

Generation and Reservoirs Statistics

April 19, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

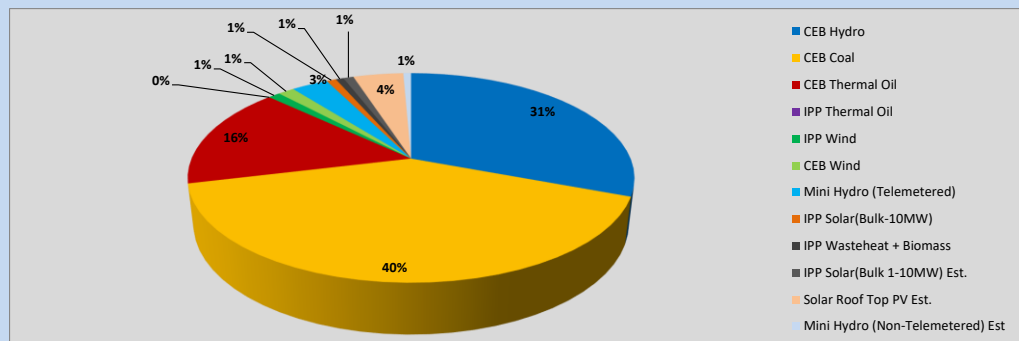


Table 01

	Generation (MWh)
CEB Hydro	14,720
CEB Coal	19,407
CEB Thermal Oil	7,551
IPP Thermal Oil	-
IPP Wind	496
CEB Wind	674
Mini Hydro (Telemetered)	1,516
IPP Solar (Bulk)	401
IPP Waste heat + Biomass	323
Total Generation (Excluding estimated figures)	45,088
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	323
* Estimated IPP Solar PV (Bulk 1-10MW)	423
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	47,914

* 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	216	25.82%
CEB Coal	329	39.24%
CEB Thermal Oil	111	13.25%
IPP Thermal	76	9.12%
SPP Wind	6	0.69%
CEB Wind	6	0.71%
Mini Hydro *	33	3.92%
IPP Solar *	54	6.40%
IPP Waste heat + BMP	7	0.86%
Total	838	

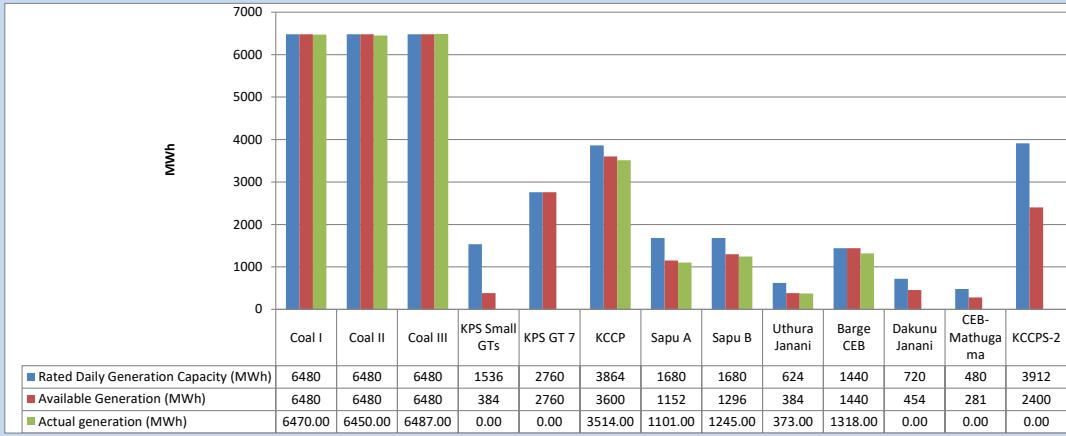
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,480	30.40%
CEB Coal	1,805	37.09%
CEB Thermal Oil	490	10.07%
IPP Thermal	408	8.38%
SPP Wind	52	1.07%
CEB Wind	61	1.25%
Mini Hydro *	268	5.51%
IPP Solar *	263	5.40%
IPP Waste heat	40	0.83%
Total	4,867	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

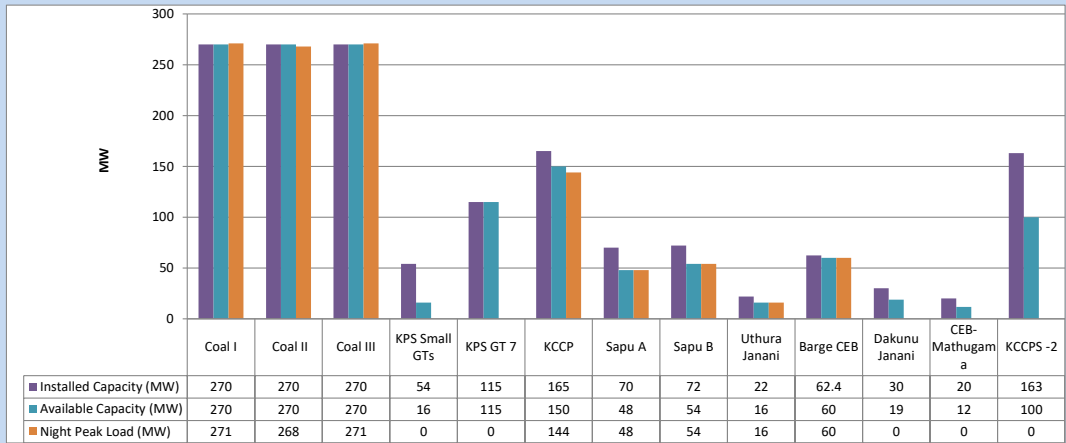
April 19, 2024



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

April 20, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

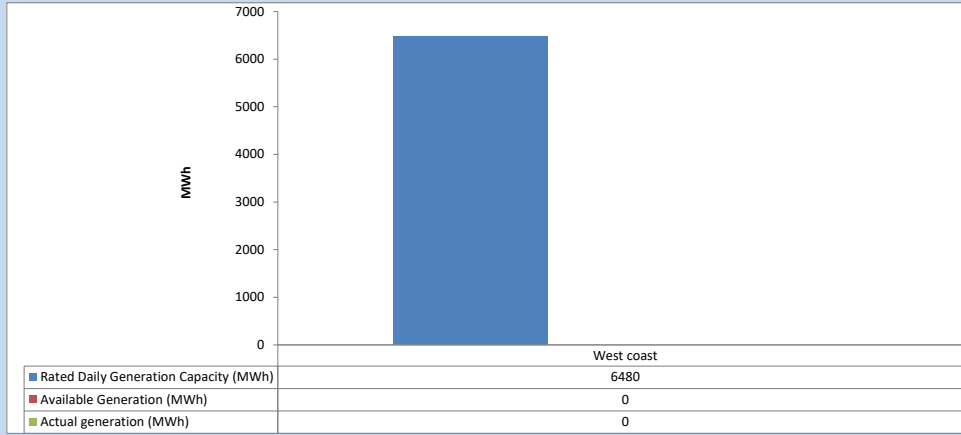


Plant availability is recorded at 6.00 am on

April 20, 2024

5. IPP owned Thermal Plant Dispatch

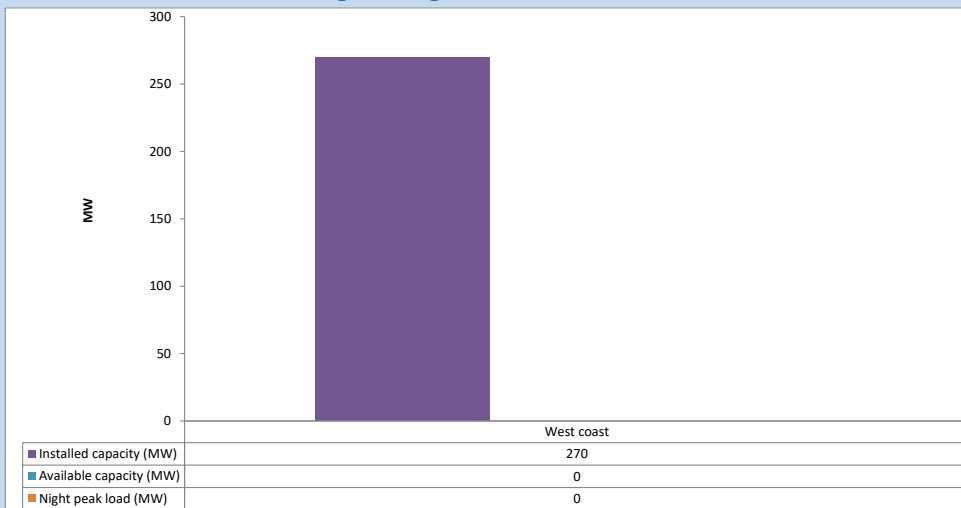
April 19, 2024



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

April 20, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

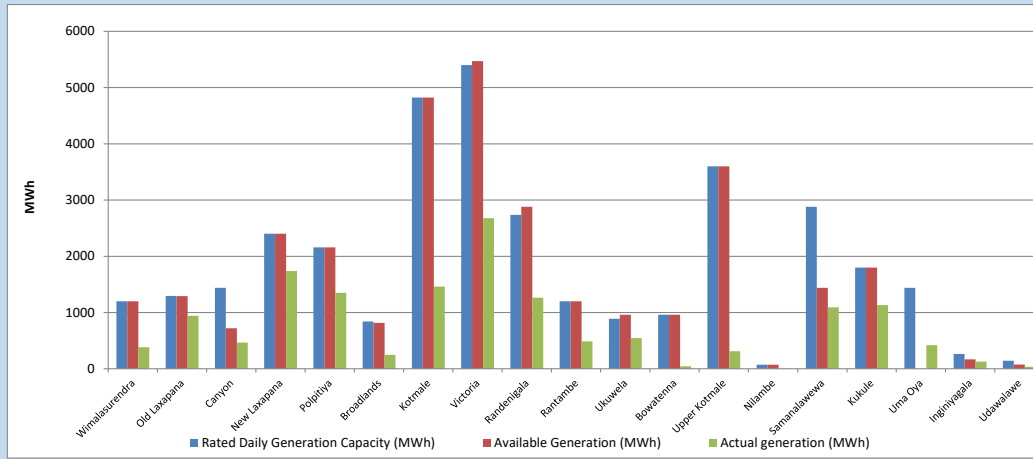


Plant availability is recorded at 6.00 am on

April 20, 2024

7. Major Hydro Plant Dispatch

April 19, 2024

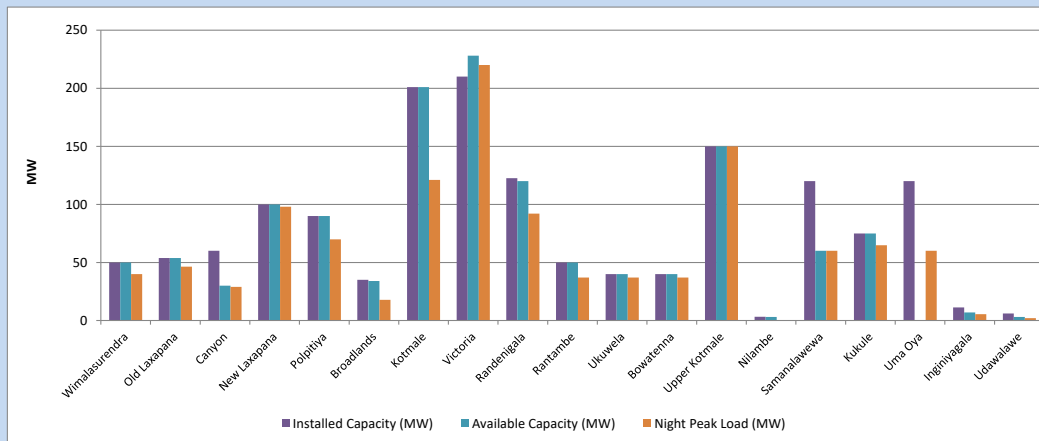


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 20, 2024

8. Major Hydro Plant Loading at Night Peak

April 19, 2024



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

April 20, 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	40	382
Old Laxapana	54	54	46	941
Canyon	60	30	29	464
New Laxapana	100	100	98	1,739
Polpitiya	90	90	70	1,350
Broadlands	35	34	18	248
Kotmale	201	201	121	1,460
Victoria	210	228	220	2,679
Randenigala	123	120	92	1,265
Rantambe	50	50	37	486
Ukuwela	40	40	37	545
Bowatenna	40	40	37	45
Upper Kotmale	150	150	150	313
Nilambe	3	3	0	0
Samanalawewa	120	60	60	1,092
Kukule	75	75	65	1,131
Uma Oya (Testing)	120	0	60	418
Inginiyagala	11	7	5	127
Udawalawe	6	3	2	35
Puttalam Coal I	270	270	271	6,470
Puttalam Coal II	270	270	268	6,450
Puttalam Coal III	270	270	271	6,487
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	144	3,514
Sapugaskanda A	70	48	48	1,101
Sapugaskanda B	72	54	54	1,245
Uthura Janani	22	16	16	373
Barge CEB	62	60	60	1,318
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	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,735	2,446	45,088

Note-

Plant availability is the availability recorded at 6 am on

April 20, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

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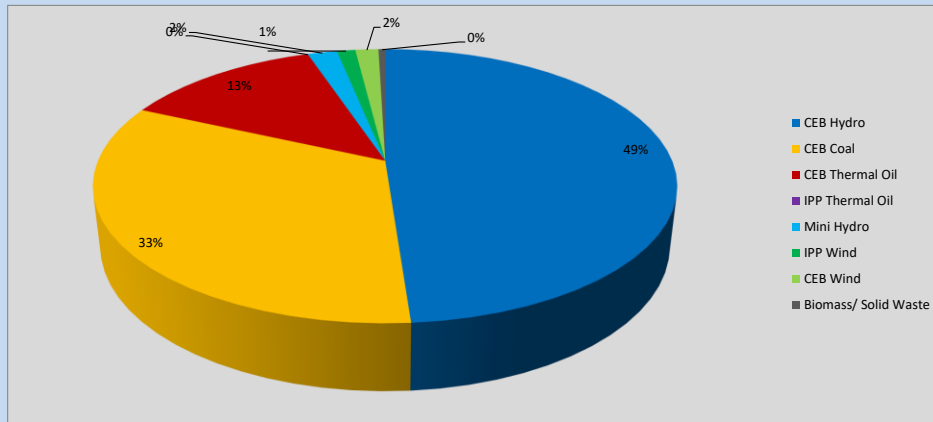


Table 06

CEB Hydro	1201	MW
CEB Coal	810	MW
CEB Thermal Oil	322	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	48	MW
IPP Wind	30	MW
CEB Wind	37.6	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

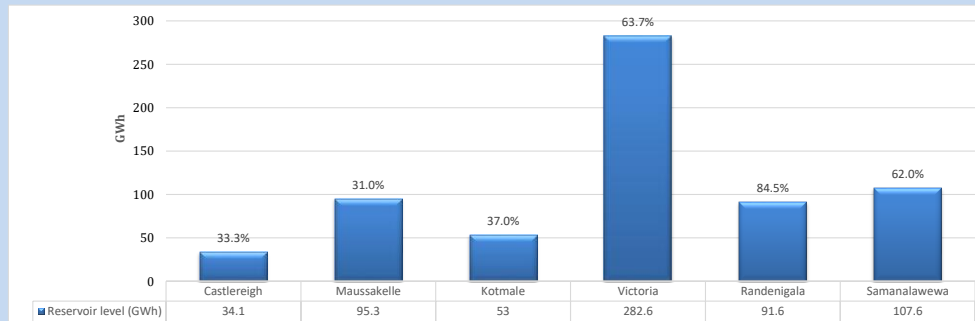
Table 07

Night Peak*	2,460	MW
Day Peak Maximum Demand	2,187	MW
Day Peak Minimum Demand	1,715	MW
Off Peak Minimum Demand	1,476	MW

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

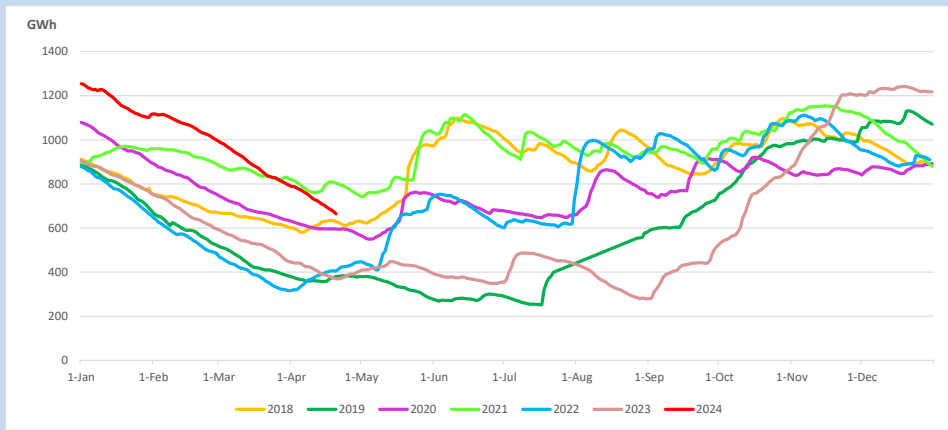
Reservoir Levels -

as at 06.00 Hr on April 20, 2024

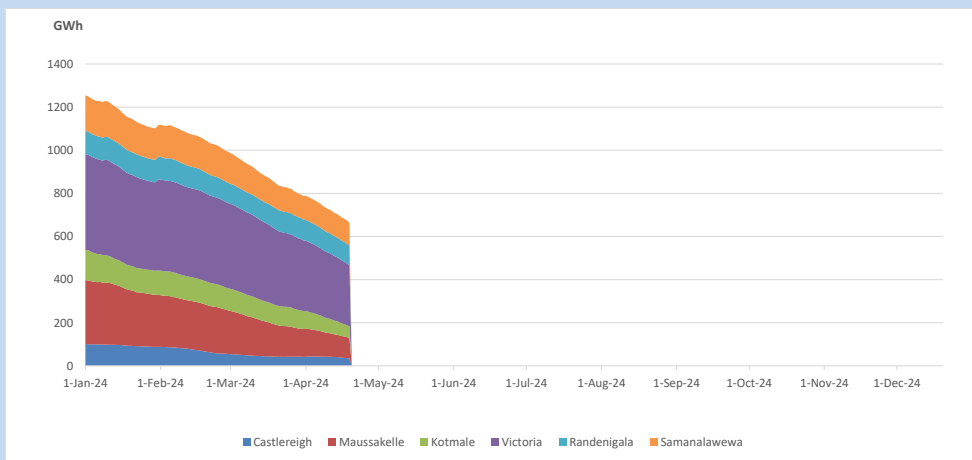


Total Reservoir Level 664.2 GWh
% of Total capacity 51.9%

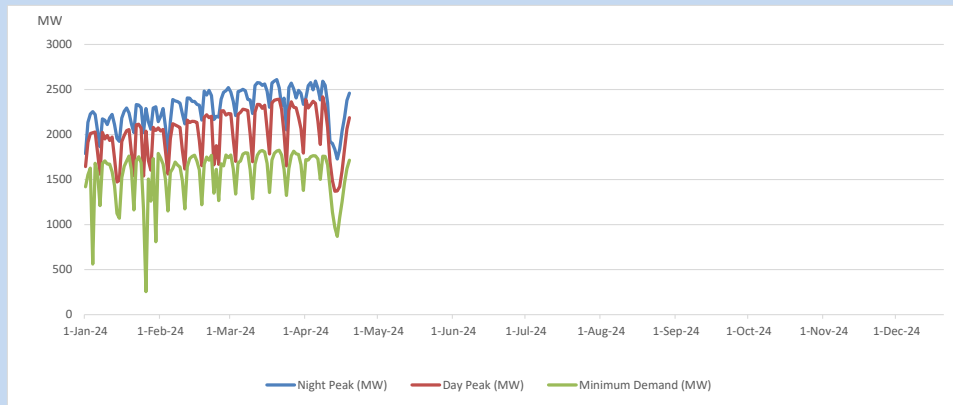
11. Comparison of Total Reservoir Storage Levels with Past Years



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



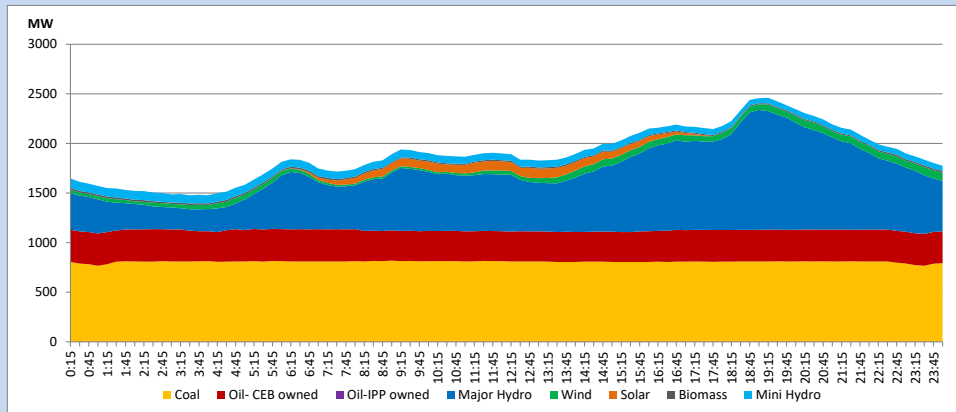
13. Variation of Demand during the current year



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

14. Daily Load Curve

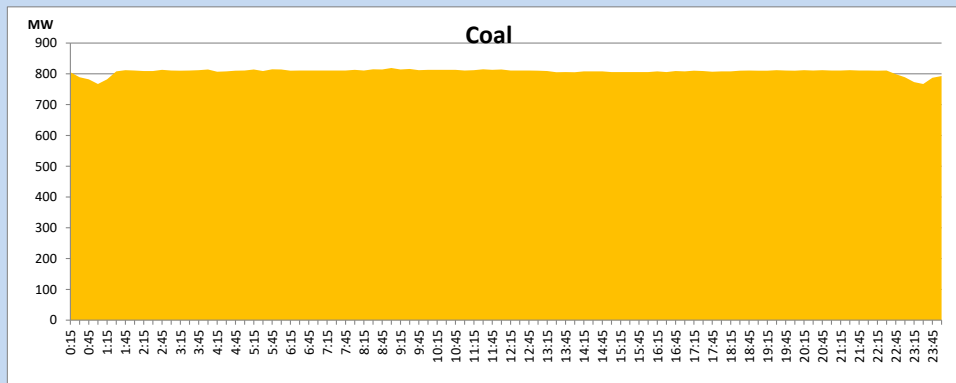
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Solar and wind data is based on Telemetered Power Stations only

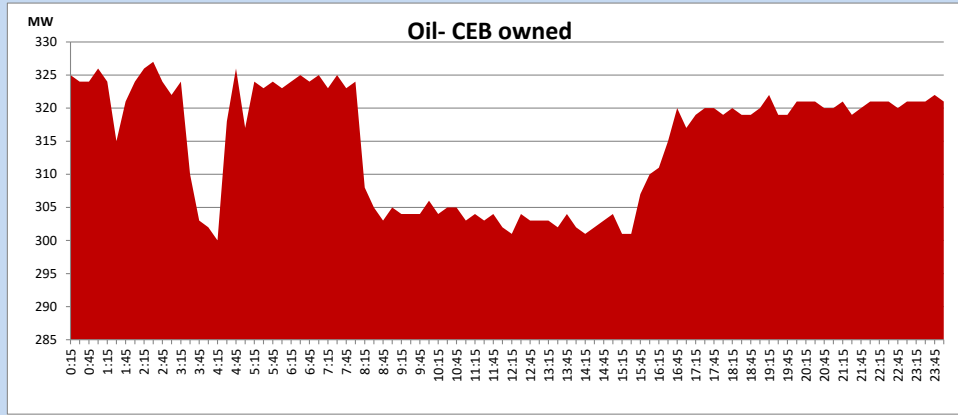
Coal Generation during

April 19, 2024



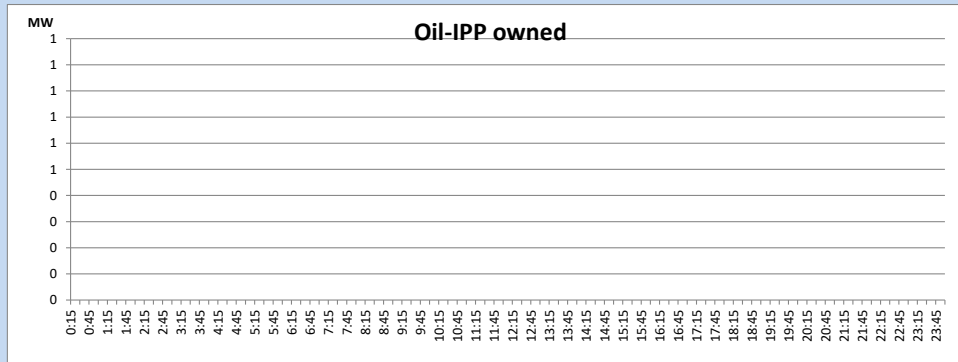
CEB Oil Plant Generation during

April 19, 2024



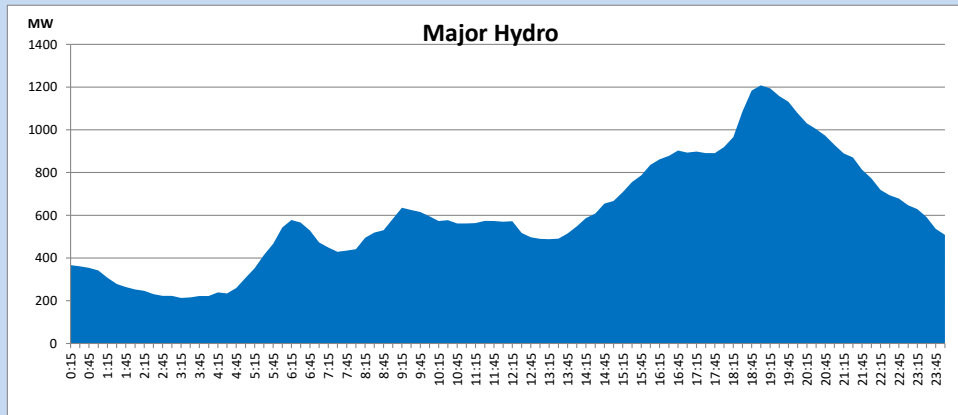
IPP Oil Plant Generation during

April 19, 2024



Major Hydro Generation during

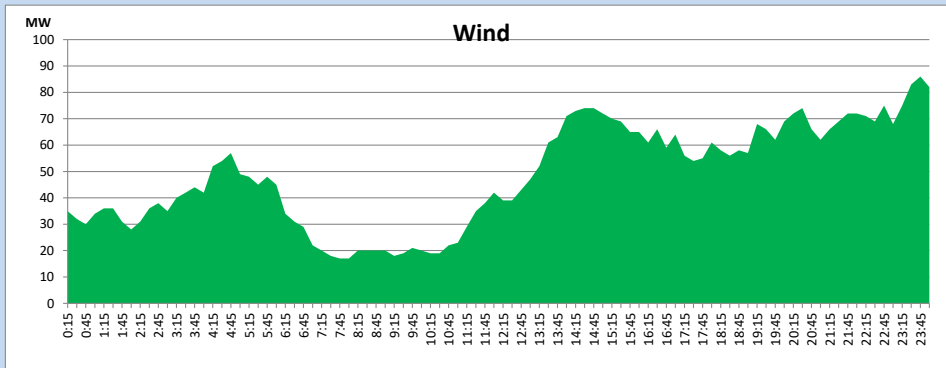
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Wind Generation during

April 19, 2024

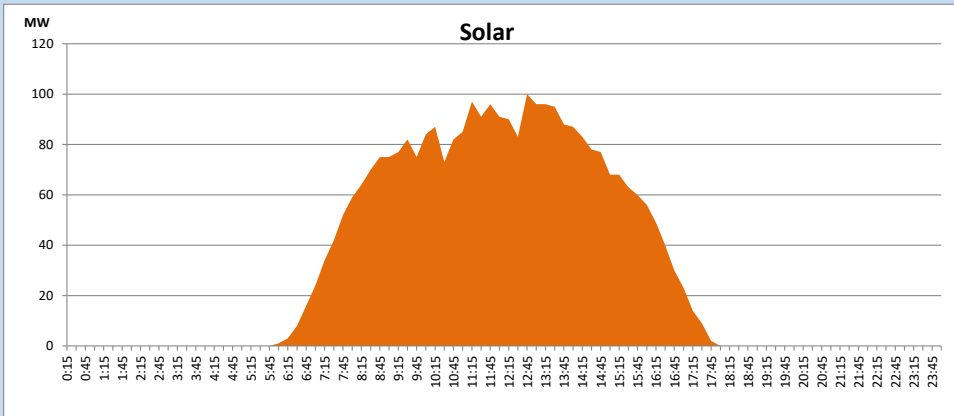
Based on Telemetered Power Stations only



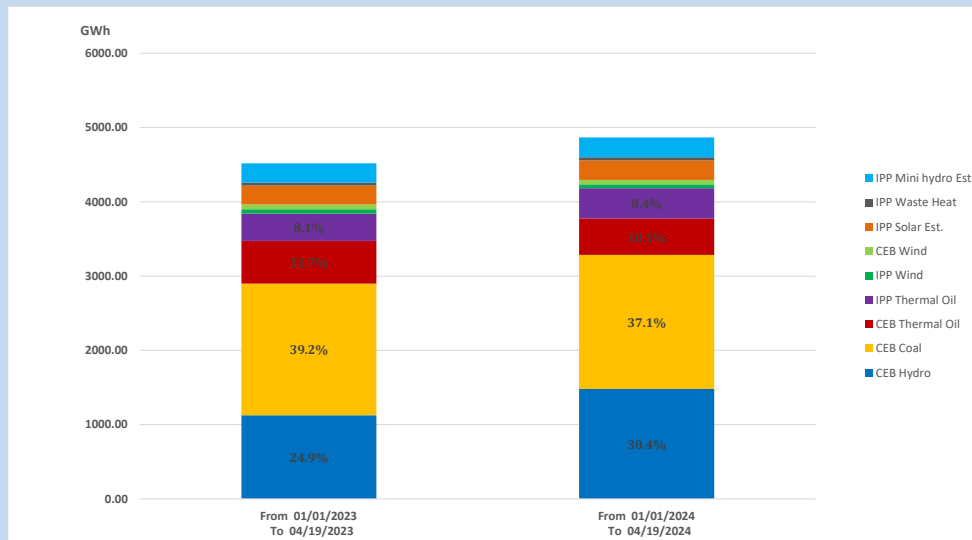
Solar Generation during

April 19, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 04/19/2023
 From 01/01/2024 To 04/19/2024

4517 GWh
 4867 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 19, 2024

- 1) Uma Oya - Monaragala 132kV cct tripped only from Uma Oya end at 11:36hrs due to the operation of differential protection causing Monaragala GSS to be dead (Monaragala - Badulla 132kV cct was switched off for maintenance work). Uma Oya - Monaragala cct and Monaragala GSS all feeders were normalized by 12:04hrs.
- 2) Kelanithissa 132/33kV T/F 02 which was manually switched off on 18/04/2024, was normalized by 12:05hrs.
- 3) New Kerawalapitiya GSS - Sobadhanavi PS 220kV GT cable energized for the first time for soak test from Line 1 Bay 216 of New Kerawalapitiya GSSat 21:00hrs.