

Generation and Reservoirs Statistics

April 21, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

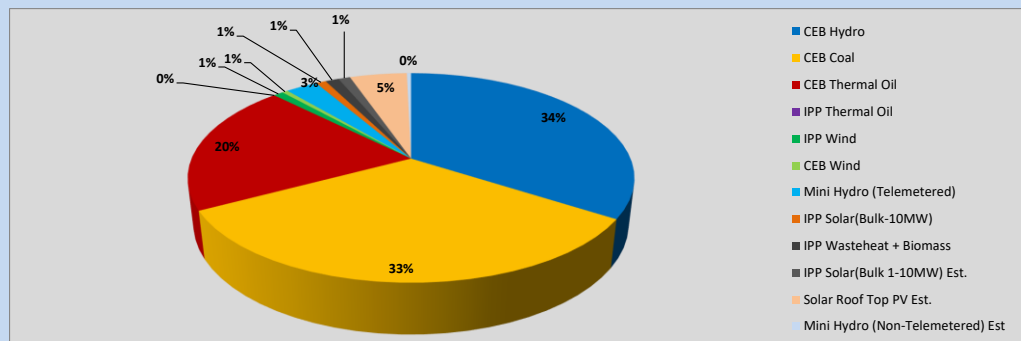


Table 01

	Generation (MWh)
CEB Hydro	14,330
CEB Coal	13,937
CEB Thermal Oil	8,544
IPP Thermal Oil	-
IPP Wind	356
CEB Wind	210
Mini Hydro (Telemetered)	1,162
IPP Solar (Bulk)	366
IPP Waste heat + Biomass	490
Total Generation (Excluding estimated figures)	39,395
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	154
* Estimated IPP Solar PV (Bulk 1-10MW)	433
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	42,062

* 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	244	26.33%
CEB Coal	362	39.10%
CEB Thermal Oil	127	13.74%
IPP Thermal	76	8.25%
SPP Wind	7	0.73%
CEB Wind	7	0.74%
Mini Hydro *	36	3.83%
IPP Solar *	59	6.41%
IPP Waste heat + BMP	8	0.87%
Total	926	

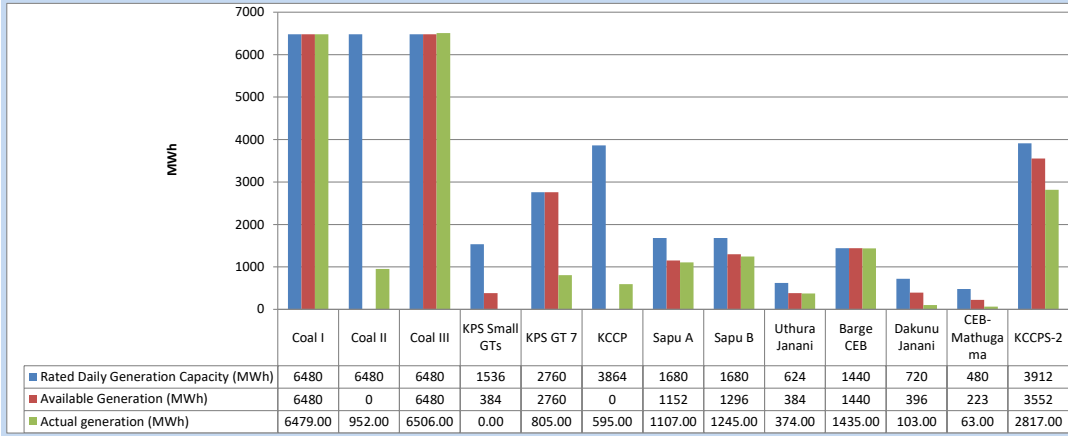
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,507	30.41%
CEB Coal	1,839	37.10%
CEB Thermal Oil	506	10.22%
IPP Thermal	408	8.23%
SPP Wind	53	1.07%
CEB Wind	62	1.25%
Mini Hydro *	271	5.46%
IPP Solar *	269	5.42%
IPP Waste heat	41	0.83%
Total	4,956	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

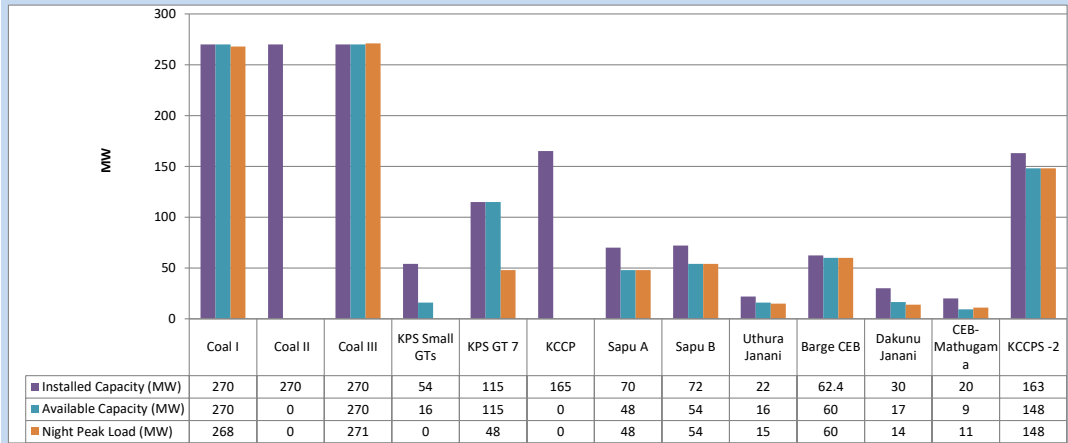
April 21, 2024



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

April 22, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

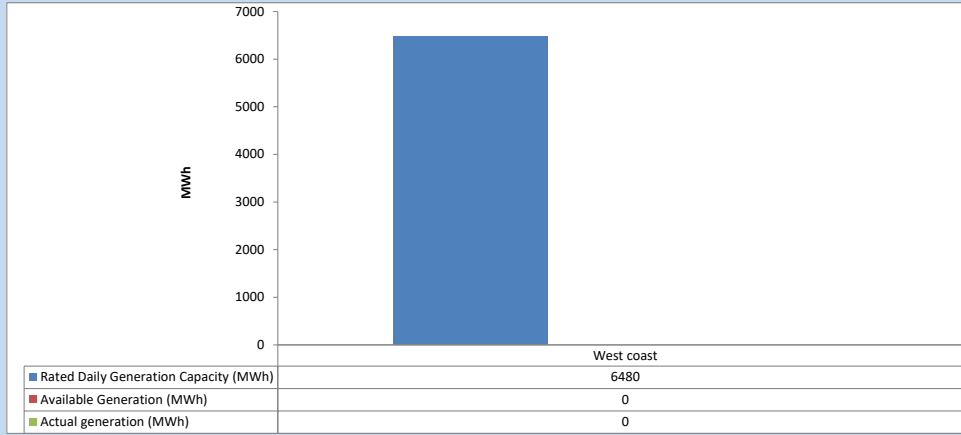


Plant availability is recorded at 6.00 am on

April 22, 2024

5. IPP owned Thermal Plant Dispatch

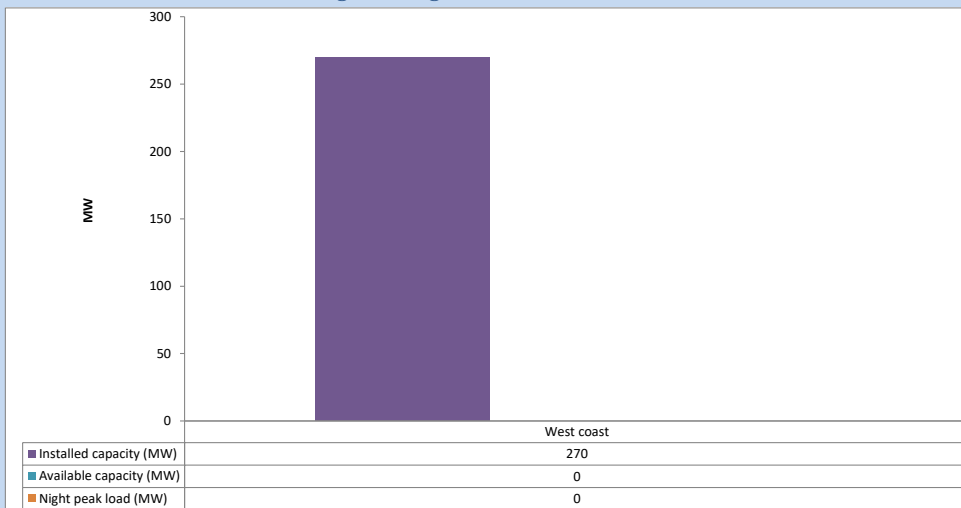
April 21, 2024



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

April 22, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

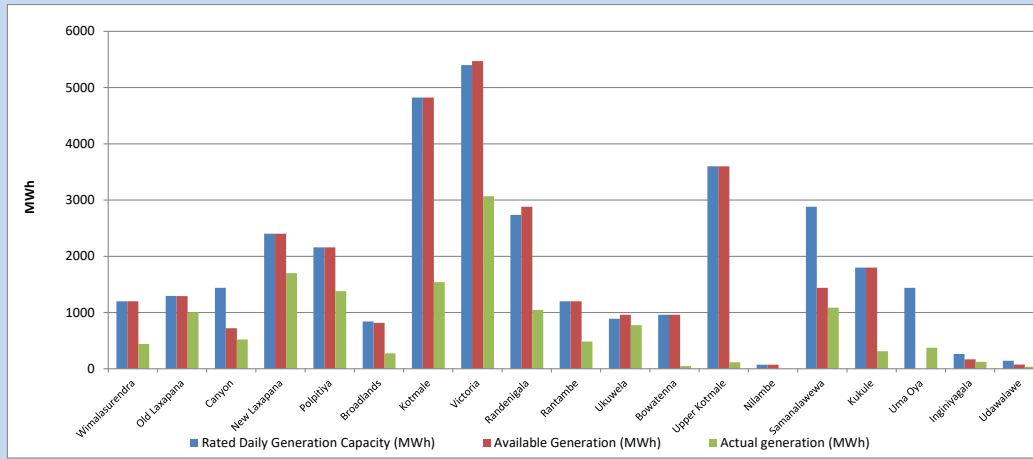


Plant availability is recorded at 6.00 am on

April 22, 2024

7. Major Hydro Plant Dispatch

April 21, 2024

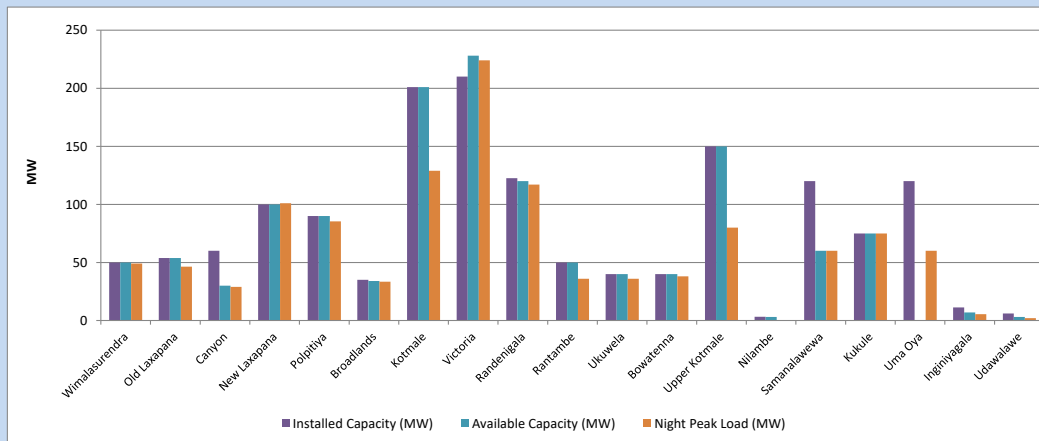


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 22, 2024

8. Major Hydro Plant Loading at Night Peak

April 21, 2024



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

April 22, 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	49	442
Old Laxapana	54	54	46	1,004
Canyon	60	30	29	522
New Laxapana	100	100	101	1,700
Polpitiya	90	90	85	1,380
Broadlands	35	34	33	276
Kotmale	201	201	129	1,540
Victoria	210	228	224	3,069
Randenigala	123	120	117	1,046
Rantambe	50	50	36	485
Ukuwela	40	40	36	776
Bowatenna	40	40	38	46
Upper Kotmale	150	150	80	116
Nilambe	3	3	0	0
Samanalawewa	120	60	60	1,087
Kukule	75	75	75	311
Uma Oya (Testing)	120	0	60	372
Inginiyagala	11	7	5	124
Udawalawe	6	3	2	35
Puttalam Coal I	270	270	268	6,479
Puttalam Coal II	270	0	0	952
Puttalam Coal III	270	270	271	6,506
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	48	805
KCCP	165	0	0	595
Sapugaskanda A	70	48	48	1,107
Sapugaskanda B	72	54	54	1,245
Uthura Janani	22	16	15	374
Barge CEB	62	60	60	1,435
CEB-Hambantota	30	17	14	103
CEB-Mathugama	20	9	11	63
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	148	148	2,817
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,358	2,220	39,396

Note-

Plant availability is the availability recorded at 6 am on

April 22, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 21, 2024

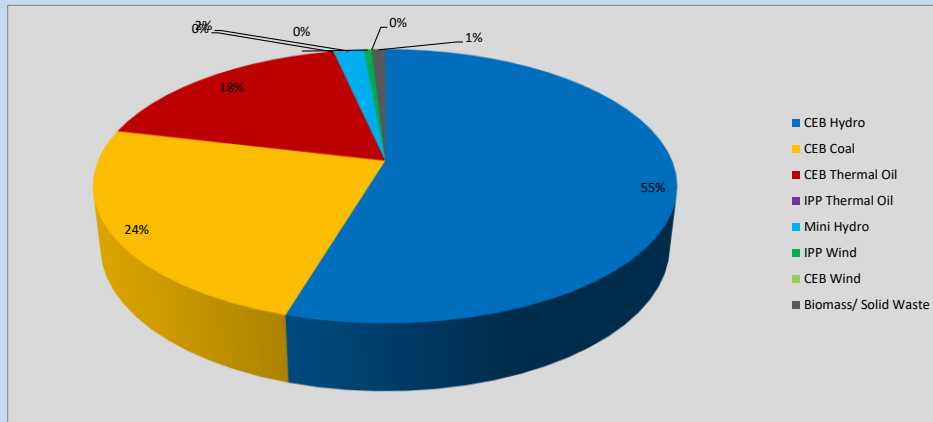


Table 06

CEB Hydro	1219	MW
CEB Coal	539	MW
CEB Thermal Oil	398	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	45	MW
IPP Wind	11.6	MW
CEB Wind	0	MW
Biomass/ Solid Waste	20	MW

Recorded Peak Demand Data

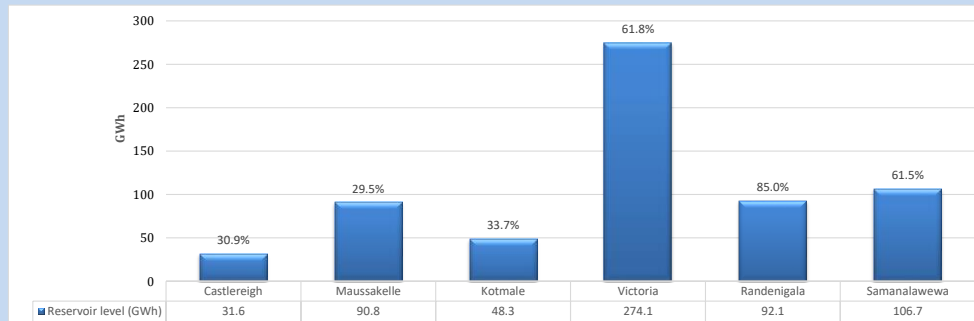
Table 07

Night Peak*	2,233	MW
Day Peak Maximum Demand	1,768	MW
Day Peak Minimum Demand	1,347	MW
Off Peak Minimum Demand	1,450	MW

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

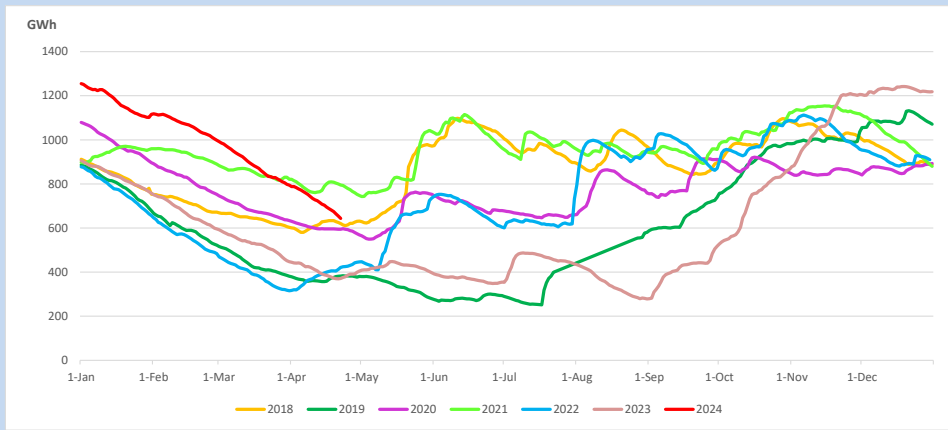
Reservoir Levels -

as at 06.00 Hr on April 22, 2024

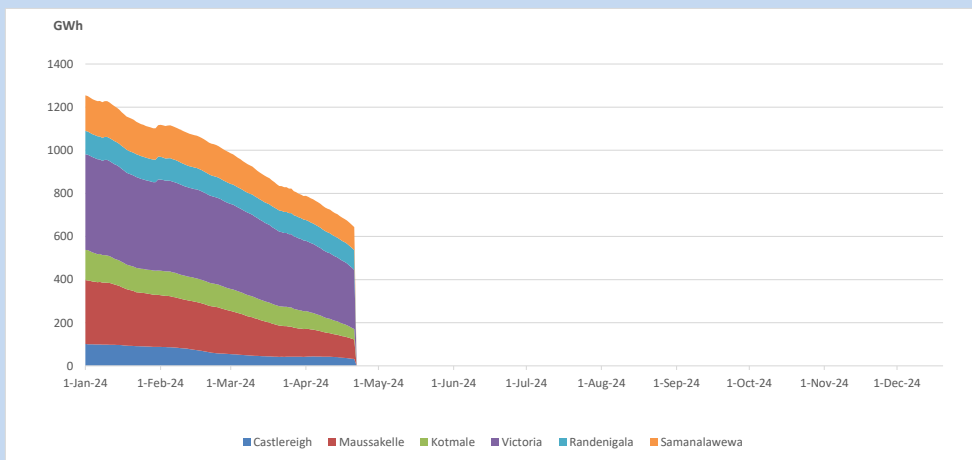


Total Reservoir Level 643.6 GWh
% of Total capacity 50.3%

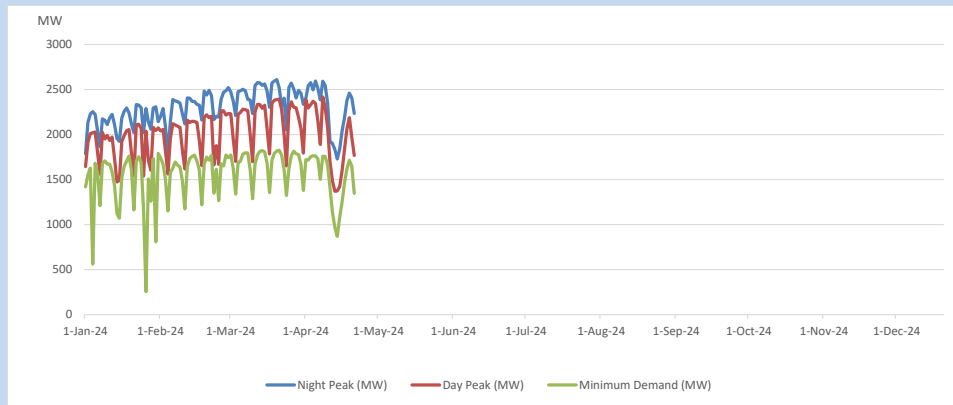
11. Comparison of Total Reservoir Storage Levels with Past Years



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



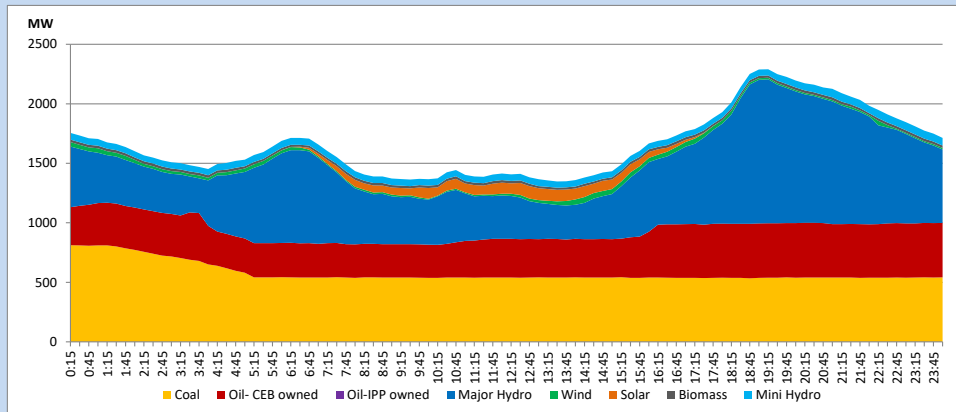
13. Variation of Demand during the current year



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

14. Daily Load Curve

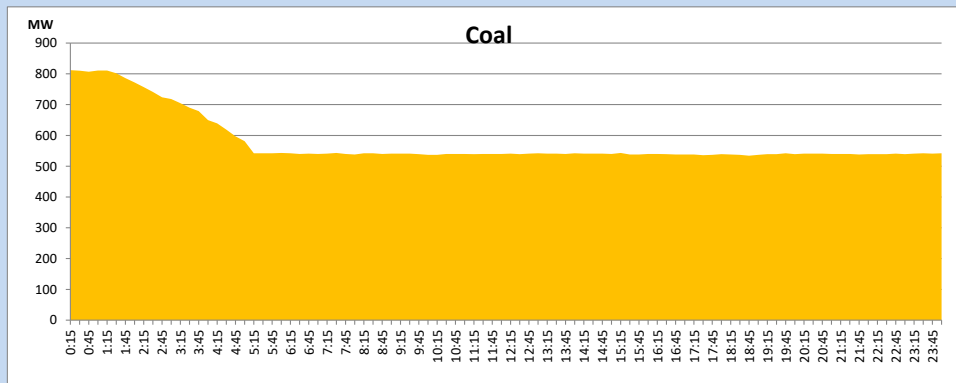
April 21, 2024



Solar and wind data is based on Telemetered Power Stations only

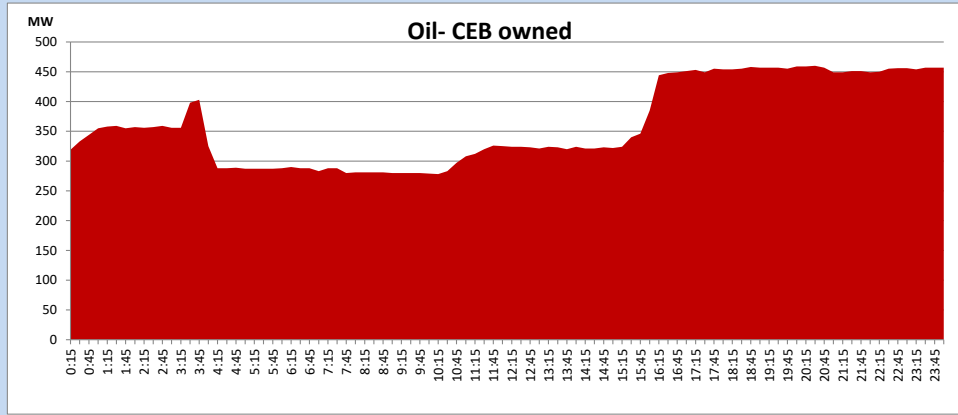
Coal Generation during

April 21, 2024



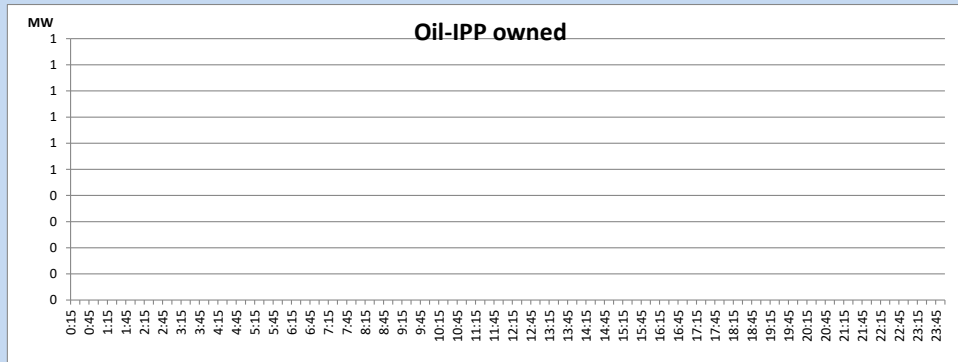
CEB Oil Plant Generation during

April 21, 2024



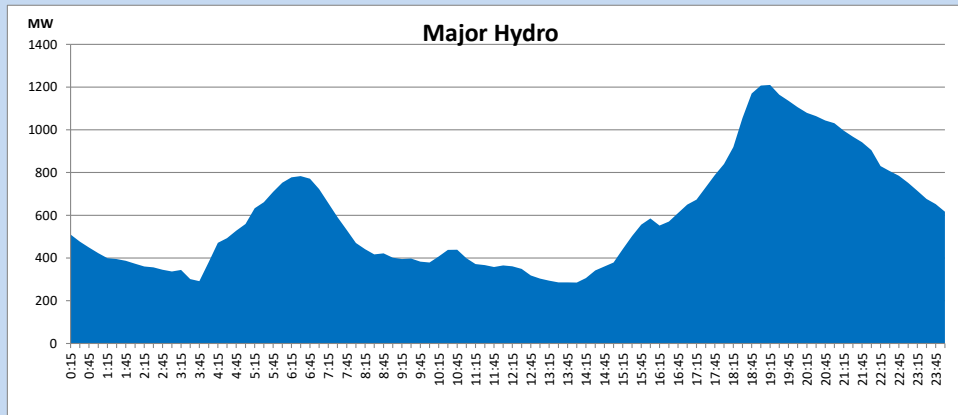
IPP Oil Plant Generation during

April 21, 2024



Major Hydro Generation during

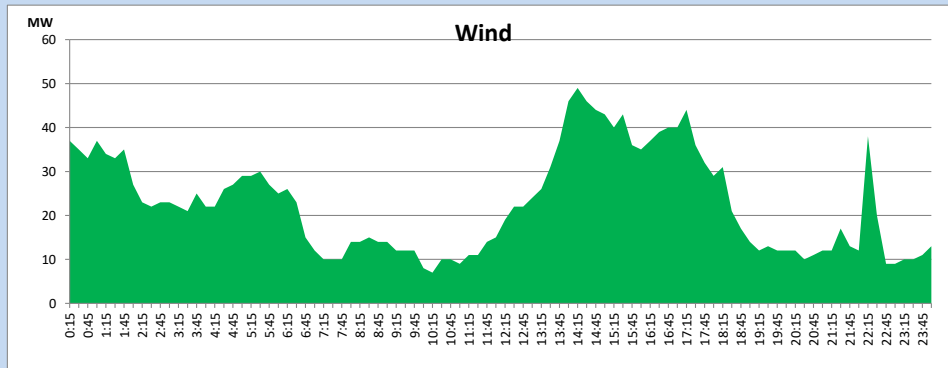
April 21, 2024



Wind Generation during

April 21, 2024

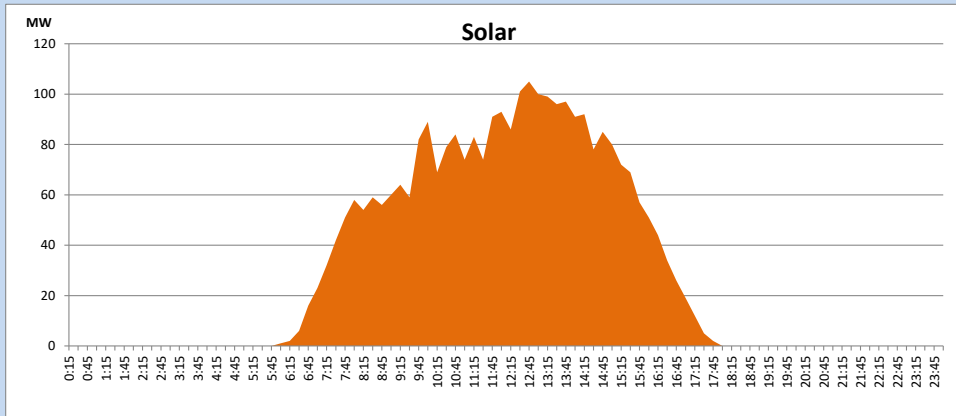
Based on Telemetered Power Stations only



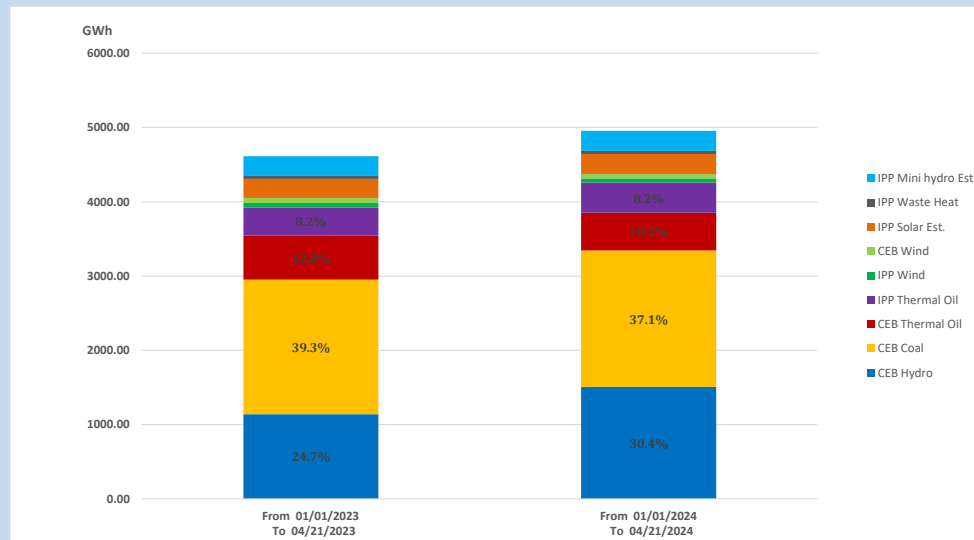
Solar Generation during

April 21, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
From 01/01/2023 To 04/21/2023
From 01/01/2024 To 04/21/2024

4613 GWh
4956 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 21, 2024

- 1) Kalutara 132/33kV T/F 02 which was tripped on 12/04/2024, was normalized at 13:04hrs.
- 2) Kerawalapitiya - New Kerawalapitiya 220kV cct 02 which was tripped on 20/04/2024, was normalized at 17:03hrs.
- 3) New Kerawalapitiya - Sobadhanavi 220kV GT cable tripped from New Kerawalapitiya end due to the operation of directional over current at 17:27hrs, during energizing of Sobadhanavi 220/20kV GT T/F 01 for soak test for the second attempt. Subsequently, Sobadhanavi GT T/F 01 energized for the first time, for soak test from Line 1 Bay 216 of New Kerawalapitiya GSS at 18:39hrs at the third attempt.
- 4) WPS unit 02 tripped at 21:43hrs rejecting 20MW from the system. WPS unit 02 is made available at 22:35hrs.