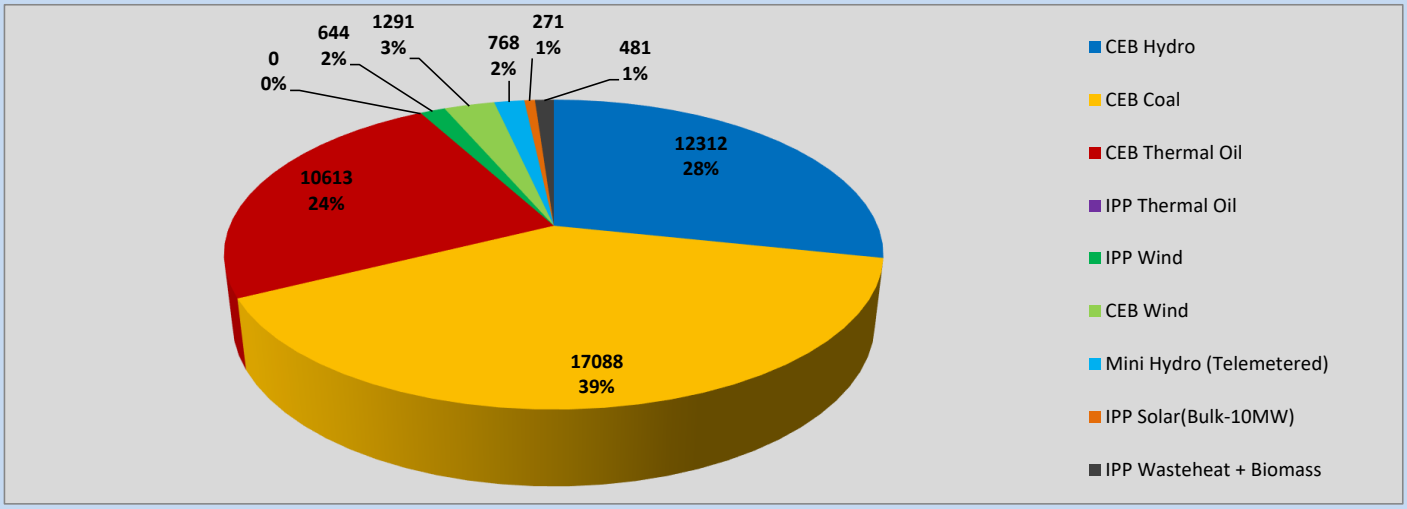
Generation and Reservoirs Statistics

May 29, 2023

PUBLIC UTILITIES COMMISSION OF SRI LANKA

Daily Generation Mix in MWh



Total Generation (Excluding estimated figures) = 43,468 MWh

Estimated figures of CEB generation report

Estimated unserved energy = 0.00 GWh

Estimated Mini Hydro (Non telemetered) = 3222 MWh

Estimated IPP Solar PV (Bulk 1-10MW) = 304 MWh

Estimated Solar Roof Top PV = 1920 MWh

Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

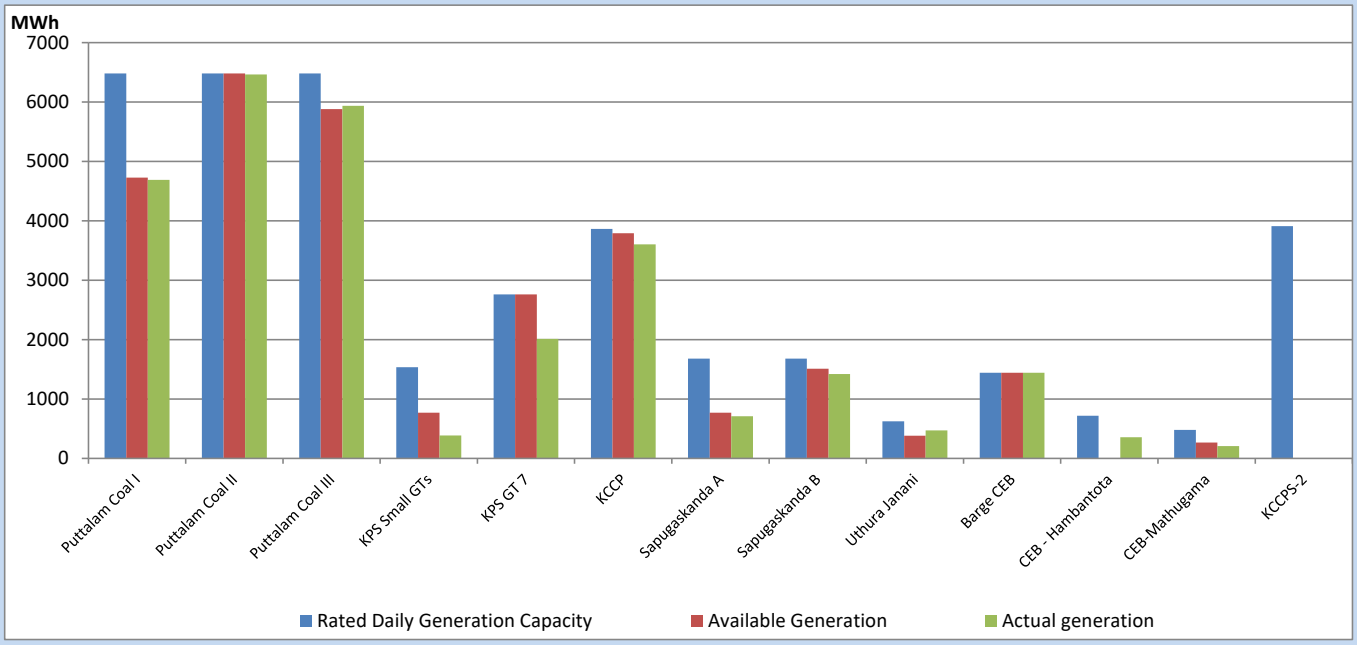
For Current Month

Category	Dispatch (GWh)	
CEB Hydro	254	22.79%
CEB Coal	474	42.43%
CEB Thermal Oil	172	15.40%
IPP Thermal	99	8.91%
SPP Wind	31	2.77%
CEB Wind	38	3.42%
Mini Hydro (Telemetered)	28	2.52%
IPP Solar(Bulk-10MW)	8	0.72%
IPP Wasteheat + BMP	11	1.03%
Total	**1,117**	

For Current Year

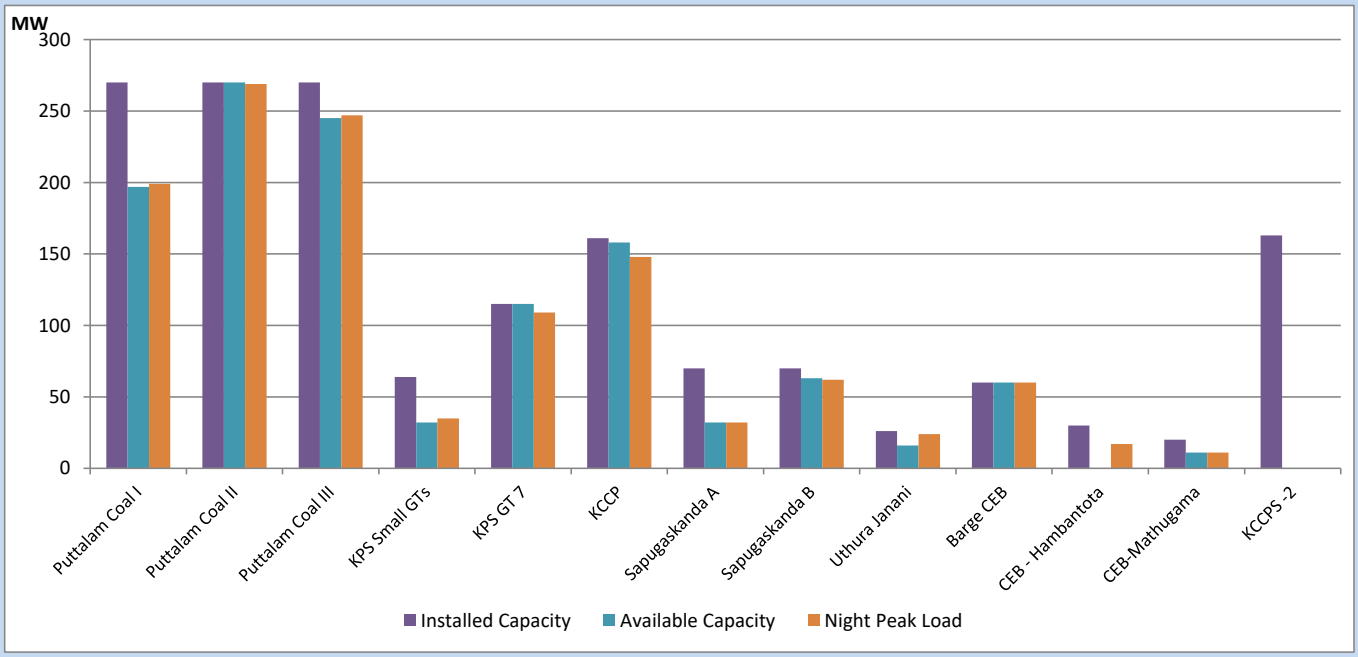
Category	Dispatch (GWh)	
CEB Hydro	1,456	25.68%
CEB Coal	2,461	43.39%
CEB Thermal Oil	827	14.59%
IPP Thermal	517	9.12%
SPP Wind	89	1.57%
CEB Wind	108	1.91%
Mini Hydro (Telemetered)	124	2.18%
IPP Solar(Bulk-10MW)	43	0.75%
IPP Wasteheat	46	0.82%
Total	**5,671**	

CEB owned Thermal Plant Dispatch May 29, 2023



Available Generation is estimated based on plant availability at 6.00am on May 30, 2023

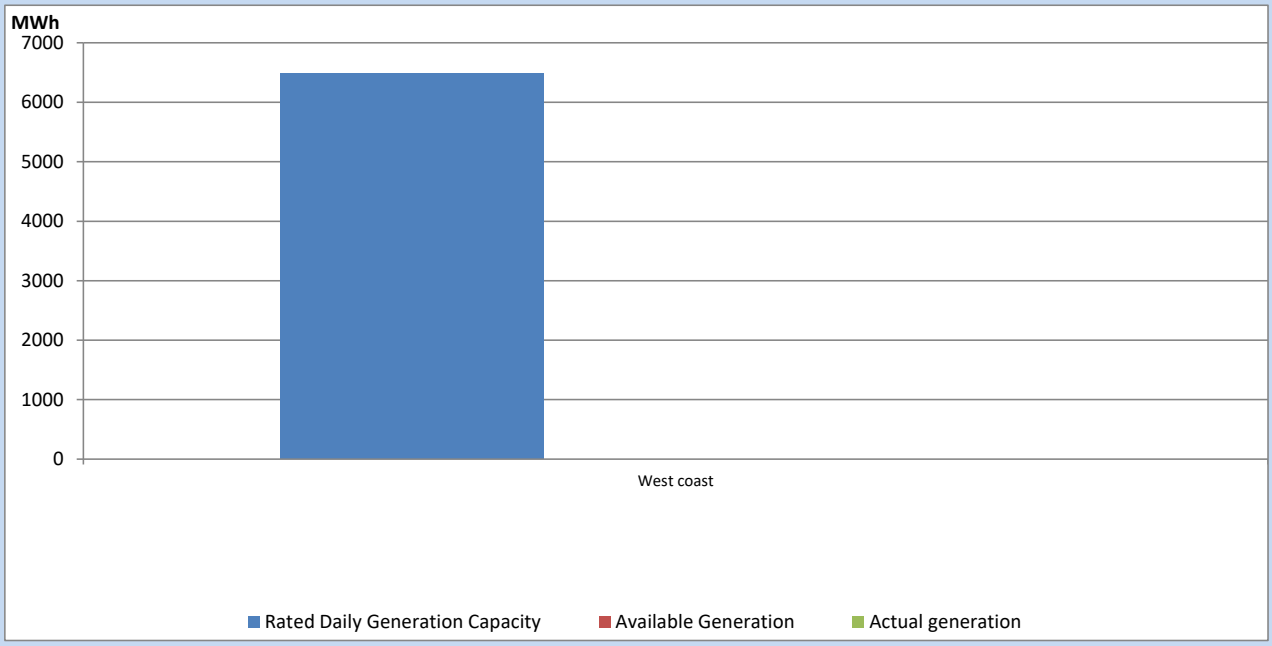
CEB owned Thermal Plant Loading at the Night Peak



Note-

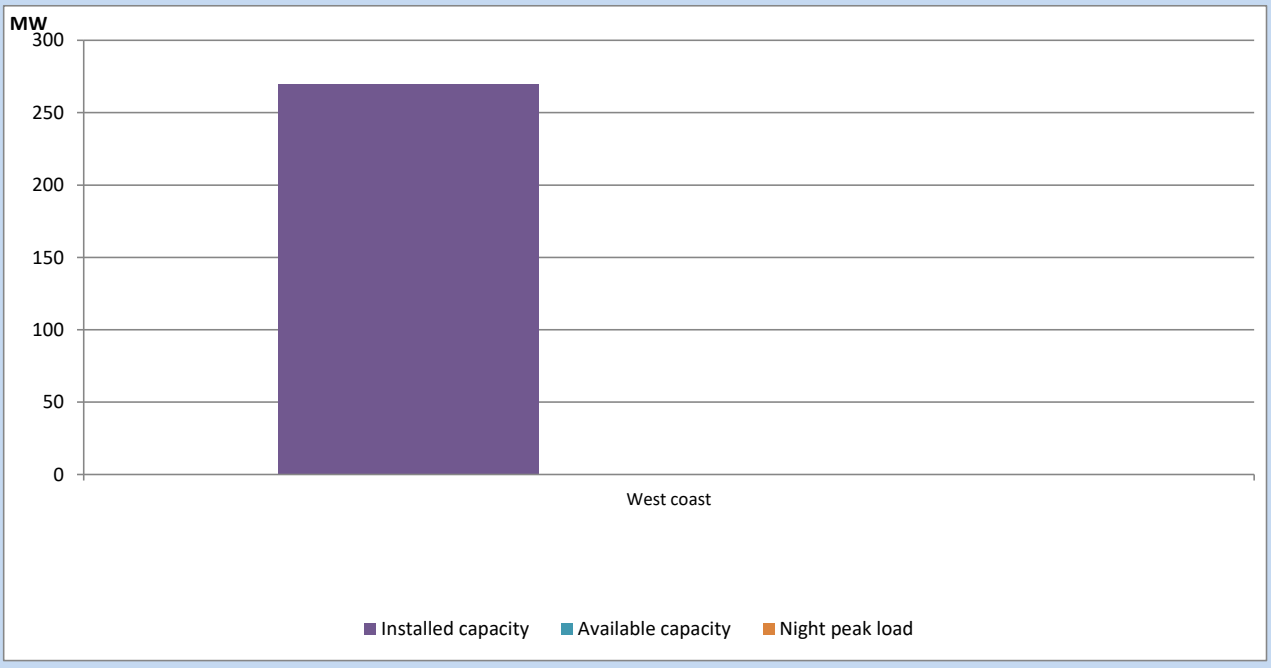
Plant avilability is recorded at 6.00 am on May 30, 2023

IPP owned Thermal Plant Dispatch May 29, 2023



Available Generation is estimated based on plant availability at 6.00am on May 30, 2023

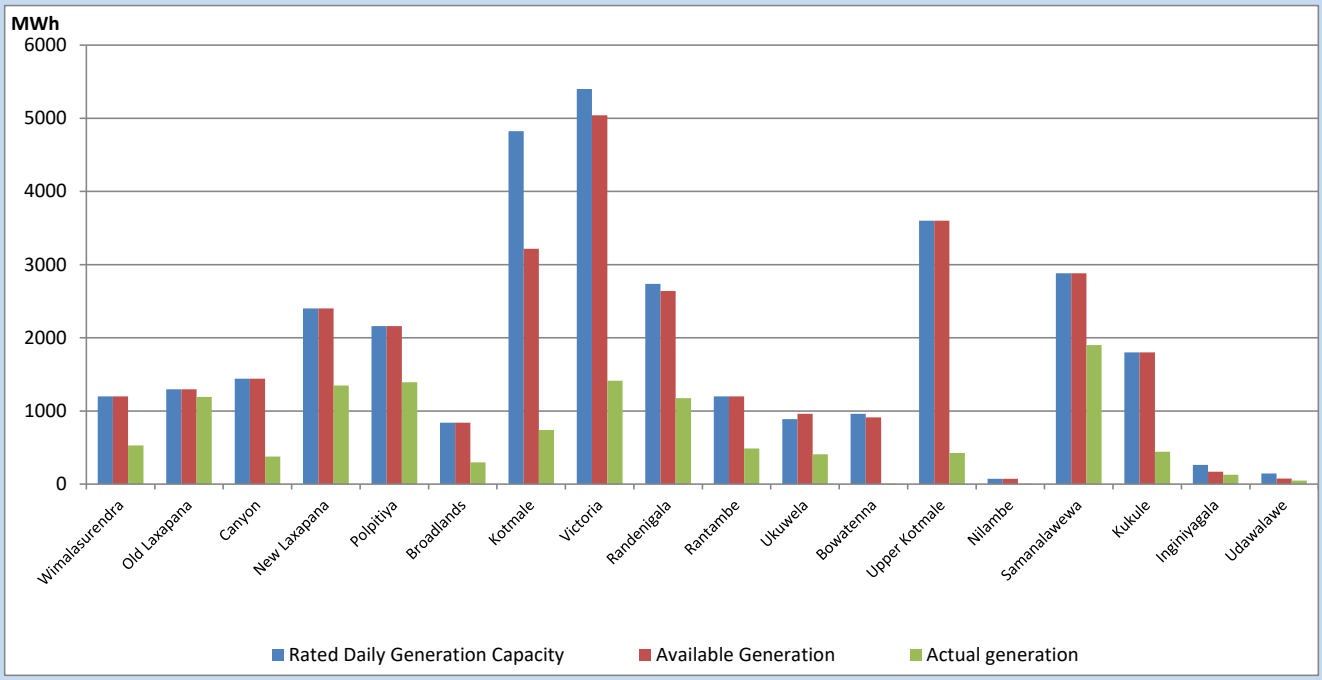
IPP owned Tharmal Plant Loading at the Night Peak



Note- Plant avilability is recorded at 6.00 am on May 30, 2023

Major Hydro Plant Dispatch

May 29, 2023

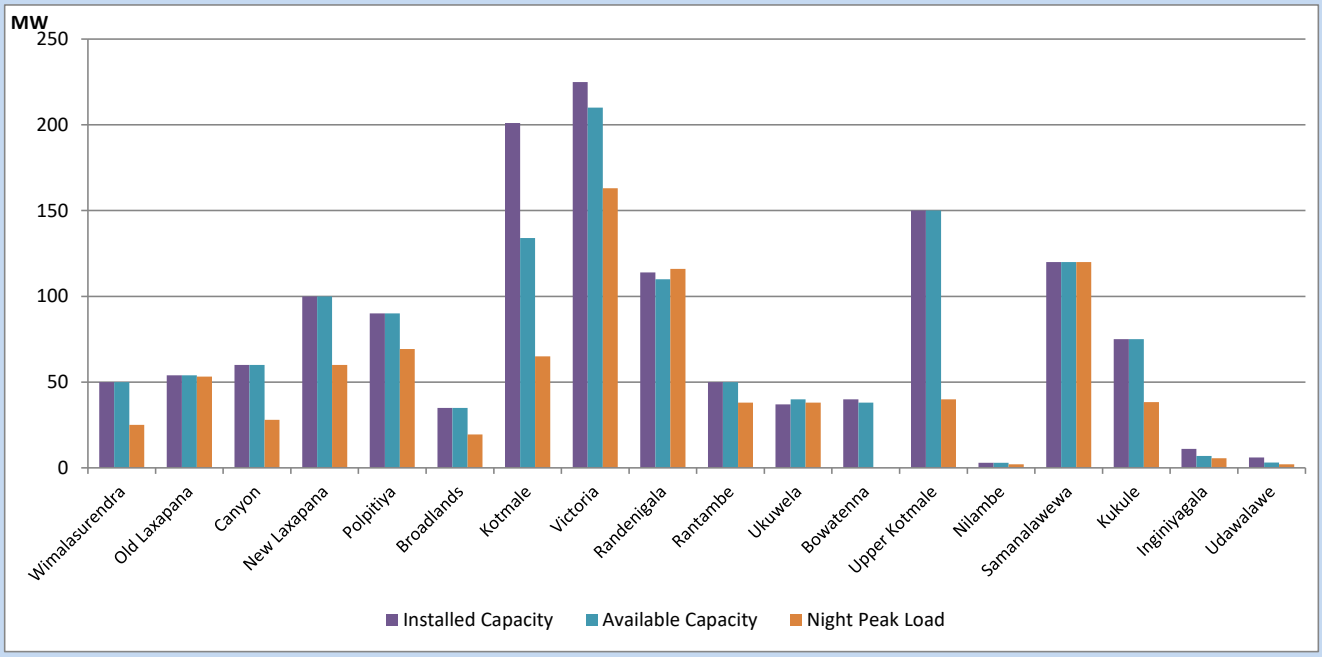


Available Generation is estimated based on plant availability at 6.00am on May 30, 2023

Broadlands power plant is operating in the Commissioning Stage

Major Hydro Plant Loading at Night Peak

May 29, 2023



Note- Plant avilability is recorded at 6.00 am on May 30, 2023

Broadlands power plant is operating in the Commissioning Stage

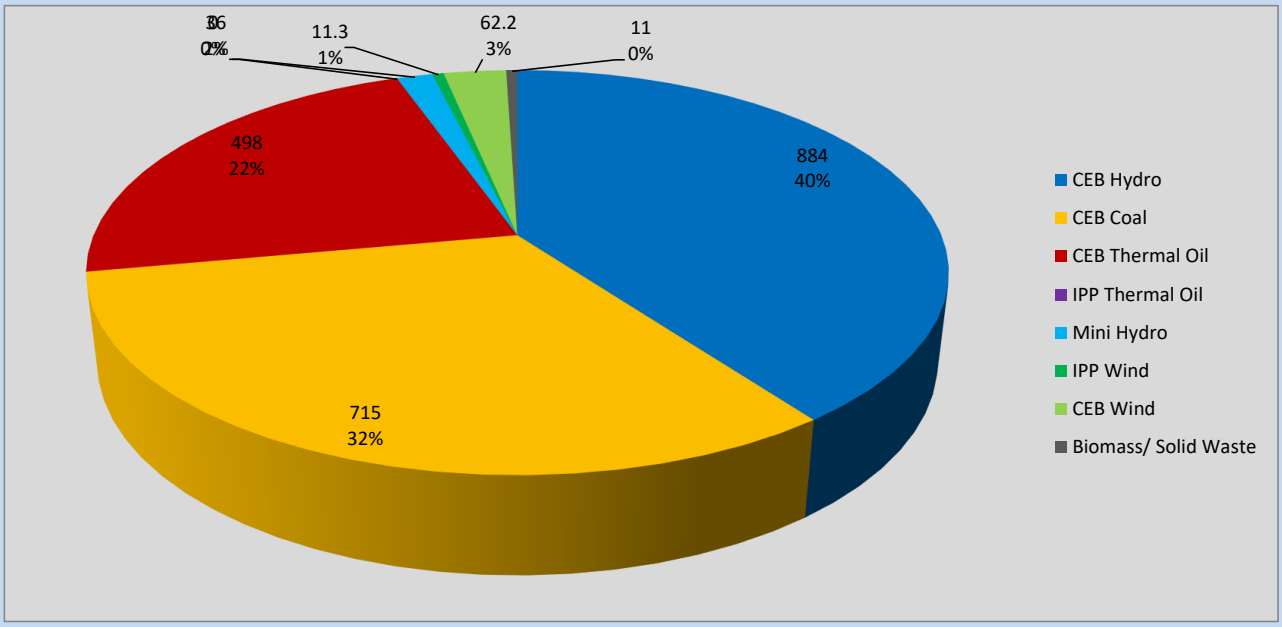
Summary of Major Plant performance

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	25	527
Old Laxapana	54	54	53	1,191
Canyon	60	60	28	378
New Laxapana	100	100	60	1,347
Polpitiya	90	90	69	1,392
Broadlands	35	35	19	298
Kotmale	201	134	65	740
Victoria	225	210	163	1,414
Randenigala	114	110	116	1,173
Rantambe	50	50	38	486
Ukuwela	37	40	38	408
Bowatenna	40	38	0	6
Upper Kotmale	150	150	40	424
Nilambe	3	3	2	6
Samanalawewa	120	120	120	1,902
Kukule	75	75	38	442
Inginiyagala	11	7	6	129
Udawalawe	6	3	2	49
Puttalam Coal I	270	197	199	4,691
Puttalam Coal II	270	270	269	6,462
Puttalam Coal III	270	245	247	5,935
KPS Small GTs	64	32	35	388
KPS GT 7	115	115	109	2,013
KCCP	161	158	148	3,606
Sapugaskanda A	70	32	32	710
Sapugaskanda B	70	63	62	1,420
Uthura Janani	26	16	24	472
Barge CEB	60	60	60	1,440
CEB-Hambantota	30	0	17	358
CEB-Mathugama	20	11	11	206
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,483	2,528	2,216	43,468

Plant availability is the availability recorded at 6 am on May 30, 2023

Contribution to the Night Peak in MW

May 29, 2023

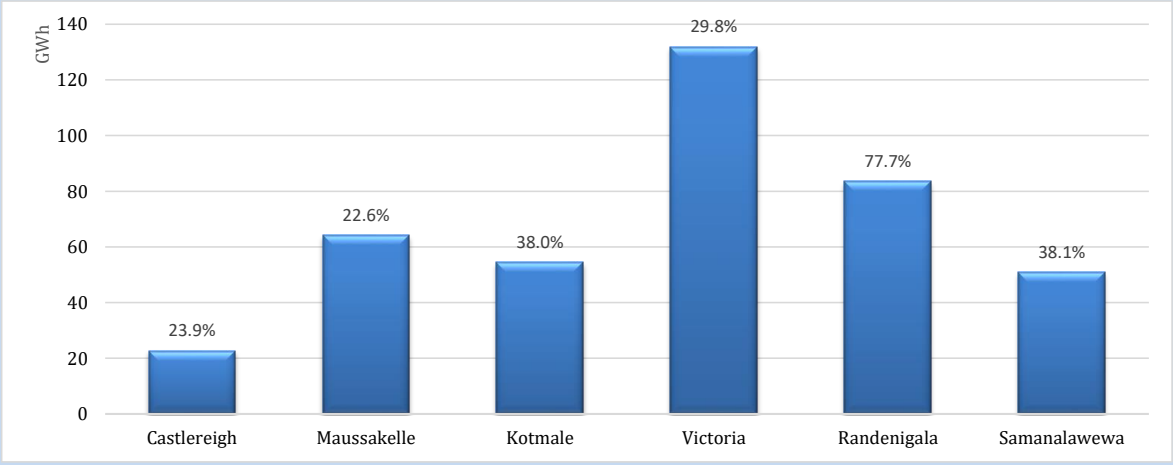


Night Peak*	2,217	MW
Day Peak Maximum Demand	2,149	MW
Day Peak Minimum Demand	1,894	MW
Off Peak Minimum Demand	1,317	MW

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

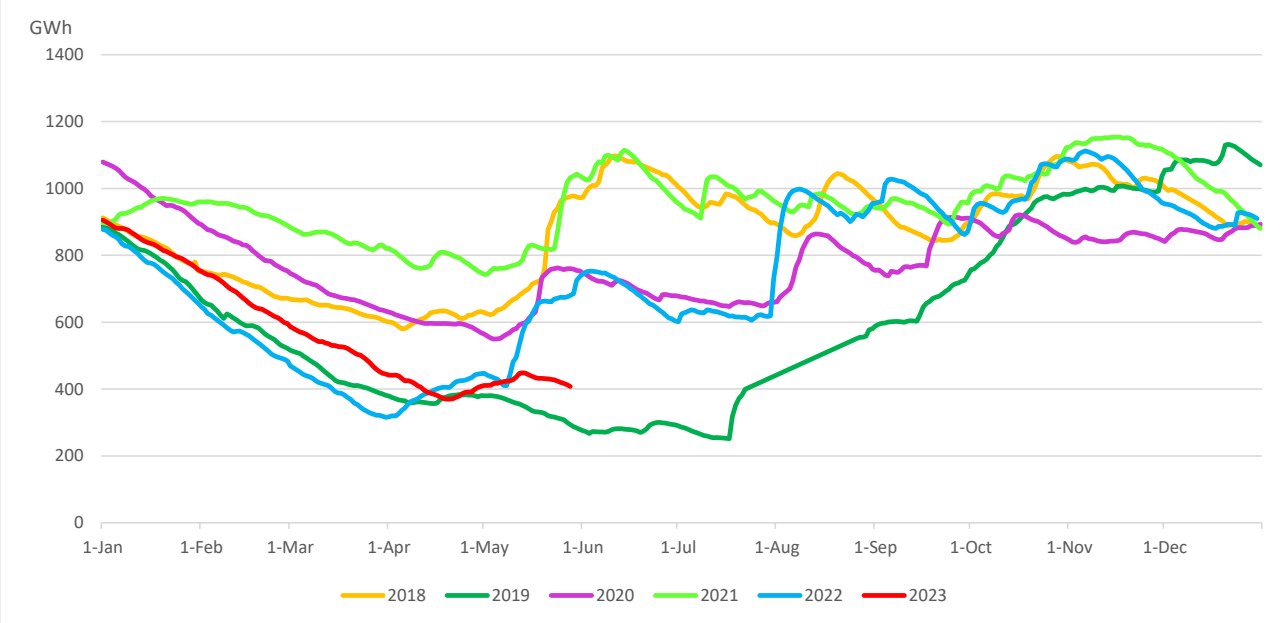
Reservoir Levels -

as at 06.00 Hr on May 30, 2023

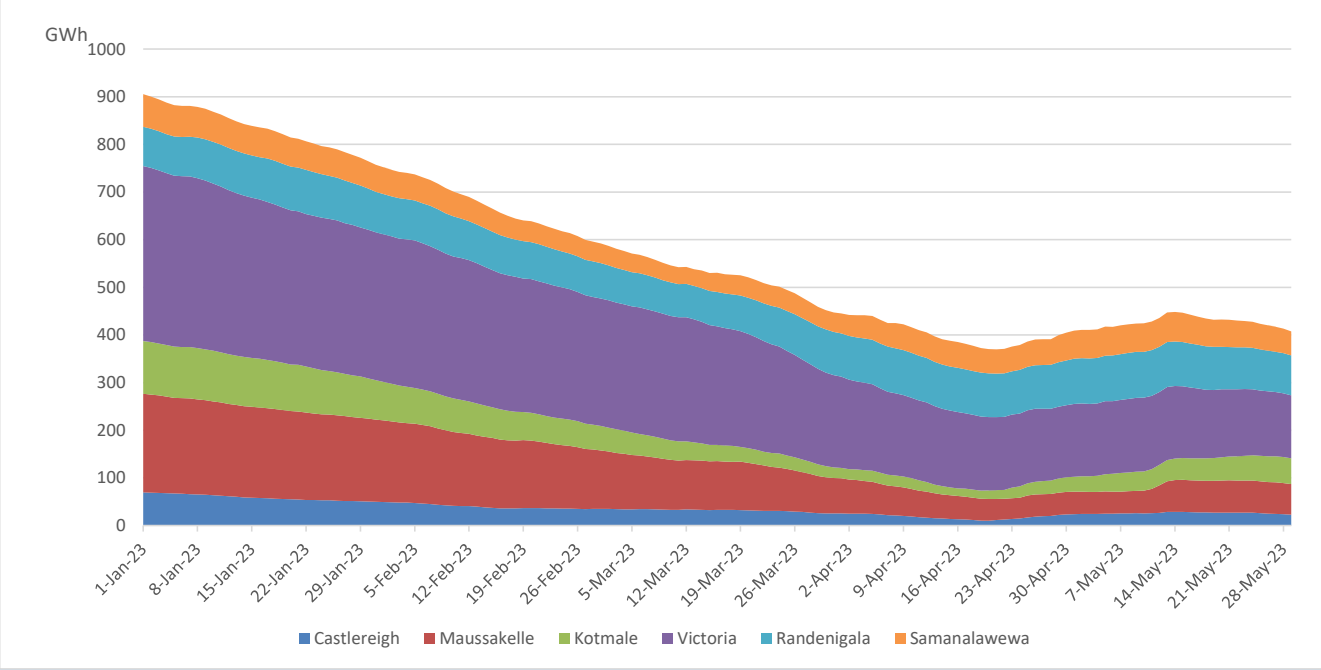


Total Reservoir Level	407.6 GWh
% of Total capacity	33.8%

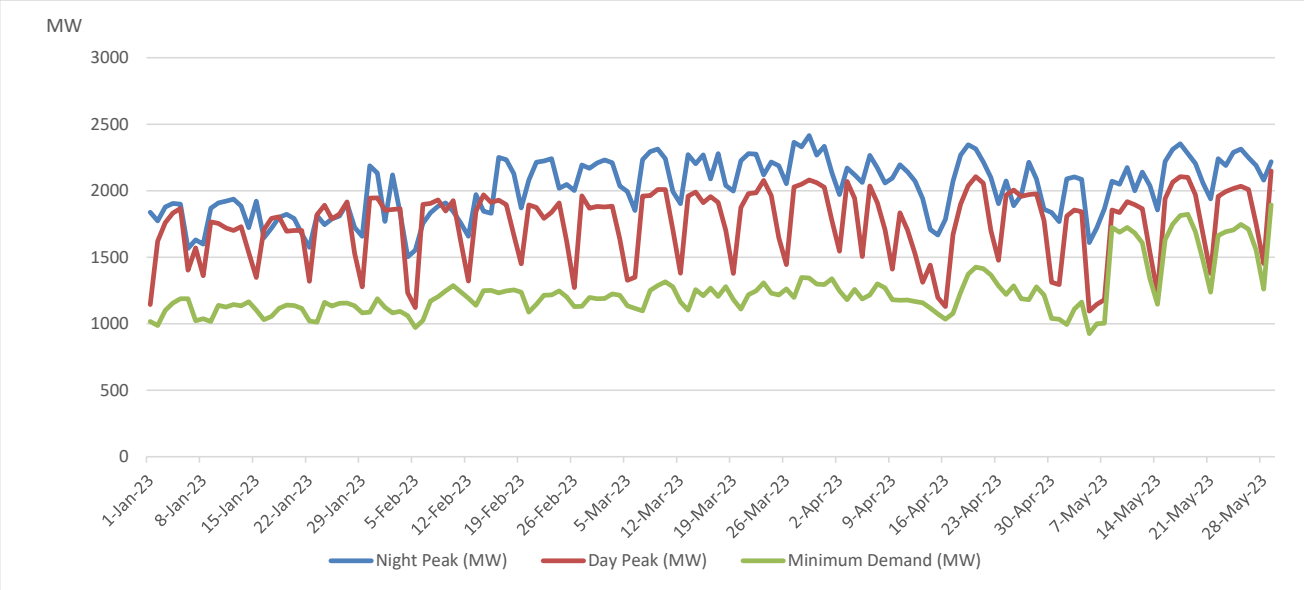
Comparison of Total Reservoir Storage Levels with Past Years



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



Variation of Demand during the current year



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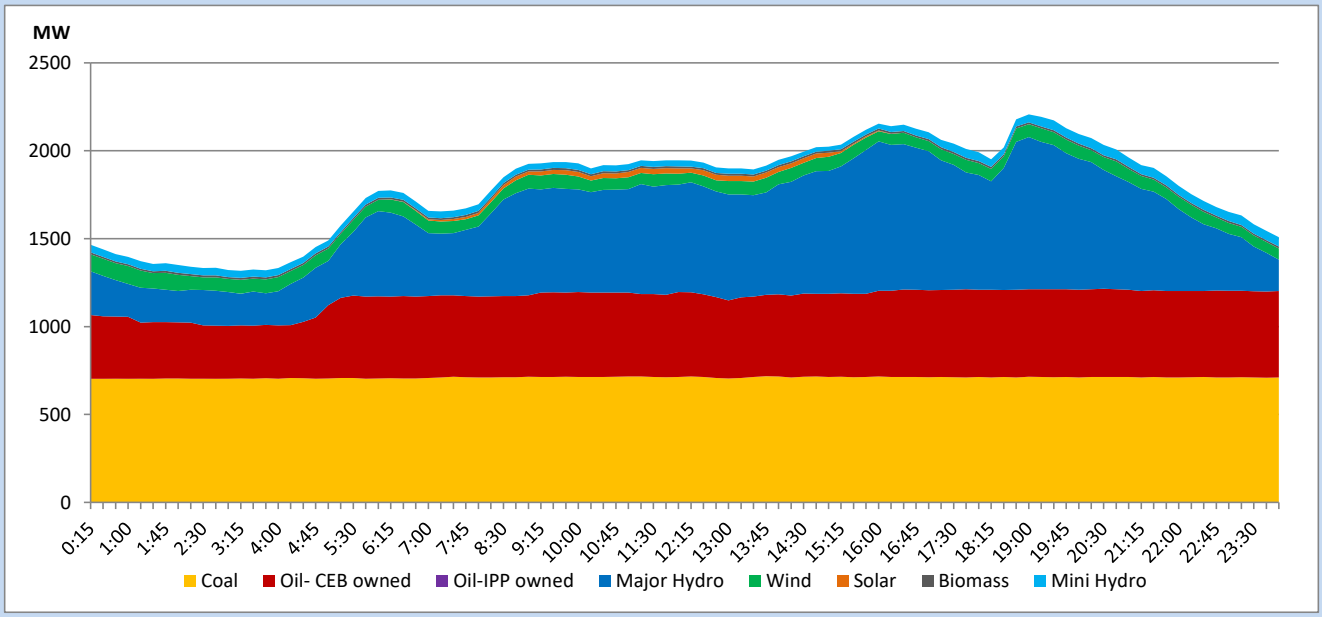
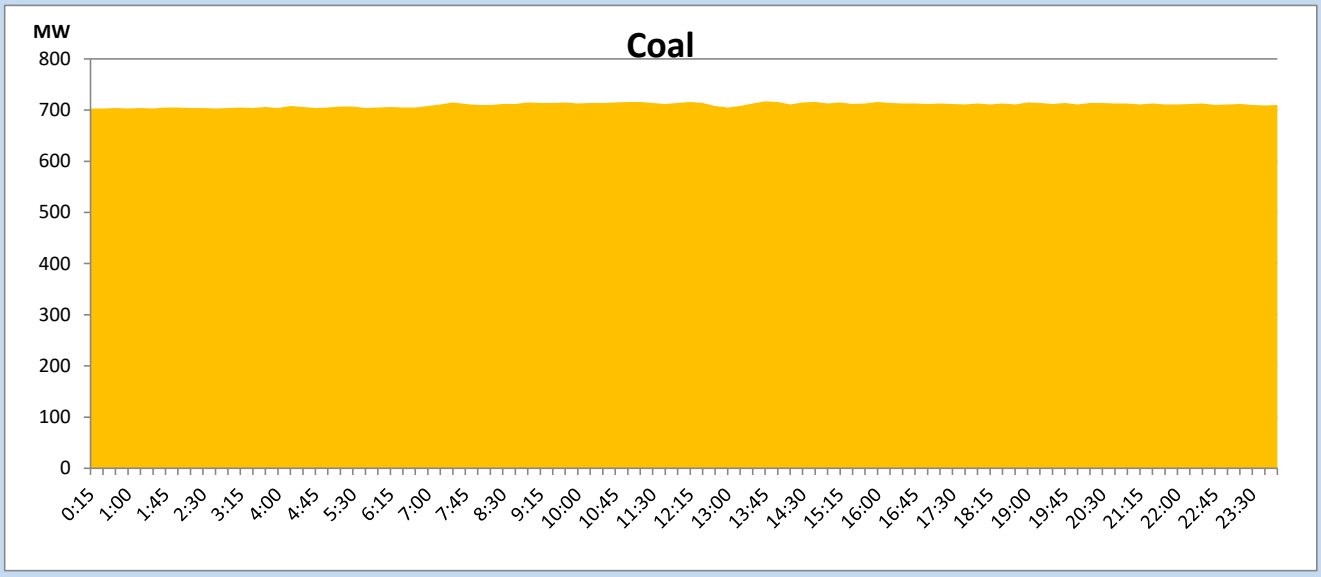
Daily Load Curve

May 29, 2023

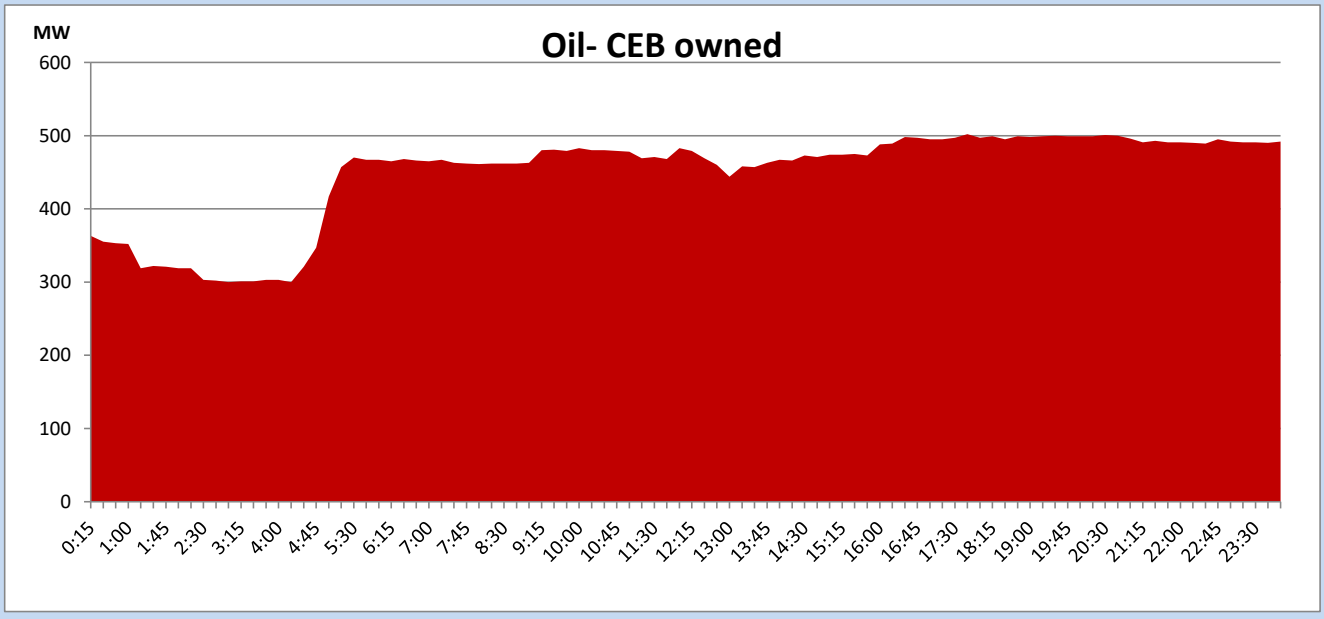
Solar and wind data is based on Telemetered Power Stations only



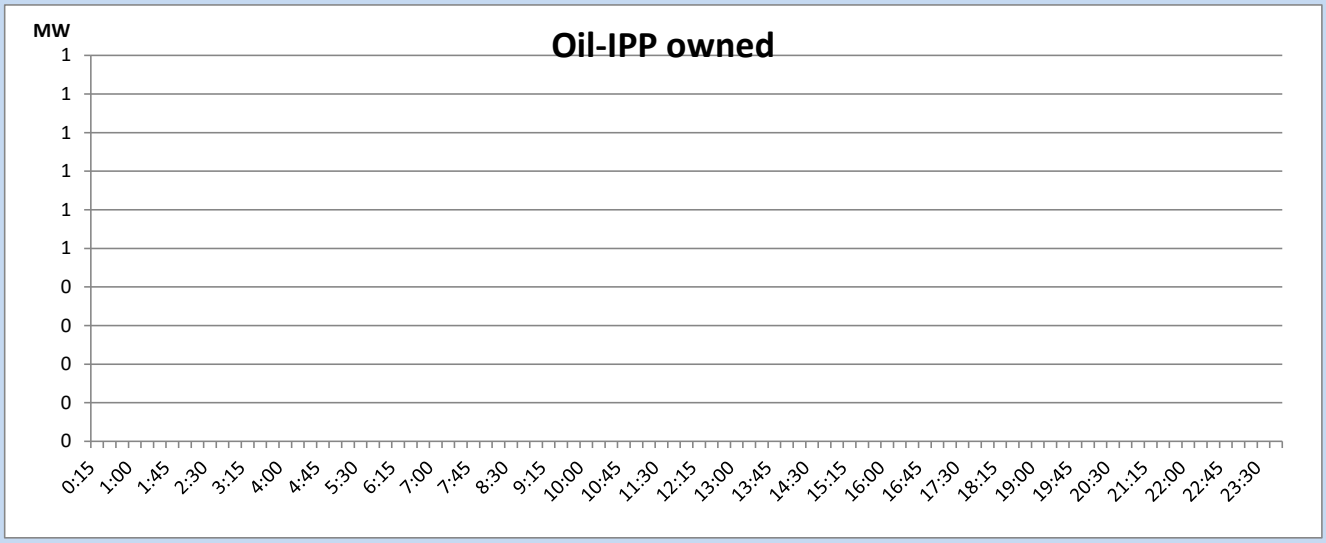
Coal Generation during May 29, 2023



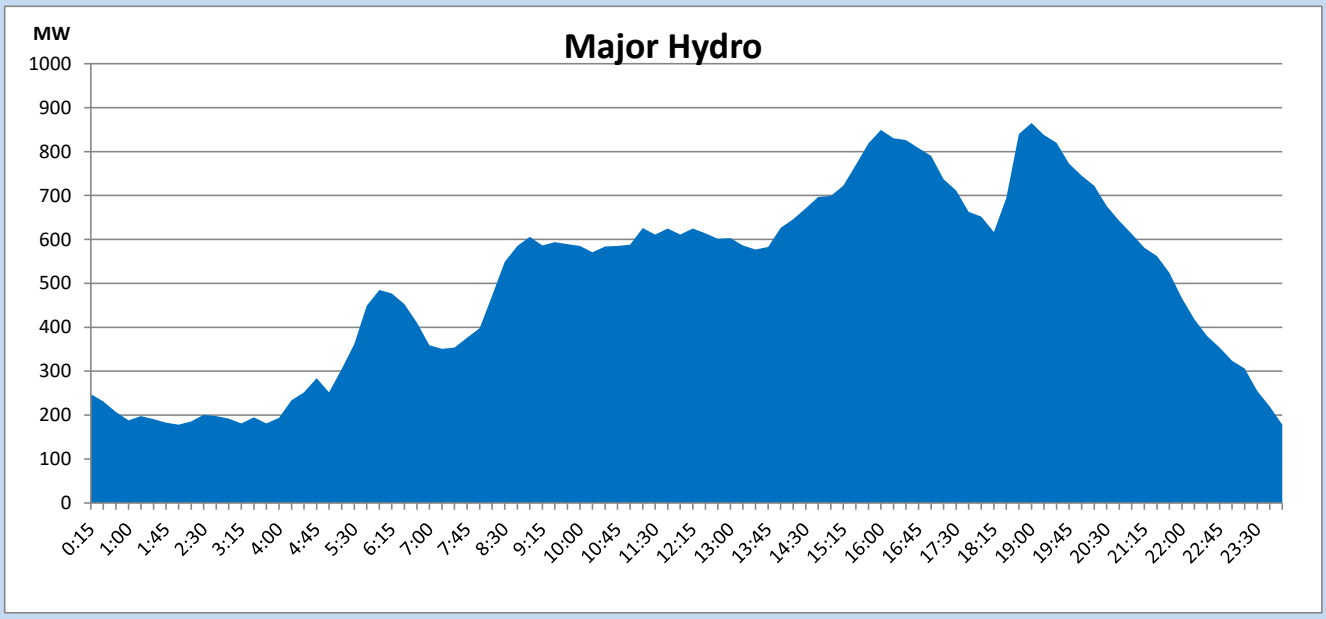
CEB Oil Plant Generation during May 29, 2023



IPP Oil Plant Generation during May 29, 2023

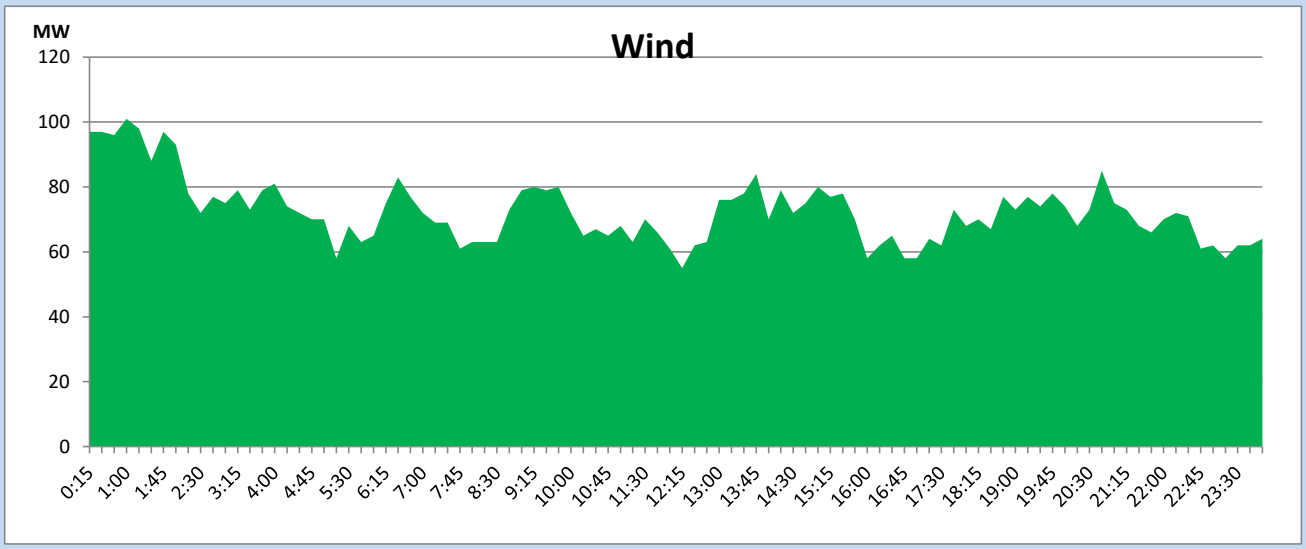


Major Hydro Generation during May 29, 2023



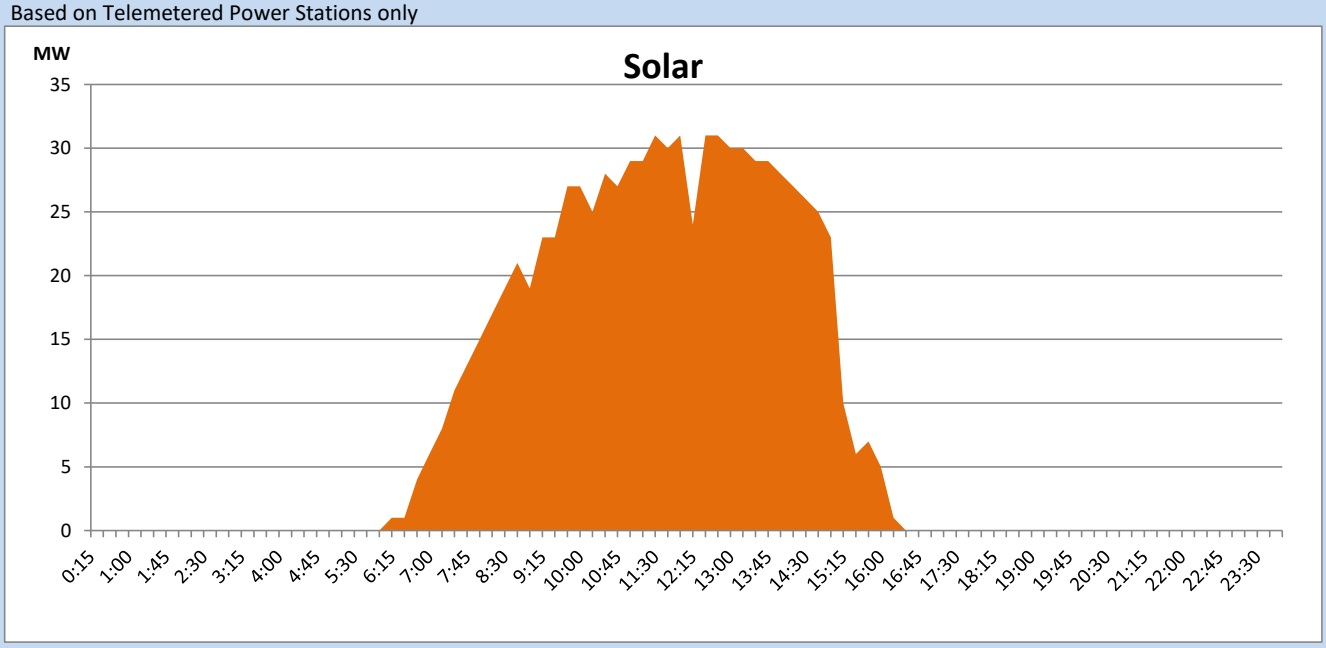
Wind Generation during May 29, 2023

Based on Telemetered Power Stations only

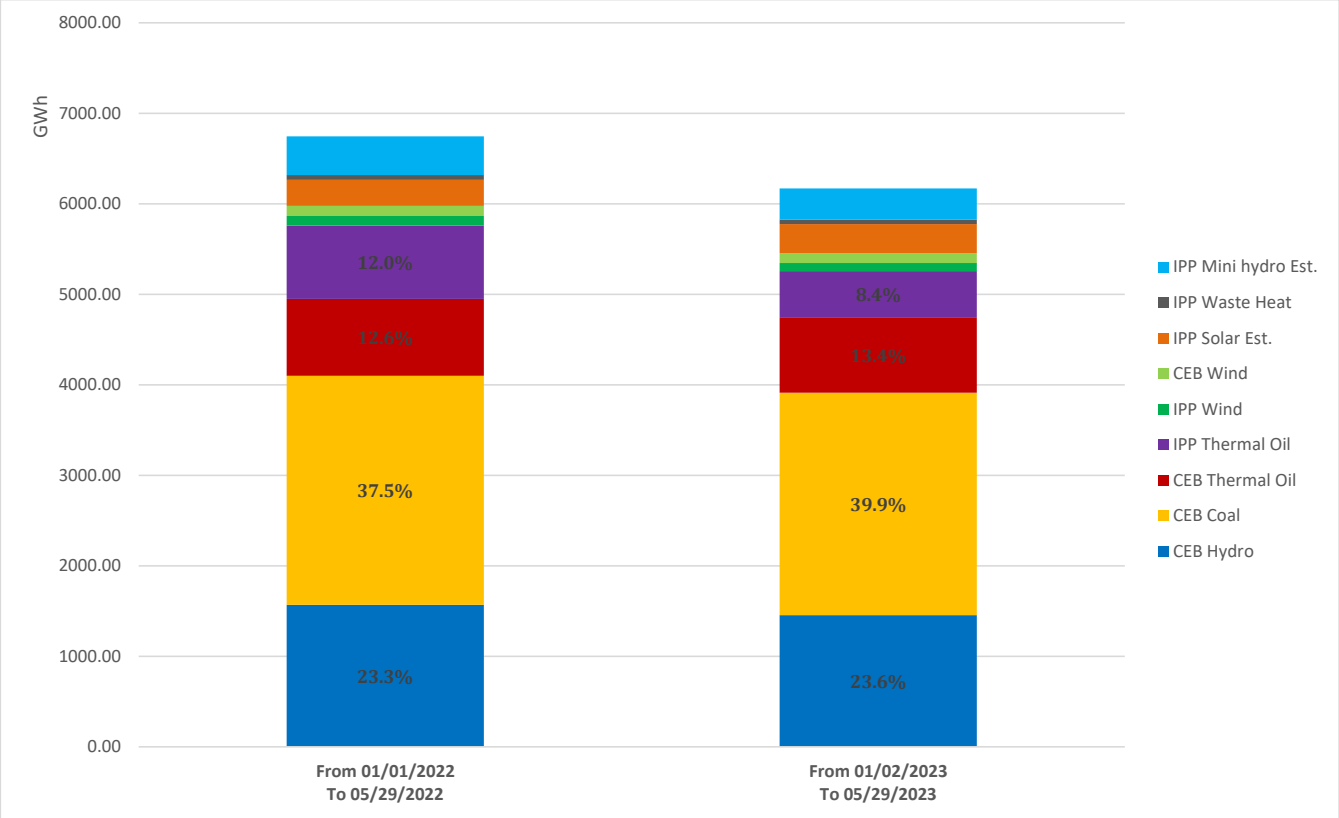


Solar Generation during May 29, 2023

Based on Telemetered Power Stations only



Cumulative Dispatch Comparison with Last Year



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

Thermal Plant Fuel types

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 May 29, 2023

1) KPS GT-02 made unavailable from 11:00hrs due to high exhaust temperature and KPS GT-02 resumed generation at 16:04hrs.
2) N'Anuradhapura - Habarana 132kV cct tripped from both ends at 13:11hrs due to the operation of Distance protection. At the same time, N'Anuradhapura - N'Habarana 220kV cct 01 tripped and A/R from N'Habarana end due to the operation of DEF protection. N'Anuradhapura - Habarana 132kV cct was normalized at 13:40hrs.
3) Habarana - Naula 132kV cct tripped at 18:04hrs from both ends due to the operation of the distance protection. At the same time, Habarana - Ukuwela 132kV tripped & A/R from Habarana end and tripped from Ukuwela end due to the operation of the distance protection. Resulting Naula, Ukuwel (BB-01 Side), Ragala and Pallakele GSSs to be dead. All affected GSSs normalized at 18:26hrs and all affected feeders normalized at 18:44hrs via Habarana - Ukuwela 132kV cct which was normalized at 18:23hrs. Habarana - Naula 132kV cct normalized at 18:47hrs.
4) N' Anuradhapura - Puttalam 132kV cct 01 tripped & A/R at 19:29hrs from both ends. Subsequently, the same cct tripped from both ends at 19:31hrs due to the operation of Differential protection. N'Anuradhapura - Puttalam 132kV cct 01 was normalized at 20:01hrs.