

Generation and Reservoirs Statistics

February 17, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

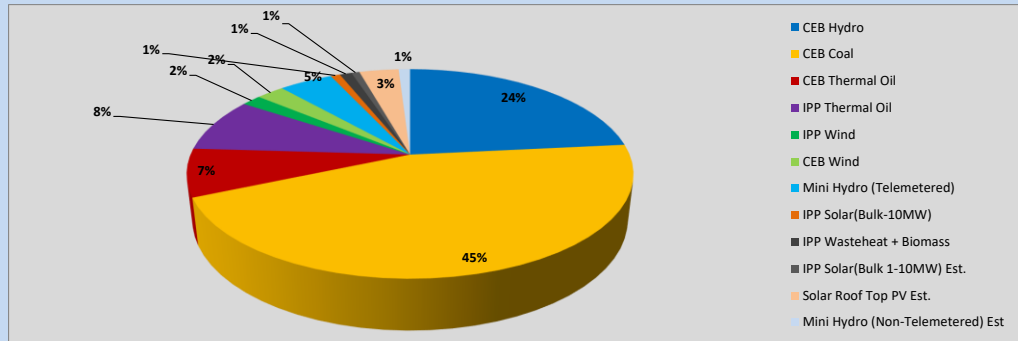


Table 01

	Generation (MWh)
CEB Hydro	10,112
CEB Coal	19,480
CEB Thermal Oil	3,191
IPP Thermal Oil	3,602
IPP Wind	736
CEB Wind	1,044
Mini Hydro (Telemetered)	2,004
IPP Solar (Bulk)	354
IPP Waste heat + Biomass	445
Total Generation (Excluding estimated figures)	40,968
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	427
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1470
Total Generation (Including estimated figures)	43,169

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1644
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya)	386.9
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	293
Rooftop Solar (LT Bulk)	272
Rooftop Solar (HT Bulk)	74

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	186	25.21%
CEB Coal	326	44.11%
CEB Thermal Oil	55	7.46%
IPP Thermal	50	6.82%
SPP Wind	12	1.66%
CEB Wind	15	2.03%
Mini Hydro *	50	6.75%
IPP Solar *	37	4.96%
IPP Waste heat + BMP	7	1.01%
Total	739	

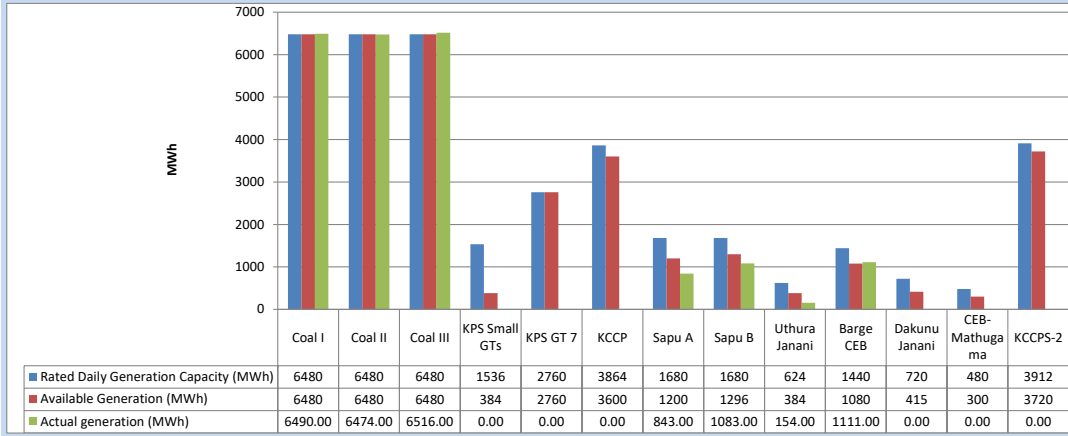
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	818	40.17%
CEB Coal	650	31.93%
CEB Thermal Oil	113	5.53%
IPP Thermal	96	4.72%
SPP Wind	29	1.41%
CEB Wind	37	1.81%
Mini Hydro *	169	8.30%
IPP Solar *	106	5.21%
IPP Waste heat	19	0.91%
Total	2,035	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

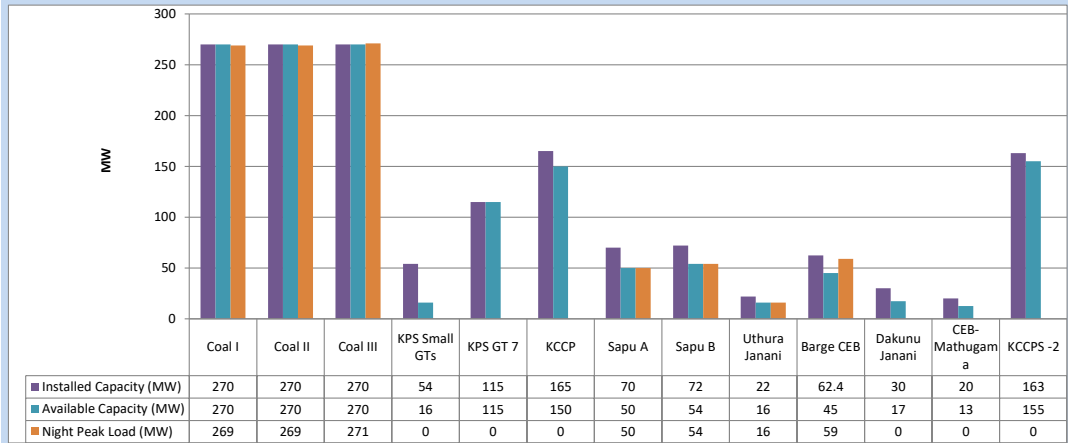
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Available Generation is estimated based on plant availability at 6.00am on

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4. CEB owned Thermal Plant Loading at the Night Peak

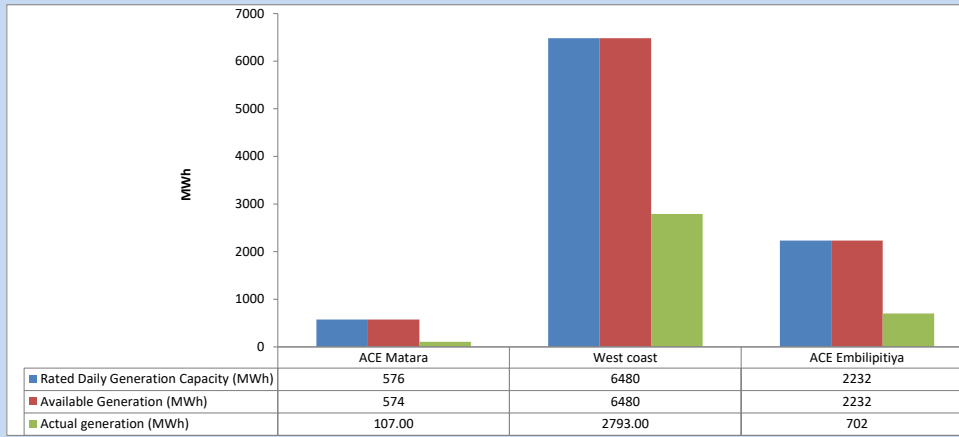


Plant availability is recorded at 6.00 am on

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5. IPP owned Thermal Plant Dispatch

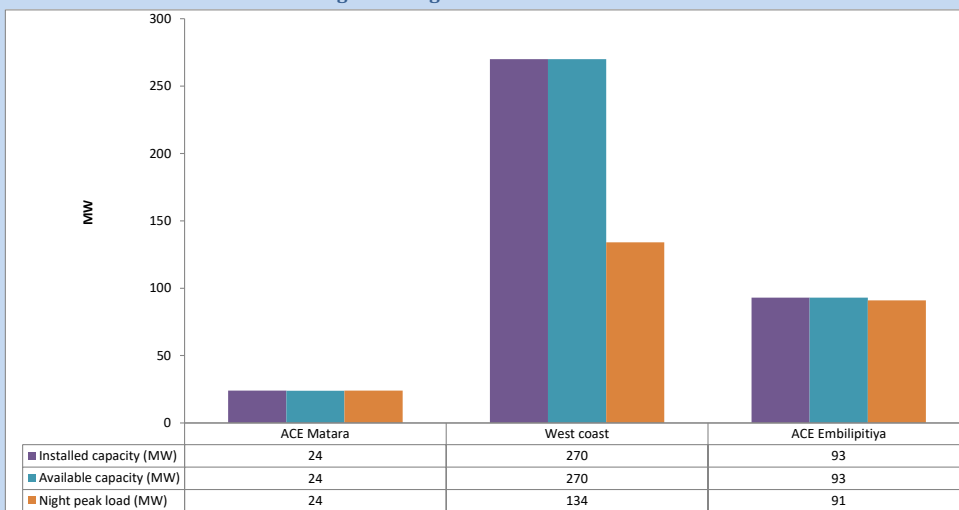
February 17, 2024



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

February 18, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

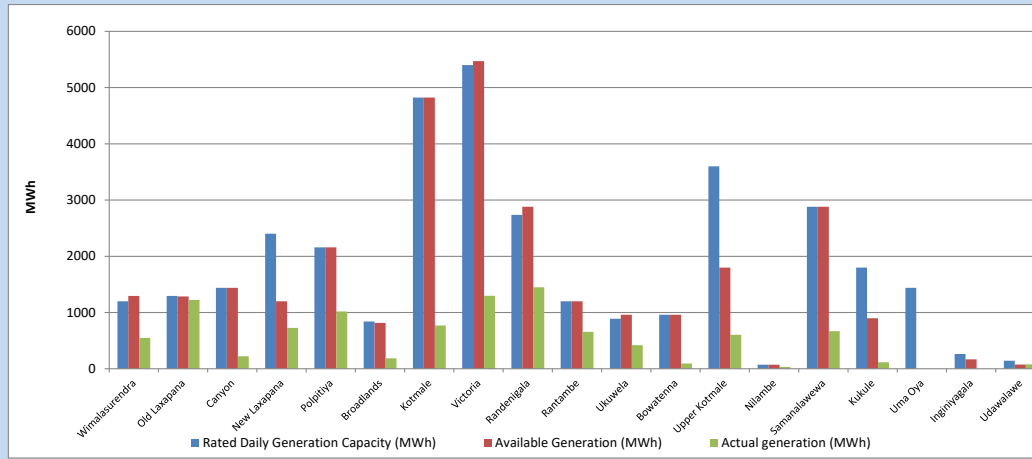


Plant availability is recorded at 6.00 am on

February 18, 2024

7. Major Hydro Plant Dispatch

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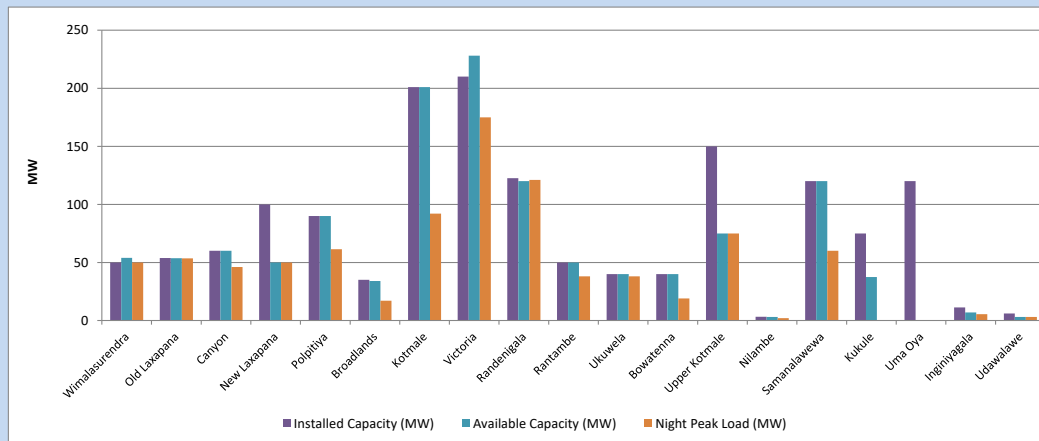


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

February 18, 2024

8. Major Hydro Plant Loading at Night Peak

February 17, 2024



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

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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	548
Old Laxapana	54	54	54	1,223
Canyon	60	60	46	224
New Laxapana	100	50	50	726
Polpitiya	90	90	61	1,020
Broadlands	35	34	17	186
Kotmale	201	201	92	770
Victoria	210	228	175	1,299
Randenigala	123	120	121	1,449
Rantambe	50	50	38	655
Ukuwela	40	40	38	420
Bowatenna	40	40	19	94
Upper Kotmale	150	75	75	603
Nilambe	3	3	2	33
Samanalawewa	120	120	60	668
Kukule	75	38	0	116
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	0
Udawalawe	6	3	3	78
Puttalam Coal I	270	270	269	6,490
Puttalam Coal II	270	270	269	6,474
Puttalam Coal III	270	270	271	6,516
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	50	50	843
Sapugaskanda B	72	54	54	1,083
Uthura Janani	22	16	16	154
Barge CEB	62	45	59	1,111
CEB-Hambantota	30	17	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	24	107
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	134	2,793
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	91	702
Total	3,594	3,094	2,313	40,968

Note-

Plant availability is the availability recorded at 6 am on

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Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

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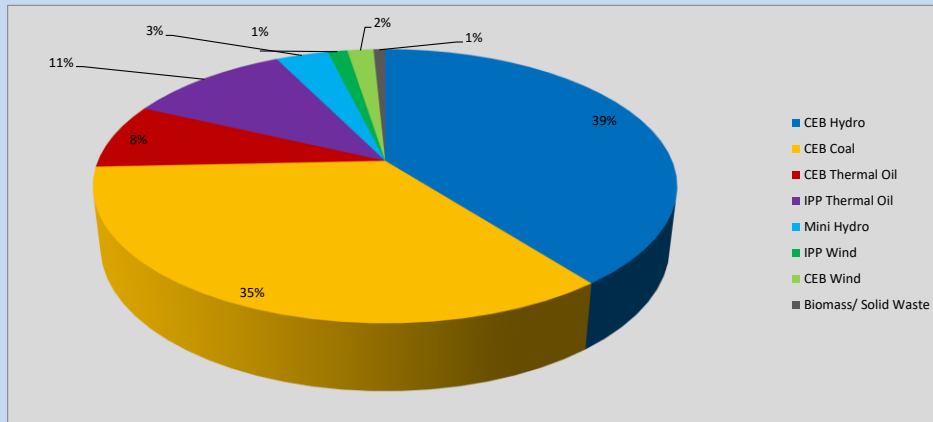


Table 06

CEB Hydro	918	MW
CEB Coal	809	MW
CEB Thermal Oil	179	MW
IPP Thermal Oil	249	MW
Mini Hydro (Telemetered)	81	MW
IPP Wind	30.4	MW
CEB Wind	40.2	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

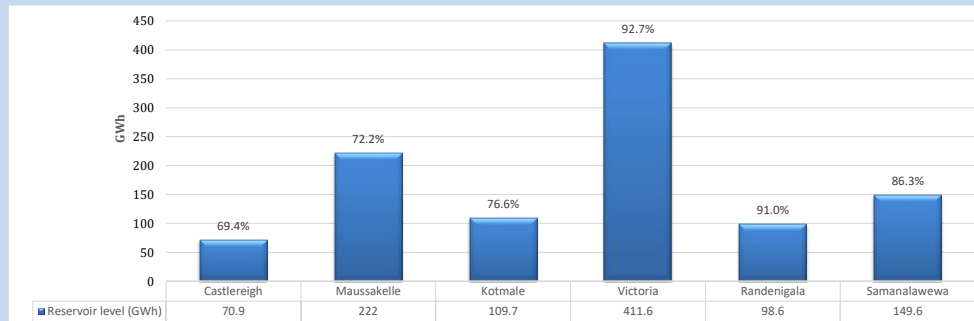
Table 07

Night Peak*	2,325	MW
Day Peak Maximum Demand	1,932	MW
Day Peak Minimum Demand	1,607	MW
Off Peak Minimum Demand	1,371	MW

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

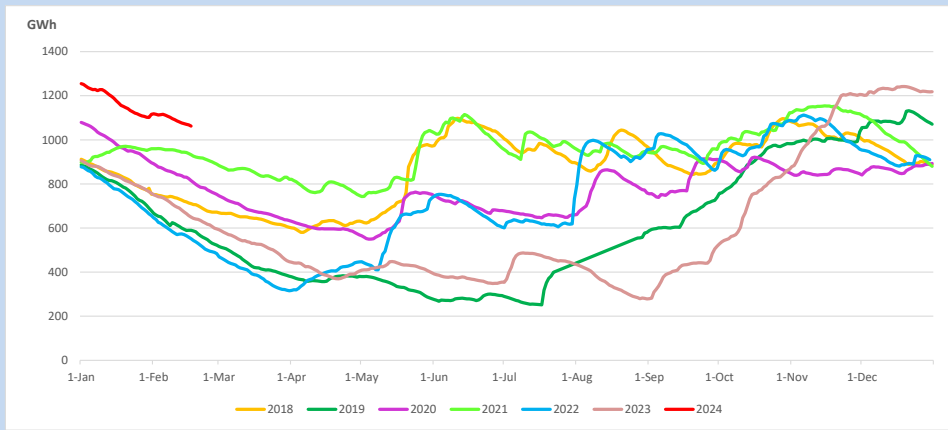
Reservoir Levels -

as at 06.00 Hr on February 18, 2024

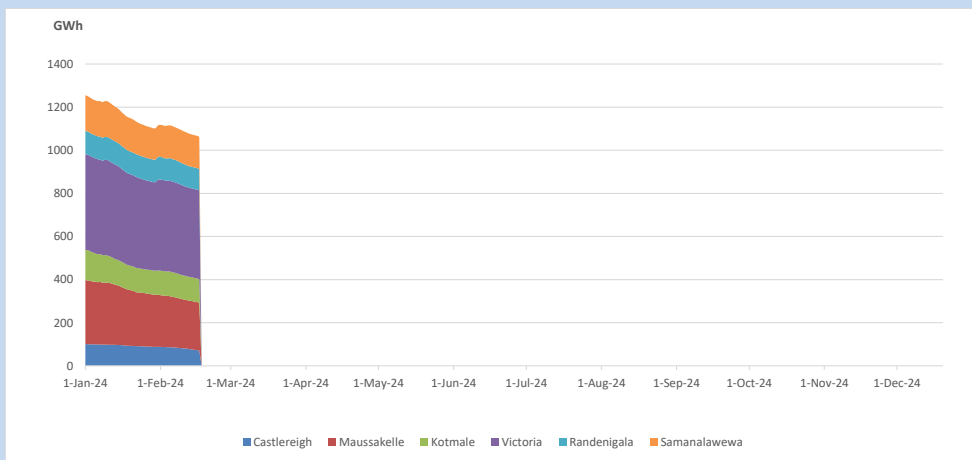


Total Reservoir Level 1062.4 GWh
% of Total capacity 83.1%

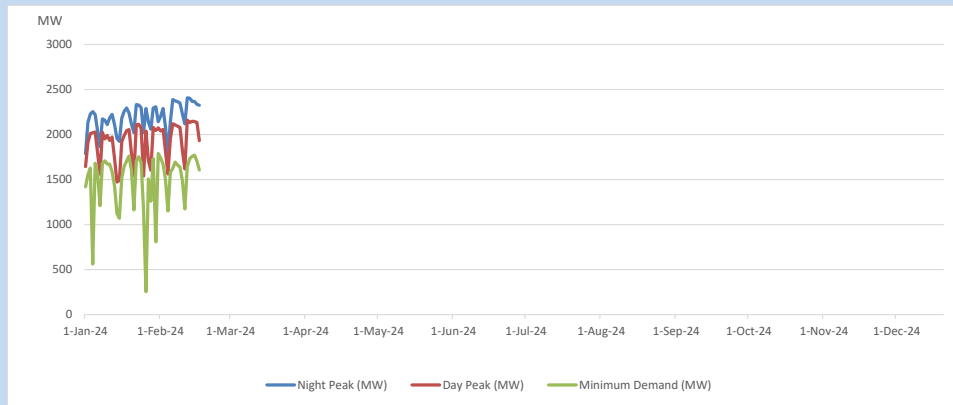
11. Comparison of Total Reservoir Storage Levels with Past Years



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



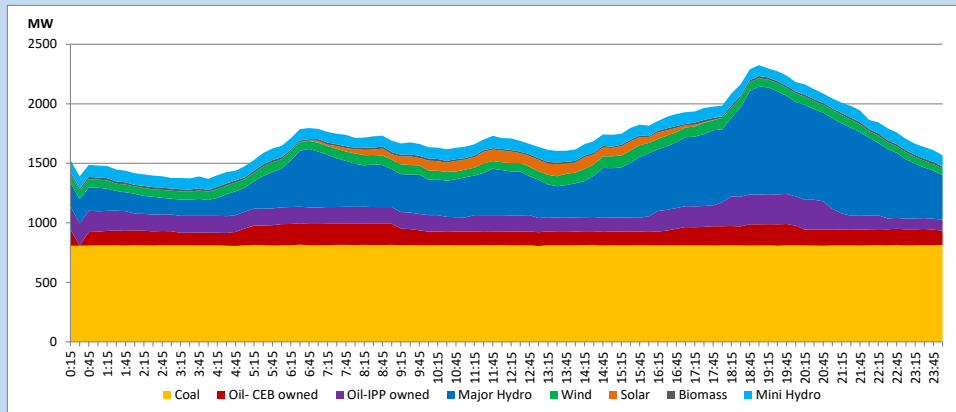
13. Variation of Demand during the current year



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

14. Daily Load Curve

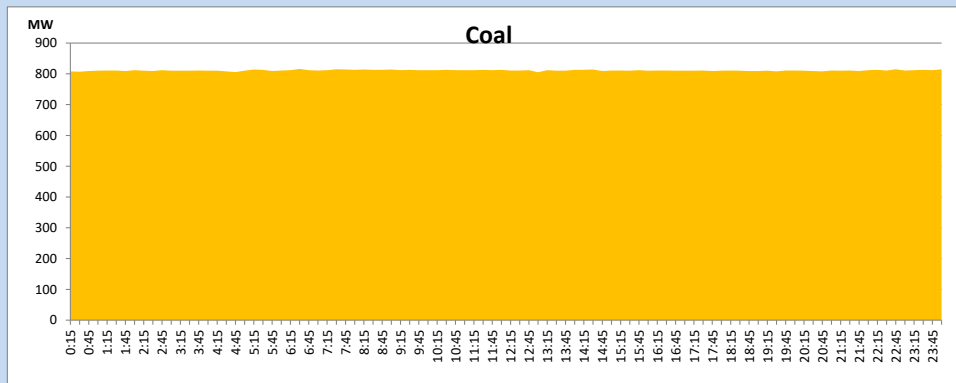
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Solar and wind data is based on Telemetered Power Stations only

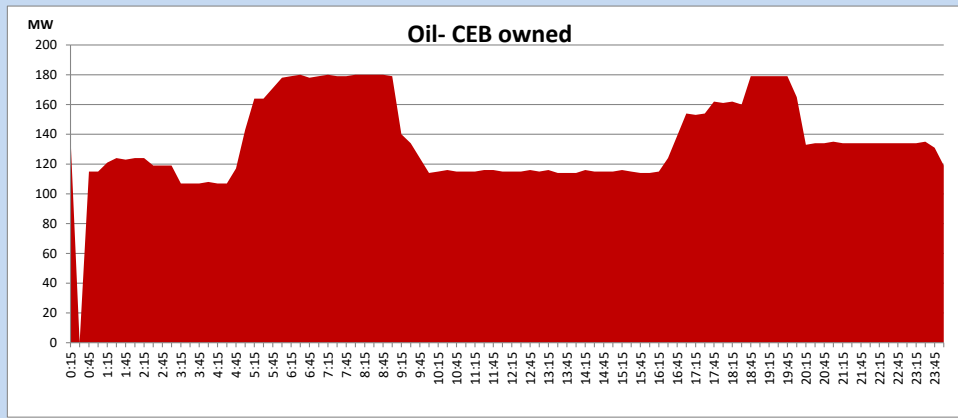
Coal Generation during

February 17, 2024



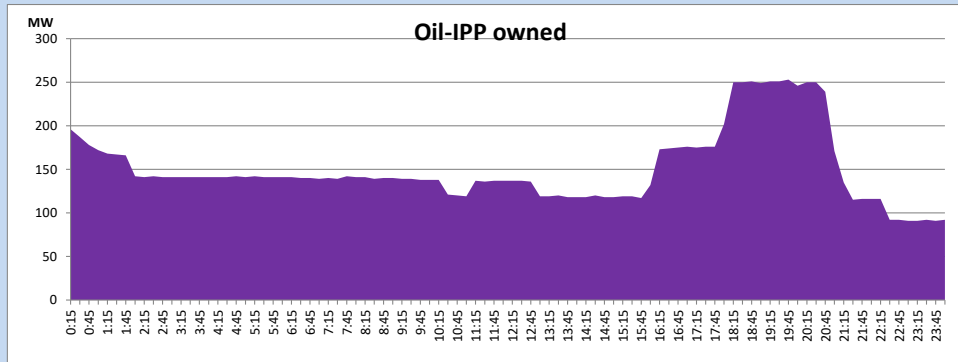
CEB Oil Plant Generation during

February 17, 2024



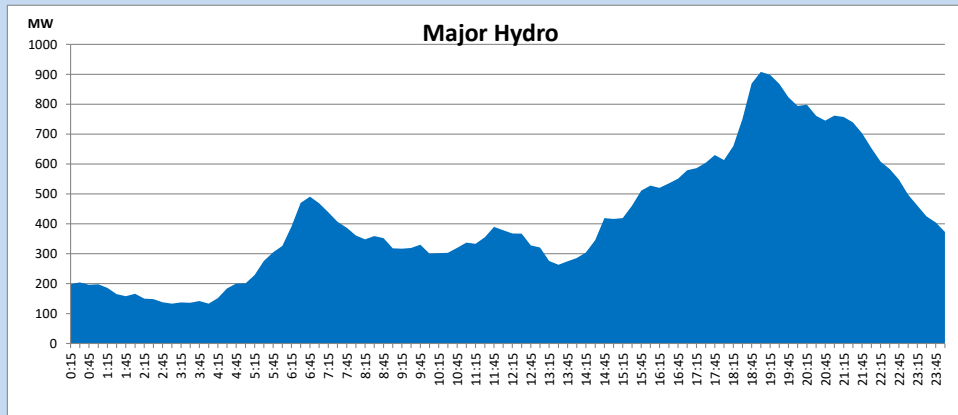
IPP Oil Plant Generation during

February 17, 2024



Major Hydro Generation during

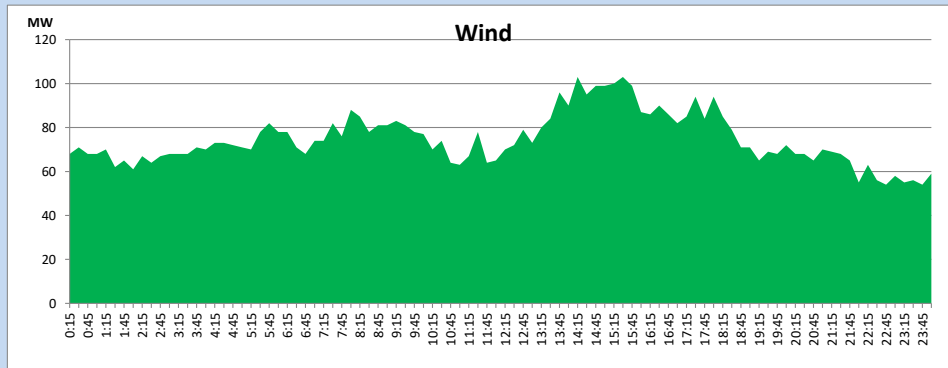
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Wind Generation during

February 17, 2024

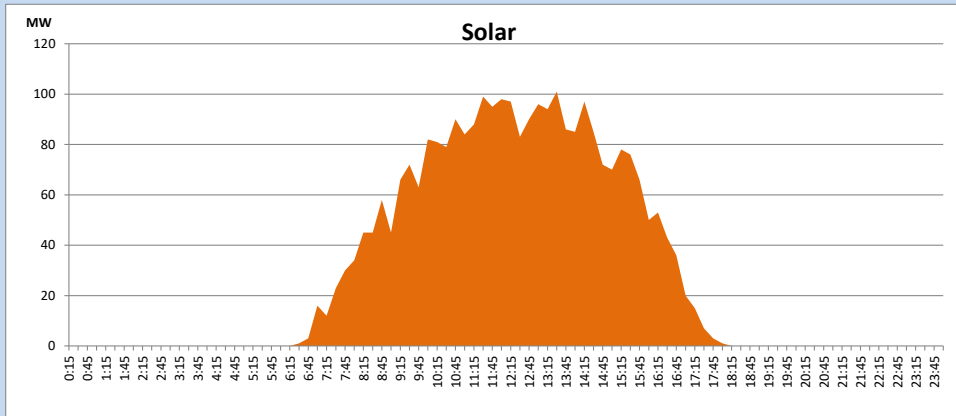
Based on Telemetered Power Stations only



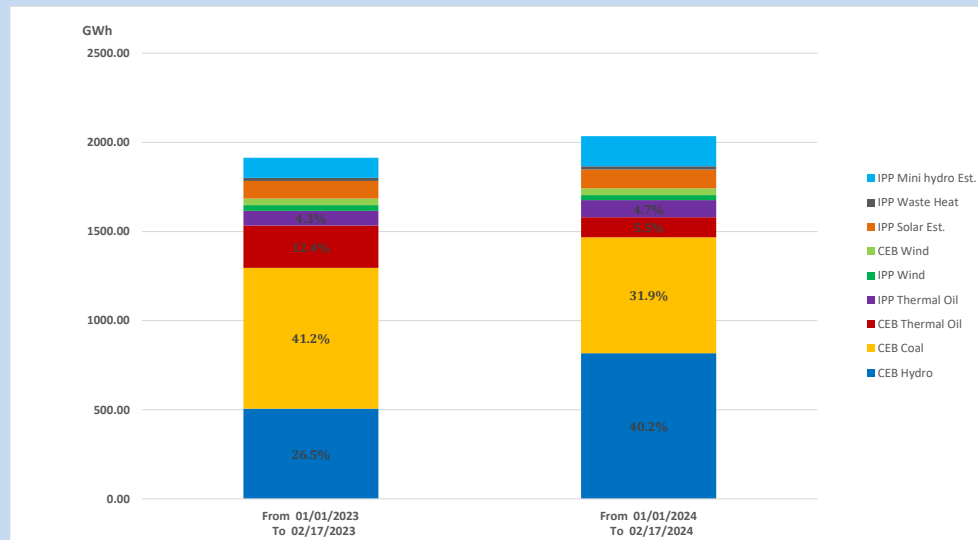
Solar Generation during

February 17, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 02/17/2023

1914 GWh

From 01/01/2024 To 02/17/2024

2035 GWh

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

Unserviced energy due to power cuts has been excluded in 2023

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

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Nil