

Generation and Reservoirs Statistics

March 11, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

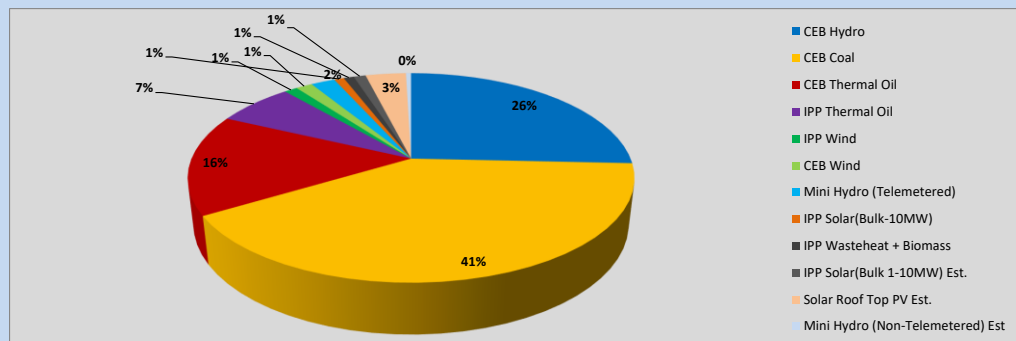


Table 01

	Generation (MWh)
CEB Hydro	12,282
CEB Coal	19,438
CEB Thermal Oil	7,432
IPP Thermal Oil	3,174
IPP Wind	544
CEB Wind	682
Mini Hydro (Telemetered)	995
IPP Solar (Bulk)	406
IPP Waste heat + Biomass	425
Total Generation (Excluding estimated figures)	45,378
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	212
* Estimated IPP Solar PV (Bulk 1-10MW)	497
* Estimated Solar Roof Top PV	1670
Total Generation (Including estimated figures)	47,757

* 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	114	22.56%
CEB Coal	210	41.59%
CEB Thermal Oil	74	14.56%
IPP Thermal	52	10.30%
SPP Wind	4	0.74%
CEB Wind	4	0.87%
Mini Hydro *	16	3.15%
IPP Solar *	27	5.41%
IPP Waste heat + BMP	4	0.83%
Total	506	

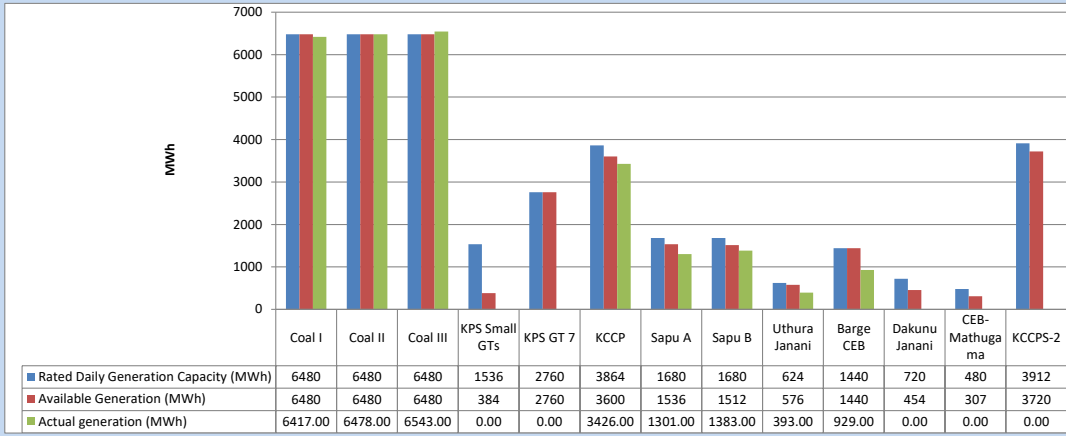
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,052	34.20%
CEB Coal	1,090	35.43%
CEB Thermal Oil	232	7.55%
IPP Thermal	221	7.18%
SPP Wind	40	1.29%
CEB Wind	49	1.58%
Mini Hydro *	207	6.72%
IPP Solar *	160	5.19%
IPP Waste heat	27	0.86%
Total	3,077	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

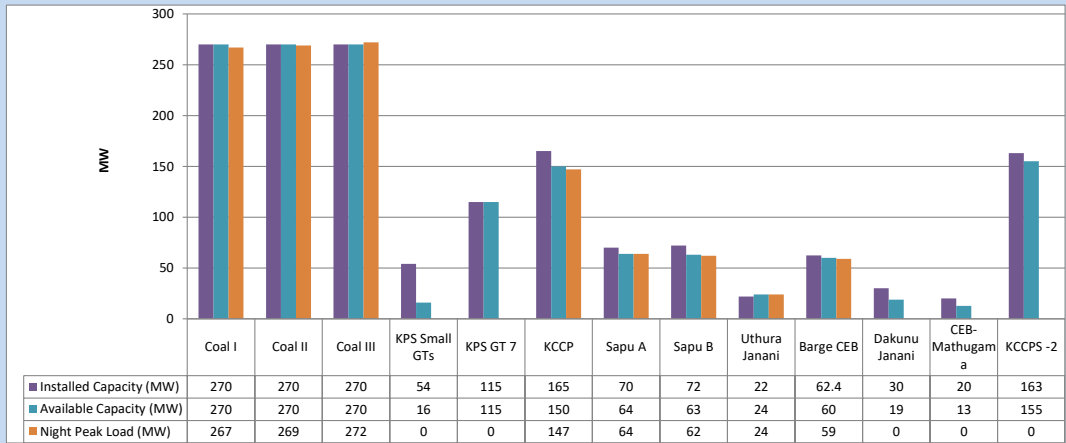
March 11, 2024



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

March 12, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

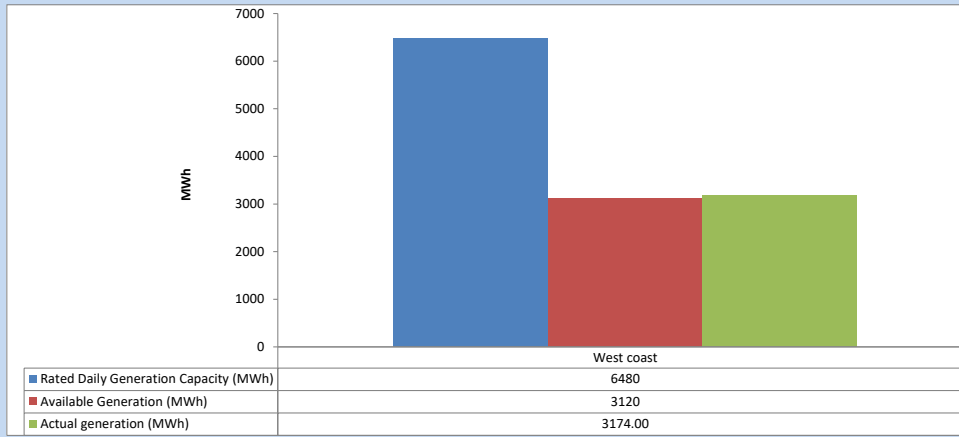


Plant availability is recorded at 6.00 am on

March 12, 2024

5. IPP owned Thermal Plant Dispatch

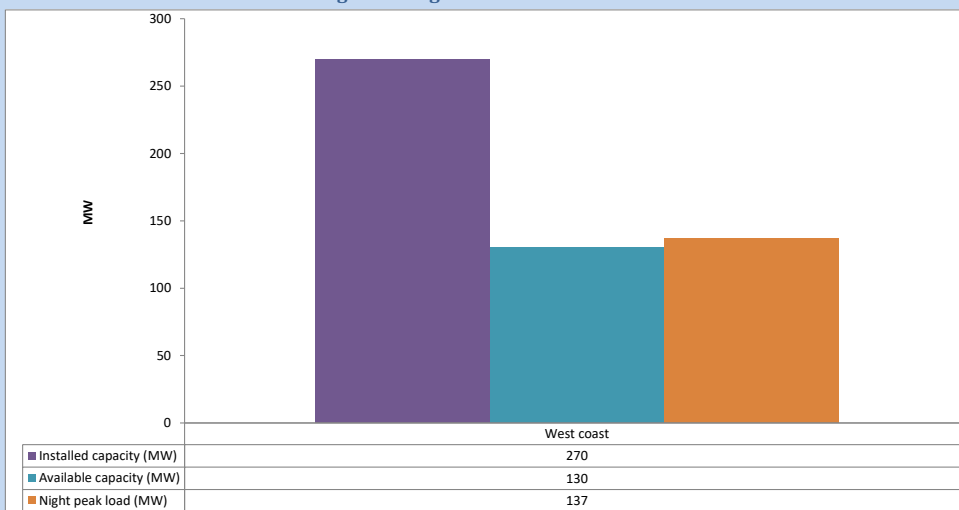
March 11, 2024



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

March 12, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

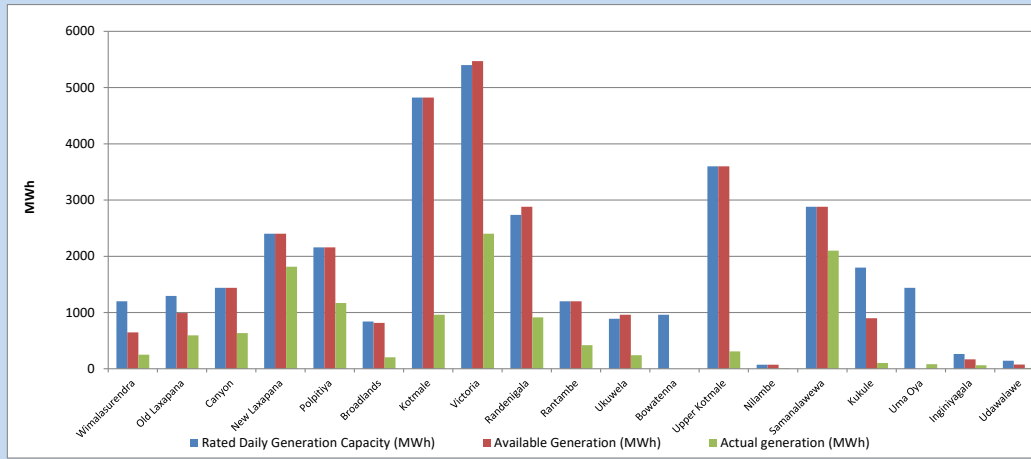


Plant availability is recorded at 6.00 am on

March 12, 2024

7. Major Hydro Plant Dispatch

March 11, 2024

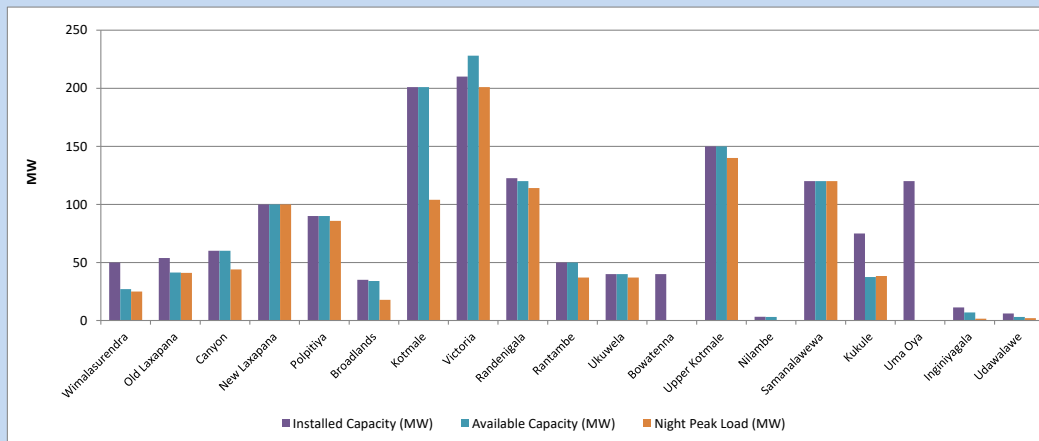


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

March 12, 2024

8. Major Hydro Plant Loading at Night Peak

March 11, 2024



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

March 12, 2024

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	25	251
Old Laxapana	54	41	41	595
Canyon	60	60	44	635
New Laxapana	100	100	100	1,814
Polpitiya	90	90	86	1,170
Broadlands	35	34	18	204
Kotmale	201	201	104	960
Victoria	210	228	201	2,402
Randenigala	123	120	114	913
Rantambe	50	50	37	420
Ukuwela	40	40	37	242
Bowatenna	40	0	0	0
Upper Kotmale	150	150	140	308
Nilambe	3	3	0	7
Samanalawewa	120	120	120	2,100
Kukule	75	38	38	103
Uma Oya (Testing)	120	0	0	81
Inginiyagala	11	7	2	62
Udawalawe	6	3	2	15
Puttalam Coal I	270	270	267	6,417
Puttalam Coal II	270	270	269	6,478
Puttalam Coal III	270	270	272	6,543
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	147	3,426
Sapugaskanda A	70	64	64	1,301
Sapugaskanda B	72	63	62	1,383
Uthura Janani	22	24	24	393
Barge CEB	62	60	59	929
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	137	3,174
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,931	2,528	45,378

Note-

Plant availability is the availability recorded at 6 am on

March 12, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

March 11, 2024

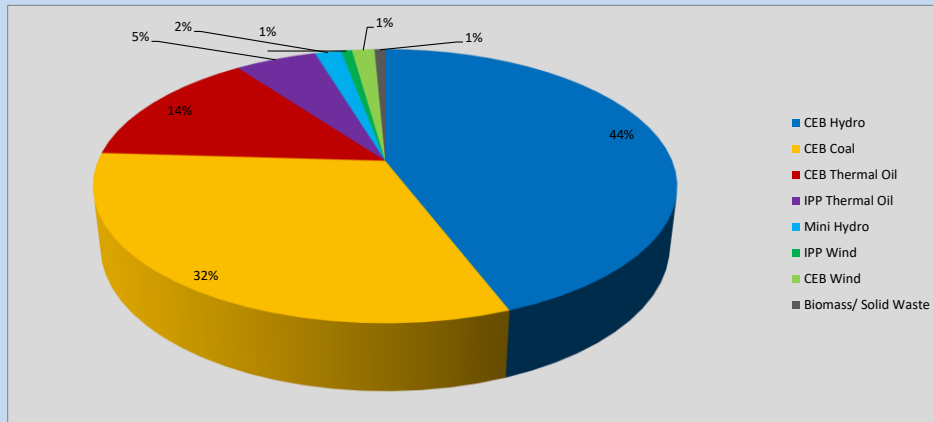


Table 06

CEB Hydro	1124	MW
CEB Coal	808	MW
CEB Thermal Oil	356	MW
IPP Thermal Oil	137	MW
Mini Hydro (Telemetered)	44	MW
IPP Wind	18.3	MW
CEB Wind	38	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

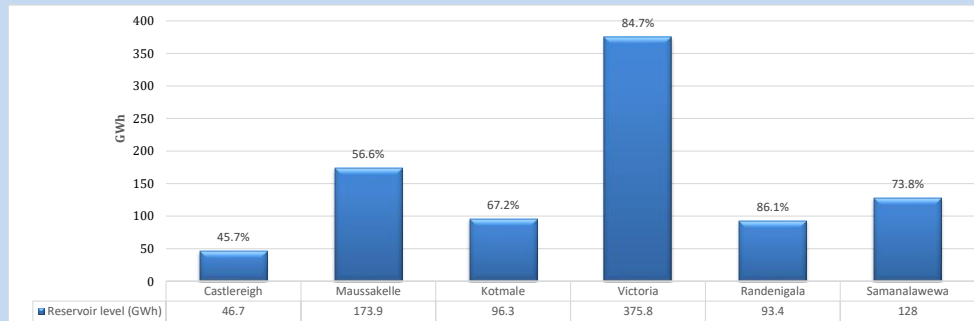
Table 07

Night Peak*	2,544	MW
Day Peak Maximum Demand	2,250	MW
Day Peak Minimum Demand	1,670	MW
Off Peak Minimum Demand	1,344	MW

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

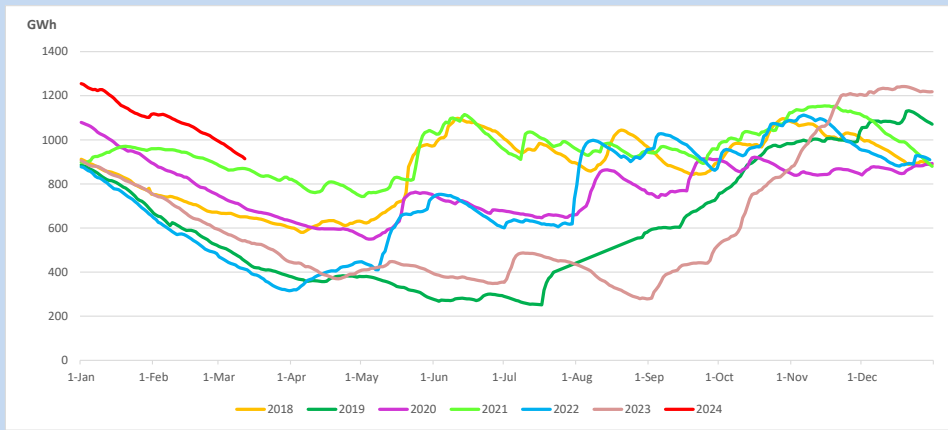
Reservoir Levels -

as at 06.00 Hr on March 12, 2024

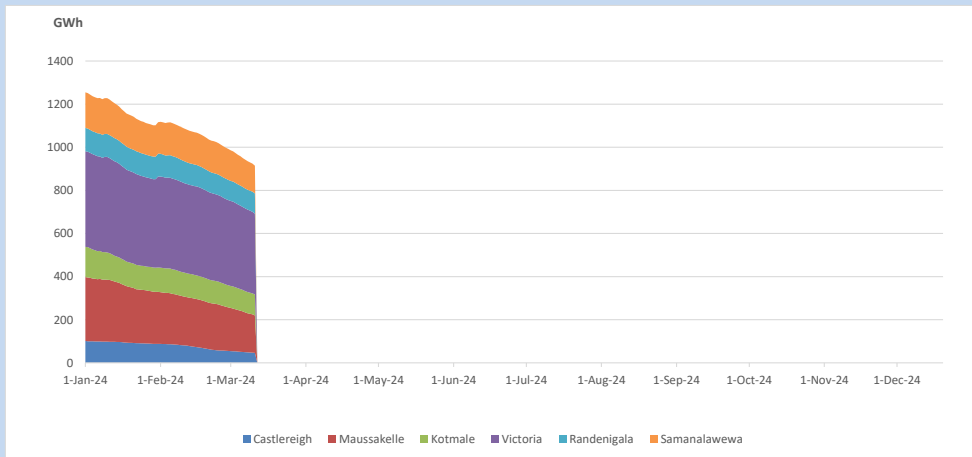


Total Reservoir Level 914.1 GWh
% of Total capacity 71.5%

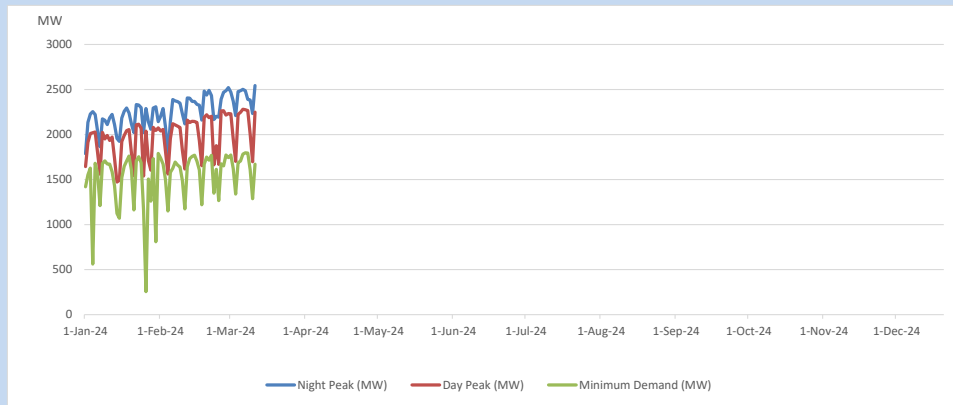
11. Comparison of Total Reservoir Storage Levels with Past Years



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



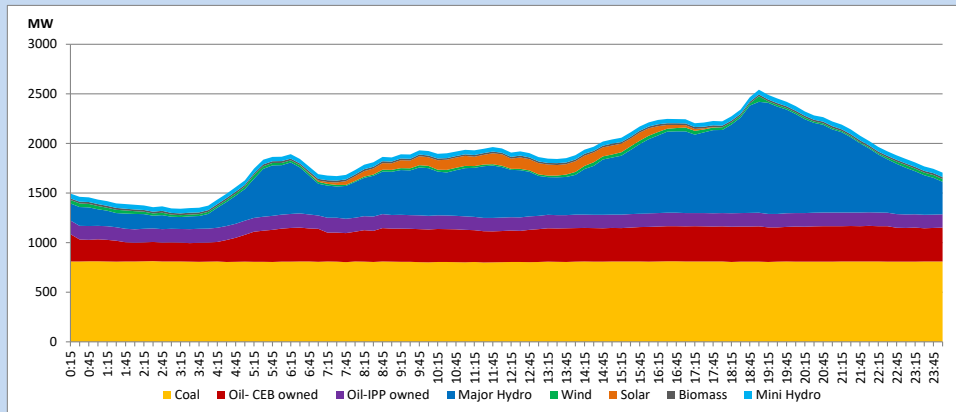
13. Variation of Demand during the current year



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

14. Daily Load Curve

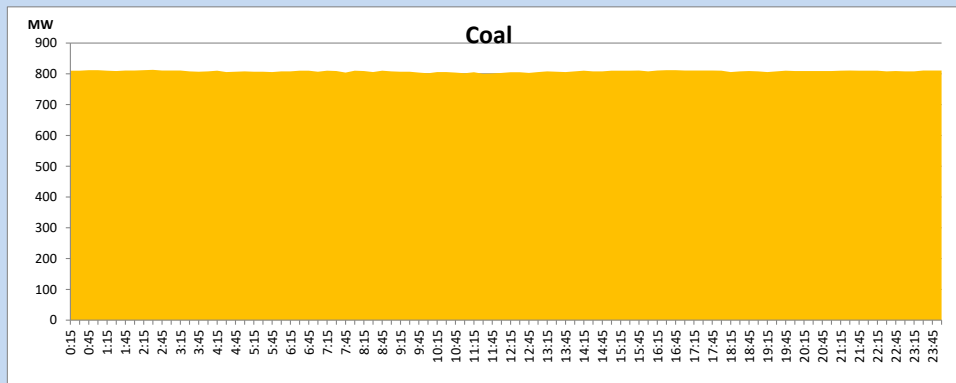
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Solar and wind data is based on Telemetered Power Stations only

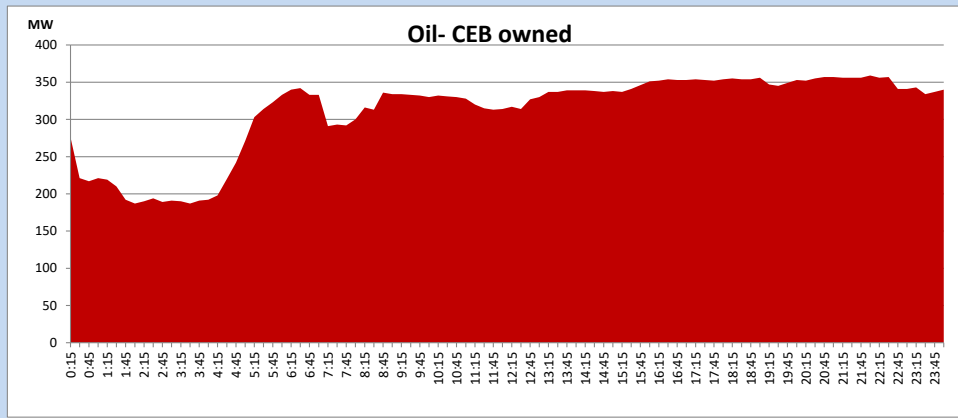
Coal Generation during

March 11, 2024



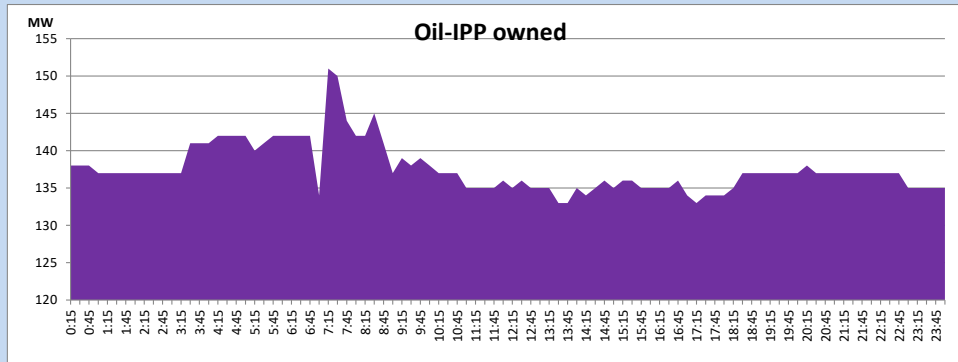
CEB Oil Plant Generation during

March 11, 2024



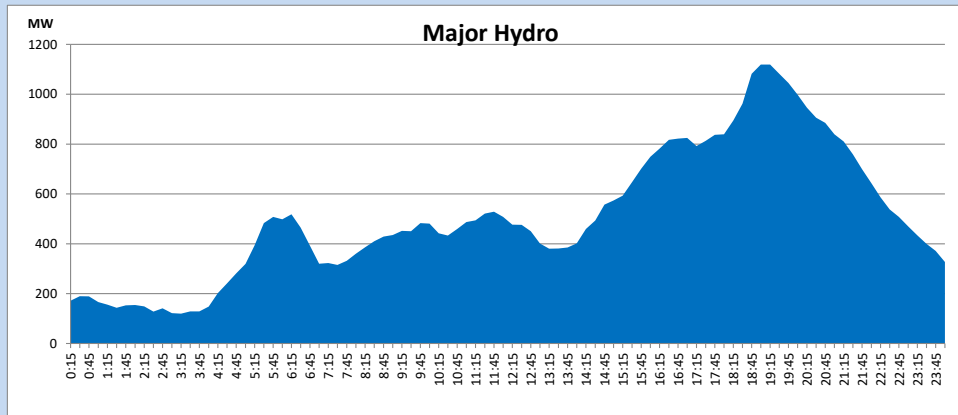
IPP Oil Plant Generation during

March 11, 2024



Major Hydro Generation during

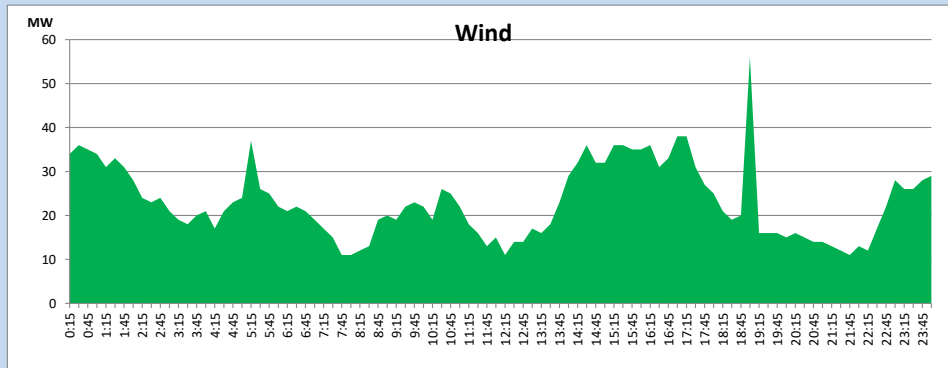
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Wind Generation during

March 11, 2024

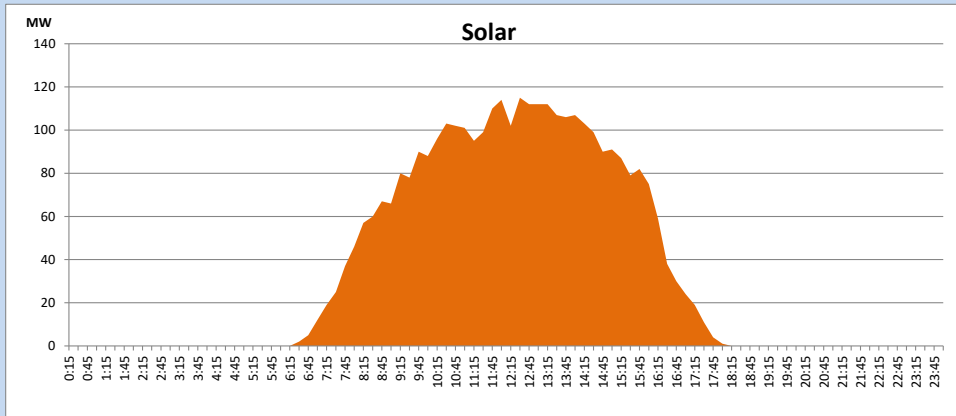
Based on Telemetered Power Stations only



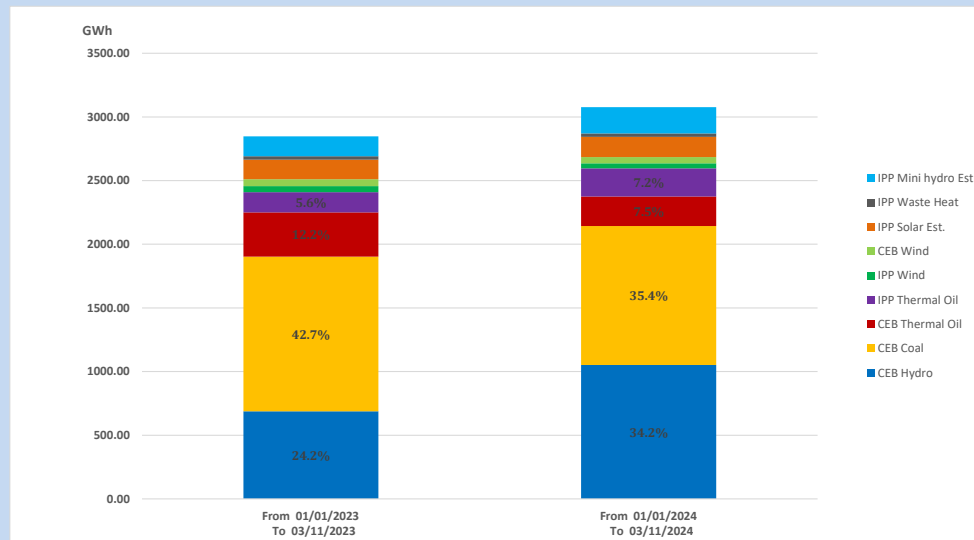
Solar Generation during

March 11, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 03/11/2023
 From 01/01/2024 To 03/12/2024

2848 GWh
 3077 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
 Unused 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 11, 2024

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