Generation and Reservoirs Statistics

January 11, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

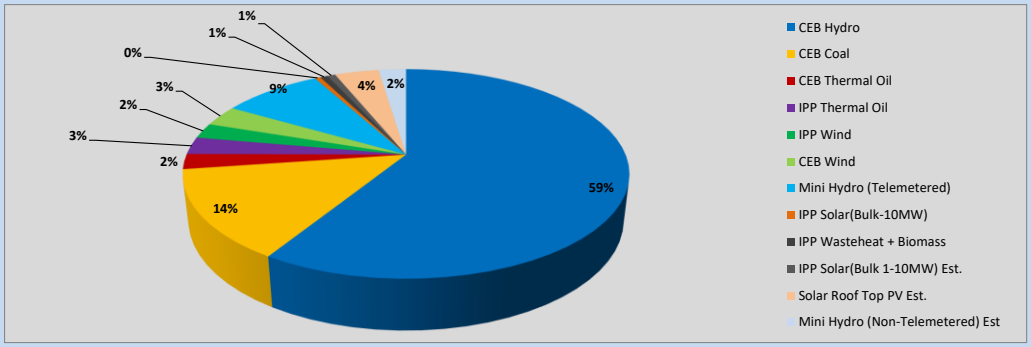


Table 01

	Generation (MWh)
CEB Hydro	25,455
CEB Coal	6,007
CEB Thermal Oil	1,009
IPP Thermal Oil	1,158
IPP Wind	1,020
CEB Wind	1,387
Mini Hydro (Telemetered)	3,736
IPP Solar (Bulk)	210
IPP Waste heat + Biomass	278
Total Generation (Excluding estimated figures)	**40,260**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	1026
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
Total Generation (Including estimated figures)	**43,240**

*** 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	281	60.95%
CEB Coal	65	14.00%
CEB Thermal Oil	8	1.83%
IPP Thermal	16	3.55%
SPP Wind	6	1.26%
CEB Wind	8	1.80%
Mini Hydro *	50	10.74%
IPP Solar *	24	5.12%
IPP Waste heat + BMP	3	0.75%
Total	**462**	

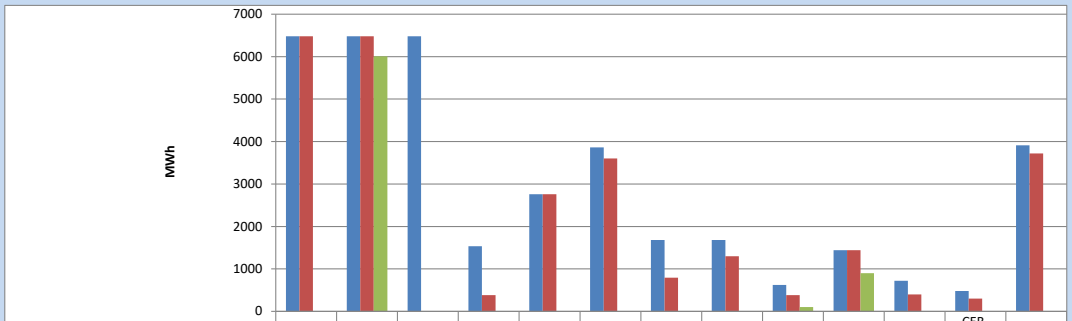
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	281	60.95%
CEB Coal	65	14.00%
CEB Thermal Oil	8	1.83%
IPP Thermal	16	3.55%
SPP Wind	6	1.26%
CEB Wind	8	1.80%
Mini Hydro *	50	10.74%
IPP Solar *	24	5.12%
IPP Waste heat	3	0.75%
Total	**462**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

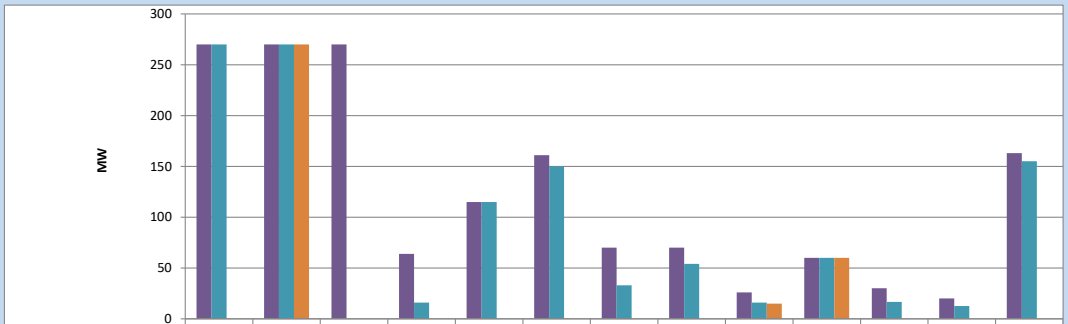
January 11, 2024



	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	0	384	2760	3600	792	1296	384	1440	398	300	3720
Actual generation (MWh)	0	6007	0	0	0	0	7	0	103	899	0	0	0

Available Generation is estimated based on plant availability at 6.00am on January 12, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

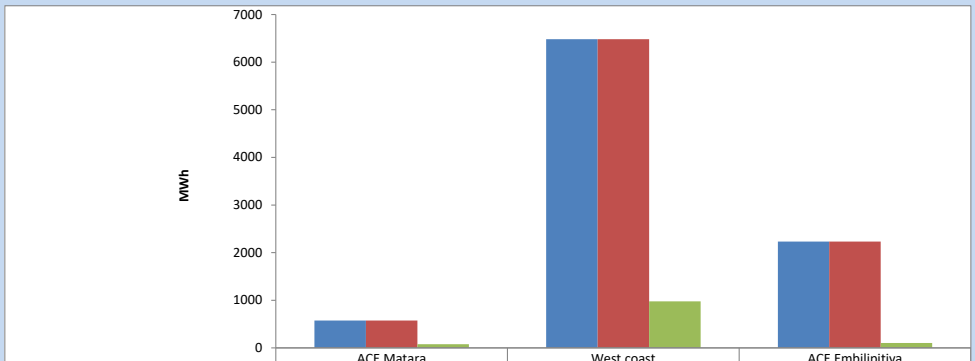


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	64	115	161	70	70	26	60	30	20	163
Available Capacity (MW)	270	270	0	16	115	150	33	54	16	60	17	13	155
Night Peak Load (MW)	0	270	0	0	0	0	0	0	15	60	0	0	0

Plant availability is recorded at 6.00 am on January 12, 2024

5. IPP owned Thermal Plant Dispatch

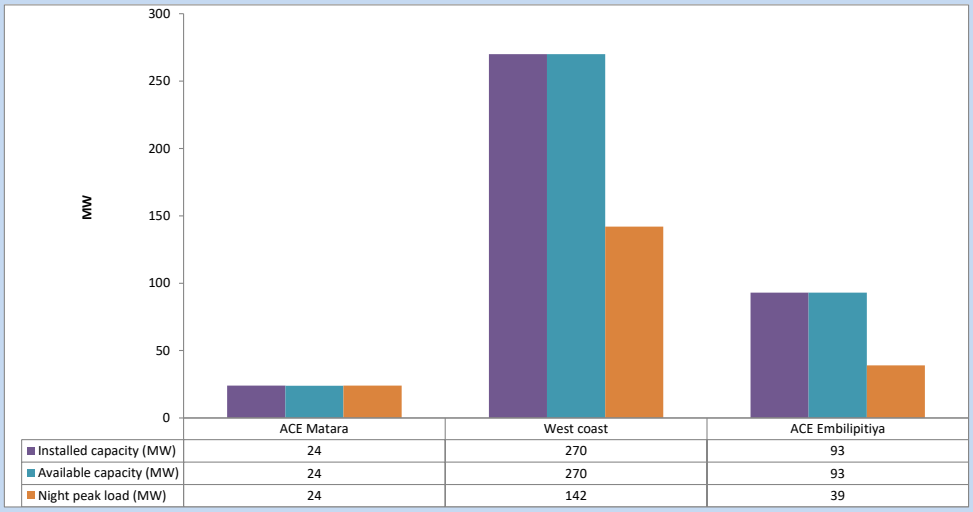
January 11, 2024



	ACE Matara	West coast	ACE Embilipitiya
Rated Daily Generation Capacity (MWh)	576	6480	2232
Available Generation (MWh)	574	6480	2232
Actual generation (MWh)	78	978	102

Available Generation is estimated based on plant availability at 6.00am on January 12, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

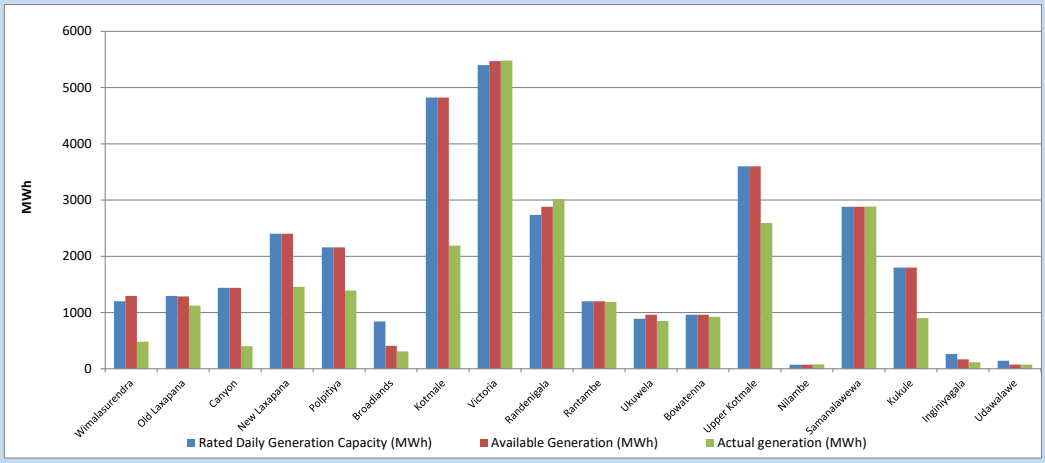


	ACE Matara	West coast	ACE Embilipitiya
Installed capacity (MW)	24	270	93
Available capacity (MW)	24	270	93
Night peak load (MW)	24	142	39

Plant availability is recorded at 6.00 am on January 12, 2024

7. Major Hydro Plant Dispatch

January 11, 2024

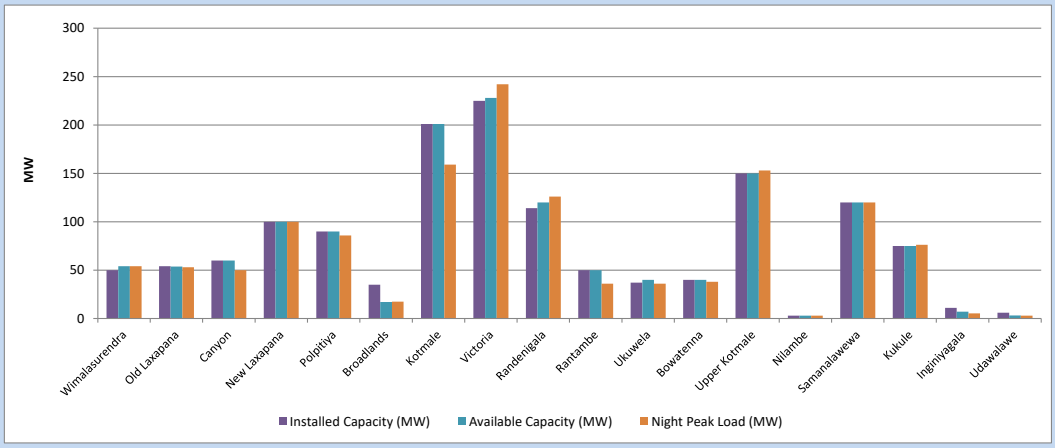


Available Generation is estimated based on plant availability at 6.00am on January 12, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

January 11, 2024



Plant availability is recorded at 6.00 am on January 12, 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	54	482
Old Laxapana	54	54	53	1,122
Canyon	60	60	50	401
New Laxapana	100	100	100	1,458
Polpitiya	90	90	86	1,390
Broadlands	35	17	18	309
Kotmale	201	201	159	2,190
Victoria	225	228	242	5,480
Randenigala	114	120	126	3,020
Rantambe	50	50	36	1,187
Ukuwela	37	40	36	850
Bowatenna	40	40	38	922
Upper Kotmale	150	150	153	2,592
Nilambe	3	3	3	78
Samanalawewa	120	120	120	2,886
Kukule	75	75	76	903
Inginiyagala	11	7	5	114
Udawalawe	6	3	3	71
Puttalam Coal I	270	270	0	0
Puttalam Coal II	270	270	270	6,007
Puttalam Coal III	270	0	0	0
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	33	0	7
Sapugaskanda B	70	54	0	0
Uthura Janani	26	16	15	103
Barge CEB	60	60	60	899
CEB-Hambantota	30	17	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	24	78
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	142	978
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	39	102
Total	3,483	2,967	2,175	40,260

Plant availability is the availability recorded at 6 am on January 12, 2024

10. Contribution to the Night Peak in MW

January 11, 2024

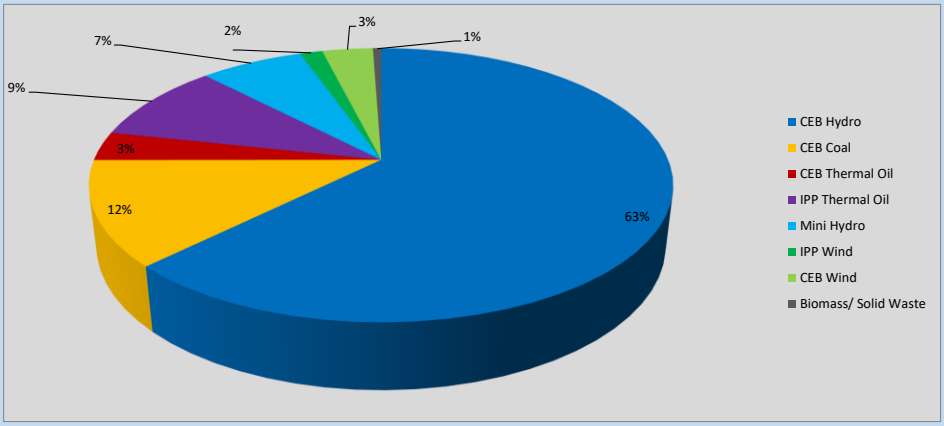


Table 06

CEB Hydro	1368	MW
CEB Coal	270	MW
CEB Thermal Oil	75	MW
IPP Thermal Oil	205	MW
Mini Hydro (Telemetered)	149	MW
IPP Wind	32.6	MW
CEB Wind	73.4	MW
Biomass/ Solid Waste	12	MW

Recorded Peak Demand Data

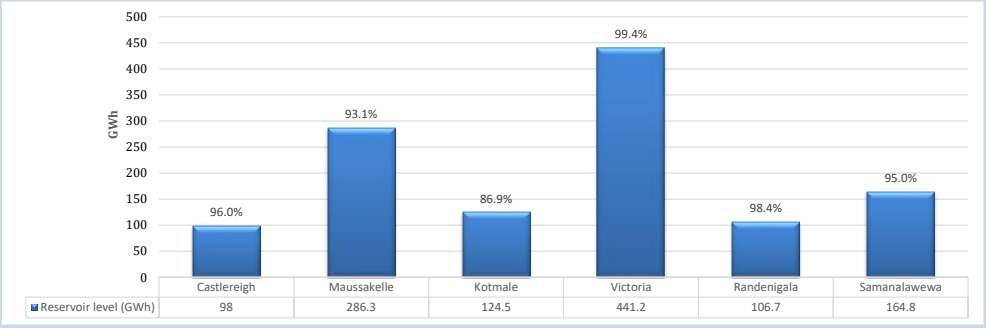
Table 07

Night Peak*	2,185	MW
Day Peak Maximum Demand	1,933	MW
Day Peak Minimum Demand	1,671	MW
Off Peak Minimum Demand	1,180	MW

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

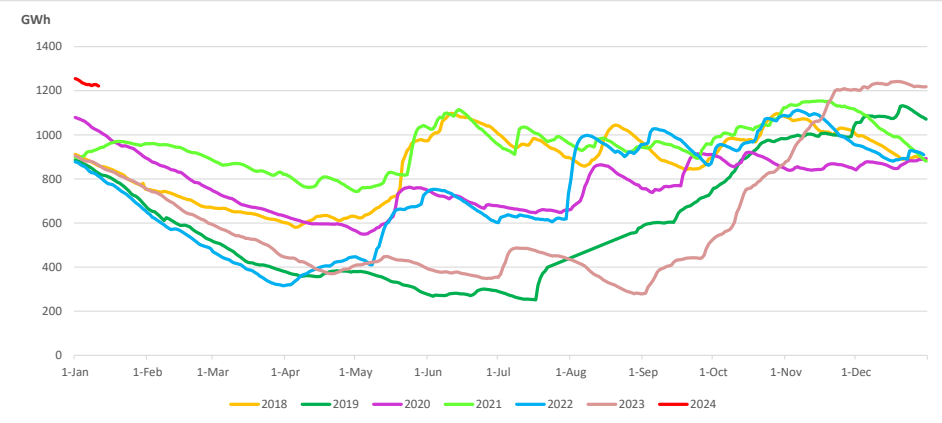
Reservoir Levels -

as at 06.00 Hr on January 12, 2024

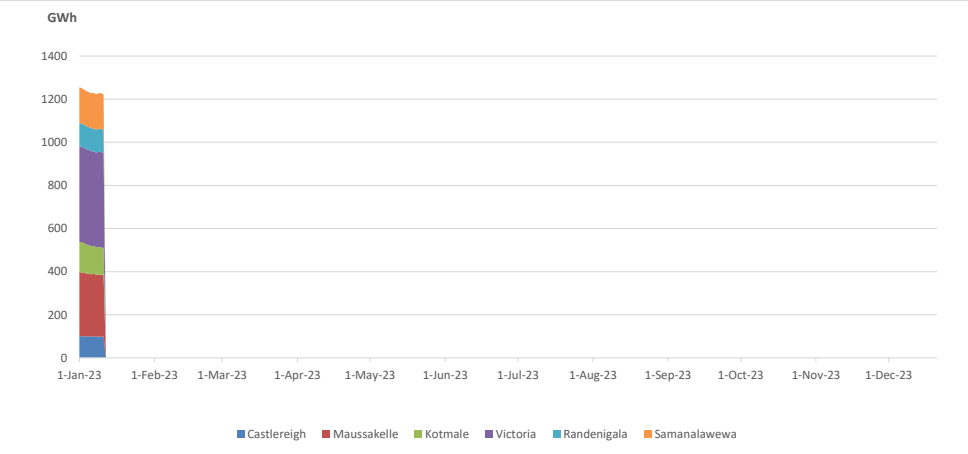


Total Reservoir Level 1221.5 GWh
% of Total capacity 95.5%

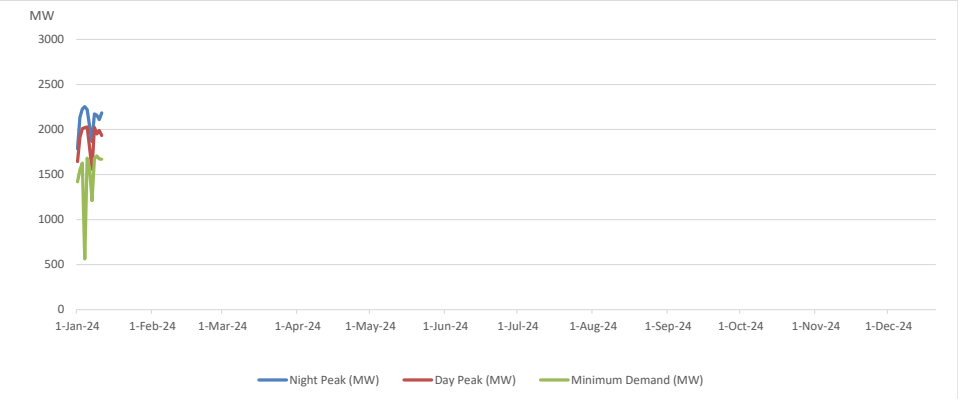
11. Comparison of Total Reservoir Storage Levels with Past Years



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

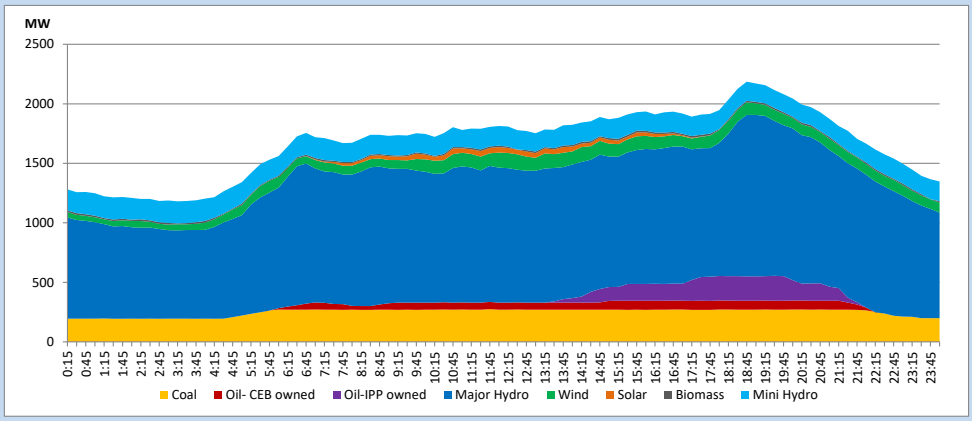


13. Variation of Demand during the current year



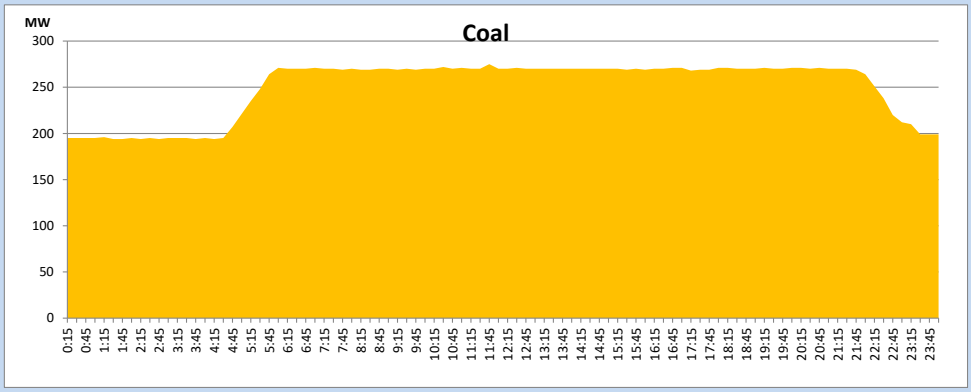
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve January 11, 2024

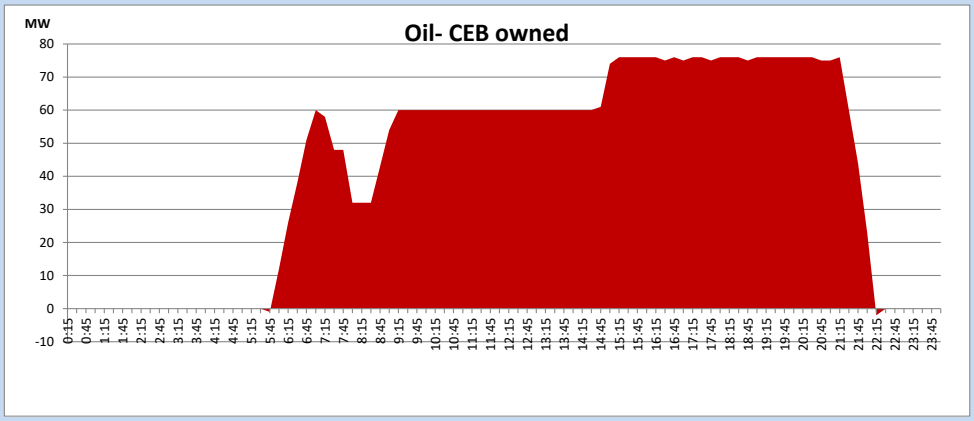


Solar and wind data is based on Telemetered Power Stations only

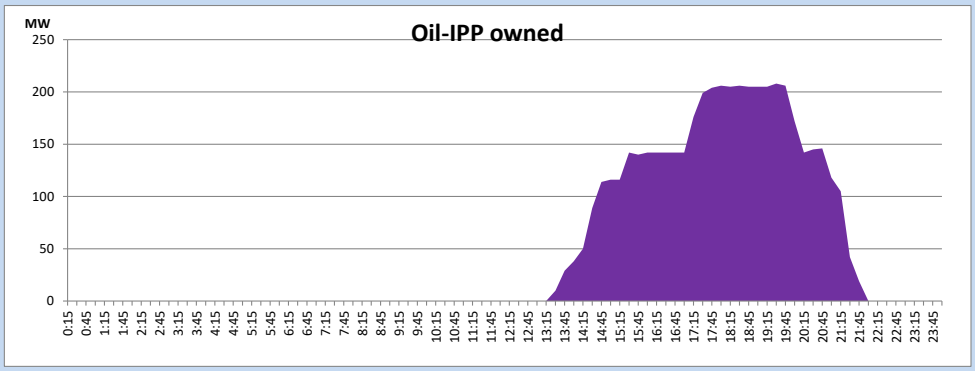
Coal Generation during January 11, 2024



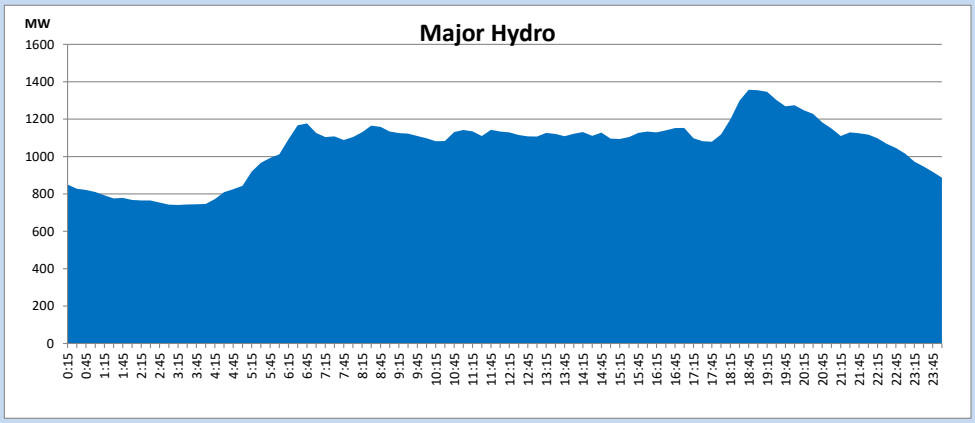
CEB Oil Plant Generation during **January 11, 2024**



IPP Oil Plant Generation during **January 11, 2024**

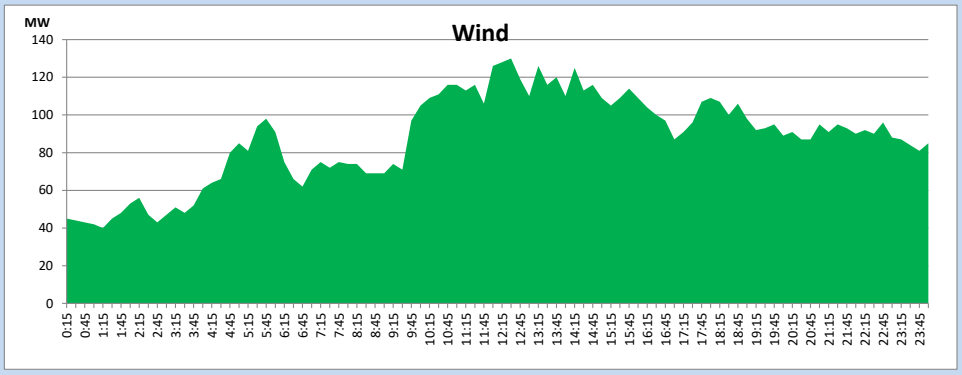


Major Hydro Generation during **January 11, 2024**



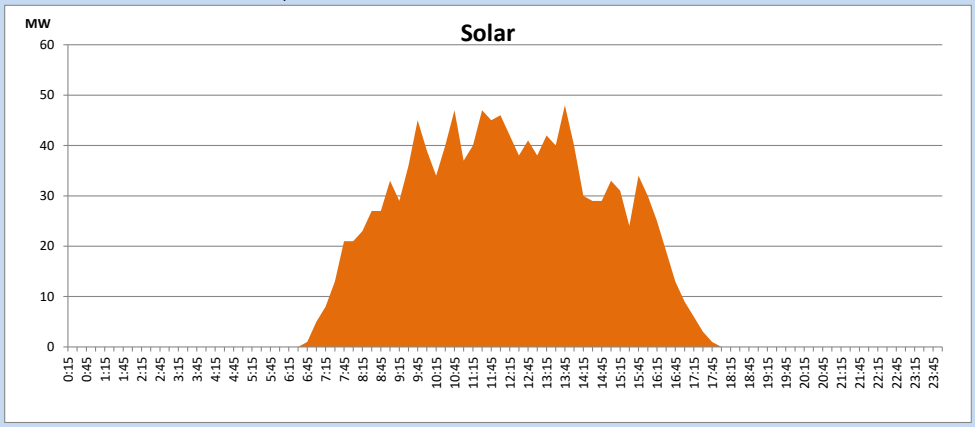
Wind Generation during January 11, 2024

Based on Telemetered Power Stations only

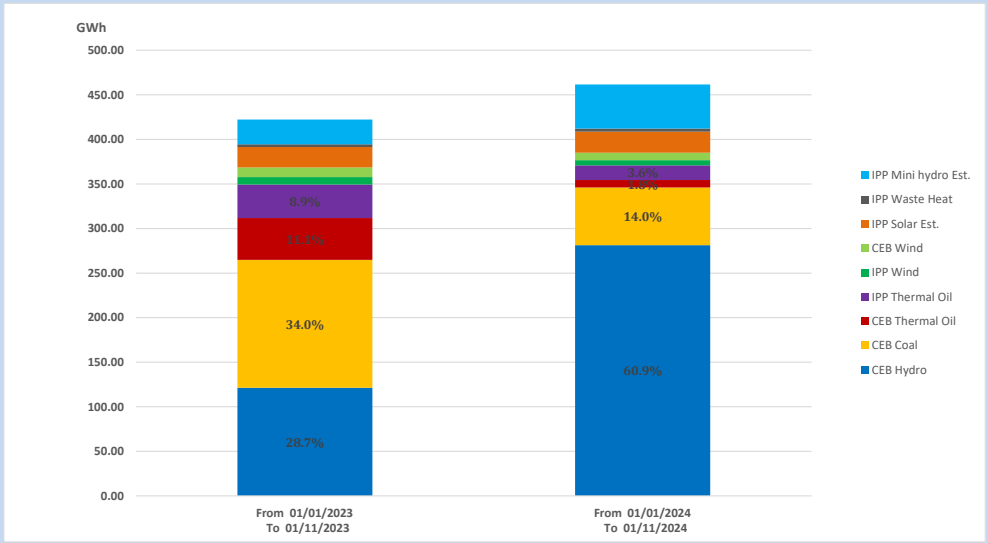


Solar Generation during January 11, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 01/11/2023	**422 GWh**
From 01/01/2024 To 01/11/2024	**462 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 11, 2024

1) Randeniya switchyard (Uma Oya) 132kV BB 01, BB 02 and BC energized for the first time for soak test at 16:31hrs
2) Randenigala reservoir spilling started at 16:35hrs and stopped at 19:04hrs
3) Rantambe pond spilling continues to the present hour.