Generation and Reservoirs Statistics

January 29, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

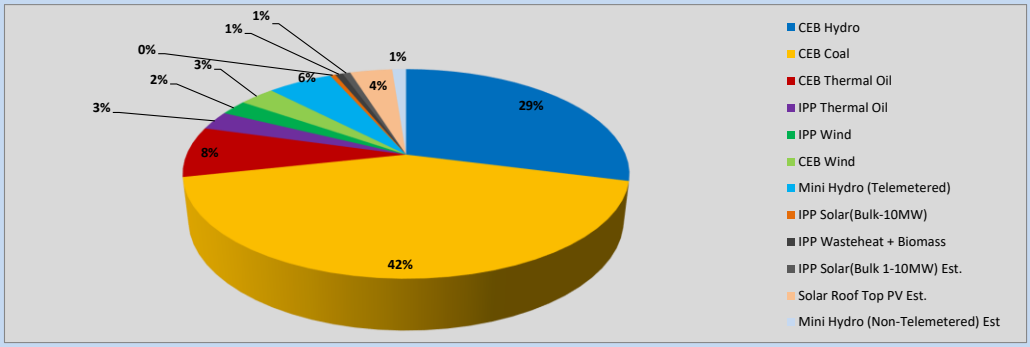


Table 01

	Generation (MWh)
CEB Hydro	13,088
CEB Coal	19,217
CEB Thermal Oil	3,519
IPP Thermal Oil	1,317
IPP Wind	1,058
CEB Wind	1,391
Mini Hydro (Telemetered)	2,539
IPP Solar (Bulk)	212
IPP Waste heat + Biomass	293
Total Generation (Excluding estimated figures)	**42,634**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	541
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
Total Generation (Including estimated figures)	**45,129**

*** 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	603	49.96%
CEB Coal	285	23.64%
CEB Thermal Oil	50	4.16%
IPP Thermal	44	3.64%
SPP Wind	16	1.29%
CEB Wind	21	1.70%
Mini Hydro *	113	9.35%
IPP Solar *	65	5.40%
IPP Waste heat + BMP	10	0.85%
Total	**1,206**	

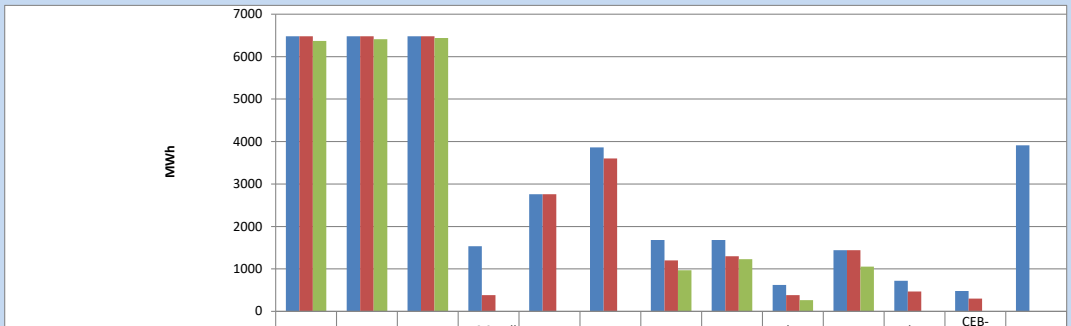
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	603	49.96%
CEB Coal	285	23.64%
CEB Thermal Oil	50	4.16%
IPP Thermal	44	3.64%
SPP Wind	16	1.29%
CEB Wind	21	1.70%
Mini Hydro *	113	9.35%
IPP Solar *	65	5.40%
IPP Waste heat	10	0.85%
Total	**1,206**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

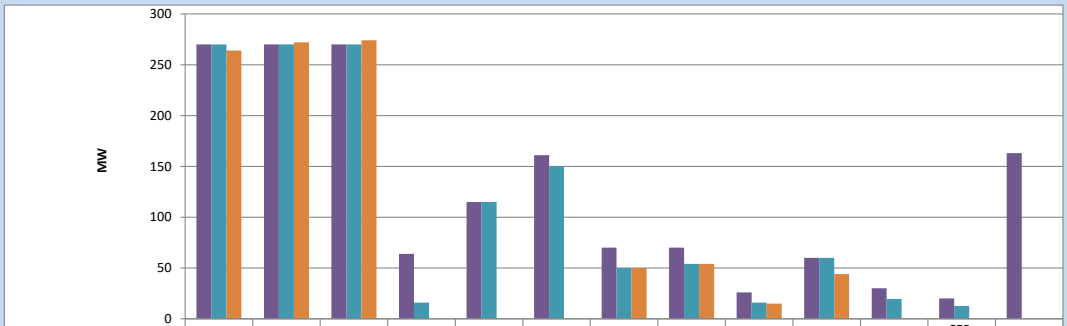
January 29, 2024



	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	468	300	0
Actual generation (MWh)	6371	6409	6437	0	0	0	970	1230	264	1055	0	0	0

Available Generation is estimated based on plant availability at 6.00am on January 30, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

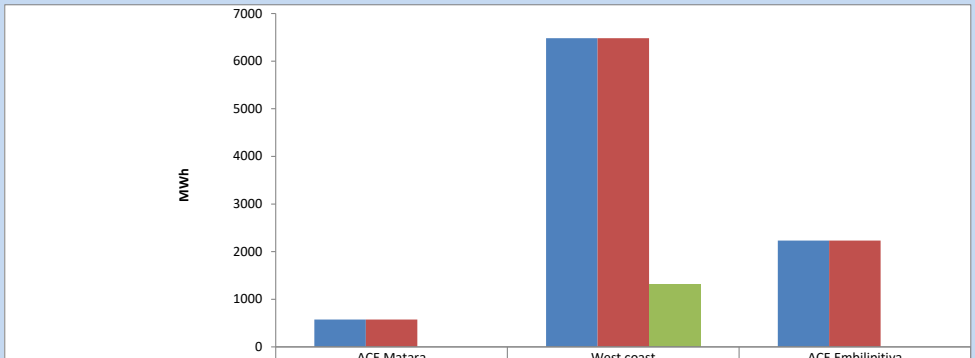


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	70	70	26	60	30	20	163
Available Capacity (MW)	270	270	270	16	115	150	50	54	16	60	20	13	0
Night Peak Load (MW)	264	272	274	0	0	0	50	54	15	44	0	0	0

Plant availability is recorded at 6.00 am on January 30, 2024

5. IPP owned Thermal Plant Dispatch

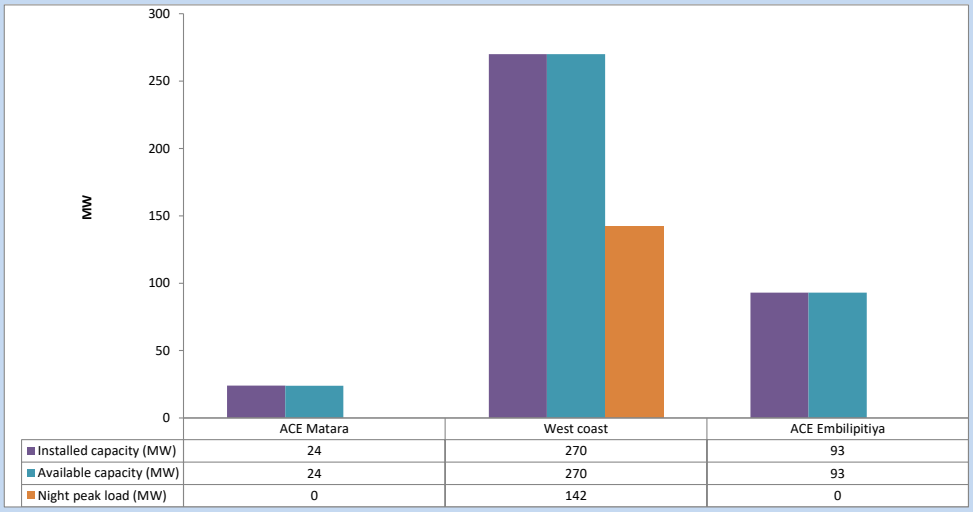
January 29, 2024



	ACE Matara	West coast	ACE Embilipitiya
Rated Daily Generation Capacity (MWh)	576	6480	2232
Available Generation (MWh)	574	6480	2232
Actual generation (MWh)	0	1317	0

Available Generation is estimated based on plant availability at 6.00am on January 30, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

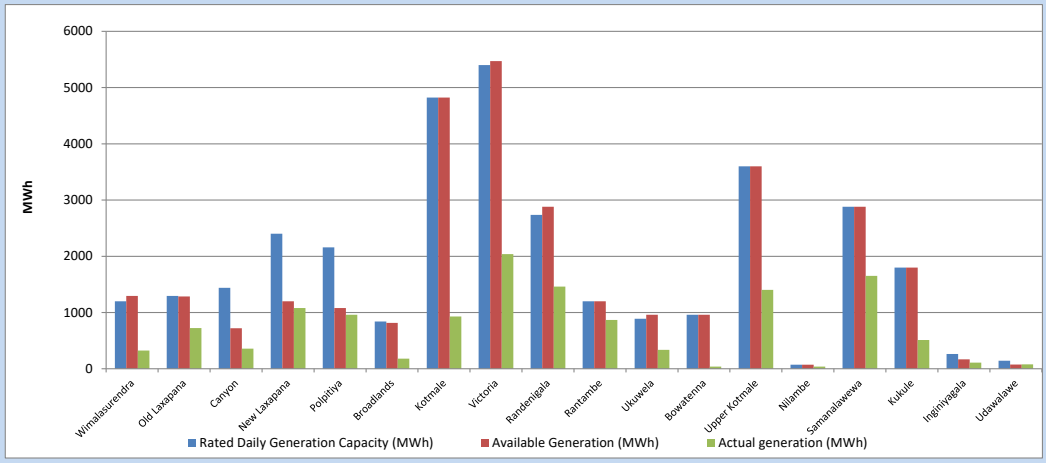


	ACE Matara	West coast	ACE Embilipitiya
Installed capacity (MW)	24	270	93
Available capacity (MW)	24	270	93
Night peak load (MW)	0	142	0

Plant availability is recorded at 6.00 am on January 30, 2024

7. Major Hydro Plant Dispatch

January 29, 2024

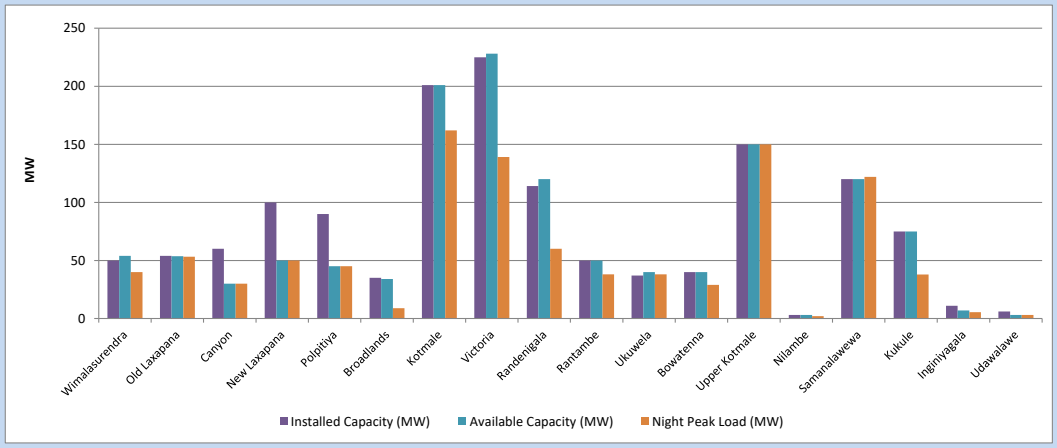


Available Generation is estimated based on plant availability at 6.00am on January 30, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

January 29, 2024



Plant availability is recorded at 6.00 am on January 30, 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	40	324
Old Laxapana	54	54	53	725
Canyon	60	30	30	358
New Laxapana	100	50	50	1,081
Polpitiya	90	45	45	960
Broadlands	35	34	9	179
Kotmale	201	201	162	930
Victoria	225	228	139	2,038
Randenigala	114	120	60	1,462
Rantambe	50	50	38	868
Ukuwela	37	40	38	336
Bowatenna	40	40	29	37
Upper Kotmale	150	150	150	1,402
Nilambe	3	3	2	38
Samanalawewa	120	120	122	1,652
Kukule	75	75	38	512
Inginiyagala	11	7	5	108
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	264	6,371
Puttalam Coal II	270	270	272	6,409
Puttalam Coal III	270	270	274	6,437
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	50	50	970
Sapugaskanda B	70	54	54	1,230
Uthura Janani	26	16	15	264
Barge CEB	60	60	44	1,055
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	142	1,317
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,994	2,300	42,634

Plant availability is the availability recorded at 6 am on January 30, 2024

10. Contribution to the Night Peak in MW

January 29, 2024

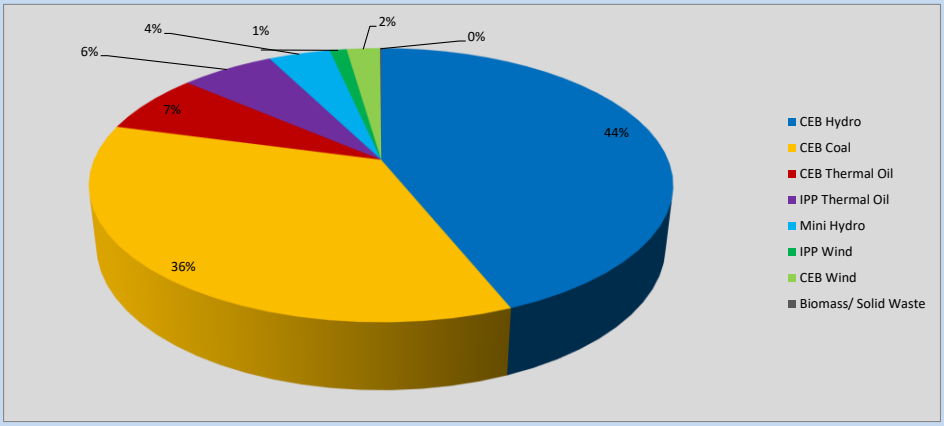


Table 06

CEB Hydro	1007	MW
CEB Coal	810	MW
CEB Thermal Oil	163	MW
IPP Thermal Oil	142	MW
Mini Hydro (Telemetered)	94	MW
IPP Wind	25.8	MW
CEB Wind	50.5	MW
Biomass/ Solid Waste	2	MW

Recorded Peak Demand Data

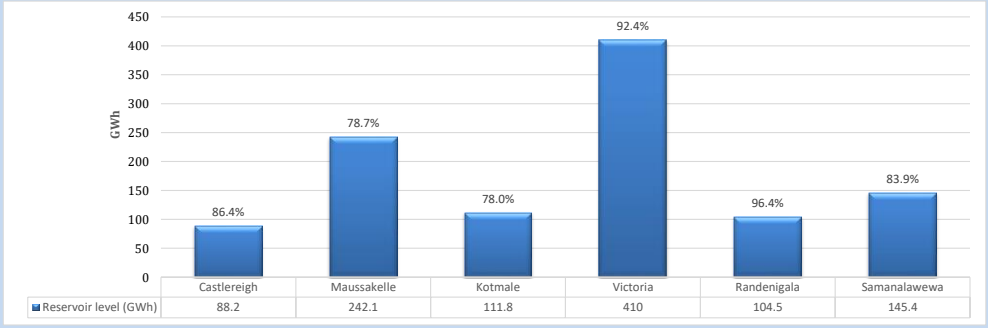
Table 07

Night Peak*	2,294	MW
Day Peak Maximum Demand	2,080	MW
Day Peak Minimum Demand	1,732	MW
Off Peak Minimum Demand	1,224	MW

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

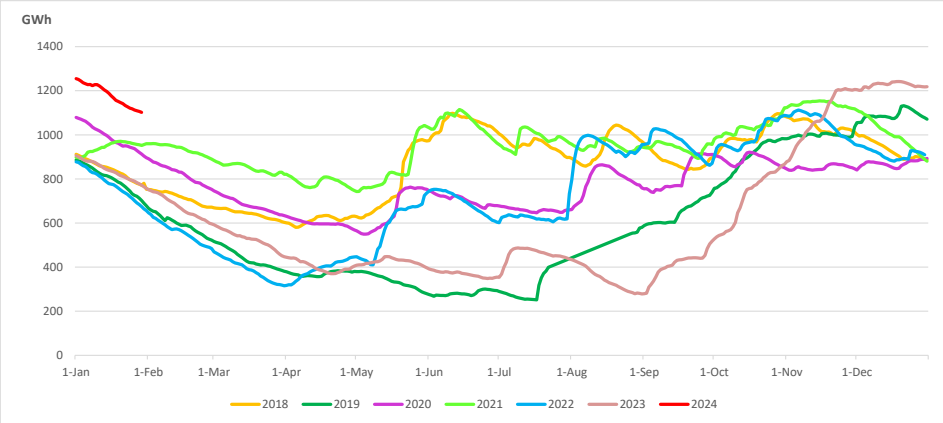
Reservoir Levels -

as at 06.00 Hr on January 30, 2024

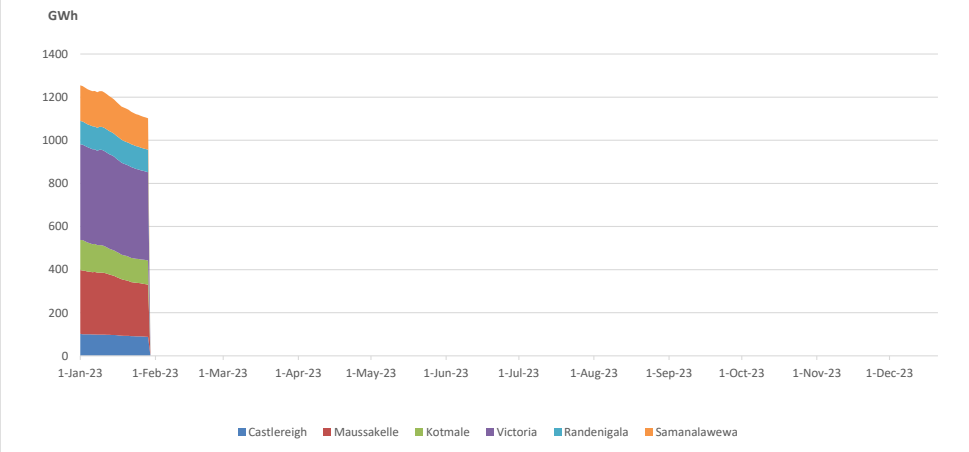


Total Reservoir Level 1102 GWh
% of Total capacity 86.2%

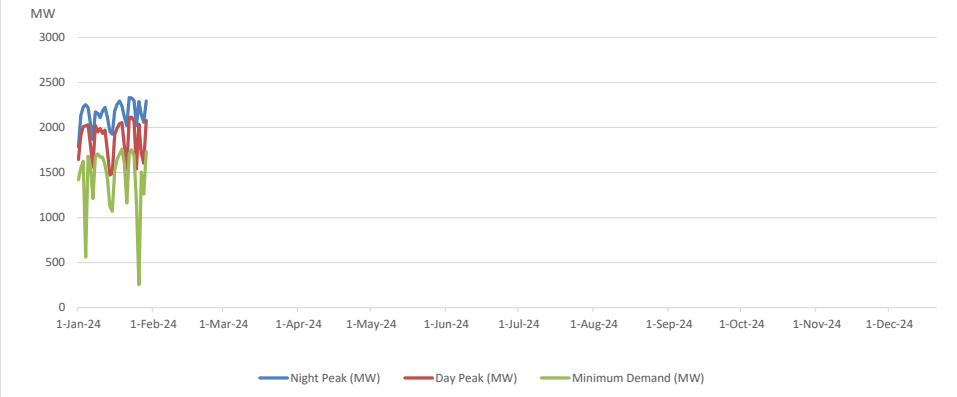
11. Comparison of Total Reservoir Storage Levels with Past Years



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

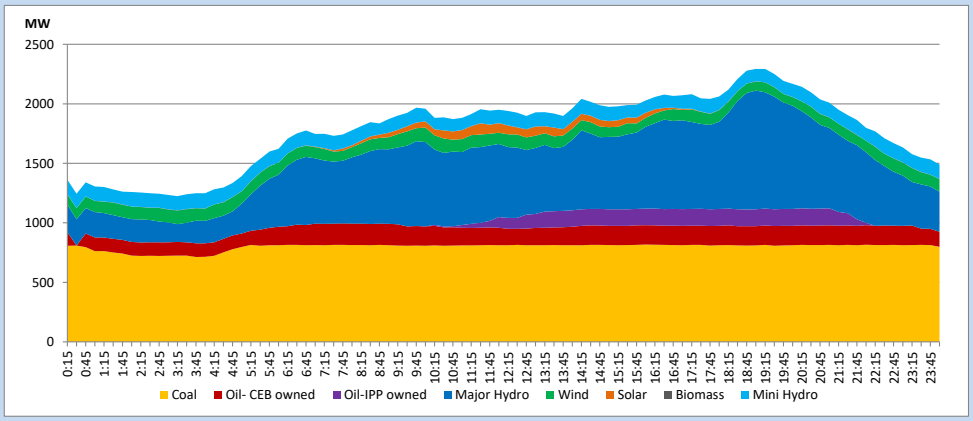


13. Variation of Demand during the current year



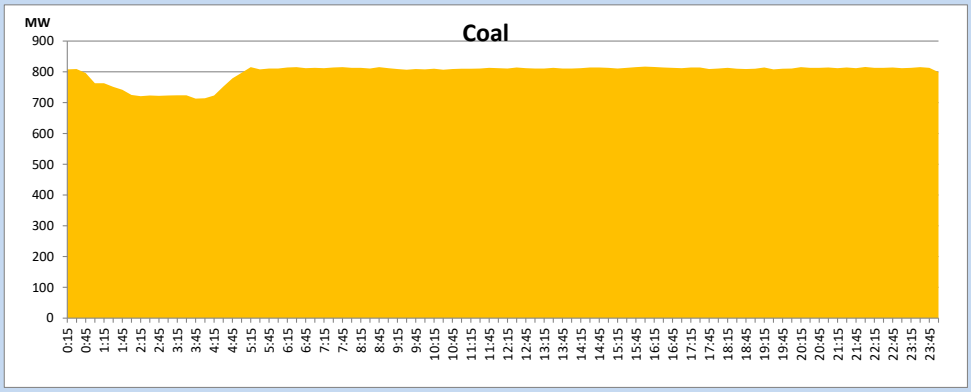
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve January 29, 2024

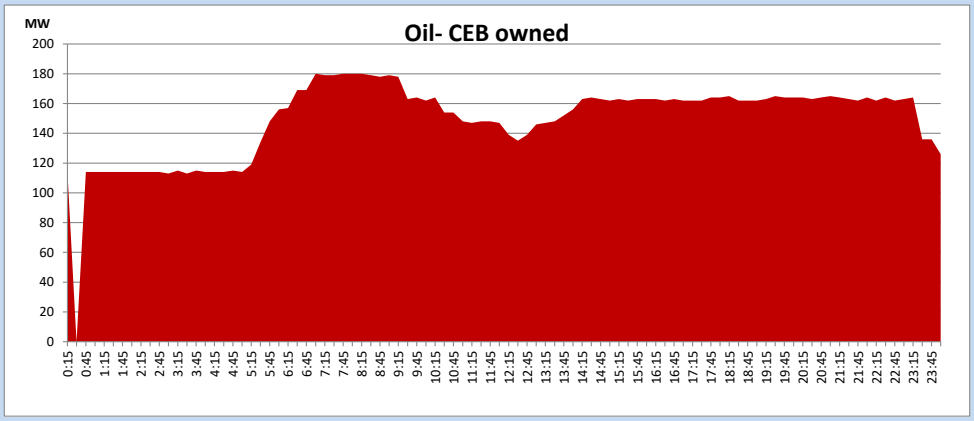


Solar and wind data is based on Telemetered Power Stations only

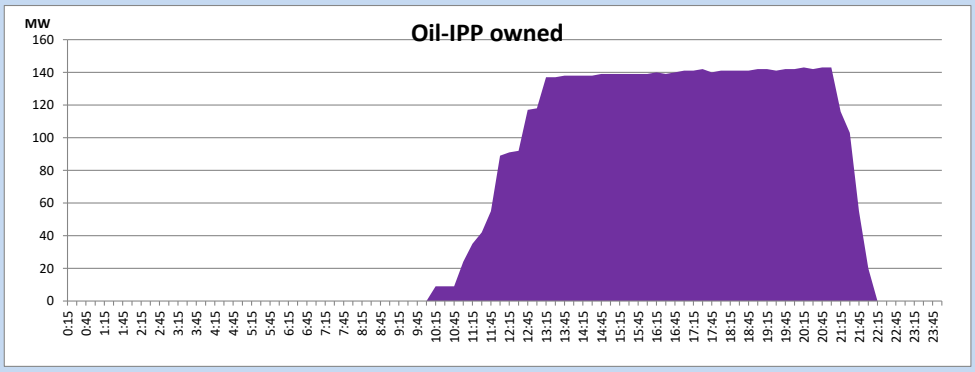
Coal Generation during January 29, 2024



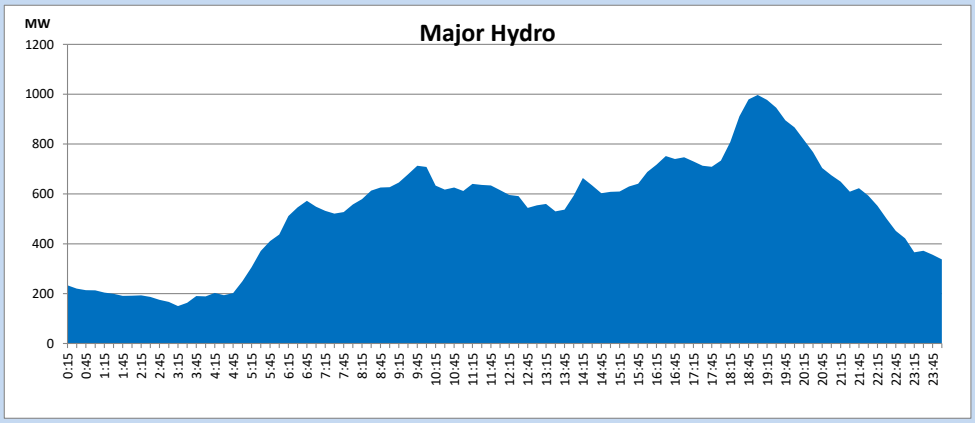
CEB Oil Plant Generation during **January 29, 2024**



IPP Oil Plant Generation during **January 29, 2024**

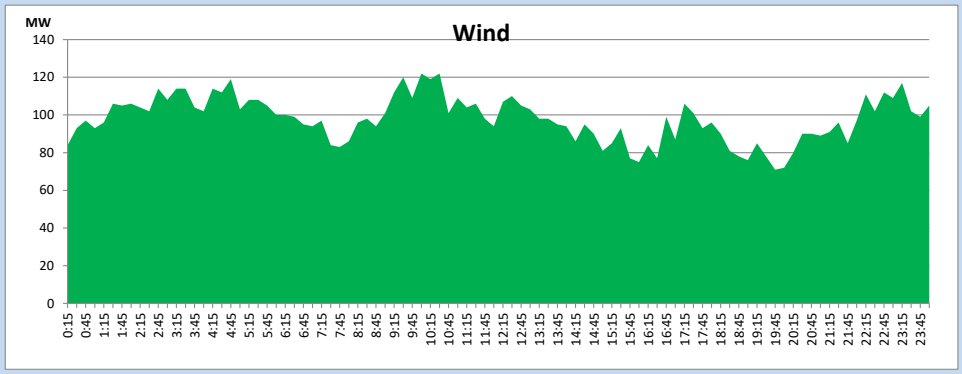


Major Hydro Generation during **January 29, 2024**



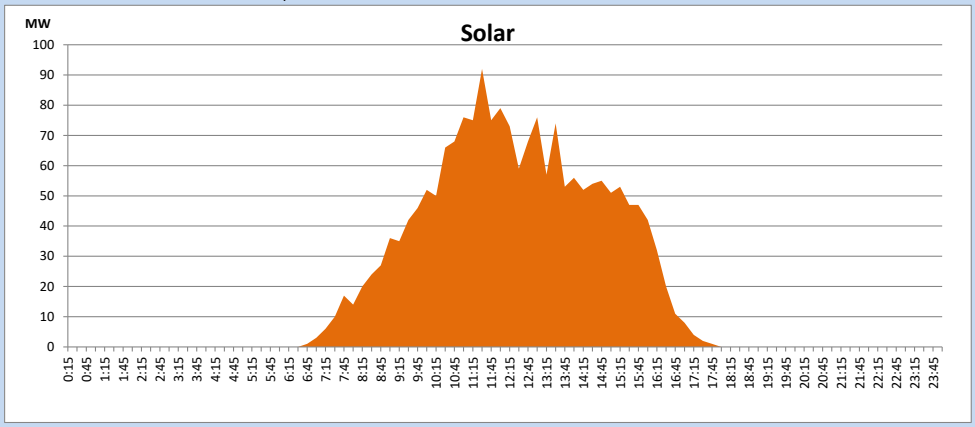
Wind Generation during January 29, 2024

Based on Telemetered Power Stations only

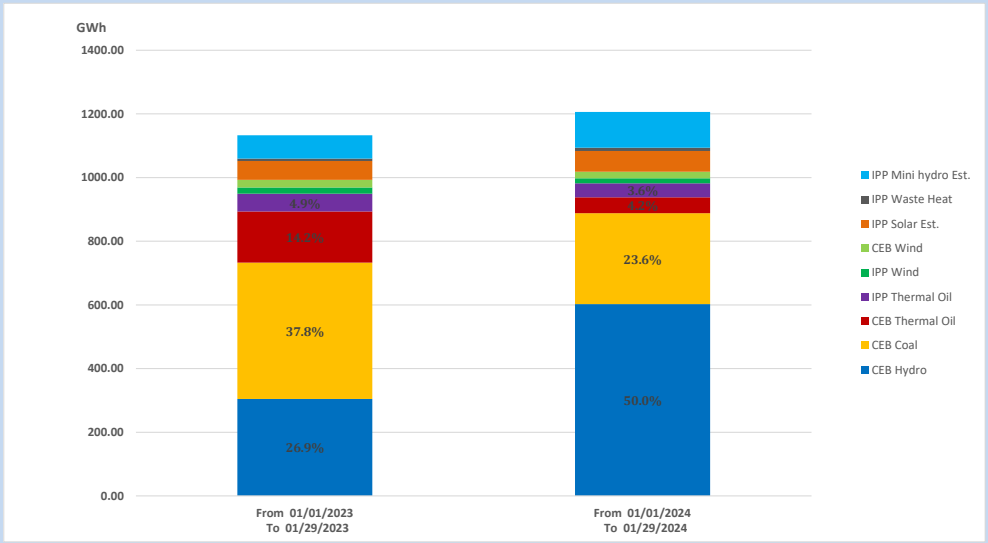


Solar Generation during January 29, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

*	**From 01/01/2023 To 01/29/2023**	**1133 GWh**
	From 01/01/2024 To 01/29/2024	**1206 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 29, 2024

1) Biyagama 220/132/33kV T/F 01 which tripped on 28.01.2024, was normalized at 12:12hrs
2) Randenigala unit 01 tripped at 13:05hrs, rejecting 46MW from the system due to an excitation system fault.Randenigala unit 01 resumed generation at 19:48hrs.
3) Kosgama - Kolonnawa 132kV cct manually switched off from both ends at 22:21hrs due to gas pressure low alarm at Kosgama end.The cct is yet to be normalized.