Generation and Reservoirs Statistics

February 27, 2024

PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

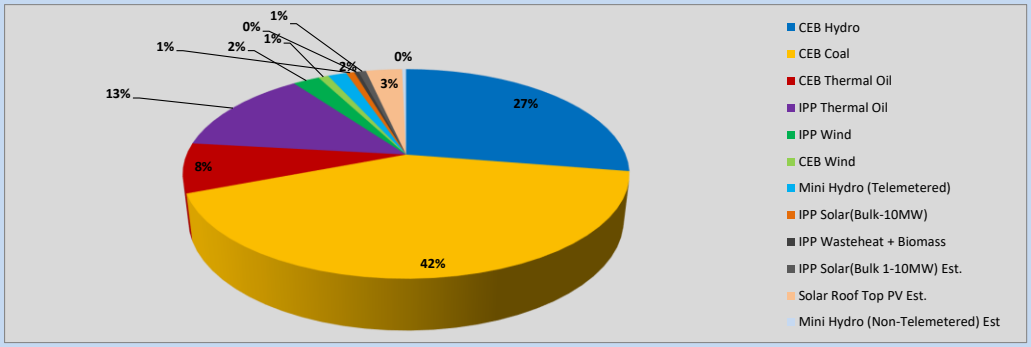


Table 01

	Generation (MWh)
CEB Hydro	12,919
CEB Coal	19,533
CEB Thermal Oil	3,583
IPP Thermal Oil	6,195
IPP Wind	1,081
CEB Wind	412
Mini Hydro (Telemetered)	757
IPP Solar (Bulk)	332
IPP Waste heat + Biomass	177
Total Generation (Excluding estimated figures)	**44,989**
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	161
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1470
Total Generation (Including estimated figures)	**46,924**

*** 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 [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	288	24.38%
CEB Coal	517	43.82%
CEB Thermal Oil	91	7.67%
IPP Thermal	108	9.18%
SPP Wind	18	1.52%
CEB Wind	20	1.71%
Mini Hydro *	69	5.82%
IPP Solar *	59	4.97%
IPP Waste heat + BMP	11	0.91%
Total	**1,180**	

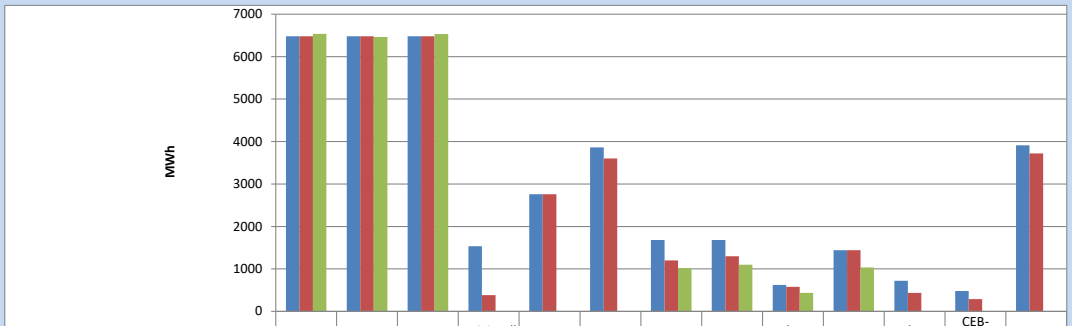
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	919	37.12%
CEB Coal	841	33.97%
CEB Thermal Oil	148	5.98%
IPP Thermal	154	6.22%
SPP Wind	34	1.39%
CEB Wind	42	1.70%
Mini Hydro *	188	7.58%
IPP Solar *	128	5.17%
IPP Waste heat	22	0.88%
Total	**2,476**	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

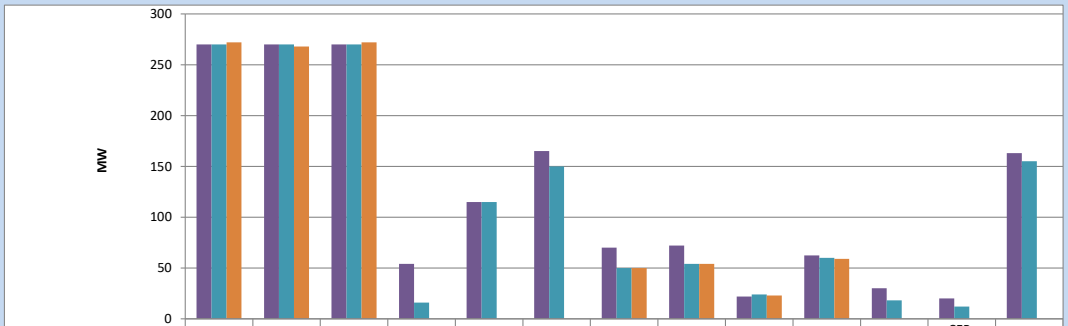
February 27, 2024



	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	434	288	3720
Actual generation (MWh)	6535.00	6464.00	6534.00	0.00	0.00	0.00	1017.00	1097.00	437.00	1032.00	0.00	0.00	0.00

Available Generation is estimated based on plant availability at 6.00am on February 28, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

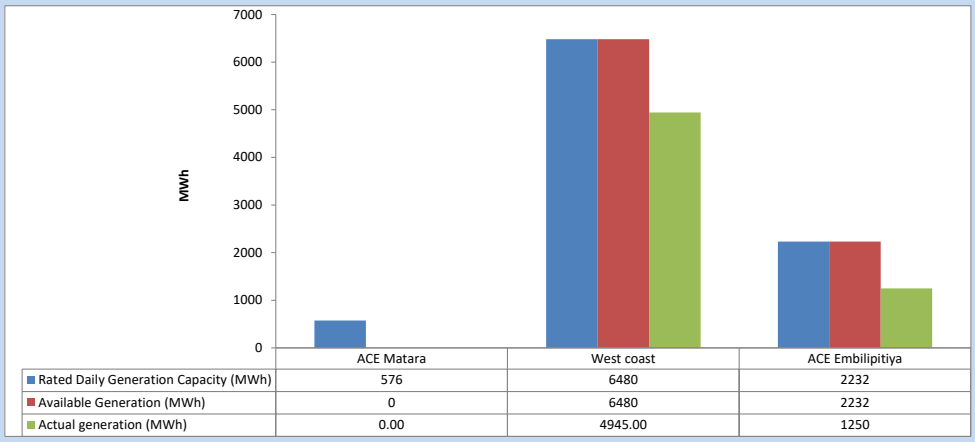


	Coal I	Coal II	Coal III	KPS Small GTs	KPS GT 7	KCCP	Sapu A	Sapu B	Uthura Janani	Barge CEB	Dakunu Janani	CEB-Mathugama	KCCPS -2
Installed Capacity (MW)	270	270	270	54	115	165	70	72	22	62.4	30	20	163
Available Capacity (MW)	270	270	270	16	115	150	50	54	24	60	18	12	155
Night Peak Load (MW)	272	268	272	0	0	0	50	54	23	59	0	0	0

Plant availability is recorded at 6.00 am on February 28, 2024

5. IPP owned Thermal Plant Dispatch

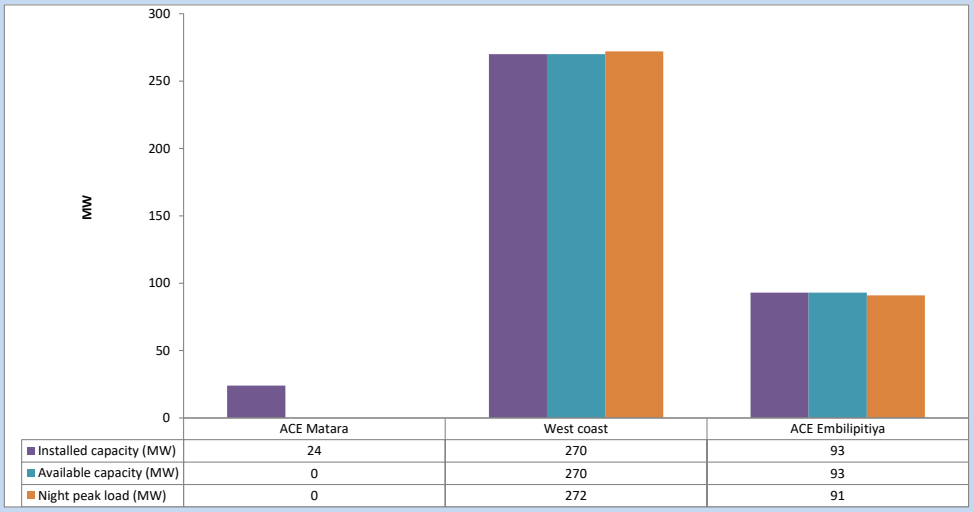
February 27, 2024



	ACE Matara	West coast	ACE Embilipitiya
Rated Daily Generation Capacity (MWh)	576	6480	2232
Available Generation (MWh)	0	6480	2232
Actual generation (MWh)	0.00	4945.00	1250

Available Generation is estimated based on plant availability at 6.00am on February 28, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

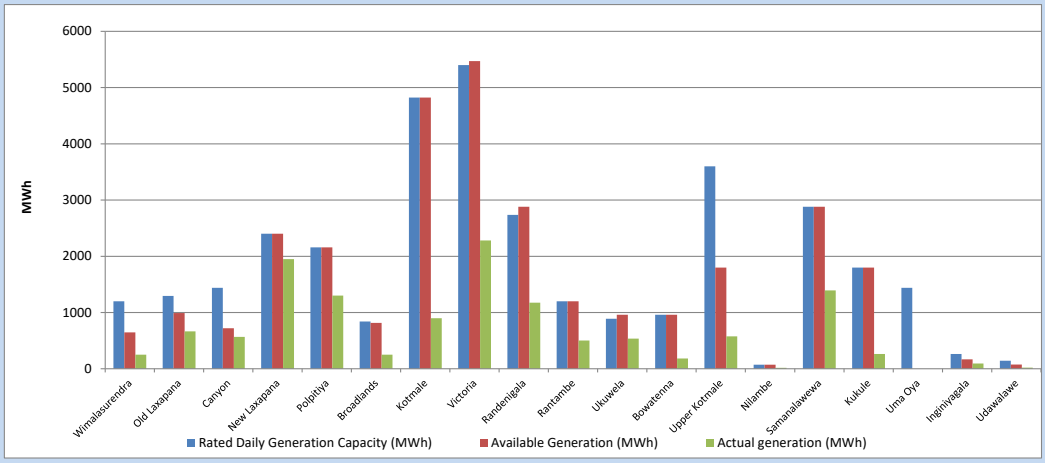


	ACE Matara	West coast	ACE Embilipitiya
Installed capacity (MW)	24	270	93
Available capacity (MW)	0	270	93
Night peak load (MW)	0	272	91

Plant availability is recorded at 6.00 am on February 28, 2024

7. Major Hydro Plant Dispatch

February 27, 2024

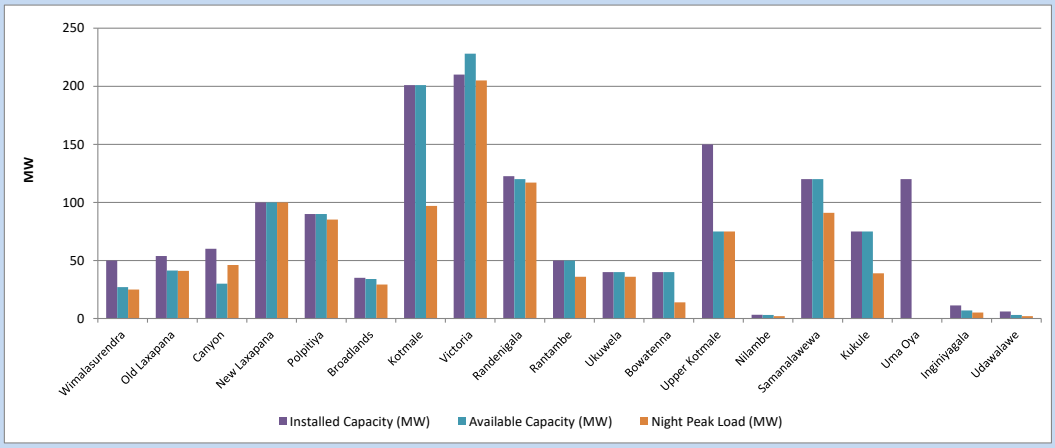


Available Generation is estimated based on plant availability at 6.00am on February 28, 2024

Broadlands power plant is operating in the Commissioning Stage

8. Major Hydro Plant Loading at Night Peak

February 27, 2024



Plant availability is recorded at 6.00 am on February 28, 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	27	25	249
Old Laxapana	54	41	41	665
Canyon	60	30	46	568
New Laxapana	100	100	100	1,951
Polpitiya	90	90	85	1,300
Broadlands	35	34	29	249
Kotmale	201	201	97	900
Victoria	210	228	205	2,280
Randenigala	123	120	117	1,176
Rantambe	50	50	36	502
Ukuwela	40	40	36	535
Bowatenna	40	40	14	183
Upper Kotmale	150	75	75	577
Nilambe	3	3	2	16
Samanalawewa	120	120	91	1,392
Kukule	75	75	39	263
Uma Oya (Testing)	120	0	0	0
Inginiyagala	11	7	5	95
Udawalawe	6	3	2	19
Puttalam Coal I	270	270	272	6,535
Puttalam Coal II	270	270	268	6,464
Puttalam Coal III	270	270	272	6,534
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	0	0
Sapugaskanda A	70	50	50	1,017
Sapugaskanda B	72	54	54	1,097
Uthura Janani	22	24	23	437
Barge CEB	62	60	59	1,032
CEB-Hambantota	30	18	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	272	4,945
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	91	1,250
Total	3,594	3,112	2,453	44,990

Note-

Plant availability is the availability recorded at 6 am on February 28, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

February 27, 2024

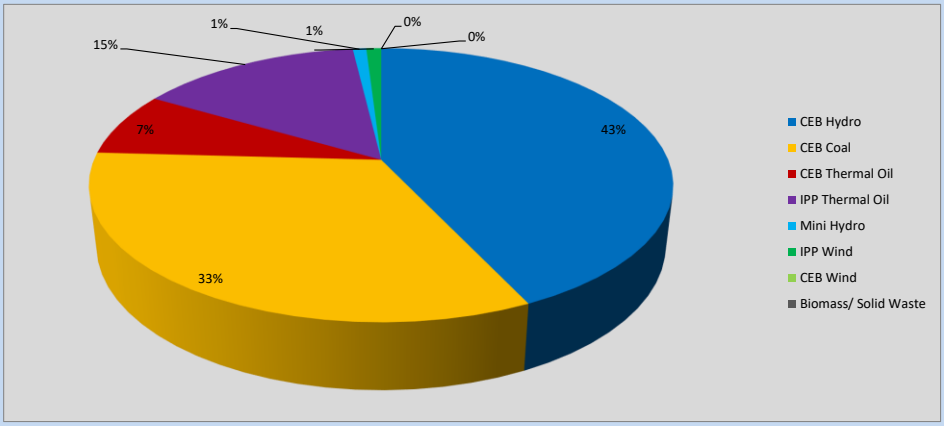


Table 06

CEB Hydro	1061	MW
CEB Coal	812	MW
CEB Thermal Oil	186	MW
IPP Thermal Oil	363	MW
Mini Hydro (Telemetered)	22	MW
IPP Wind	24.4	MW
CEB Wind	0	MW
Biomass/ Solid Waste	0	MW

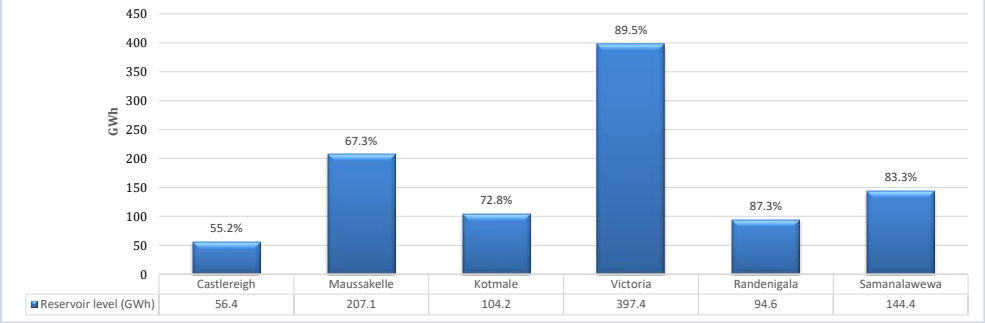
Recorded Peak Demand Data

Table 07

Night Peak*	2,469	MW
Day Peak Maximum Demand	2,264	MW
Day Peak Minimum Demand	1,651	MW
Off Peak Minimum Demand	1,394	MW

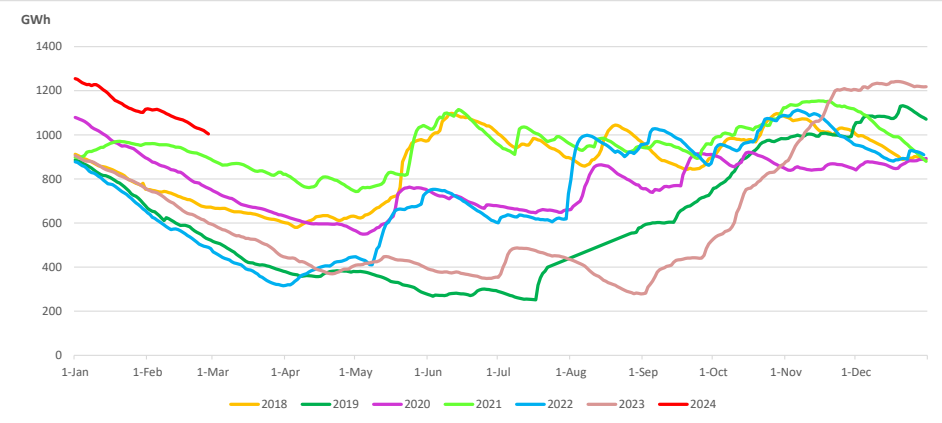
Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

Reservoir Levels - as at 06.00 Hr on February 28, 2024

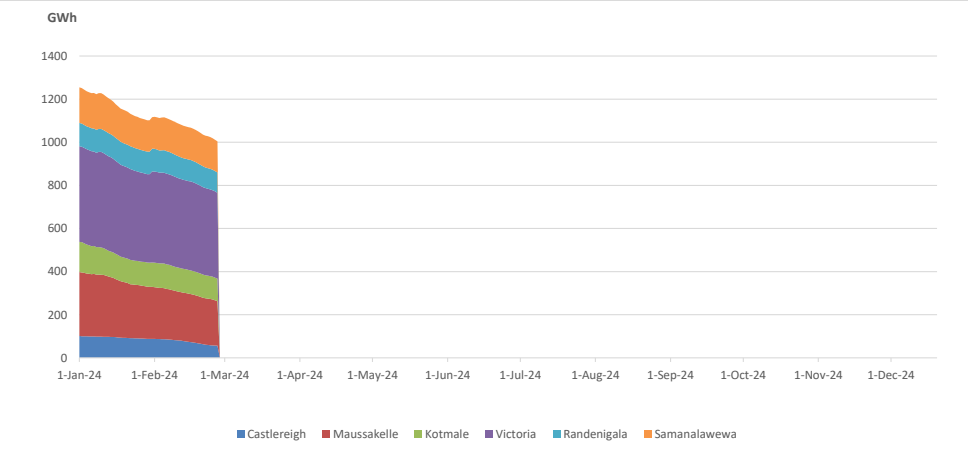


Total Reservoir Level 1004.1 GWh
% of Total capacity 78.5%

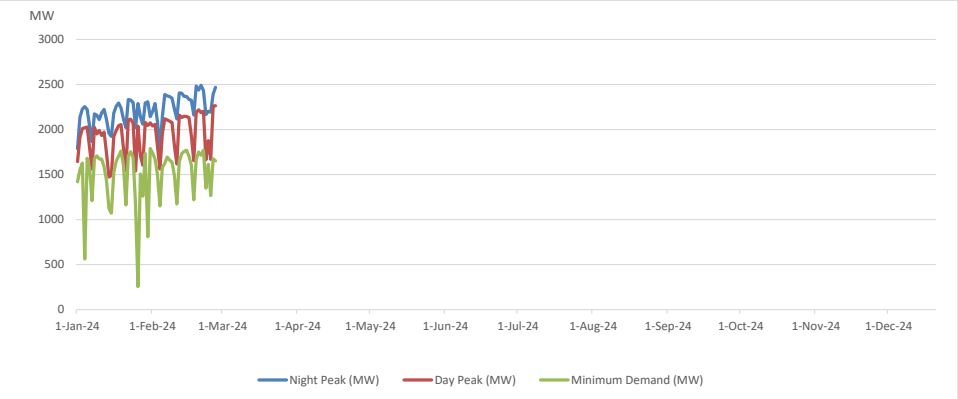
11. Comparison of Total Reservoir Storage Levels with Past Years



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



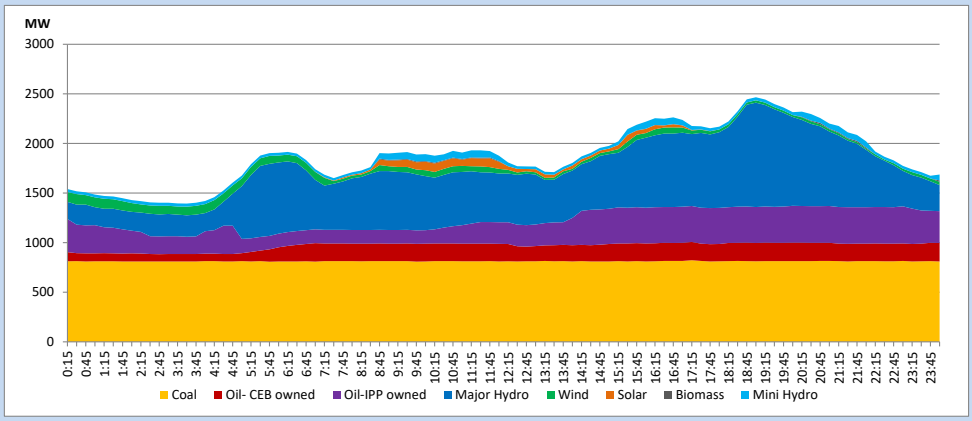
13. Variation of Demand during the current year



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

14. Daily Load Curve

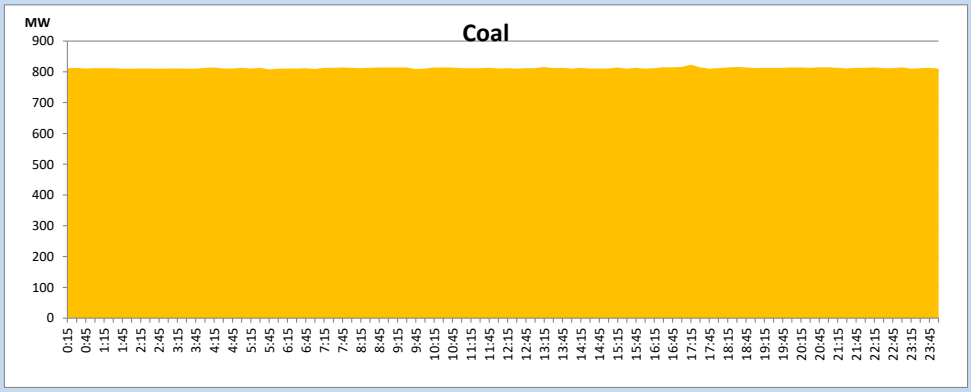
February 27, 2024



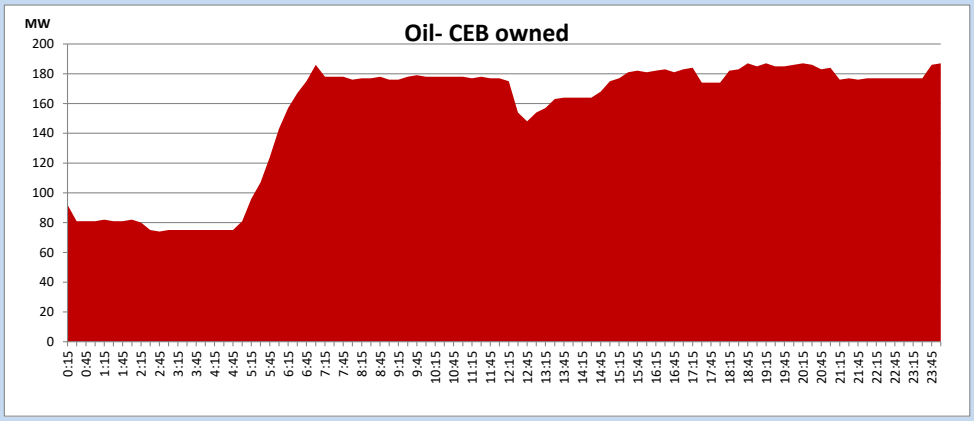
Solar and wind data is based on Telemetered Power Stations only

Coal Generation during

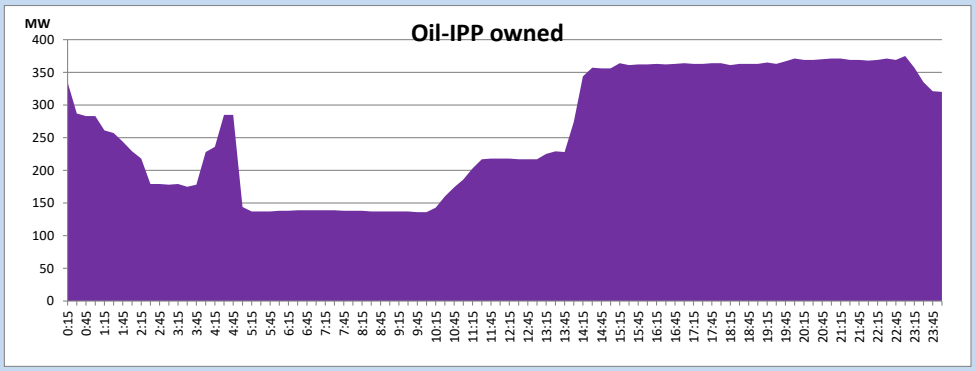
February 27, 2024



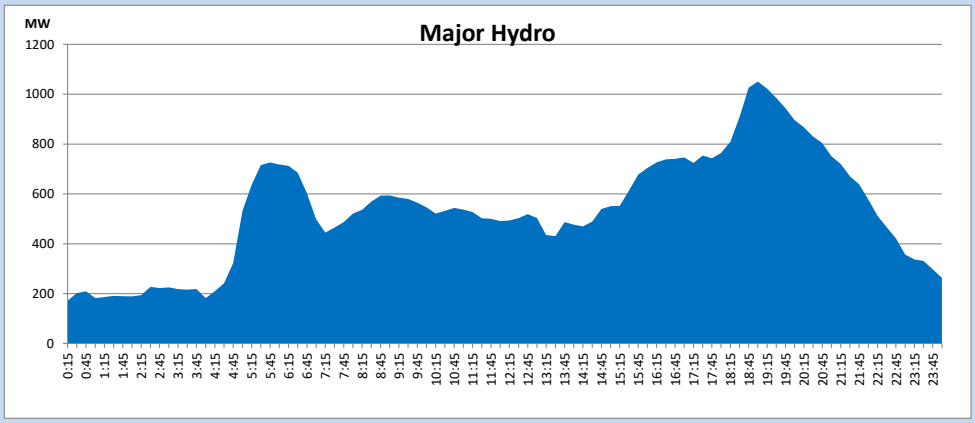
CEB Oil Plant Generation during **February 27, 2024**



IPP Oil Plant Generation during **February 27, 2024**

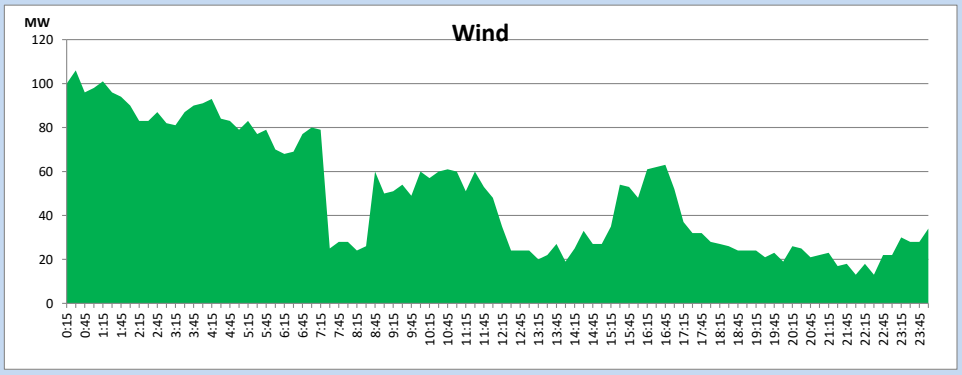


Major Hydro Generation during **February 27, 2024**



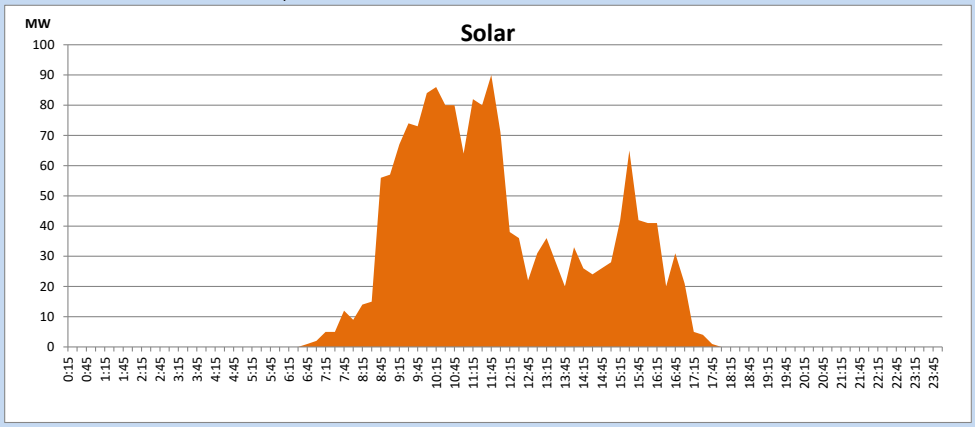
Wind Generation during February 27, 2024

Based on Telemetered Power Stations only

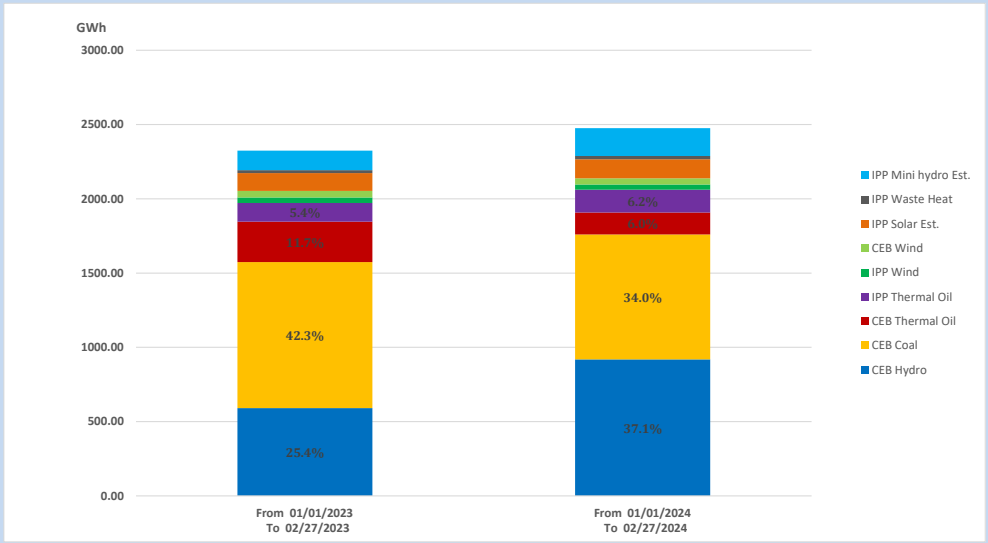


Solar Generation during February 27, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 02/27/2023 **2325 GWh**

From 01/01/2024 To 02/27/2024 **2476 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 27, 2024

1) WCP GT 02 made a forced shutdown at 04:51hrs due to bleed valve malfunction and GT 02 resumed generation at 13:00hrs and reached full load at 14:08hrs.

2) Sapugaskanda 132/33kV T/F 02, 03 & 04 tripped from both ends at 13:10hrs along with 33kV feeder 04 due to the operation of O/C protection causing all 33kV feeders of Sapugaskanda GSS to be dead. All affected T/Fs and feeders except feeder 04 were normalized by 13:48hrs.

3) New Anuradhapura - Mannar 220kV cct 01 and 02 failed to energize at 19:45 hrs from New Anuradhapura end after the total outage in Mannar GSS, causing delay of restoring Mannar GSS, Nadukuda GSS and Mannar Wind PS. Both ccts , Mannar GSS, Nadukuda GSS and Mannar Wind PS were restored by 20:47hrs.

4) Puttalam 132/33kV T/F 01