

Generation and Reservoirs Statistics

March 9, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

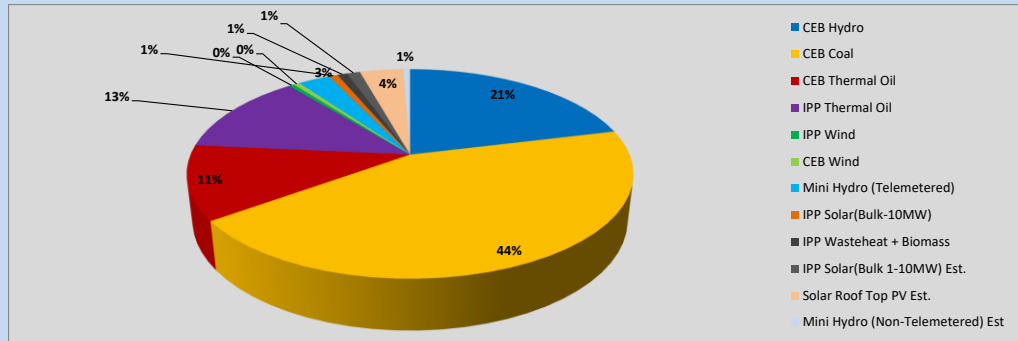


Table 01

	Generation (MWh)
CEB Hydro	9,393
CEB Coal	19,449
CEB Thermal Oil	5,085
IPP Thermal Oil	5,614
IPP Wind	200
CEB Wind	228
Mini Hydro (Telemetered)	1,235
IPP Solar (Bulk)	340
IPP Waste heat + Biomass	371
Total Generation (Excluding estimated figures)	41,915
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	263
* Estimated IPP Solar PV (Bulk 1-10MW)	506
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	44,354

* 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)	270
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 [Nov-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	94	22.40%
CEB Coal	174	41.54%
CEB Thermal Oil	60	14.33%
IPP Thermal	46	10.92%
SPP Wind	3	0.68%
CEB Wind	3	0.80%
Mini Hydro *	13	3.20%
IPP Solar *	22	5.31%
IPP Waste heat + BMP	3	0.81%
Total	418	

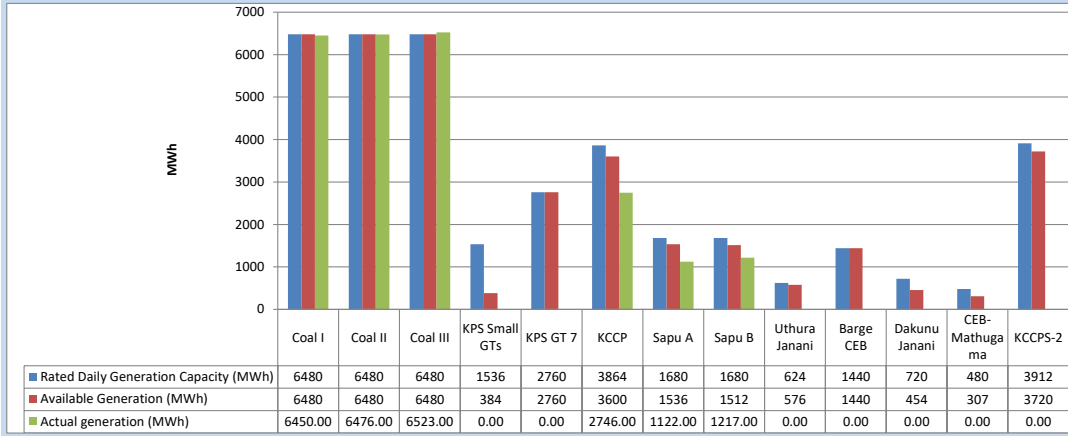
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,032	34.52%
CEB Coal	1,054	35.25%
CEB Thermal Oil	218	7.31%
IPP Thermal	214	7.17%
SPP Wind	39	1.30%
CEB Wind	47	1.59%
Mini Hydro *	204	6.83%
IPP Solar *	155	5.17%
IPP Waste heat	26	0.86%
Total	2,989	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

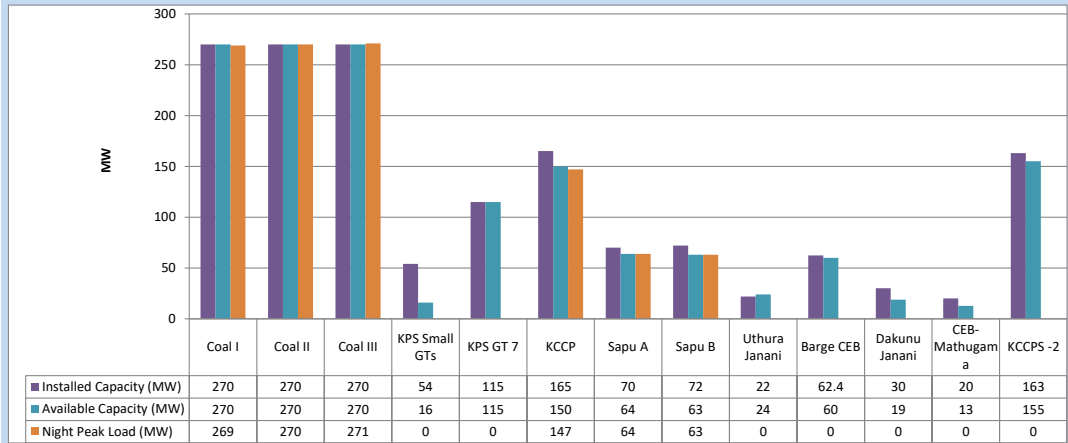
March 9, 2024



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

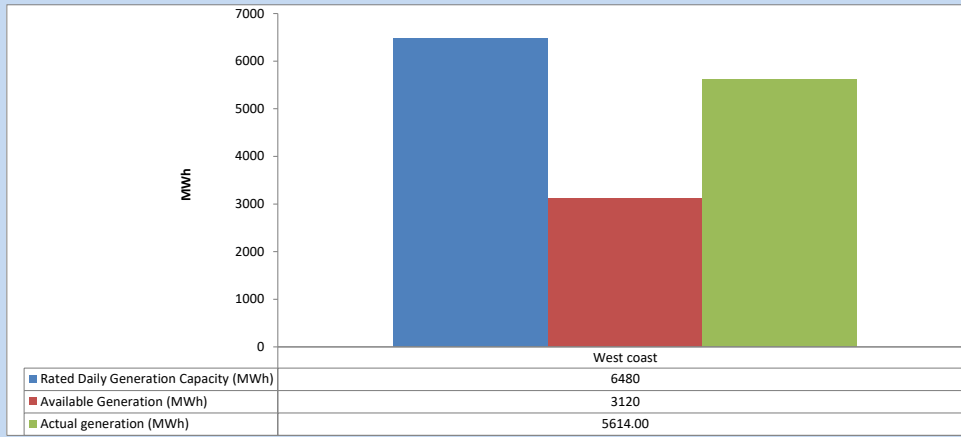


Plant availability is recorded at 6.00 am on

March 10, 2024

5. IPP owned Thermal Plant Dispatch

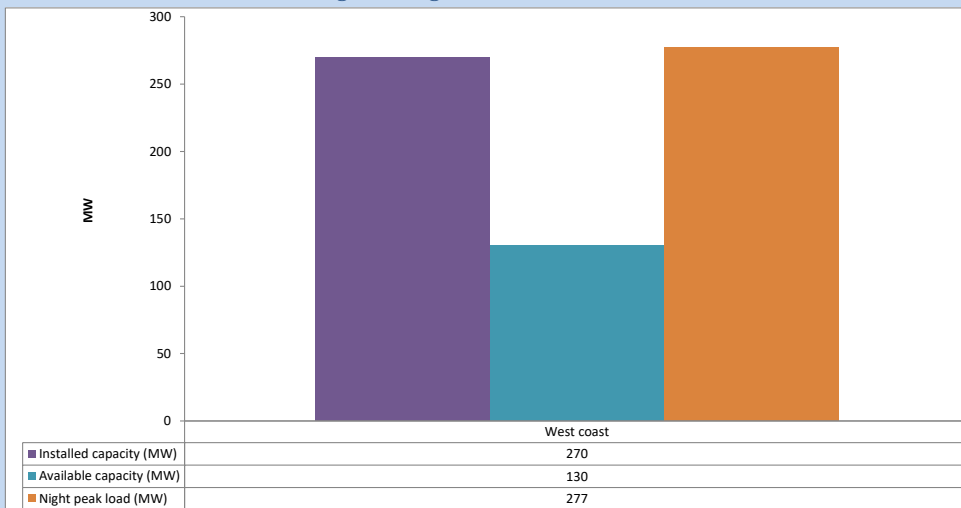
March 9, 2024



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

March 10, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

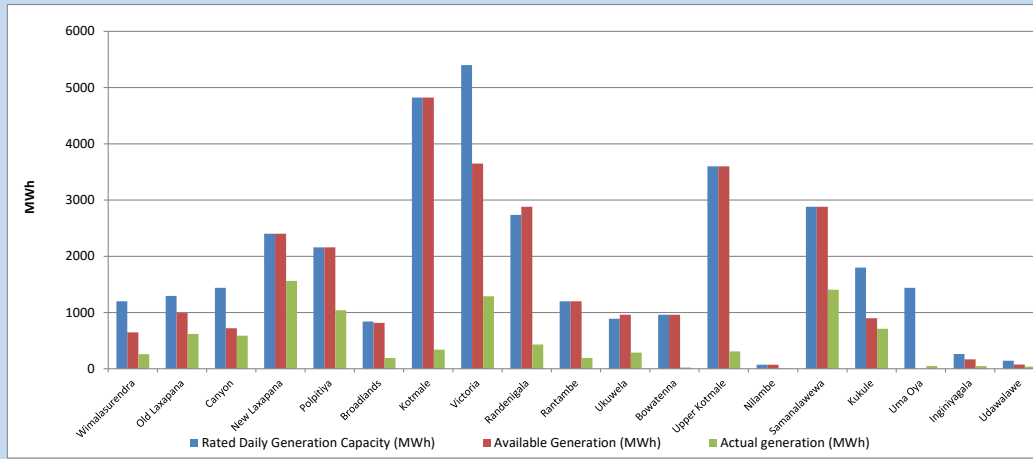


Plant availability is recorded at 6.00 am on

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7. Major Hydro Plant Dispatch

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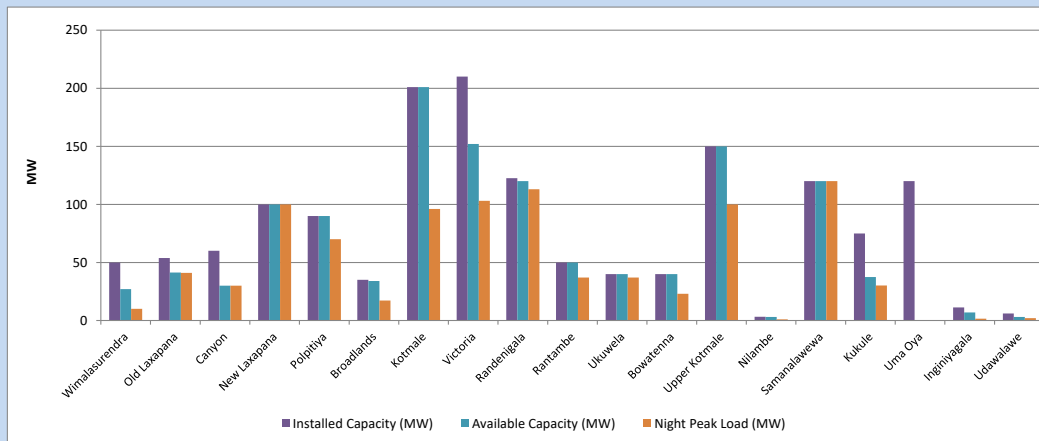


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

March 10, 2024

8. Major Hydro Plant Loading at Night Peak

March 9, 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	27	10	258
Old Laxapana	54	41	41	619
Canyon	60	30	30	587
New Laxapana	100	100	100	1,562
Polpitiya	90	90	70	1,040
Broadlands	35	34	17	193
Kotmale	201	201	96	340
Victoria	210	152	103	1,288
Randenigala	123	120	113	431
Rantambe	50	50	37	193
Ukuwela	40	40	37	287
Bowatenna	40	40	23	23
Upper Kotmale	150	150	100	310
Nilambe	3	3	1	8
Samanalawewa	120	120	120	1,407
Kukule	75	38	30	710
Uma Oya (Testing)	120	0	0	52
Inginiyagala	11	7	2	48
Udawalawe	6	3	2	38
Puttalam Coal I	270	270	269	6,450
Puttalam Coal II	270	270	270	6,476
Puttalam Coal III	270	270	271	6,523
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	147	2,746
Sapugaskanda A	70	64	64	1,122
Sapugaskanda B	72	63	63	1,217
Uthura Janani	22	24	0	0
Barge CEB	62	60	0	0
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	130	277	5,614
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,865	2,370	41,916

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

March 9, 2024

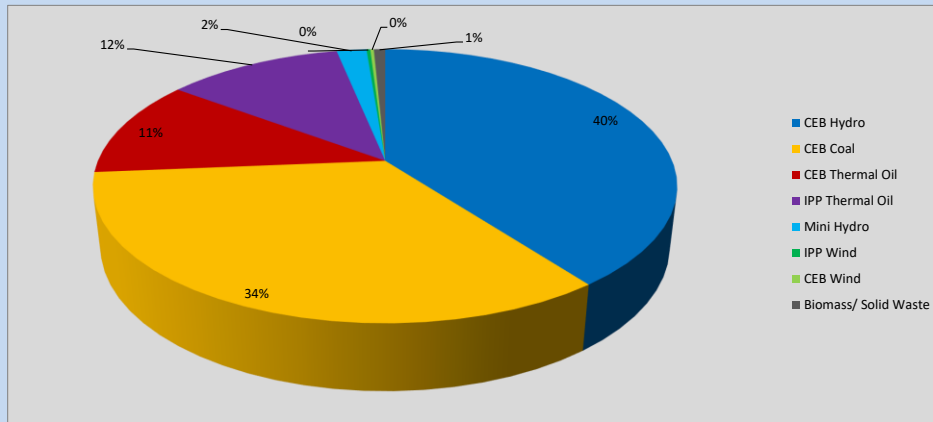


Table 06

CEB Hydro	946	MW
CEB Coal	810	MW
CEB Thermal Oil	274	MW
IPP Thermal Oil	277	MW
Mini Hydro (Telemetered)	47	MW
IPP Wind	5.9	MW
CEB Wind	5.6	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

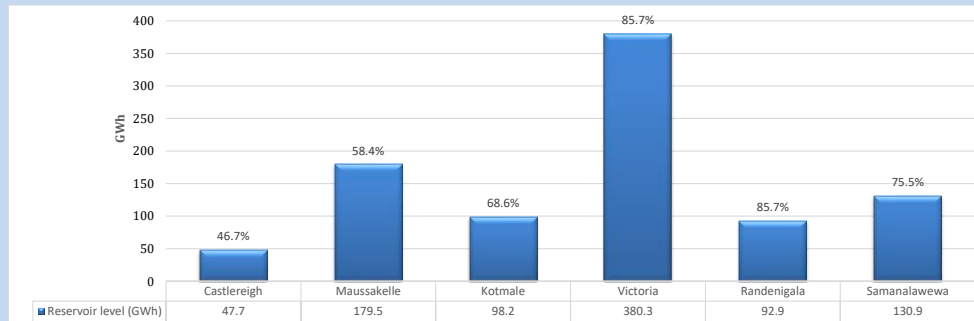
Table 07

Night Peak*	2,383	MW
Day Peak Maximum Demand	2,002	MW
Day Peak Minimum Demand	1,608	MW
Off Peak Minimum Demand	1,458	MW

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

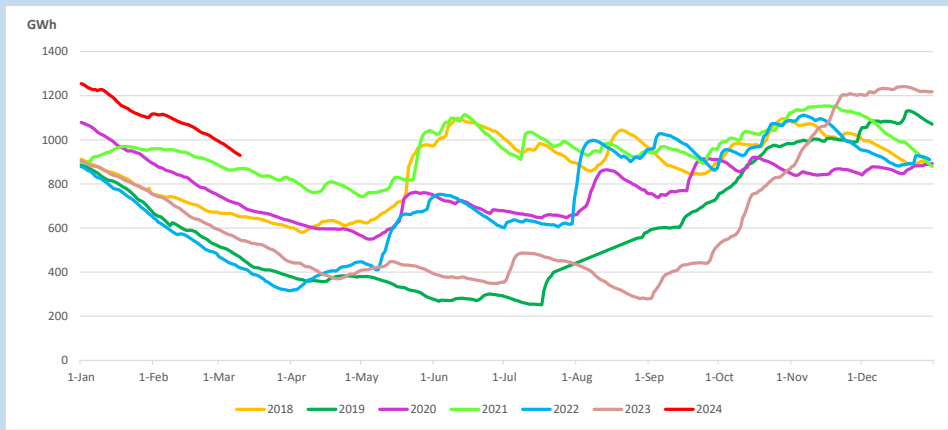
Reservoir Levels -

as at 06.00 Hr on March 10, 2024

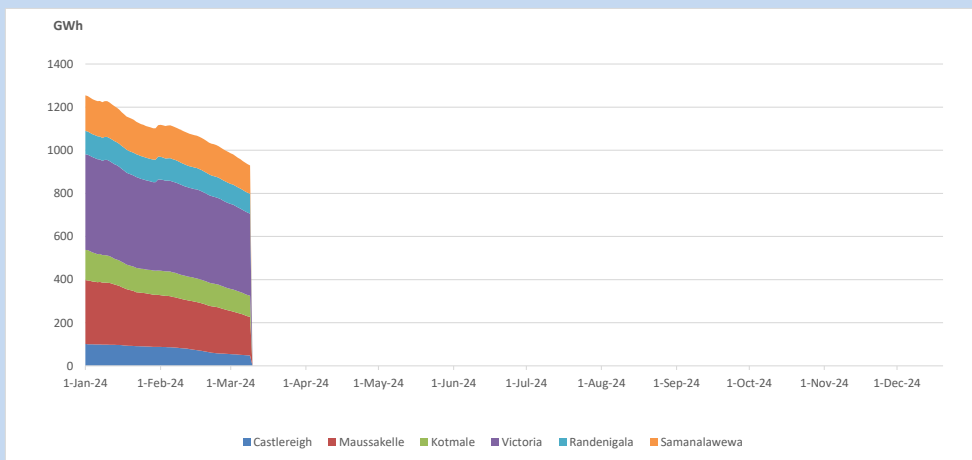


Total Reservoir Level 929.5 GWh
 % of Total capacity 72.7%

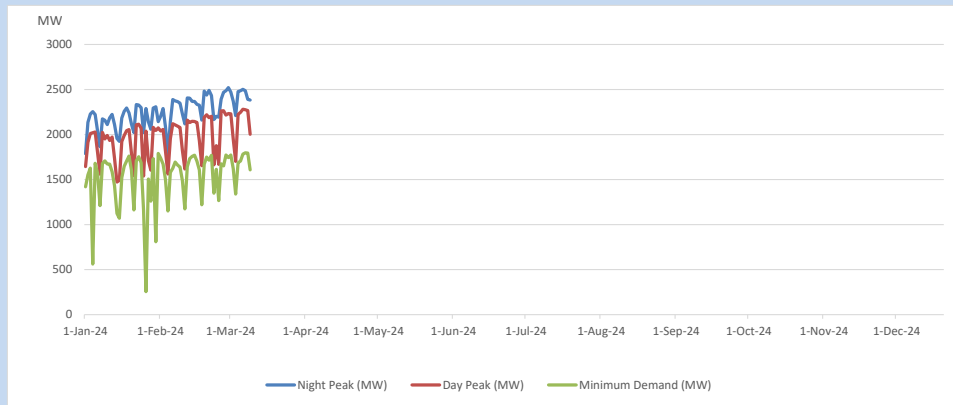
11. Comparison of Total Reservoir Storage Levels with Past Years



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



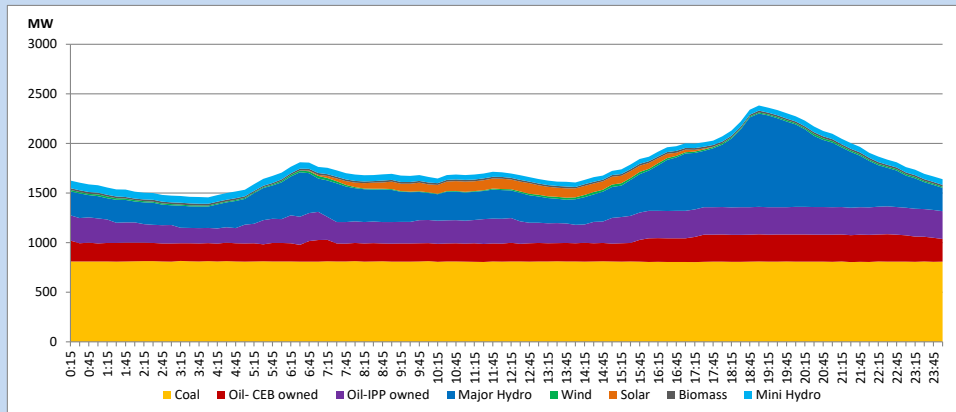
13. Variation of Demand during the current year



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

14. Daily Load Curve

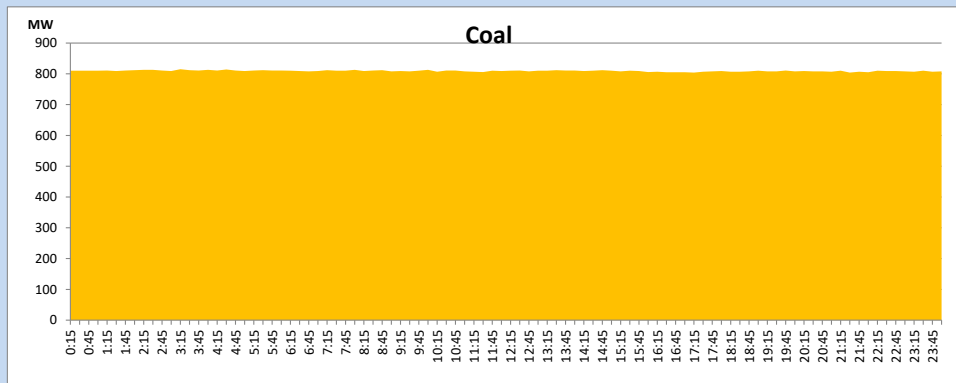
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Solar and wind data is based on Telemetered Power Stations only

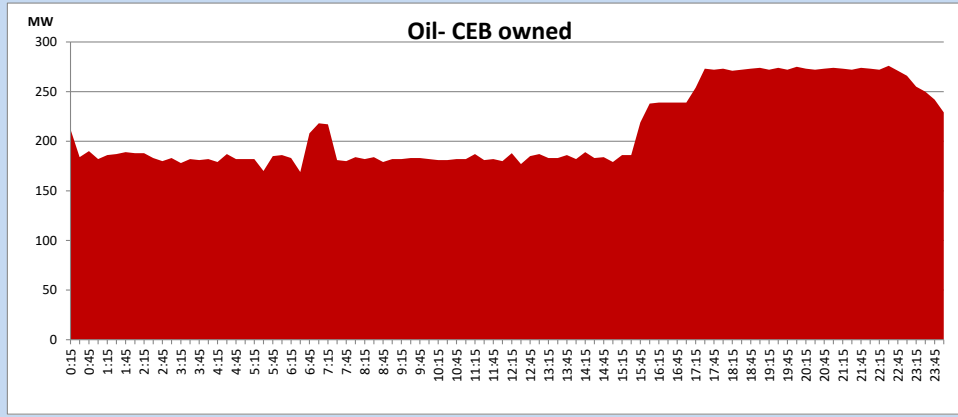
Coal Generation during

March 9, 2024



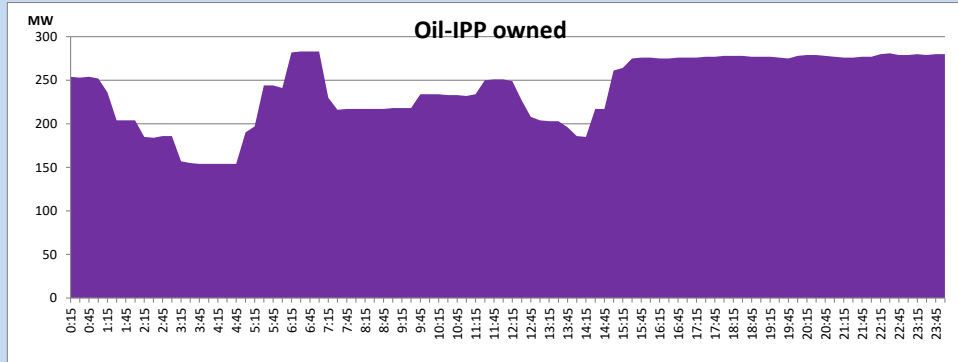
CEB Oil Plant Generation during

March 9, 2024



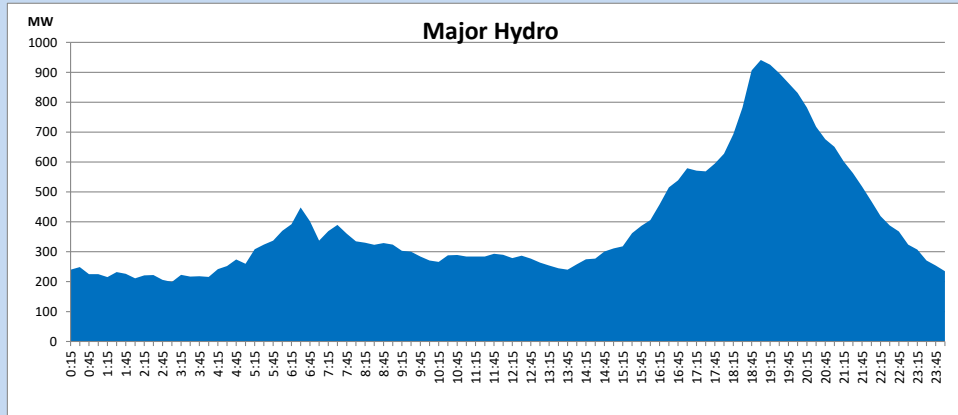
IPP Oil Plant Generation during

March 9, 2024



Major Hydro Generation during

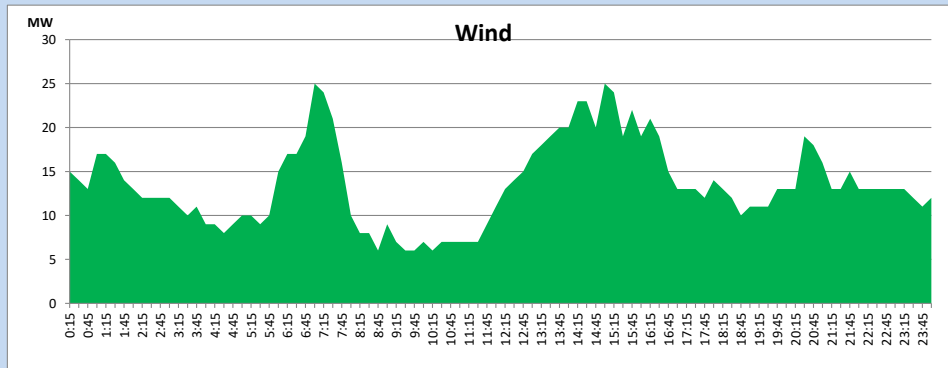
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Wind Generation during

March 9, 2024

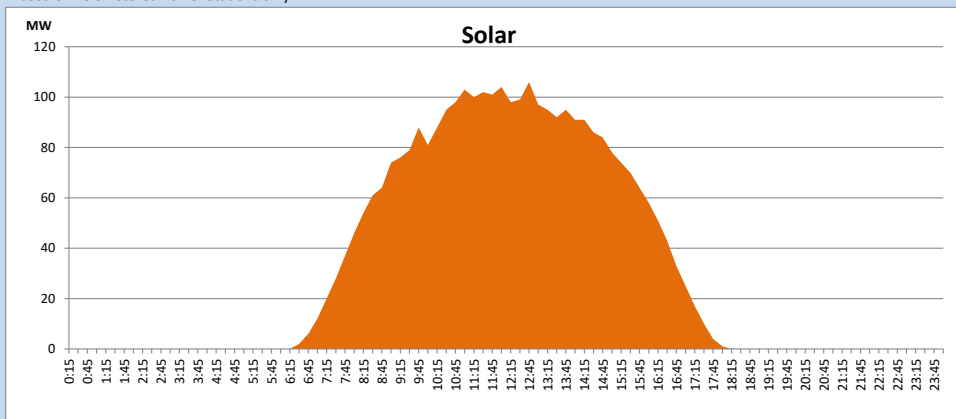
Based on Telemetered Power Stations only



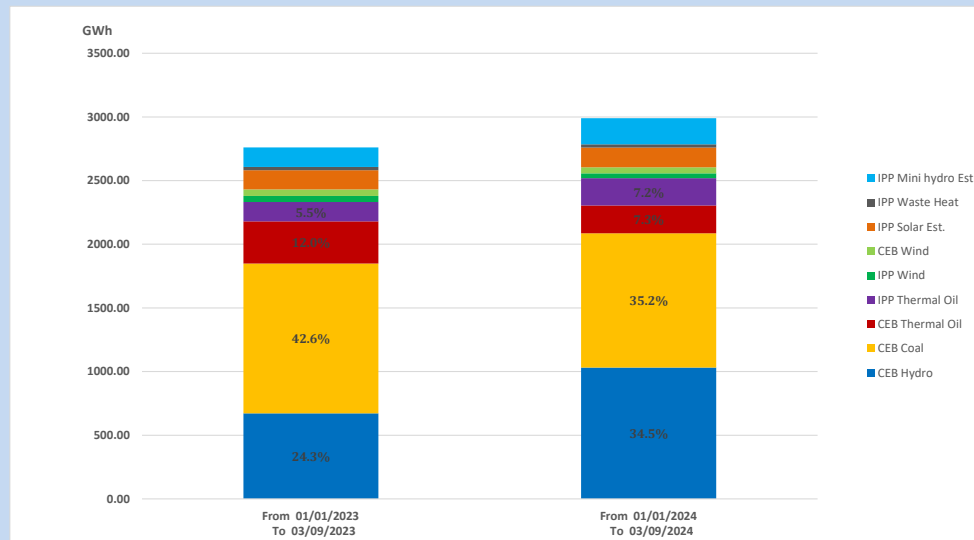
Solar Generation during

March 9, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
From 01/01/2023 To 03/09/2023
From 01/01/2024 To 03/09/2024

2761 GWh
2989 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 Embilipitiya	Heavy Fuel

Major Incidents reported during the day

March 9, 2024

1) Nil.