

Generation and Reservoirs Statistics

April 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

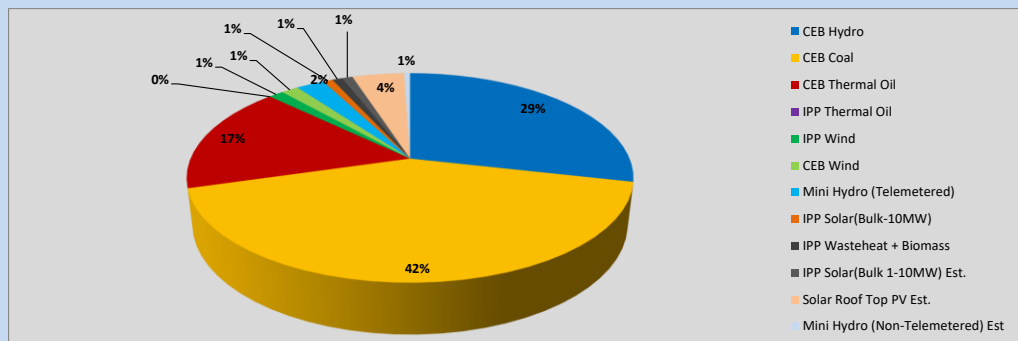


Table 01

	Generation (MWh)
CEB Hydro	13,206
CEB Coal	19,430
CEB Thermal Oil	7,702
IPP Thermal Oil	-
IPP Wind	595
CEB Wind	693
Mini Hydro (Telemetered)	1,123
IPP Solar (Bulk)	388
IPP Waste heat + Biomass	405
Total Generation (Excluding estimated figures)	43,542
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	239
* Estimated IPP Solar PV (Bulk 1-10MW)	422
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	46,283

* 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	230	25.96%
CEB Coal	348	39.38%
CEB Thermal Oil	119	13.43%
IPP Thermal	76	8.64%
SPP Wind	6	0.72%
CEB Wind	7	0.75%
Mini Hydro *	34	3.87%
IPP Solar *	57	6.39%
IPP Waste heat + BMP	8	0.86%
Total	884	

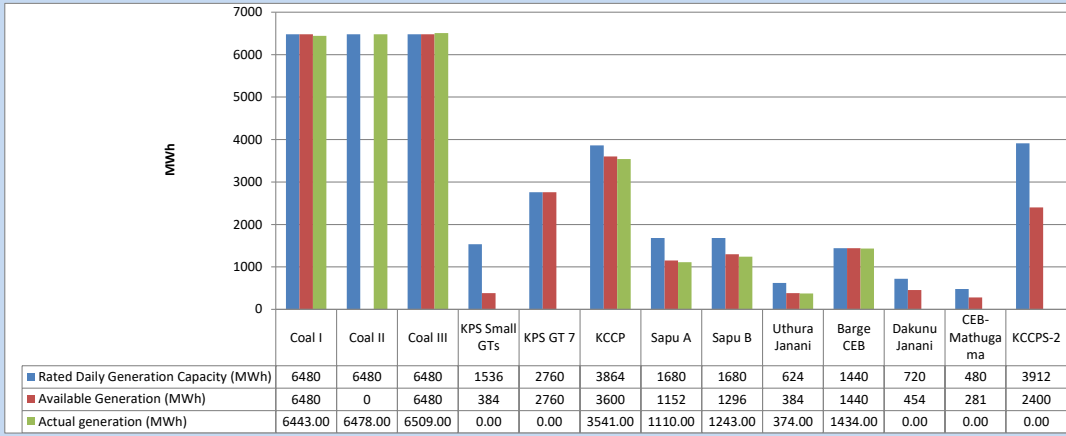
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,493	30.38%
CEB Coal	1,825	37.14%
CEB Thermal Oil	498	10.13%
IPP Thermal	408	8.30%
SPP Wind	53	1.07%
CEB Wind	62	1.26%
Mini Hydro *	269	5.48%
IPP Solar *	266	5.41%
IPP Waste heat	41	0.83%
Total	4,914	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

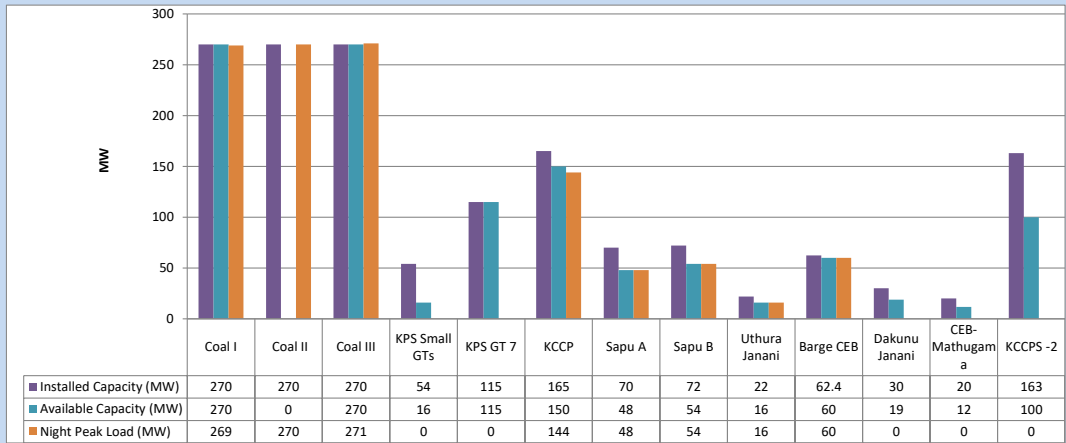
April 20, 2024



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

April 21, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

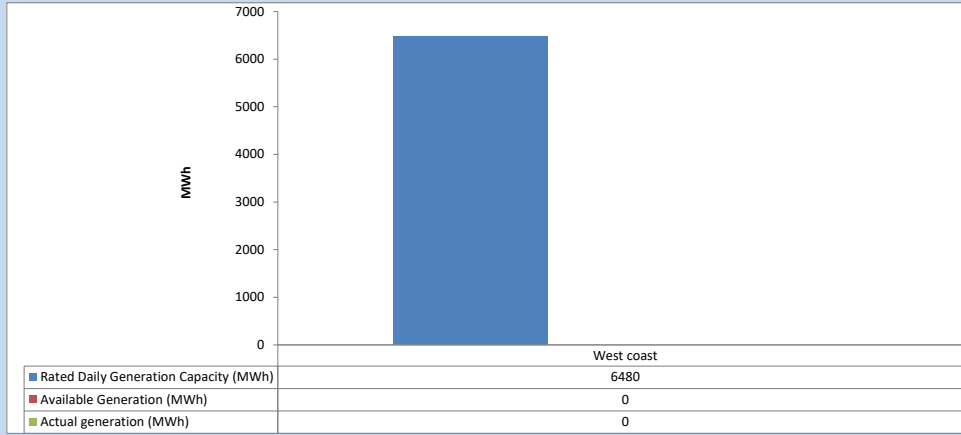


Plant availability is recorded at 6.00 am on

April 21, 2024

5. IPP owned Thermal Plant Dispatch

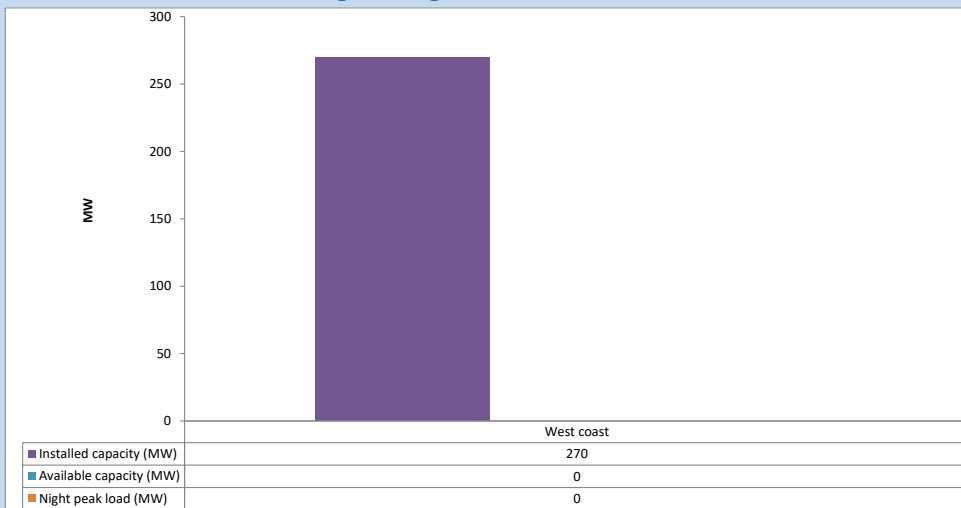
April 20, 2024



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

April 21, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

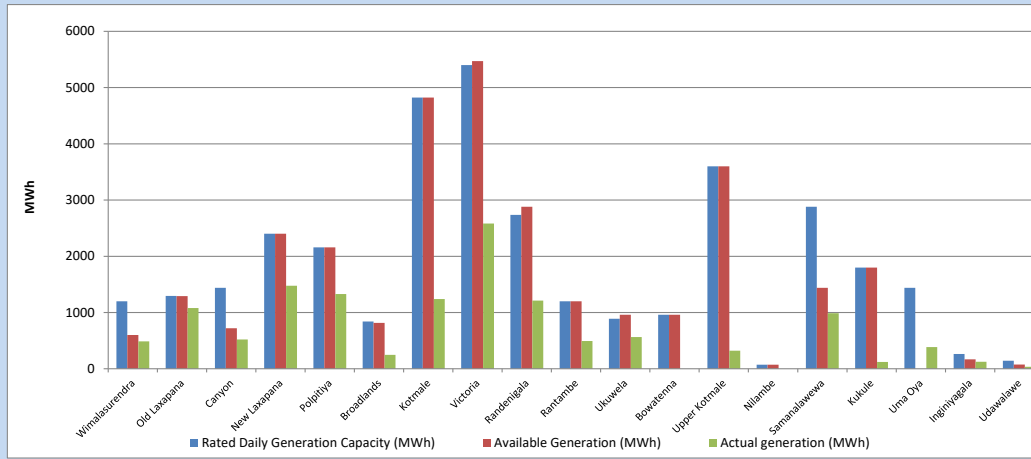


Plant availability is recorded at 6.00 am on

April 21, 2024

7. Major Hydro Plant Dispatch

April 20, 2024

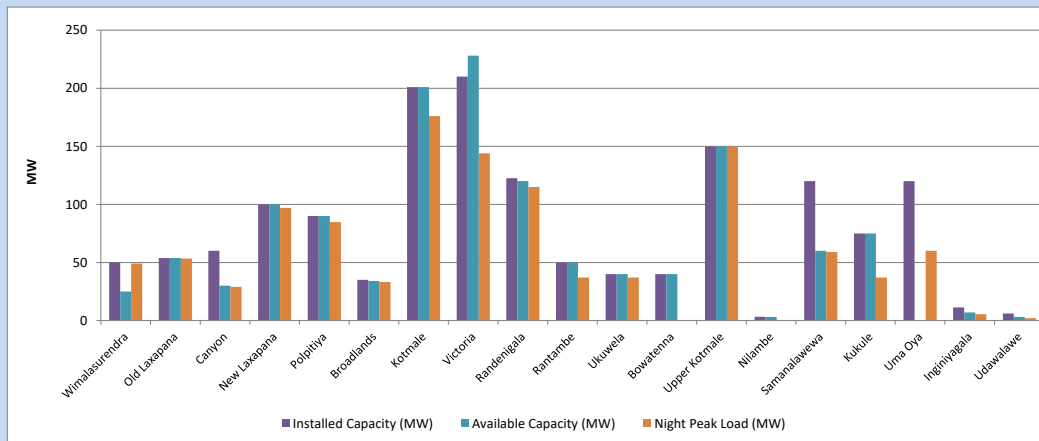


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 21, 2024

8. Major Hydro Plant Loading at Night Peak

April 20, 2024



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

April 21, 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	25	49	487
Old Laxapana	54	54	53	1,079
Canyon	60	30	29	520
New Laxapana	100	100	97	1,476
Polpitiya	90	90	85	1,330
Broadlands	35	34	33	247
Kotmale	201	201	176	1,240
Victoria	210	228	144	2,582
Randenigala	123	120	115	1,213
Rantambe	50	50	37	494
Ukuwela	40	40	37	565
Bowatenna	40	40	0	0
Upper Kotmale	150	150	150	320
Nilambe	3	3	0	0
Samanalawewa	120	60	59	987
Kukule	75	75	37	121
Uma Oya (Testing)	120	0	60	384
Inginiyagala	11	7	5	125
Udawalawe	6	3	2	36
Puttalam Coal I	270	270	269	6,443
Puttalam Coal II	270	0	270	6,478
Puttalam Coal III	270	270	271	6,509
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	144	3,541
Sapugaskanda A	70	48	48	1,110
Sapugaskanda B	72	54	54	1,243
Uthura Janani	22	16	16	374
Barge CEB	62	60	60	1,434
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	2,440	2,396	43,542

Note-

Plant availability is the availability recorded at 6 am on

April 21, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 20, 2024

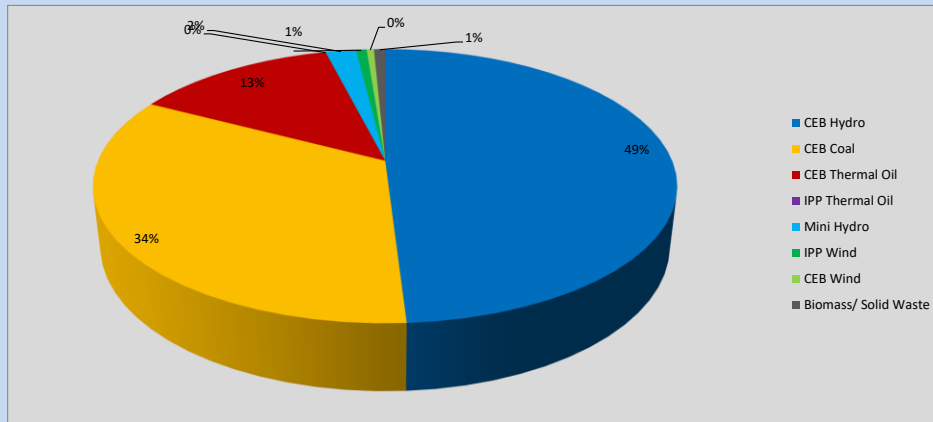


Table 06

CEB Hydro	1180	MW
CEB Coal	810	MW
CEB Thermal Oil	322	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	49	MW
IPP Wind	16.9	MW
CEB Wind	11.6	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

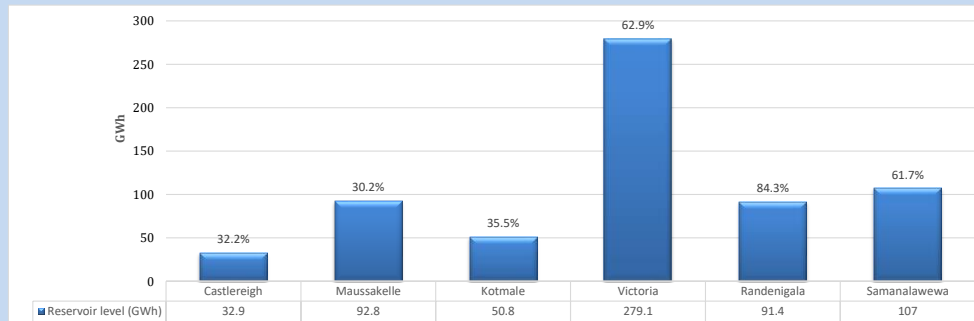
Table 07

Night Peak*	2,408	MW
Day Peak Maximum Demand	1,971	MW
Day Peak Minimum Demand	1,649	MW
Off Peak Minimum Demand	1,552	MW

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

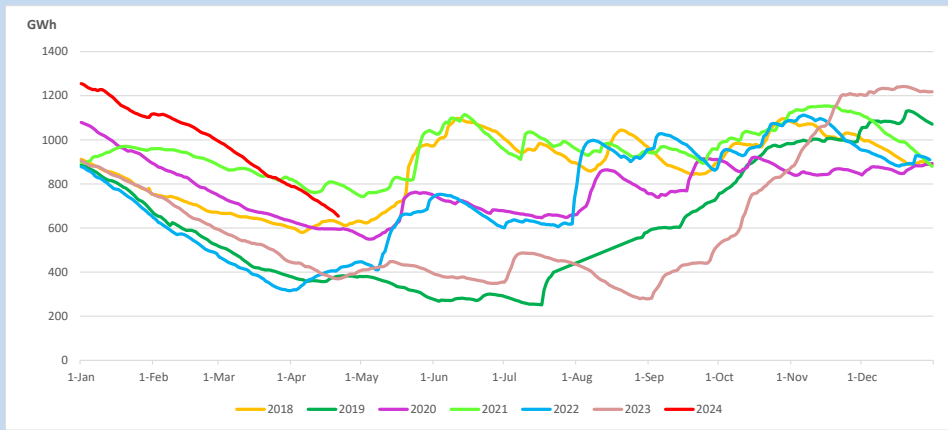
Reservoir Levels -

as at 06.00 Hr on April 21, 2024

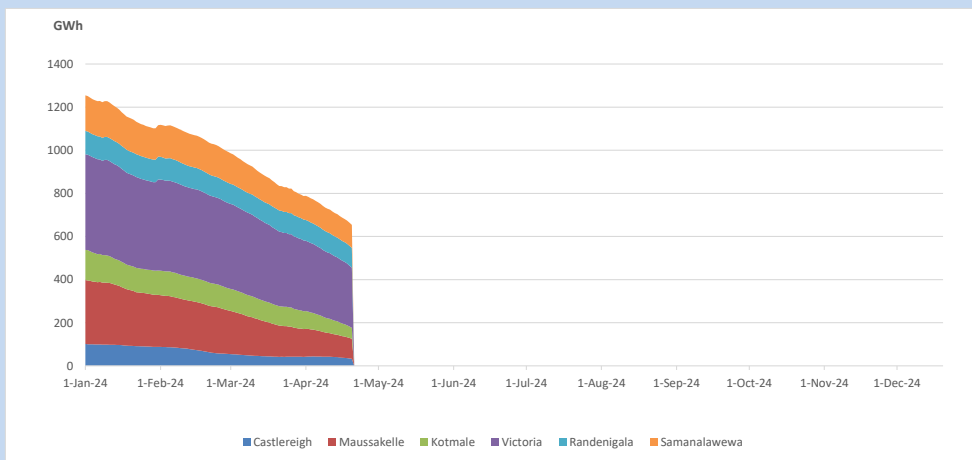


Total Reservoir Level 654 GWh
% of Total capacity 51.2%

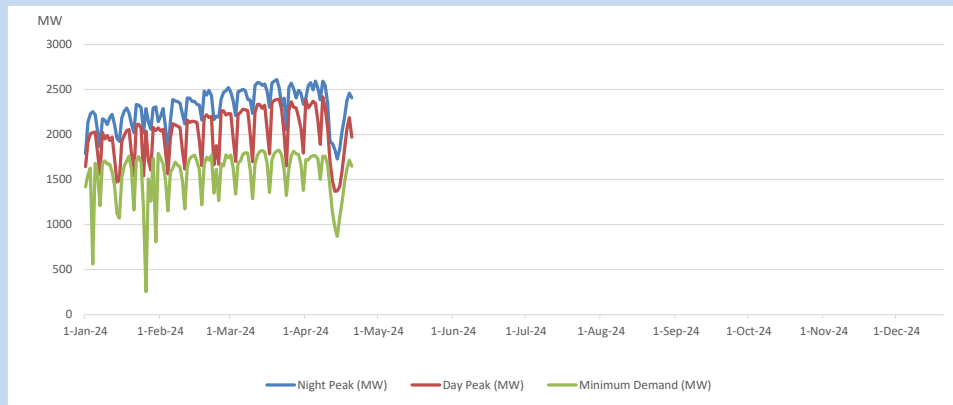
11. Comparison of Total Reservoir Storage Levels with Past Years



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



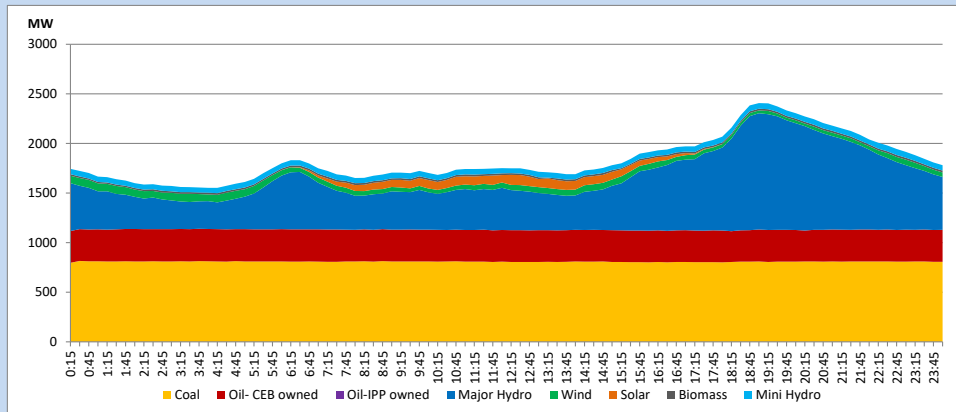
13. Variation of Demand during the current year



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

14. Daily Load Curve

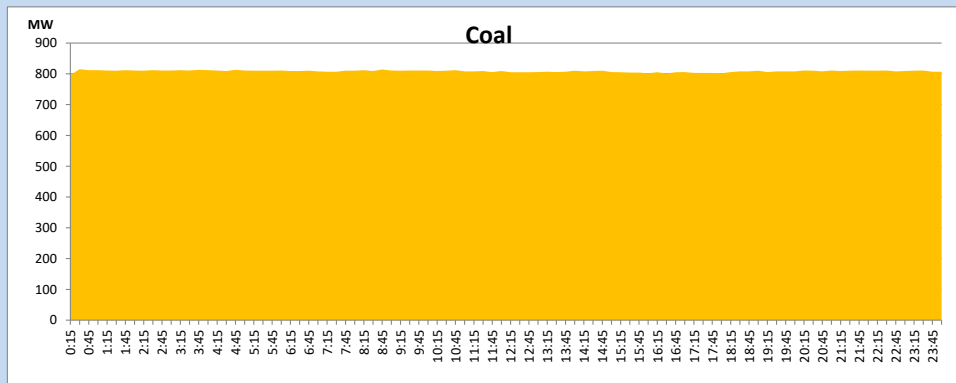
April 20, 2024



Solar and wind data is based on Telemetered Power Stations only

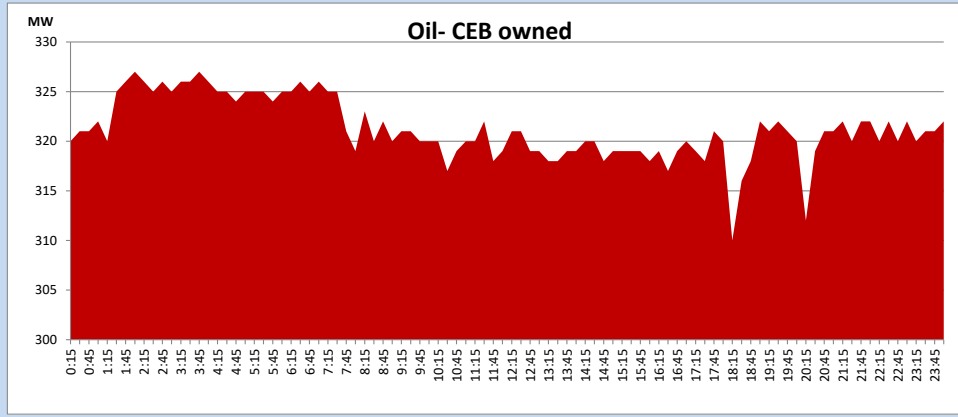
Coal Generation during

April 20, 2024



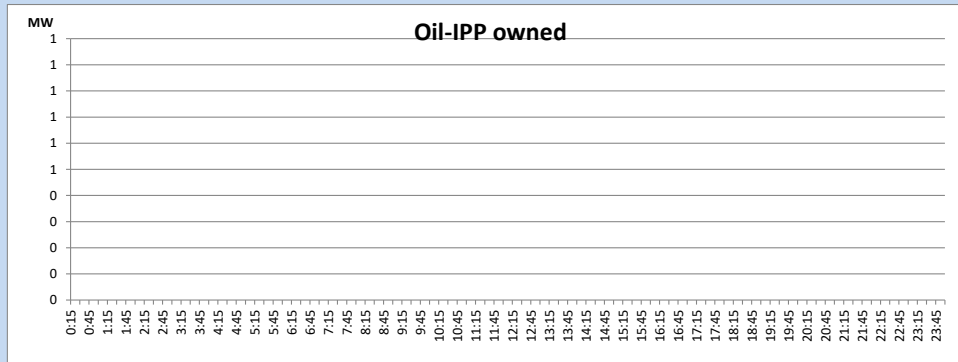
CEB Oil Plant Generation during

April 20, 2024



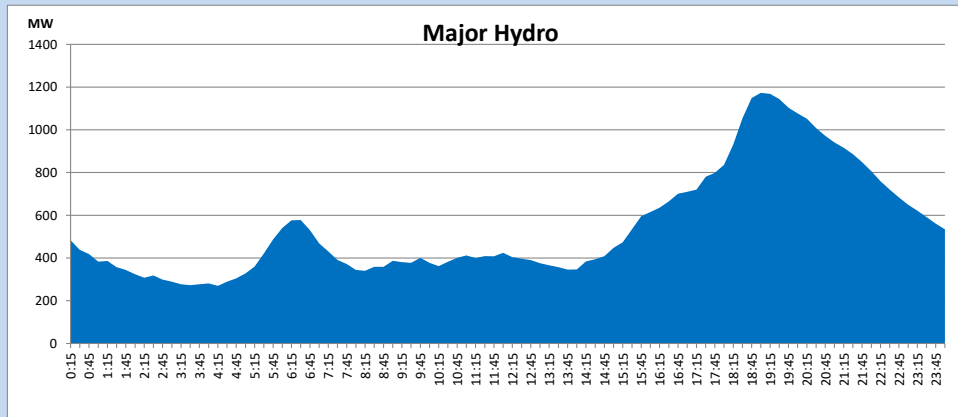
IPP Oil Plant Generation during

April 20, 2024



Major Hydro Generation during

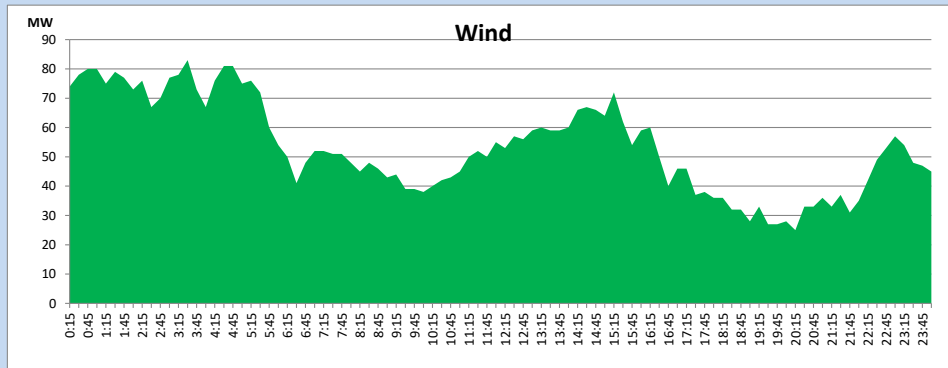
April 20, 2024



Wind Generation during

April 20, 2024

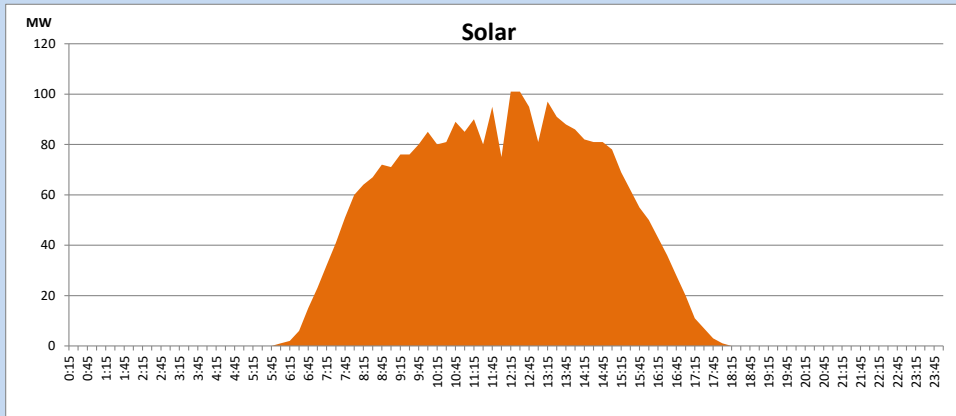
Based on Telemetered Power Stations only



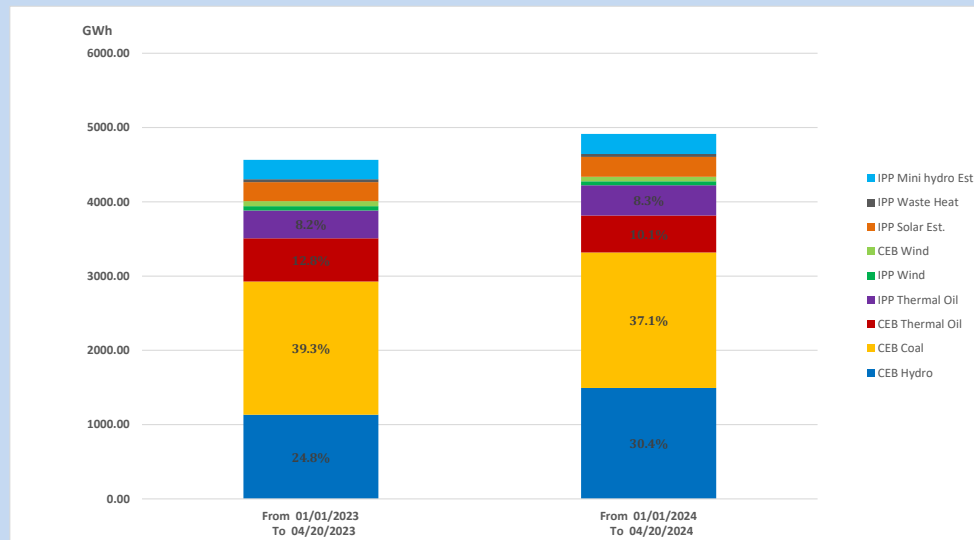
Solar Generation during

April 20, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 04/20/2023
 From 01/01/2024 To 04/20/2024

4565 GWh
 4914 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 20, 2024

- 1) Wimalasurendra PS unit 01 tripped rejecting 25MW from the system at 19:21hrs due to a cooling water system fault. The unit is yet to resume generation.
- 2) Sobadhanavi GT cable from New Kerawalapitiya GSS and New Kerawalapitiya GSS - Kerawalapitiya GSS 220kV cct 02 from both ends tripped due to the operation of differential protection at 22:41hrs , while trying to energize the Sobadhanavi GT T/F 01 220kV side. The both ccts were yet to be normalized.
- 3) KCCP GT & ST tripped at 03:59hrs(21.04.24) rejecting 145MW from the system with the alarm of "High Exhaust temperature trip" . The plant is yet to resume generation.
- 4) LVPS 02 made forced shutdown at 05:08hrs (21.04.24) due to feedwater system safety valve leak . The unit is yet to resume generation.