Generation and Reservoirs Statistics

January 27, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

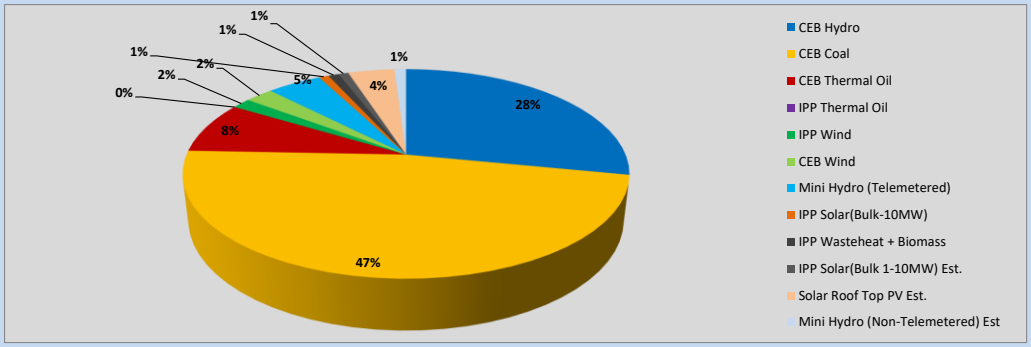


Table 01

	Generation (MWh)
CEB Hydro	11,504
CEB Coal	19,471
CEB Thermal Oil	3,274
IPP Thermal Oil	-
IPP Wind	661
CEB Wind	995
Mini Hydro (Telemetered)	1,929
IPP Solar (Bulk)	345
IPP Waste heat + Biomass	370
Total Generation (Excluding estimated figures)	**38,549**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	411
* Estimated IPP Solar PV (Bulk 1-10MW)	353
* Estimated Solar Roof Top PV	1650
Total Generation (Including estimated figures)	**40,963**

*** 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	579	51.55%
CEB Coal	250	22.24%
CEB Thermal Oil	43	3.86%
IPP Thermal	43	3.79%
SPP Wind	14	1.21%
CEB Wind	18	1.59%
Mini Hydro *	107	9.51%
IPP Solar *	61	5.40%
IPP Waste heat + BMP	10	0.86%
Total	**1,123**	

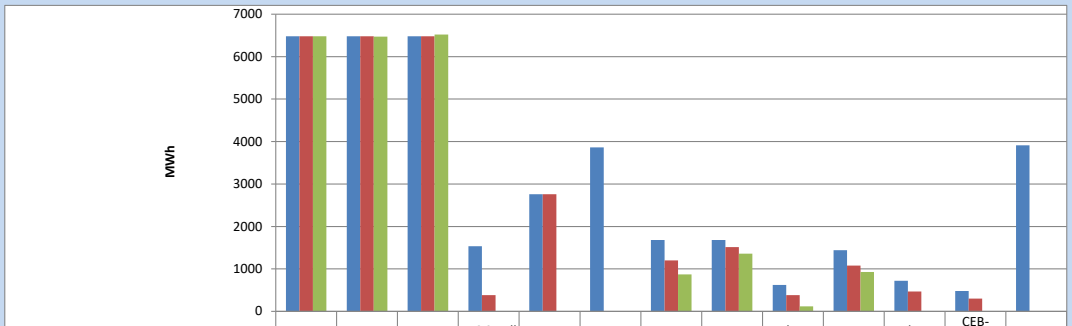
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	579	51.55%
CEB Coal	250	22.24%
CEB Thermal Oil	43	3.86%
IPP Thermal	43	3.79%
SPP Wind	14	1.21%
CEB Wind	18	1.59%
Mini Hydro *	107	9.51%
IPP Solar *	61	5.40%
IPP Waste heat	10	0.86%
Total	**1,123**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

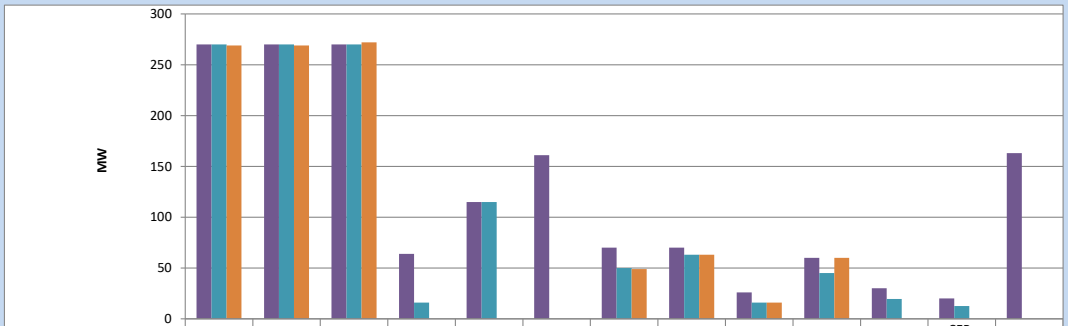
January 27, 2024



	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	0	1200	1512	384	1080	468	300	0
Actual generation (MWh)	6478	6472	6521	0	0	0	870	1361	117	926	0	0	0

Available Generation is estimated based on plant availability at 6.00am on January 28, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

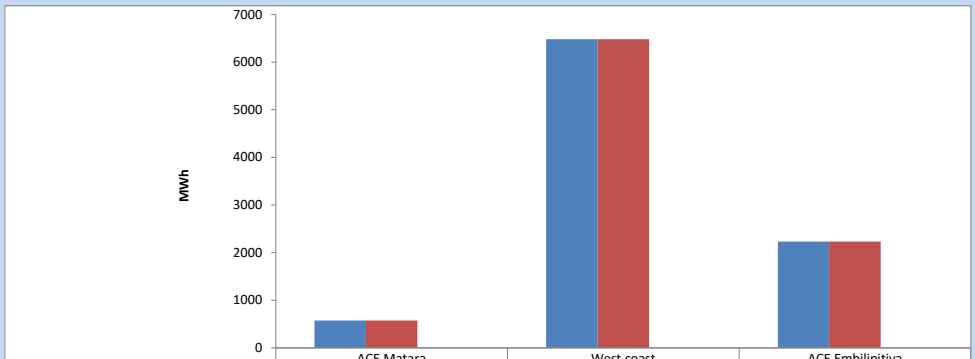


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	70	70	26	60	30	20	163
Available Capacity (MW)	270	270	270	16	115	0	50	63	16	45	20	13	0
Night Peak Load (MW)	269	269	272	0	0	0	49	63	16	60	0	0	0

Plant availability is recorded at 6.00 am on January 28, 2024

5. IPP owned Thermal Plant Dispatch

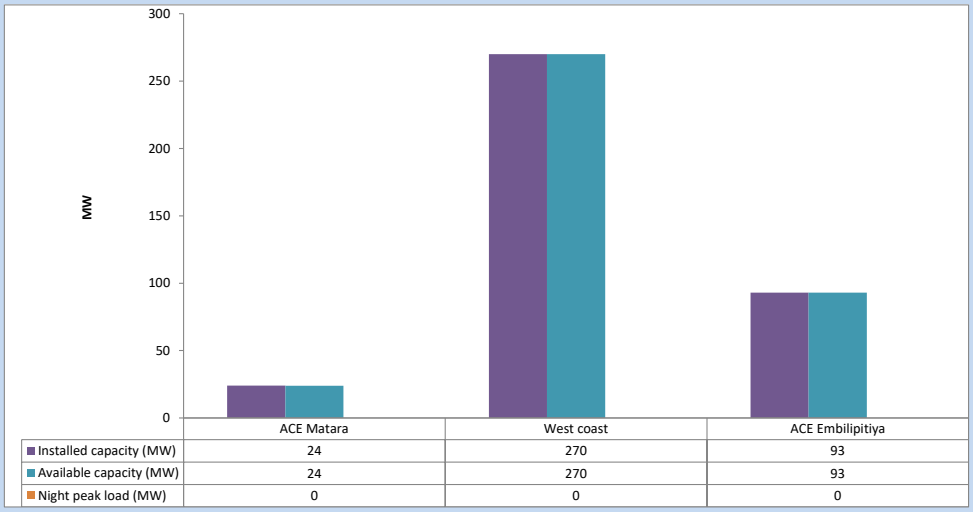
January 27, 2024



	ACE Matara	West coast	ACE Embilipitiya
Rated Daily Generation Capacity (MWh)	576	6480	2232
Available Generation (MWh)	574	6480	2232
Actual generation (MWh)	0	0	0

Available Generation is estimated based on plant availability at 6.00am on January 28, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

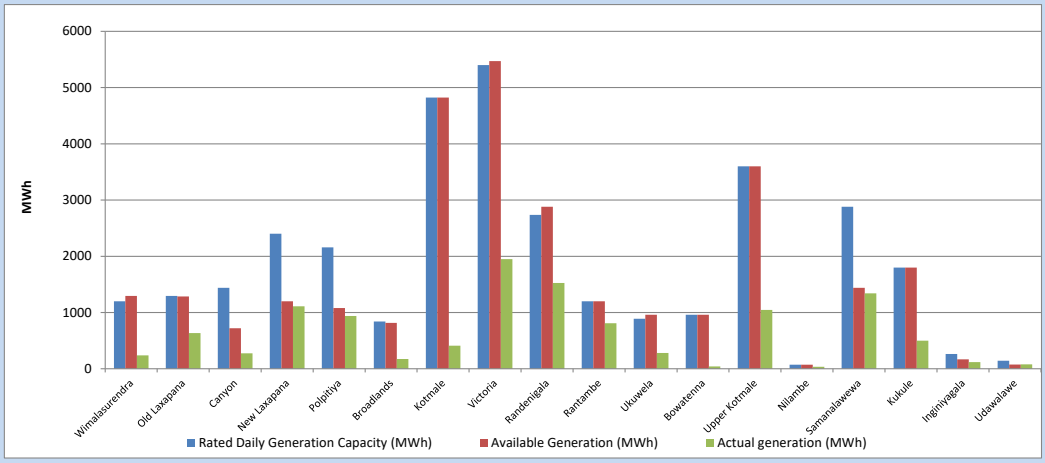


	ACE Matara	West coast	ACE Embilipitiya
Installed capacity (MW)	24	270	93
Available capacity (MW)	24	270	93
Night peak load (MW)	0	0	0

Plant availability is recorded at 6.00 am on January 28, 2024

7. Major Hydro Plant Dispatch

January 27, 2024

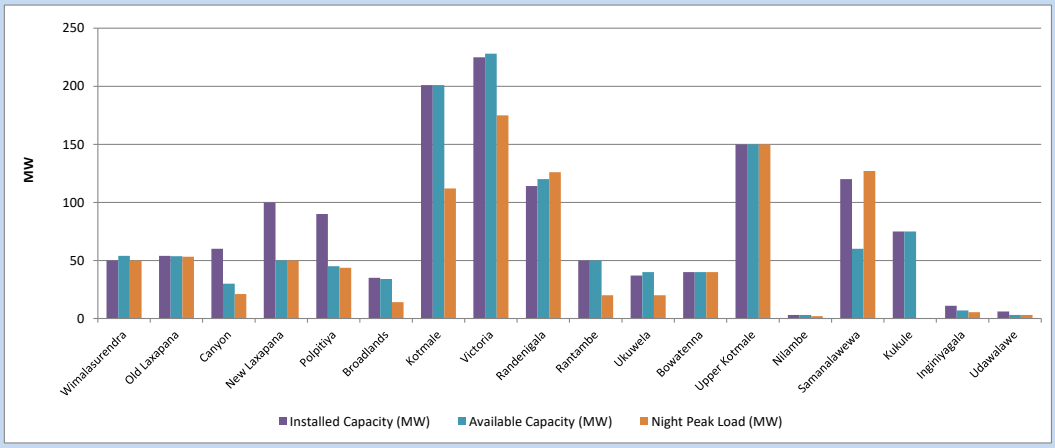


Available Generation is estimated based on plant availability at 6.00am on January 28, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

January 27, 2024



Plant availability is recorded at 6.00 am on January 28, 2024

Broadlands power plant is operating in the Commissioning Stage

9. Summary of Major Plant performance

Table 05

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	54	50	238
Old Laxapana	54	54	53	635
Canyon	60	30	21	274
New Laxapana	100	50	50	1,110
Polpitiya	90	45	44	940
Broadlands	35	34	14	173
Kotmale	201	201	112	410
Victoria	225	228	175	1,949
Randenigala	114	120	126	1,527
Rantambe	50	50	20	810
Ukuwela	37	40	20	281
Bowatenna	40	40	40	40
Upper Kotmale	150	150	150	1,046
Nilambe	3	3	2	34
Samanalawewa	120	60	127	1,341
Kukule	75	75	0	500
Inginiyagala	11	7	5	118
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	269	6,478
Puttalam Coal II	270	270	269	6,472
Puttalam Coal III	270	270	272	6,521
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	0	0	0
Sapugaskanda A	70	50	49	870
Sapugaskanda B	70	63	63	1,361
Uthura Janani	26	16	16	117
Barge CEB	60	45	60	926
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	270	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,778	2,112	38,549

Plant availability is the availability recorded at 6 am on January 28, 2024

10. Contribution to the Night Peak in MW

January 27, 2024

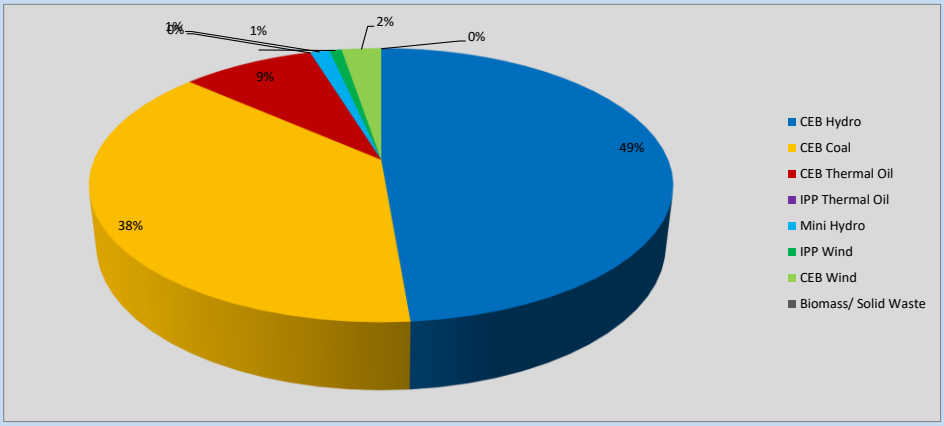


Table 06

CEB Hydro	1042	MW
CEB Coal	810	MW
CEB Thermal Oil	188	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	28	MW
IPP Wind	17.3	MW
CEB Wind	56.2	MW
Biomass/ Solid Waste	0	MW

Recorded Peak Demand Data

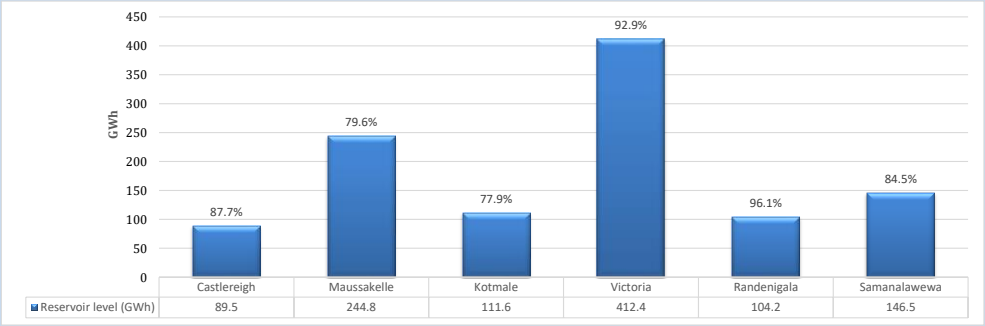
Table 07

Night Peak*	2,142	MW
Day Peak Maximum Demand	1,712	MW
Day Peak Minimum Demand	1,506	MW
Off Peak Minimum Demand	1,272	MW

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

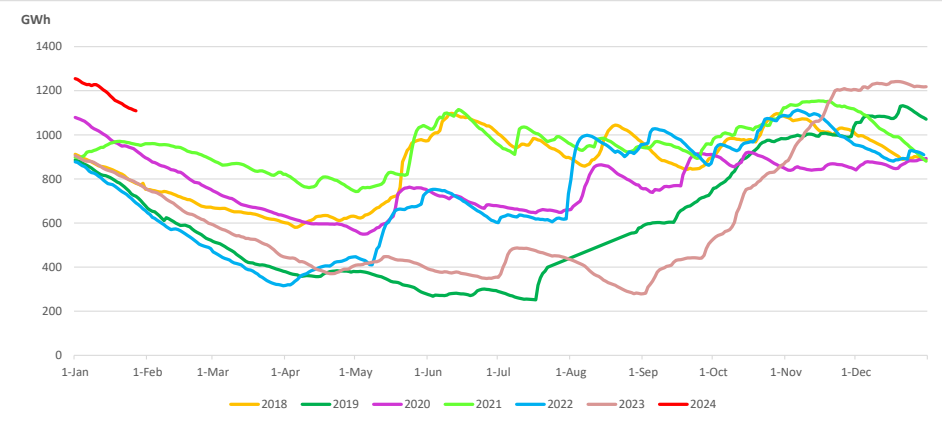
Reservoir Levels -

as at 06.00 Hr on January 28, 2024

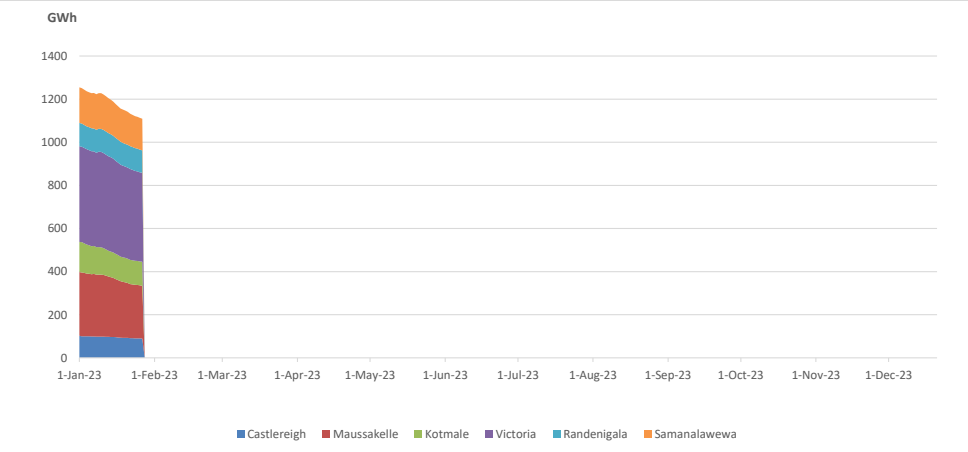


Total Reservoir Level 1109 GWh
% of Total capacity 86.7%

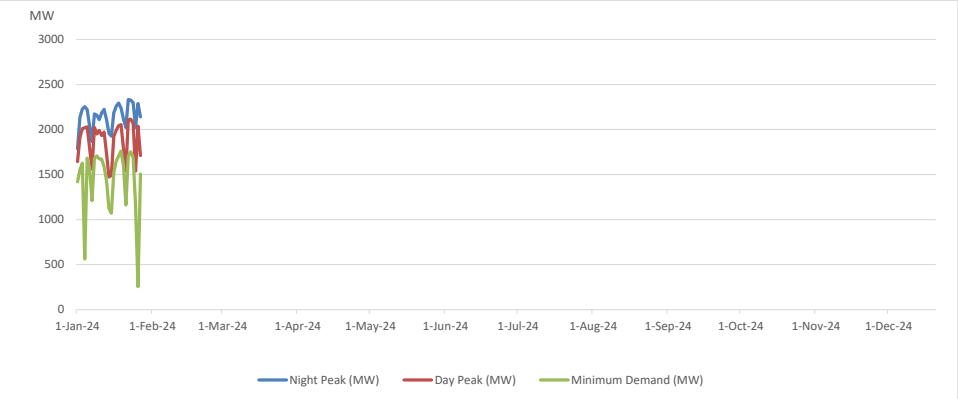
11. Comparison of Total Reservoir Storage Levels with Past Years



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

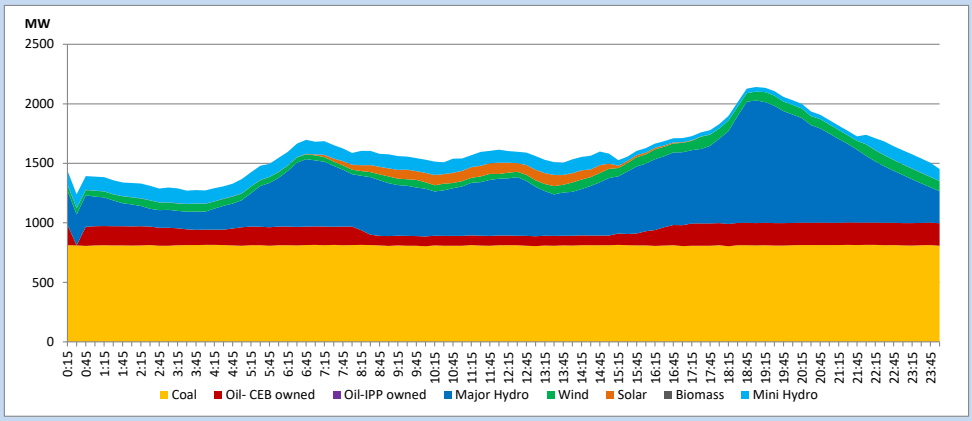


13. Variation of Demand during the current year



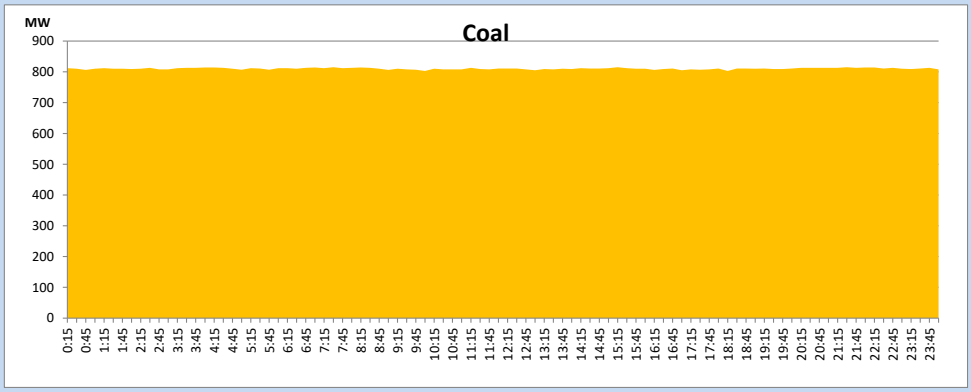
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve January 27, 2024

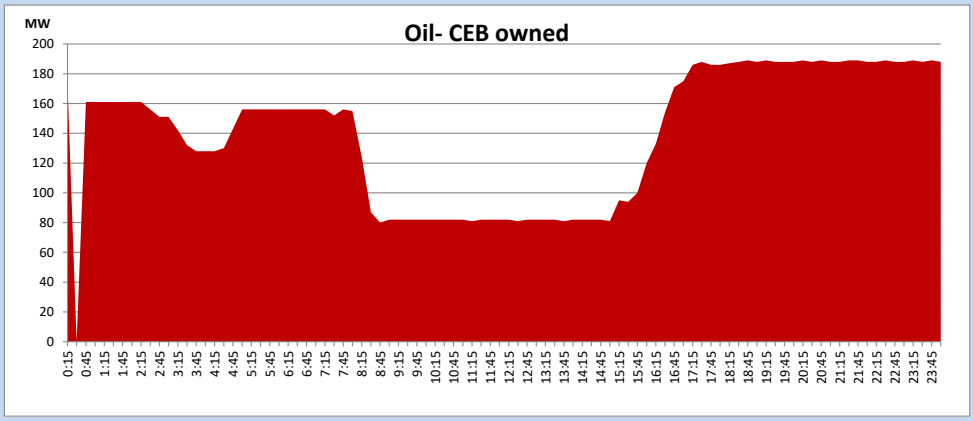


Solar and wind data is based on Telemetered Power Stations only

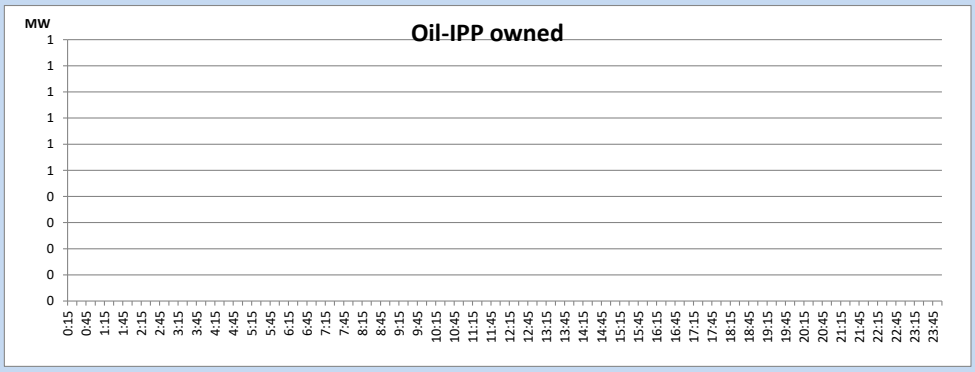
Coal Generation during January 27, 2024



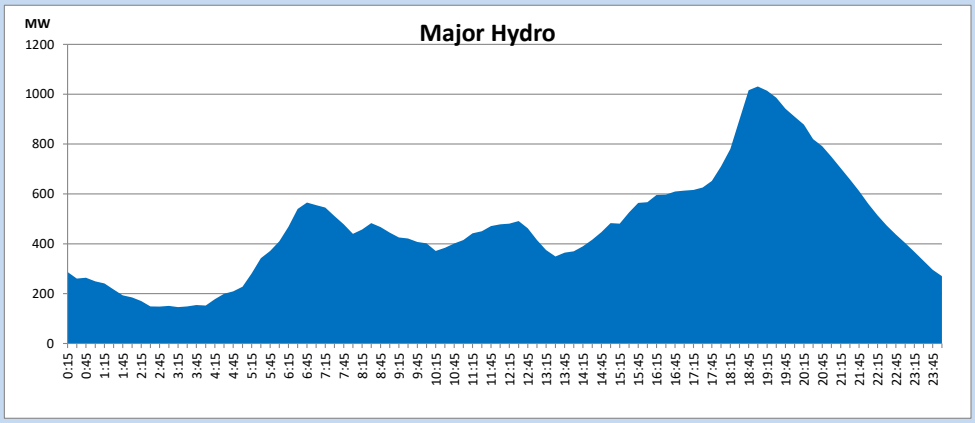
CEB Oil Plant Generation during **January 27, 2024**



IPP Oil Plant Generation during **January 27, 2024**

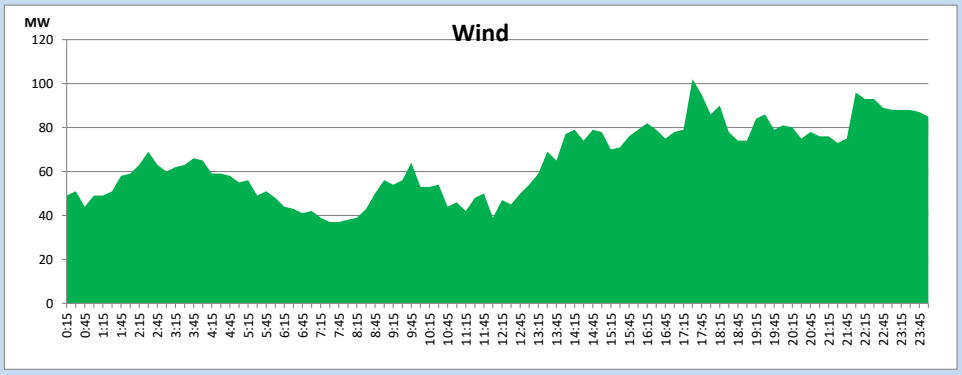


Major Hydro Generation during **January 27, 2024**



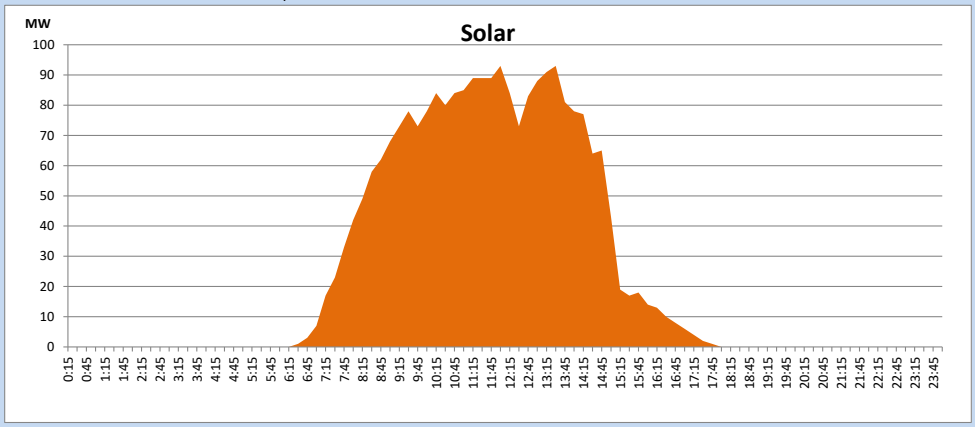
Wind Generation during January 27, 2024

Based on Telemetered Power Stations only

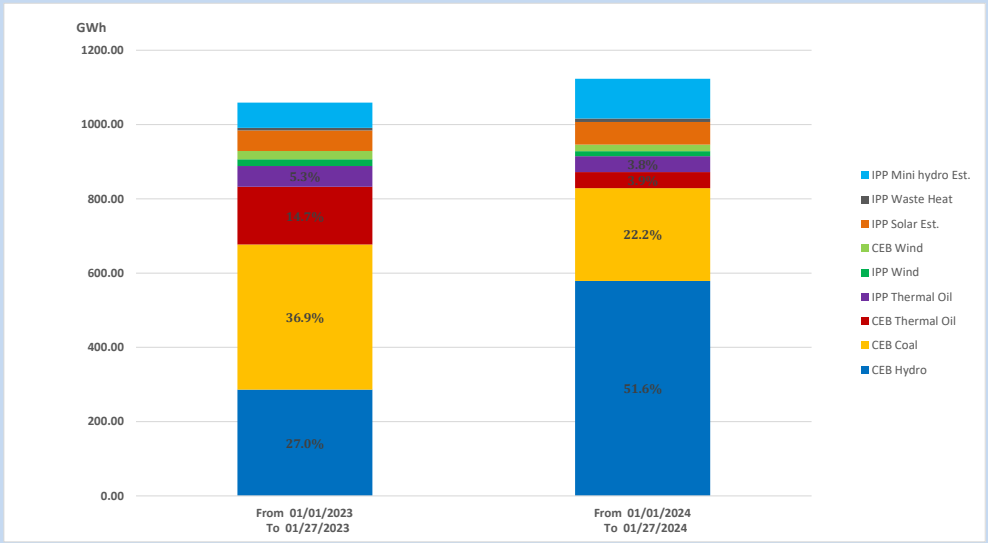


Solar Generation during January 27, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

* **From 01/01/2023 To 01/27/2023** **1059 GWh**

From 01/01/2024 To 01/27/2024 **1123 GWh**

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

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 January 27, 2024

1) New Chillaw – Veyangoda 220kV cct 02 tripped and A/R from both ends at 02:34hrs(28.01.2024). The cct again tripped from both ends at 02:34hrs(28.01.2024) due to the operation of differential and distance protection. System frequency raised to 50.54Hz due to this disturbance. The cct is yet to be normalized.