

Generation and Reservoirs Statistics

April 26, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

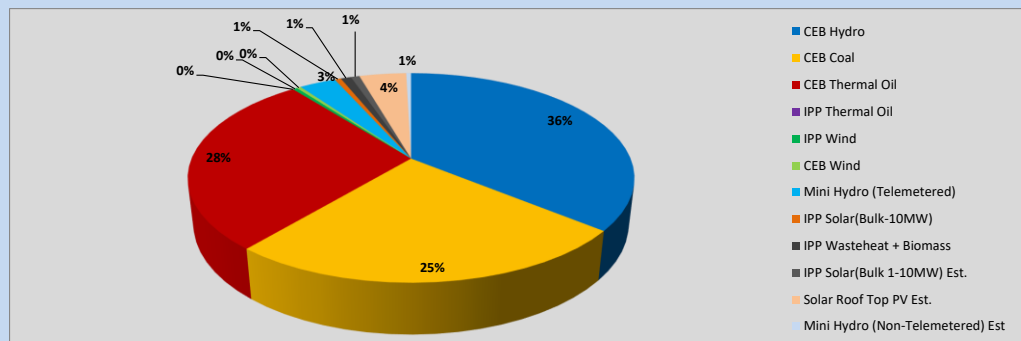


Table 01

	Generation (MWh)
CEB Hydro	18,374
CEB Coal	12,913
CEB Thermal Oil	14,481
IPP Thermal Oil	-
IPP Wind	199
CEB Wind	190
Mini Hydro (Telemetered)	1,621
IPP Solar (Bulk)	282
IPP Waste heat + Biomass	459
Total Generation (Excluding estimated figures)	48,519
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	215
* Estimated IPP Solar PV (Bulk 1-10MW)	384
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	51,198

* 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	326	27.86%
CEB Coal	427	36.49%
CEB Thermal Oil	196	16.75%
IPP Thermal	76	6.53%
SPP Wind	8	0.64%
CEB Wind	7	0.63%
Mini Hydro *	46	3.93%
IPP Solar *	73	6.27%
IPP Waste heat + BMP	10	0.89%
Total	1,169	

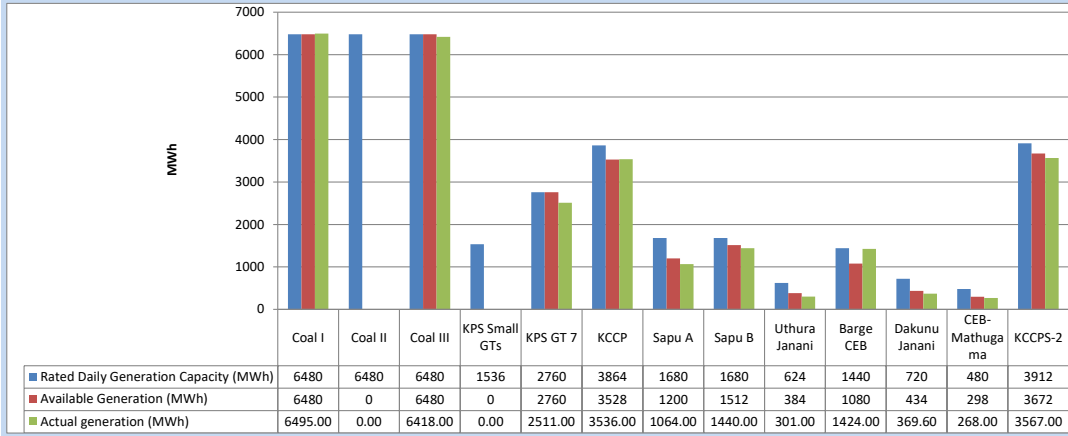
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,587	30.39%
CEB Coal	1,901	36.39%
CEB Thermal Oil	575	11.00%
IPP Thermal	408	7.80%
SPP Wind	57	1.08%
CEB Wind	62	1.19%
Mini Hydro *	301	5.76%
IPP Solar *	285	5.45%
IPP Waste heat	48	0.92%
Total	5,223	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

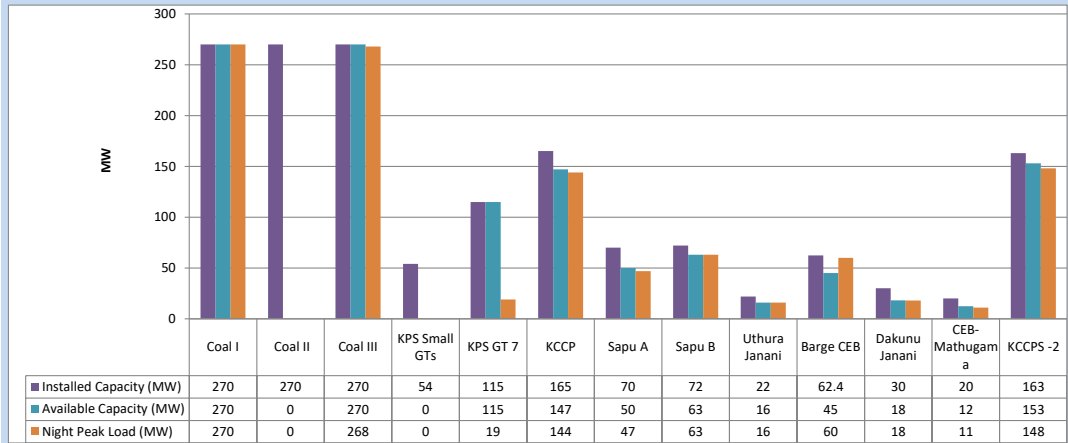
April 26, 2024



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

April 27, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

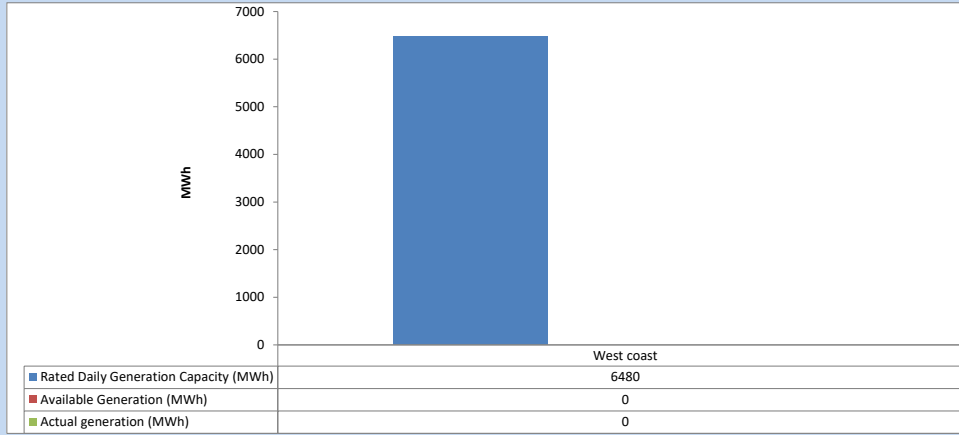


Plant availability is recorded at 6.00 am on

April 27, 2024

5. IPP owned Thermal Plant Dispatch

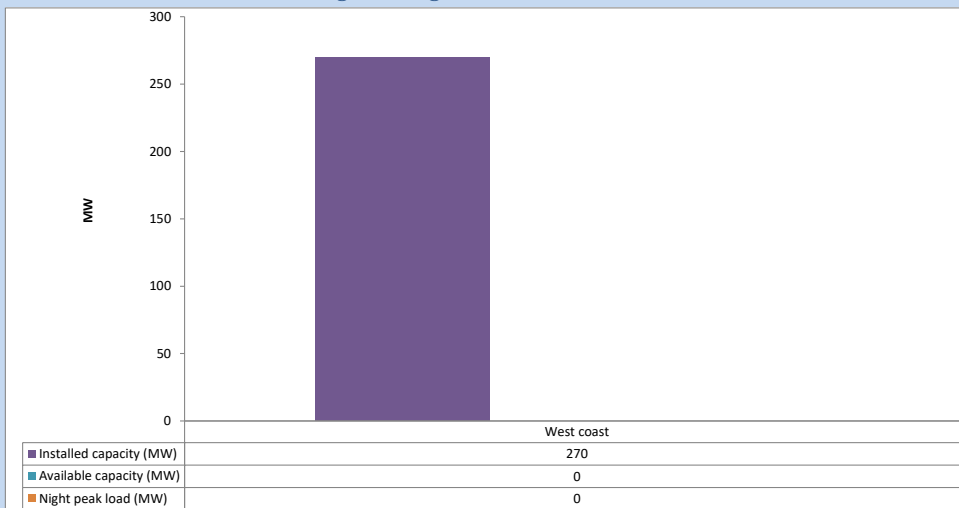
April 26, 2024



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

April 27, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

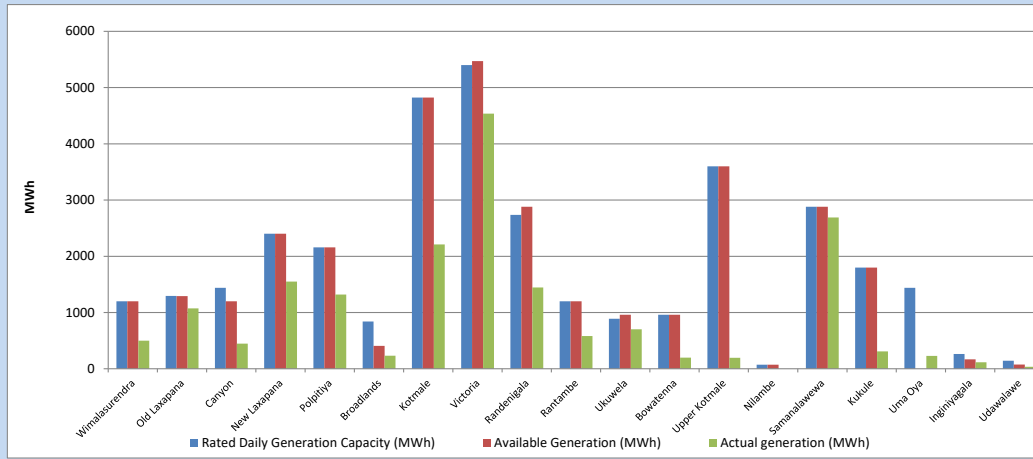


Plant availability is recorded at 6.00 am on

April 27, 2024

7. Major Hydro Plant Dispatch

April 26, 2024

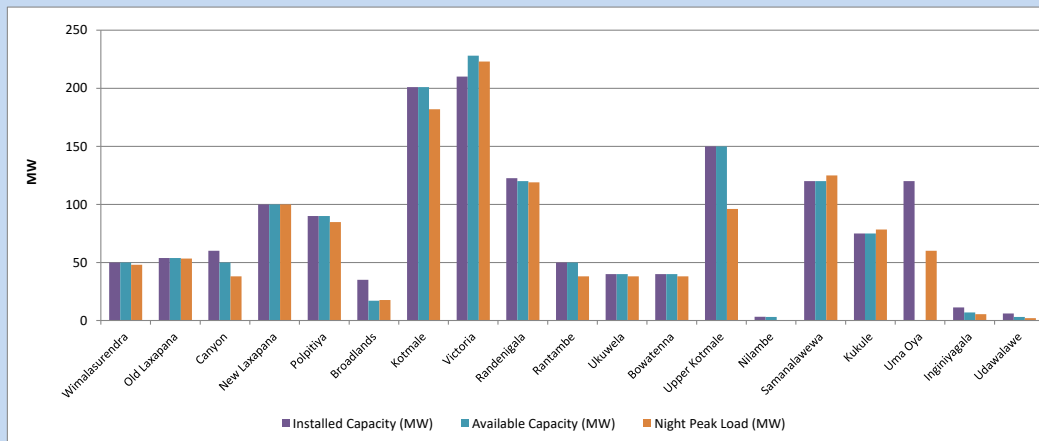


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 27, 2024

8. Major Hydro Plant Loading at Night Peak

April 26, 2024



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

April 27, 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	48	498
Old Laxapana	54	54	53	1,075
Canyon	60	50	38	447
New Laxapana	100	100	100	1,551
Polpitiya	90	90	85	1,320
Broadlands	35	17	18	233
Kotmale	201	201	182	2,210
Victoria	210	228	223	4,538
Randenigala	123	120	119	1,447
Rantambe	50	50	38	581
Ukuwela	40	40	38	702
Bowatenna	40	40	38	198
Upper Kotmale	150	150	96	195
Nilambe	3	3	0	0
Samanalawewa	120	120	125	2,691
Kukule	75	75	78	309
Uma Oya (Testing)	120	0	60	229
Inginiyagala	11	7	5	115
Udawalawe	6	3	2	36
Puttalam Coal I	270	270	270	6,495
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	268	6,418
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	19	2,511
KCCP	165	147	144	3,536
Sapugaskanda A	70	50	47	1,064
Sapugaskanda B	72	63	63	1,440
Uthura Janani	22	16	16	301
Barge CEB	62	45	60	1,424
CEB-Hambantota	30	18	18	370
CEB-Mathugama	20	12	11	268
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	148	3,567
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,557	2,503	48,520

Note-

Plant availability is the availability recorded at 6 am on

April 27, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 26, 2024

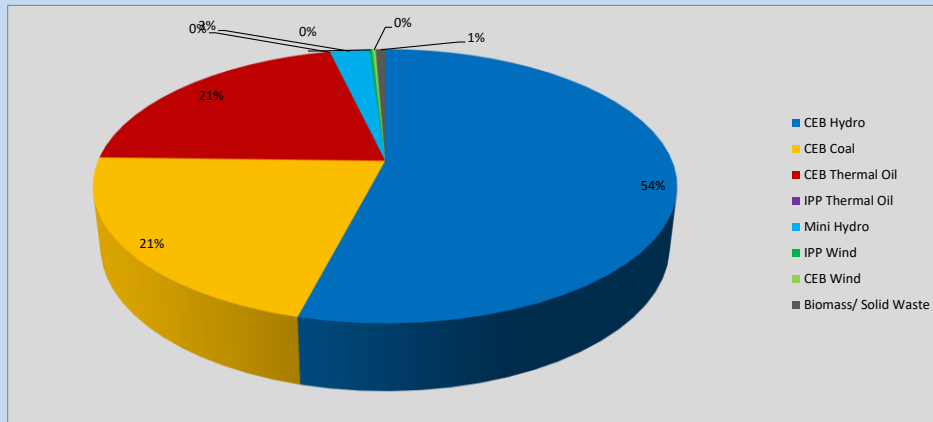


Table 06

CEB Hydro	1359	MW
CEB Coal	538	MW
CEB Thermal Oil	526	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	65	MW
IPP Wind	5.7	MW
CEB Wind	5.2	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

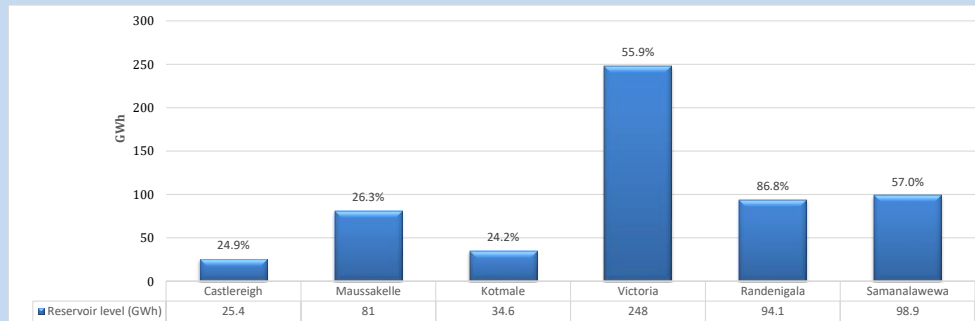
Table 07

Night Peak*	2,515	MW
Day Peak Maximum Demand	2,381	MW
Day Peak Minimum Demand	1,770	MW
Off Peak Minimum Demand	1,623	MW

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

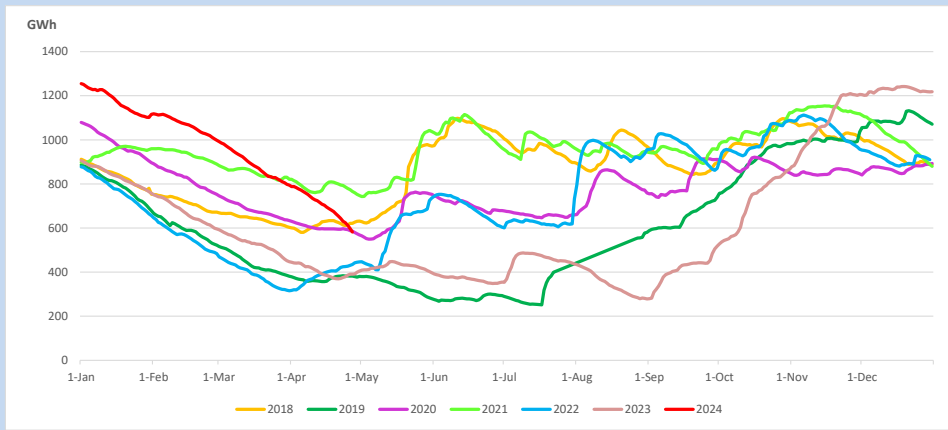
Reservoir Levels -

as at 06.00 Hr on April 27, 2024

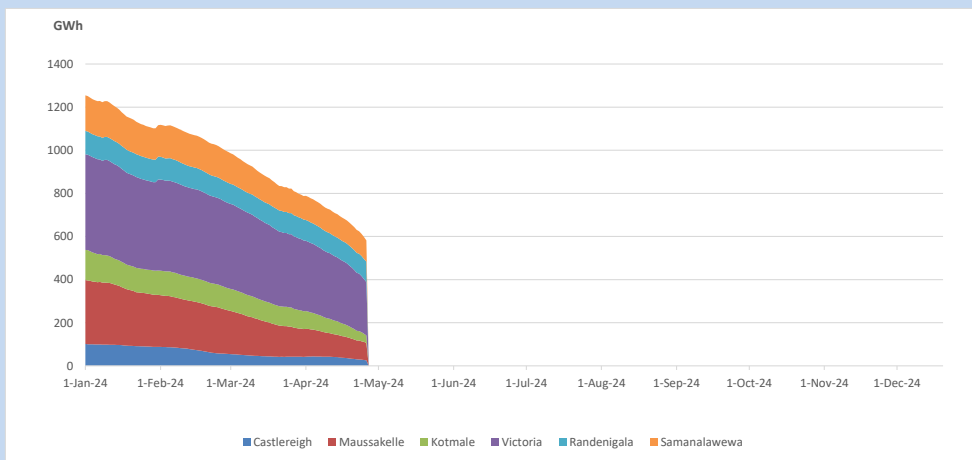


Total Reservoir Level 582 GWh
% of Total capacity 45.5%

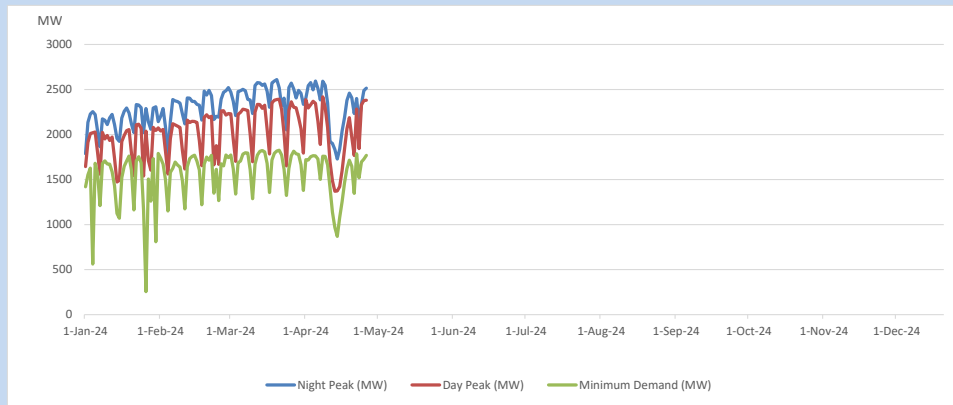
11. Comparison of Total Reservoir Storage Levels with Past Years



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



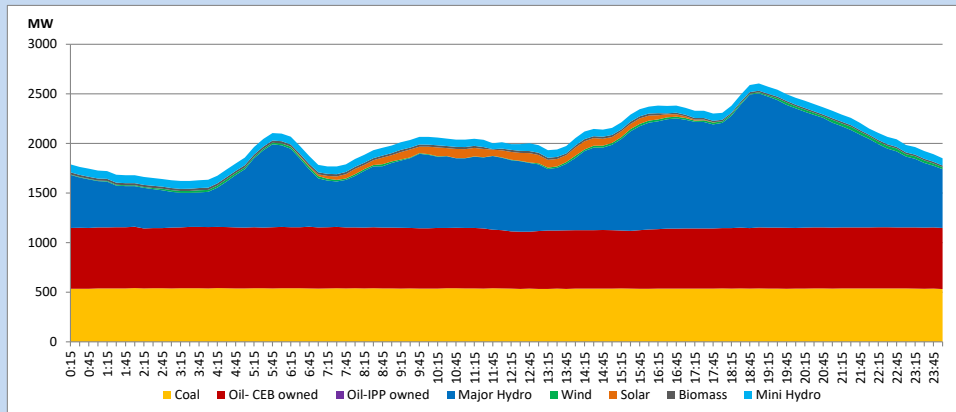
13. Variation of Demand during the current year



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

14. Daily Load Curve

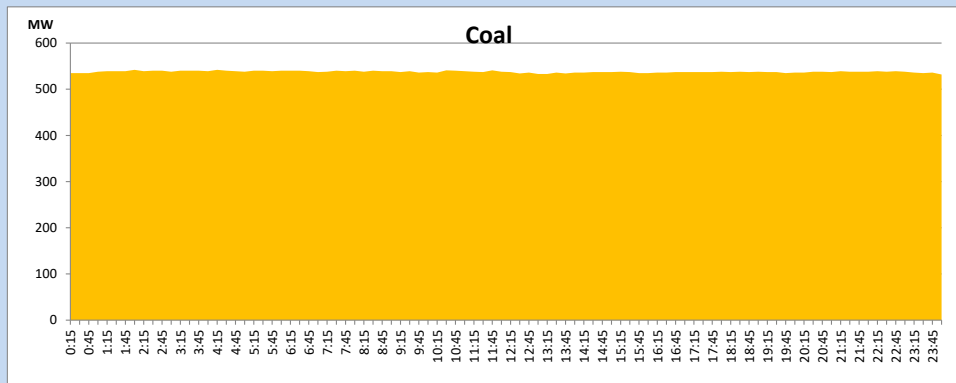
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Solar and wind data is based on Telemetered Power Stations only

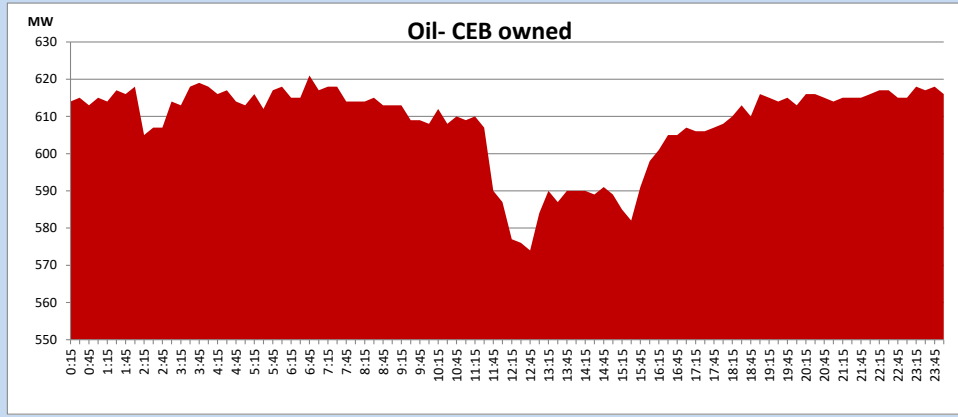
Coal Generation during

April 26, 2024



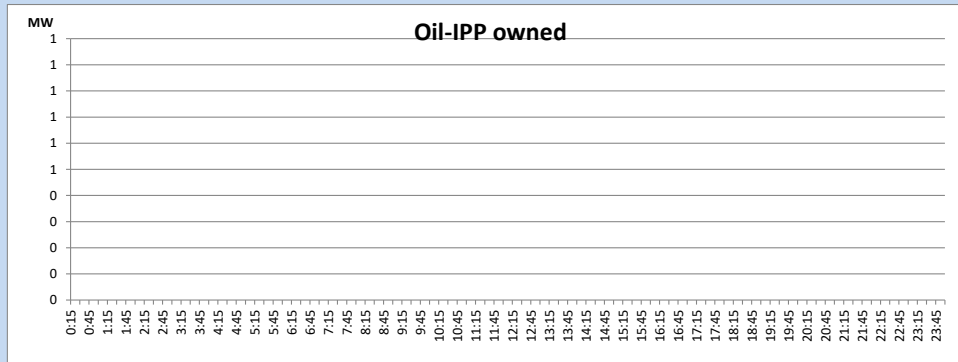
CEB Oil Plant Generation during

April 26, 2024



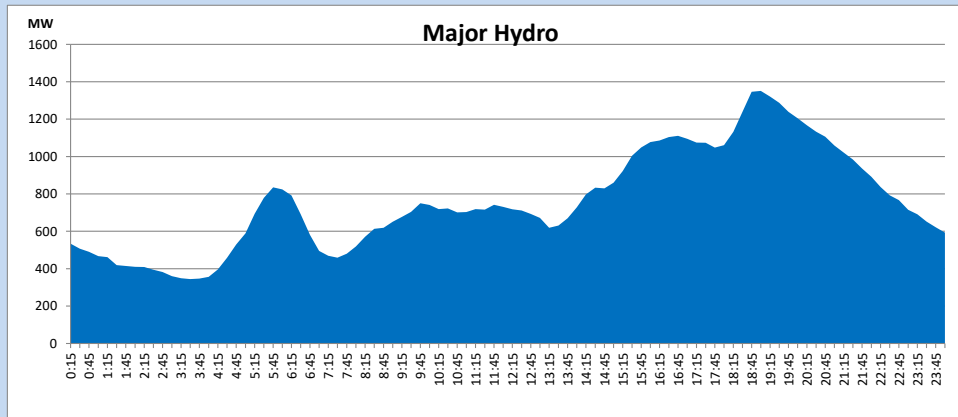
IPP Oil Plant Generation during

April 26, 2024



Major Hydro Generation during

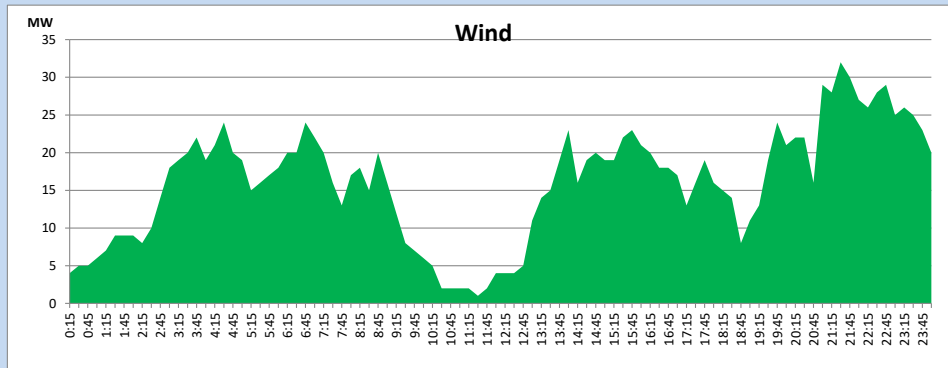
April 26, 2024



Wind Generation during

April 26, 2024

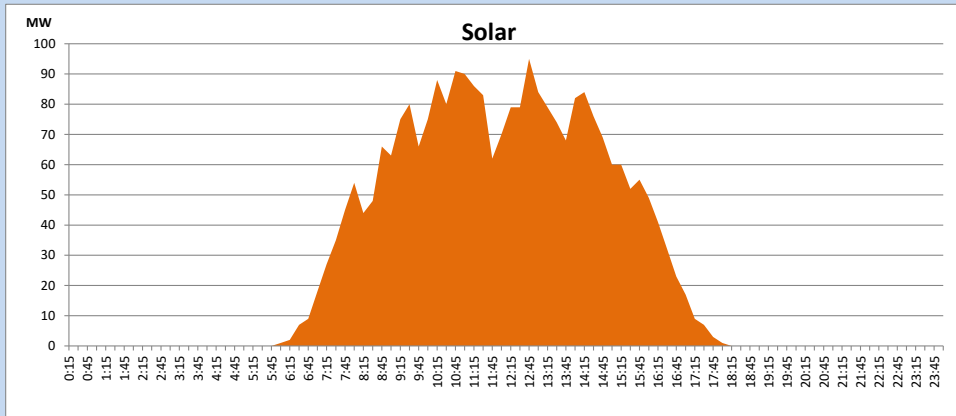
Based on Telemetered Power Stations only



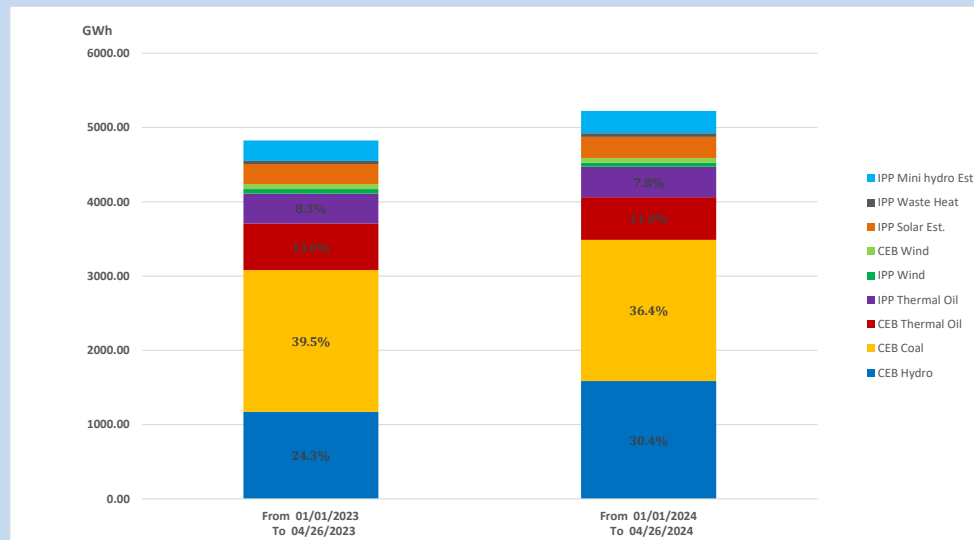
Solar Generation during

April 26, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 04/26/2023
 From 01/01/2024 To 04/26/2024

4826 GWh
 5223 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 26, 2024

- 1) New laxapana unit 01 which made a forced shutdown on 25.04.2024 , resumed generation at 11:10hrs.
- 2) Uthuru Janani PS tripped at 11:32hrs rejecting 16MW from the system at 11:32hrs due to incoming supply failure. The plant was resumed generation at 15:47hrs.
- 3) Randenigala unit 02 tripped at 21:06hrs rejecting 58MW from the system due to a DC fault. Unit 02 resumed generation at 22:36hrs.
- 4) The recorded maximum generation occurred today as 51.20GWh.