Generation and Reservoirs Statistics

May 1, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

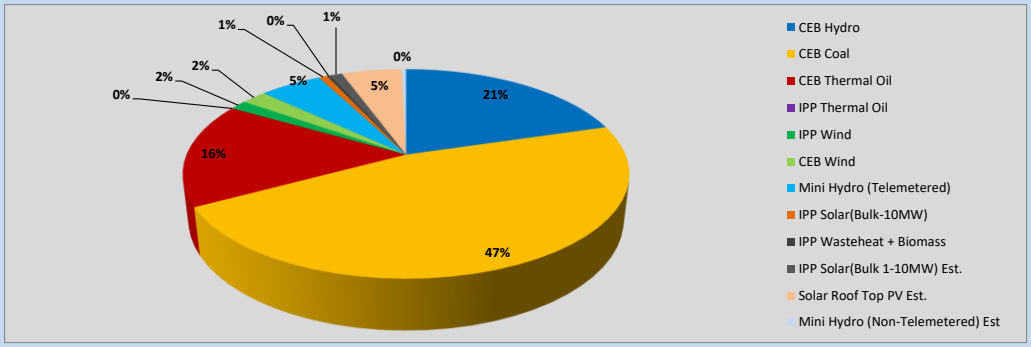


Table 01

	Generation (MWh)
CEB Hydro	8,159
CEB Coal	18,689
CEB Thermal Oil	6,475
IPP Thermal Oil	-
IPP Wind	586
CEB Wind	866
Mini Hydro (Telemetered)	2,157
IPP Solar (Bulk)	294
IPP Waste heat + Biomass	112
Total Generation (Excluding estimated figures)	**37,338**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	156
* Estimated IPP Solar PV (Bulk 1-10MW)	422
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	**39,996**

*** 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	8	20.39%
CEB Coal	19	46.71%
CEB Thermal Oil	6	16.20%
IPP Thermal	0	0.00%
SPP Wind	1	1.47%
CEB Wind	1	2.17%
Mini Hydro *	2	5.80%
IPP Solar *	3	6.97%
IPP Waste heat + BMP	0	0.27%
Total	**40**	

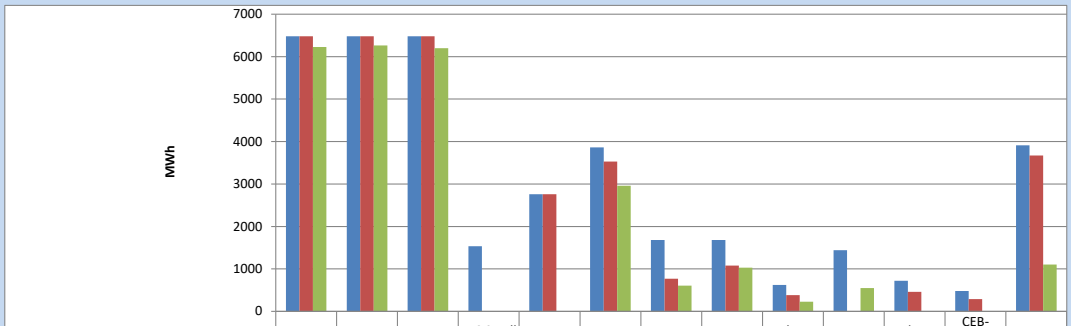
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,649	30.25%
CEB Coal	1,979	36.31%
CEB Thermal Oil	632	11.59%
IPP Thermal	408	7.48%
SPP Wind	58	1.07%
CEB Wind	64	1.18%
Mini Hydro *	313	5.74%
IPP Solar *	299	5.48%
IPP Waste heat	49	0.90%
Total	**5,451**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

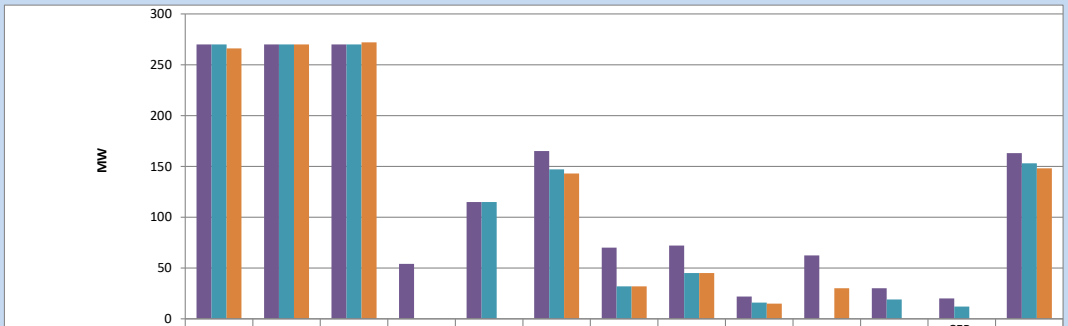
May 1, 2024



	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS-2
Rated Daily Generation Capacity (MWh)	6480	6480	6480	1536	2760	3864	1680	1680	624	1440	720	480	3912
Available Generation (MWh)	6480	6480	6480	0	2760	3528	768	1080	384	0	458	290	3672
Actual generation (MWh)	6227.00	6262.00	6200.00	0.00	0.00	2957.00	608.00	1029.00	227.00	551.00	0.00	0.00	1103.00

Available Generation is estimated based on plant availability at 6.00am on May 2, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

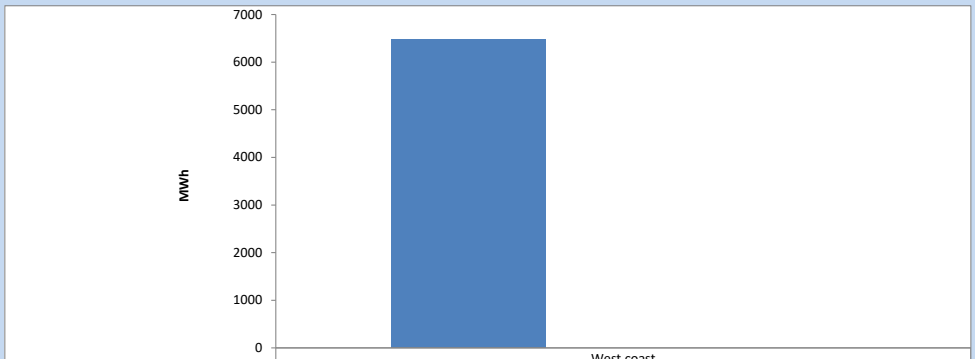


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	0	115	147	32	45	16	0	19	12	153
Night Peak Load (MW)	266	270	272	0	0	143	32	45	15	30	0	0	148

Plant availability is recorded at 6.00 am on May 2, 2024

5. IPP owned Thermal Plant Dispatch

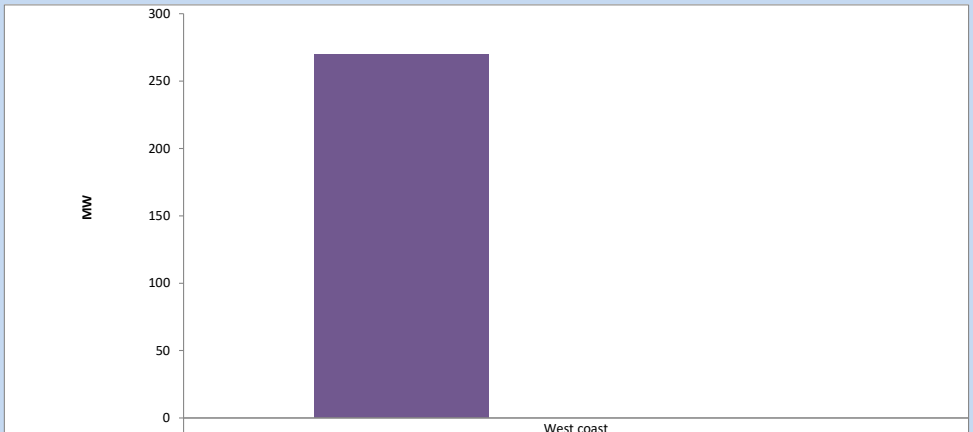
May 1, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	0
Actual generation (MWh)	0

Available Generation is estimated based on plant availability at 6.00am on May 2, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

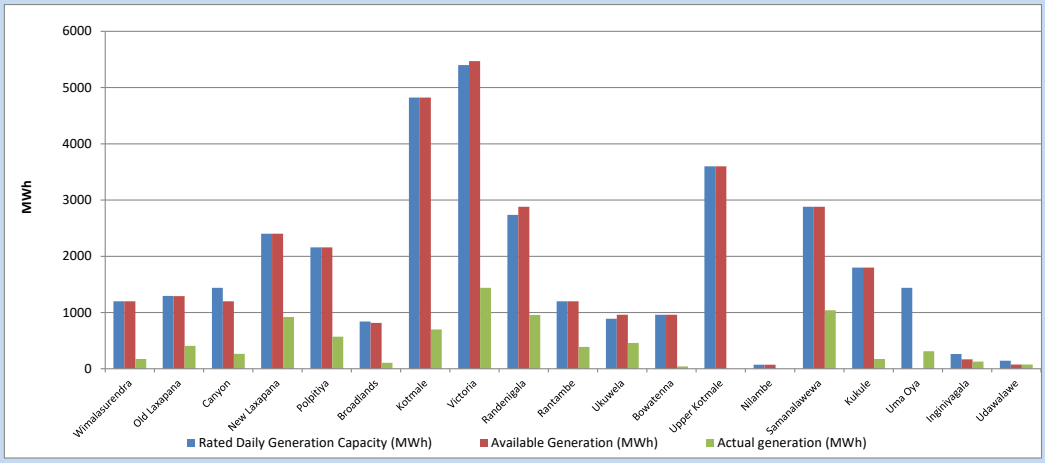


	West coast
Installed capacity (MW)	270
Available capacity (MW)	0
Night peak load (MW)	0

Plant availability is recorded at 6.00 am on May 2, 2024

7. Major Hydro Plant Dispatch

May 1, 2024

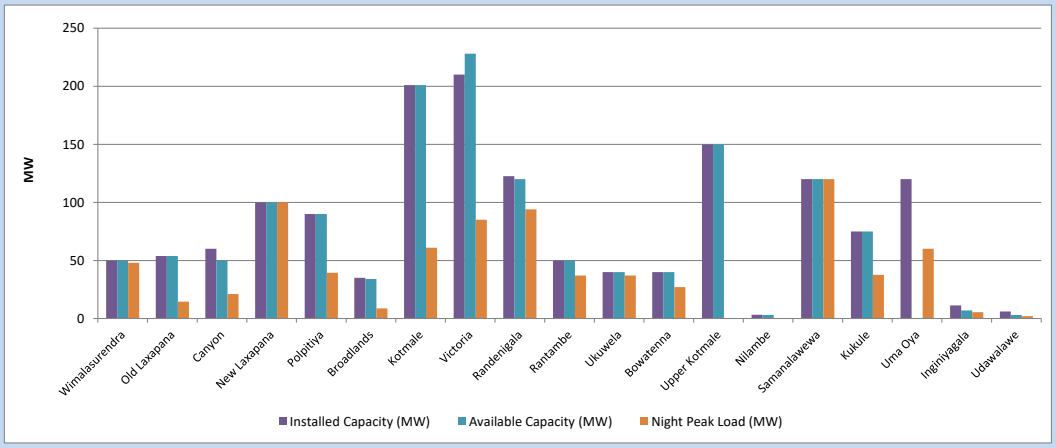


Available Generation is estimated based on plant availability at 6.00am on May 2, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

May 1, 2024



Plant availability is recorded at 6.00 am on May 2, 2024

Broadlands power plant is operating in the Commissioning Stage

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	173
Old Laxapana	54	54	15	407
Canyon	60	50	21	265
New Laxapana	100	100	100	921
Polpitiya	90	90	39	570
Broadlands	35	34	9	107
Kotmale	201	201	61	700
Victoria	210	228	85	1,440
Randenigala	123	120	94	957
Rantambe	50	50	37	389
Ukuwela	40	40	37	459
Bowatenna	40	40	27	42
Upper Kotmale	150	150	0	0
Nilambe	3	3	0	0
Samanalawewa	120	120	120	1,041
Kukule	75	75	38	175
Uma Oya (Testing)	120	0	60	313
Inginiyagala	11	7	5	126
Udawalawe	6	3	2	76
Puttalam Coal I	270	270	266	6,227
Puttalam Coal II	270	270	270	6,262
Puttalam Coal III	270	270	272	6,200
KPS Small GTs	54	0	0	0
KPS GT 7	115	115	0	0
KCCP	165	147	143	2,957
Sapugaskanda A	70	32	32	608
Sapugaskanda B	72	45	45	1,029
Uthura Janani	22	16	15	227
Barge CEB	62	0	30	551
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	153	148	1,103
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,764	2,221	37,340

Note-

Plant availability is the availability recorded at 6 am on May 2, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

May 1, 2024

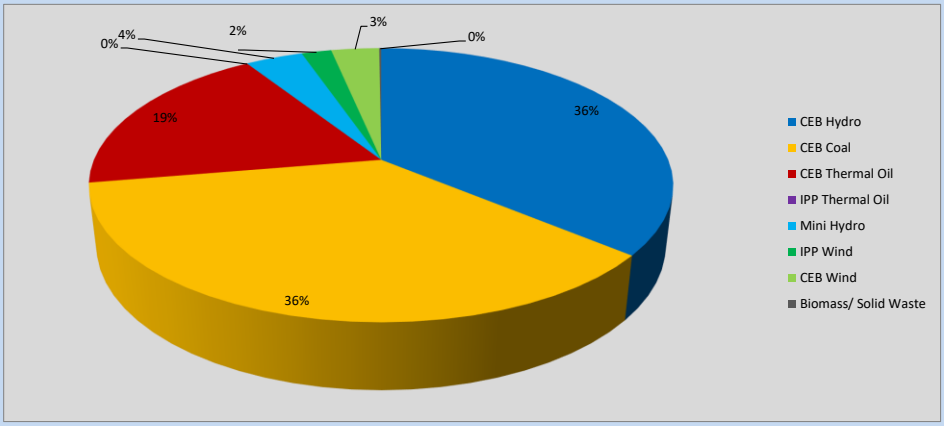


Table 06

CEB Hydro	801	MW
CEB Coal	808	MW
CEB Thermal Oil	413	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	85	MW
IPP Wind	44	MW
CEB Wind	70.6	MW
Biomass/ Solid Waste	3	MW

Recorded Peak Demand Data

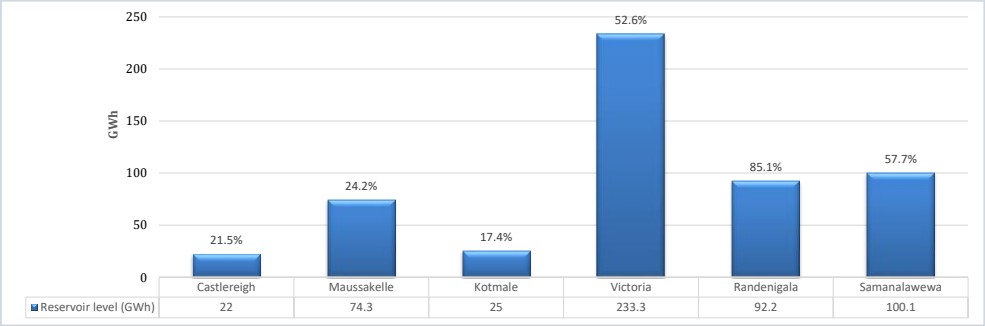
Table 07

Night Peak*	2,224	MW
Day Peak Maximum Demand	1,687	MW
Day Peak Minimum Demand	1,198	MW
Off Peak Minimum Demand	1,450	MW

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

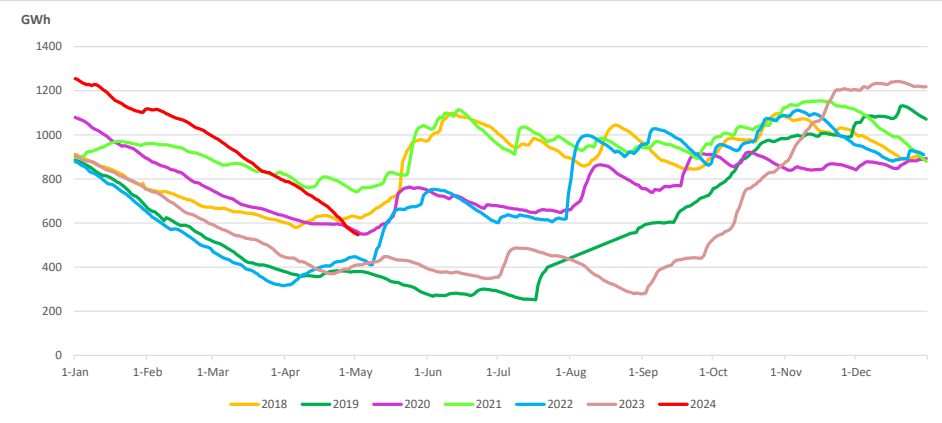
Reservoir Levels -

as at 06.00 Hr on May 2, 2024

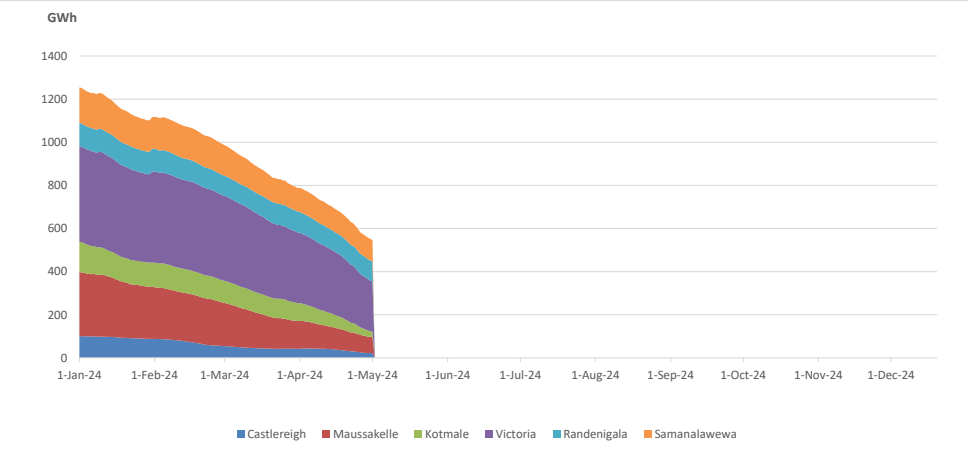


Total Reservoir Level 546.9 GWh
% of Total capacity 42.8%

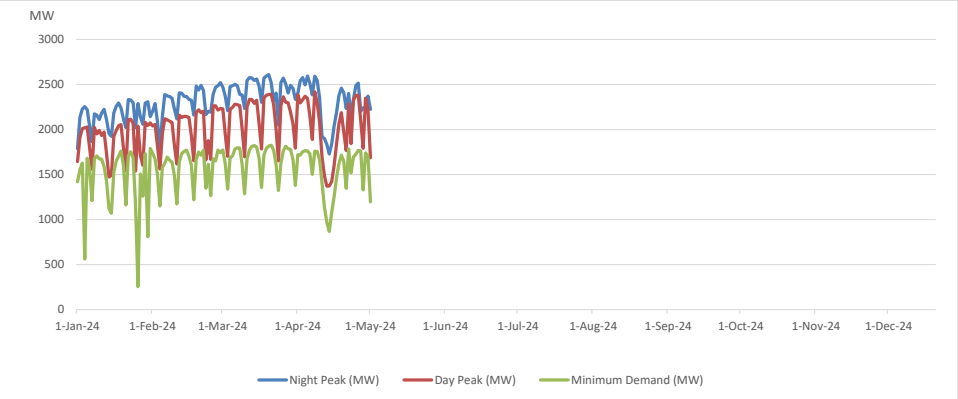
11. Comparison of Total Reservoir Storage Levels with Past Years



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



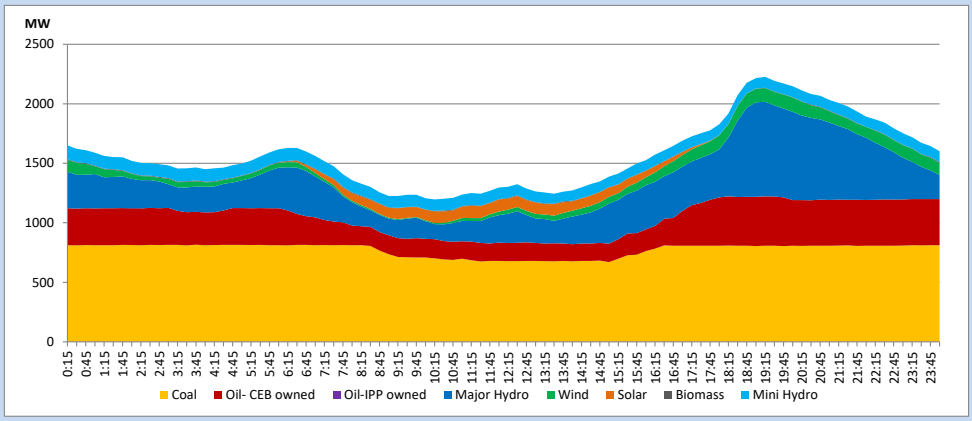
13. Variation of Demand during the current year



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

14. Daily Load Curve

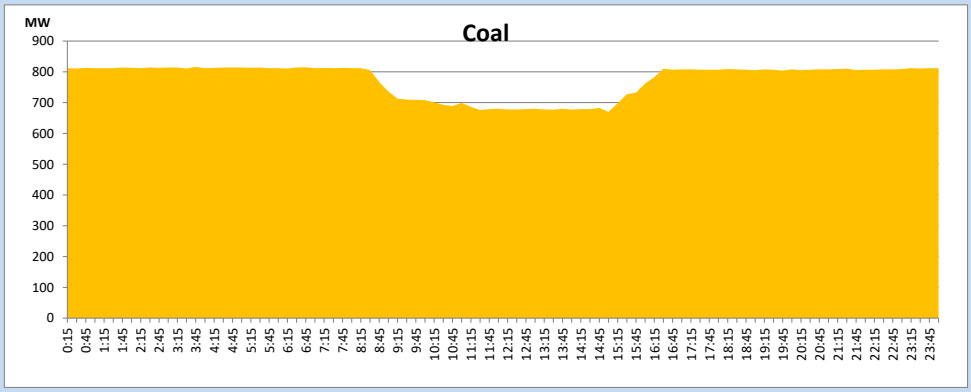
May 1, 2024



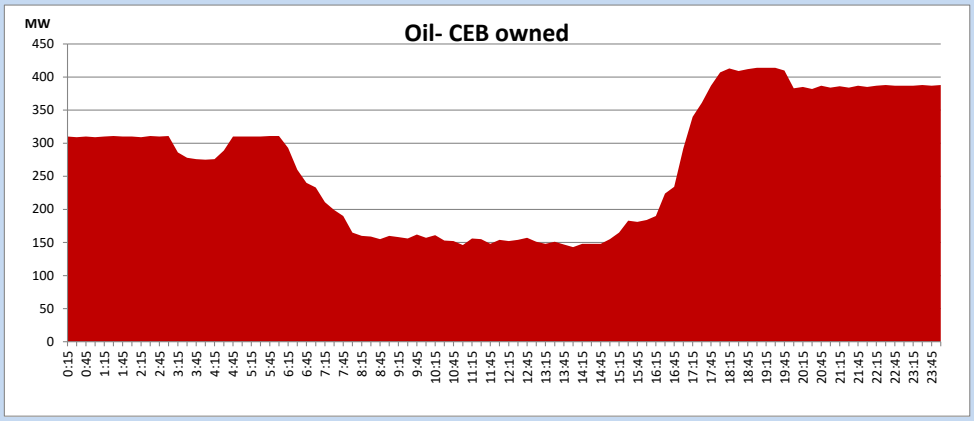
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during

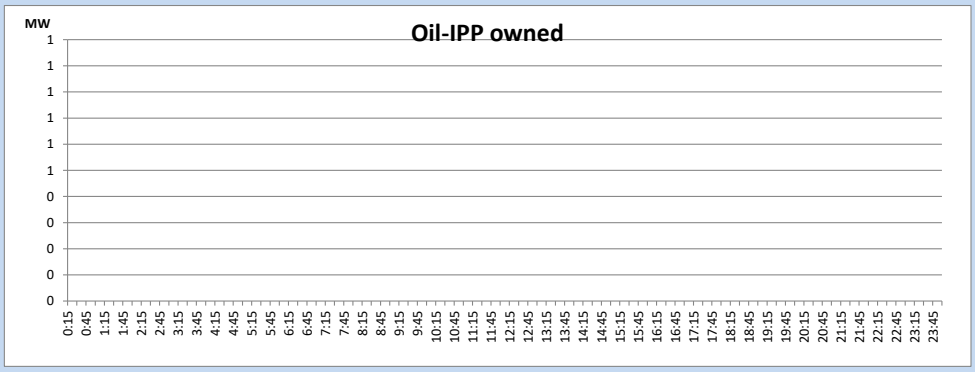
May 1, 2024



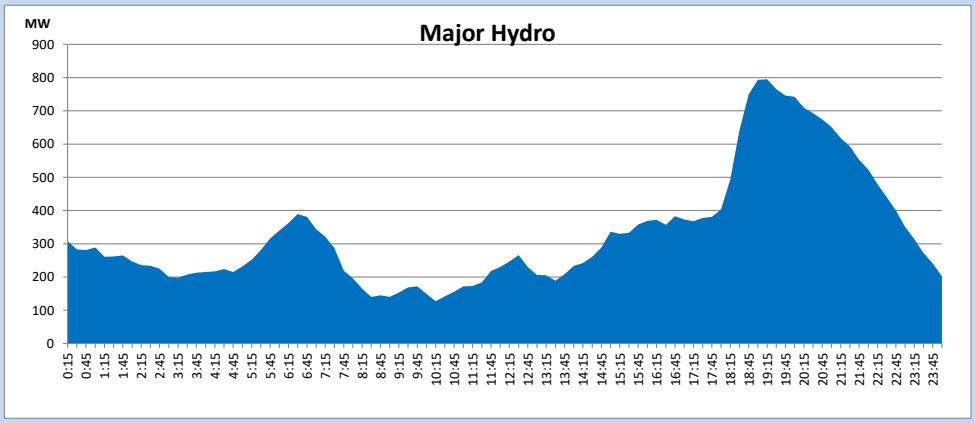
CEB Oil Plant Generation during **May 1, 2024**



IPP Oil Plant Generation during **May 1, 2024**

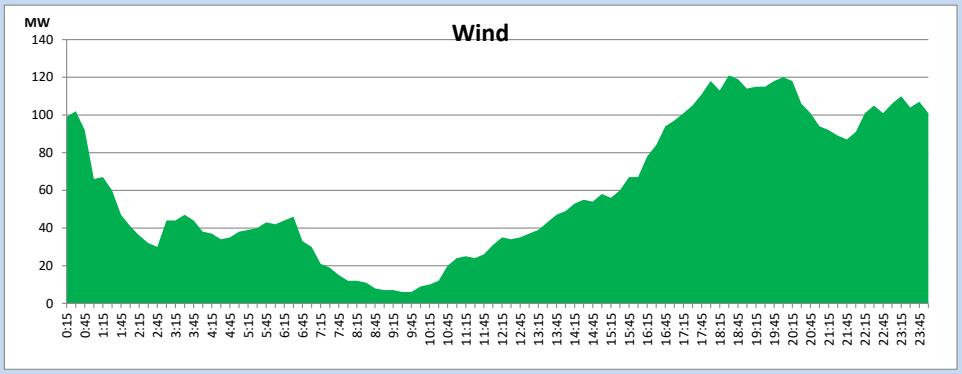


Major Hydro Generation during **May 1, 2024**



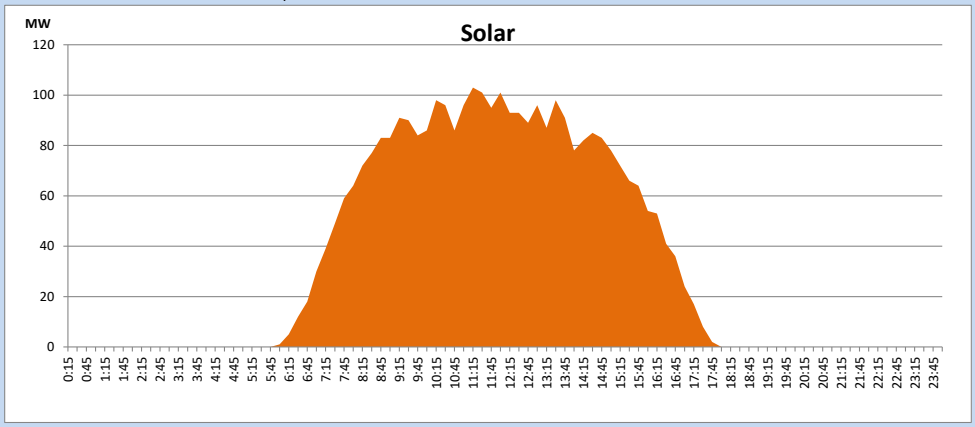
Wind Generation during May 1, 2024

Based on Telemetered Power Stations only

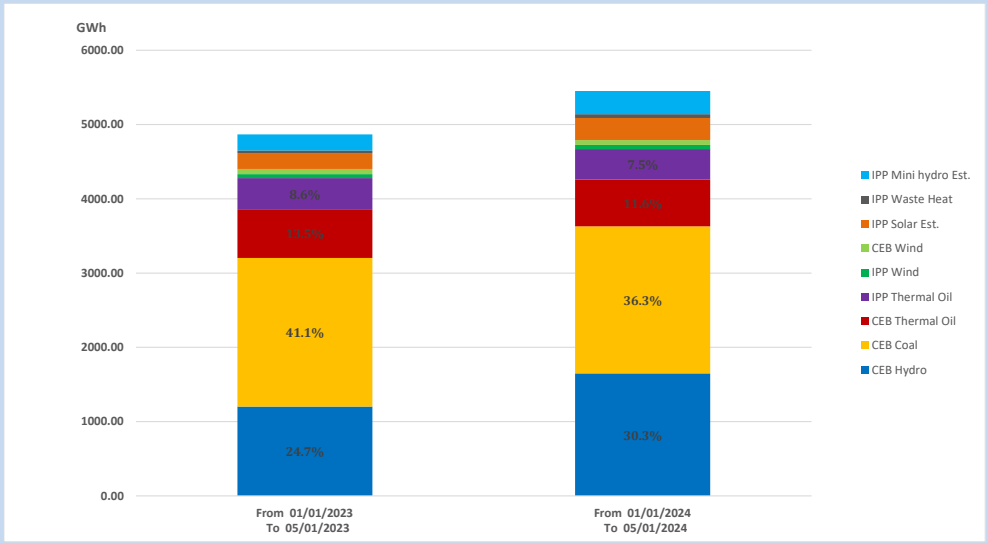


Solar Generation during May 1, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 05/01/2023 **4868 GWh**

From 01/01/2024 To 05/01/2024 **5451 GWh**

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

Unserved 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 May 1, 2024

1) New Anuradhapura - LVPS 220kV cct 01 tripped from both ends at 20:32hrs due to the operation of distance protection. The cct is yet to be normalized.