

Generation and Reservoirs Statistics

April 1, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

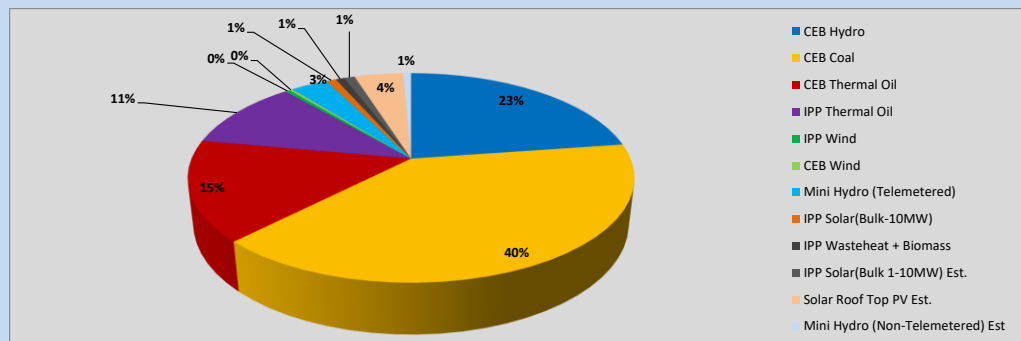


Table 01

	Generation (MWh)
CEB Hydro	11,181
CEB Coal	19,511
CEB Thermal Oil	7,649
IPP Thermal Oil	5,295
IPP Wind	197
CEB Wind	138
Mini Hydro (Telemetered)	1,587
IPP Solar (Bulk)	421
IPP Waste heat + Biomass	367
Total Generation (Excluding estimated figures)	46,346
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	338
* Estimated IPP Solar PV (Bulk 1-10MW)	454
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	49,218

* 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	11	22.71%
CEB Coal	20	39.64%
CEB Thermal Oil	8	15.54%
IPP Thermal	5	10.75%
SPP Wind	0	0.41%
CEB Wind	0	0.28%
Mini Hydro *	2	3.92%
IPP Solar *	3	5.99%
IPP Waste heat + BMP	0	0.75%
Total	49	

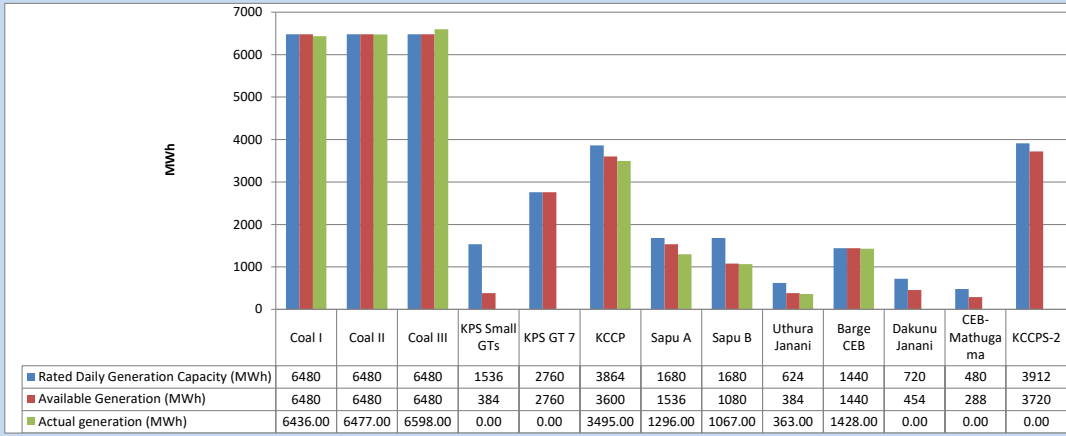
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,274	31.25%
CEB Coal	1,496	36.68%
CEB Thermal Oil	387	9.48%
IPP Thermal	337	8.25%
SPP Wind	47	1.14%
CEB Wind	55	1.35%
Mini Hydro *	237	5.81%
IPP Solar *	212	5.20%
IPP Waste heat	34	0.82%
Total	4,079	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

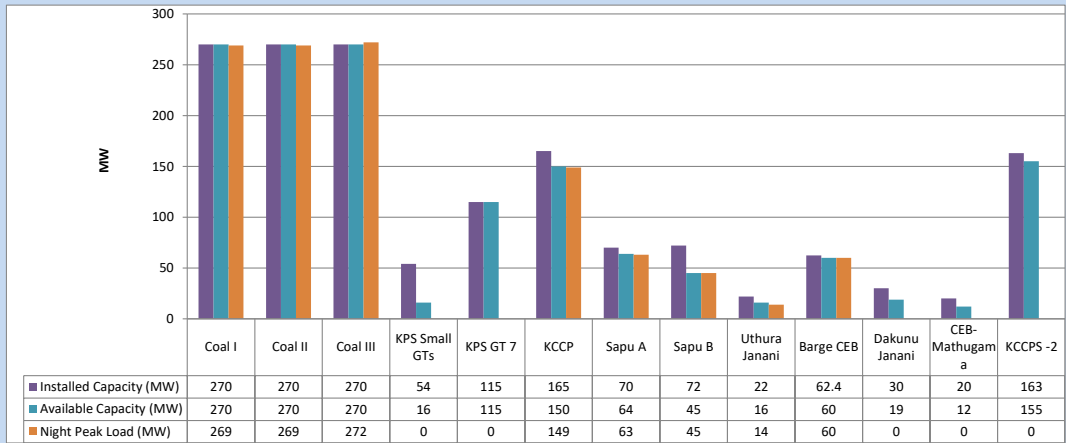
April 1, 2024



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

April 2, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

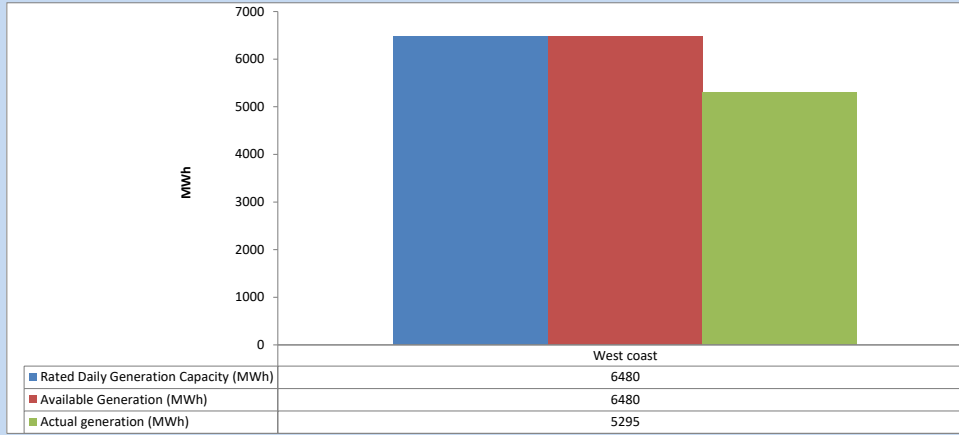


Plant availability is recorded at 6.00 am on

April 2, 2024

5. IPP owned Thermal Plant Dispatch

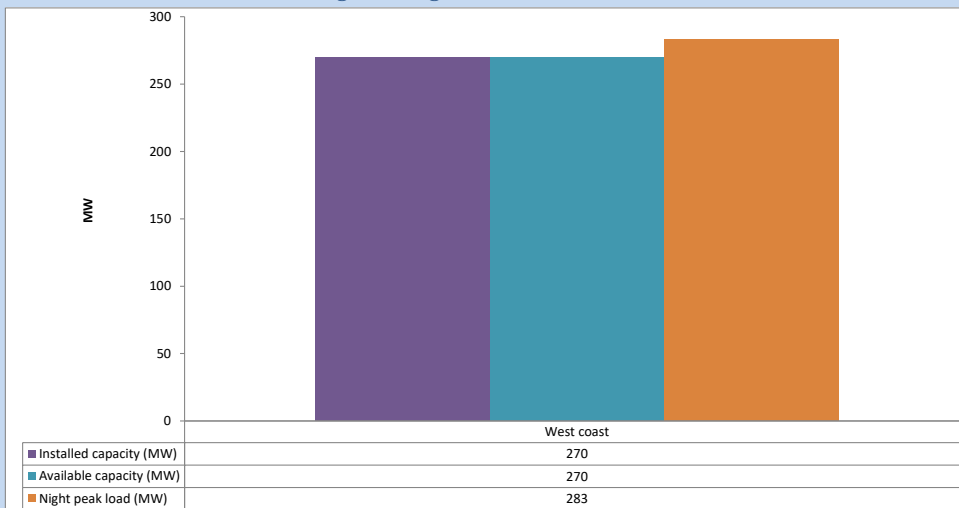
April 1, 2024



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

April 2, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

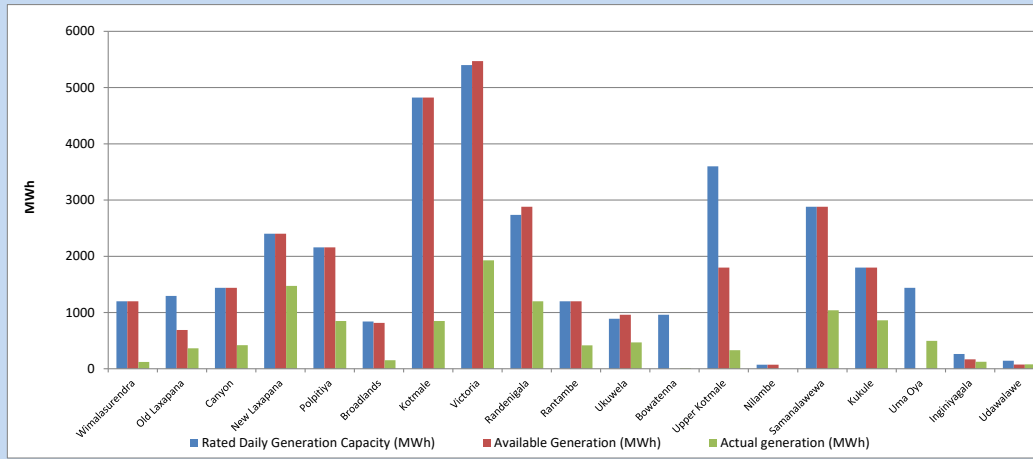


Plant availability is recorded at 6.00 am on

April 2, 2024

7. Major Hydro Plant Dispatch

April 1, 2024

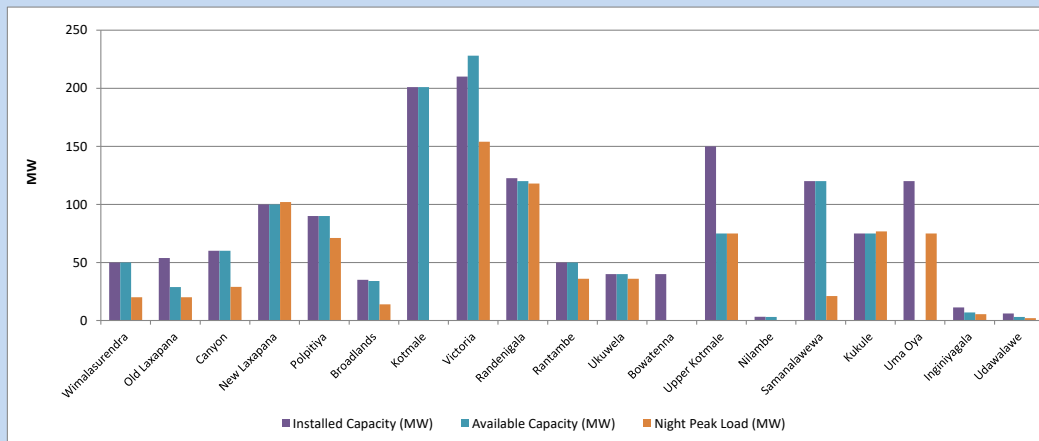


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 2, 2024

8. Major Hydro Plant Loading at Night Peak

April 1, 2024



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

April 2, 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	20	122
Old Laxapana	54	29	20	364
Canyon	60	60	29	418
New Laxapana	100	100	102	1,474
Polpitiya	90	90	71	850
Broadlands	35	34	14	152
Kotmale	201	201	0	850
Victoria	210	228	154	1,929
Randenigala	123	120	118	1,199
Rantambe	50	50	36	415
Ukuwela	40	40	36	467
Bowatenna	40	0	0	11
Upper Kotmale	150	75	75	329
Nilambe	3	3	0	0
Samanalawewa	120	120	21	1,040
Kukule	75	75	77	861
Uma Oya (Testing)	120	0	75	497
Inginiyagala	11	7	6	125
Udawalawe	6	3	2	78
Puttalam Coal I	270	270	269	6,436
Puttalam Coal II	270	270	269	6,477
Puttalam Coal III	270	270	272	6,598
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	149	3,495
Sapugaskanda A	70	64	63	1,296
Sapugaskanda B	72	45	45	1,067
Uthura Janani	22	16	14	363
Barge CEB	62	60	60	1,428
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	283	5,295
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	3,017	2,389	46,346

Note-

Plant availability is the availability recorded at 6 am on

April 2, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 1, 2024

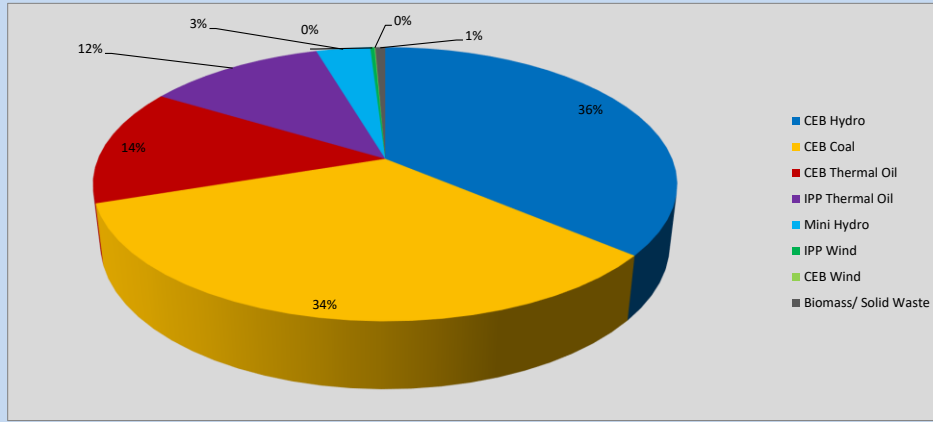


Table 06

CEB Hydro	868	MW
CEB Coal	810	MW
CEB Thermal Oil	331	MW
IPP Thermal Oil	283	MW
Mini Hydro (Telemetered)	86	MW
IPP Wind	6.8	MW
CEB Wind	1.1	MW
Biomass/ Solid Waste	16	MW

Recorded Peak Demand Data

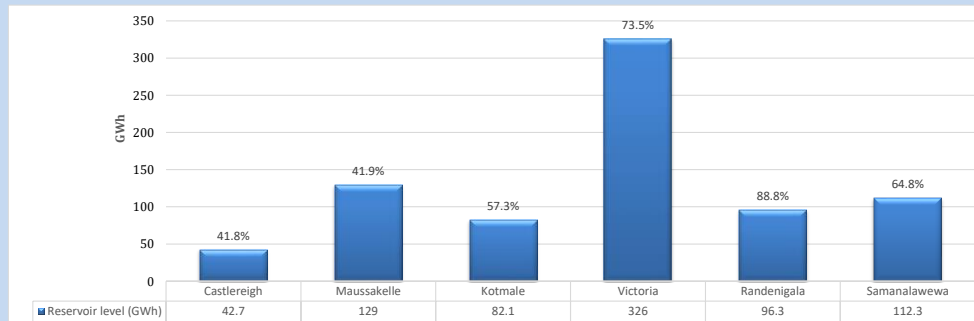
Table 07

Night Peak*	2,402	MW
Day Peak Maximum Demand	2,388	MW
Day Peak Minimum Demand	1,720	MW
Off Peak Minimum Demand	1,484	MW

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

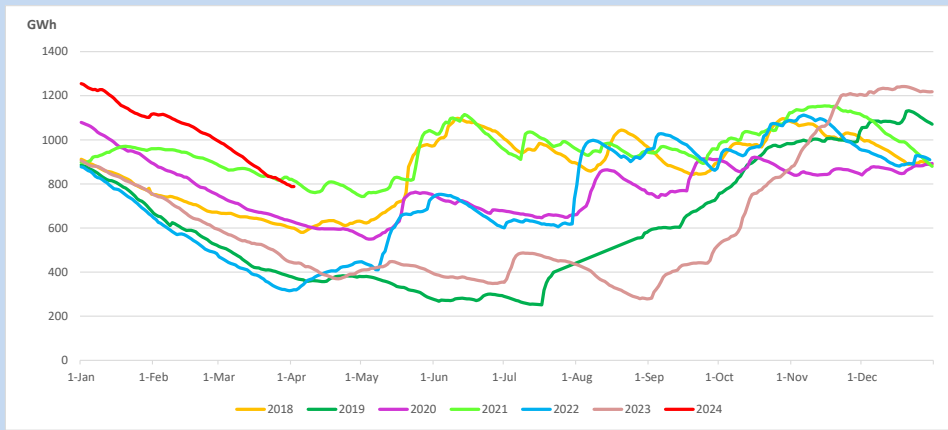
Reservoir Levels -

as at 06.00 Hr on April 2, 2024

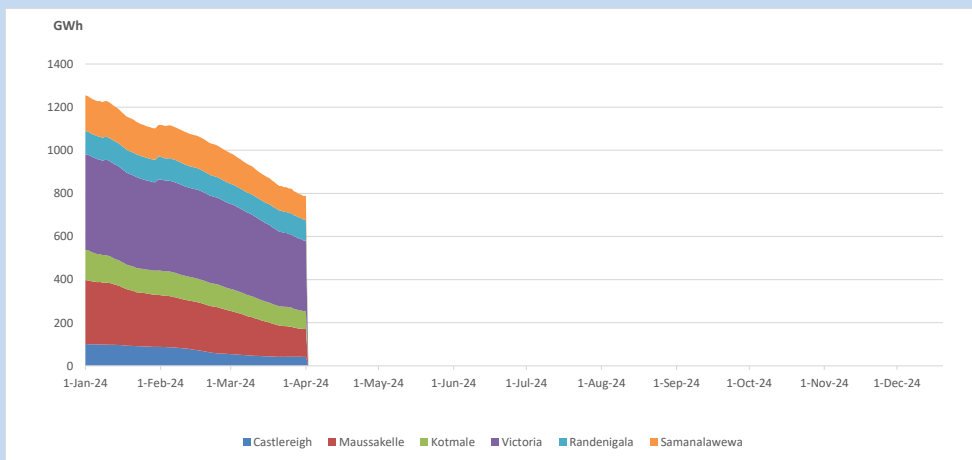


Total Reservoir Level 788.4 GWh
% of Total capacity 61.7%

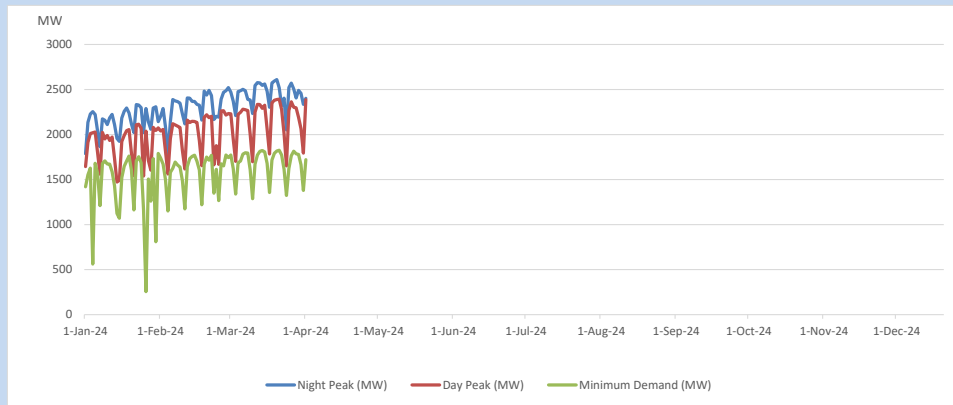
11. Comparison of Total Reservoir Storage Levels with Past Years



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



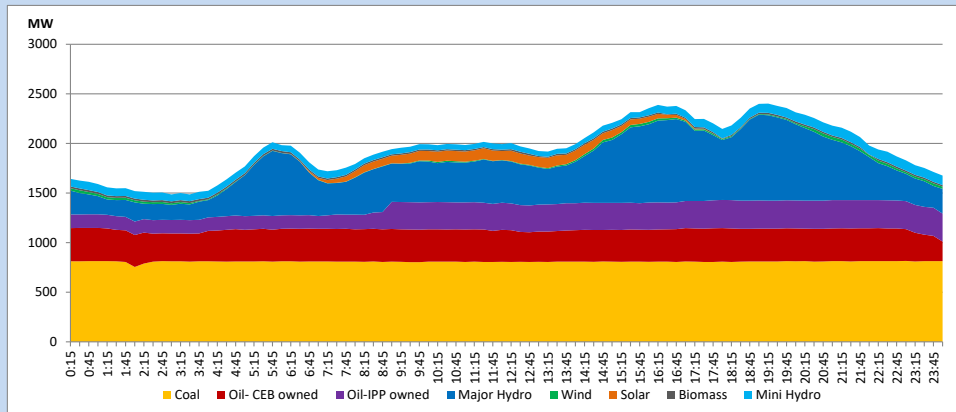
13. Variation of Demand during the current year



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

14. Daily Load Curve

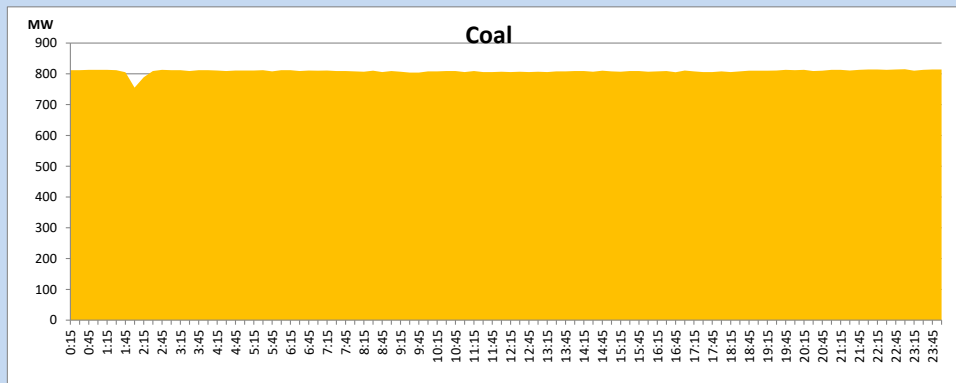
April 1, 2024



Solar and wind data is based on Telemetered Power Stations only

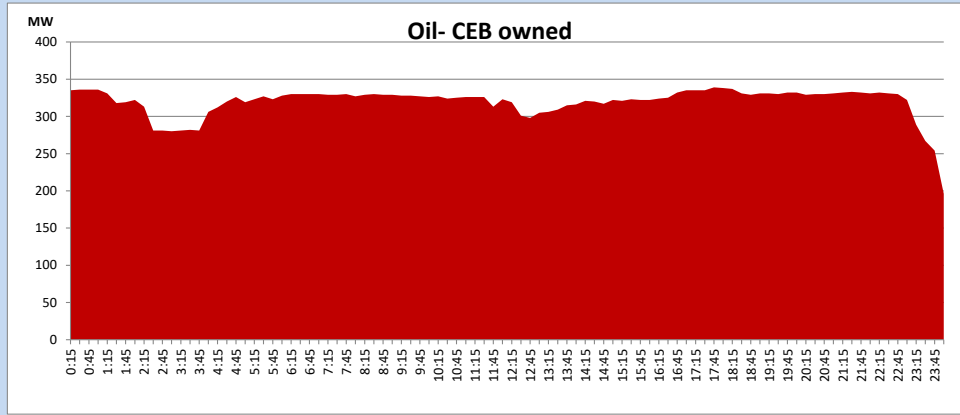
Coal Generation during

April 1, 2024



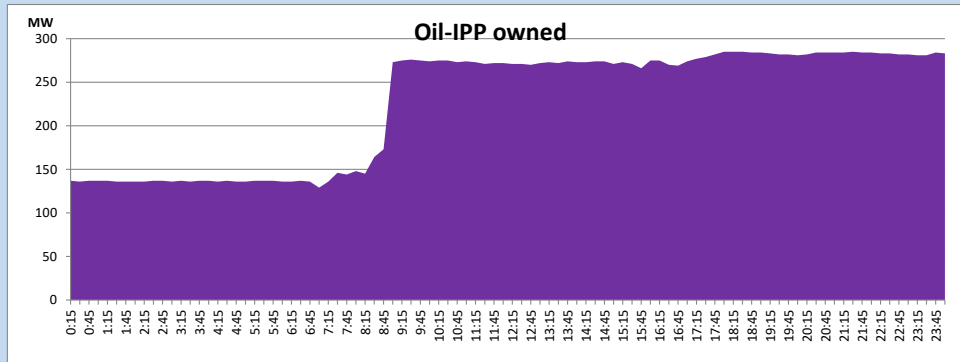
CEB Oil Plant Generation during

April 1, 2024



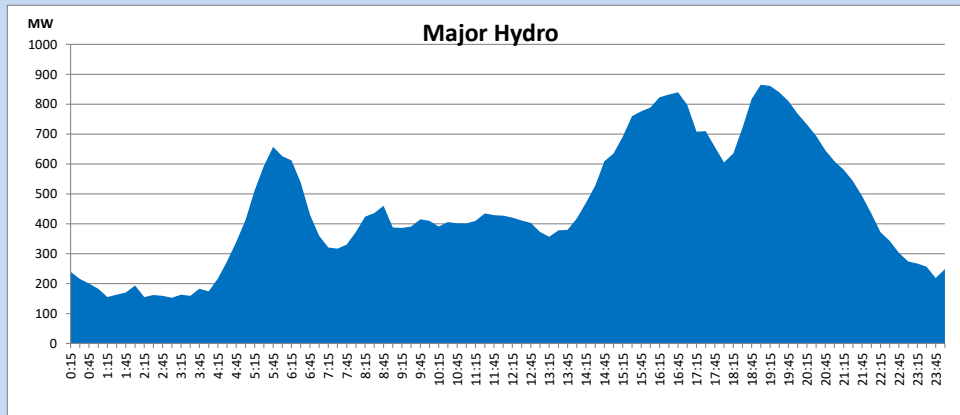
IPP Oil Plant Generation during

April 1, 2024



Major Hydro Generation during

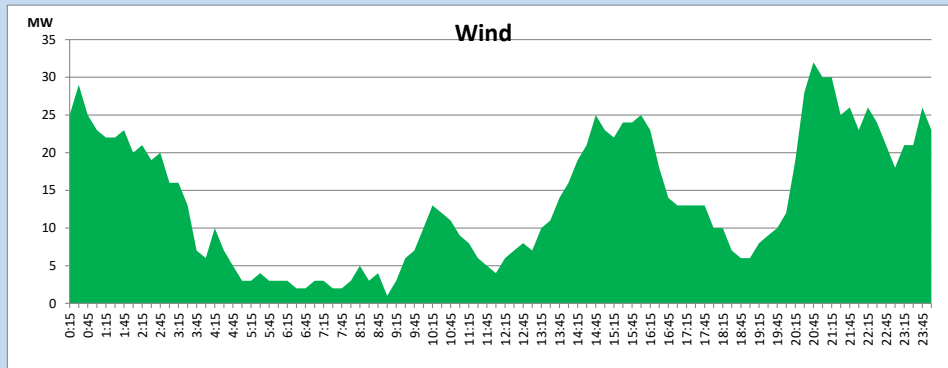
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Wind Generation during

April 1, 2024

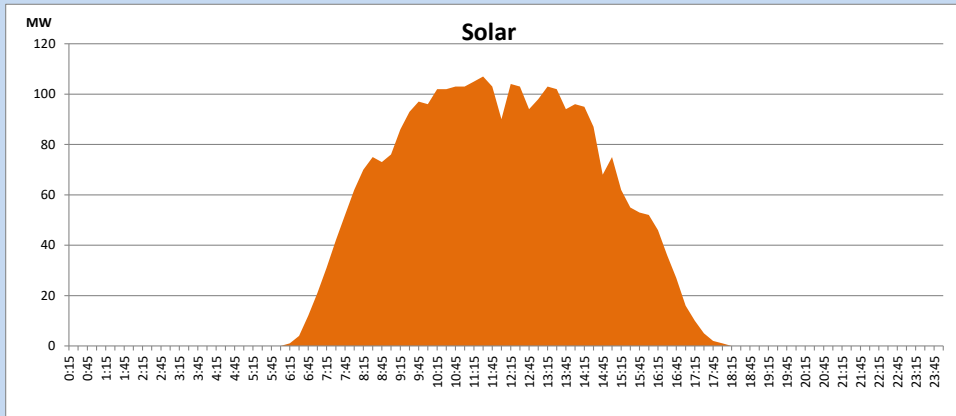
Based on Telemetered Power Stations only



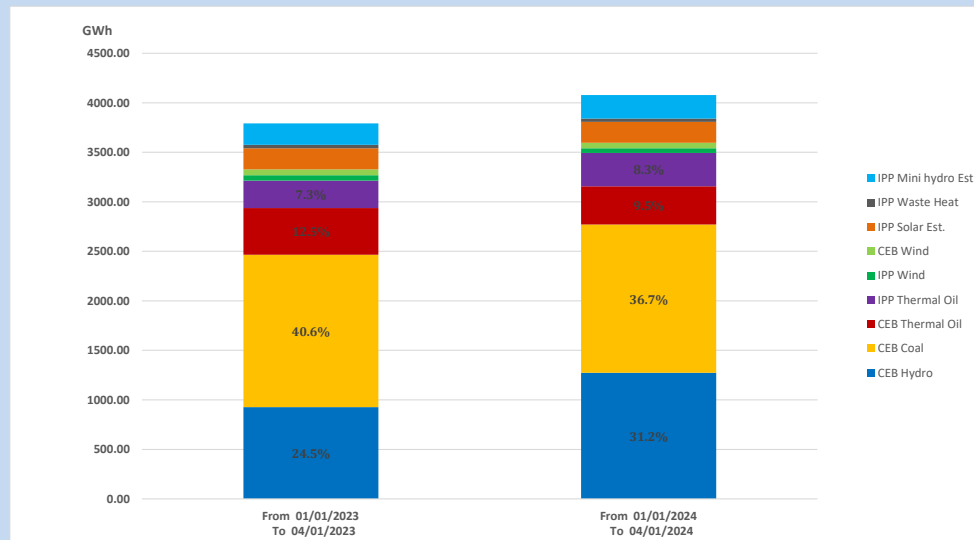
Solar Generation during

April 1, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



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

3792 GWh
 4079 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 1, 2024

- 1) Athurugiriya - Thulhiriya - Polpitiya PS 132kV cct tripped and A/R from all ends at 15:42hrs due to the operation of distance protection. At the same time, Athurugiriya - Thulhiriya - N'Polpitiya 132kV cct tripped and A/R from all ends due to the operation of distance protection. Again, Athurugiriya - Thulhiriya - Polpitiya PS 132kV cct tripped and A/R from all ends at 15:46hrs due to the operation of distance protection. At the same time, Athurugiriya - Thulhiriya - N'Polpitiya 132kV cct tripped and A/R from all ends due to the operation of distance protection.
- 2) Biyagama - Kothmale 220kV cct 1 and 2 tripped and A/R from both ends at 15:42hrs due to the operation of distance protection. At the same time, Kothmale - U/Kothmale cct 1 and 2 tripped and A/R only from Kothmale end due to the operation of distance protection.