

Generation and Reservoirs Statistics

April 13, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

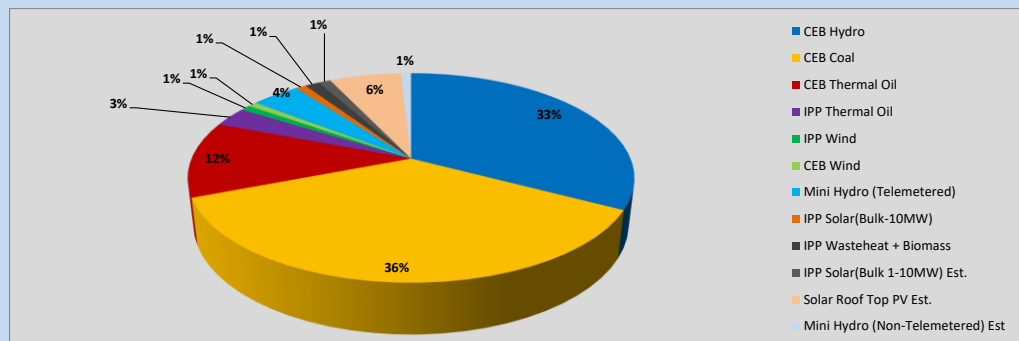


Table 01

	Generation (MWh)
CEB Hydro	10,968
CEB Coal	12,214
CEB Thermal Oil	3,935
IPP Thermal Oil	1,020
IPP Wind	289
CEB Wind	256
Mini Hydro (Telemetered)	1,404
IPP Solar (Bulk)	307
IPP Waste heat + Biomass	415
Total Generation (Excluding estimated figures)	30,808
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	299
* Estimated IPP Solar PV (Bulk 1-10MW)	352
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	33,539

* 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	146	24.29%
CEB Coal	235	39.15%
CEB Thermal Oil	81	13.45%
IPP Thermal	68	11.35%
SPP Wind	4	0.59%
CEB Wind	3	0.54%
Mini Hydro *	22	3.74%
IPP Solar *	37	6.11%
IPP Waste heat + BMP	5	0.77%
Total	600	

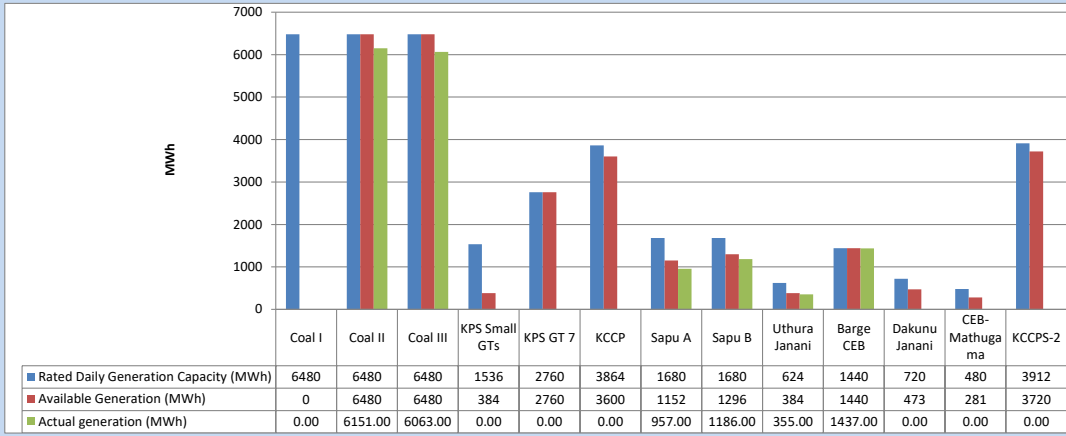
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,409	30.44%
CEB Coal	1,711	36.97%
CEB Thermal Oil	460	9.93%
IPP Thermal	399	8.63%
SPP Wind	50	1.08%
CEB Wind	58	1.26%
Mini Hydro *	258	5.56%
IPP Solar *	246	5.31%
IPP Waste heat	38	0.82%
Total	4,629	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

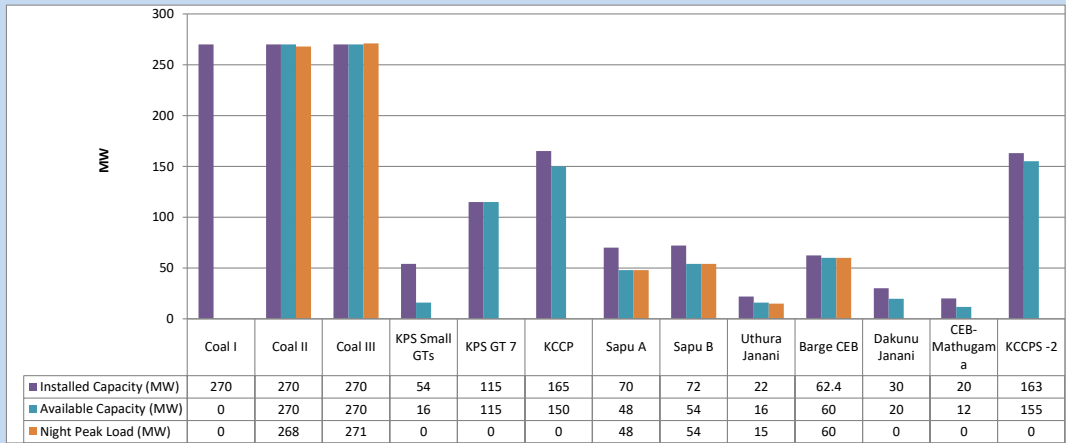
April 13, 2024



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

April 14, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

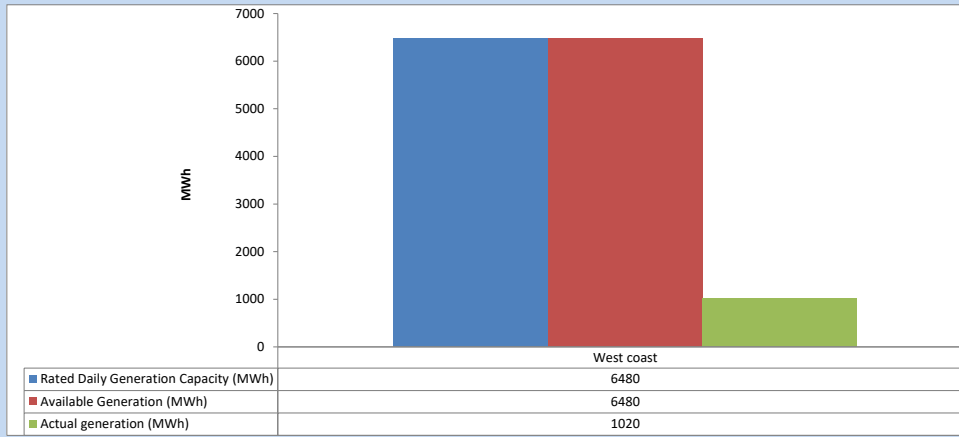


Plant availability is recorded at 6.00 am on

April 14, 2024

5. IPP owned Thermal Plant Dispatch

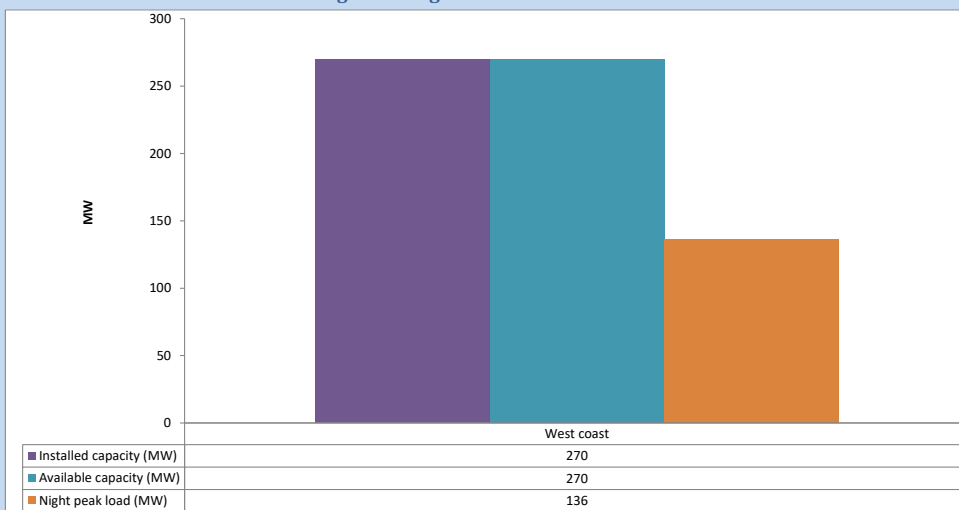
April 13, 2024



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

April 14, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

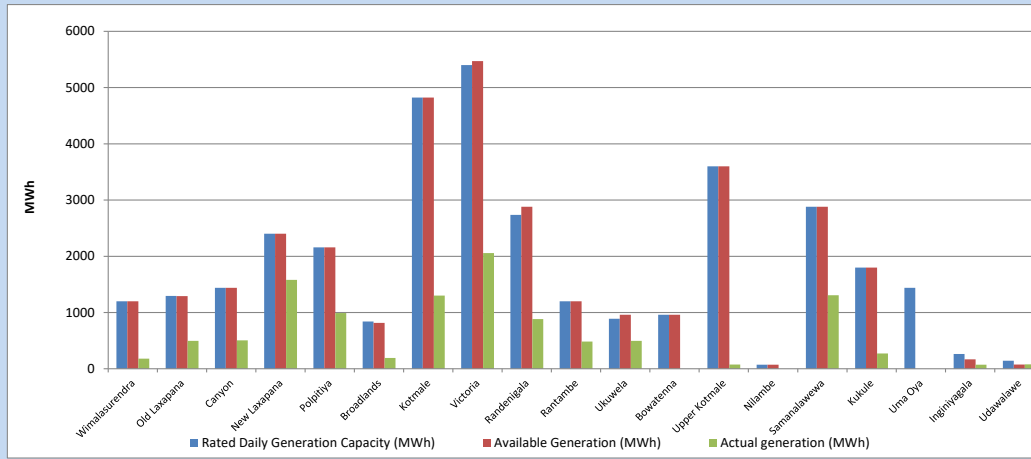


Plant availability is recorded at 6.00 am on

April 14, 2024

7. Major Hydro Plant Dispatch

April 13, 2024

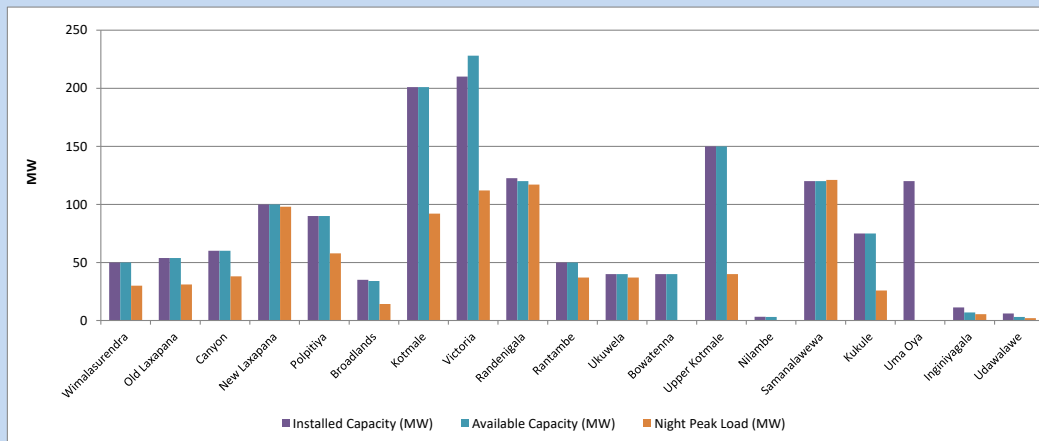


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 14, 2024

8. Major Hydro Plant Loading at Night Peak

April 13, 2024



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

April 14, 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	30	180
Old Laxapana	54	54	31	497
Canyon	60	60	38	505
New Laxapana	100	100	98	1,581
Polpitiya	90	90	58	990
Broadlands	35	34	14	191
Kotmale	201	201	92	1,300
Victoria	210	228	112	2,058
Randenigala	123	120	117	884
Rantambe	50	50	37	483
Ukuwela	40	40	37	495
Bowatenna	40	40	0	0
Upper Kotmale	150	150	40	76
Nilambe	3	3	0	0
Samanalawewa	120	120	121	1,308
Kukule	75	75	26	272
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	71
Udawalawe	6	3	2	78
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	6,151
Puttalam Coal III	270	270	271	6,063
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	48	957
Sapugaskanda B	72	54	54	1,186
Uthura Janani	22	16	15	355
Barge CEB	62	60	60	1,437
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	136	1,020
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,880	1,821	30,809

Note-

Plant availability is the availability recorded at 6 am on

April 14, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 13, 2024

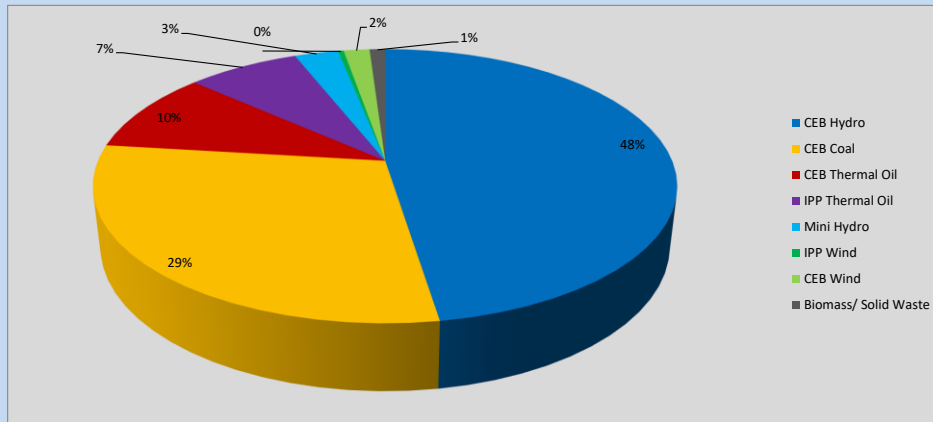


Table 06

CEB Hydro	871	MW
CEB Coal	539	MW
CEB Thermal Oil	177	MW
IPP Thermal Oil	136	MW
Mini Hydro (Telemetered)	53	MW
IPP Wind	6.9	MW
CEB Wind	31.4	MW
Biomass/ Solid Waste	19	MW

Recorded Peak Demand Data

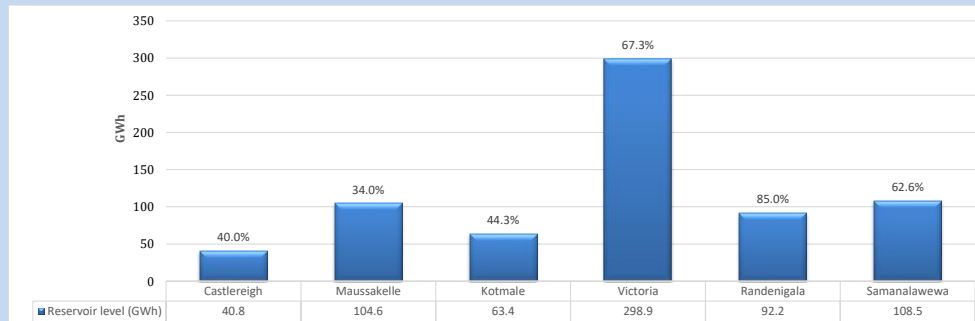
Table 07

Night Peak*	1,834	MW
Day Peak Maximum Demand	1,370	MW
Day Peak Minimum Demand	968	MW
Off Peak Minimum Demand	1,118	MW

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

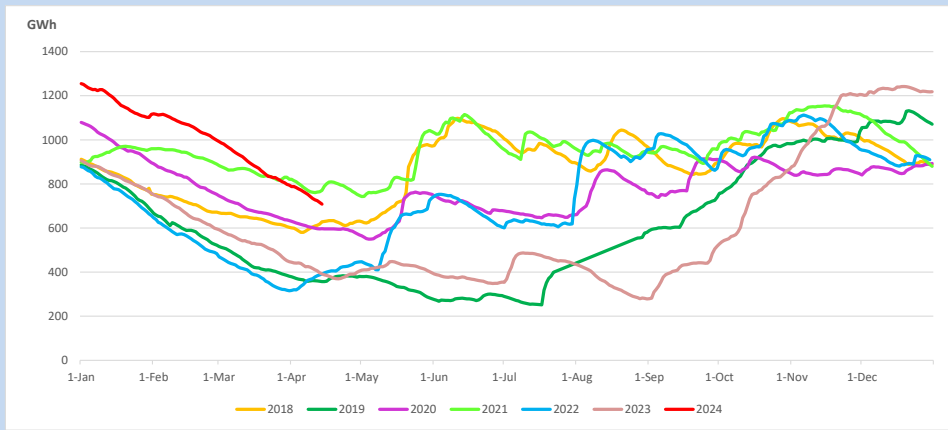
Reservoir Levels -

as at 06.00 Hr on April 14, 2024

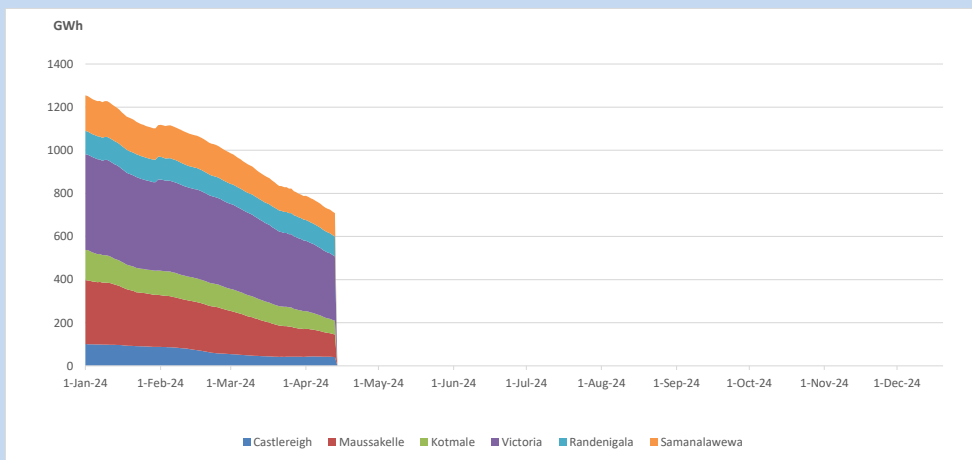


Total Reservoir Level
708.4 GWh
% of Total capacity
55.4%

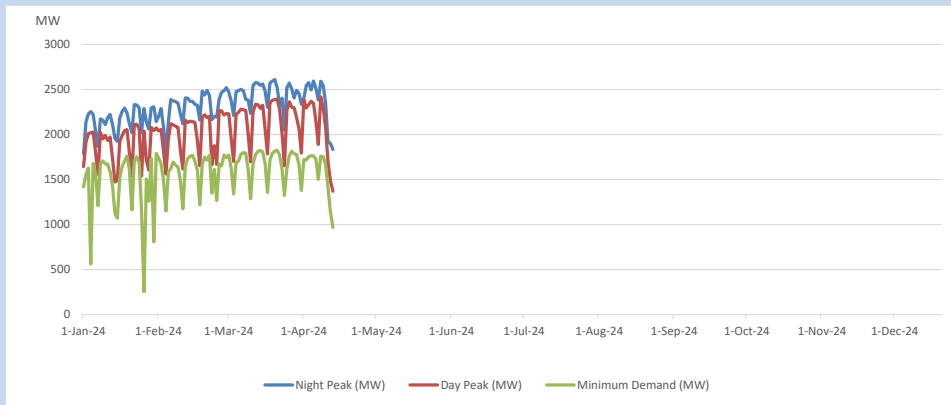
11. Comparison of Total Reservoir Storage Levels with Past Years



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



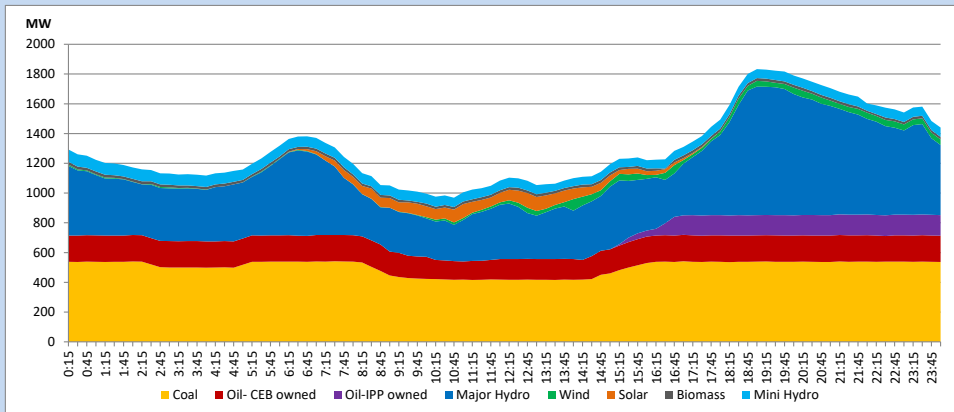
13. Variation of Demand during the current year



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

14. Daily Load Curve

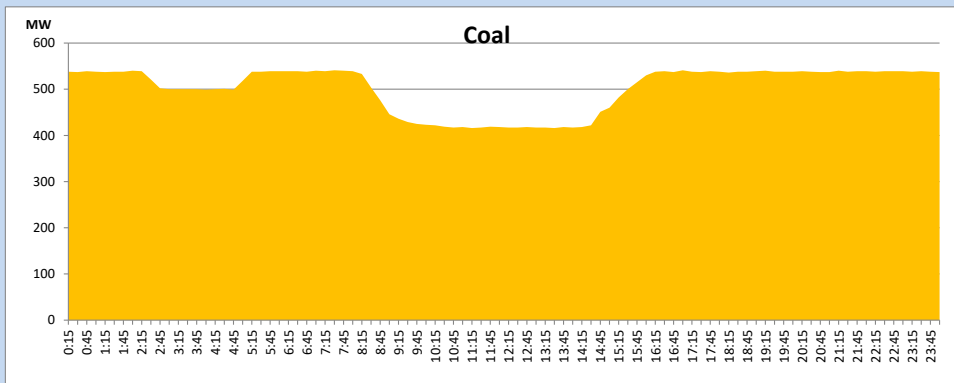
April 13, 2024



Solar and wind data is based on Telemetered Power Stations only

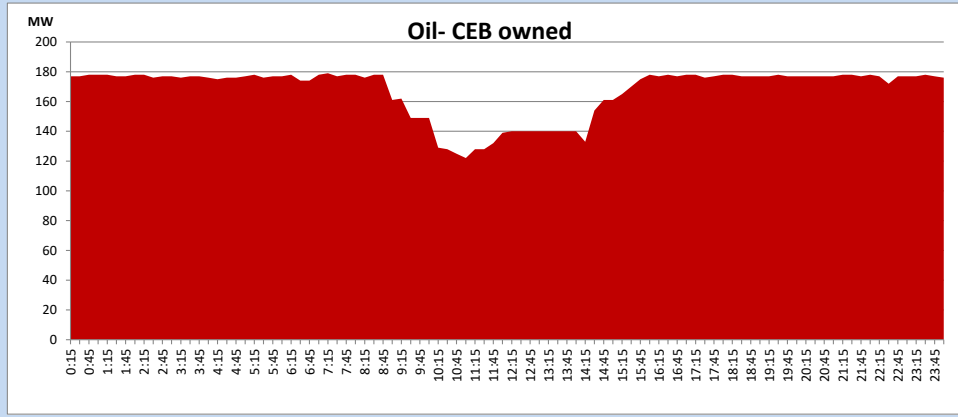
Coal Generation during

April 13, 2024



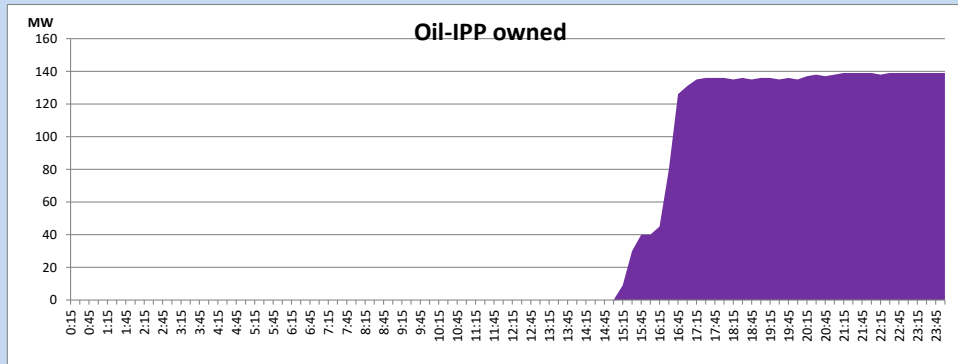
CEB Oil Plant Generation during

April 13, 2024



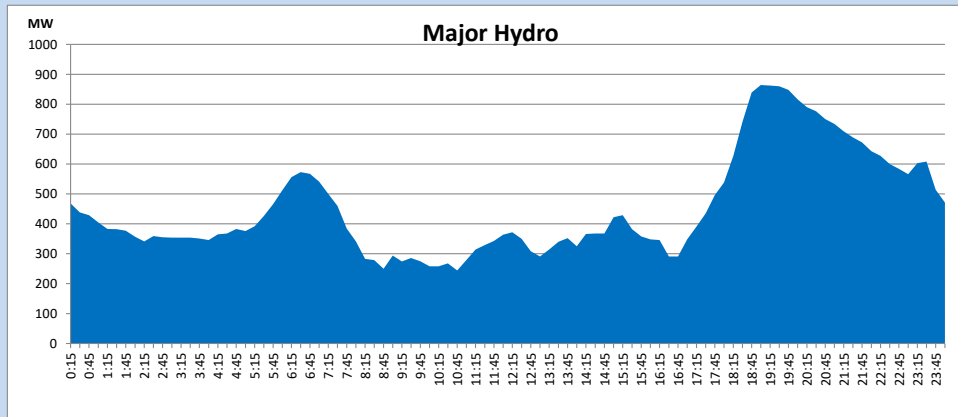
IPP Oil Plant Generation during

April 13, 2024



Major Hydro Generation during

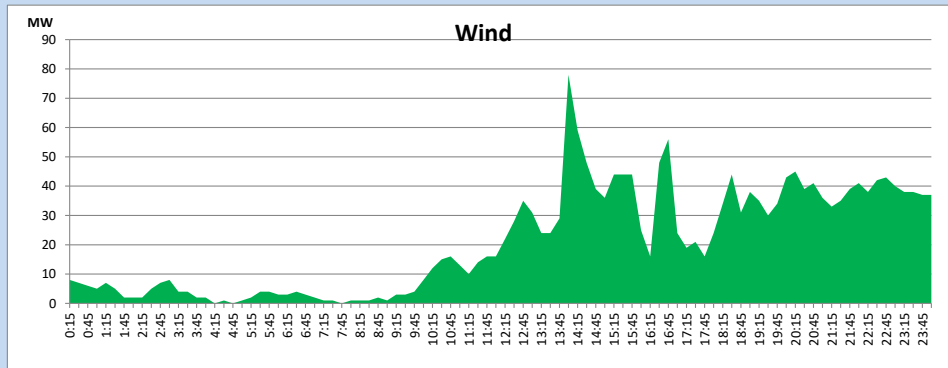
April 13, 2024



Wind Generation during

April 13, 2024

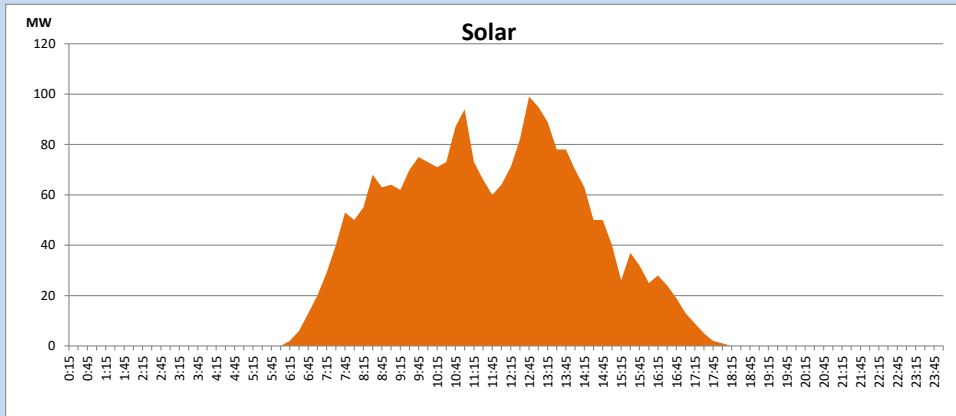
Based on Telemetered Power Stations only



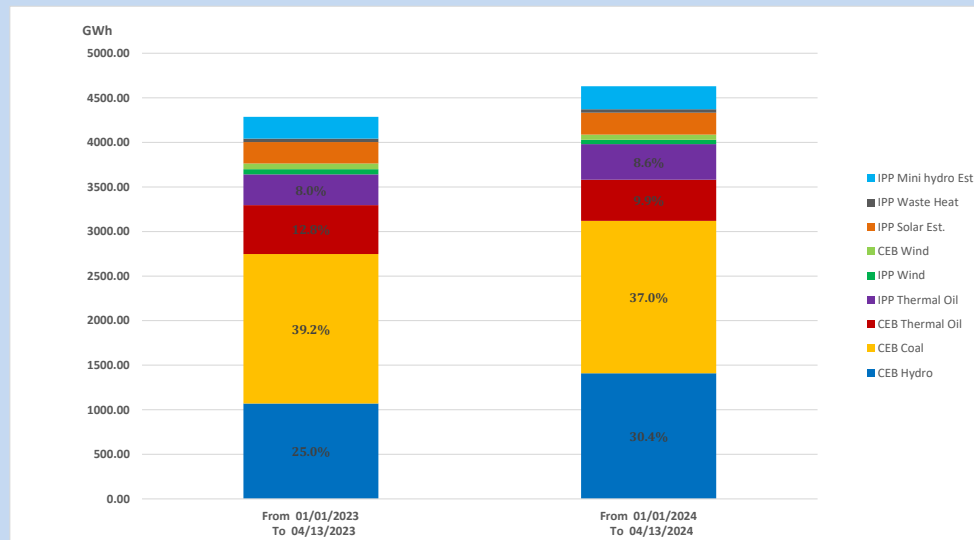
Solar Generation during

April 13, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 04/13/2023
 From 01/01/2024 To 04/13/2024

4287 GWh
 4629 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
 Unused 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 13, 2024

Nil.