

Generation and Reservoirs Statistics

April 17, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

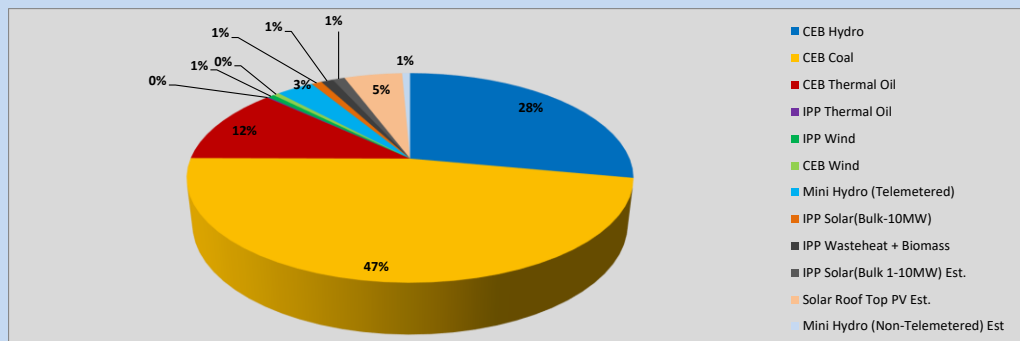


Table 01

	Generation (MWh)
CEB Hydro	11,554
CEB Coal	19,491
CEB Thermal Oil	4,868
IPP Thermal Oil	56
IPP Wind	234
CEB Wind	218
Mini Hydro (Telemetered)	1,332
IPP Solar (Bulk)	367
IPP Waste heat + Biomass	430
Total Generation (Excluding estimated figures)	38,550
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	284
* Estimated IPP Solar PV (Bulk 1-10MW)	435
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	41,349

* 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	189	25.40%
CEB Coal	290	38.94%
CEB Thermal Oil	96	12.88%
IPP Thermal	76	10.26%
SPP Wind	5	0.66%
CEB Wind	5	0.65%
Mini Hydro *	29	3.91%
IPP Solar *	48	6.42%
IPP Waste heat + BMP	6	0.87%
Total	745	

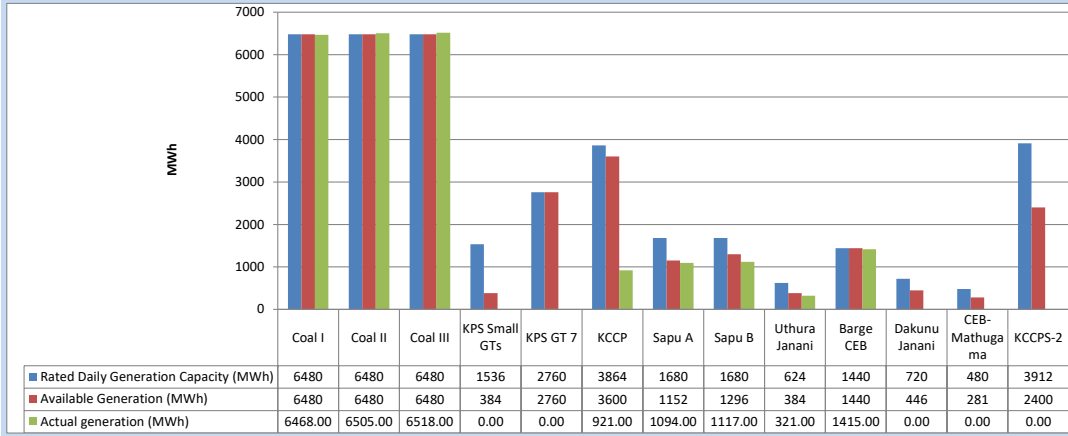
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,452	30.42%
CEB Coal	1,767	37.00%
CEB Thermal Oil	475	9.95%
IPP Thermal	408	8.54%
SPP Wind	51	1.07%
CEB Wind	60	1.26%
Mini Hydro *	264	5.54%
IPP Solar *	257	5.39%
IPP Waste heat	40	0.83%
Total	4,774	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

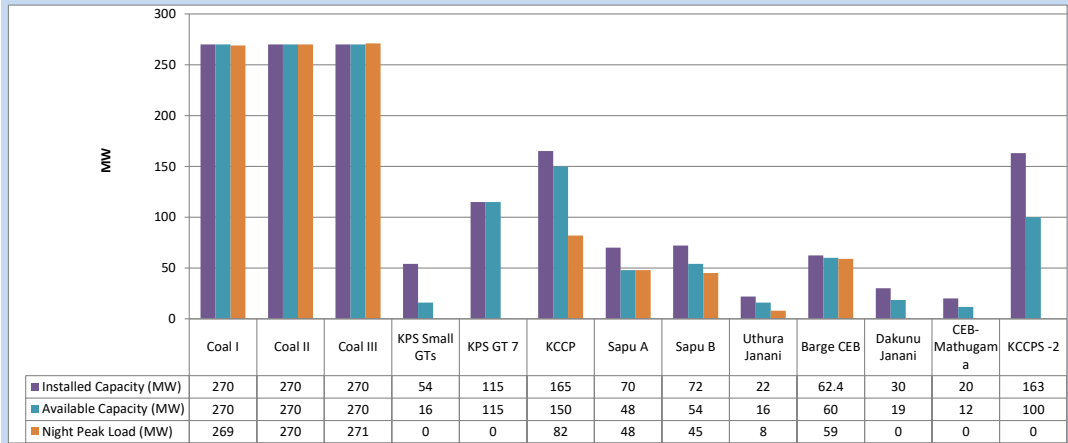
April 17, 2024



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

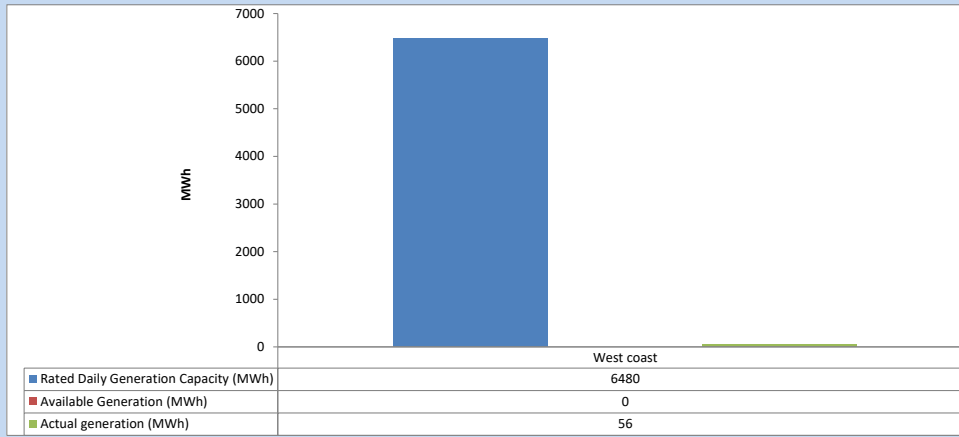


Plant availability is recorded at 6.00 am on

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5. IPP owned Thermal Plant Dispatch

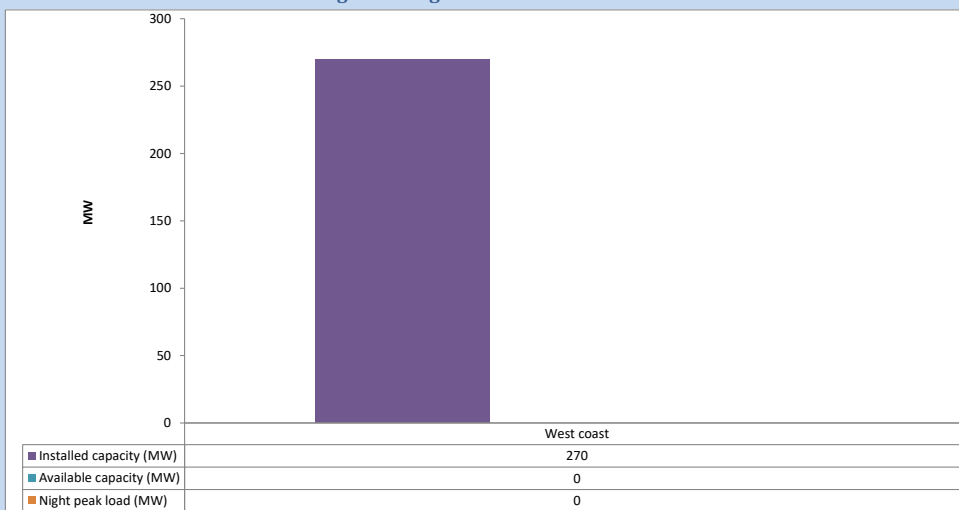
April 17, 2024



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

April 18, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

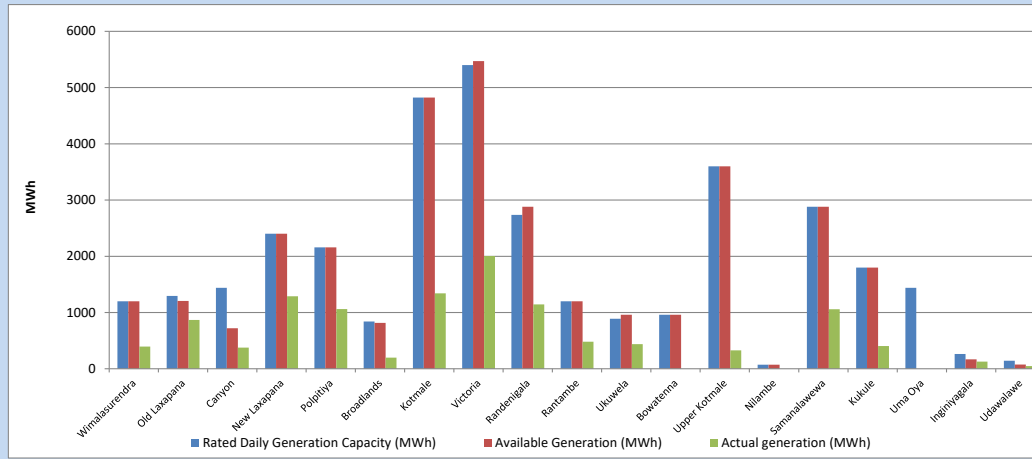


Plant availability is recorded at 6.00 am on

April 18, 2024

7. Major Hydro Plant Dispatch

April 17, 2024

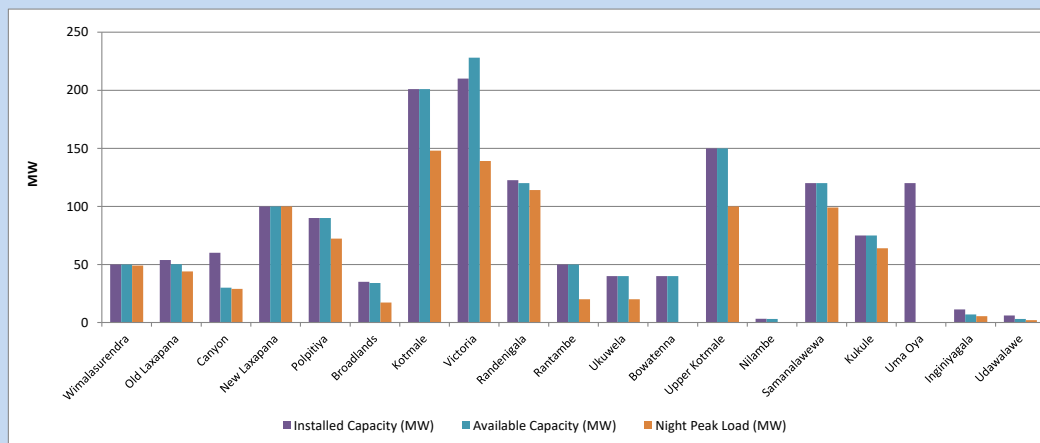


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 18, 2024

8. Major Hydro Plant Loading at Night Peak

April 17, 2024



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

April 18, 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	49	395
Old Laxapana	54	50	44	869
Canyon	60	30	29	375
New Laxapana	100	100	100	1,288
Polpitiya	90	90	72	1,060
Broadlands	35	34	17	198
Kotmale	201	201	148	1,340
Victoria	210	228	139	2,004
Randenigala	123	120	114	1,143
Rantambe	50	50	20	480
Ukuwela	40	40	20	438
Bowatenna	40	40	0	0
Upper Kotmale	150	150	100	327
Nilambe	3	3	0	0
Samanalawewa	120	120	99	1,058
Kukule	75	75	64	403
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	127
Udawalawe	6	3	2	49
Puttalam Coal I	270	270	269	6,468
Puttalam Coal II	270	270	270	6,505
Puttalam Coal III	270	270	271	6,518
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	82	921
Sapugaskanda A	70	48	48	1,094
Sapugaskanda B	72	54	45	1,117
Uthura Janani	22	16	8	321
Barge CEB	62	60	59	1,415
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	100	0	0
West Coast	270	0	0	56
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,791	2,159	38,550

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

April 17, 2024

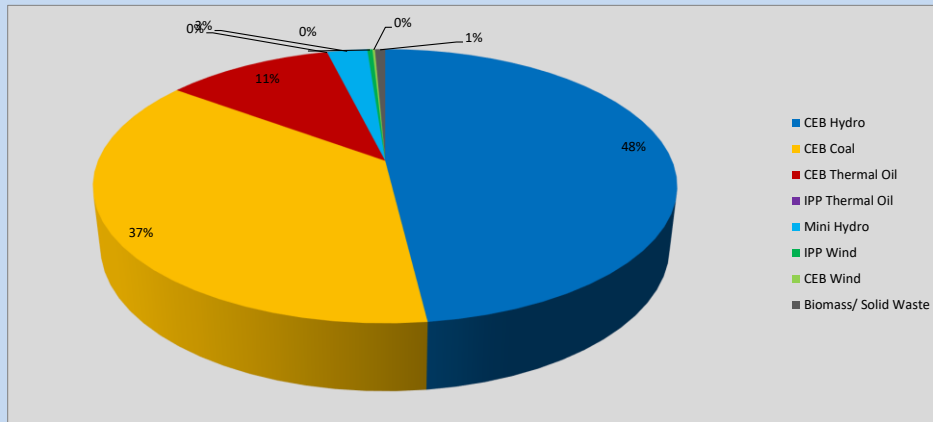


Table 06

CEB Hydro	1052	MW
CEB Coal	810	MW
CEB Thermal Oil	242	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	58	MW
IPP Wind	7.6	MW
CEB Wind	3.4	MW
Biomass/ Solid Waste	15	MW

Recorded Peak Demand Data

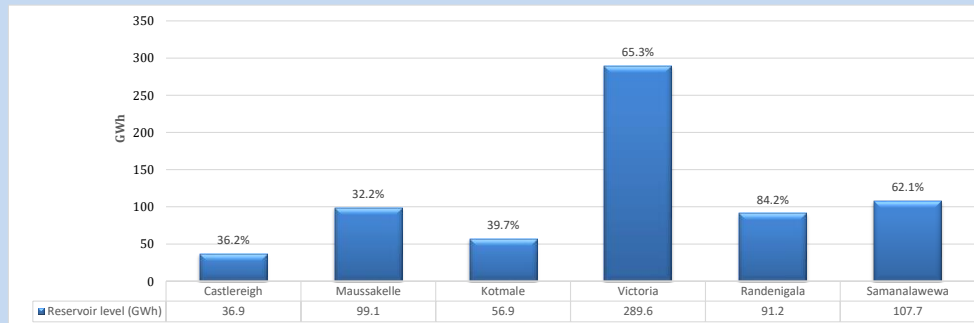
Table 07

Night Peak*	2,189	MW
Day Peak Maximum Demand	1,838	MW
Day Peak Minimum Demand	1,464	MW
Off Peak Minimum Demand	1,272	MW

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

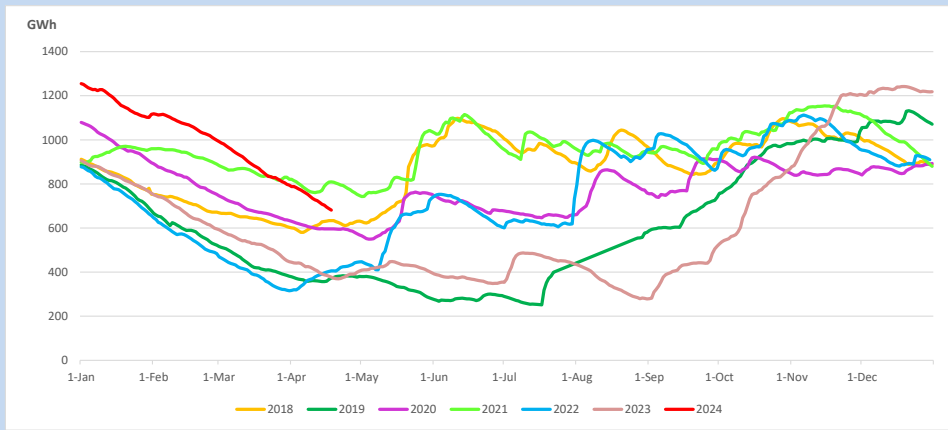
Reservoir Levels -

as at 06.00 Hr on April 18, 2024

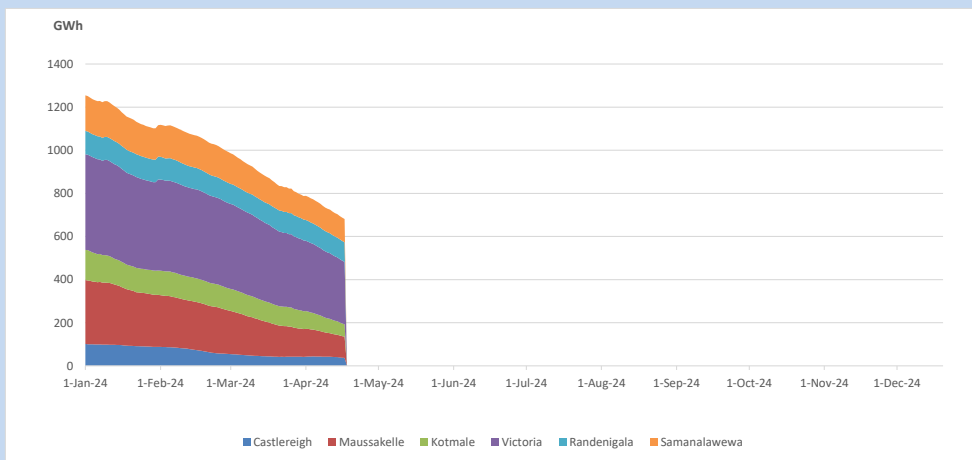


Total Reservoir Level 681.4 GWh
% of Total capacity 53.3%

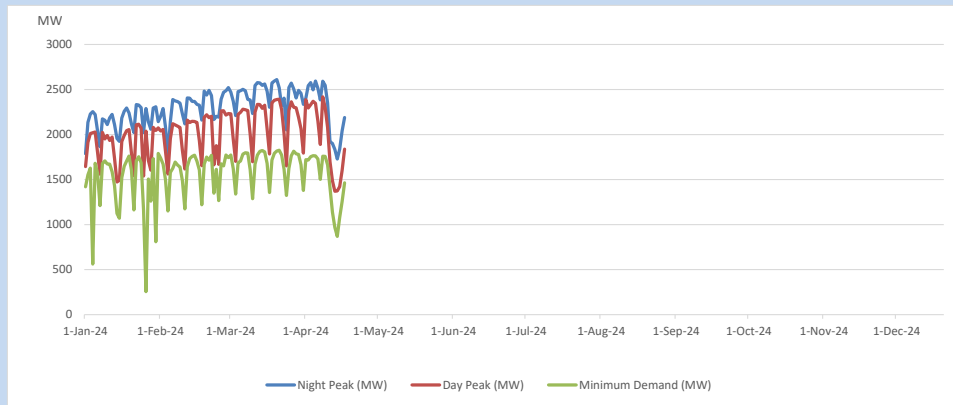
11. Comparison of Total Reservoir Storage Levels with Past Years



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



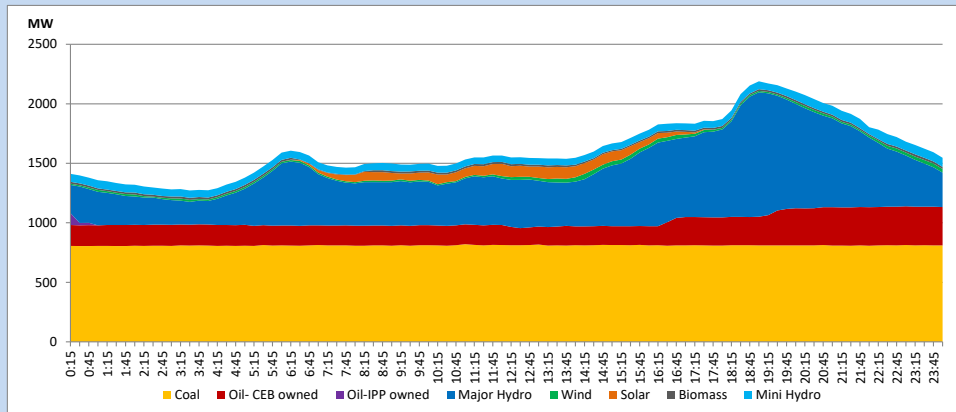
13. Variation of Demand during the current year



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

14. Daily Load Curve

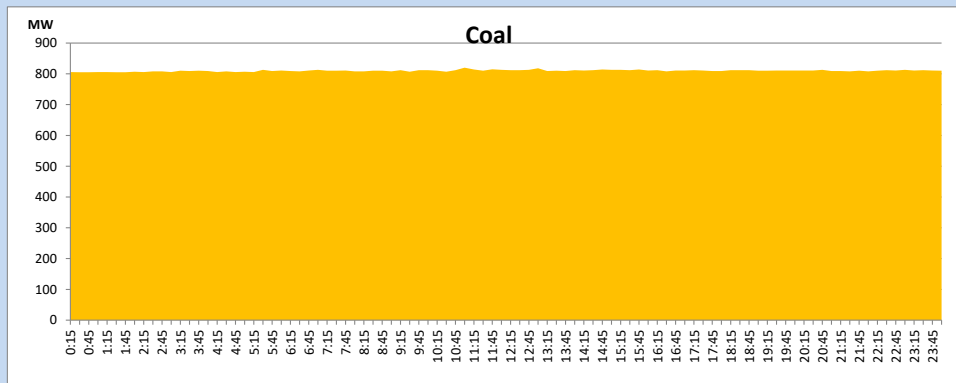
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Solar and wind data is based on Telemetered Power Stations only

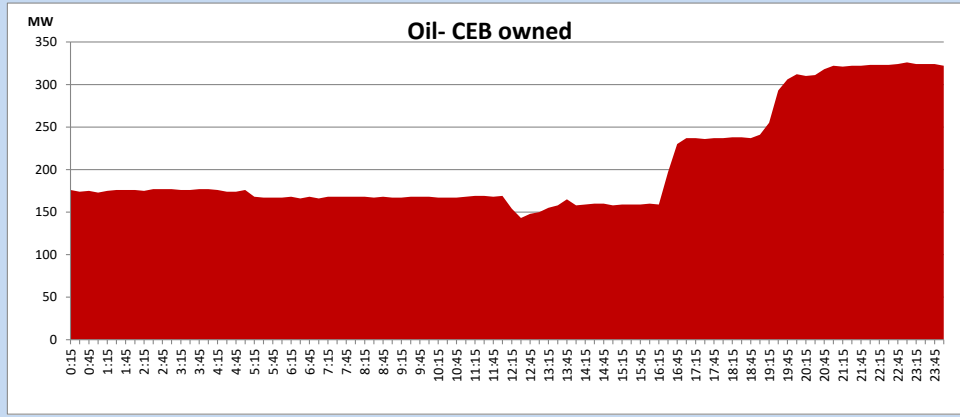
Coal Generation during

April 17, 2024



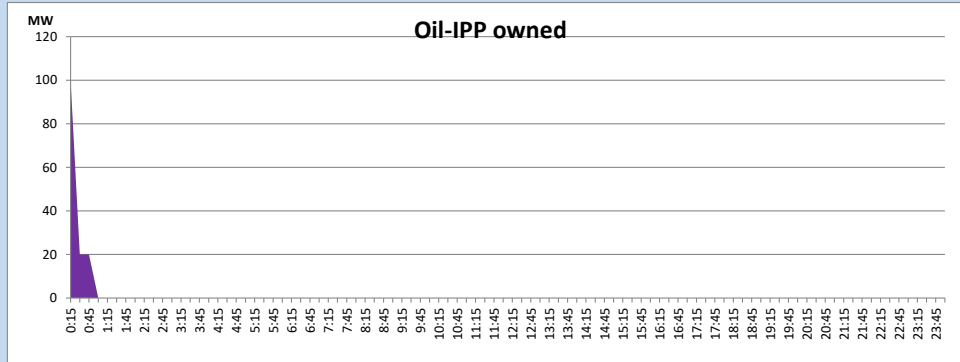
CEB Oil Plant Generation during

April 17, 2024



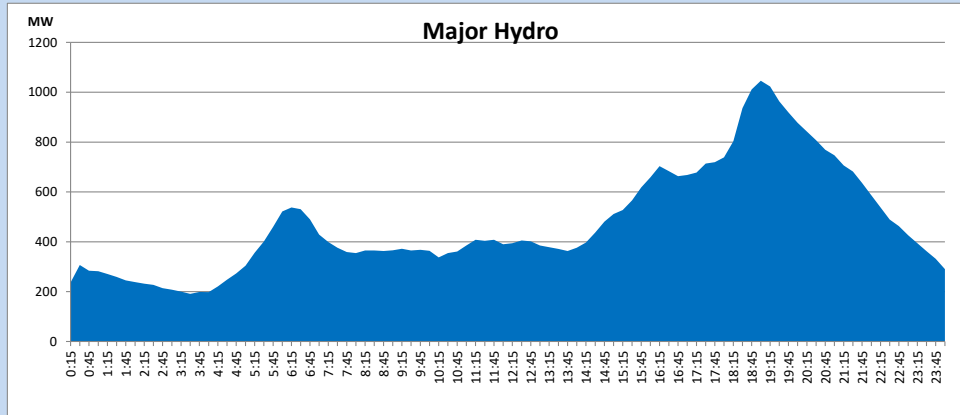
IPP Oil Plant Generation during

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Major Hydro Generation during

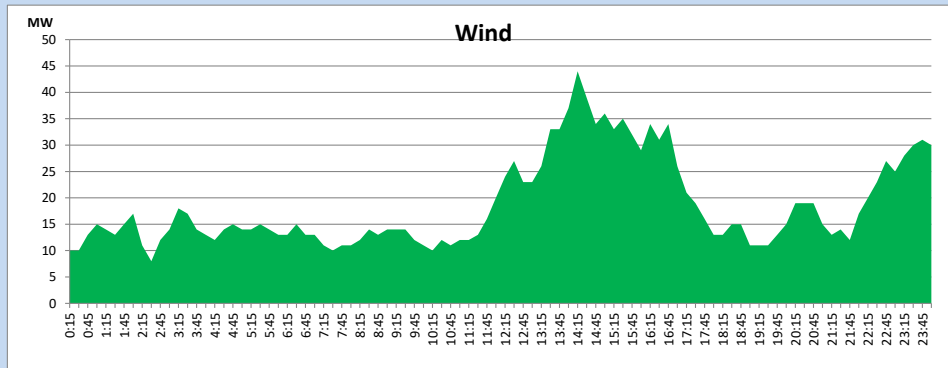
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Wind Generation during

April 17, 2024

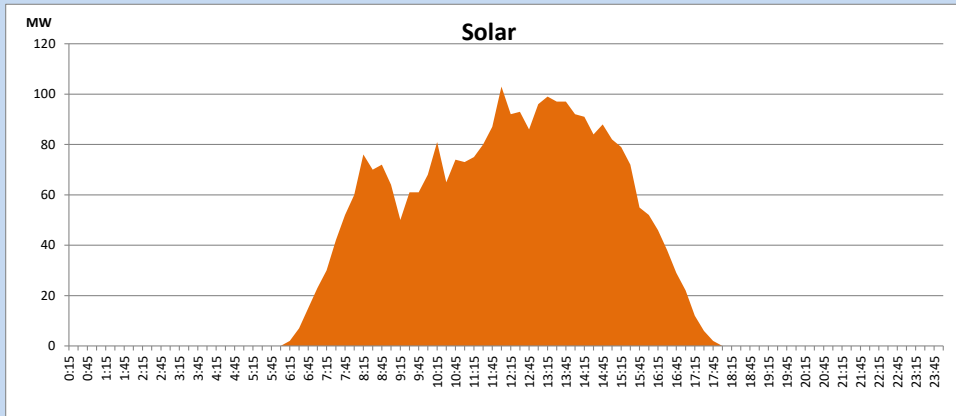
Based on Telemetered Power Stations only



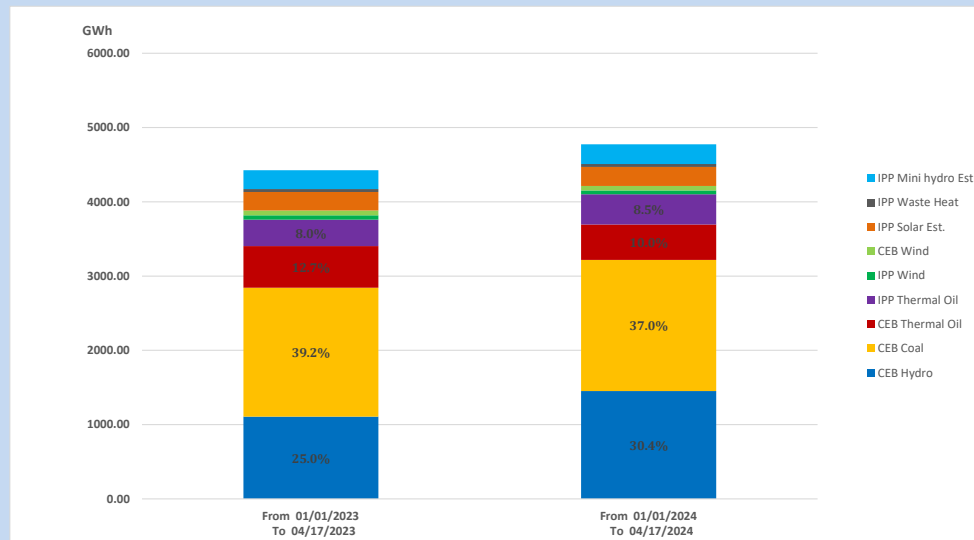
Solar Generation during

April 17, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 04/17/2023
 From 01/01/2024 To 04/17/2024

4426 GWh
 4774 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

Major Incidents reported during the day

April 17, 2024

- 1) Kukule – Mathugama cct 01 tripped from both ends at 16:28hrs due to the operation of distance protection. The cct was restored at 16:41hrs.