

Generation and Reservoirs Statistics

January 28, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

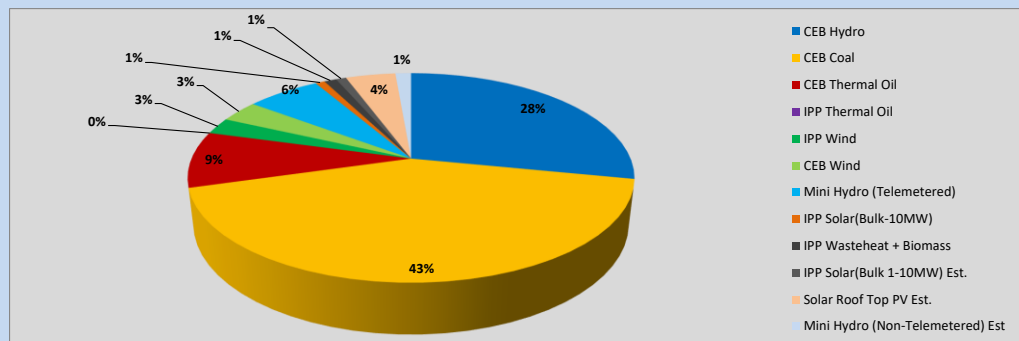


Table 01

	Generation (MWh)
CEB Hydro	10,748
CEB Coal	16,244
CEB Thermal Oil	3,328
IPP Thermal Oil	-
IPP Wind	979
CEB Wind	1,294
Mini Hydro (Telemetered)	2,434
IPP Solar (Bulk)	309
IPP Waste heat + Biomass	405
Total Generation (Excluding estimated figures)	35,741
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	519
* Estimated IPP Solar PV (Bulk 1-10MW)	338
* Estimated Solar Roof Top PV	1650
Total Generation (Including estimated figures)	38,248

* 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	590	50.78%
CEB Coal	266	22.91%
CEB Thermal Oil	47	4.02%
IPP Thermal	43	3.67%
SPP Wind	15	1.25%
CEB Wind	19	1.65%
Mini Hydro *	110	9.45%
IPP Solar *	63	5.42%
IPP Waste heat + BMP	10	0.86%
Total	1,161	

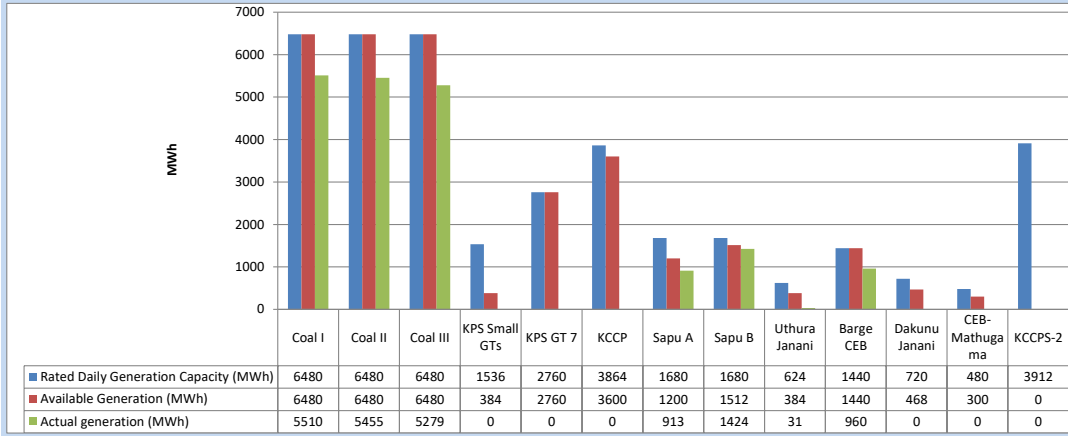
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	590	50.78%
CEB Coal	266	22.91%
CEB Thermal Oil	47	4.02%
IPP Thermal	43	3.67%
SPP Wind	15	1.25%
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Mini Hydro *	110	9.45%
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Total	1,161	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

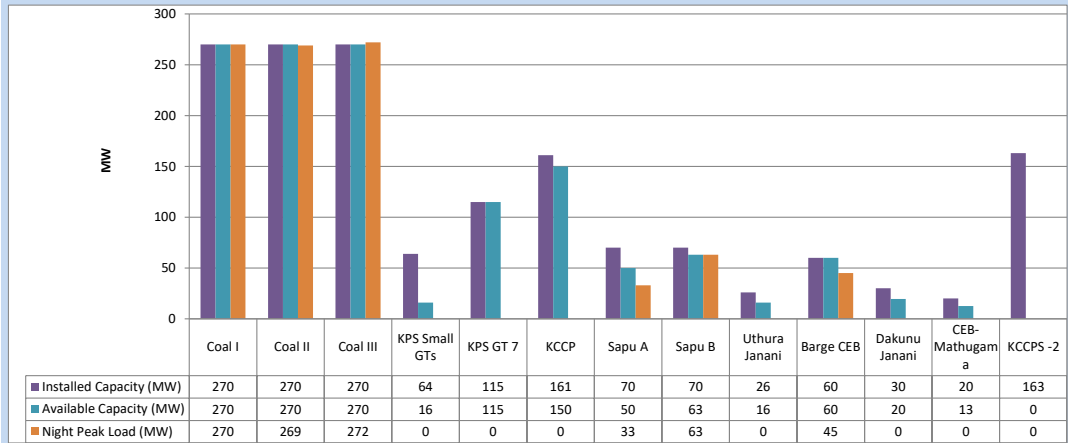
January 28, 2024



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

January 29, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

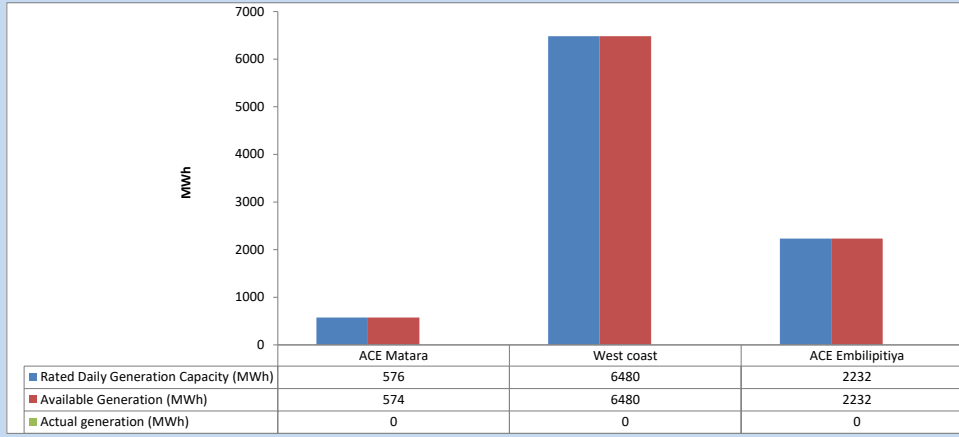


Plant availability is recorded at 6.00 am on

January 29, 2024

5. IPP owned Thermal Plant Dispatch

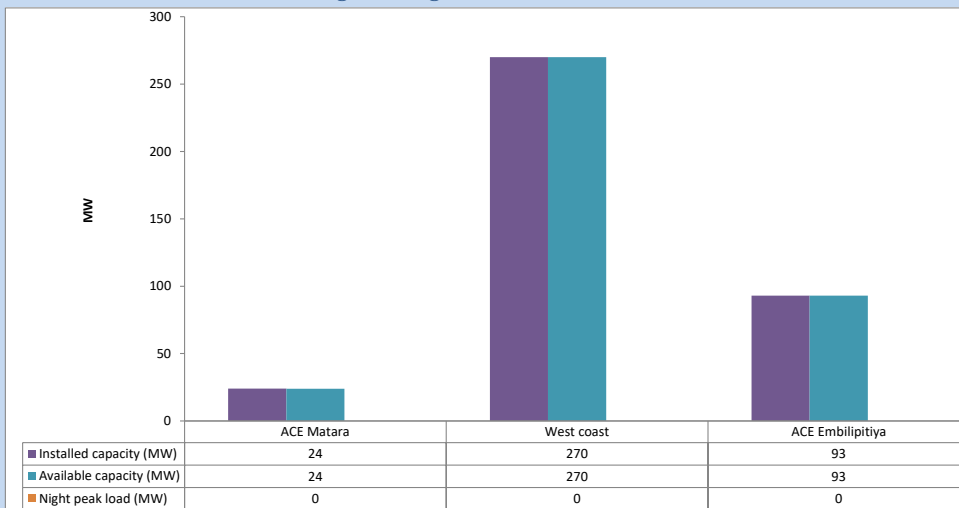
January 28, 2024



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

January 29, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

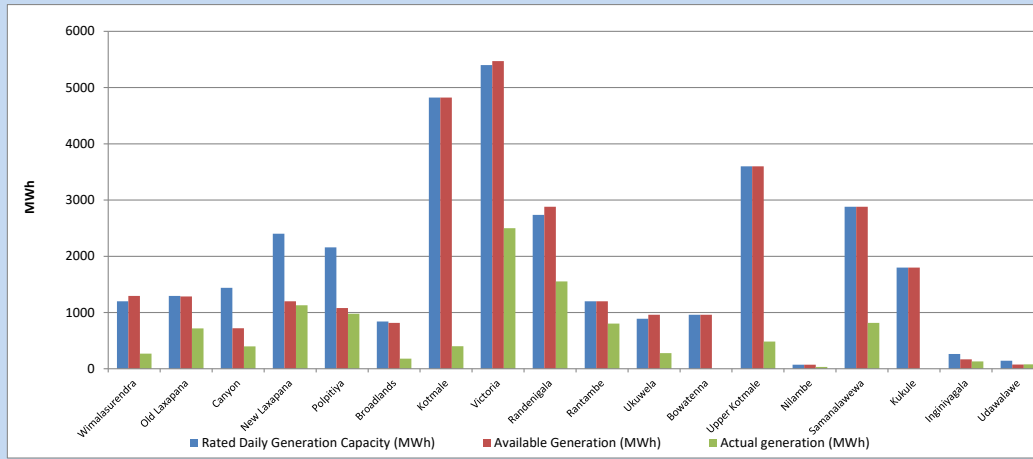


Plant availability is recorded at 6.00 am on

January 29, 2024

7. Major Hydro Plant Dispatch

January 28, 2024

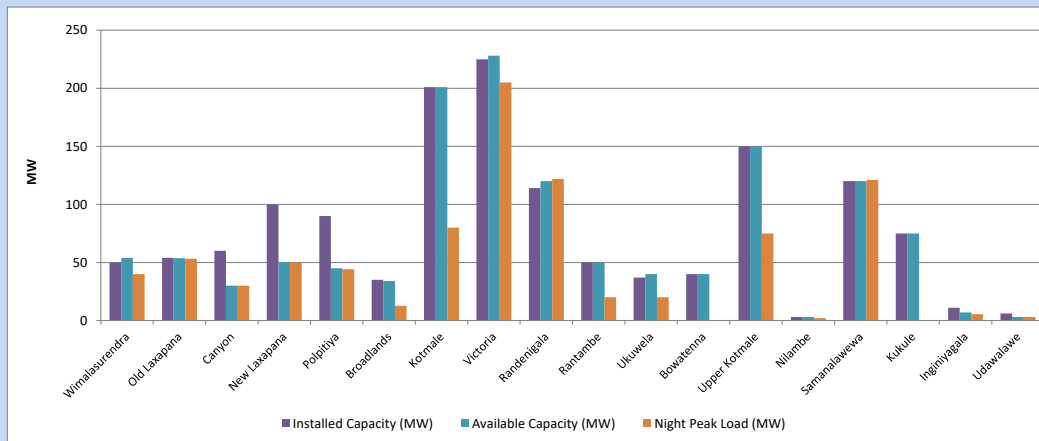


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

January 29, 2024

8. Major Hydro Plant Loading at Night Peak

January 28, 2024



Plant availability is recorded at 6.00 am on
Broadlands power plant is operating in the Commissioning Stage

January 29, 2024

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	268
Old Laxapana	54	54	53	718
Canyon	60	30	30	399
New Laxapana	100	50	50	1,130
Polpitiya	90	45	44	980
Broadlands	35	34	13	181
Kotmale	201	201	80	400
Victoria	225	228	205	2,500
Randenigala	114	120	122	1,554
Rantambe	50	50	20	802
Ukuwela	37	40	20	278
Bowatenna	40	40	0	0
Upper Kotmale	150	150	75	484
Nilambe	3	3	2	31
Samanalawewa	120	120	121	817
Kukule	75	75	0	0
Inginiyagala	11	7	5	129
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	270	5,510
Puttalam Coal II	270	270	269	5,455
Puttalam Coal III	270	270	272	5,279
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	50	33	913
Sapugaskanda B	70	63	63	1,424
Uthura Janani	26	16	0	31
Barge CEB	60	60	45	960
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	3,003	2,027	35,742

Plant availability is the availability recorded at 6 am on

January 29, 2024

10. Contribution to the Night Peak in MW

January 28, 2024

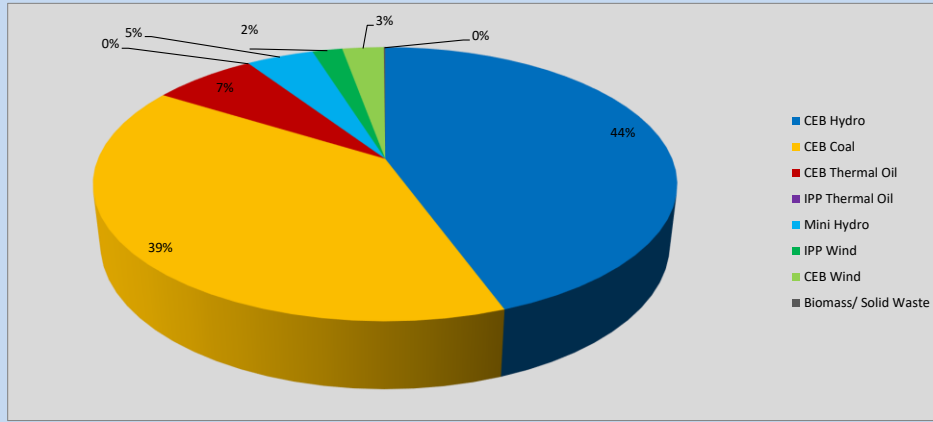


Table 06

CEB Hydro	914	MW
CEB Coal	811	MW
CEB Thermal Oil	141	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	92	MW
IPP Wind	40.9	MW
CEB Wind	56.5	MW
Biomass/ Solid Waste	2	MW

Recorded Peak Demand Data

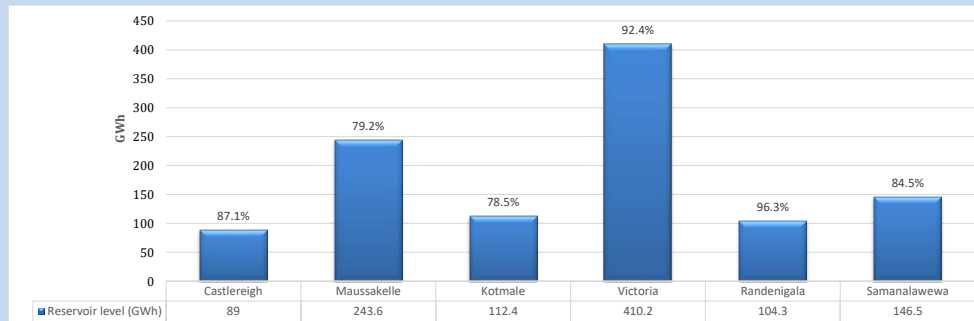
Table 07

Night Peak*	2,058	MW
Day Peak Maximum Demand	1,603	MW
Day Peak Minimum Demand	1,260	MW
Off Peak Minimum Demand	1,265	MW

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

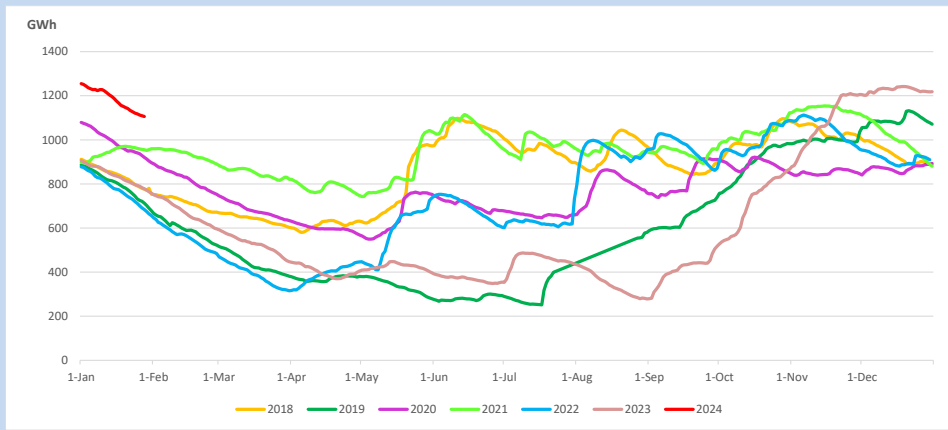
Reservoir Levels -

as at 06.00 Hr on January 29, 2024

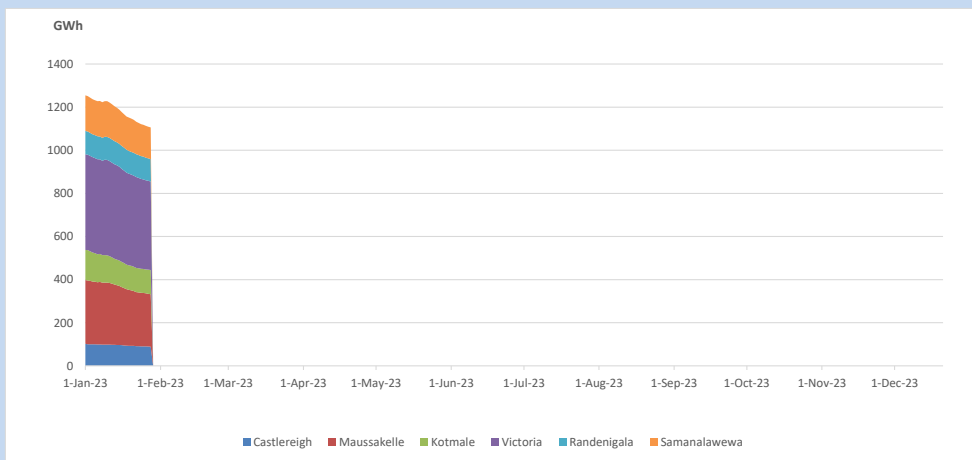


Total Reservoir Level 1106 GWh
% of Total capacity 86.5%

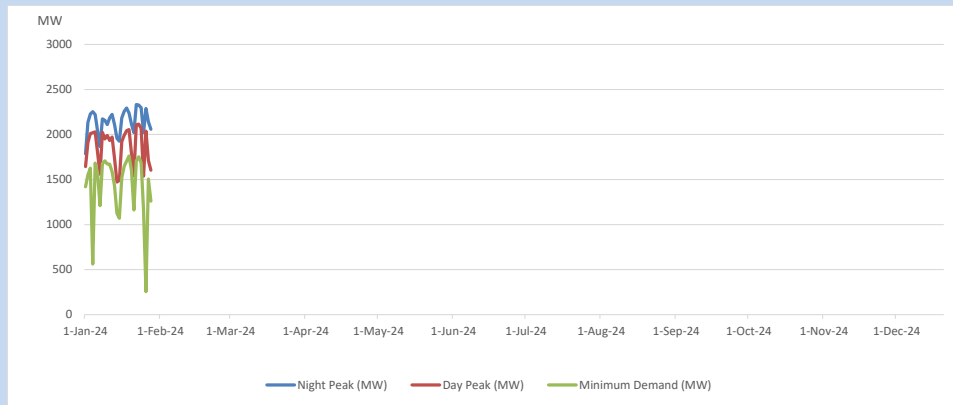
11. Comparison of Total Reservoir Storage Levels with Past Years



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



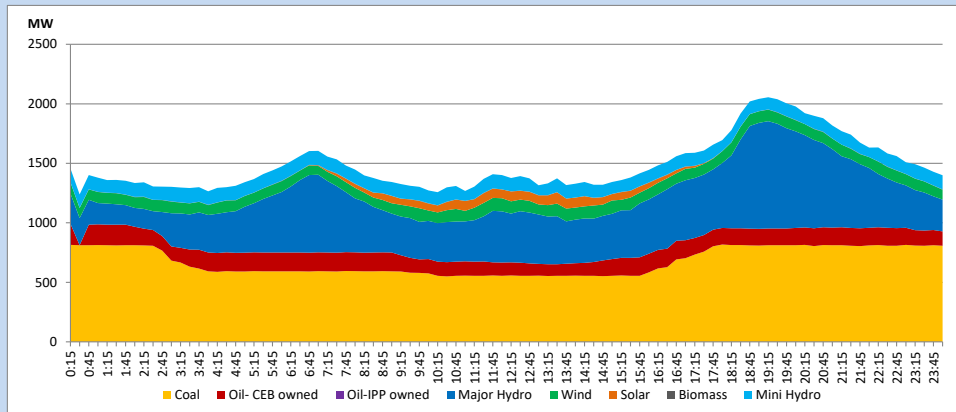
13. Variation of Demand during the current year



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

14. Daily Load Curve

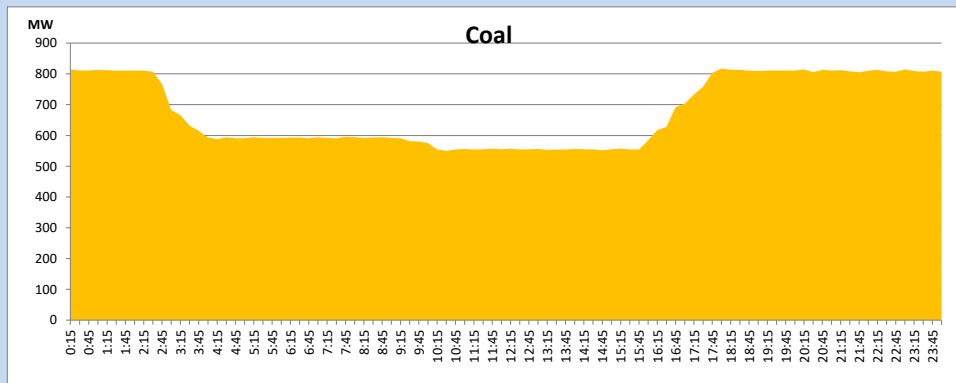
January 28, 2024



Solar and wind data is based on Telemetered Power Stations only

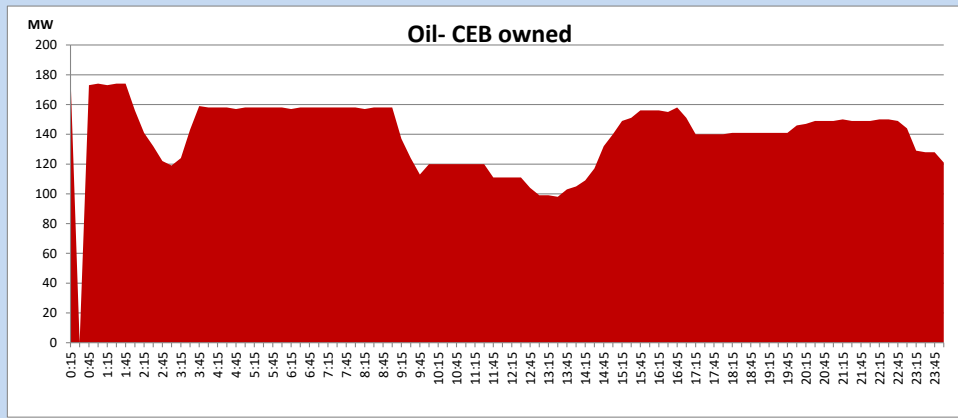
Coal Generation during

January 28, 2024



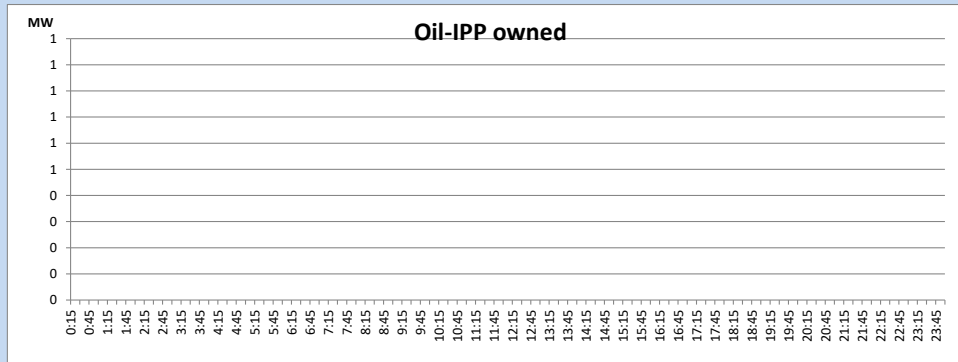
CEB Oil Plant Generation during

January 28, 2024



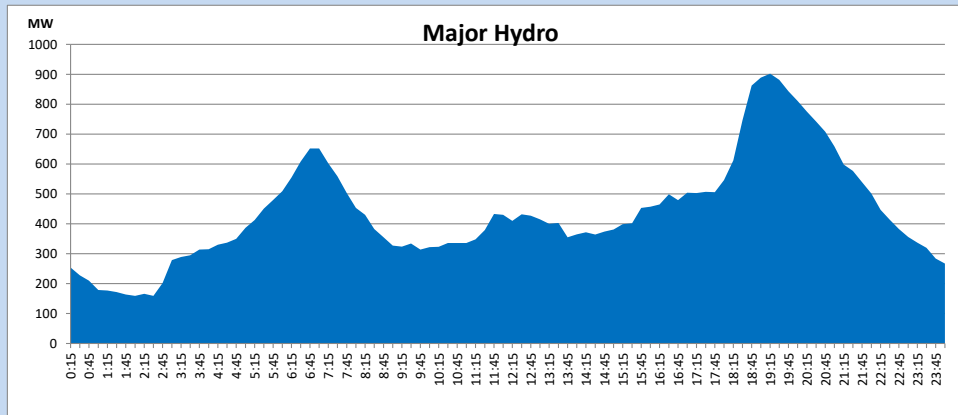
IPP Oil Plant Generation during

January 28, 2024



Major Hydro Generation during

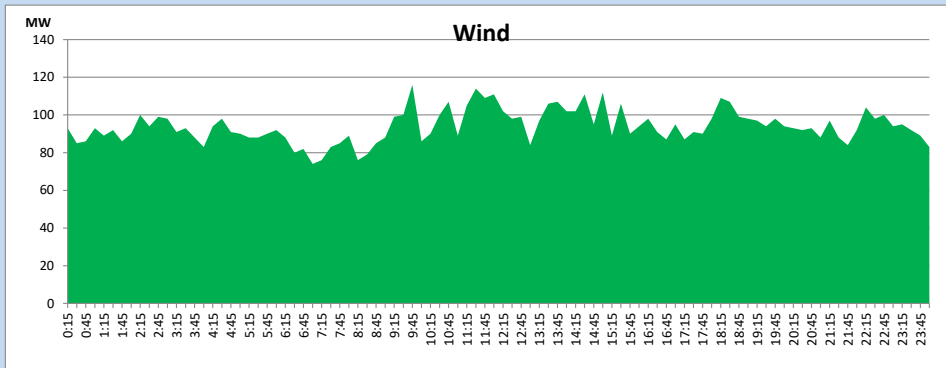
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Wind Generation during

January 28, 2024

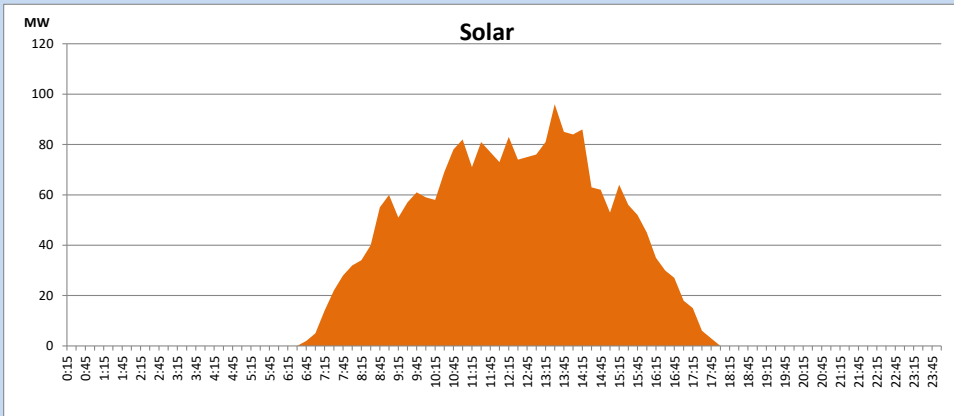
Based on Telemetered Power Stations only



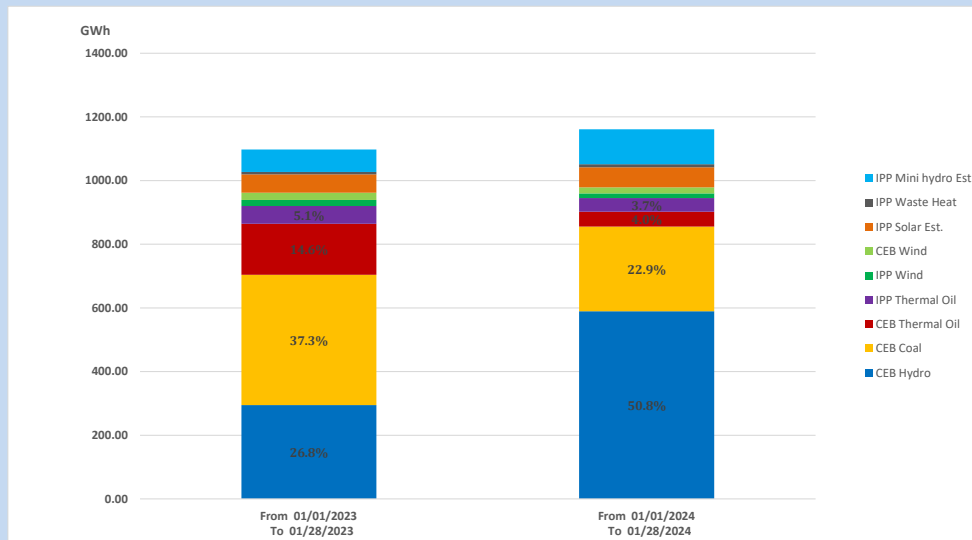
Solar Generation during

January 28, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 * From 01/01/2023 To 01/28/2023 1097 GWh
 From 01/01/2024 To 01/28/2024 1161 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 28, 2024

- 1) New Chillaw – Veyangoda 220kV cct 02 (which tripped at 02:34hrs) was restored at 15:39hrs. All units at Lakvijaya PS were kept manually de-loaded upto 555 MW(Net. total) when this cct was unavailable, considering system reliability
- 2) Biyagama 220/132/33kV T/F 01 tripped at 21:21hrs due to the operation of REF protection.The T/F is yet to be restored.