

Generation and Reservoirs Statistics

April 12, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

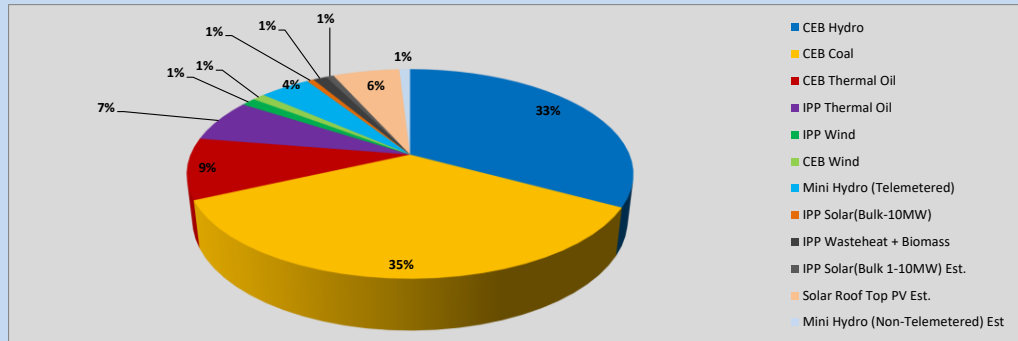


Table 01

	Generation (MWh)
CEB Hydro	11,861
CEB Coal	12,706
CEB Thermal Oil	3,395
IPP Thermal Oil	2,374
IPP Wind	446
CEB Wind	392
Mini Hydro (Telemetered)	1,576
IPP Solar (Bulk)	212
IPP Waste heat + Biomass	426
Total Generation (Excluding estimated figures)	33,388
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	336
* Estimated IPP Solar PV (Bulk 1-10MW)	238
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	36,042

* 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	135	23.80%
CEB Coal	223	39.32%
CEB Thermal Oil	77	13.55%
IPP Thermal	67	11.84%
SPP Wind	3	0.58%
CEB Wind	3	0.53%
Mini Hydro *	21	3.66%
IPP Solar *	34	5.99%
IPP Waste heat + BMP	4	0.74%
Total	566	

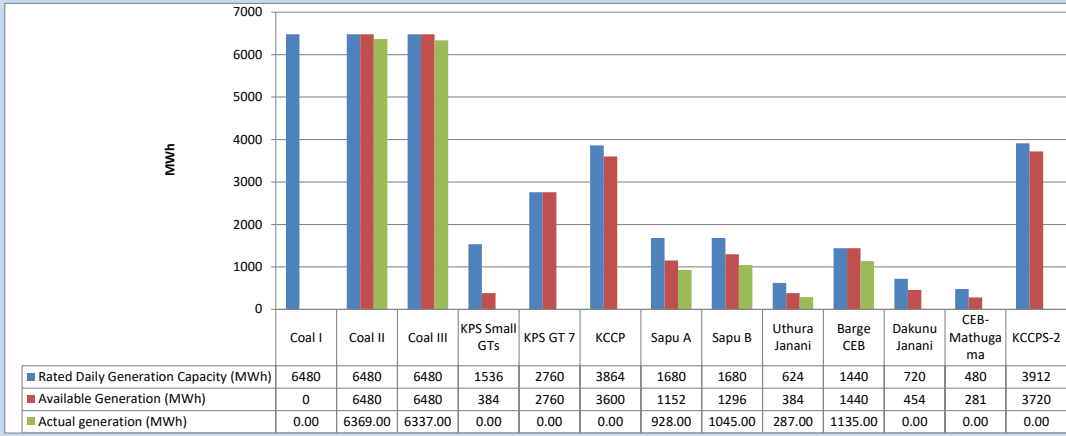
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,398	30.42%
CEB Coal	1,699	36.97%
CEB Thermal Oil	456	9.92%
IPP Thermal	398	8.67%
SPP Wind	50	1.08%
CEB Wind	58	1.26%
Mini Hydro *	256	5.57%
IPP Solar *	243	5.29%
IPP Waste heat	37	0.81%
Total	4,596	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

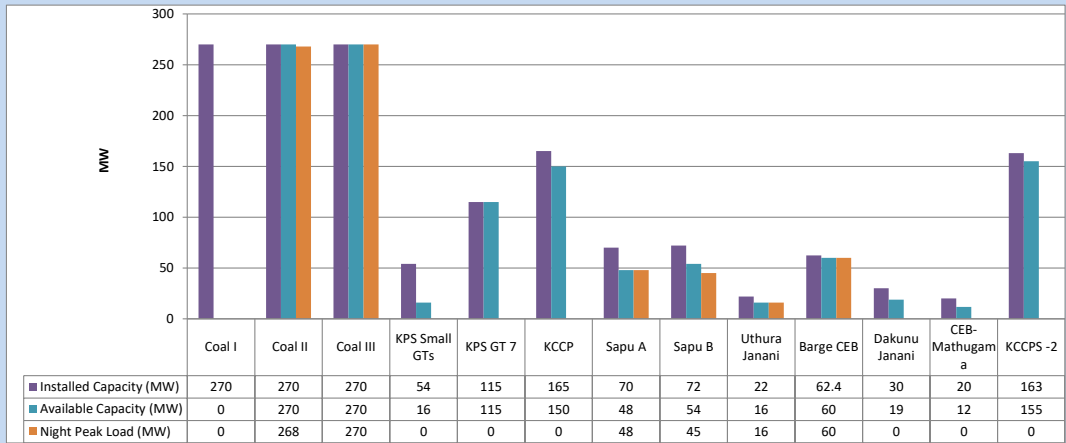
April 12, 2024



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

April 13, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

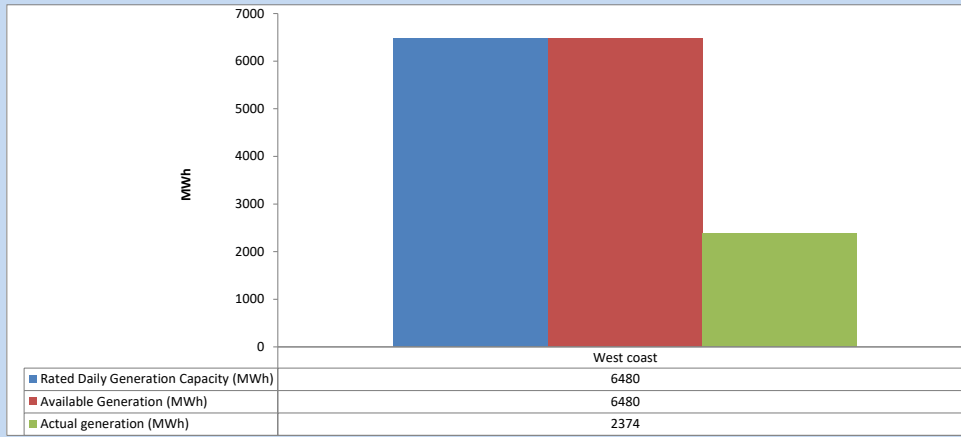


Plant availability is recorded at 6.00 am on

April 13, 2024

5. IPP owned Thermal Plant Dispatch

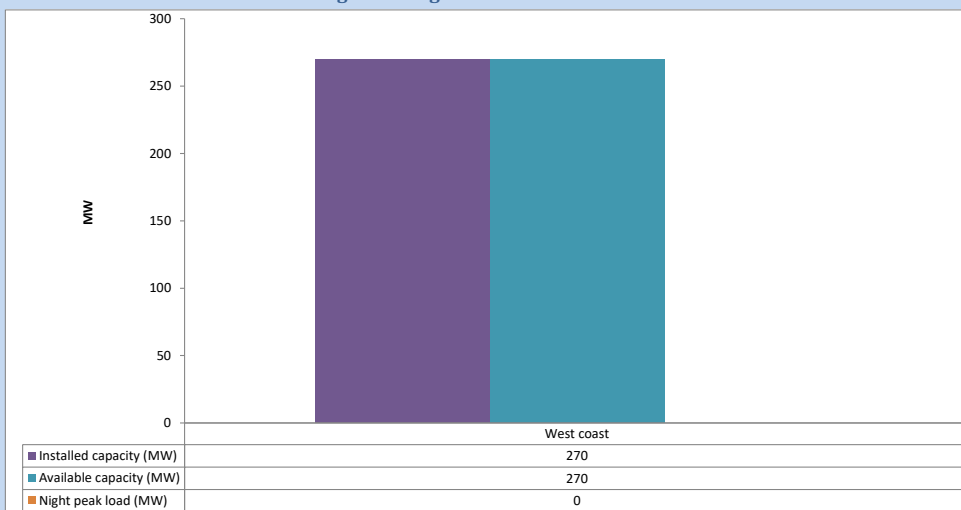
April 12, 2024



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

April 13, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

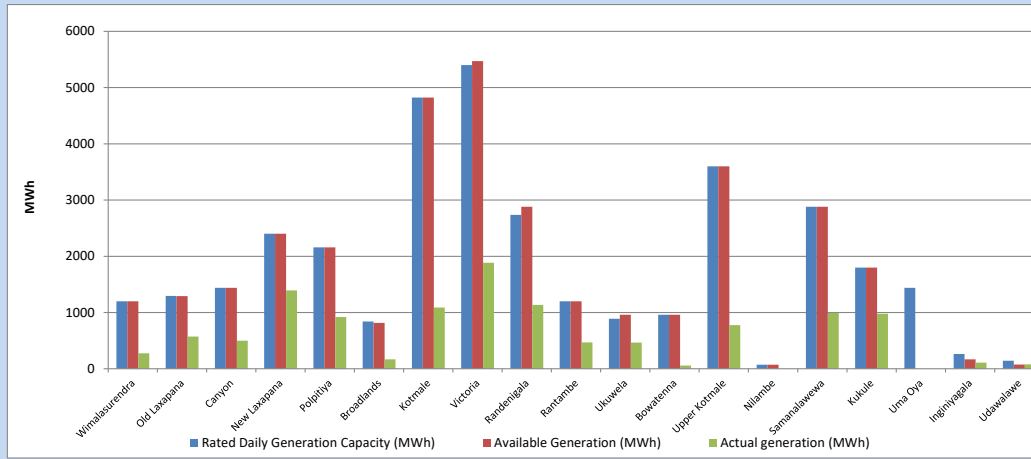


Plant availability is recorded at 6.00 am on

April 13, 2024

7. Major Hydro Plant Dispatch

April 12, 2024

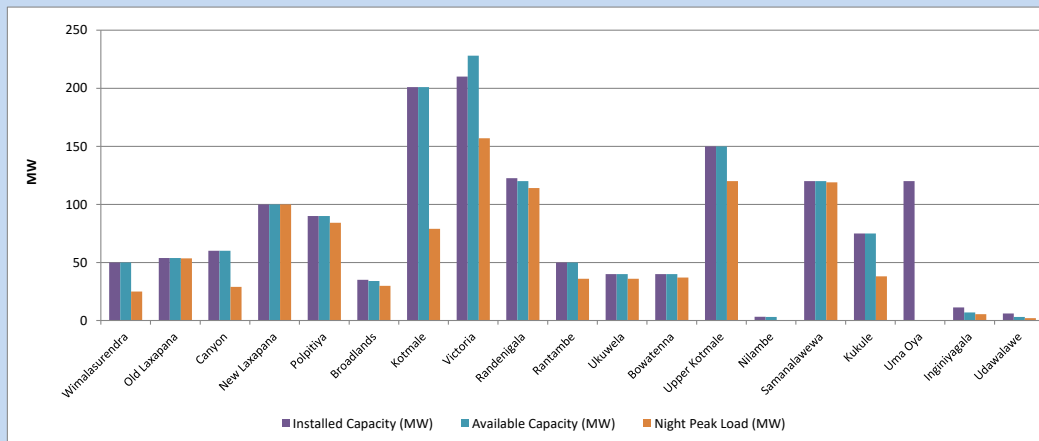


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 13, 2024

8. Major Hydro Plant Loading at Night Peak

April 12, 2024



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

April 13, 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	25	275
Old Laxapana	54	54	54	573
Canyon	60	60	29	499
New Laxapana	100	100	100	1,393
Polpitiya	90	90	84	920
Broadlands	35	34	30	168
Kotmale	201	201	79	1,090
Victoria	210	228	157	1,886
Randenigala	123	120	114	1,134
Rantambe	50	50	36	467
Ukuwela	40	40	36	464
Bowatenna	40	40	37	56
Upper Kotmale	150	150	120	776
Nilambe	3	3	0	0
Samanalawewa	120	120	119	994
Kukule	75	75	38	980
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	108
Udawalawe	6	3	2	78
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	268	6,369
Puttalam Coal III	270	270	270	6,337
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	48	48	928
Sapugaskanda B	72	54	45	1,045
Uthura Janani	22	16	16	287
Barge CEB	62	60	60	1,135
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	155	0	0
West Coast	270	270	0	2,374
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,880	1,887	33,388

Note-

Plant availability is the availability recorded at 6 am on

April 13, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 12, 2024

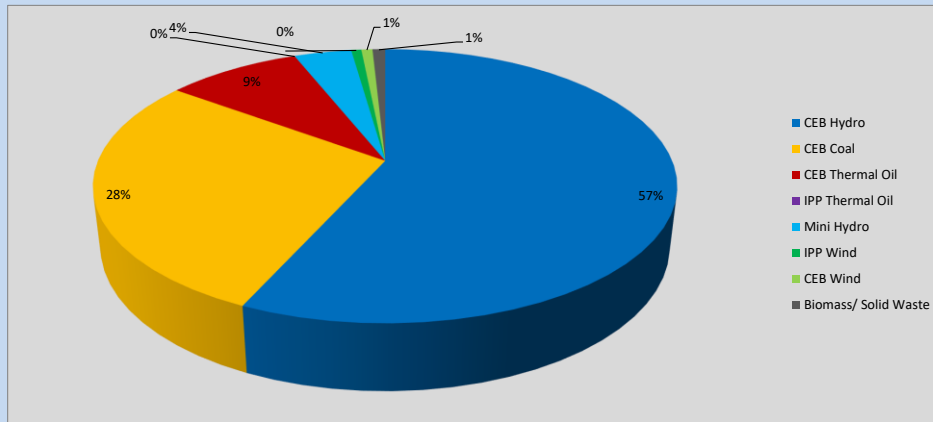


Table 06

CEB Hydro	1079	MW
CEB Coal	538	MW
CEB Thermal Oil	169	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	72	MW
IPP Wind	12.7	MW
CEB Wind	14	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

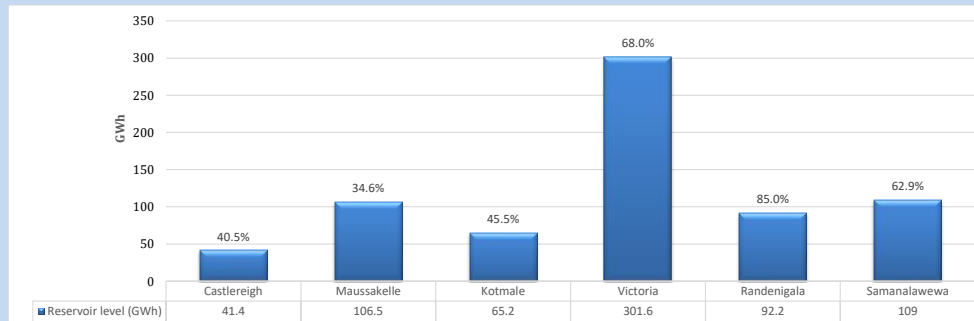
Table 07

Night Peak*	1,901	MW
Day Peak Maximum Demand	1,487	MW
Day Peak Minimum Demand	1,139	MW
Off Peak Minimum Demand	1,226	MW

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

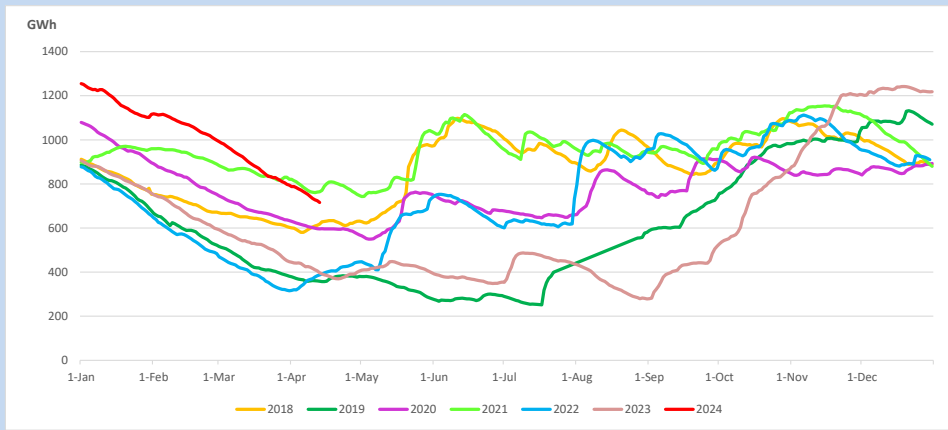
Reservoir Levels -

as at 06.00 Hr on April 13, 2024

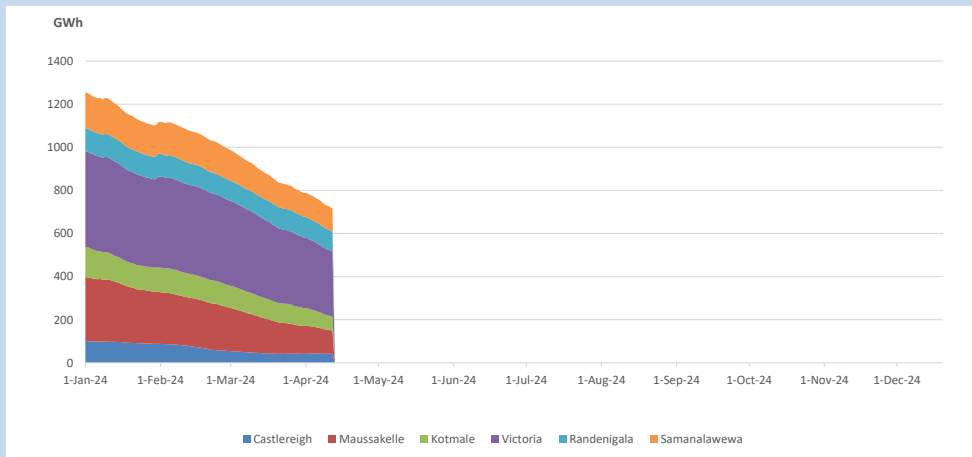


Total Reservoir Level 715.9 GWh
 % of Total capacity 56.0%

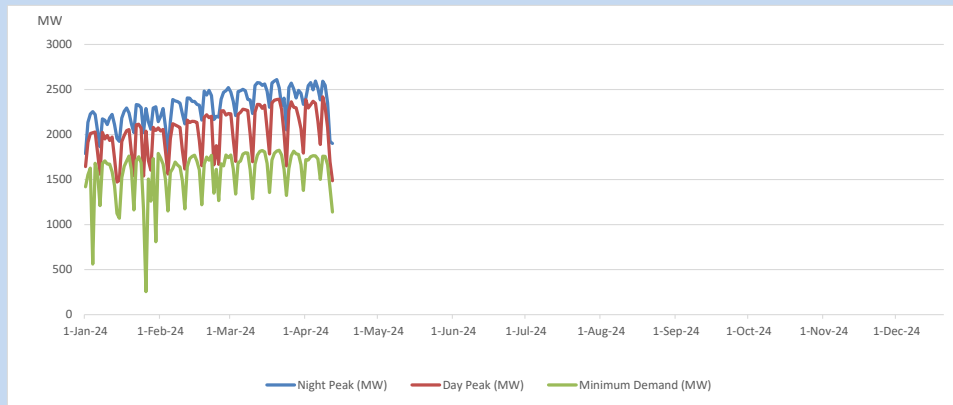
11. Comparison of Total Reservoir Storage Levels with Past Years



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



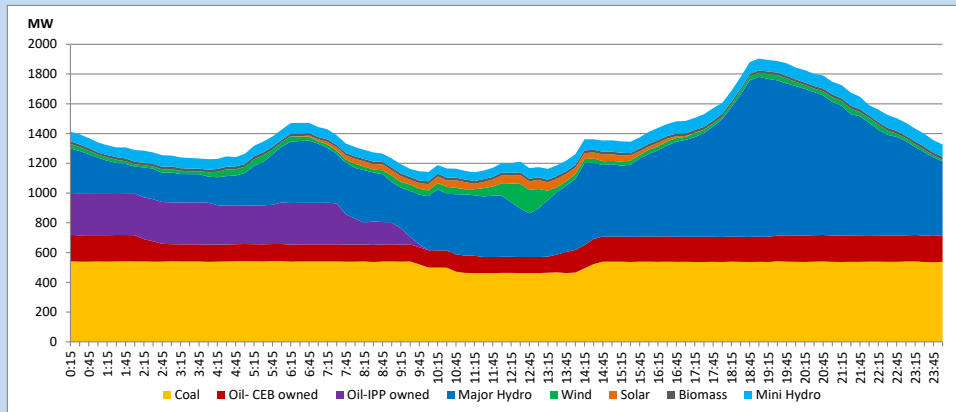
13. Variation of Demand during the current year



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

14. Daily Load Curve

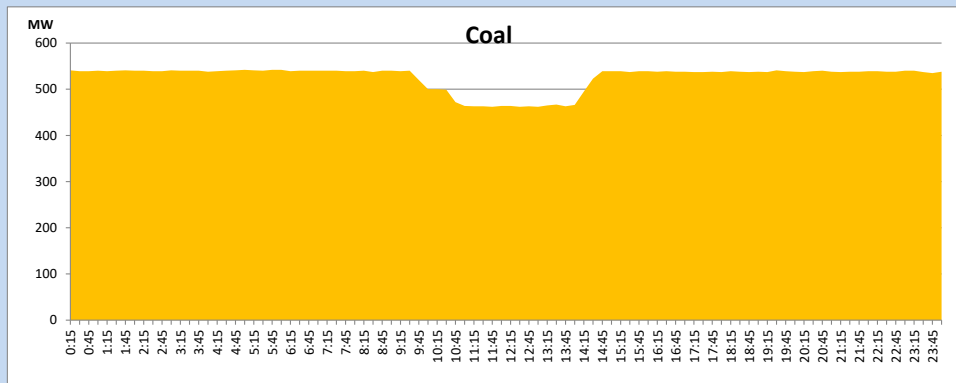
April 12, 2024



Solar and wind data is based on Telemetered Power Stations only

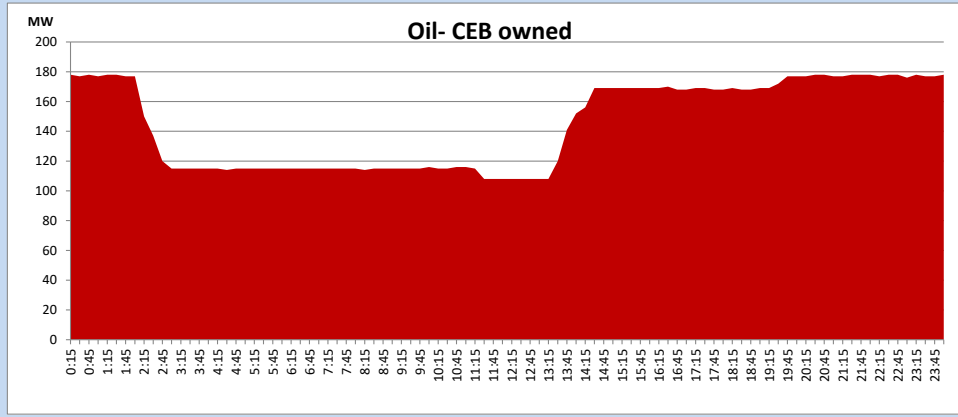
Coal Generation during

April 12, 2024



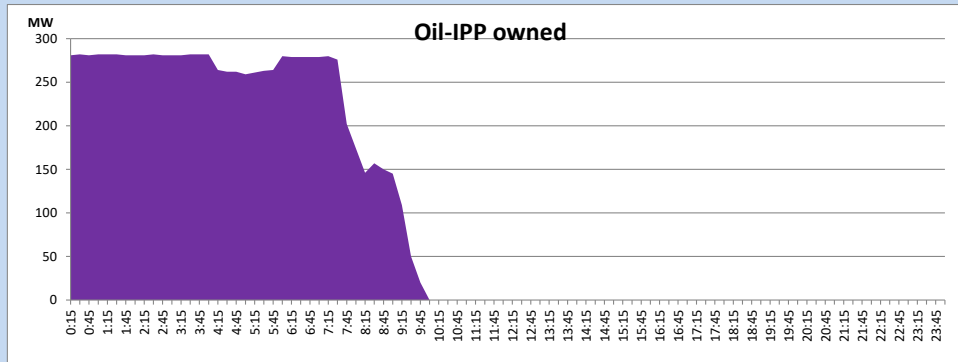
CEB Oil Plant Generation during

April 12, 2024



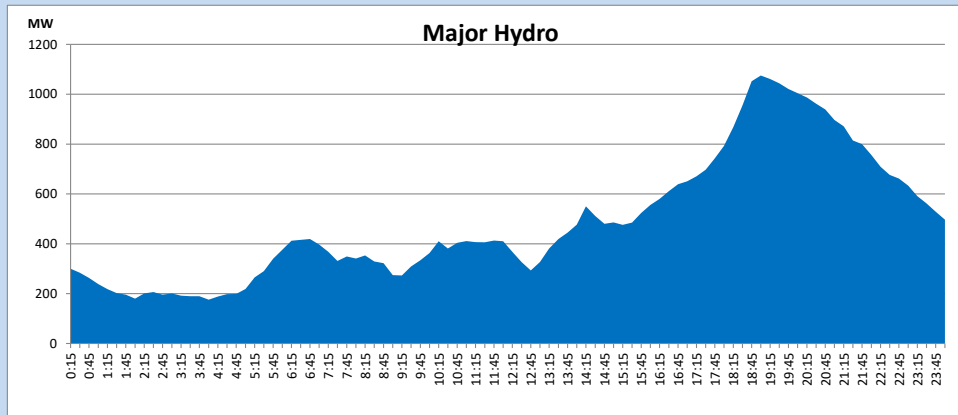
IPP Oil Plant Generation during

April 12, 2024



Major Hydro Generation during

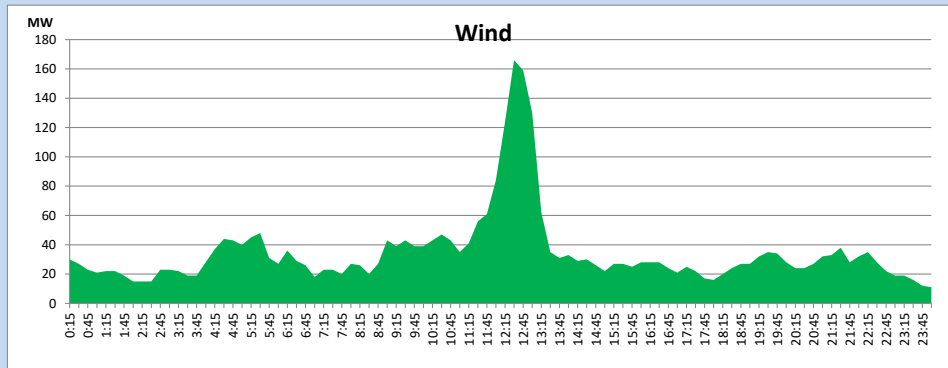
April 12, 2024



Wind Generation during

April 12, 2024

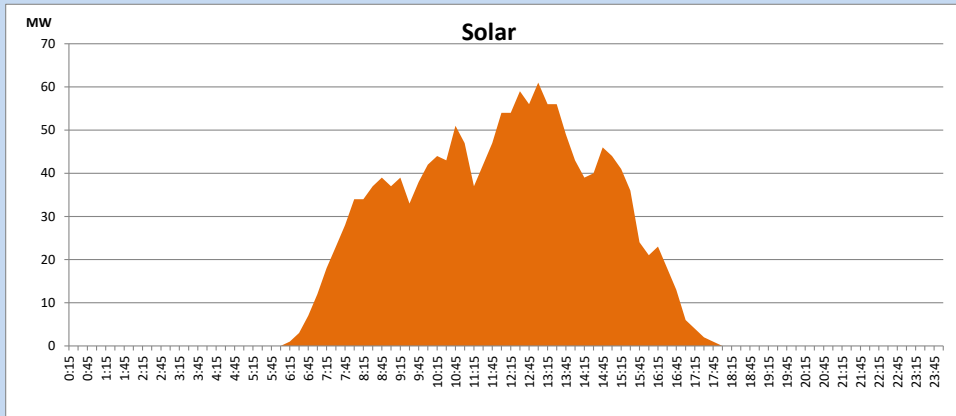
Based on Telemetered Power Stations only



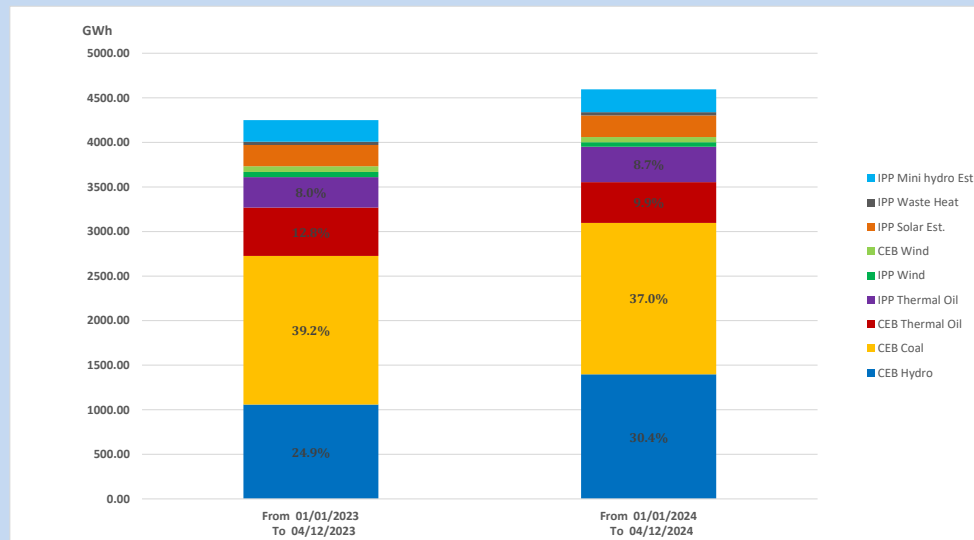
Solar Generation during

April 12, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 04/12/2023

4250 GWh

From 01/01/2024 To 04/12/2024

4596 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 12, 2024

- 1) Kaluthara 132/33kV T/F 02 tripped from both sides at 13:58hrs due to the operation of T/F differential and REF protection. The T/F is yet to be restored
- 2) Naula-Ukuwela cct which tripped on 11.04.2024 was restored at 17:05hrs.