

Generation and Reservoirs Statistics

April 22, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

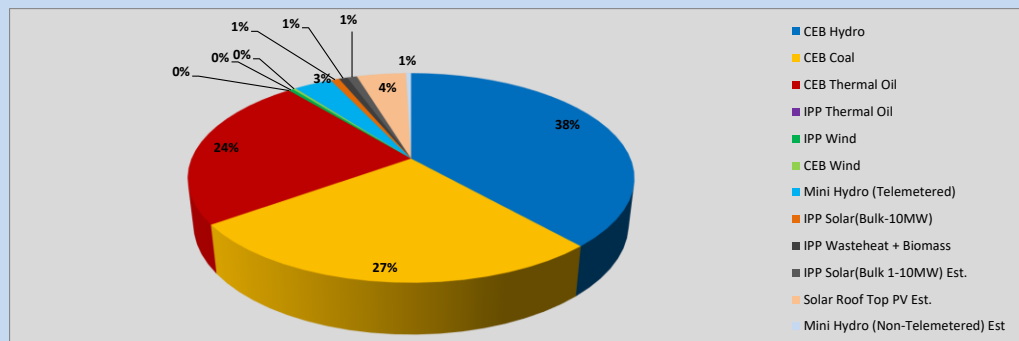


Table 01

	Generation (MWh)
CEB Hydro	18,702
CEB Coal	12,996
CEB Thermal Oil	11,636
IPP Thermal Oil	-
IPP Wind	194
CEB Wind	125
Mini Hydro (Telemetered)	1,609
IPP Solar (Bulk)	368
IPP Waste heat + Biomass	356
Total Generation (Excluding estimated figures)	45,986
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	214
* Estimated IPP Solar PV (Bulk 1-10MW)	412
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	48,692

* 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	263	26.94%
CEB Coal	375	38.48%
CEB Thermal Oil	139	14.25%
IPP Thermal	76	7.84%
SPP Wind	7	0.71%
CEB Wind	7	0.71%
Mini Hydro *	37	3.83%
IPP Solar *	62	6.38%
IPP Waste heat + BMP	8	0.87%
Total	975	

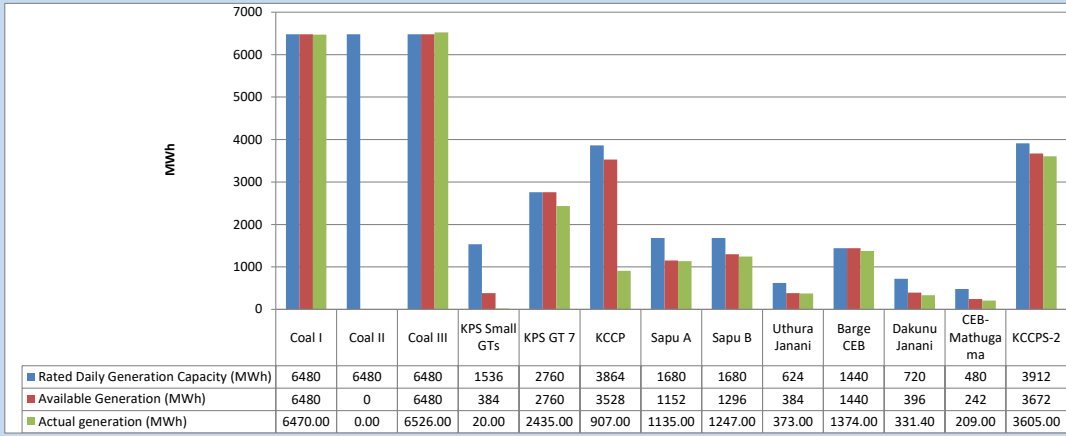
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,526	30.49%
CEB Coal	1,852	37.00%
CEB Thermal Oil	518	10.35%
IPP Thermal	408	8.15%
SPP Wind	53	1.06%
CEB Wind	62	1.24%
Mini Hydro *	273	5.45%
IPP Solar *	272	5.43%
IPP Waste heat	42	0.83%
Total	5,004	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

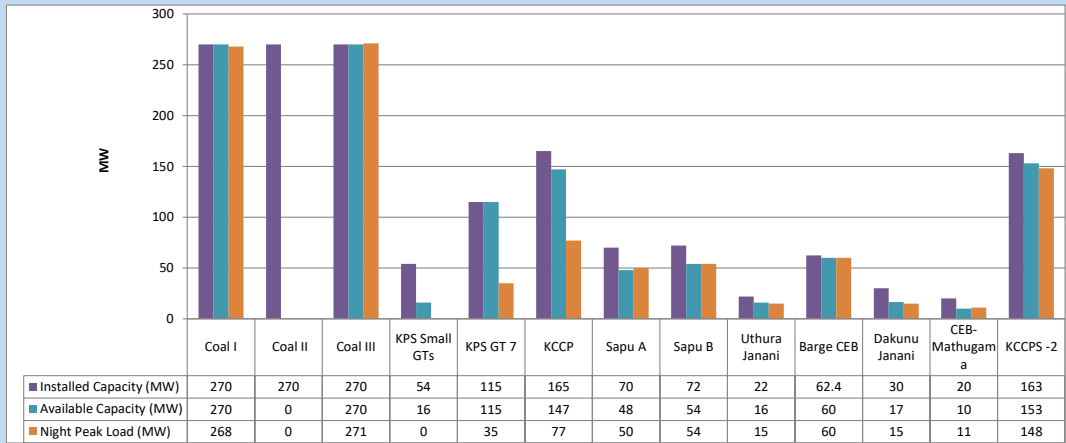
April 22, 2024



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

April 23, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

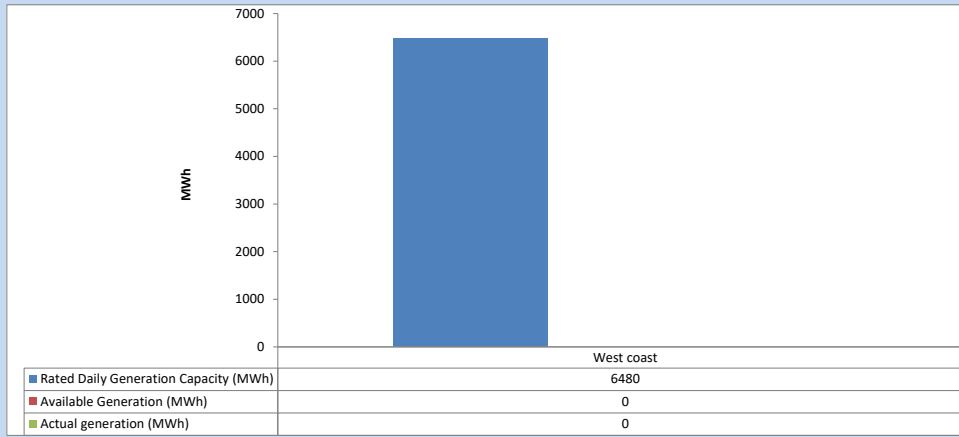


Plant availability is recorded at 6.00 am on

April 23, 2024

5. IPP owned Thermal Plant Dispatch

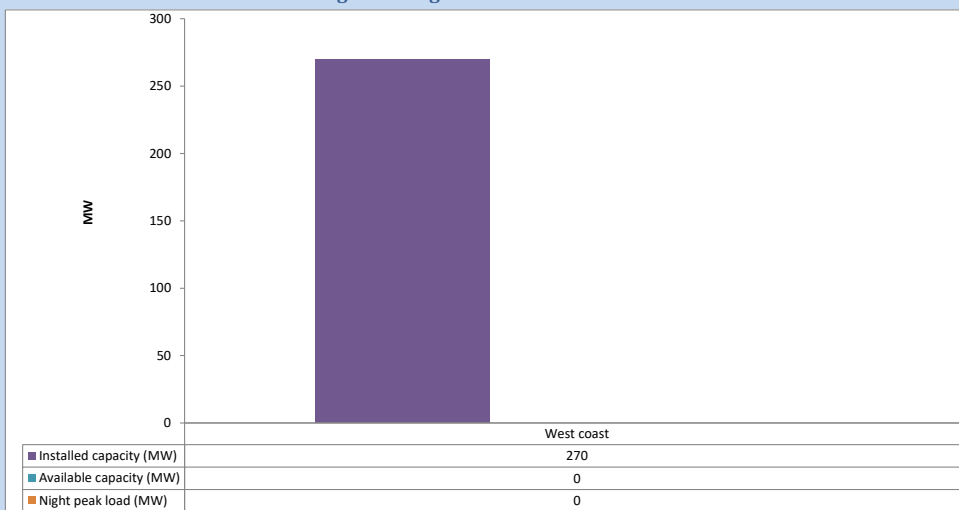
April 22, 2024



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

April 23, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

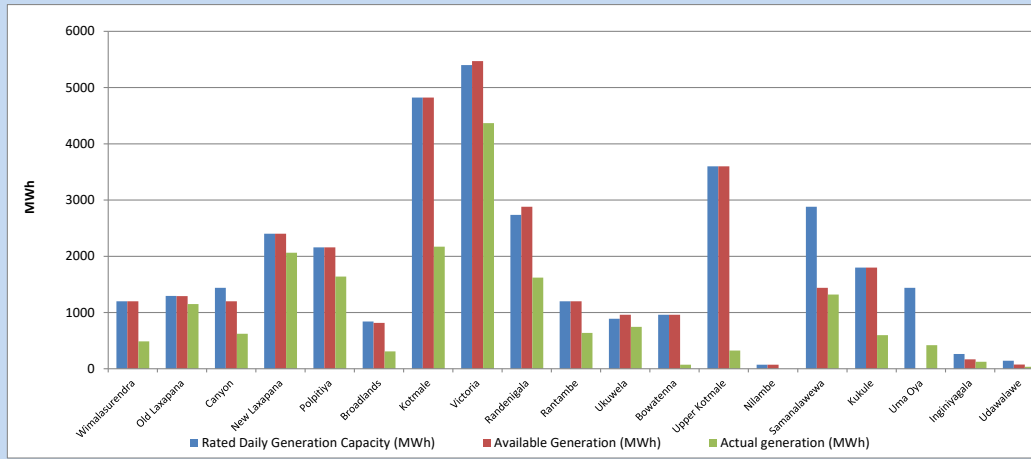


Plant availability is recorded at 6.00 am on

April 23, 2024

7. Major Hydro Plant Dispatch

April 22, 2024

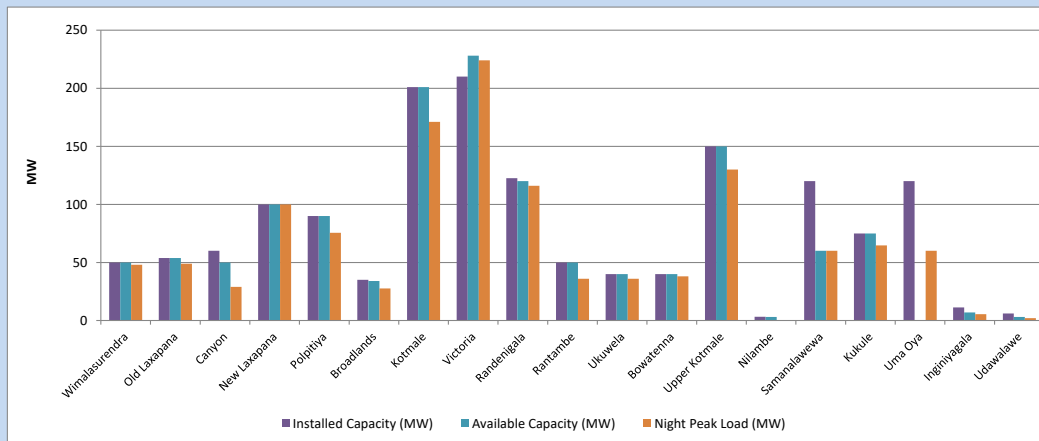


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 23, 2024

8. Major Hydro Plant Loading at Night Peak

April 22, 2024



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

April 23, 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	486
Old Laxapana	54	54	49	1,151
Canyon	60	50	29	623
New Laxapana	100	100	100	2,063
Polpitiya	90	90	76	1,640
Broadlands	35	34	28	309
Kotmale	201	201	171	2,170
Victoria	210	228	224	4,367
Randenigala	123	120	116	1,622
Rantambe	50	50	36	636
Ukuwela	40	40	36	746
Bowatenna	40	40	38	71
Upper Kotmale	150	150	130	325
Nilambe	3	3	0	0
Samanalawewa	120	60	60	1,320
Kukule	75	75	65	596
Uma Oya (Testing)	120	0	60	418
Inginiyagala	11	7	5	123
Udawalawe	6	3	2	36
Puttalam Coal I	270	270	268	6,470
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	271	6,526
KPS Small GTs	54	16	0	20
KPS GT 7	115	115	35	2,435
KCCP	165	147	77	907
Sapugaskanda A	70	48	50	1,135
Sapugaskanda B	72	54	54	1,247
Uthura Janani	22	16	15	373
Barge CEB	62	60	60	1,374
CEB-Hambantota	30	17	15	331
CEB-Mathugama	20	10	11	209
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	148	3,605
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,531	2,385	45,986

Note-

Plant availability is the availability recorded at 6 am on

April 23, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 22, 2024

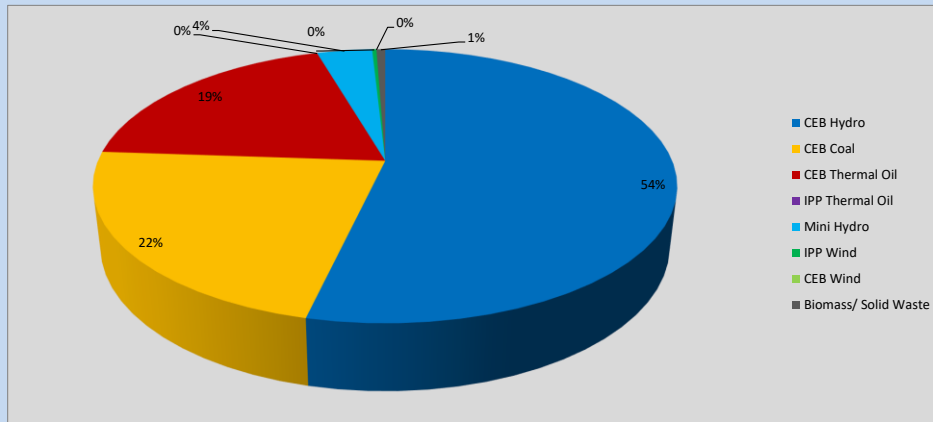


Table 06

CEB Hydro	1287	MW
CEB Coal	539	MW
CEB Thermal Oil	465	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	88	MW
IPP Wind	6.8	MW
CEB Wind	0	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

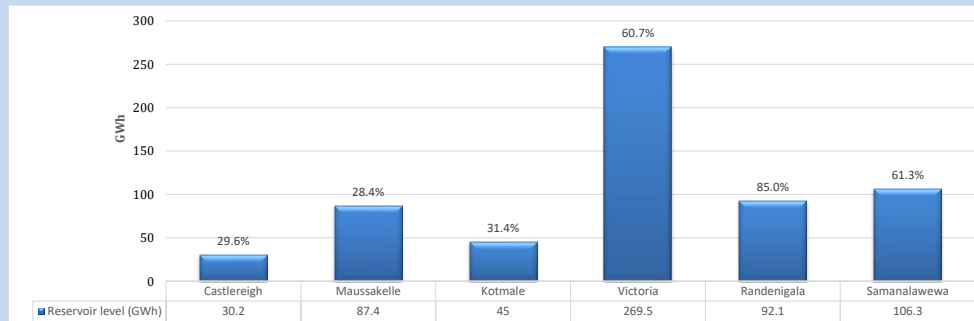
Table 07

Night Peak*	2,400	MW
Day Peak Maximum Demand	2,283	MW
Day Peak Minimum Demand	1,787	MW
Off Peak Minimum Demand	1,443	MW

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

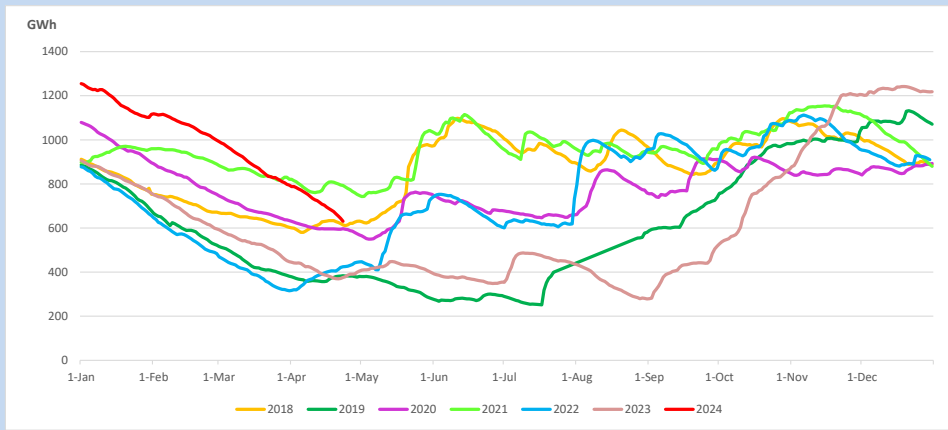
Reservoir Levels -

as at 06.00 Hr on April 23, 2024

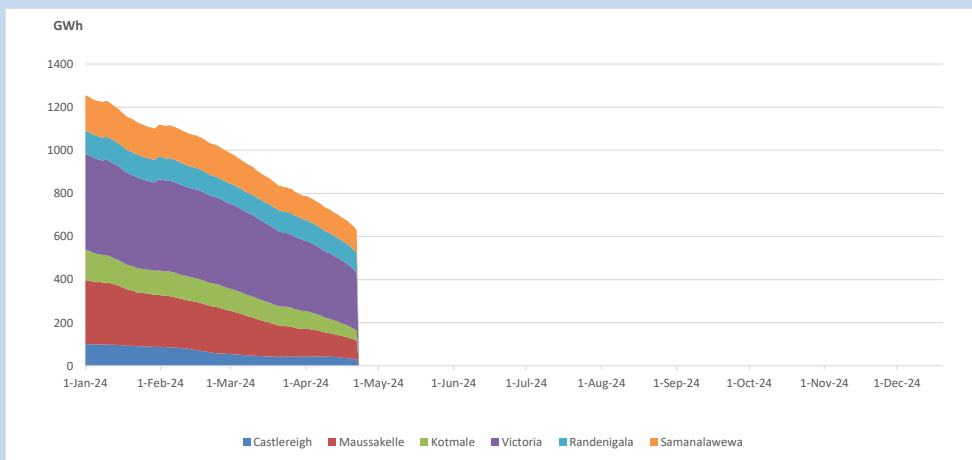


Total Reservoir Level 630.5 GWh
% of Total capacity 49.3%

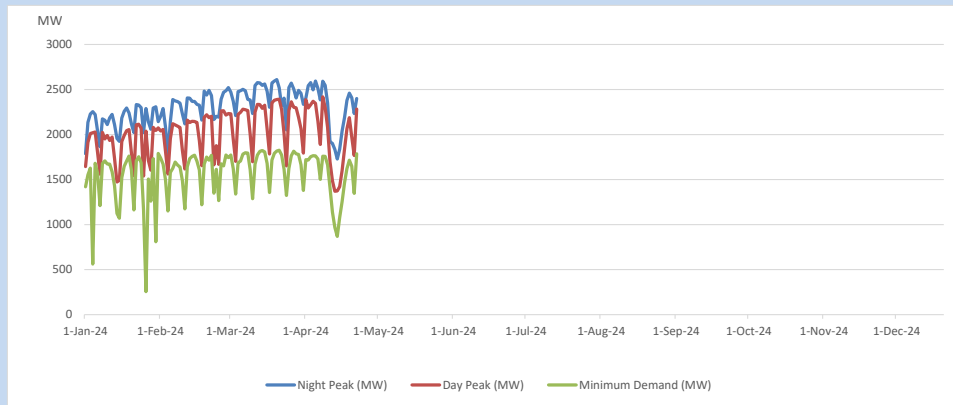
11. Comparison of Total Reservoir Storage Levels with Past Years



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



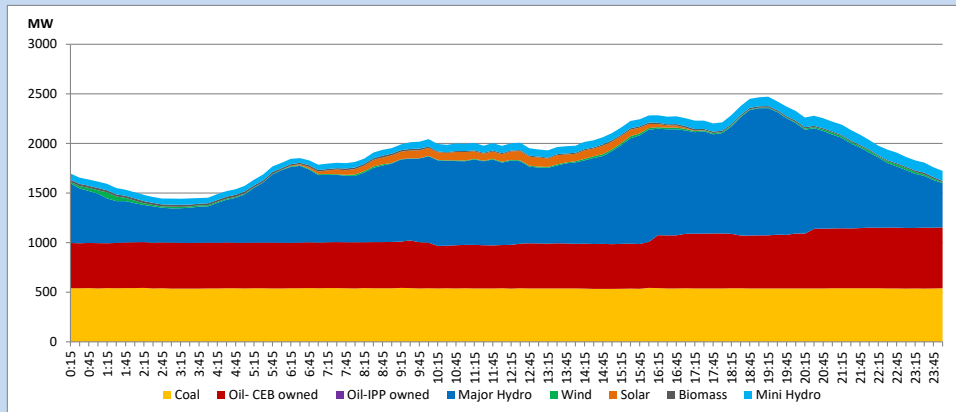
13. Variation of Demand during the current year



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

14. Daily Load Curve

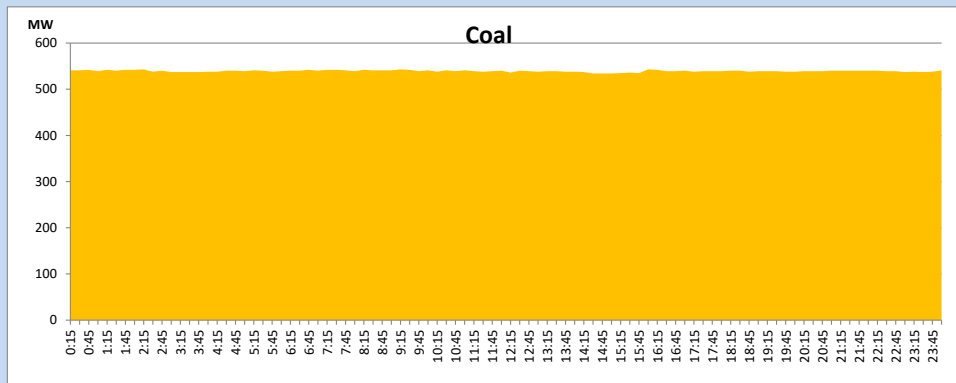
April 22, 2024



Solar and wind data is based on Telemetered Power Stations only

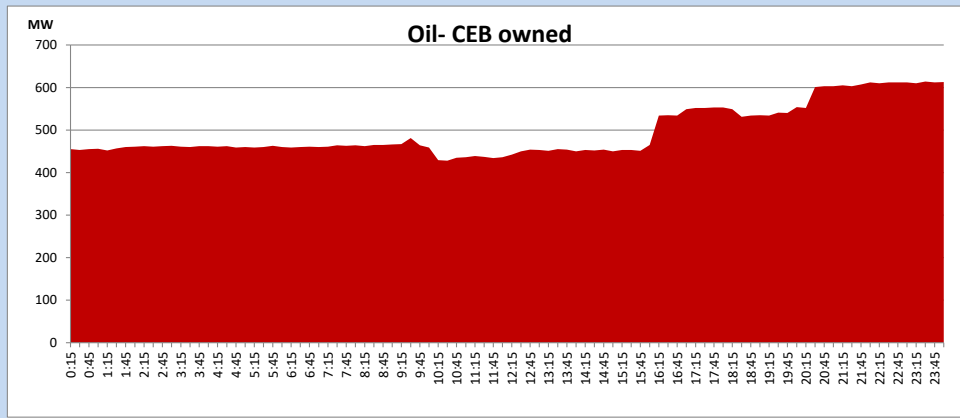
Coal Generation during

April 22, 2024



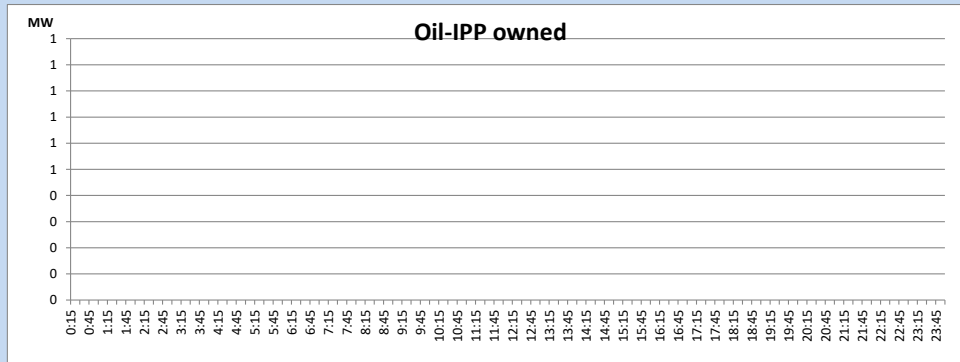
CEB Oil Plant Generation during

April 22, 2024



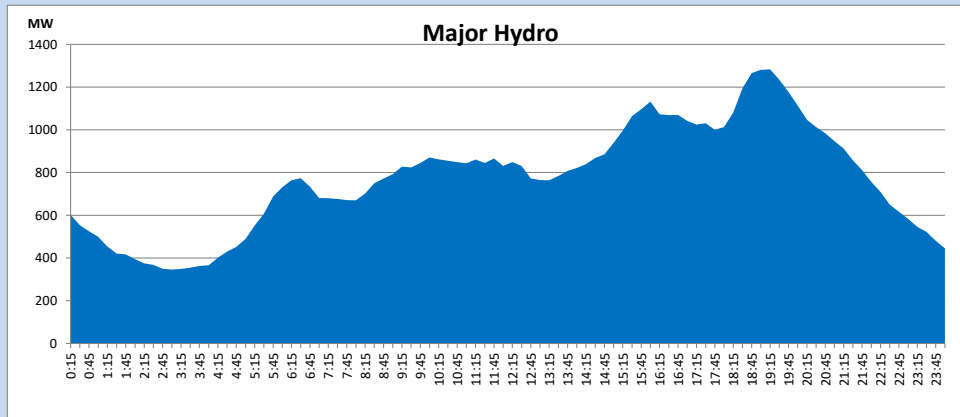
IPP Oil Plant Generation during

April 22, 2024



Major Hydro Generation during

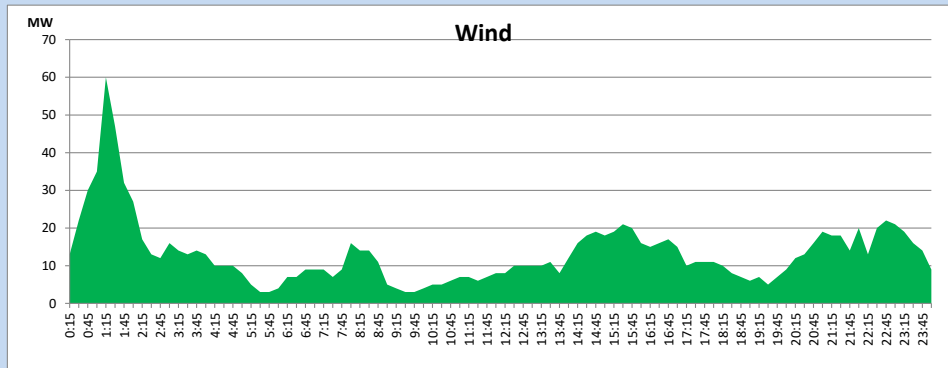
April 22, 2024



Wind Generation during

April 22, 2024

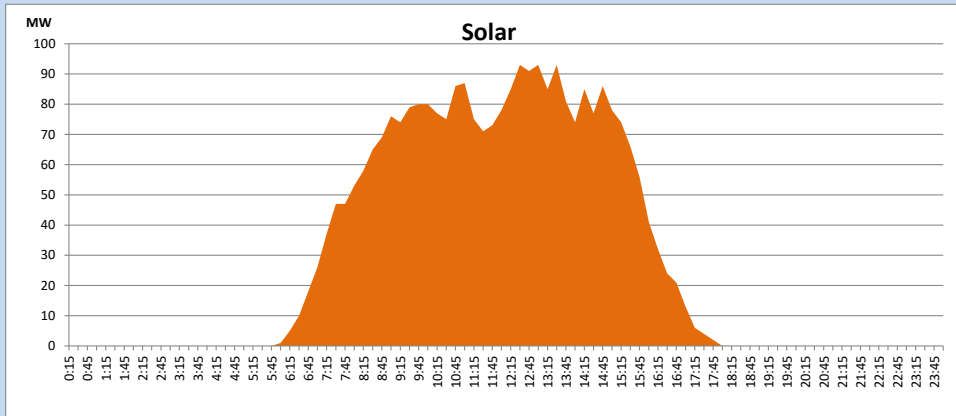
Based on Telemetered Power Stations only



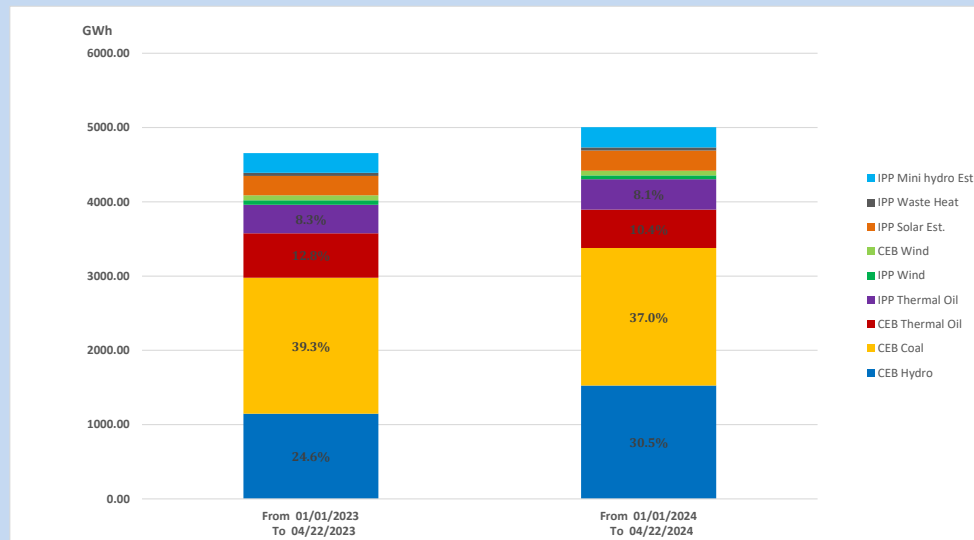
Solar Generation during

April 22, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 04/22/2023

4656 GWh

From 01/01/2024 To 04/22/2024

5004 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 22, 2024

- 1) Veyangoda - N/Habarana 220kV bay 01 and 02 energized for the first time for the soak test from Veyangoda GSS at 11:57hrs and 11:59hrs respectively.
 - 2) KCCP resumed generation at 15:50hrs, which was tripped on 21.04.2024.
- Varuna Rathnayake
System Control Engineer
- (1) - Estimated energy contribution from Roof Top Solar, and certain Mini Hydro plants and Biomass plants
System Control Centre-Transmission Division