

Generation and Reservoirs Statistics

December 24, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 24, 2024

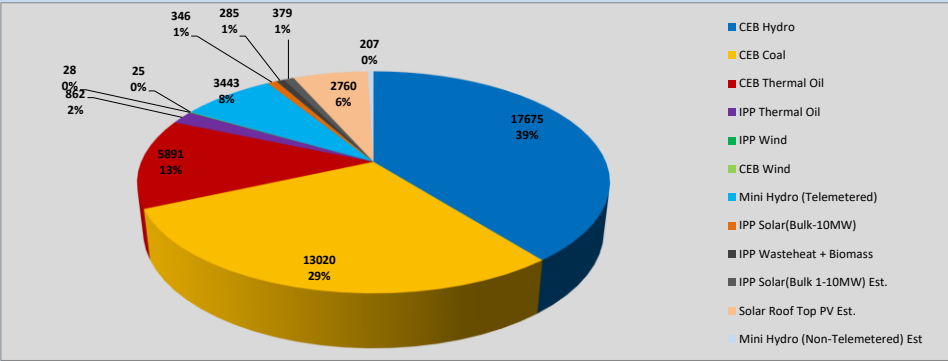


Table 01

	Generation (MWh)
CEB Hydro	17,675
CEB Coal	13,020
CEB Thermal Oil	5,891
IPP Thermal Oil	862
IPP Wind	28
CEB Wind	25
Mini Hydro (Telemetered)	3,443
IPP Solar (Bulk)	346
IPP Waste heat + Biomass	285
Total Generation (Excluding estimated figures)	41,575
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	207
* Estimated IPP Solar PV (Bulk 1-10MW)	379
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	44,921
* Estimated figures of CEB generation report	

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	578	52.73%
CEB Coal	246	22.42%
CEB Thermal Oil	21	1.92%
IPP Thermal	23	2.07%
IPP Wind	12	1.13%
CEB Wind	13	1.22%
Mini Hydro *	113	10.33%
IPP Solar *	81	7.39%
IPP Waste heat + BMP	9	0.80%
Total	1,096	

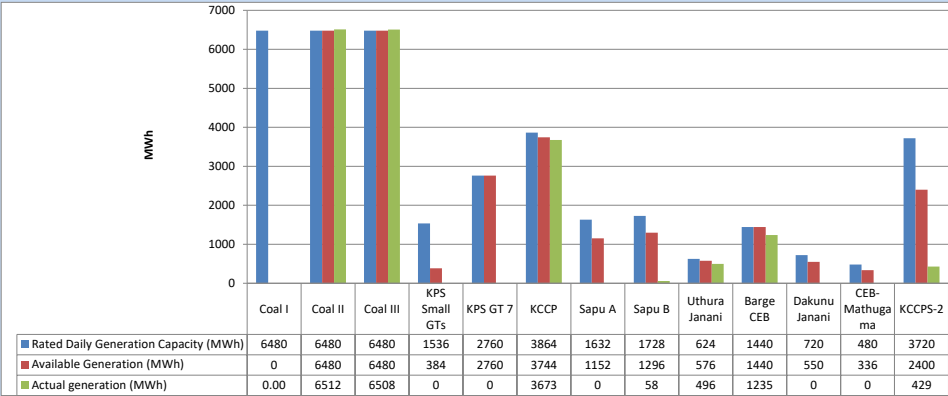
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,316	32.51%
CEB Coal	5,396	33.00%
CEB Thermal Oil	1,533	9.37%
IPP Thermal	758	4.64%
IPP Wind	396	2.42%
CEB Wind	379	2.32%
Mini Hydro *	1,368	8.36%
IPP Solar *	1,053	6.44%
IPP Waste heat	155	0.95%
Total	16,354	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

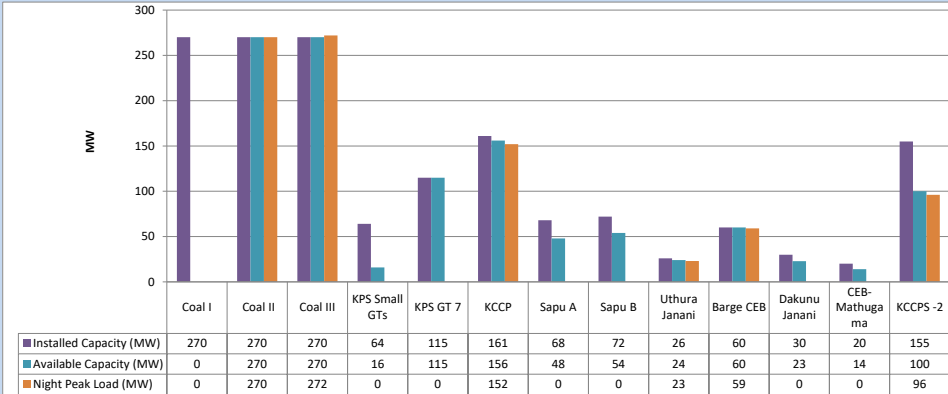
December 24, 2024



Available Generation is estimated based on plant availability at 6.00am on December 25, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

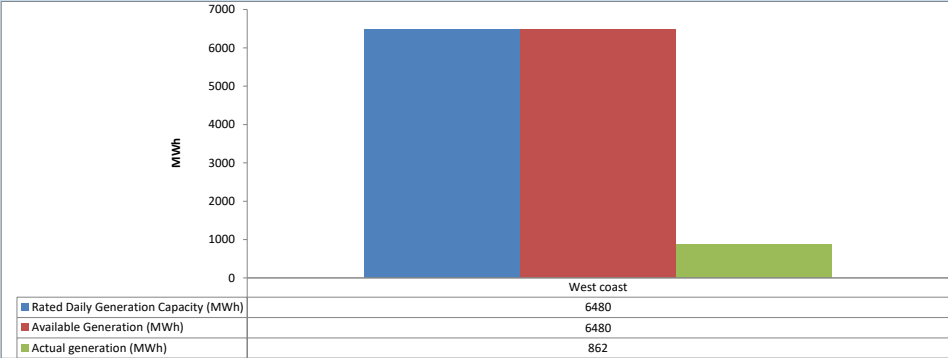
December 24, 2024



Plant availability is recorded at 6.00 am on December 25, 2024

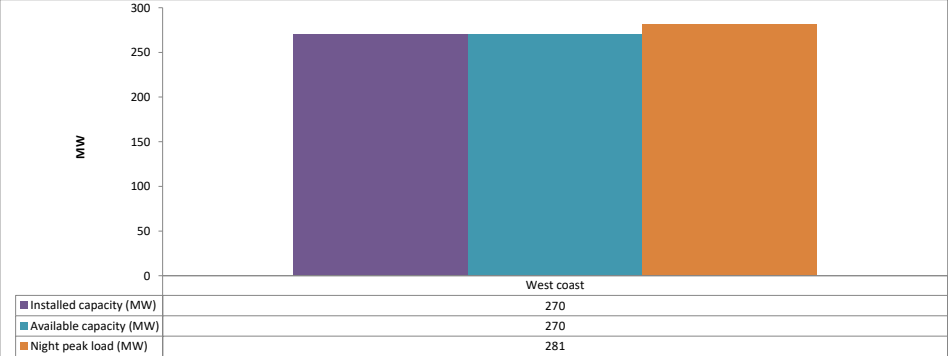
1.4 IPP owned Thermal Plant Dispatch

December 24, 2024



Available Generation is estimated based on plant availability at 6.00am on December 25, 2024

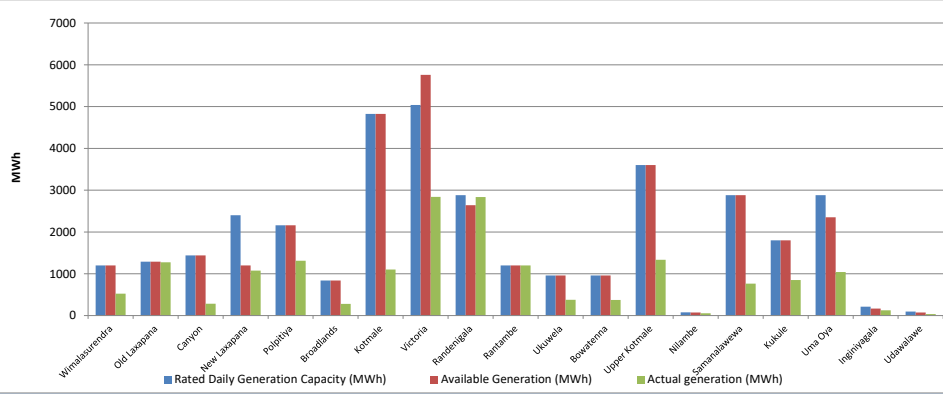
1.5 IPP owned Thermal Plant Loading at the Night Peak



Plant availability is recorded at 6.00 am on December 25, 2024

1.6 Major Hydro Plant Dispatch

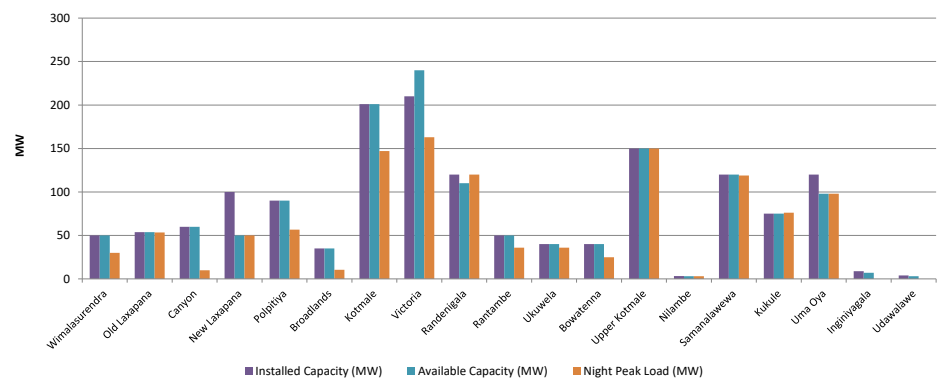
December 24, 2024



Available Generation is estimated based on plant availability at 6.00am on December 25, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 24, 2024



Plant availability is recorded at 6.00 am on December 25, 2024

1.8 Summary of Major Plant performance

December 24, 2024

Table 04				
Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	524
Old Laxapana	54	54	53	1,274
Canyon	60	60	10	282
New Laxapana	100	50	50	1,076
Polpitiya	90	90	57	1,310
Broadlands	35	35	11	278
Kotmale	201	201	147	1,100
Victoria	210	240	163	2,841
Randenigala	120	110	120	2,834
Rantambe	50	50	36	1,201
Ukuwela	40	40	36	377
Bowatenna	40	40	25	374
Upper Kotmale	150	150	150	1,334
Nilambe	3	3	3	55
Samanalawewa	120	120	119	765
Kukule	75	75	76	850
Uma Oya	120	98	98	1,043
Inginipagala	9	7	0	125
Udawalawe	4	3	0	34
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	270	6,512
Puttalam Coal III	270	270	272	6,508
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	152	3,673
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	58
Uthura Janani	26	24	23	496
Barge CEB	60	60	59	1,235
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS -2	155	100	96	429
West Coast	270	270	281	862
Sobadhanavi	220	212	0	0
Total	3,602	2,896	2,487	41,577

Note- Plant availability is the availability recorded at 6 am on December 25, 2024

1.9 Contribution to the Night Peak in MW

December 24, 2024

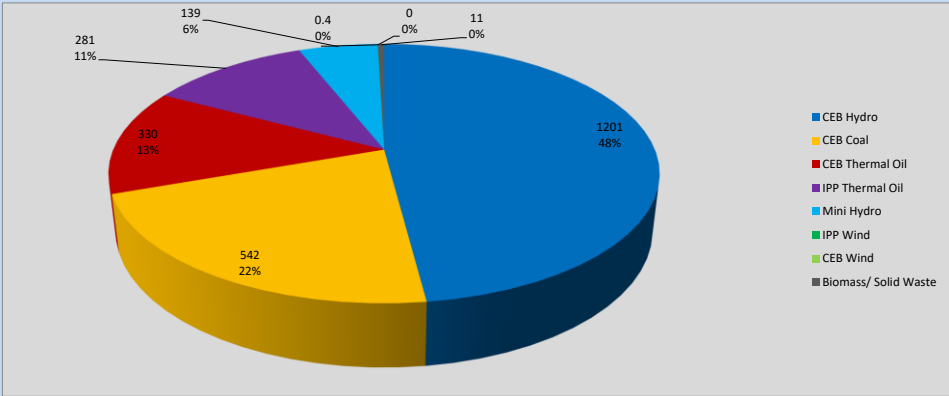


Table 05

CEB Hydro	1,201	MW
CEB Coal	542	MW
CEB Thermal Oil	330	MW
IPP Thermal Oil	281	MW
Mini Hydro (Telemetered)	139	MW
IPP Wind	0.4	MW
CEB Wind	0	MW
Biomass/ Solid Waste	11	MW

Recorded Peak Demand Data

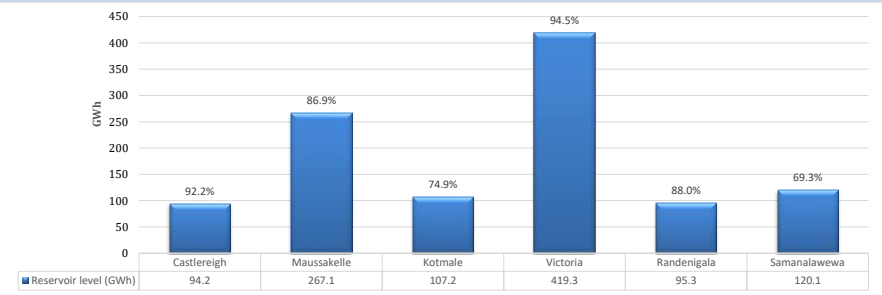
Table 06

Night Peak*	2,504	MW
Day Peak Maximum Demand	2,102	MW
Day Peak Minimum Demand	1,414	MW
Off Peak Minimum Demand	1,396	MW

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

1.10 Reservoir Levels -

as at 06.00 Hr on December 25, 2024



Total Reservoir Level 1,103 GWh
% of Total capacity 86.3%

1.11 Day Ahead Planned Demand Vs Actual Demand (Excluding non telemetered data)

December 24, 2024

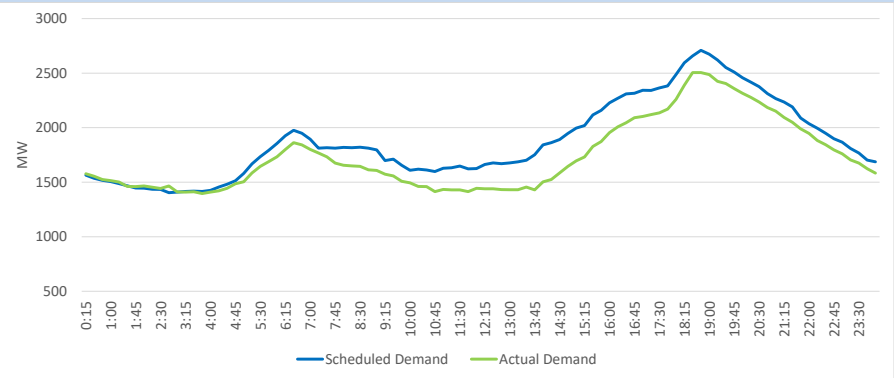
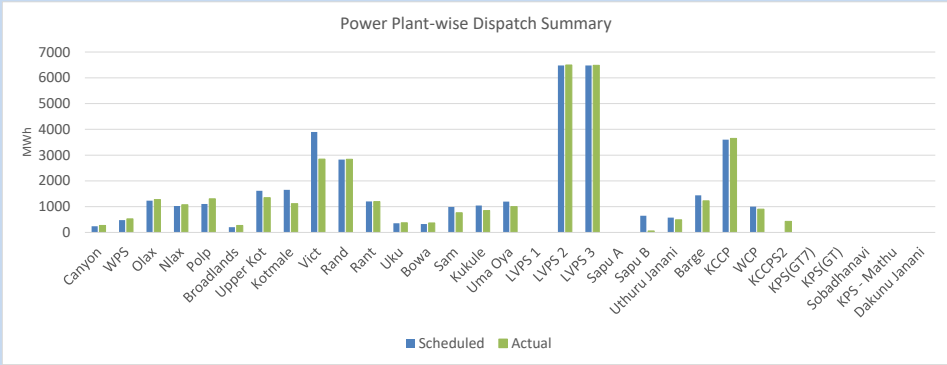


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	19,391	17,675	(1,716)
CEB Coal	12,960	13,020	60
CEB Thermal Oil	6,264	5,891	(373)
IPP Thermal Oil	1,000	862	(138)
NCRE (excluding non telemetered power plants)	5,481	4,127	(1,354)
Total	45,096	41,575	(3,521)

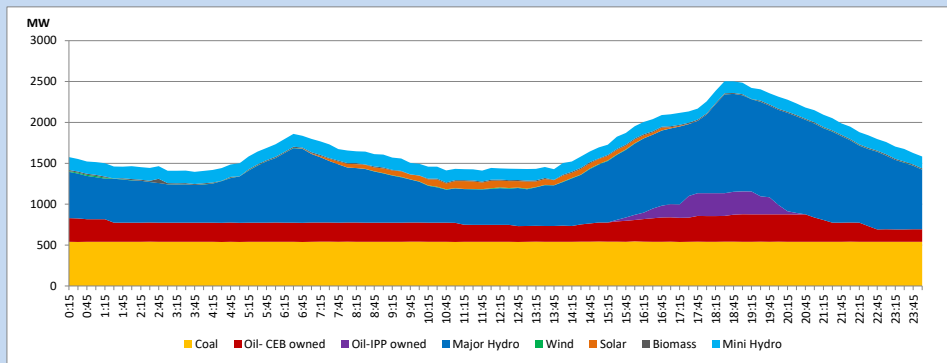
1.12 Power Plant-wise Dispatch Summary

December 24, 2024



1.13 Daily Load Curve

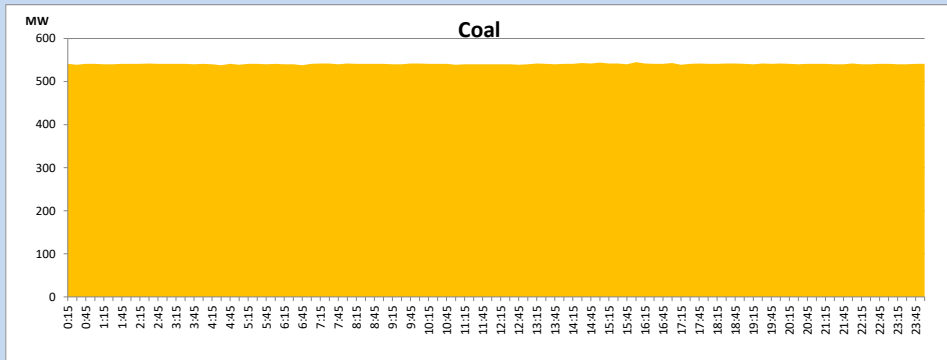
December 24, 2024



Solar and wind data is based on Telemetered Power Stations only

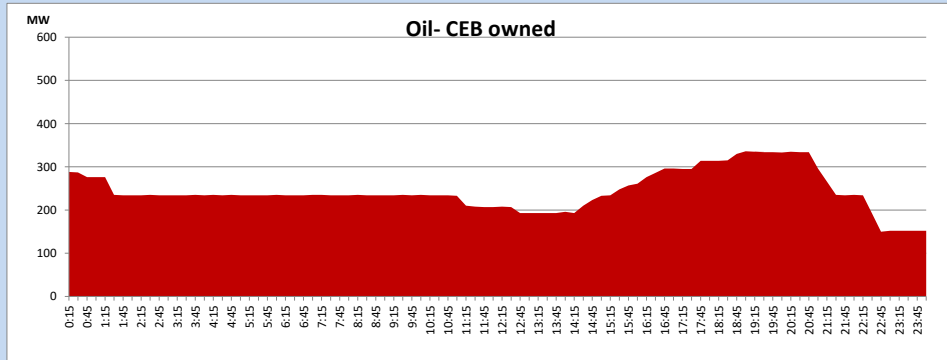
Coal Generation during

December 24, 2024

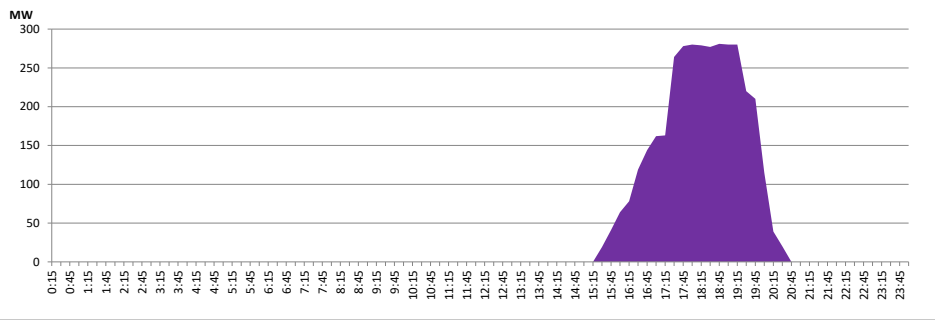


CEB Oil Plant Generation during

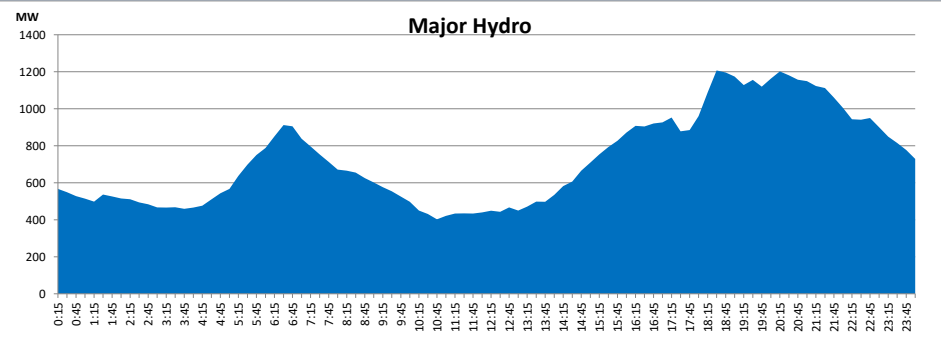
December 24, 2024



IPP Oil Plant Generation during December 24, 2024

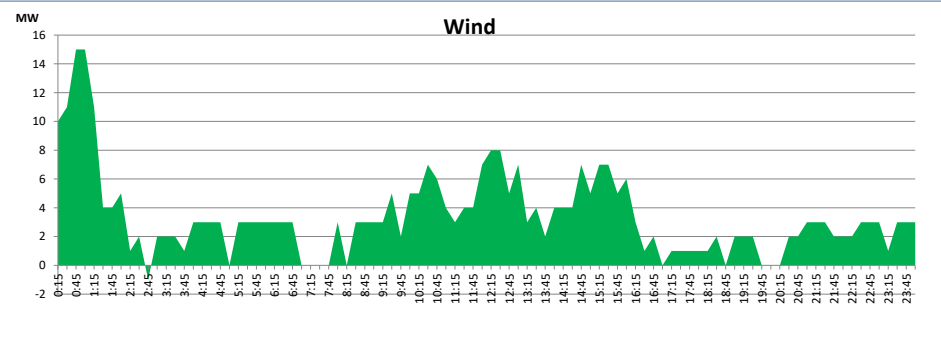


Major Hydro Generation during December 24, 2024



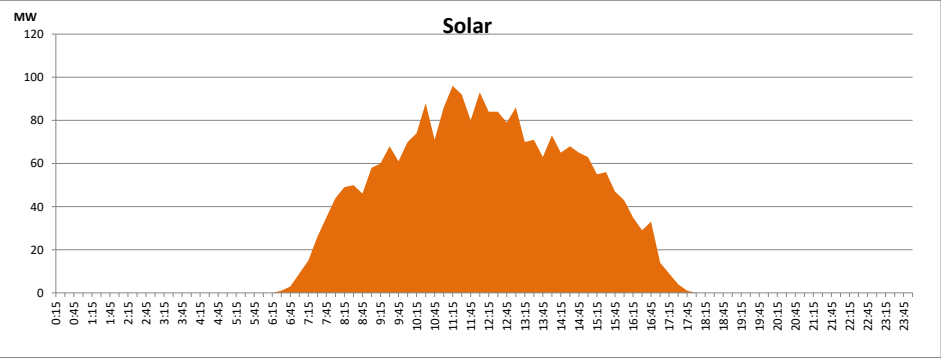
Wind Generation during December 24, 2024

Based on Telemetered Power Stations only



Solar Generation during December 24, 2024

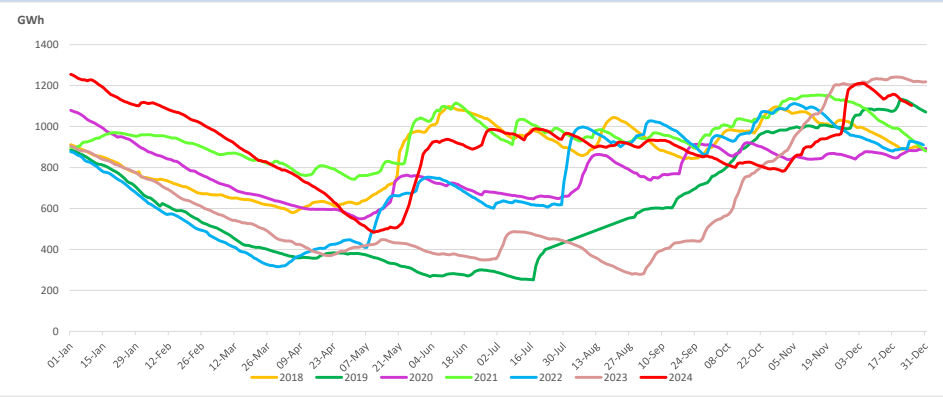
Based on Telemetered Power Stations only



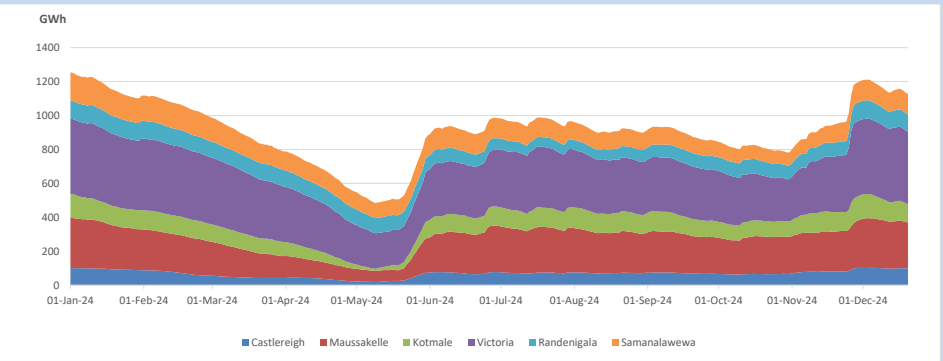
1.14 Major Incidents reported during the day December 24, 2024

- 1) Embilipitiya - Matara 132kV cct tripped and A/R from both ends at 07:16hrs due to the operation of Distance protection.
- 2) KCCPS-2 GT was dispatched from 15:26 hrs to 21:23 hrs due to a testing purpose of the plant.

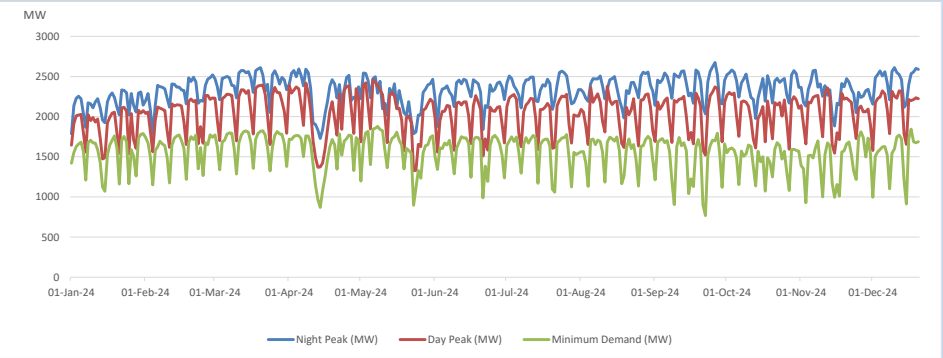
2. Comparison of Total Reservoir Storage Levels with Past Years



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

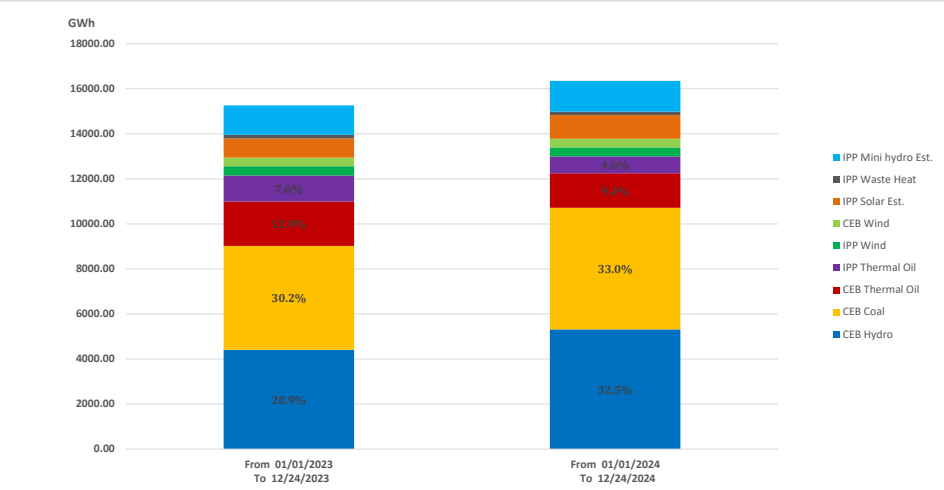


4. Variation of Demand during the current year



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

5. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
From 01/01/2023 To 12/24/2023 15,262 GWh
From 01/01/2024 To 12/24/2024 16,354 GWh
The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)
Unservd energy due to power cuts has been excluded in 2023

Thermal Power 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	Furnace oil
KCCPS -2	Auto Diesel

Power Station	Primary Fuel
Private Thermal	
West Coast	Auto Diesel / Heavy Fuel
Sobadhanavi	Auto Diesel

6. Installed System Capacity

Table 09

	Installed Capacity (MW)
CEB Hydro	1,531
CEB Coal	810
CEB Thermal Oil	771
IPP Thermal Oil (West Coast & Sobadhanavi)	482
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary) -CEB	495
Rooftop Solar (LT Bulk) -CEB	338
Rooftop Solar (HT Bulk)- CEB	104
Rooftop Solar - LECO	245

Data Source - Monthly Review Report Aug 2024 for NCRE installed capacities