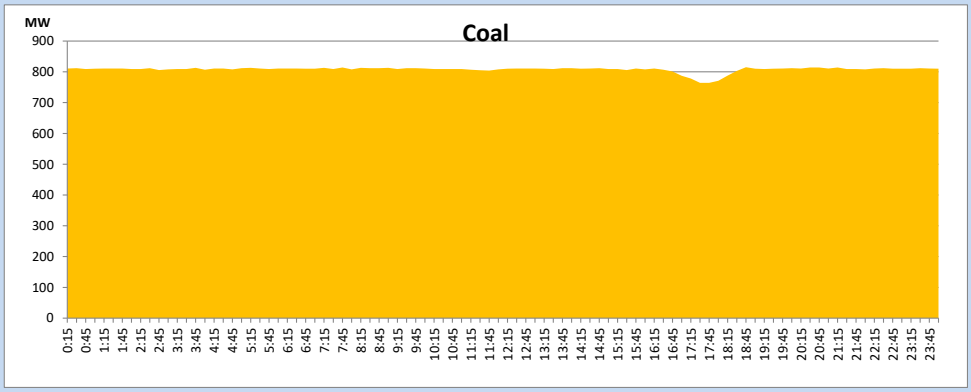
February 8, 2024



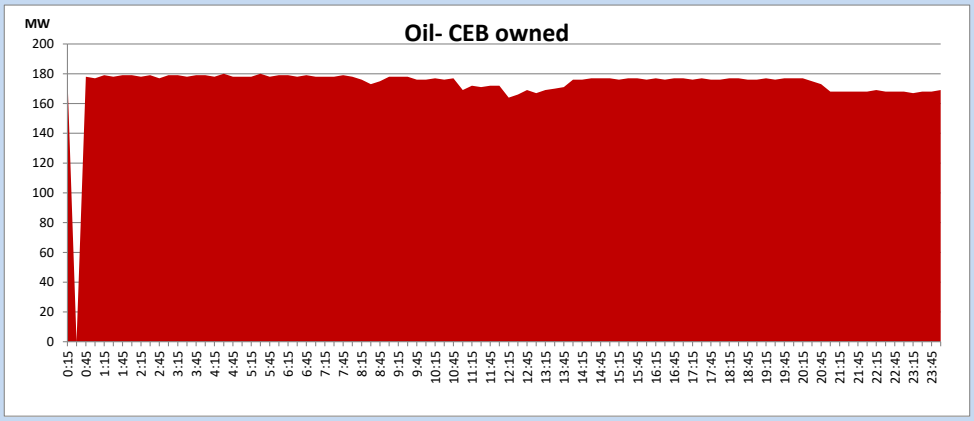
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during

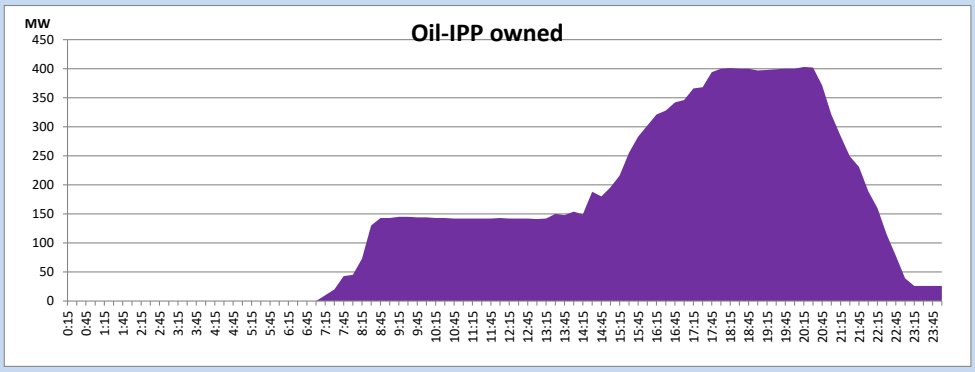
February 8, 2024



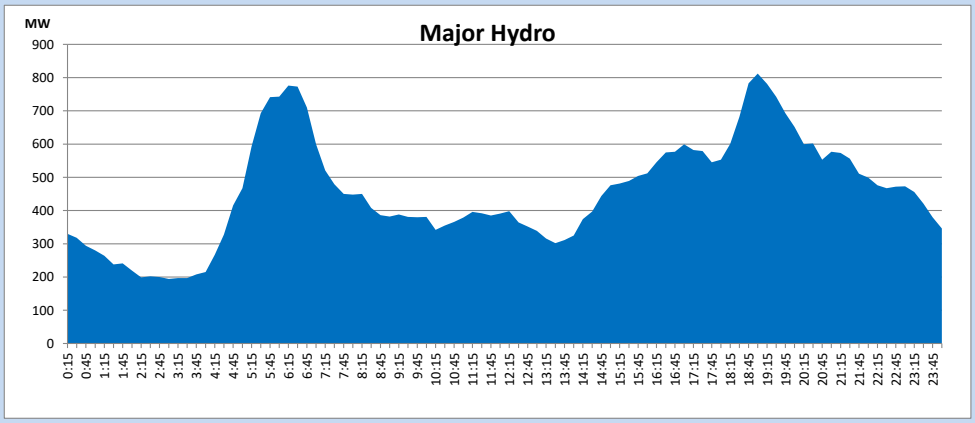
CEB Oil Plant Generation during **February 8, 2024**



IPP Oil Plant Generation during **February 8, 2024**

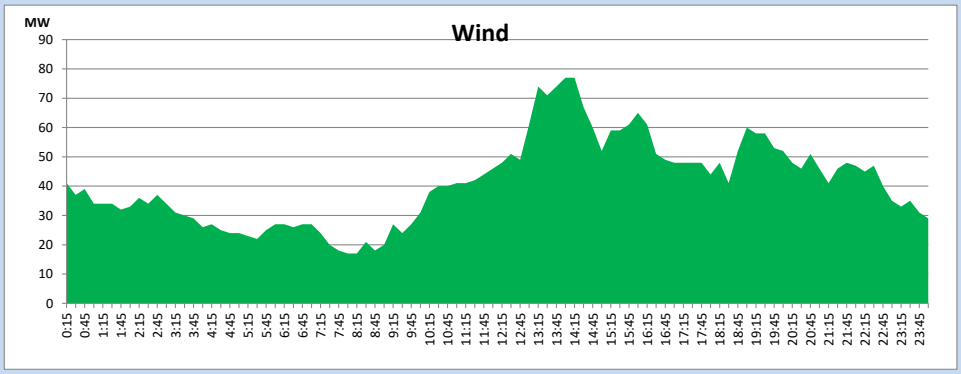


Major Hydro Generation during **February 8, 2024**



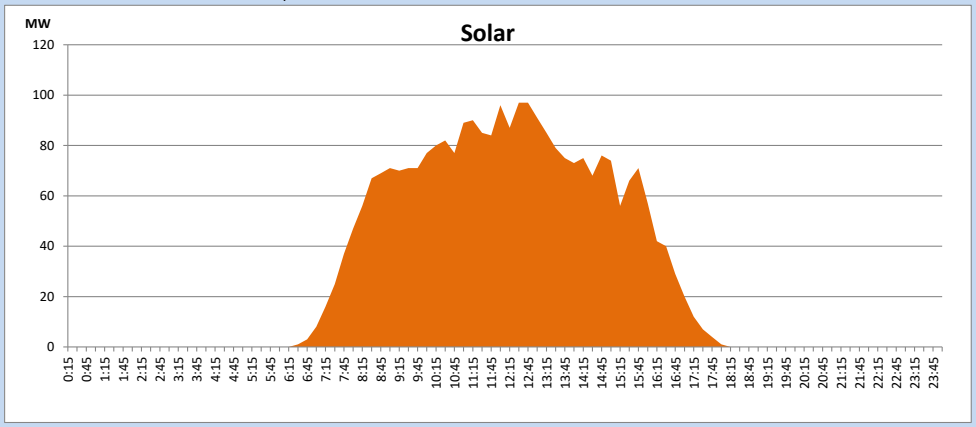
Wind Generation during February 8, 2024

Based on Telemetered Power Stations only

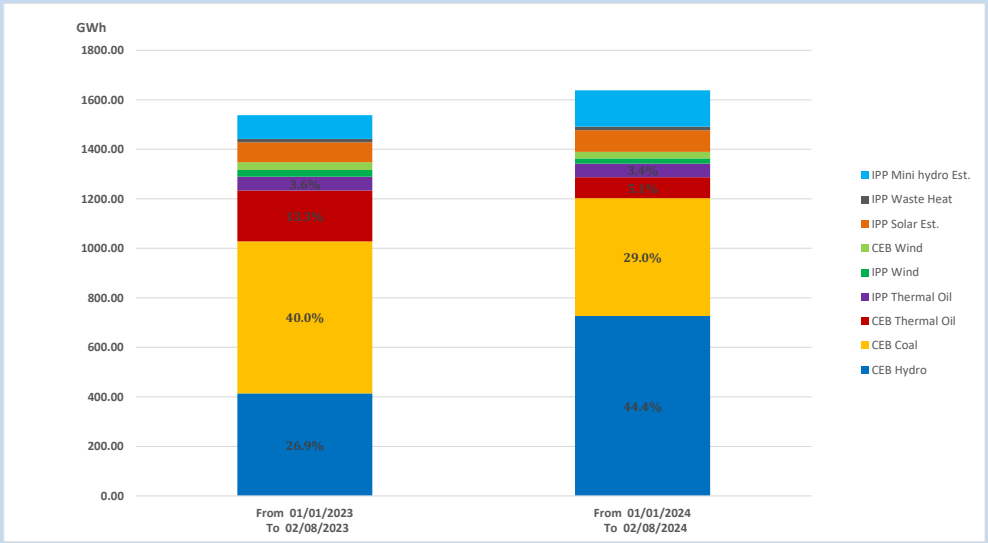


Solar Generation during February 8, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 02/08/2023 **1538 GWh**

From 01/01/2024 To 02/08/2024 **1638 GWh**

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

Unserved energy in 2023 has been excluded

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
ACE Matara	Heavy Fuel
ACE Embilipitiya	Heavy Fuel

Major Incidents reported during the day February 8, 2024

1) Valachchenai GSS 132/33kV T/F 02 tripped only from 33kV side at 07:16hrs along with 33kV feeder 04 and at the same time,
33kV B/S 01 tripped causing 33kV feeders 02, 06 & 08 to be dead, due to the operation of E/F protection. Valachchenai GSS T/F 02 was normalized at 07:41hrs and 33kV B/S CB, 33kV
2) LVPS Unit 02 de-loaded to 220MW (net) at 17:30hrs due to an Intercepting Valve malfunction. LVPS Unit 02 reached full load at 18:45hrs.

3) Sapugaskanda P/S generator 03 tripped at 02:47hrs (09.02.24) rejecting 16MW from the system due to the mixing tank level high alarm.
The generator resumed generation at 03:44hrs (09.02.24).