

Generation and Reservoirs Statistics

December 28, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix

December 28, 2024

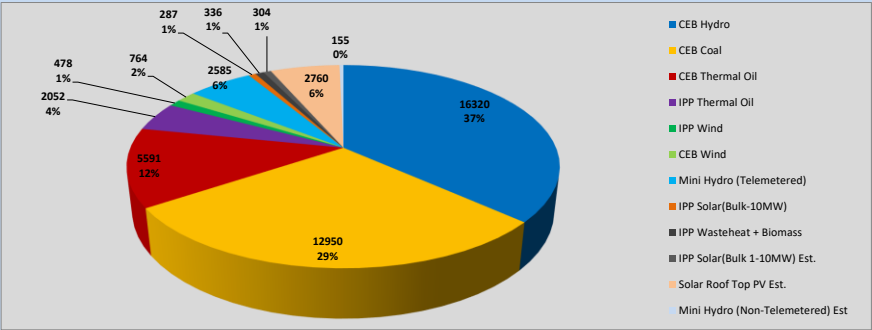


Table 01

	Generation (MWh)
CEB Hydro	16,320
CEB Coal	12,950
CEB Thermal Oil	5,591
IPP Thermal Oil	2,052
IPP Wind	478
CEB Wind	764
Mini Hydro (Telemetered)	2,585
IPP Solar (Bulk)	287
IPP Waste heat + Biomass	336
Total Generation (Excluding estimated figures)	41,363
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	155
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	2,760
Total Generation (Including estimated figures)	44,582

* Estimated figures of CEB generation report

1.1 Cumulative Dispatch - 2024

Table 02 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	647	51.08%
CEB Coal	296	23.34%
CEB Thermal Oil	39	3.11%
IPP Thermal	27	2.13%
IPP Wind	13	1.06%
CEB Wind	15	1.18%
Mini Hydro *	125	9.85%
IPP Solar *	92	7.22%
IPP Waste heat + BMP	10	0.80%
Total	1,268	

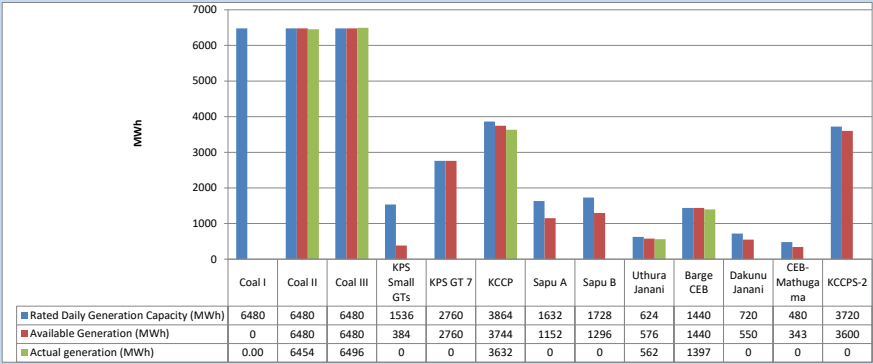
Table 03 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	5,386	32.59%
CEB Coal	5,446	32.96%
CEB Thermal Oil	1,551	9.39%
IPP Thermal	762	4.61%
IPP Wind	397	2.40%
CEB Wind	381	2.30%
Mini Hydro *	1,380	8.35%
IPP Solar *	1,067	6.45%
IPP Waste heat	156	0.94%
Total	16,526	

*Including estimated contribution from non telemetered plants

1.2 CEB owned Thermal Plant Dispatch

December 28, 2024

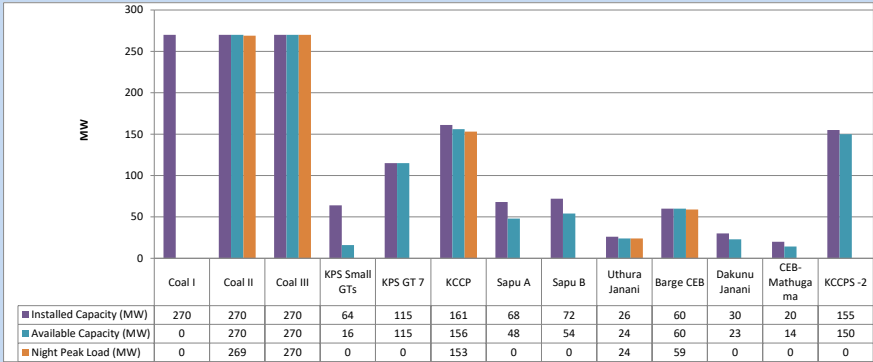


Available Generation is estimated based on plant availability at 6.00am on

December 29, 2024

1.3 CEB owned Thermal Plant Loading at the Night Peak

December 28, 2024

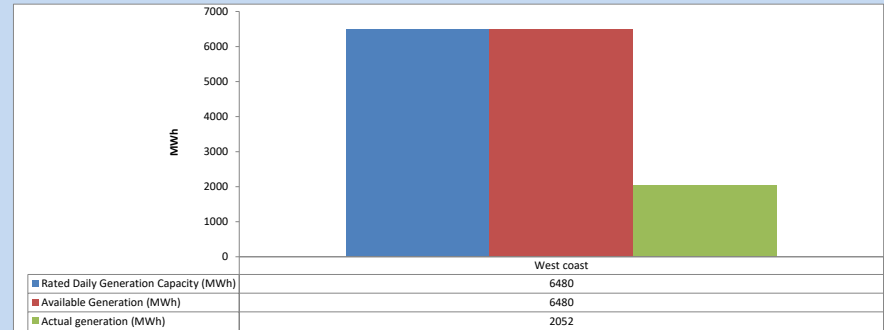


Plant availability is recorded at 6.00 am on

December 29, 2024

1.4 IPP owned Thermal Plant Dispatch

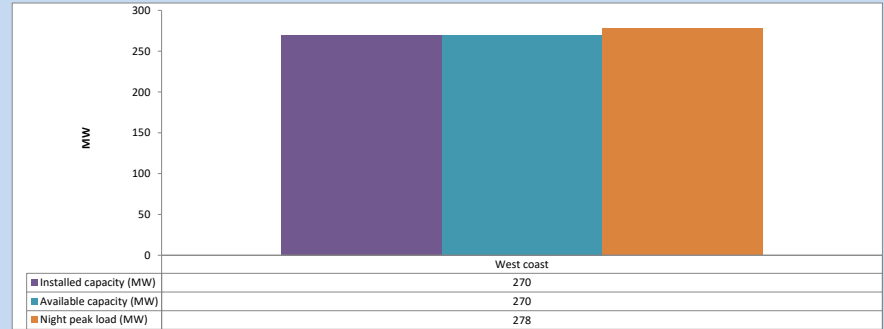
December 28, 2024



Available Generation is estimated based on plant availability at 6.00am on

December 29, 2024

1.5 IPP owned Thermal Plant Loading at the Night Peak

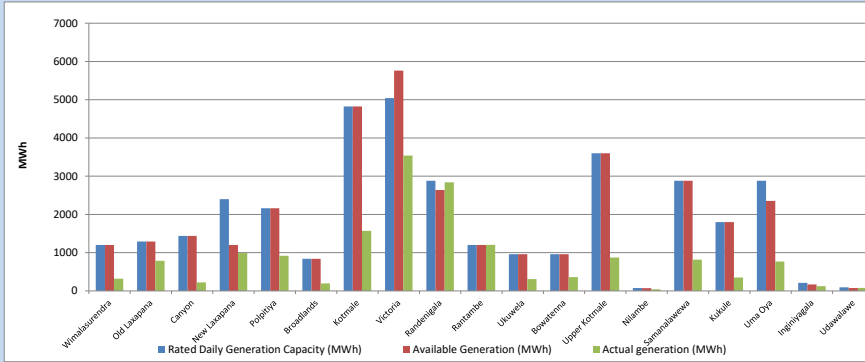


Plant availability is recorded at 6.00 am on

December 29, 2024

1.6 Major Hydro Plant Dispatch

December 28, 2024

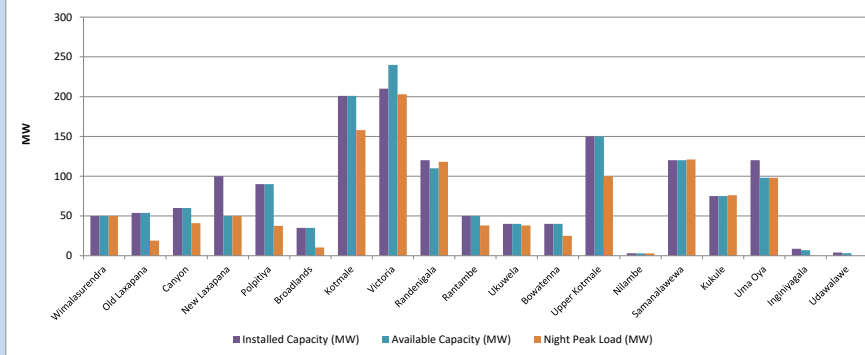


Available Generation is estimated based on plant availability at 6.00am on

December 29, 2024

1.7 Major Hydro Plant Loading at Night Peak

December 28, 2024



Plant availability is recorded at 6.00 am on

December 29, 2024

1.8 Summary of Major Plant performance

December 28, 2024

Table 04

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	50	320
Old Laxapana	54	54	19	787
Canyon	60	60	41	221
New Laxapana	100	50	50	992
Polpitiya	90	90	38	920
Broadlands	35	35	10	195
Kotmale	201	201	158	1,570
Victoria	210	240	203	3,540
Randenigala	120	110	118	2,841
Rantambe	50	50	38	1,206
Ukuwela	40	40	38	310
Bowatenna	40	40	25	363
Upper Kotmale	150	150	100	875
Nilambe	3	3	3	42
Samanalawewa	120	120	121	816
Kukule	75	75	76	349
Uma Oya	120	98	98	769
Inginigala	9	7	0	125
Udawalawe	4	3	0	79
Puttalam Coal I	270	0	0	0
Puttalam Coal II	270	270	269	6,454
Puttalam Coal III	270	270	270	6,496
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	156	153	3,632
Sapugaskanda A	68	48	0	0
Sapugaskanda B	72	54	0	0
Uthura Janani	26	24	24	562
Barge CEB	60	60	59	1,397
CEB-Hambantota	30	23	0	0
CEB-Mathugama	20	14	0	0
KCCPS-2	155	150	0	0
West Coast	270	270	278	2,052
Sobadhanavi	220	212	0	0
Total	3,602	2,946	2,437	41,363

Note-

Plant availability is the availability recorded at 6 am on

December 29, 2024

1.9 Contribution to the Night Peak in MW

December 28, 2024

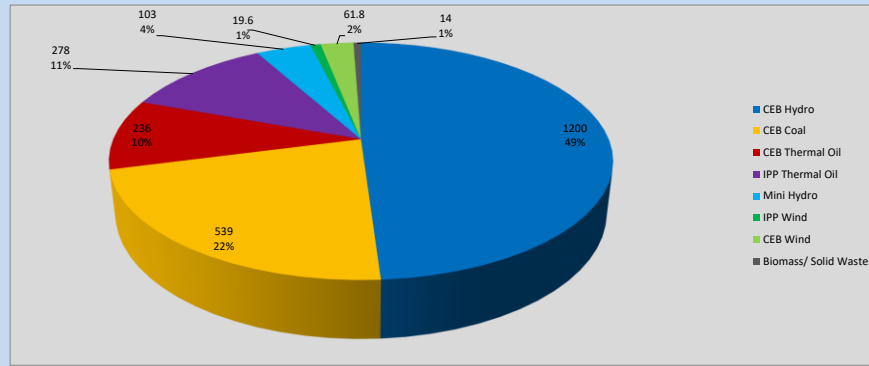


Table 05

CEB Hydro	1,200	MW
CEB Coal	539	MW
CEB Thermal Oil	236	MW
IPP Thermal Oil	278	MW
Mini Hydro (Telemetered)	103	MW
IPP Wind	19.6	MW
CEB Wind	61.8	MW
Biomass/ Solid Waste	14	MW

Recorded Peak Demand Data

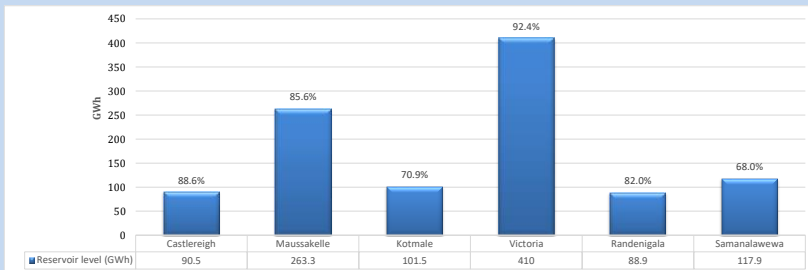
Table 06

Night Peak*	2,451	MW
Day Peak Maximum Demand	1,940	MW
Day Peak Minimum Demand	1,450	MW
Off Peak Minimum Demand	1,382	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 29, 2024



Total Reservoir Level
% of Total capacity

1,072 GWh
83.9%

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

December 28, 2024

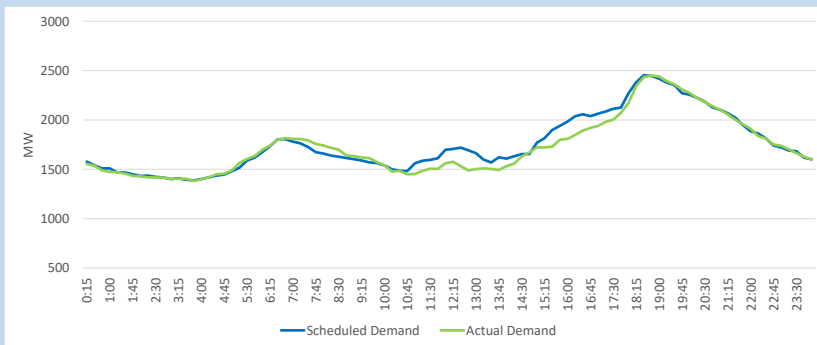
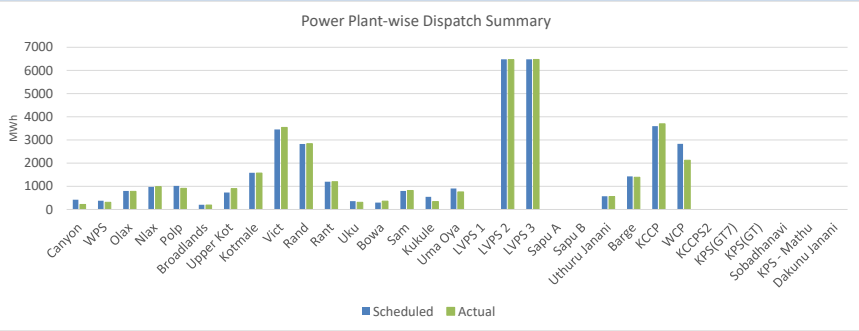


Table 07

Category	Scheduled Dispatch (MWh)	Actual Dispatch (MWh)	Deviation (MWh)
Major Hydro	16,497	16,320	(177)
CEB Coal	12,960	12,950	(10)
CEB Thermal Oil	5,595	5,591	(4)
IPP Thermal Oil	2,835	2,052	(783)
NCRE (excluding non telemetered power plants)	4,160	4,450	290
Total	42,047	41,363	(684)

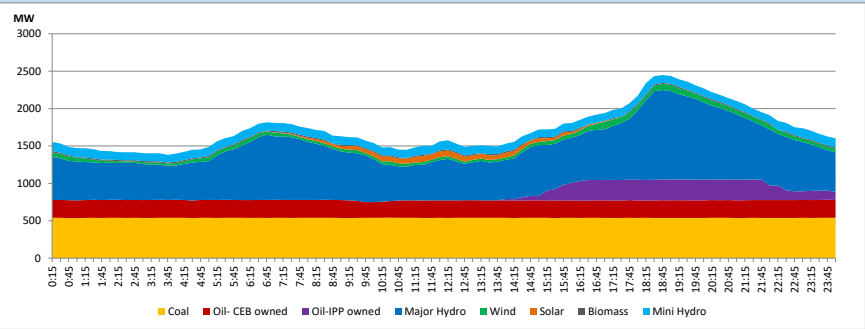
1.12 Power Plant-wise Dispatch Summary

December 28, 2024



1.13 Daily Load Curve

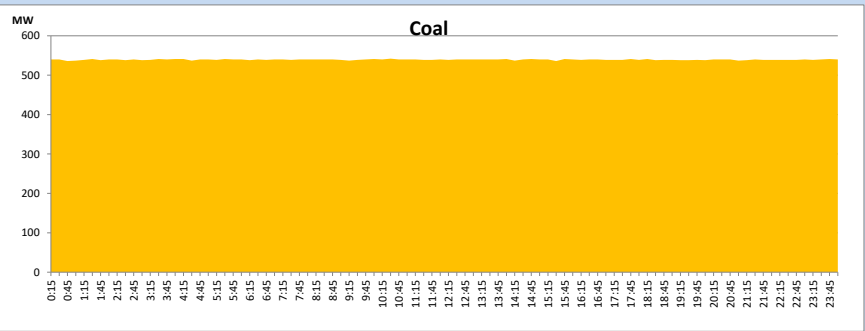
December 28, 2024



Solar and wind data is based on Telemetered Power Stations only

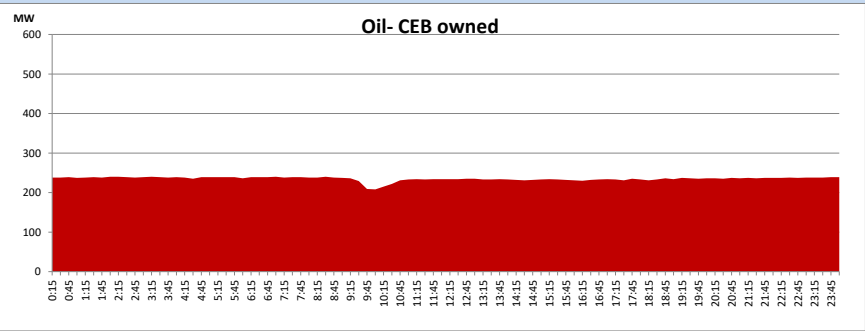
Coal Generation during

December 28, 2024

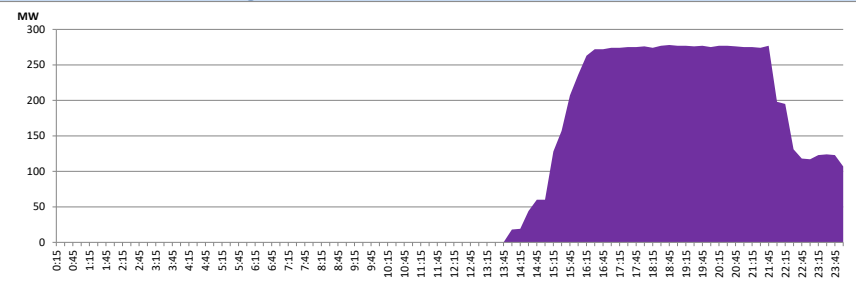


CEB Oil Plant Generation during

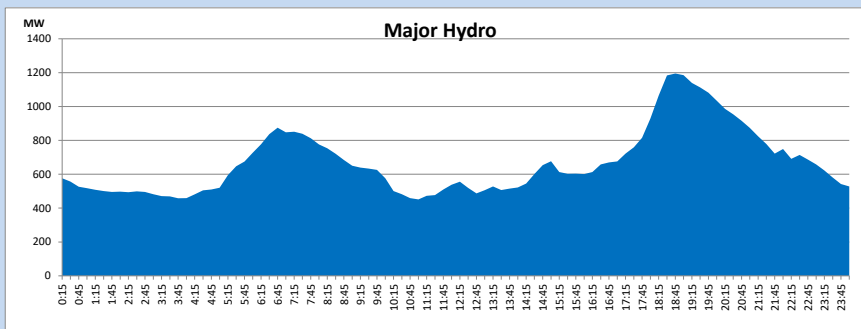
December 28, 2024



IPP Oil Plant Generation during December 28, 2024

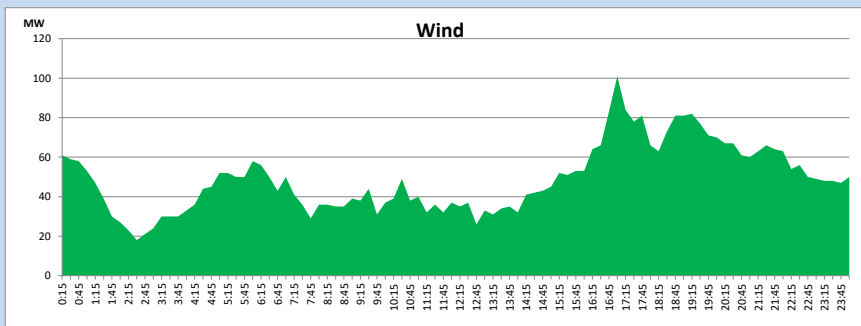


Major Hydro Generation during December 28, 2024



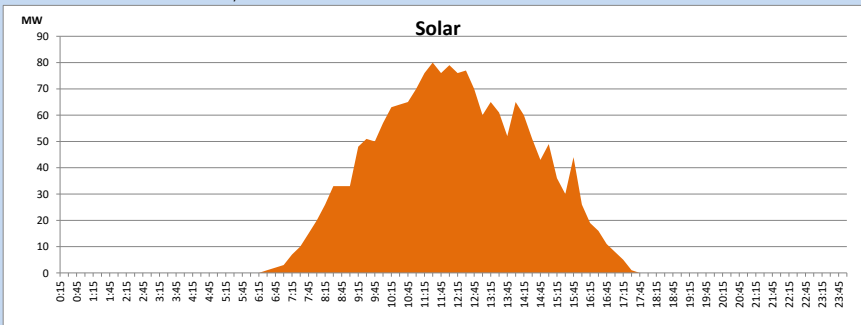
Wind Generation during December 28, 2024

Based on Telemetered Power Stations only



Solar Generation during December 28, 2024

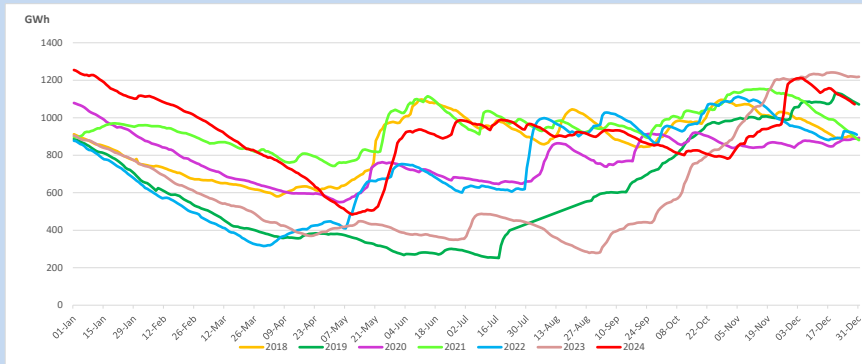
Based on Telemetered Power Stations only



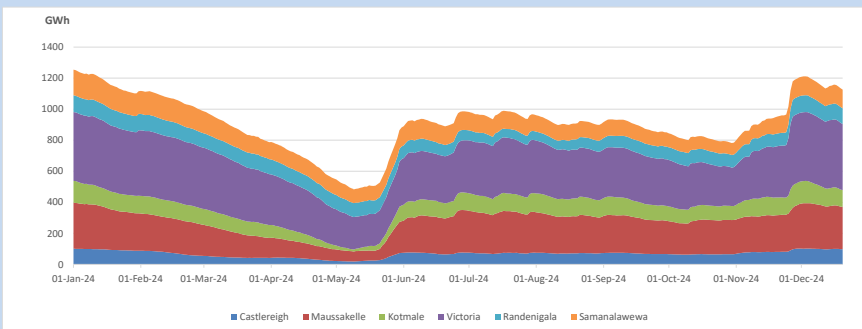
1.14 Major Incidents reported during the day December 28, 2024

- 1) O'Laxapana unit 01 tripped at 9:27hrs due to the operation of stator winding temperature high alarm, rejecting 9.6MW from the system. O'Laxapana unit 01 resumed generation at 9:33hrs.
- 2) Ukuwela Unit 02 was stopped at 10:10hrs to facilitate a dead body search (Ukuwela unit 01 was under maintenance). Ukuwela unit 01 and 02 resumed generation at 17:52hrs and 17:46hrs, respectively.

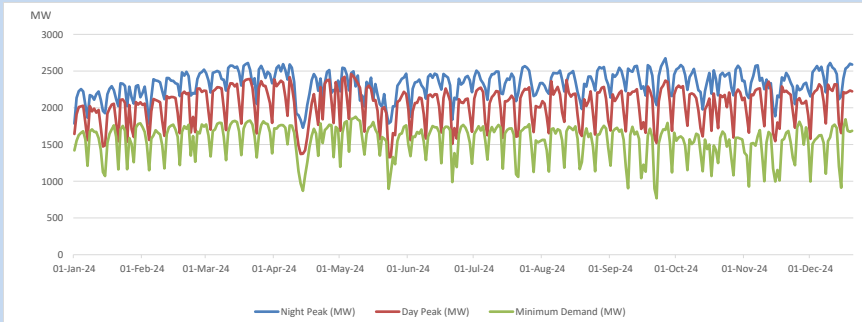
2. Comparison of Total Reservoir Storage Levels with Past Years



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

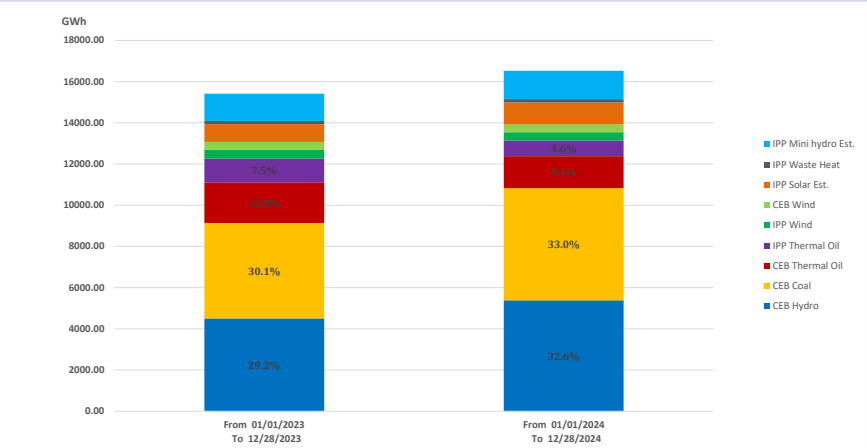


4. Variation of Demand during the current year



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 12/28/2023 15,414 GWh
From 01/01/2024 To 12/28/2024 16,526 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 Capcity

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