Generation and Reservoirs Statistics

April 11, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

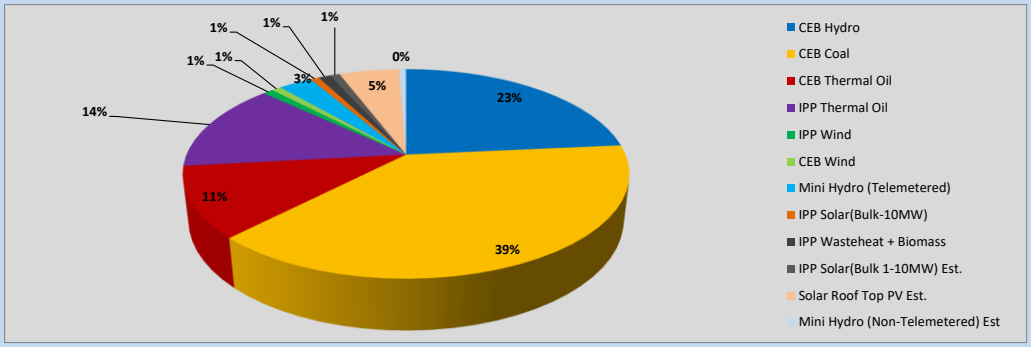


Table 01

	Generation (MWh)
CEB Hydro	9,419
CEB Coal	15,539
CEB Thermal Oil	4,388
IPP Thermal Oil	5,482
IPP Wind	360
CEB Wind	327
Mini Hydro (Telemetered)	1,162
IPP Solar (Bulk)	305
IPP Waste heat + Biomass	418
Total Generation (Excluding estimated figures)	**37,400**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	248
* Estimated IPP Solar PV (Bulk 1-10MW)	331
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	**40,059**

*** 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

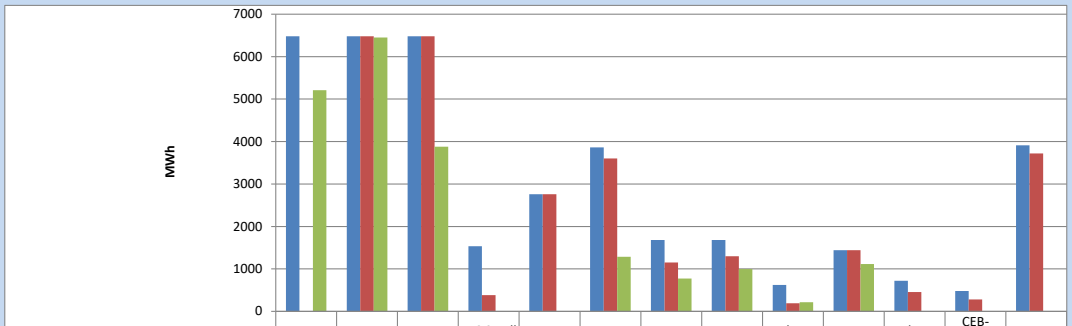
Category	Dispatch (GWh)	
CEB Hydro	123	23.18%
CEB Coal	210	39.59%
CEB Thermal Oil	73	13.84%
IPP Thermal	65	12.20%
SPP Wind	3	0.53%
CEB Wind	3	0.49%
Mini Hydro *	19	3.55%
IPP Solar *	31	5.92%
IPP Waste heat + BMP	4	0.71%
Total	**530**	

Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,386	30.40%
CEB Coal	1,687	36.99%
CEB Thermal Oil	453	9.93%
IPP Thermal	396	8.68%
SPP Wind	49	1.08%
CEB Wind	58	1.27%
Mini Hydro *	254	5.57%
IPP Solar *	241	5.28%
IPP Waste heat	37	0.81%
Total	**4,560**	

*Including estimated contribution from non telemetered plants

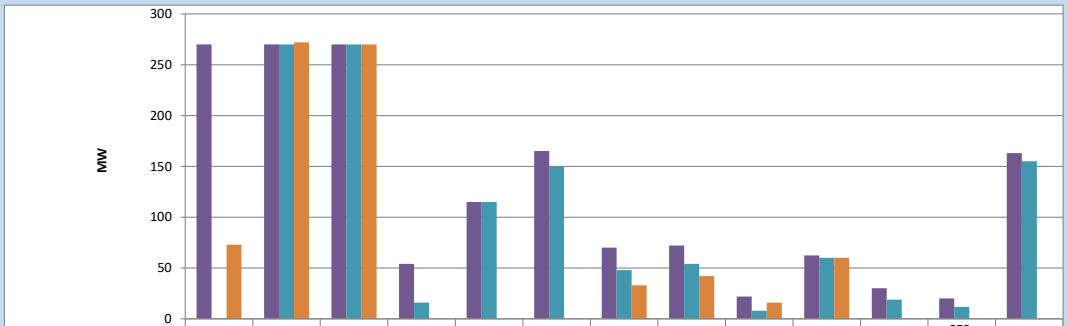
3. CEB owned Thermal Plant Dispatch April 11, 2024



	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)	0	6480	6480	384	2760	3600	1152	1296	192	1440	454	281	3720
Actual generation (MWh)	5210.00	6451.00	3878.00	0.00	0.00	1287.00	773.00	995.00	217.00	1116.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on April 12, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

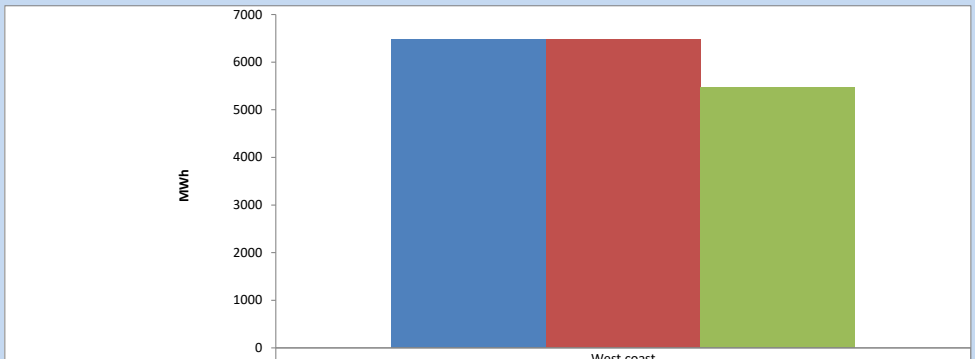


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	0	270	270	16	115	150	48	54	8	60	19	12	155
Night Peak Load (MW)	73	272	270	0	0	0	33	42	16	60	0	0	0

Plant availability is recorded at 6.00 am on April 12, 2024

5. IPP owned Thermal Plant Dispatch

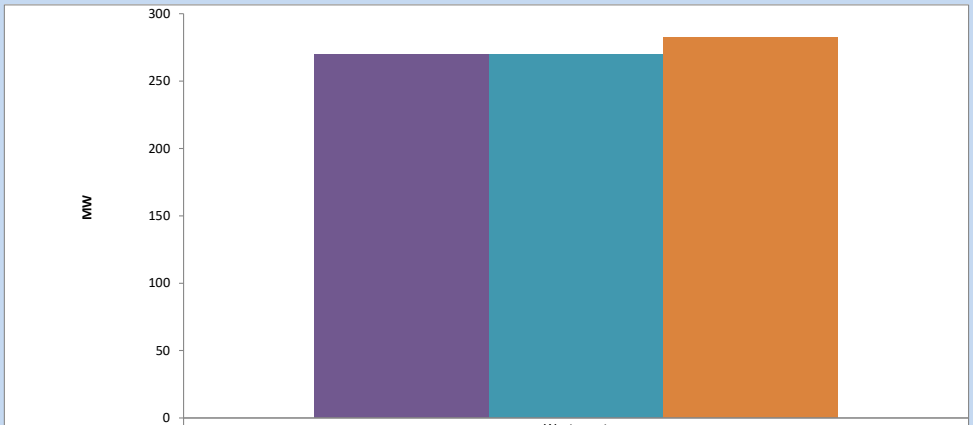
April 11, 2024



	West coast
Rated Daily Generation Capacity (MWh)	6480
Available Generation (MWh)	6480
Actual generation (MWh)	5482

Available Generation is estimated based on plant availability at 6.00am on April 12, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

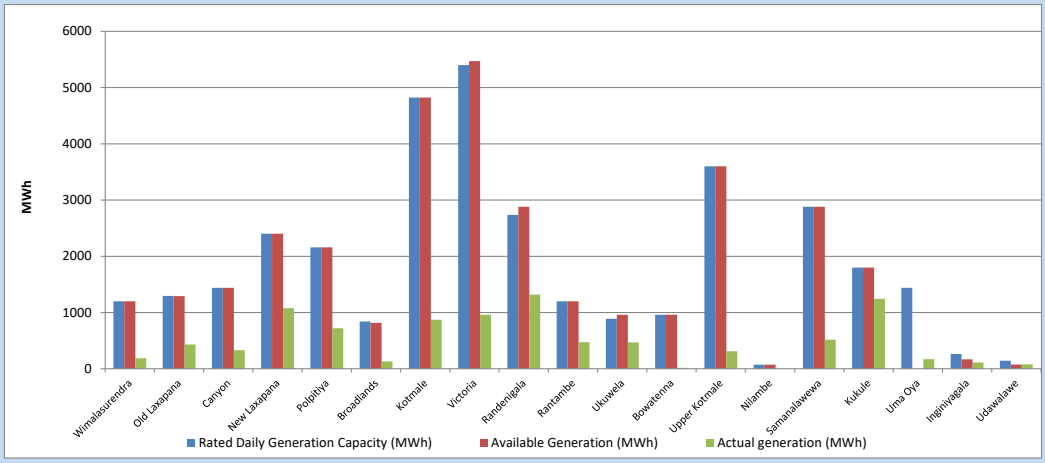


	West coast
Installed capacity (MW)	270
Available capacity (MW)	270
Night peak load (MW)	282

Plant availability is recorded at 6.00 am on April 12, 2024

7. Major Hydro Plant Dispatch

April 11, 2024

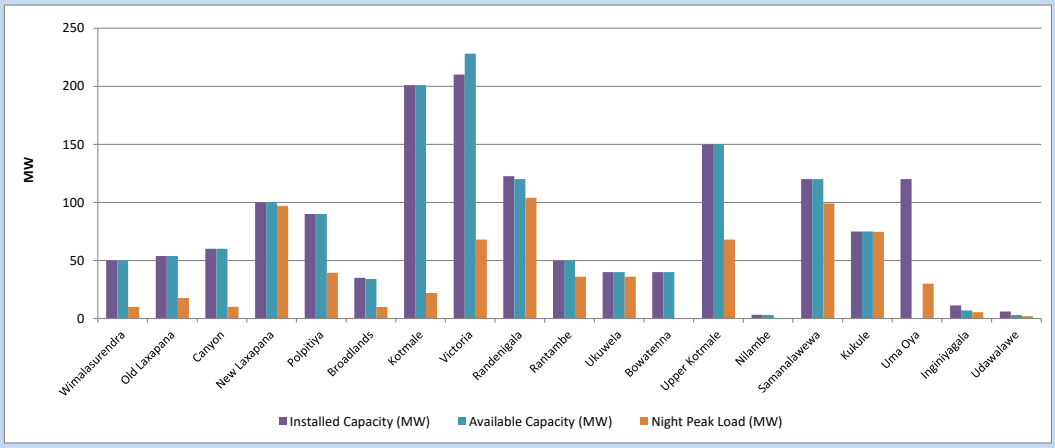


Available Generation is estimated based on plant availability at 6.00am on April 12, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

April 11, 2024



Plant availability is recorded at 6.00 am on April 12, 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	10	185
Old Laxapana	54	54	18	432
Canyon	60	60	10	331
New Laxapana	100	100	97	1,077
Polpitiya	90	90	39	720
Broadlands	35	34	10	131
Kotmale	201	201	22	870
Victoria	210	228	68	961
Randenigala	123	120	104	1,320
Rantambe	50	50	36	473
Ukuwela	40	40	36	469
Bowatenna	40	40	0	17
Upper Kotmale	150	150	68	313
Nilambe	3	3	0	0
Samanalawewa	120	120	99	517
Kukule	75	75	75	1,244
Uma Oya (Testing)	120	0	30	170
Inginiyagala	11	7	5	112
Udawalawe	6	3	2	78
Puttalam Coal I	270	0	73	5,210
Puttalam Coal II	270	270	272	6,451
Puttalam Coal III	270	270	270	3,878
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	1,287
Sapugaskanda A	70	48	33	773
Sapugaskanda B	72	54	42	995
Uthura Janani	22	8	16	217
Barge CEB	62	60	60	1,116
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	282	5,482
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,872	1,907	37,401

Note-

Plant availability is the availability recorded at 6 am on April 12, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 11, 2024

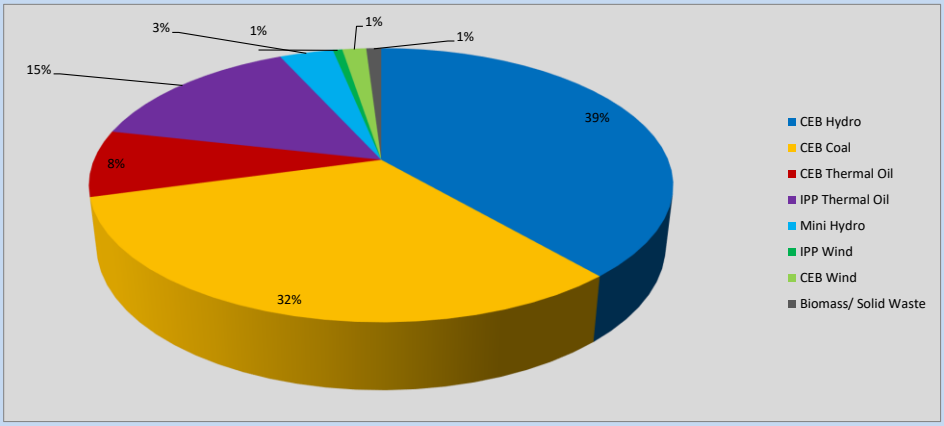


Table 06

CEB Hydro	742	MW
CEB Coal	615	MW
CEB Thermal Oil	151	MW
IPP Thermal Oil	282	MW
Mini Hydro (Telemetered)	68	MW
IPP Wind	12	MW
CEB Wind	30.4	MW
Biomass/ Solid Waste	19	MW

Recorded Peak Demand Data

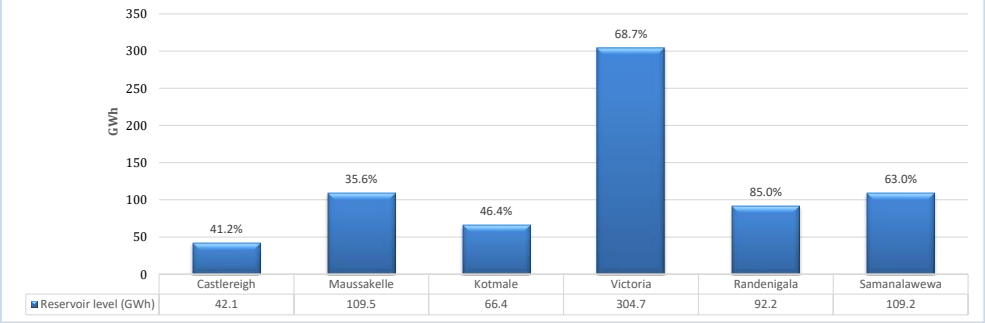
Table 07

Night Peak*	1,920	MW
Day Peak Maximum Demand	1,698	MW
Day Peak Minimum Demand	1,411	MW
Off Peak Minimum Demand	1,407	MW

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

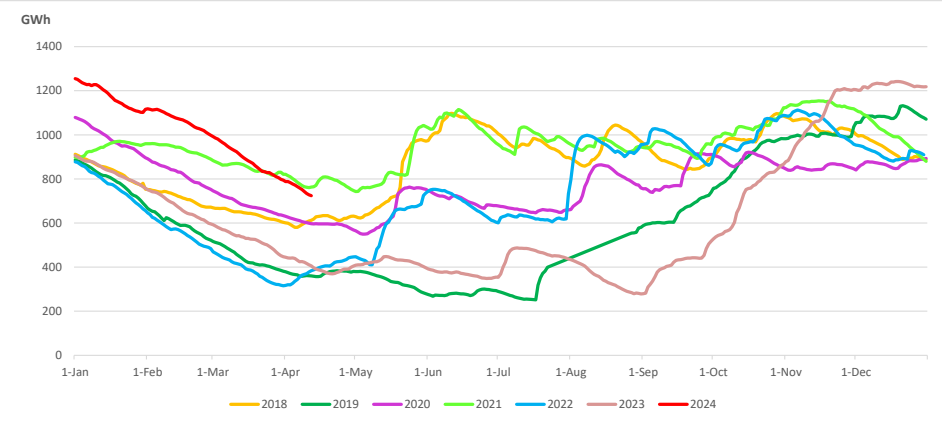
Reservoir Levels -

as at 06.00 Hr on April 12, 2024

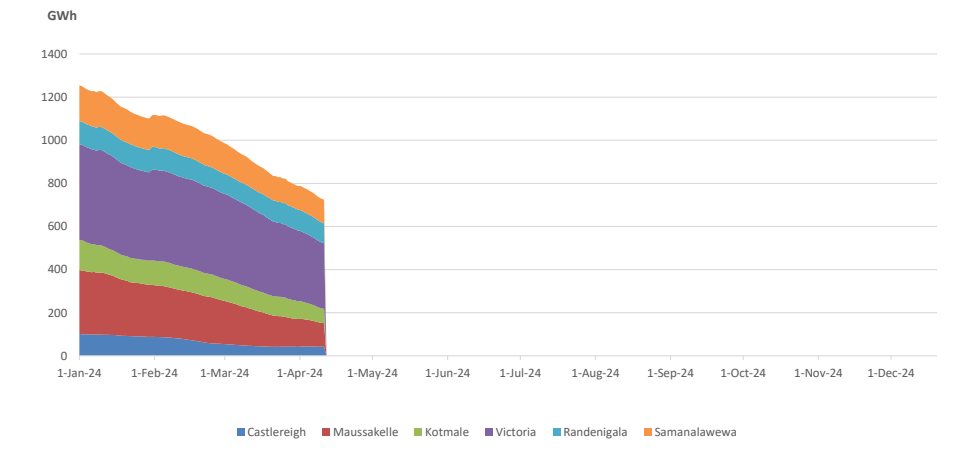


Total Reservoir Level 724.1 GWh
% of Total capacity 56.7%

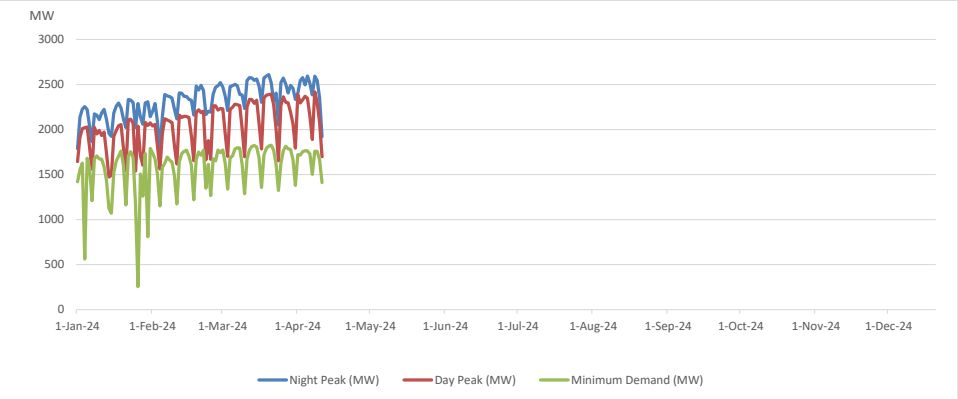
11. Comparison of Total Reservoir Storage Levels with Past Years



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

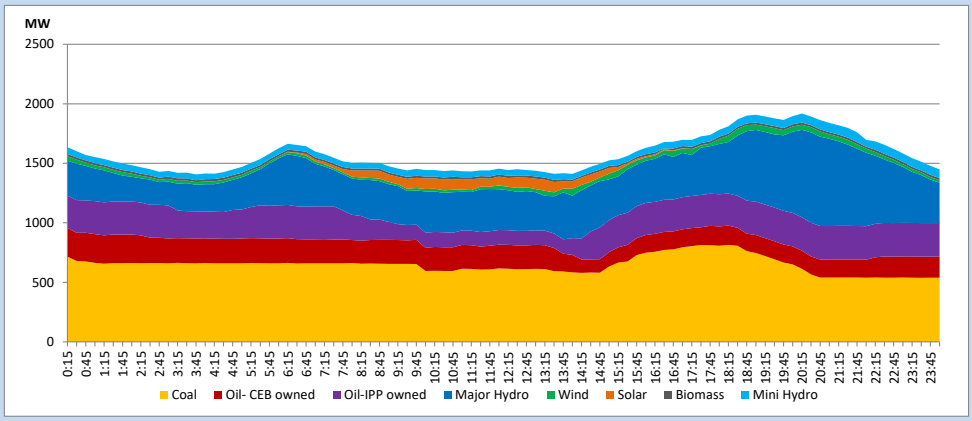


13. Variation of Demand during the current year



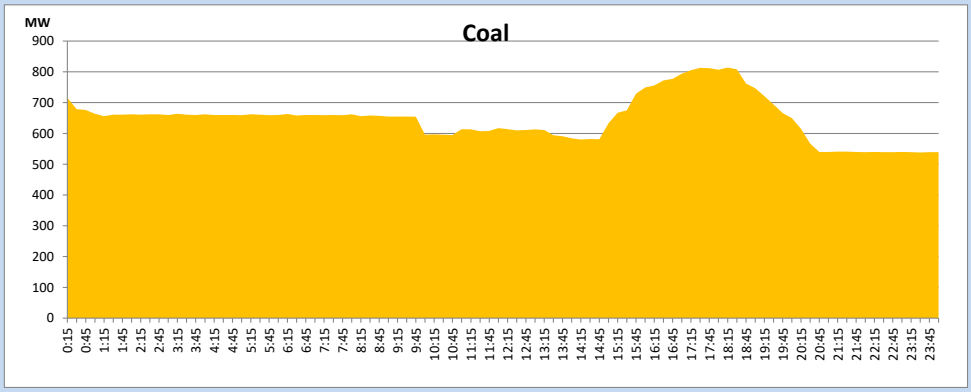
The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve April 11, 2024

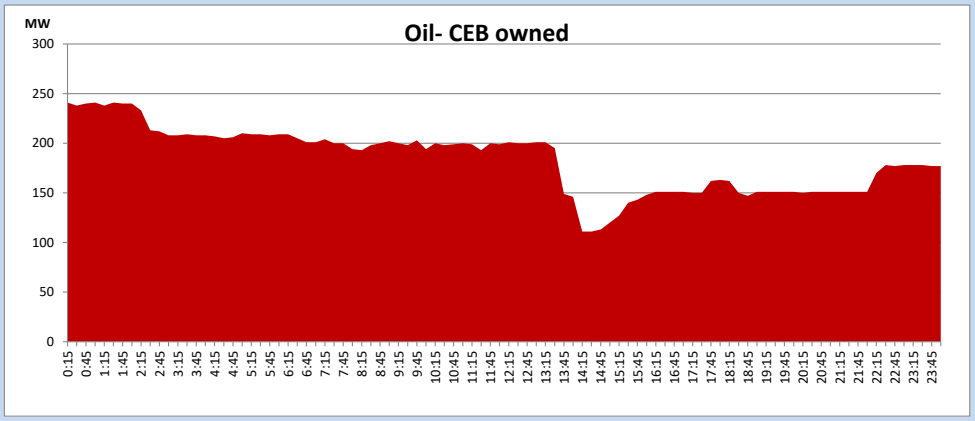


Solar and wind data is based on Telemetered Power Stations only

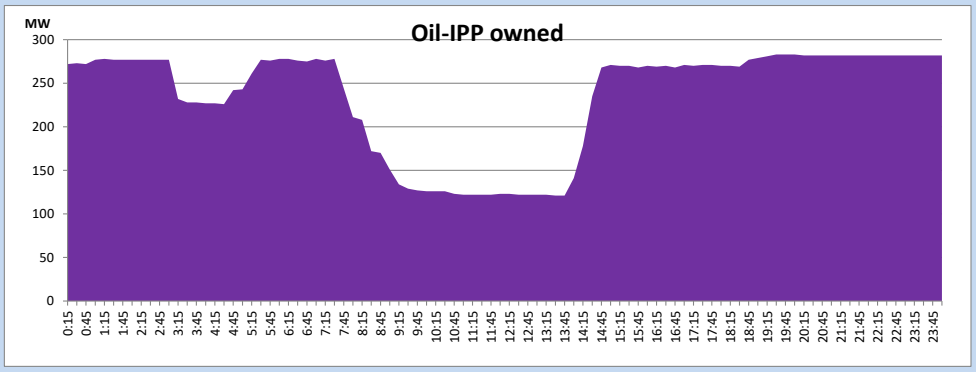
Coal Generation during April 11, 2024



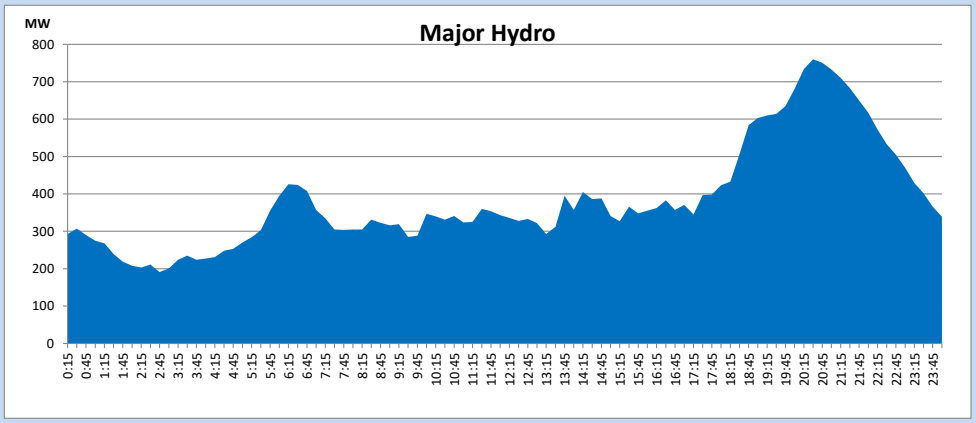
CEB Oil Plant Generation during **April 11, 2024**



IPP Oil Plant Generation during **April 11, 2024**

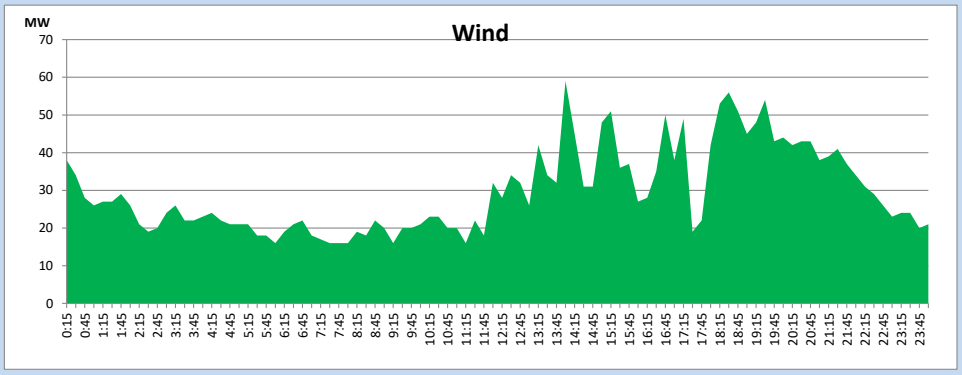


Major Hydro Generation during **April 11, 2024**



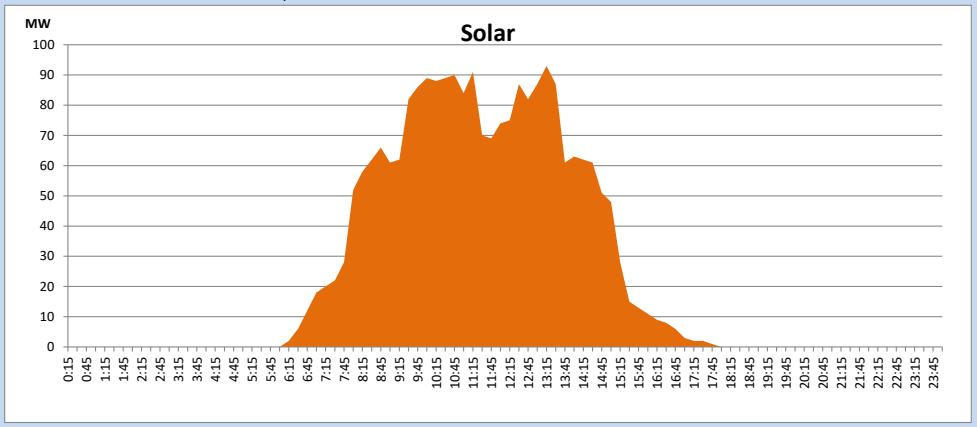
Wind Generation during April 11, 2024

Based on Telemetered Power Stations only

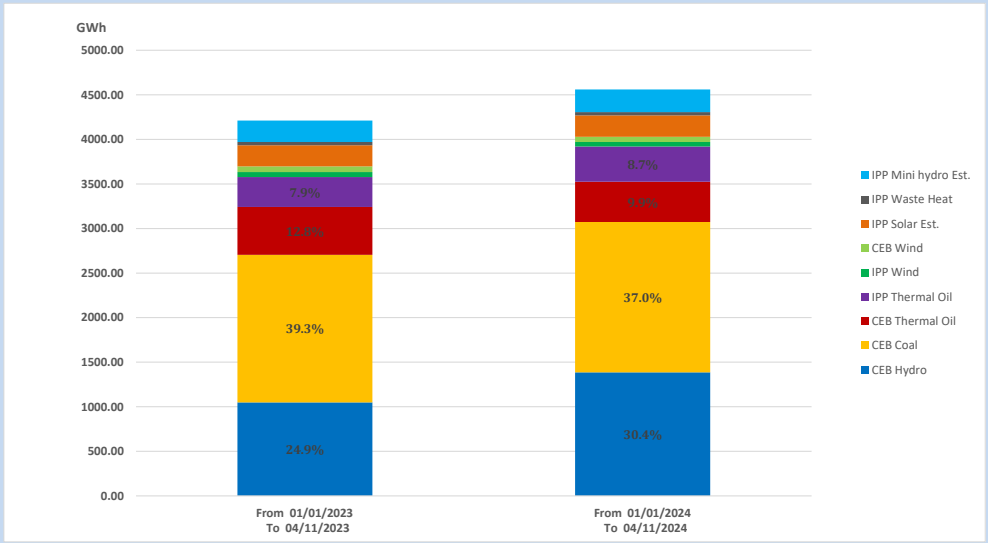


Solar Generation during April 11, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 04/11/2023 **4211 GWh**

From 01/01/2024 To 04/11/2024 **4560 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 April 11, 2024

1) Naula -Ukuwela 132kV cct tripped from both ends at 17:55hrs due to the operation of distance protection. The first attempt taken to normalize the cct failed. The cct is yet to be normalized.