Generation and Reservoirs Statistics

February 13, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

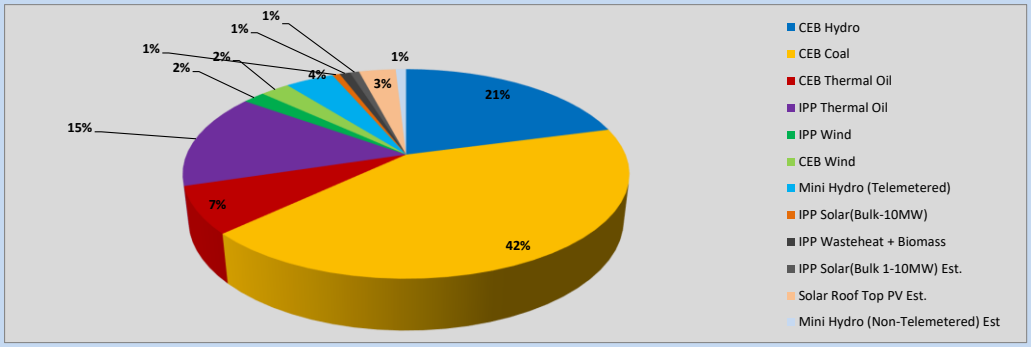


Table 01

	Generation (MWh)
CEB Hydro	9,628
CEB Coal	19,468
CEB Thermal Oil	3,343
IPP Thermal Oil	6,762
IPP Wind	888
CEB Wind	1,167
Mini Hydro (Telemetered)	1,942
IPP Solar (Bulk)	301
IPP Waste heat + Biomass	423
Total Generation (Excluding estimated figures)	**43,922**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	414
* Estimated IPP Solar PV (Bulk 1-10MW)	366
* Estimated Solar Roof Top PV	1470
Total Generation (Including estimated figures)	**46,172**

*** 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, ACE Matara and ACE Embilipitiya)	386.9
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 [Aug-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	147	26.47%
CEB Coal	248	44.60%
CEB Thermal Oil	42	7.64%
IPP Thermal	26	4.64%
SPP Wind	9	1.53%
CEB Wind	10	1.82%
Mini Hydro *	40	7.19%
IPP Solar *	28	5.09%
IPP Waste heat + BMP	6	1.02%
Total	**556**	

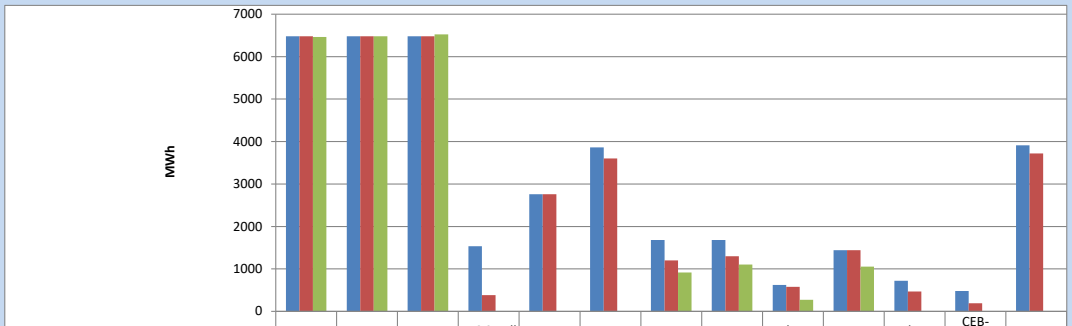
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	779	42.03%
CEB Coal	572	30.87%
CEB Thermal Oil	100	5.39%
IPP Thermal	71	3.86%
SPP Wind	25	1.35%
CEB Wind	32	1.73%
Mini Hydro *	159	8.59%
IPP Solar *	98	5.28%
IPP Waste heat	17	0.90%
Total	**1,852**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

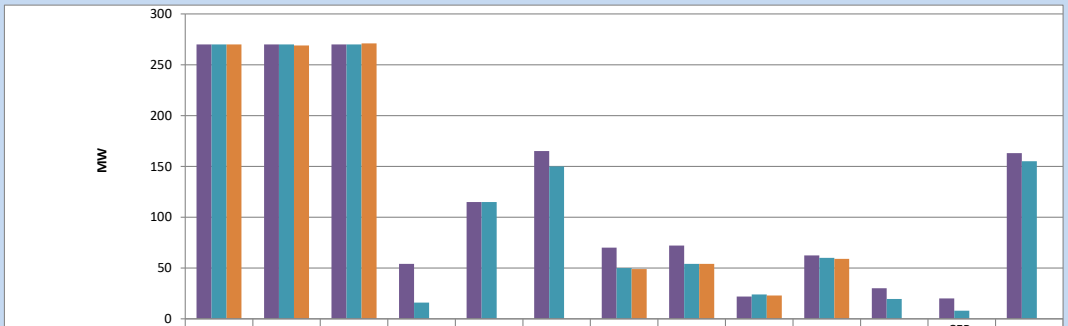
February 13, 2024



	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	384	2760	3600	1200	1296	576	1440	468	192	3720
Actual generation (MWh)	6465.00	6478.00	6525.00	0.00	0.00	0.00	916.00	1102.00	272.00	1053.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on February 14, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

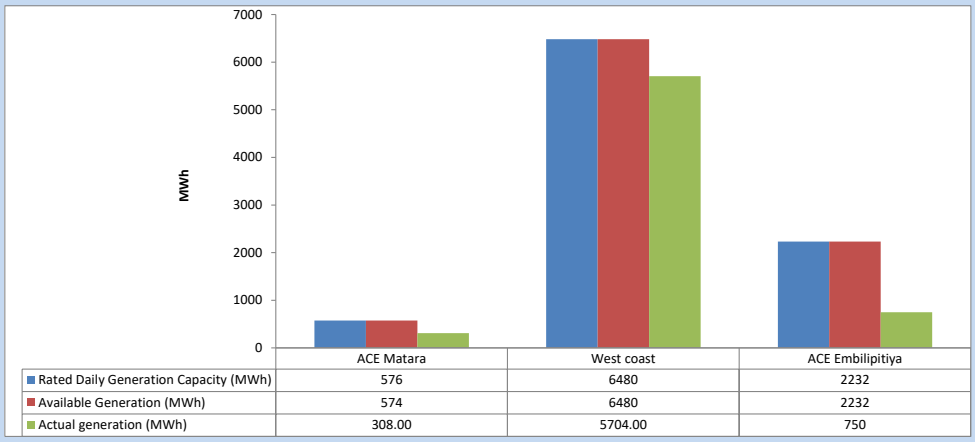


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	16	115	150	50	54	24	60	20	8	155
Night Peak Load (MW)	270	269	271	0	0	0	49	54	23	59	0	0	0

Plant availability is recorded at 6.00 am on February 14, 2024

5. IPP owned Thermal Plant Dispatch

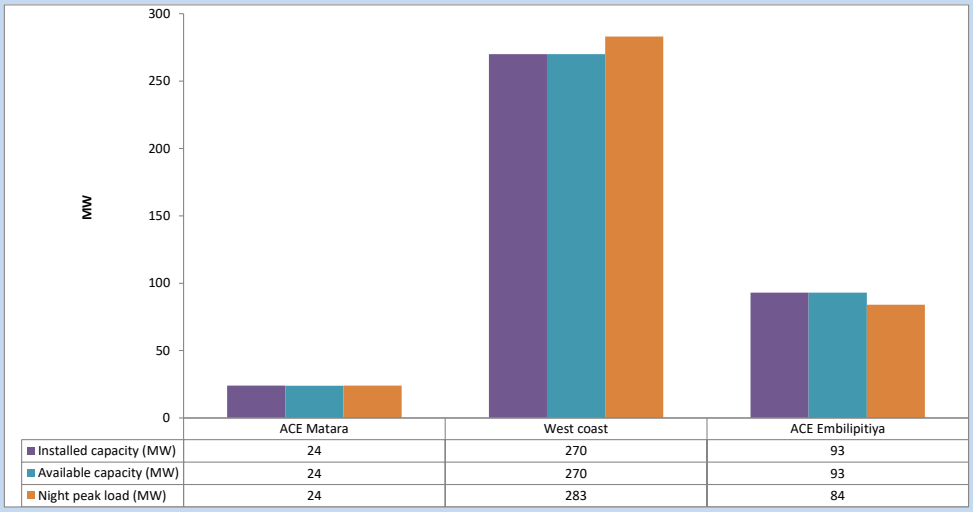
February 13, 2024



	ACE Matara	West coast	ACE Embilipitiya
Rated Daily Generation Capacity (MWh)	576	6480	2232
Available Generation (MWh)	574	6480	2232
Actual generation (MWh)	308.00	5704.00	750

Available Generation is estimated based on plant availability at 6.00am on February 14, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

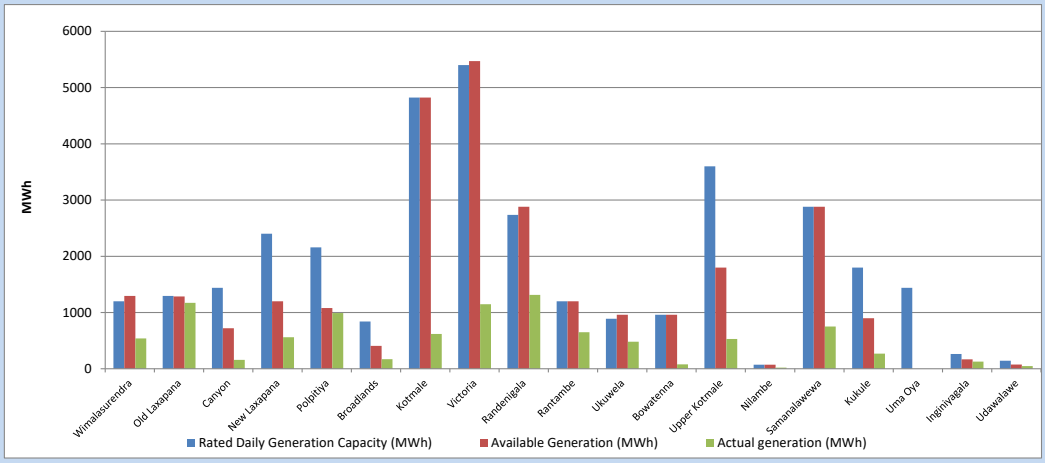


	ACE Matara	West coast	ACE Embilipitiya
Installed capacity (MW)	24	270	93
Available capacity (MW)	24	270	93
Night peak load (MW)	24	283	84

Plant availability is recorded at 6.00 am on February 14, 2024

7. Major Hydro Plant Dispatch

February 13, 2024

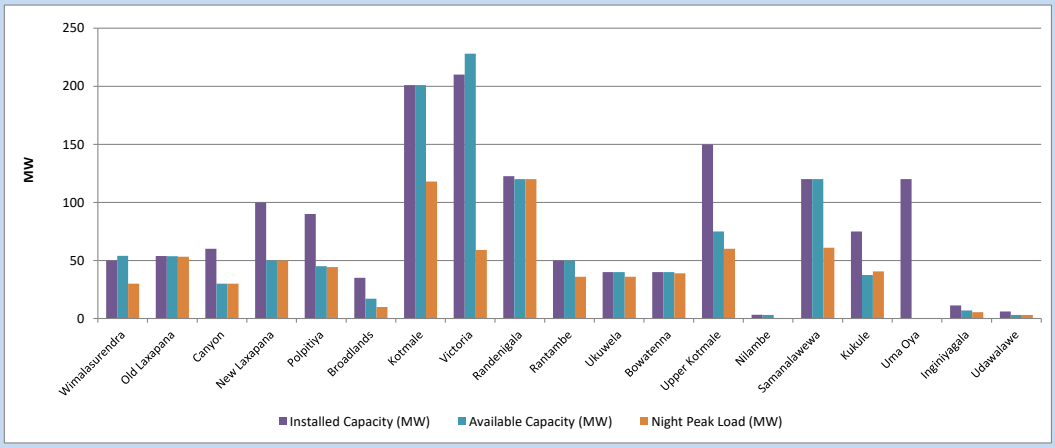


Available Generation is estimated based on plant availability at 6.00am on February 14, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

February 13, 2024



Plant availability is recorded at 6.00 am on February 14, 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	54	30	540
Old Laxapana	54	54	53	1,172
Canyon	60	30	30	159
New Laxapana	100	50	50	562
Polpitiya	90	45	44	990
Broadlands	35	17	10	171
Kotmale	201	201	118	620
Victoria	210	228	59	1,148
Randenigala	123	120	120	1,314
Rantambe	50	50	36	649
Ukuwela	40	40	36	481
Bowatenna	40	40	39	78
Upper Kotmale	150	75	60	529
Nilambe	3	3	0	19
Samanalawewa	120	120	61	752
Kukule	75	38	41	268
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	127
Udawalawe	6	3	3	49
Puttalam Coal I	270	270	270	6,465
Puttalam Coal II	270	270	269	6,478
Puttalam Coal III	270	270	271	6,525
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	50	49	916
Sapugaskanda B	72	54	54	1,102
Uthura Janani	22	24	23	272
Barge CEB	62	60	59	1,053
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	8	0	0
ACE Matara	24	24	24	308
Asia Power	50	0	0	0
KCCPS -2	163	155	0	0
West Coast	270	270	283	5,704
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	84	750
Total	3,594	3,023	2,391	43,922

Note-

Plant availability is the availability recorded at 6 am on February 14, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

February 13, 2024

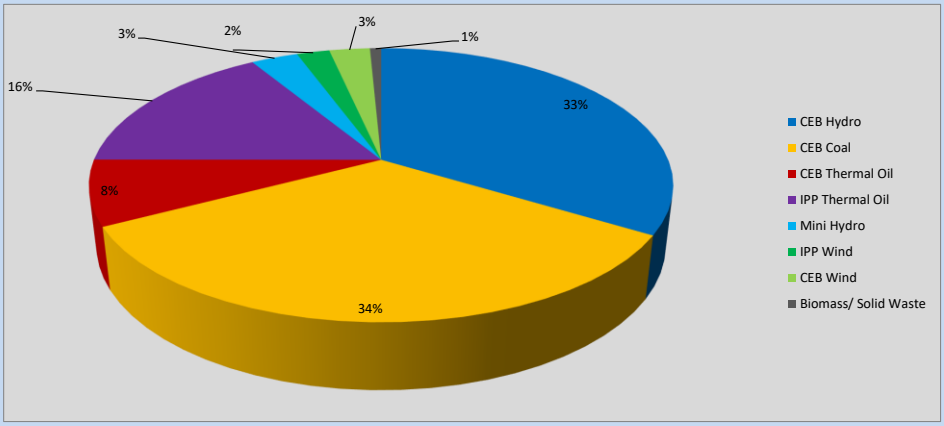


Table 06

CEB Hydro	809	MW
CEB Coal	810	MW
CEB Thermal Oil	185	MW
IPP Thermal Oil	391	MW
Mini Hydro (Telemetered)	75	MW
IPP Wind	52.2	MW
CEB Wind	64.6	MW
Biomass/ Solid Waste	18	MW

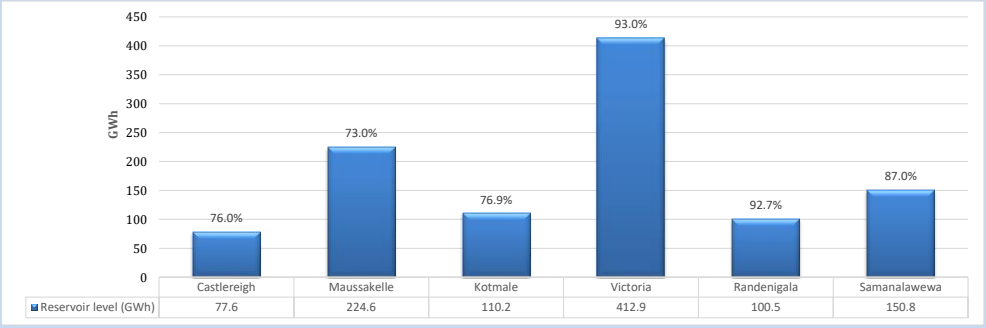
Recorded Peak Demand Data

Table 07

Night Peak*	2,404	MW
Day Peak Maximum Demand	2,133	MW
Day Peak Minimum Demand	1,733	MW
Off Peak Minimum Demand	1,387	MW

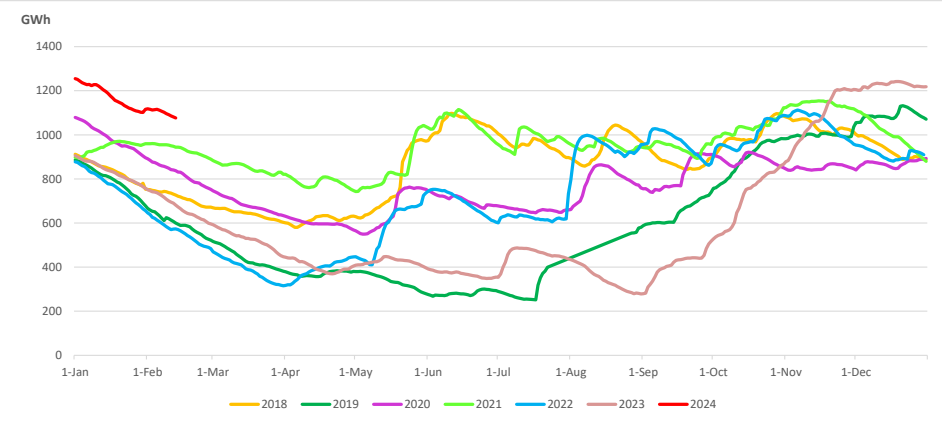
Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

Reservoir Levels - as at 06.00 Hr on February 14, 2024

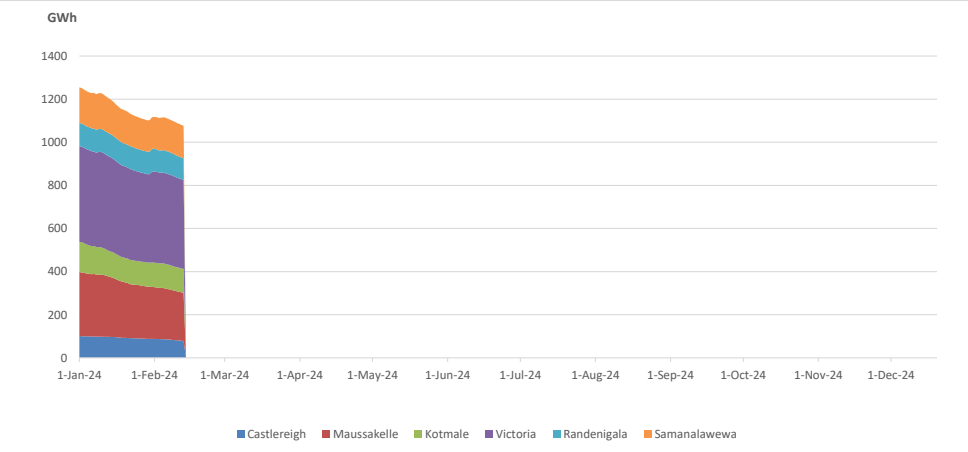


Total Reservoir Level 1076.6 GWh
% of Total capacity 84.2%

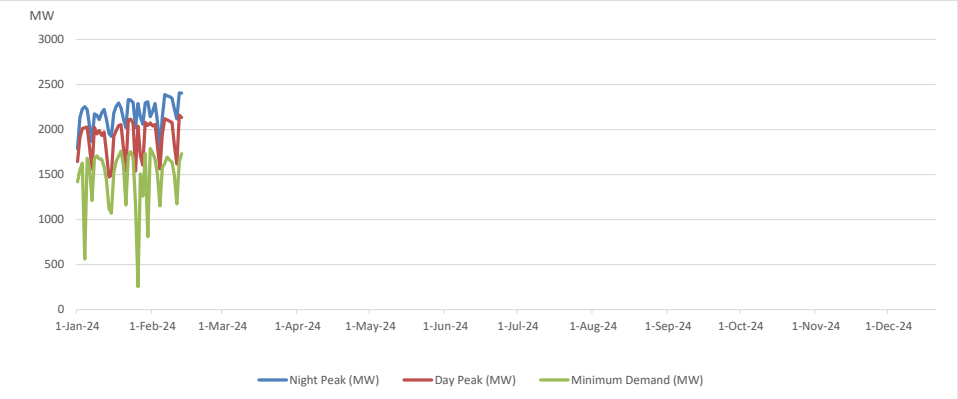
11. Comparison of Total Reservoir Storage Levels with Past Years



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



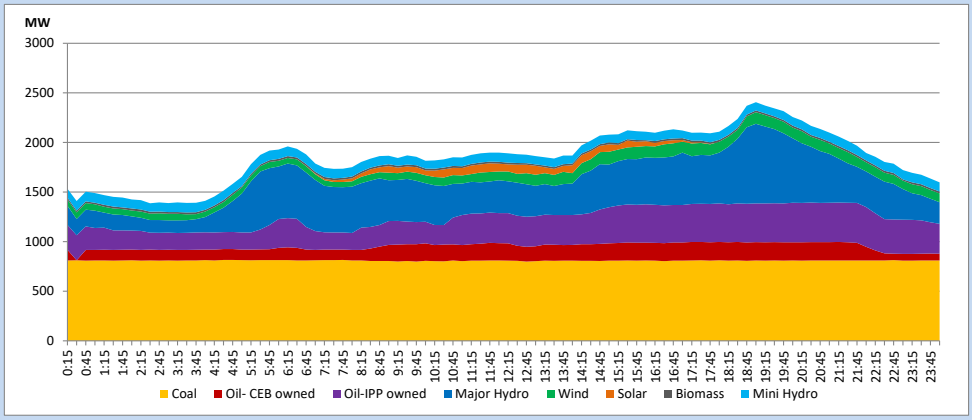
13. Variation of Demand during the current year



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

14. Daily Load Curve

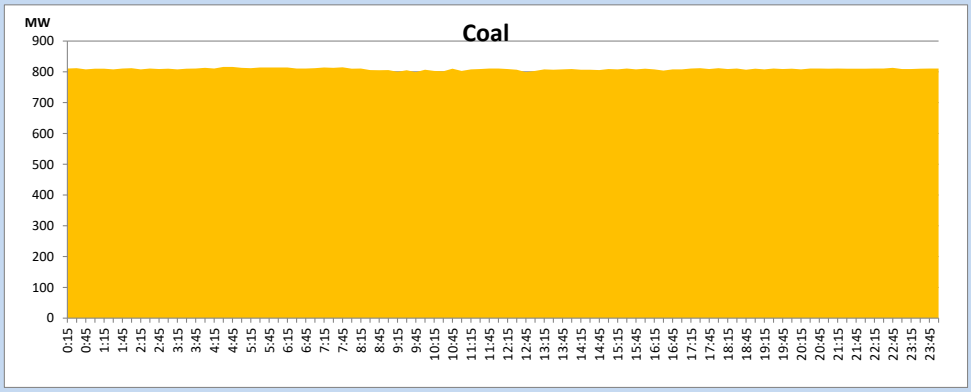
February 13, 2024



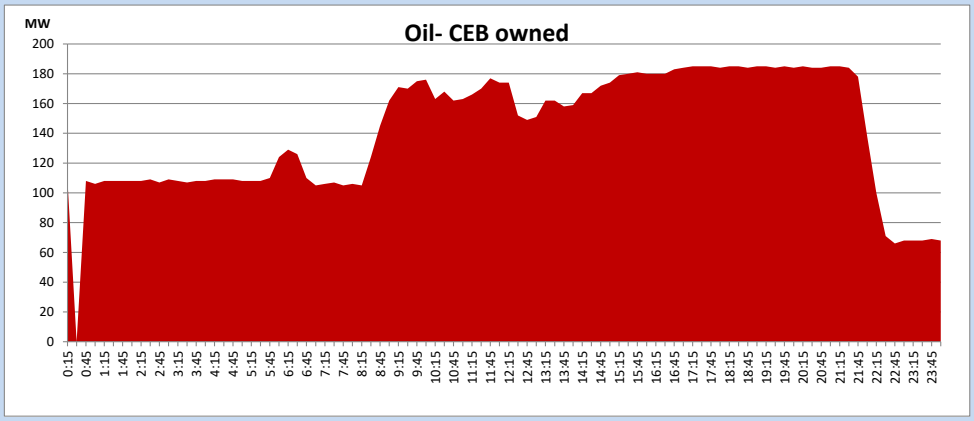
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during

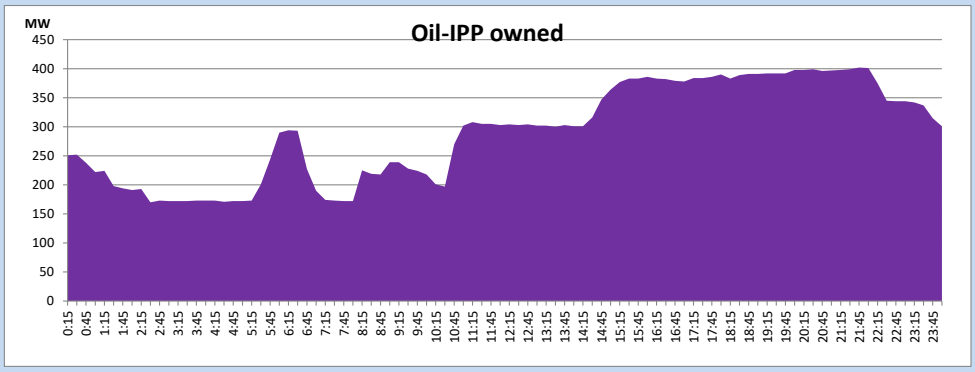
February 13, 2024



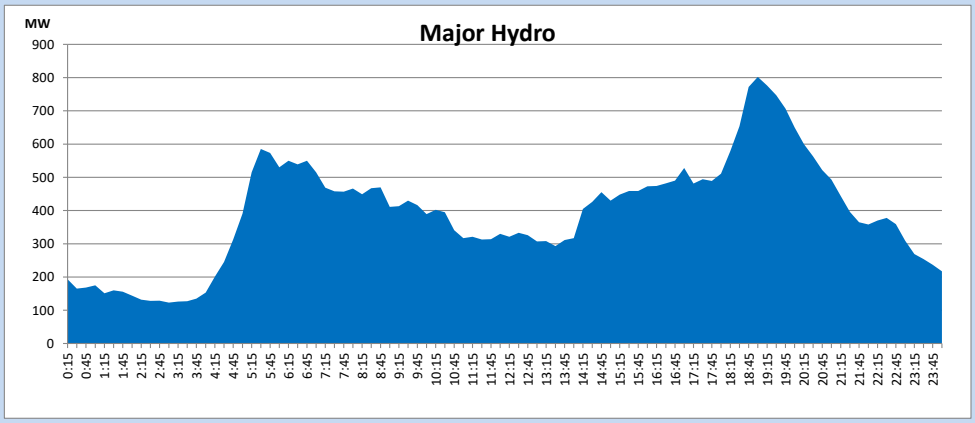
CEB Oil Plant Generation during **February 13, 2024**



IPP Oil Plant Generation during **February 13, 2024**

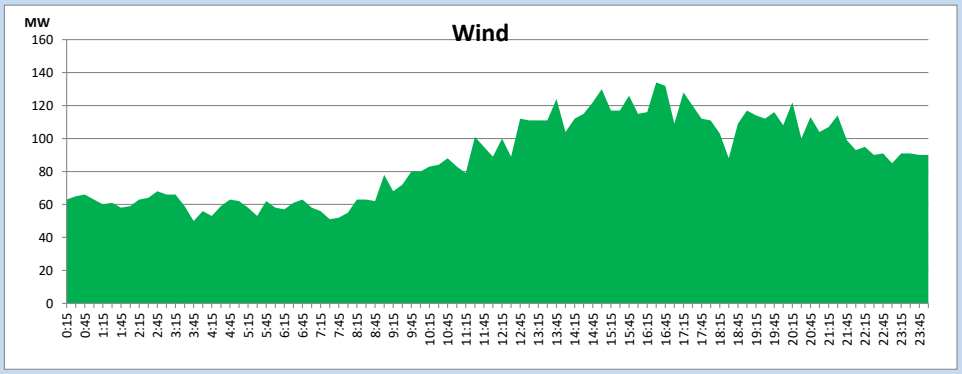


Major Hydro Generation during **February 13, 2024**



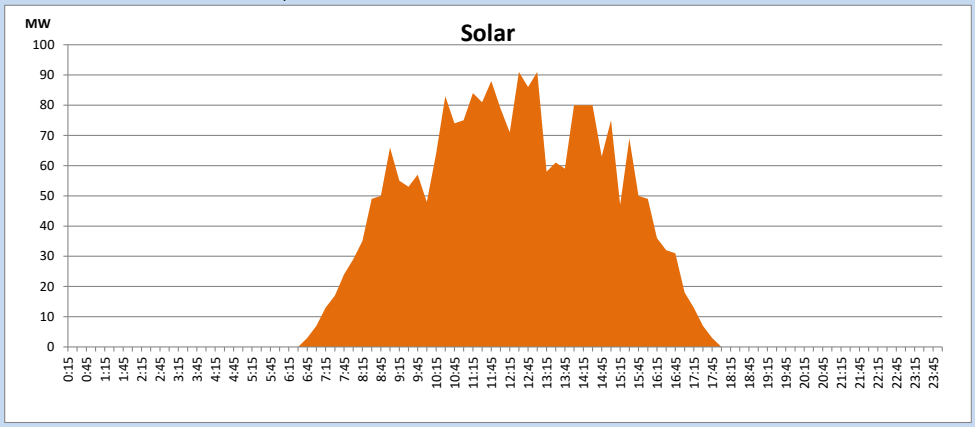
Wind Generation during February 13, 2024

Based on Telemetered Power Stations only

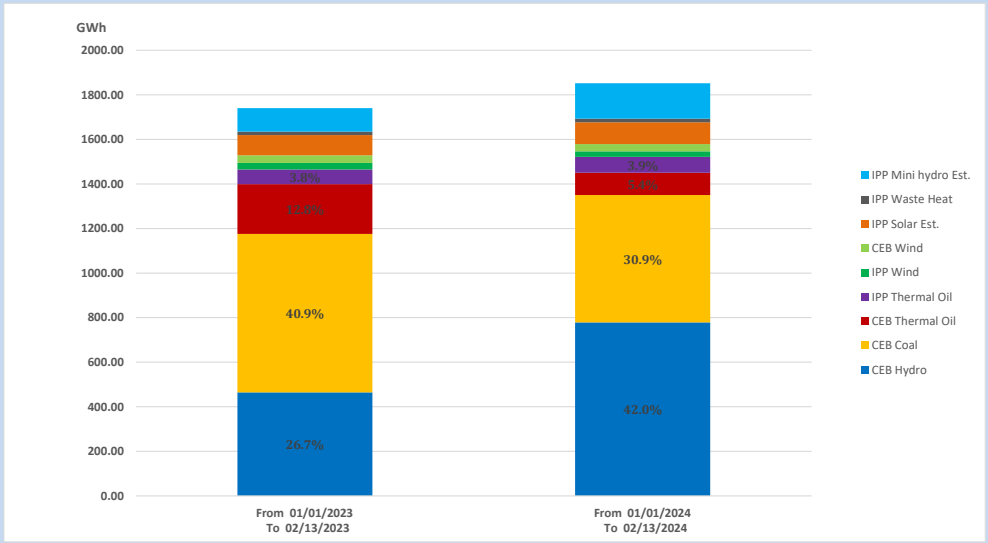


Solar Generation during February 13, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 02/13/2023 **1741 GWh**

From 01/01/2024 To 02/13/2024 **1852 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
ACE Matara	Heavy Fuel
ACE Embilipitiya	Heavy Fuel

Major Incidents reported during the day February 13, 2024

1) New Anuradhapura -Trinco 132kV cct, Trinco 132kV B/S CB, and Trinco 132/33kV T/F 01 tripped along with 33kV feeder 01, 06, and 08 at 15:34hrs from all ends. Kappalthurai - Trinco 132kV cct tripped at 15:36hrs from both ends, causing Trinco GSS to be dead. New Anuradhapura - Trinco 132kV cct restored at 16:49hrs. Trinco 132kV B/S CB normalized at 16:53hrs.