

Generation and Reservoirs Statistics

April 27, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

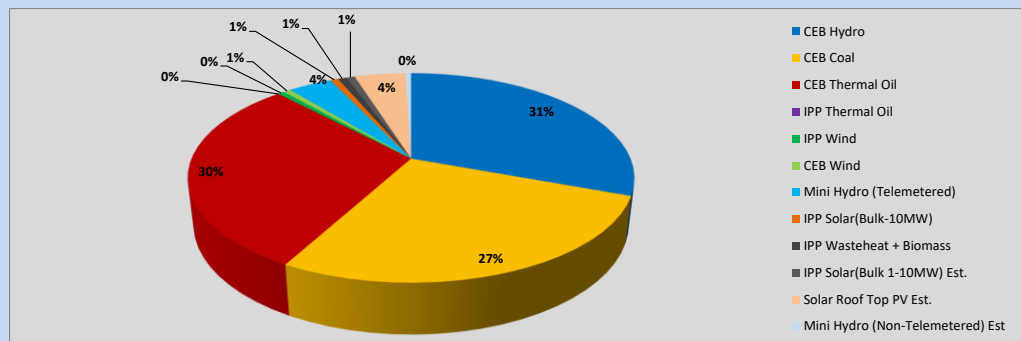


Table 01

	Generation (MWh)
CEB Hydro	14,502
CEB Coal	12,947
CEB Thermal Oil	14,204
IPP Thermal Oil	-
IPP Wind	268
CEB Wind	300
Mini Hydro (Telemetered)	1,797
IPP Solar (Bulk)	328
IPP Waste heat + Biomass	341
Total Generation (Excluding estimated figures)	44,687
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	239
* Estimated IPP Solar PV (Bulk 1-10MW)	361
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	47,367

* 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	340	27.97%
CEB Coal	440	36.13%
CEB Thermal Oil	210	17.27%
IPP Thermal	76	6.28%
SPP Wind	8	0.64%
CEB Wind	8	0.63%
Mini Hydro *	48	3.94%
IPP Solar *	76	6.26%
IPP Waste heat + BMP	11	0.88%
Total	1,217	

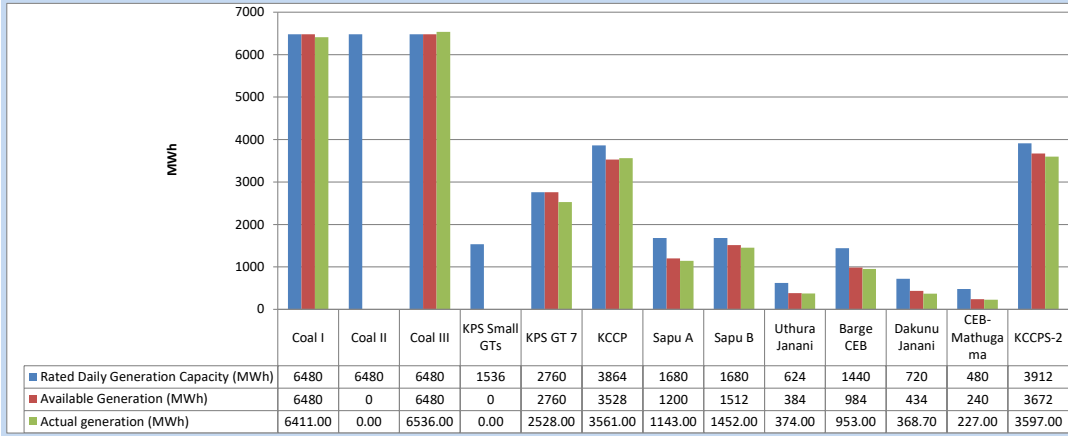
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,602	30.39%
CEB Coal	1,914	36.31%
CEB Thermal Oil	589	11.18%
IPP Thermal	408	7.73%
SPP Wind	57	1.08%
CEB Wind	63	1.19%
Mini Hydro *	303	5.75%
IPP Solar *	288	5.46%
IPP Waste heat	48	0.92%
Total	5,271	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

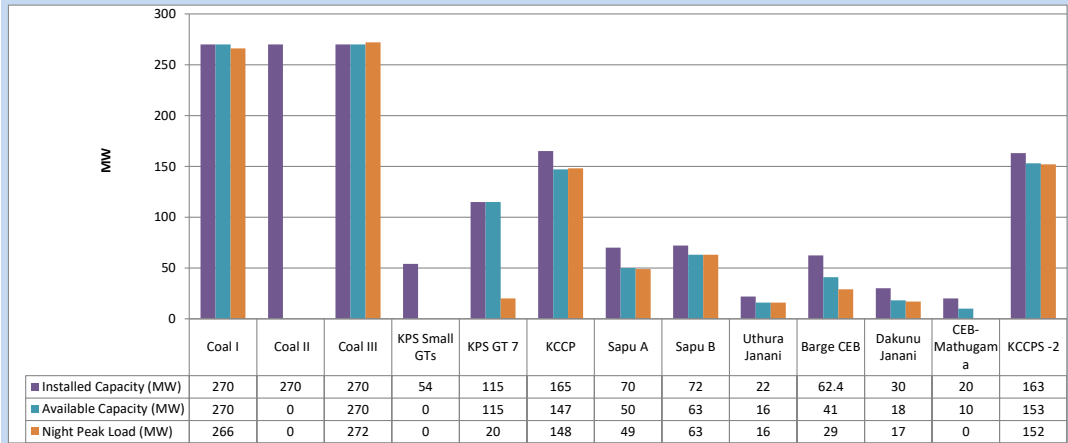
April 27, 2024



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

April 28, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

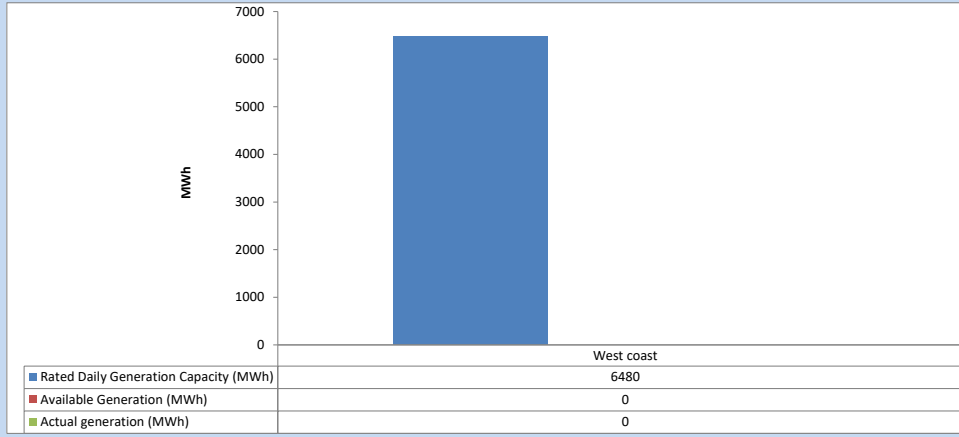


Plant availability is recorded at 6.00 am on

April 28, 2024

5. IPP owned Thermal Plant Dispatch

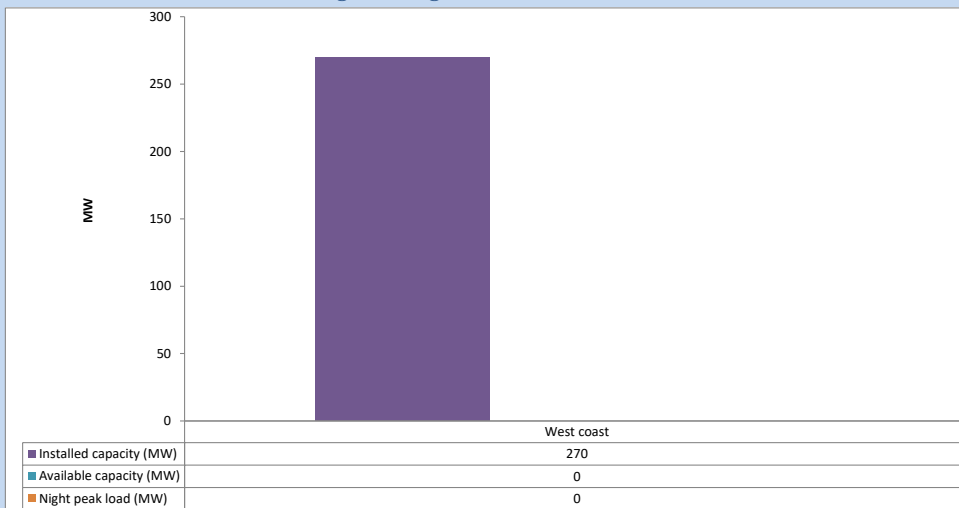
April 27, 2024



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

April 28, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

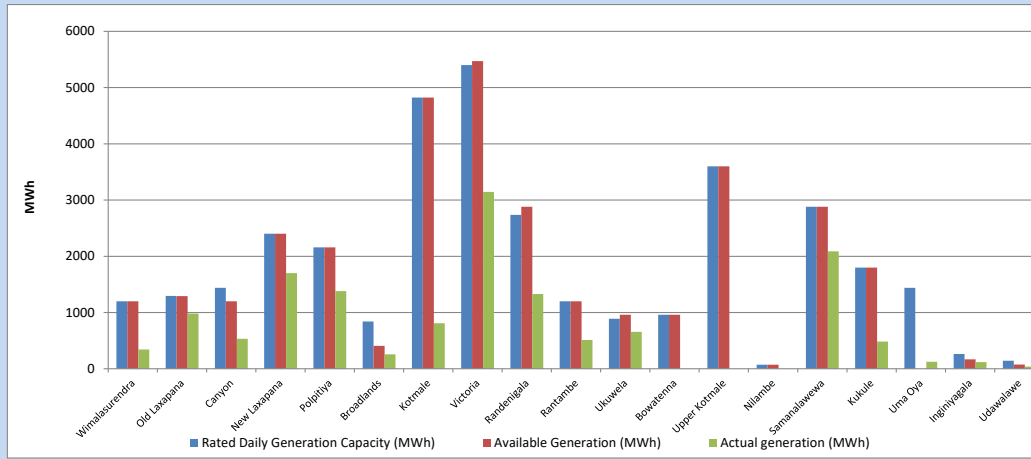


Plant availability is recorded at 6.00 am on

April 28, 2024

7. Major Hydro Plant Dispatch

April 27, 2024

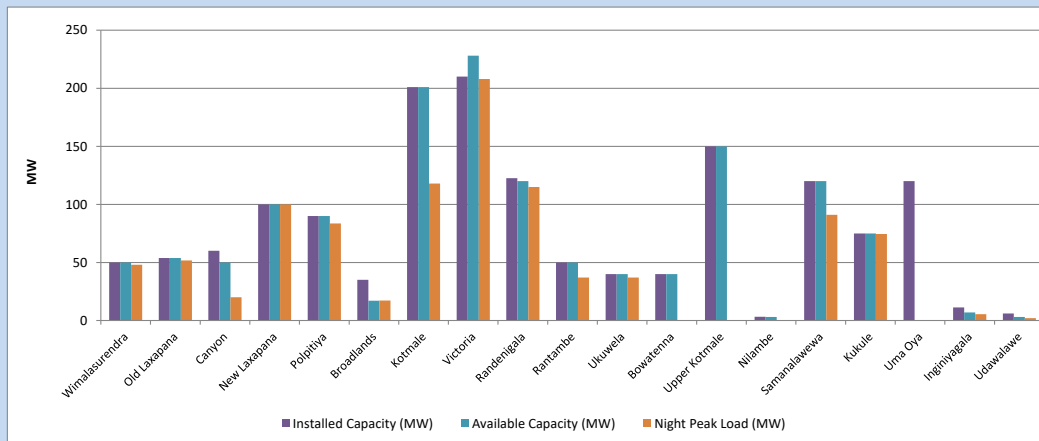


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 28, 2024

8. Major Hydro Plant Loading at Night Peak

April 27, 2024



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

April 28, 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	342
Old Laxapana	54	54	52	983
Canyon	60	50	20	532
New Laxapana	100	100	100	1,701
Polpitiya	90	90	84	1,380
Broadlands	35	17	17	257
Kotmale	201	201	118	810
Victoria	210	228	208	3,145
Randenigala	123	120	115	1,330
Rantambe	50	50	37	511
Ukuwela	40	40	37	657
Bowatenna	40	40	0	0
Upper Kotmale	150	150	0	0
Nilambe	3	3	0	0
Samanalawewa	120	120	91	2,089
Kukule	75	75	75	484
Uma Oya (Testing)	120	0	0	124
Inginiyagala	11	7	5	118
Udawalawe	6	3	2	39
Puttalam Coal I	270	270	266	6,411
Puttalam Coal II	270	0	0	0
Puttalam Coal III	270	270	272	6,536
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	20	2,528
KCCP	165	147	148	3,561
Sapugaskanda A	70	50	49	1,143
Sapugaskanda B	72	63	63	1,452
Uthura Janani	22	16	16	374
Barge CEB	62	41	29	953
CEB-Hambantota	30	18	17	369
CEB-Mathugama	20	10	0	227
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	153	152	3,597
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,551	2,188	44,687

Note-

Plant availability is the availability recorded at 6 am on

April 28, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 27, 2024

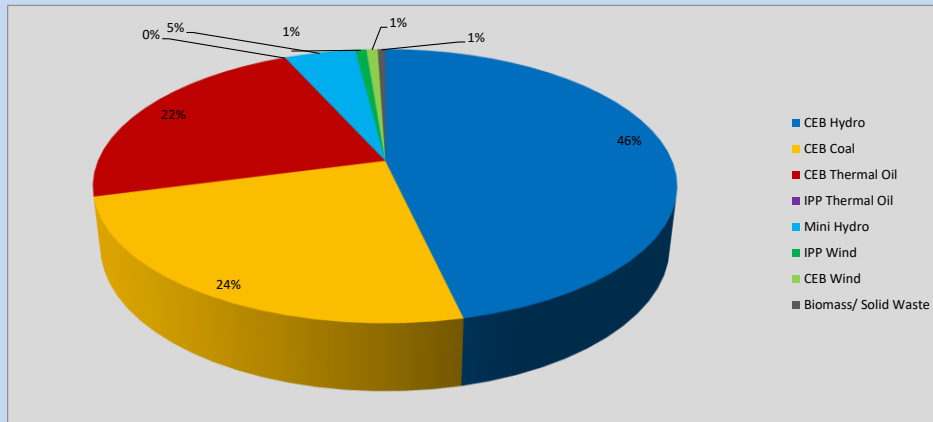


Table 06

CEB Hydro	1022	MW
CEB Coal	538	MW
CEB Thermal Oil	494	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	104	MW
IPP Wind	16.2	MW
CEB Wind	16.5	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

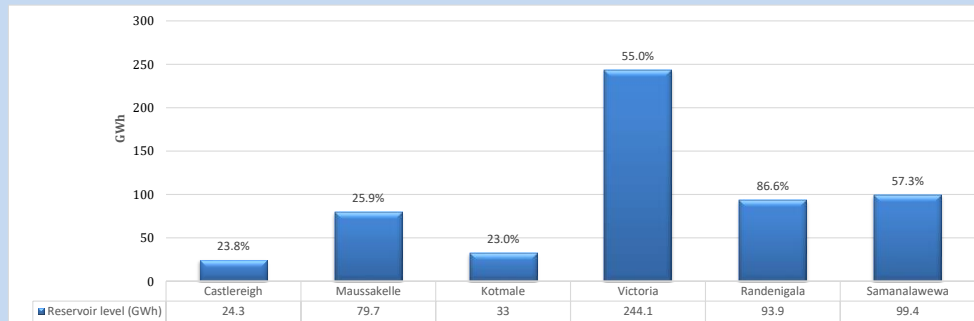
Table 07

Night Peak*	2,202	MW
Day Peak Maximum Demand	2,099	MW
Day Peak Minimum Demand	1,763	MW
Off Peak Minimum Demand	1,629	MW

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

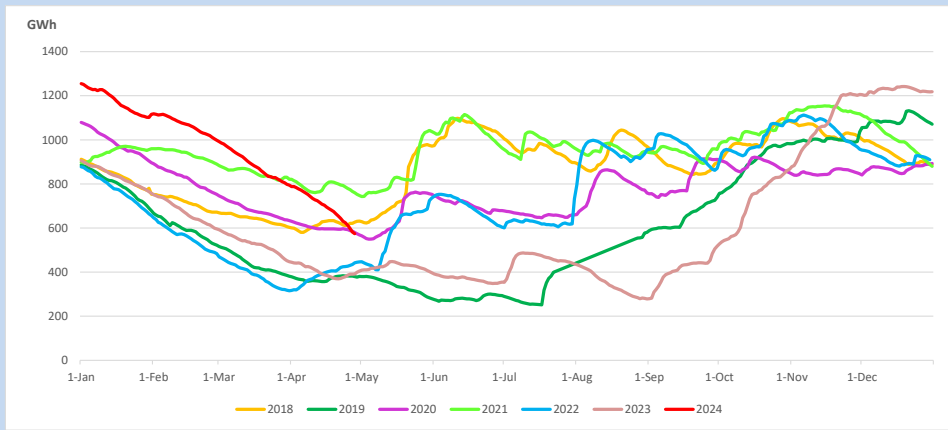
Reservoir Levels -

as at 06.00 Hr on April 28, 2024

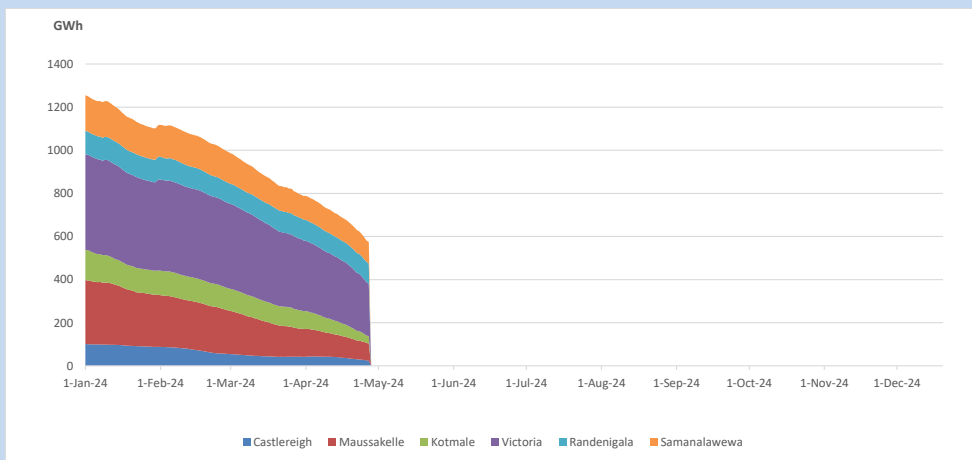


Total Reservoir Level 574.4 GWh
% of Total capacity 44.9%

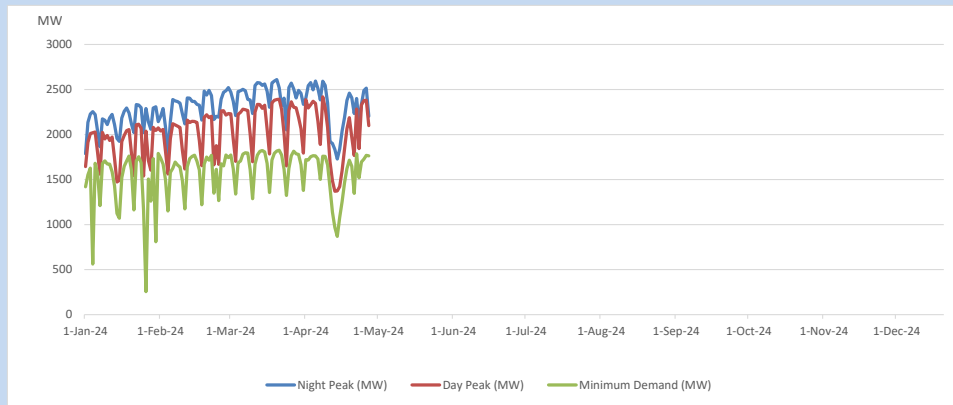
11. Comparison of Total Reservoir Storage Levels with Past Years



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



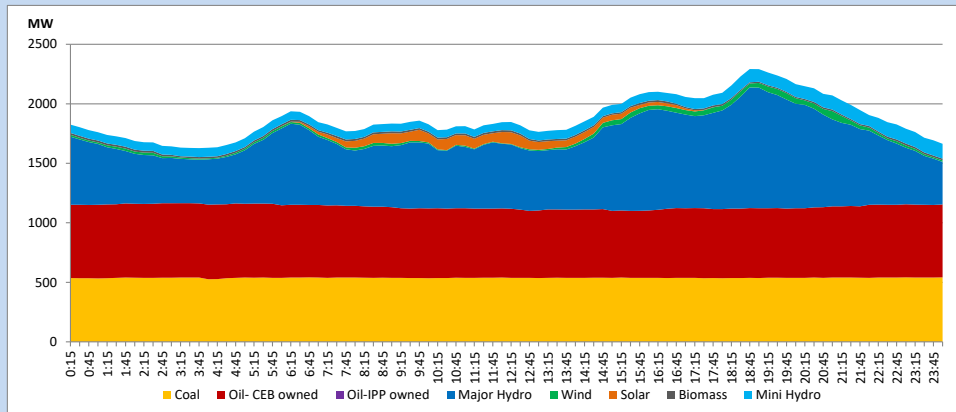
13. Variation of Demand during the current year



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

14. Daily Load Curve

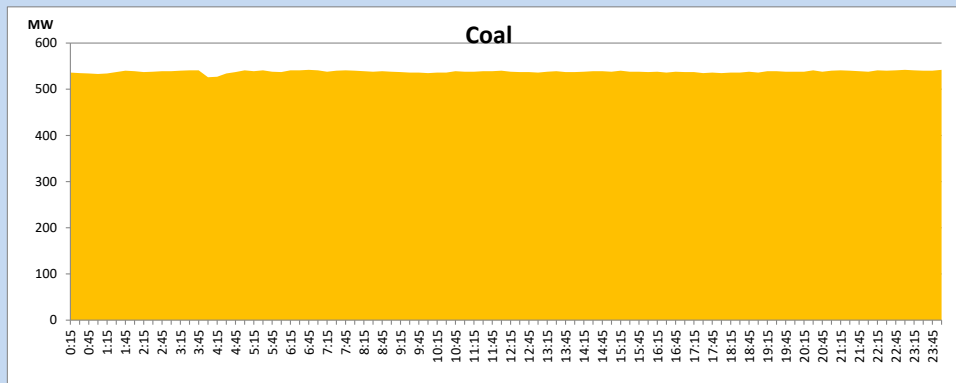
April 27, 2024



Solar and wind data is based on Telemetered Power Stations only

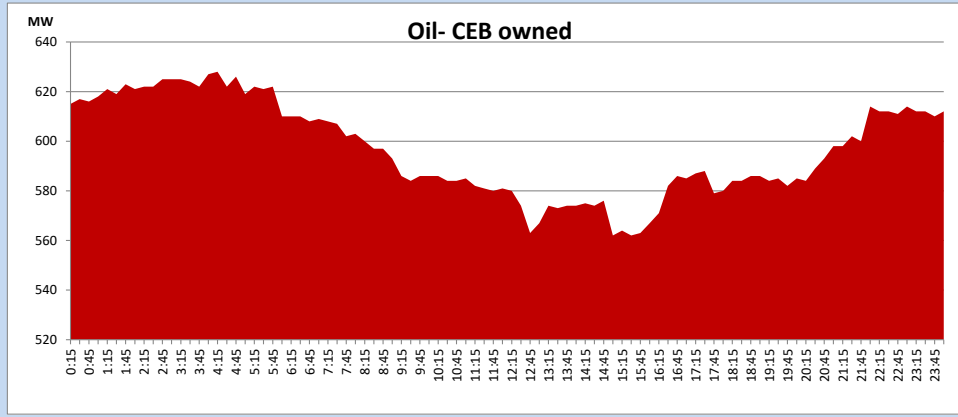
Coal Generation during

April 27, 2024



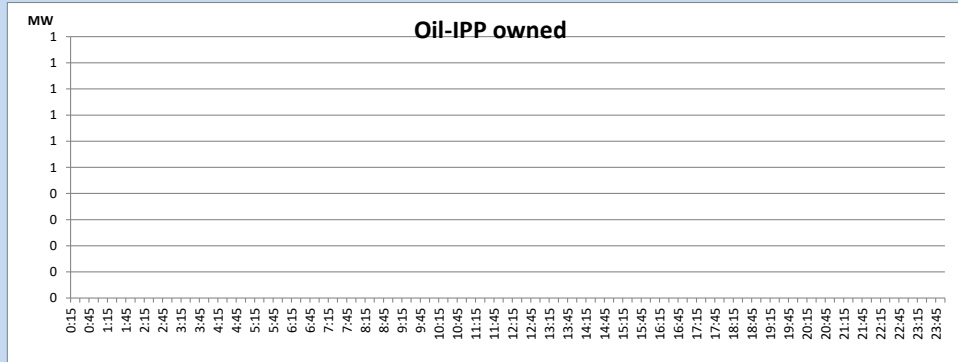
CEB Oil Plant Generation during

April 27, 2024



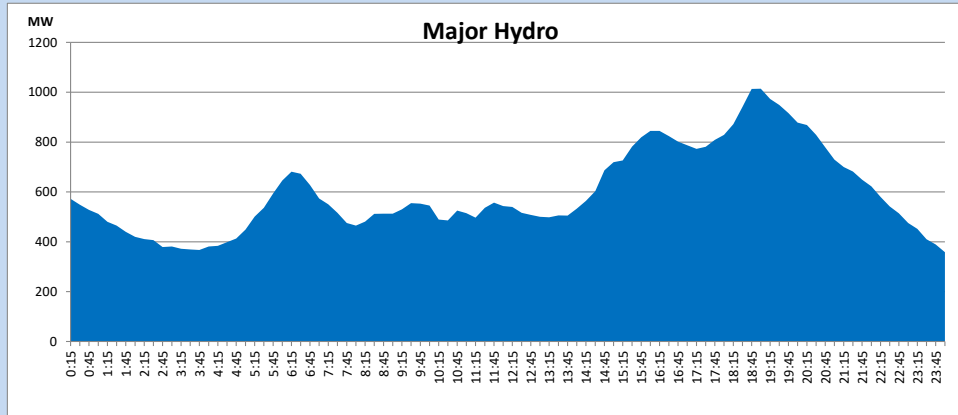
IPP Oil Plant Generation during

April 27, 2024



Major Hydro Generation during

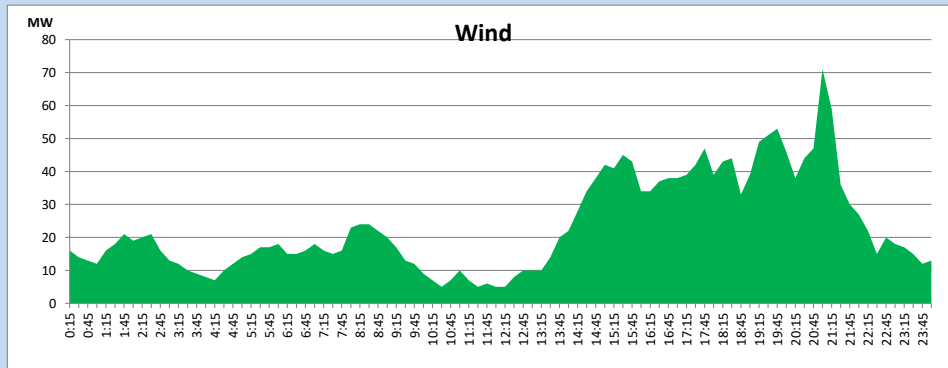
April 27, 2024



Wind Generation during

April 27, 2024

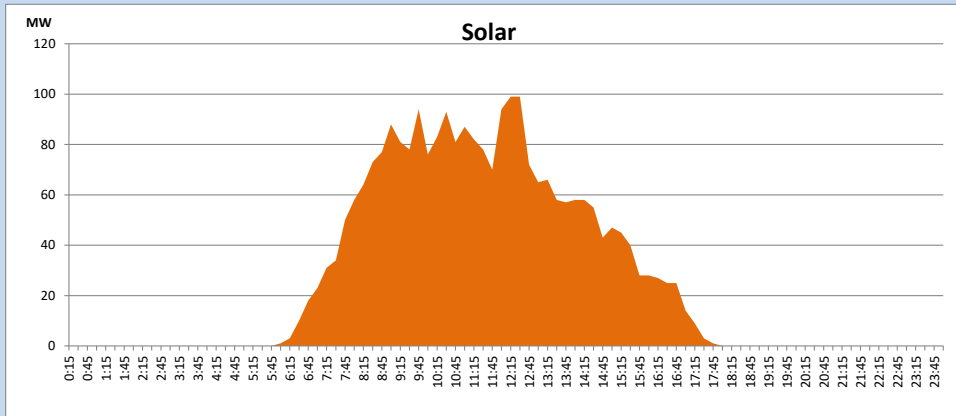
Based on Telemetered Power Stations only



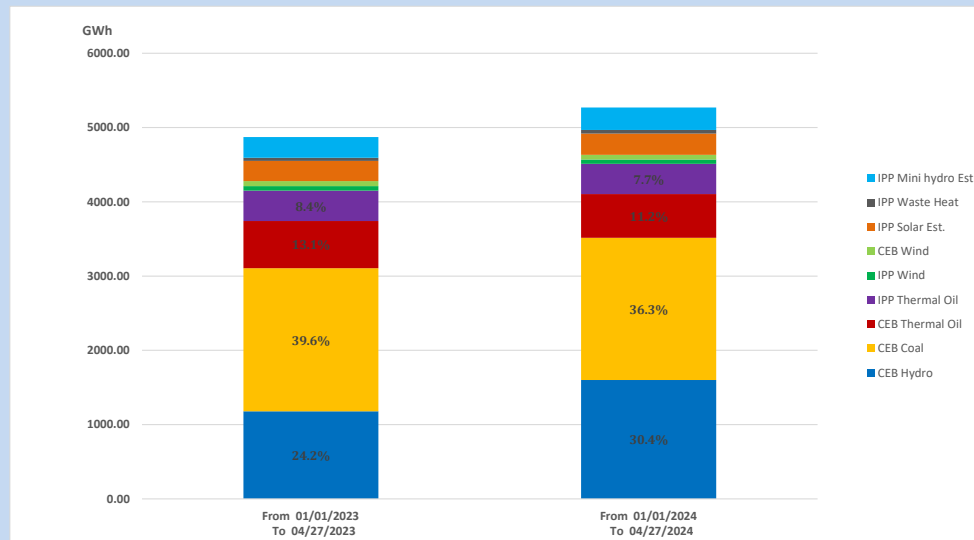
Solar Generation during

April 27, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 04/27/2023

4871 GWh

From 01/01/2024 To 04/27/2024

5271 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 27, 2024

- 1) Biyagama - Kothmale 220kV cct 02 and N/Polpitiya - Padukka 220kV cct 02 tripped and A/R from both ends at 14:58hrs and 15:12hrs respectively due to the operation of distance protection.
- 2) Dakunu Janani DPP tripped at 14:48hrs rejecting 16MW from the system due to the Generator breaker external trip alarm. Dakunu Janani DPP resumed generation at 16:14hrs.
- 3) WPS GSS 33kV feeder 07 and 132/33kV T/F 03 tripped only from the 33kV end at 18:06hrs due to the operation of overcurrent and earth fault protection causing 33kV B/S 02 to be dead. The T/F was normalized at 18:17hrs and all affected feeders except feeder 07 were normalized at 18:19hrs. The T/F 03 tripped again from the 33kV end at 18:28hrs due to the operation of overcurrent protection while attempting to energize the 33kV feeder 07 causing 33kV B/S 02 to be dead. The T/F and all affected feeders except feeder 07 were normalized by 18:35hrs.
- 4) Matugama DPP tripped at 17:00hrs rejecting 11.6MW from the system due to the Generator breaker external trip alarm. Matugama DPP resumed generation at 21:05hrs.
- 5) Kukule Ganga pond spilling started at 01:12hrs (28.04.2024) and continues to the present hour.