

Generation and Reservoirs Statistics

April 7, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

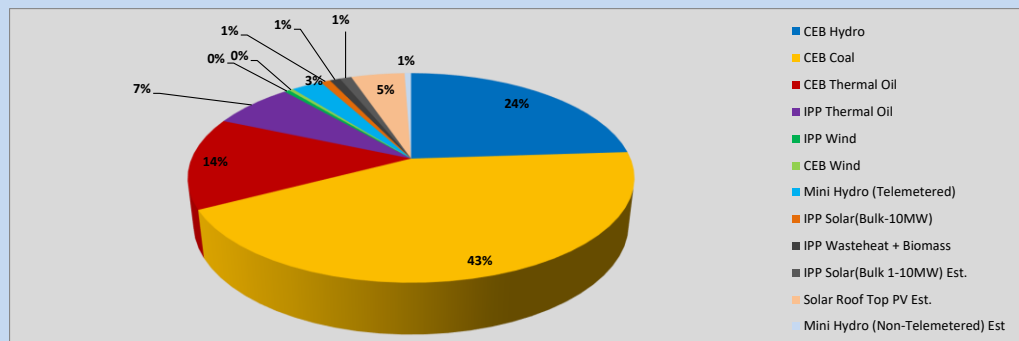


Table 01

	Generation (MWh)
CEB Hydro	10,744
CEB Coal	19,441
CEB Thermal Oil	6,355
IPP Thermal Oil	3,173
IPP Wind	198
CEB Wind	169
Mini Hydro (Telemetered)	1,181
IPP Solar (Bulk)	381
IPP Waste heat + Biomass	404
Total Generation (Excluding estimated figures)	42,046
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	252
* Estimated IPP Solar PV (Bulk 1-10MW)	453
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	44,831

* 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	79	23.11%
CEB Coal	136	39.78%
CEB Thermal Oil	50	14.52%
IPP Thermal	40	11.72%
SPP Wind	1	0.37%
CEB Wind	1	0.29%
Mini Hydro *	13	3.70%
IPP Solar *	20	5.88%
IPP Waste heat + BMP	2	0.62%
Total	342	

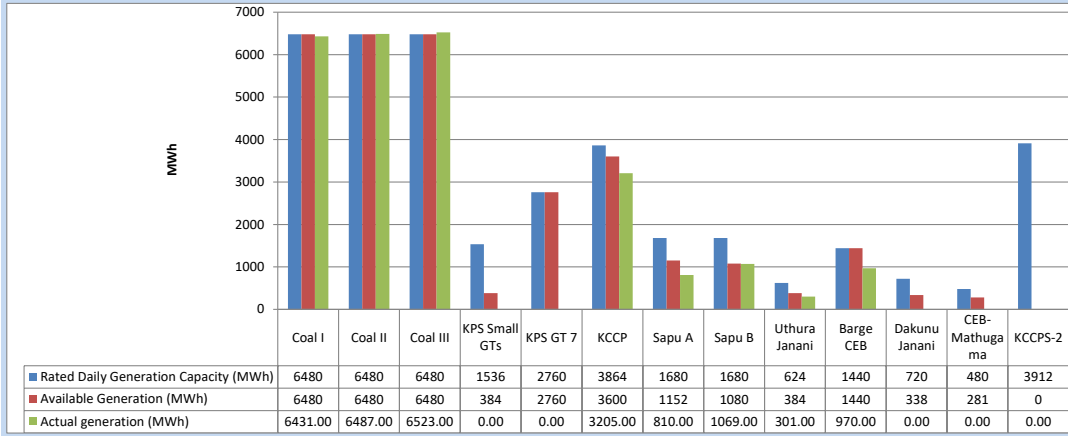
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,342	30.70%
CEB Coal	1,613	36.89%
CEB Thermal Oil	429	9.81%
IPP Thermal	371	8.50%
SPP Wind	48	1.09%
CEB Wind	56	1.28%
Mini Hydro *	248	5.67%
IPP Solar *	229	5.25%
IPP Waste heat	35	0.81%
Total	4,372	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

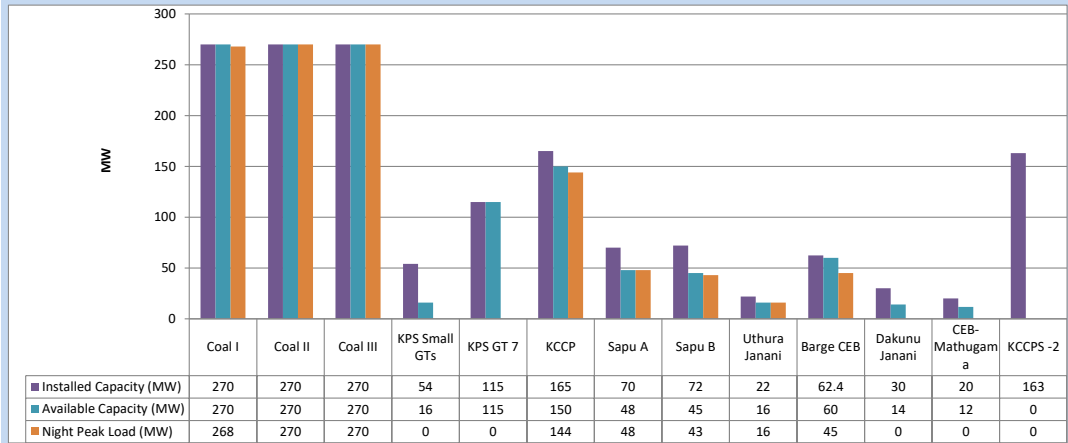
April 7, 2024



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

April 8, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

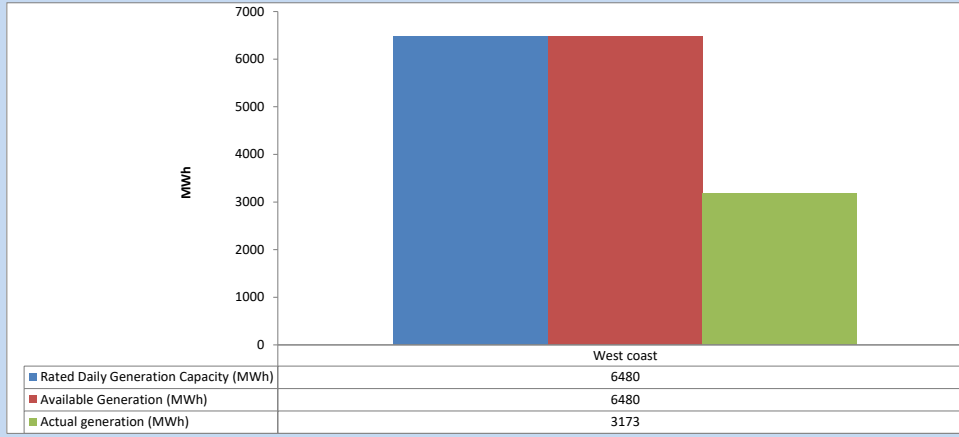


Plant availability is recorded at 6.00 am on

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5. IPP owned Thermal Plant Dispatch

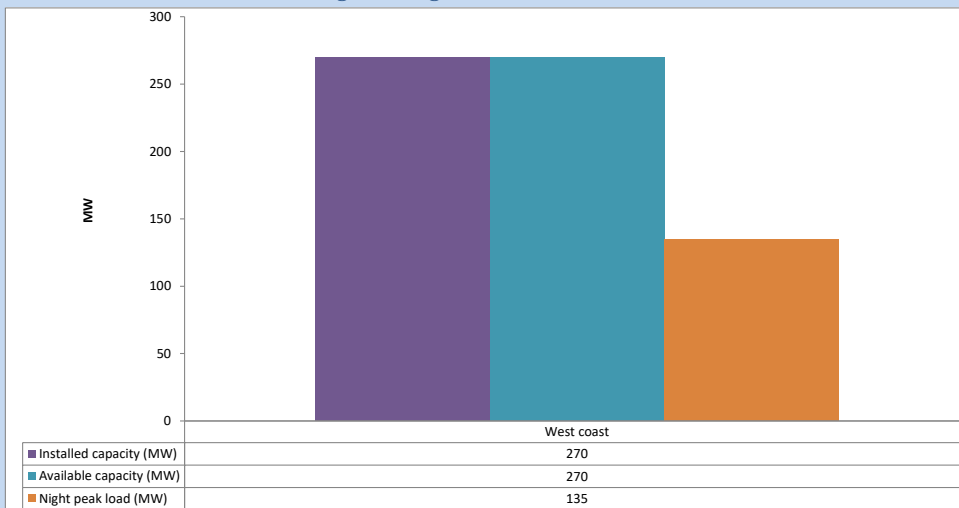
April 7, 2024



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

April 8, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

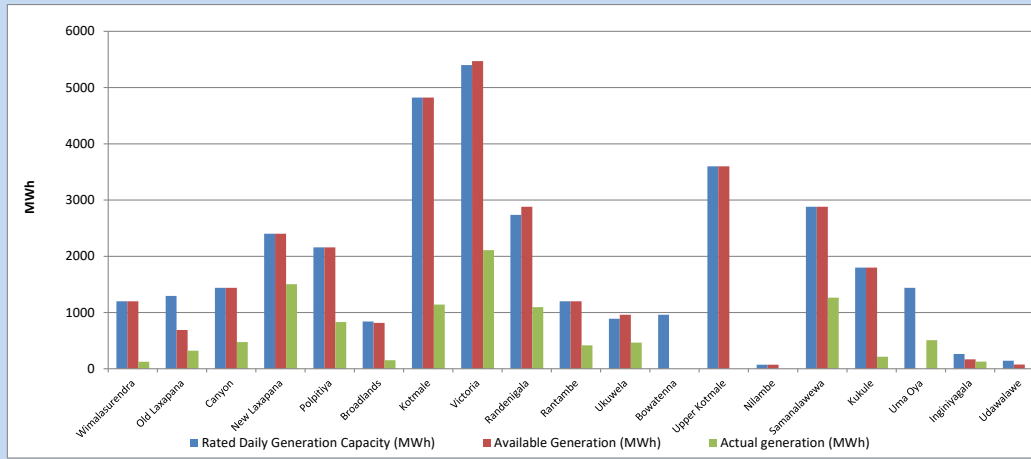


Plant availability is recorded at 6.00 am on

April 8, 2024

7. Major Hydro Plant Dispatch

April 7, 2024

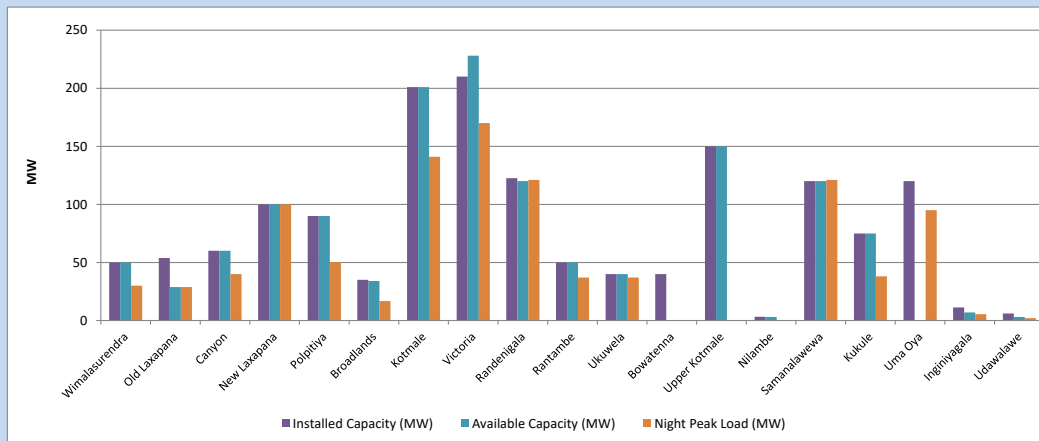


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 8, 2024

8. Major Hydro Plant Loading at Night Peak

April 7, 2024



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

April 8, 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	50	30	124
Old Laxapana	54	29	29	322
Canyon	60	60	40	476
New Laxapana	100	100	100	1,503
Polpitiya	90	90	50	830
Broadlands	35	34	17	153
Kotmale	201	201	141	1,140
Victoria	210	228	170	2,108
Randenigala	123	120	121	1,096
Rantambe	50	50	37	417
Ukuwela	40	40	37	465
Bowatenna	40	0	0	0
Upper Kotmale	150	150	0	0
Nilambe	3	3	0	0
Samanalawewa	120	120	121	1,264
Kukule	75	75	38	212
Uma Oya (Testing)	120	0	95	507
Inginiyagala	11	7	5	127
Udawalawe	6	3	2	0
Puttalam Coal I	270	270	268	6,431
Puttalam Coal II	270	270	270	6,487
Puttalam Coal III	270	270	270	6,523
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	144	3,205
Sapugaskanda A	70	48	48	810
Sapugaskanda B	72	45	43	1,069
Uthura Janani	22	16	16	301
Barge CEB	62	60	45	970
CEB-Hambantota	30	14	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	270	135	3,173
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,916	2,370	42,046

Note-

Plant availability is the availability recorded at 6 am on

April 8, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 7, 2024

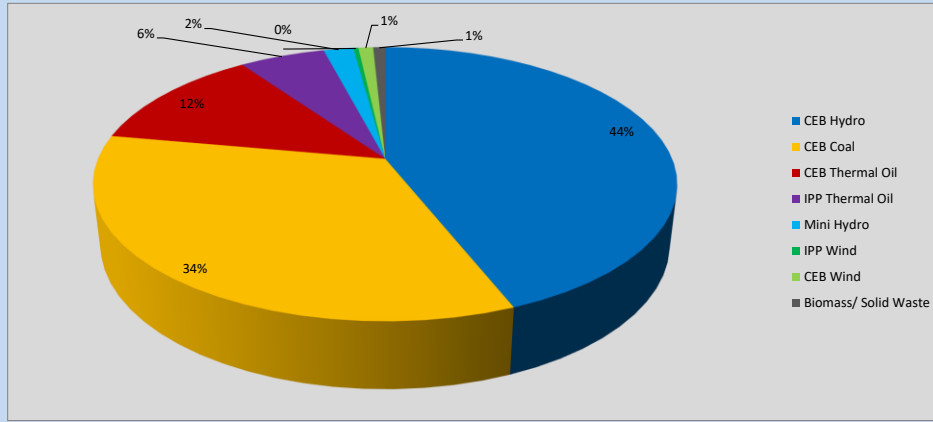


Table 06

CEB Hydro	1048	MW
CEB Coal	808	MW
CEB Thermal Oil	296	MW
IPP Thermal Oil	135	MW
Mini Hydro (Telemetered)	47	MW
IPP Wind	8	MW
CEB Wind	23.3	MW
Biomass/ Solid Waste	19	MW

Recorded Peak Demand Data

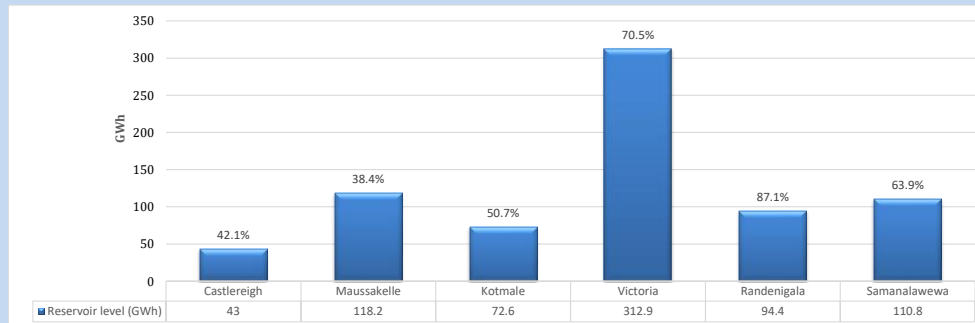
Table 07

Night Peak*	2,385	MW
Day Peak Maximum Demand	1,891	MW
Day Peak Minimum Demand	1,503	MW
Off Peak Minimum Demand	1,595	MW

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

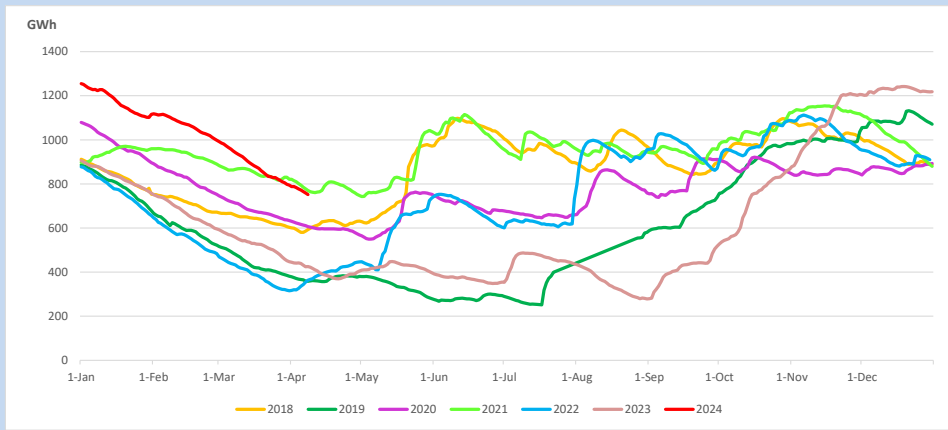
Reservoir Levels -

as at 06.00 Hr on April 8, 2024

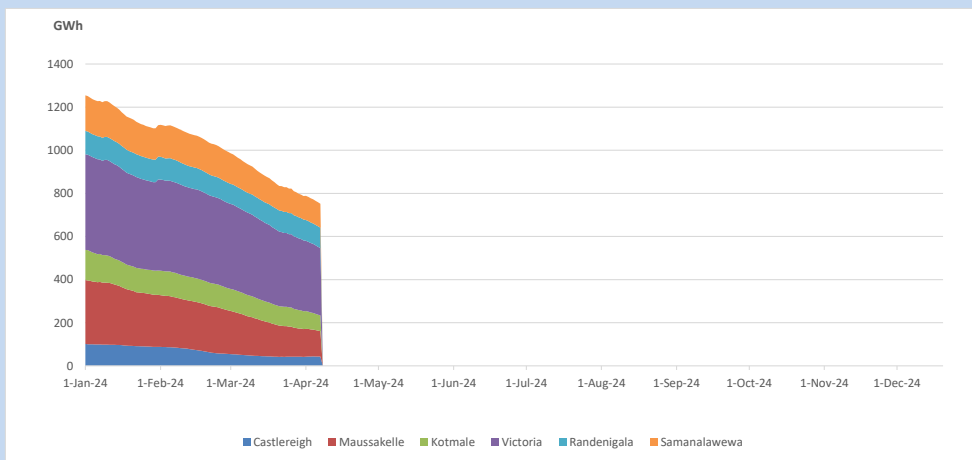


Total Reservoir Level
751.9 GWh
% of Total capacity
58.8%

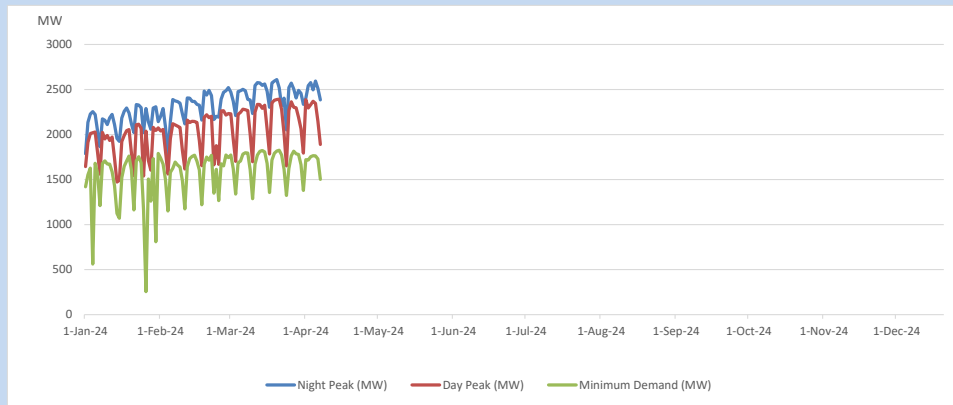
11. Comparison of Total Reservoir Storage Levels with Past Years



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



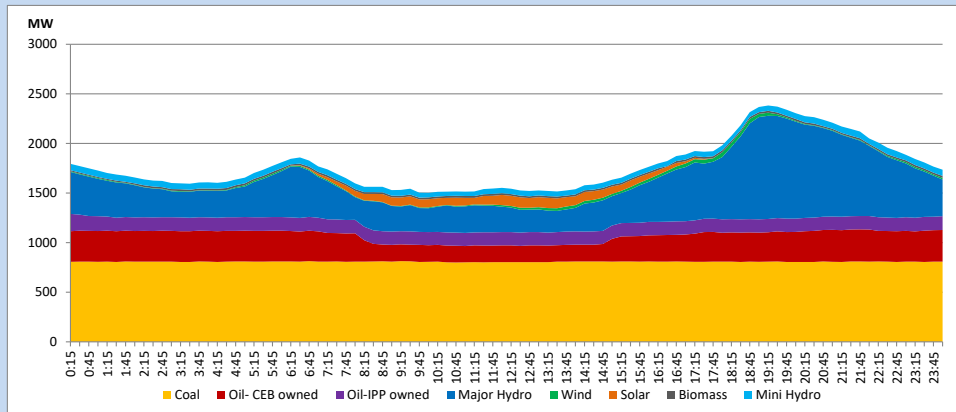
13. Variation of Demand during the current year



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

14. Daily Load Curve

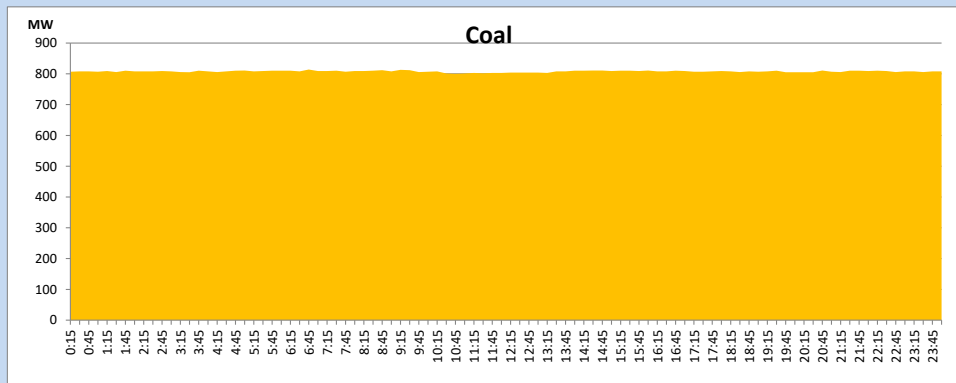
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Solar and wind data is based on Telemetered Power Stations only

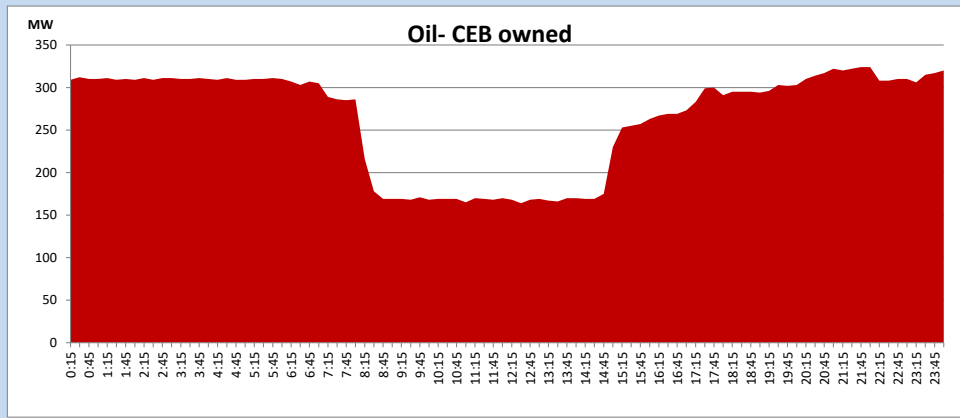
Coal Generation during

April 7, 2024



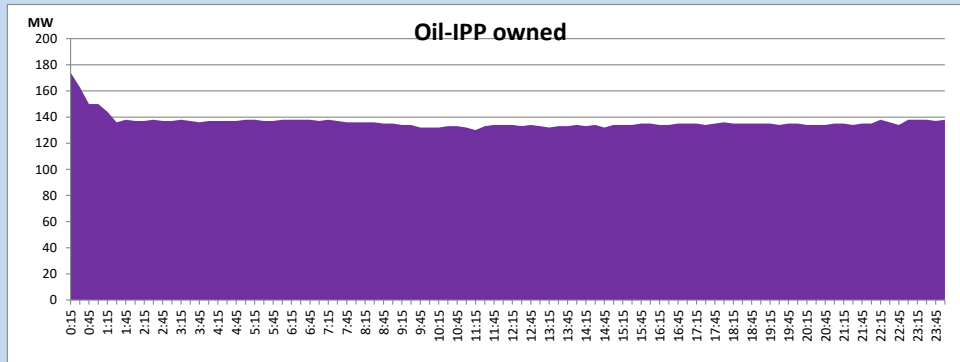
CEB Oil Plant Generation during

April 7, 2024



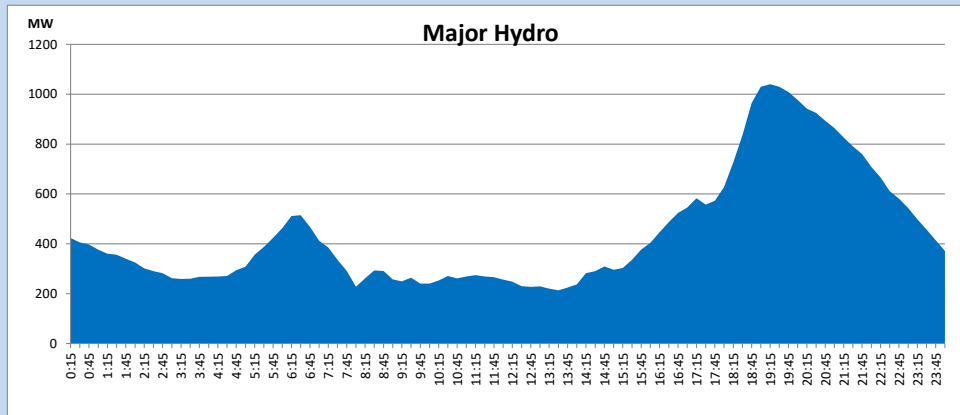
IPP Oil Plant Generation during

April 7, 2024



Major Hydro Generation during

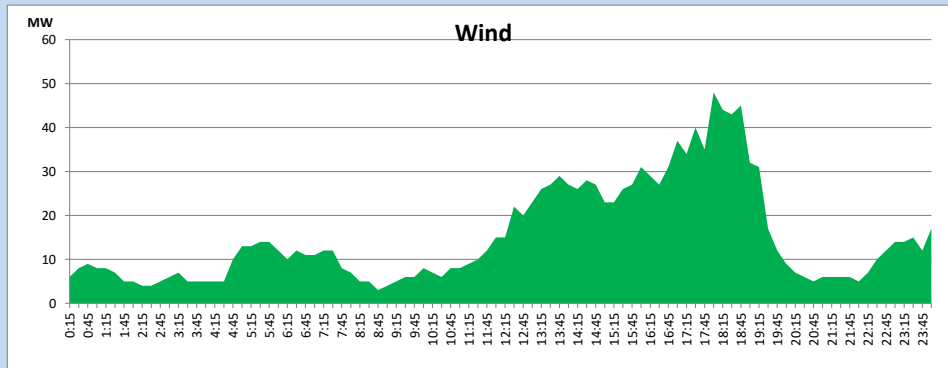
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Wind Generation during

April 7, 2024

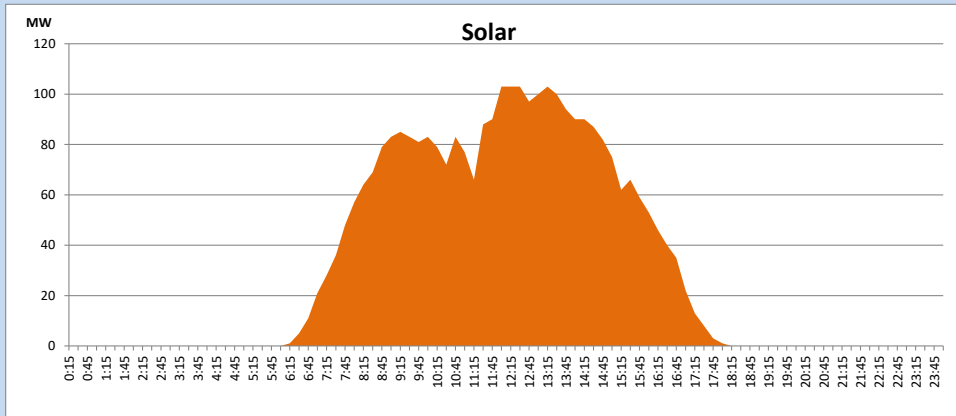
Based on Telemetered Power Stations only



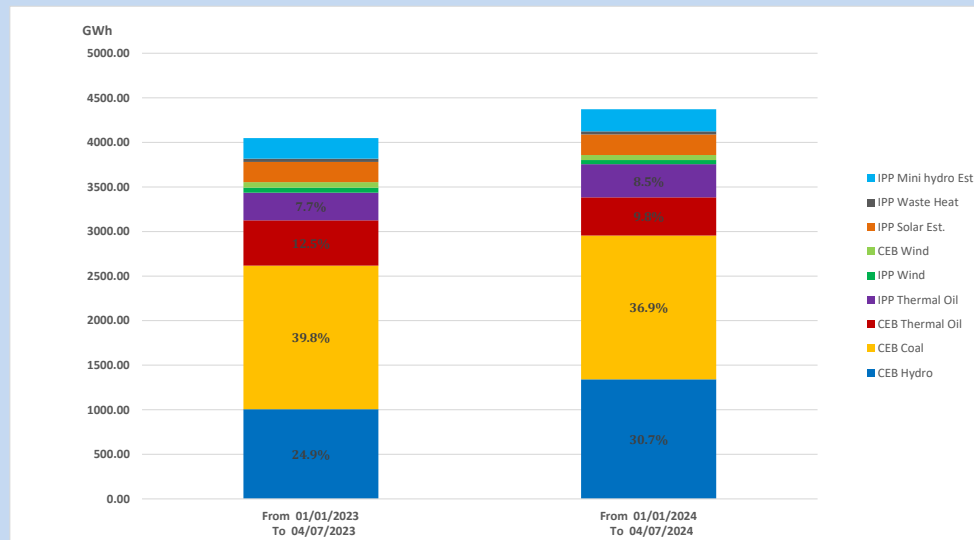
Solar Generation during

April 7, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 04/07/2023
 From 01/01/2024 To 04/07/2024

4047 GWh
 4372 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

Major Incidents reported during the day

April 7, 2024

1) Nil