

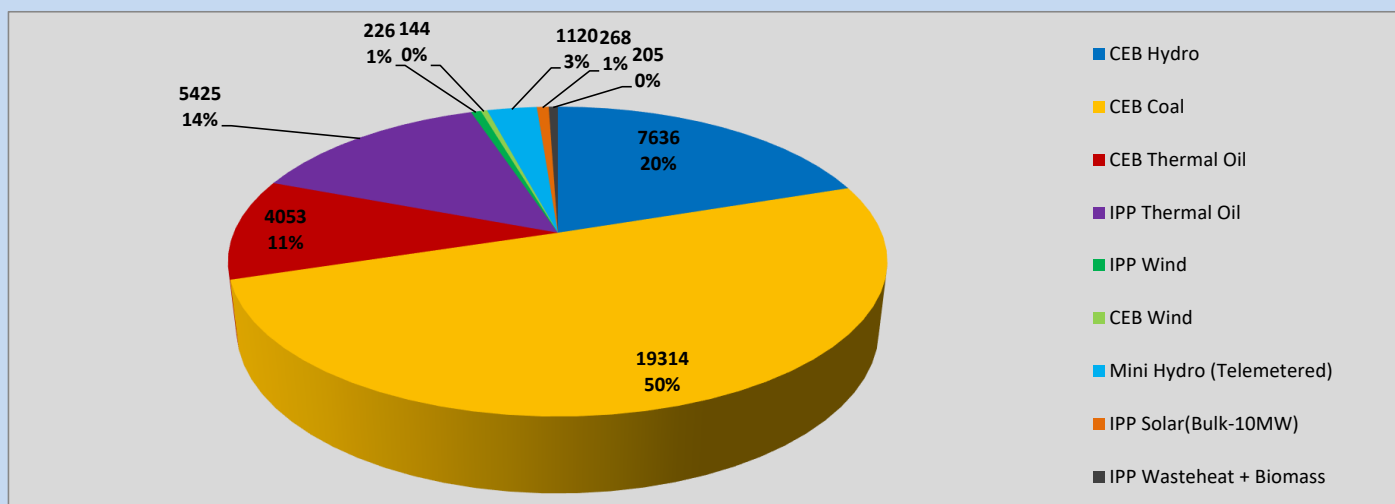
# Generation and Reservoirs Statistics

May 4, 2023



PUBLIC UTILITIES COMMISSION OF SRI LANKA

## Daily Generation Mix in MWh



Total Generation (Excluding estimated figures) =

38,391 MWh

### Estimated figures of CEB generation report

Estimated unserved energy = 0.00 GWh

Estimated Mini Hydro (Non telemetered) = 2870 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

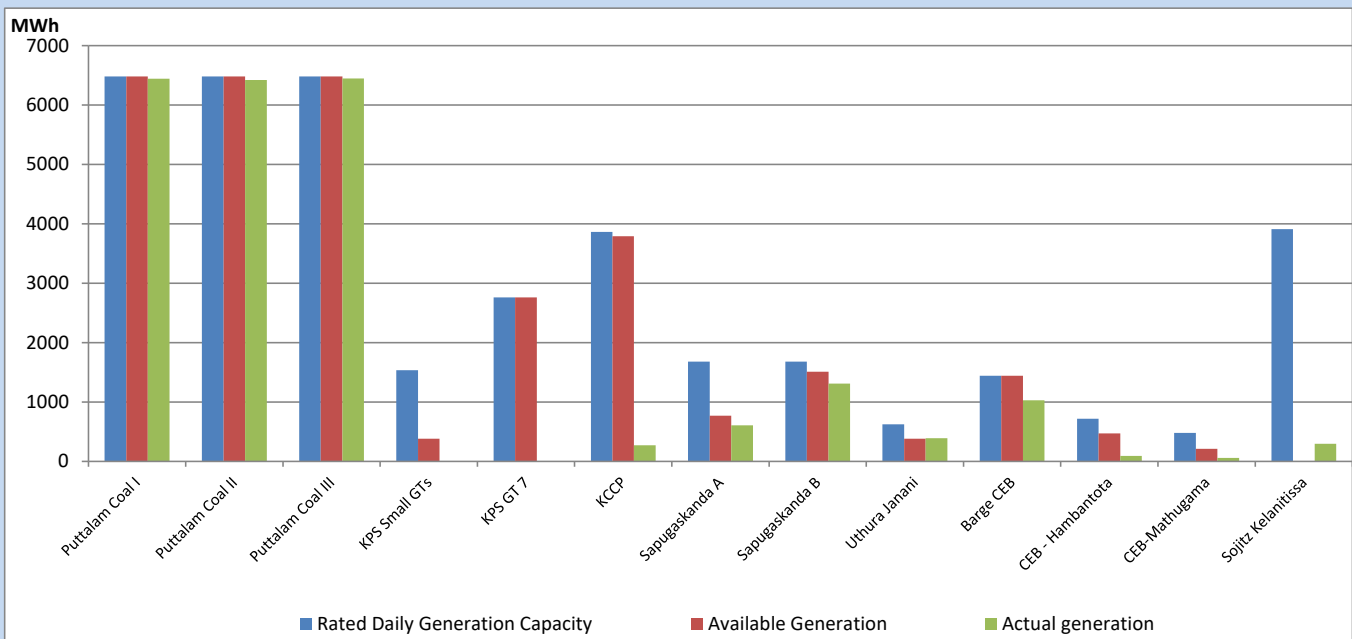
Category	Dispatch (GWh)	
CEB Hydro	29	19.57%
CEB Coal	76	52.02%
CEB Thermal Oil	19	12.81%
IPP Thermal	14	9.25%
SPP Wind	1	0.98%
CEB Wind	1	0.95%
Mini Hydro (Telemetered)	4	2.99%
IPP Solar(Bulk-10MW)	1	0.74%
IPP Wasteheat + BMP	1	0.70%
<b>Total</b>	<b>146</b>	

### For Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,230	26.17%
CEB Coal	2,063	43.89%
CEB Thermal Oil	674	14.34%
IPP Thermal	431	9.17%
SPP Wind	59	1.26%
CEB Wind	71	1.52%
Mini Hydro (Telemetered)	100	2.12%
IPP Solar(Bulk-10MW)	36	0.76%
IPP Wasteheat	36	0.76%
<b>Total</b>	<b>4,700</b>	

## CEB owned Thermal Plant Dispatch

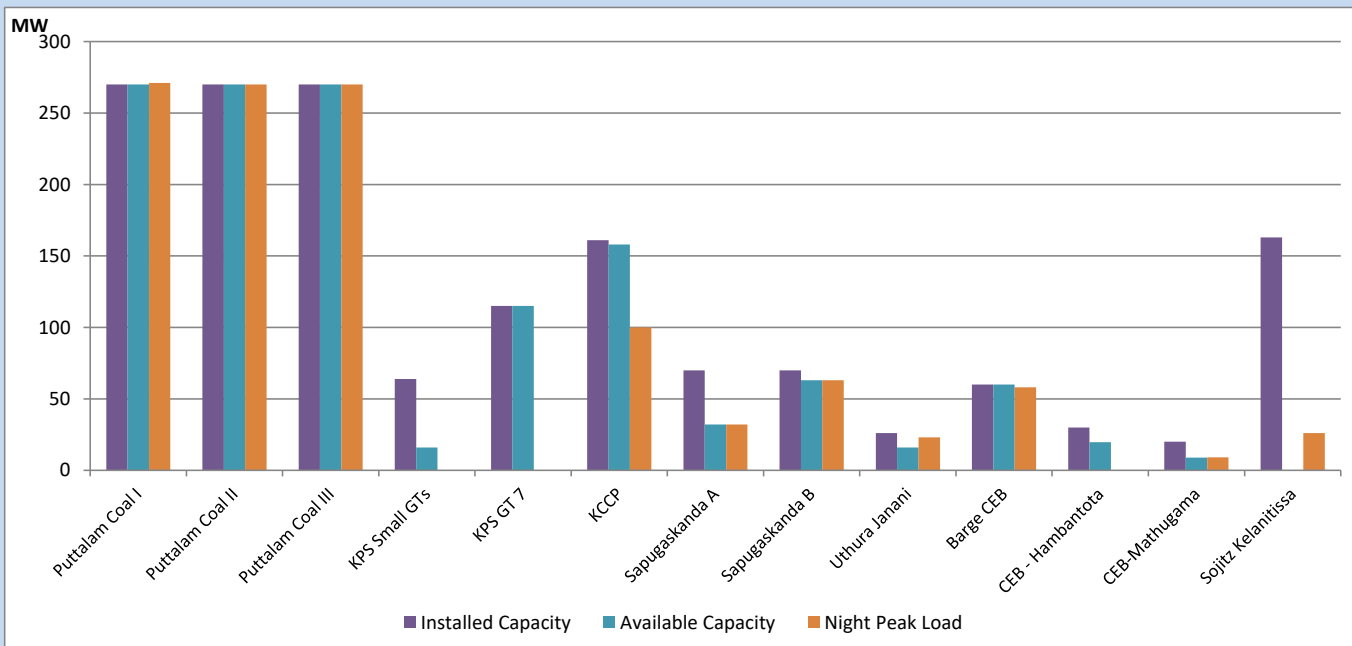
May 4, 2023



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

May 5, 2023

## CEB owned Thermal Plant Loading at the Night Peak



**Note-**

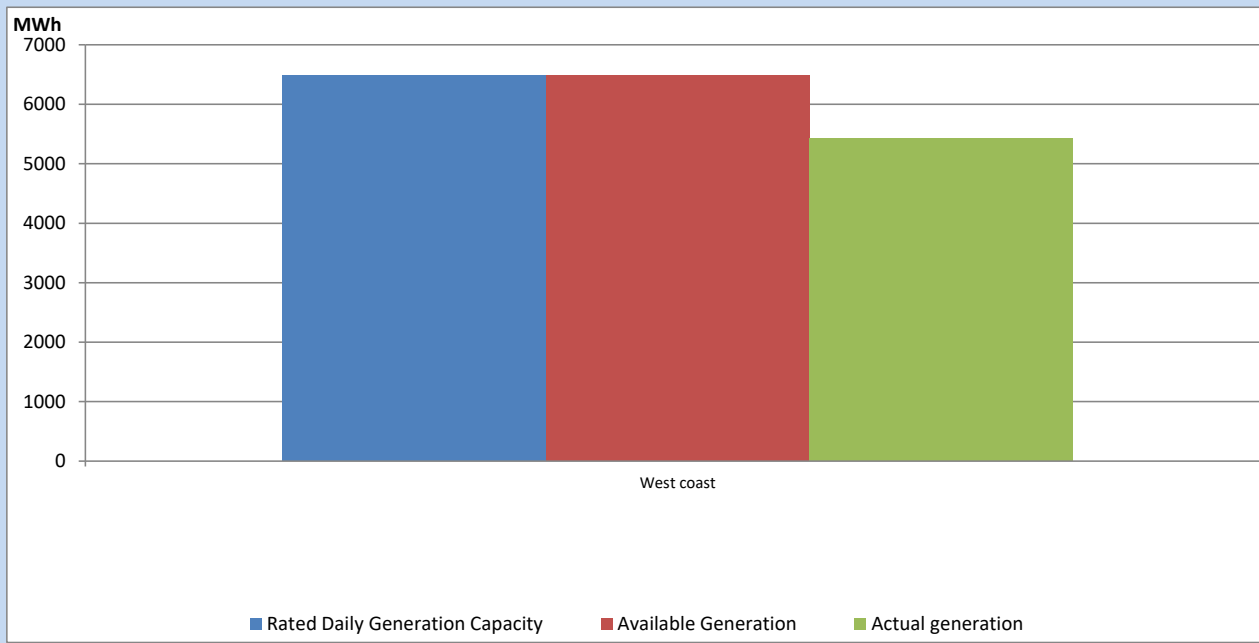
Plant availability is recorded at 6.00 am on

May 5, 2023

Sojitz Kelanitissa Plant is under Testing & Commissioning following to plant transfer procedure to CEB

## IPP owned Thermal Plant Dispatch

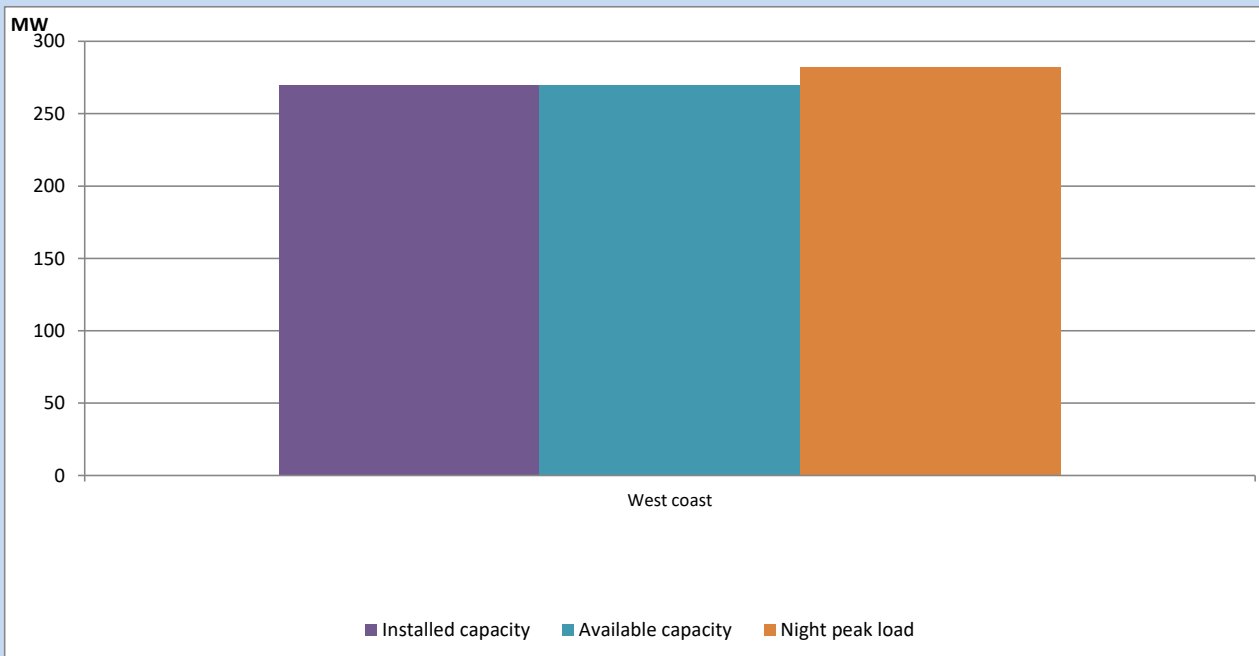
May 4, 2023



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

May 5, 2023

## IPP owned Thermal Plant Loading at the Night Peak

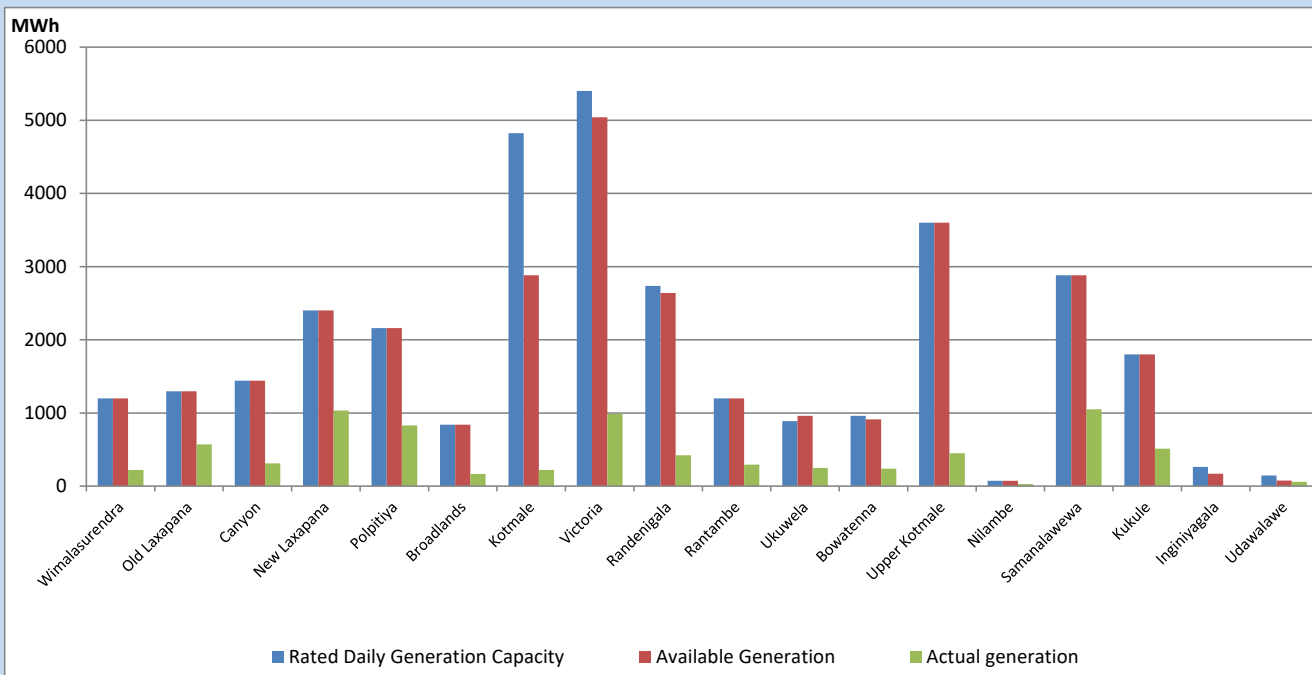


Note- Plant availability is recorded at 6.00 am on

May 5, 2023

## Major Hydro Plant Dispatch

May 4, 2023

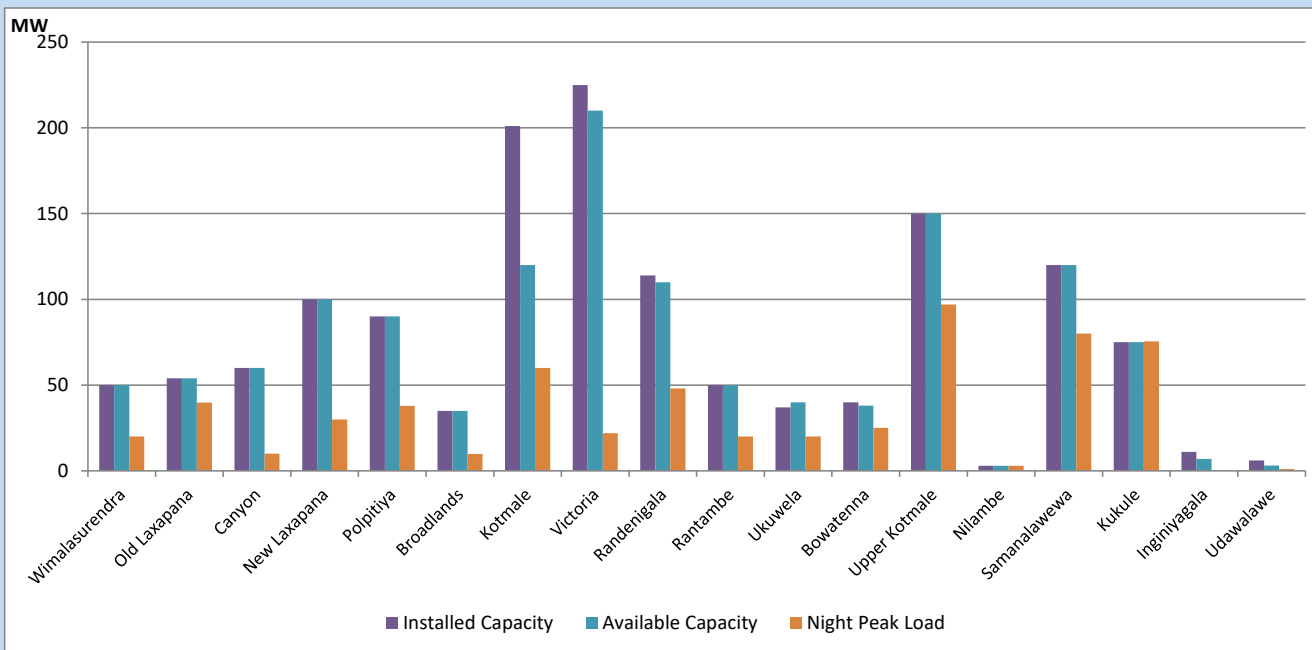


Available Generation is estimated based on plant availability at 6.00am on  
Broadlands power plant is operating in the Commissioning Stage

May 5, 2023

## Major Hydro Plant Loading at Night Peak

May 4, 2023



Note- Plant availability is recorded at 6.00 am on  
Broadlands power plant is operating in the Commissioning Stage

May 5, 2023

## Summary of Major Plant performance

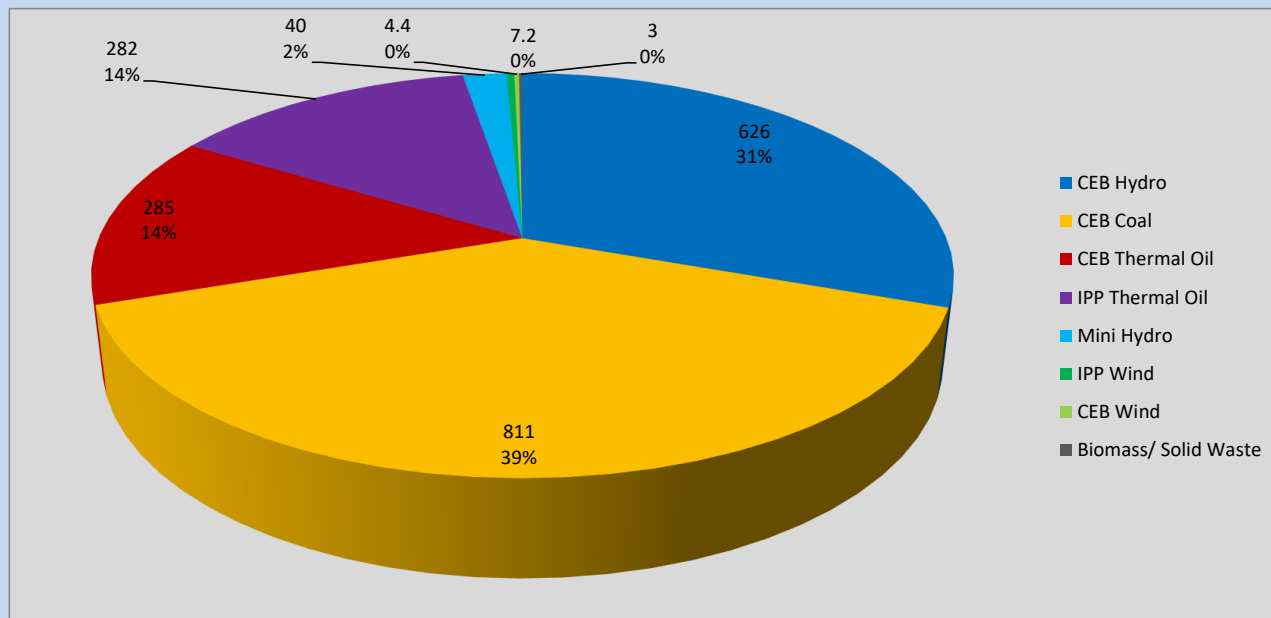
Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	20	221
Old Laxapana	54	54	40	569
Canyon	60	60	10	310
New Laxapana	100	100	30	1,032
Polpitiya	90	90	38	830
Broadlands	35	35	10	165
Kotmale	201	120	60	220
Victoria	225	210	22	988
Randenigala	114	110	48	422
Rantambe	50	50	20	295
Ukuwela	37	40	20	248
Bowatenna	40	38	25	238
Upper Kotmale	150	150	97	449
Nilambe	3	3	3	26
Samanalawewa	120	120	80	1,052
Kukule	75	75	76	511
Inginiyagala	11	7	0	0
Udawalawe	6	3	1	60
Puttalam Coal I	270	270	271	6,443
Puttalam Coal II	270	270	270	6,423
Puttalam Coal III	270	270	270	6,448
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	158	100	271
Sapugaskanda A	70	32	32	607
Sapugaskanda B	70	63	63	1,308
Uthura Janani	26	16	23	392
Barge CEB	60	60	58	1,029
CEB-Hambantota	30	20	0	93
CEB-Mathugama	20	9	9	57
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
Sojitz Kelanitissa	163	0	26	296
West Coast	270	270	282	5,425
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
<b>Total</b>	<b>3,483</b>	<b>2,884</b>	<b>2,058</b>	<b>38,391</b>

Plant availability is the availability recorded at 6 am on

May 5, 2023

## Contribution to the Night Peak in MW

May 4, 2023

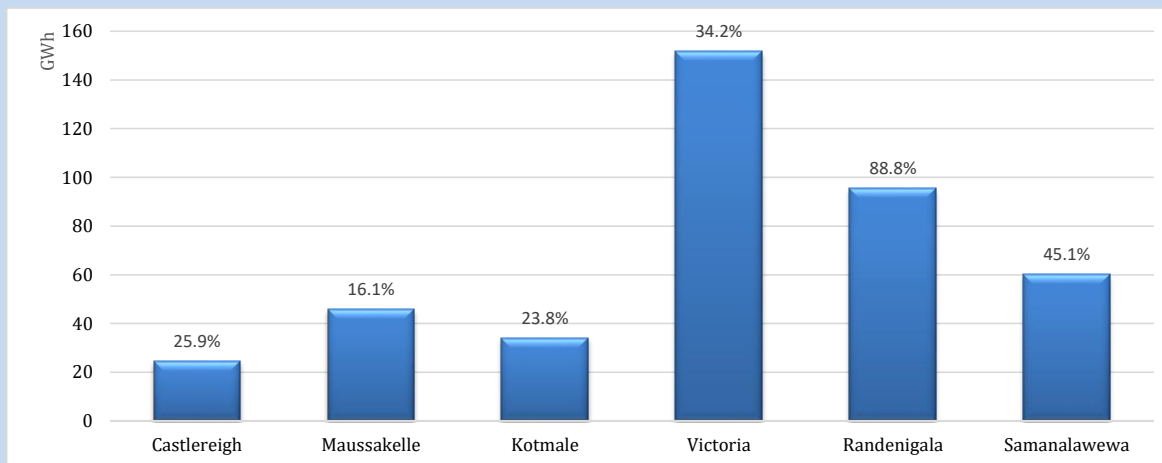


Night Peak*	2,085 MW
Day Peak	1,842 MW
Minimum Demand	1,163 MW

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

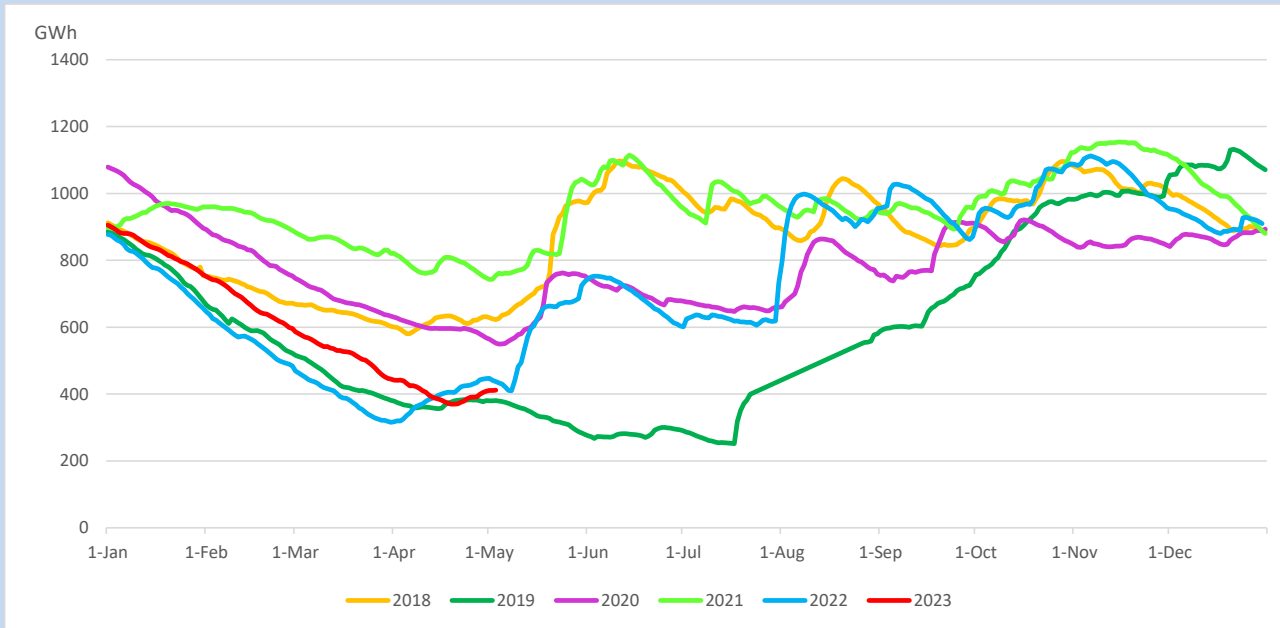
## Reservoir Levels -

as at 06.00 Hr on May 5, 2023

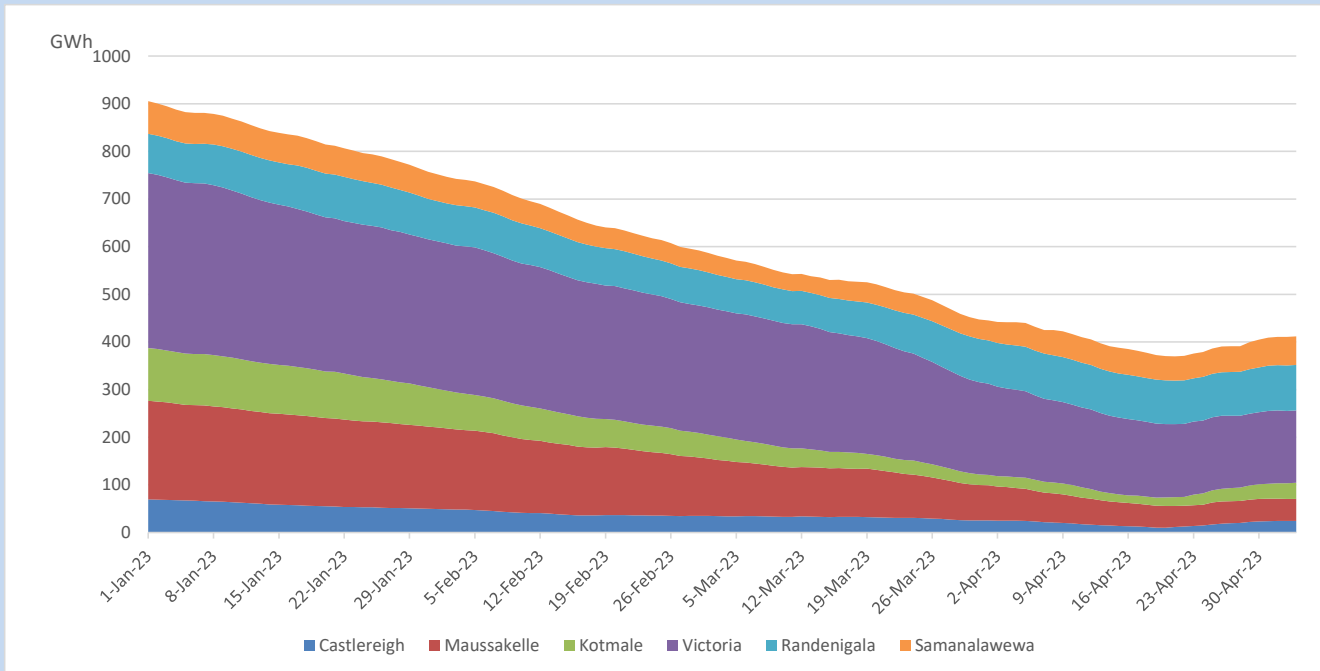


Total Reservoir Level	411.6 GWh
% of Total capacity	34.1%

## Comparison of Total Reservoir Storage Levels with Past Years

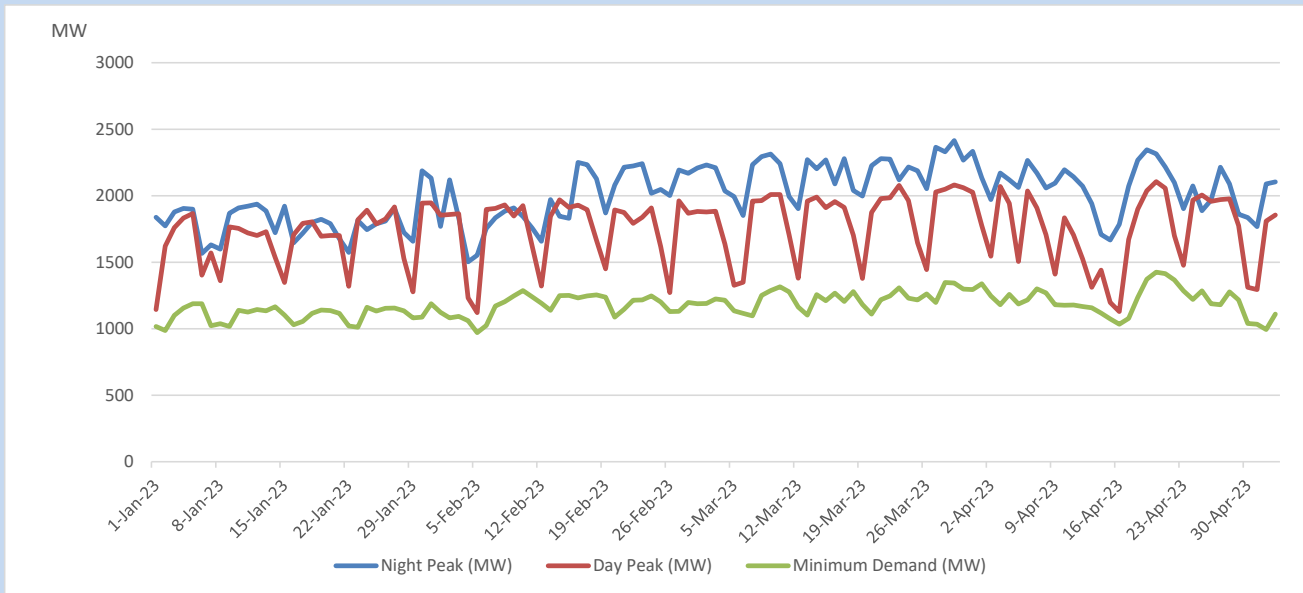


## Variation of Major Hydro Reservoir Levels in the current year (GWh)





## Variation of Demand during the current year

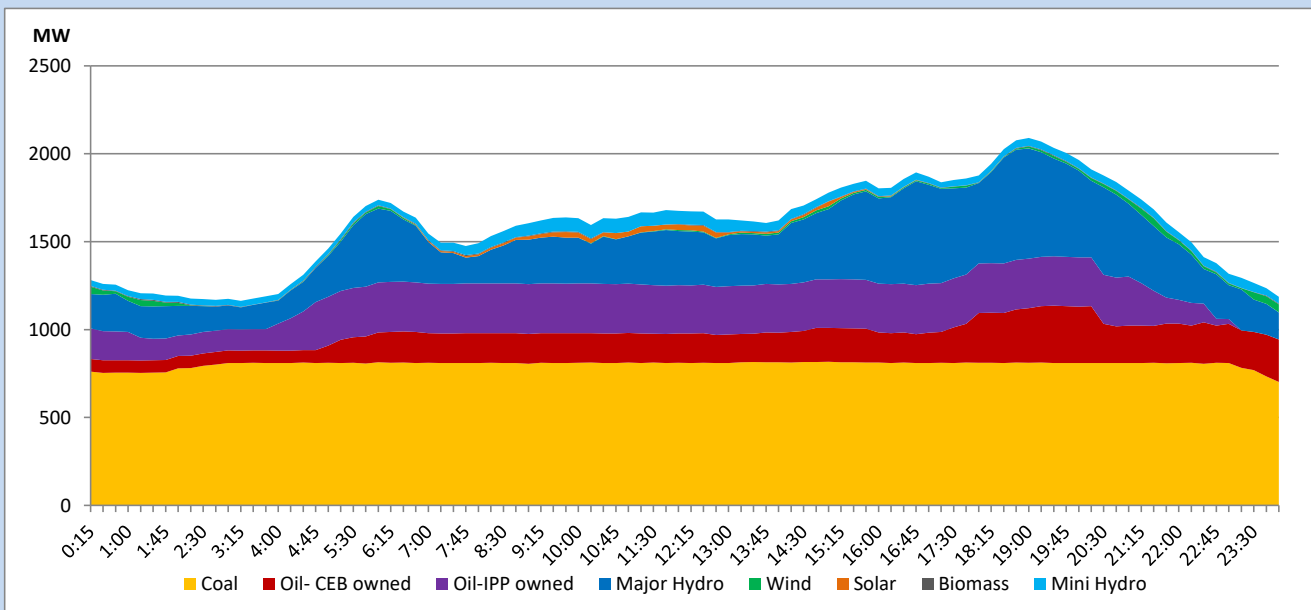


The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

## Daily Load Curve

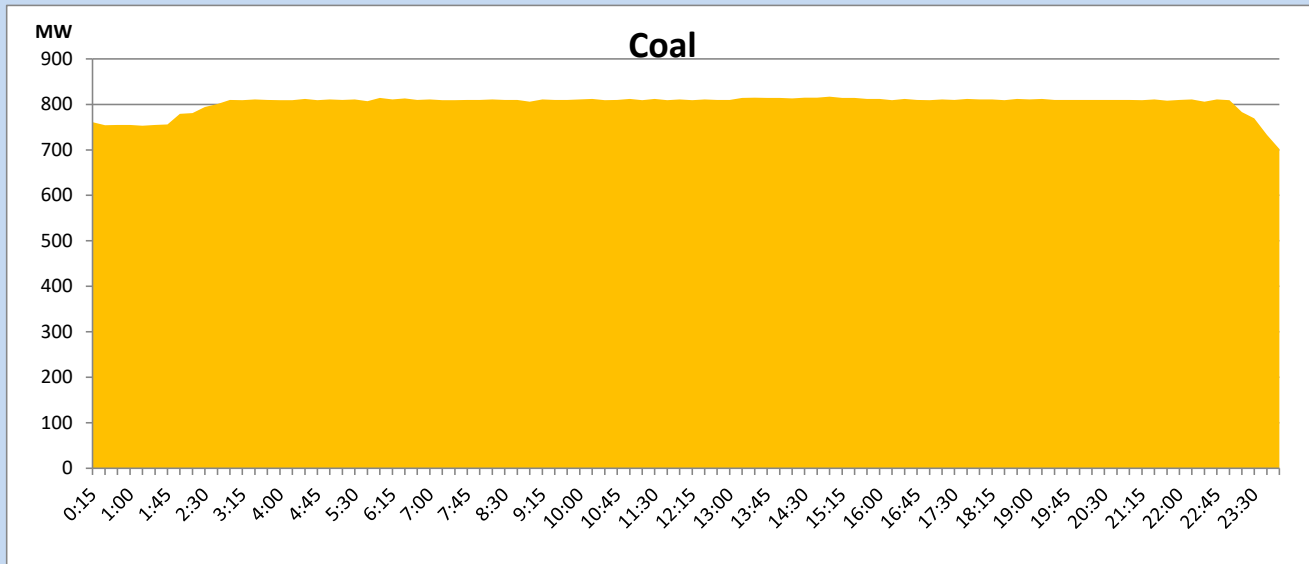
May 4, 2023

Solar and wind data is based on Telemetered Power Stations only



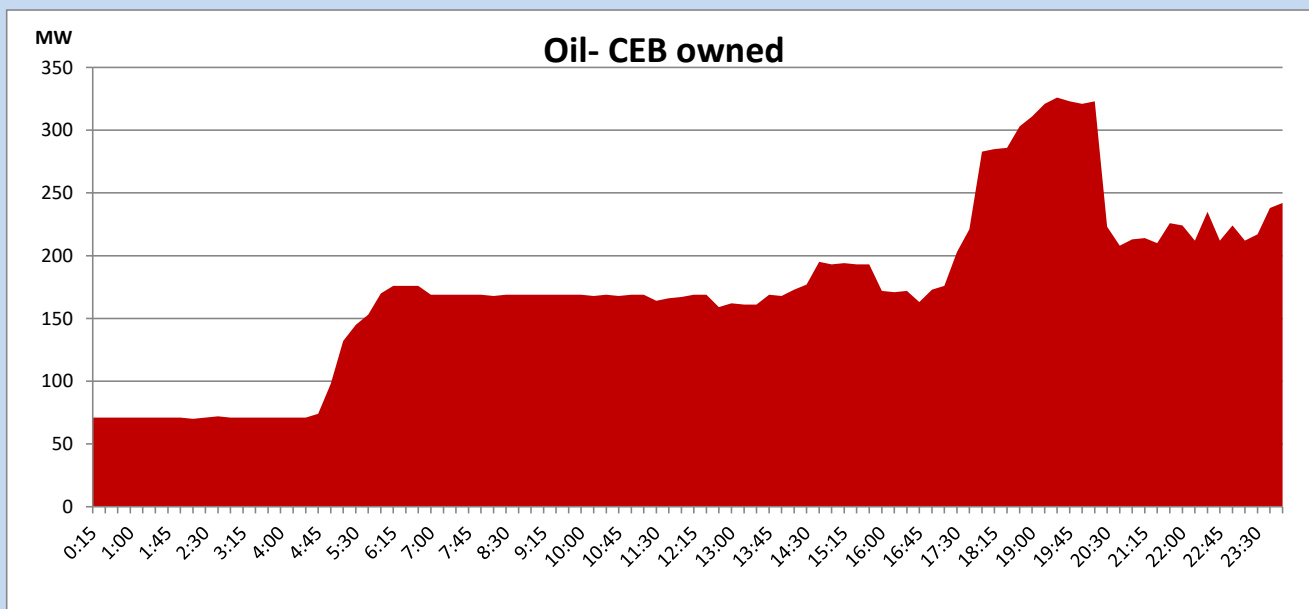
## Coal Generation during

May 4, 2023



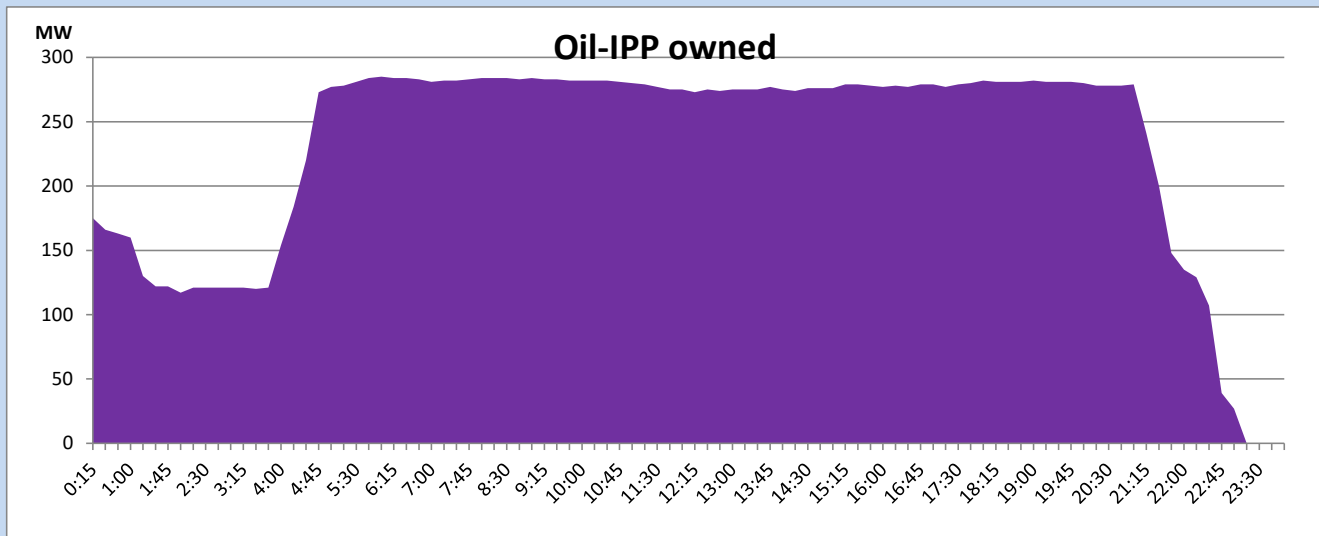
## CEB Oil Plant Generation during

May 4, 2023



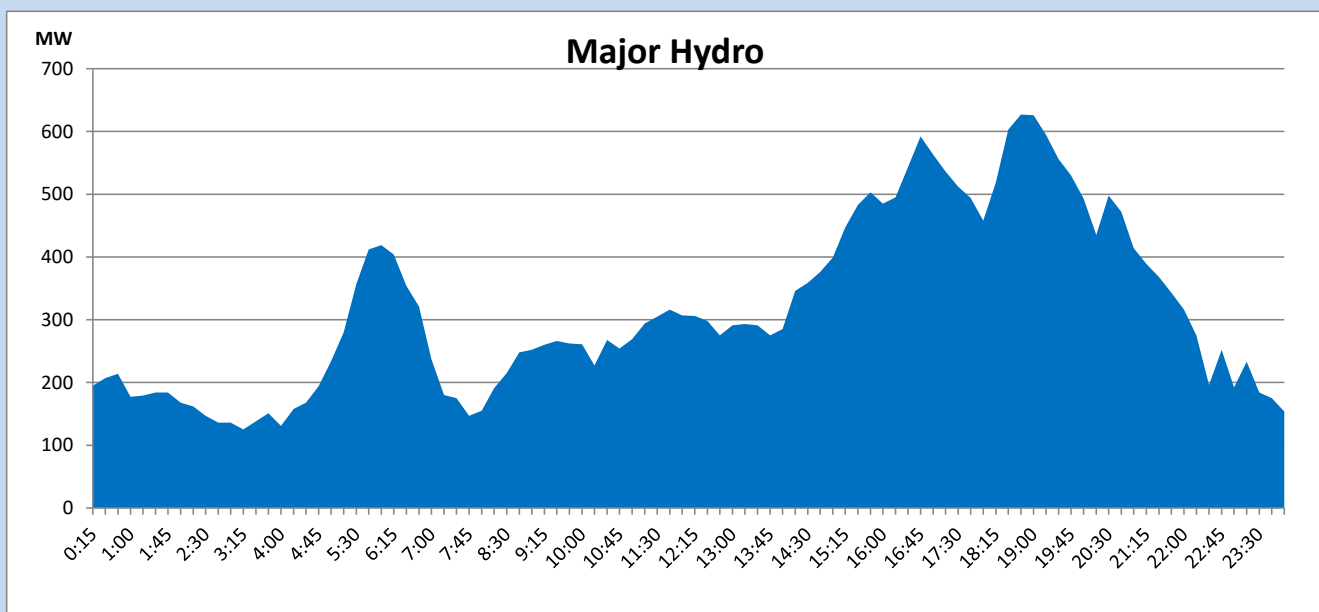
## IPP Oil Plant Generation during

May 4, 2023



## Major Hydro Generation during

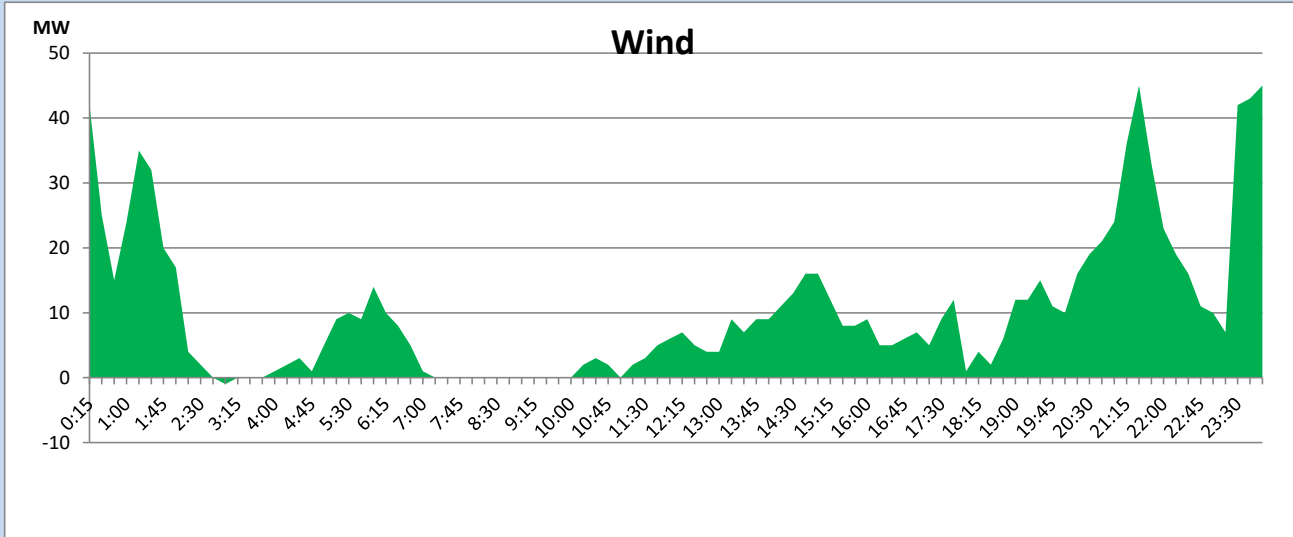
May 4, 2023



## Wind Generation during

May 4, 2023

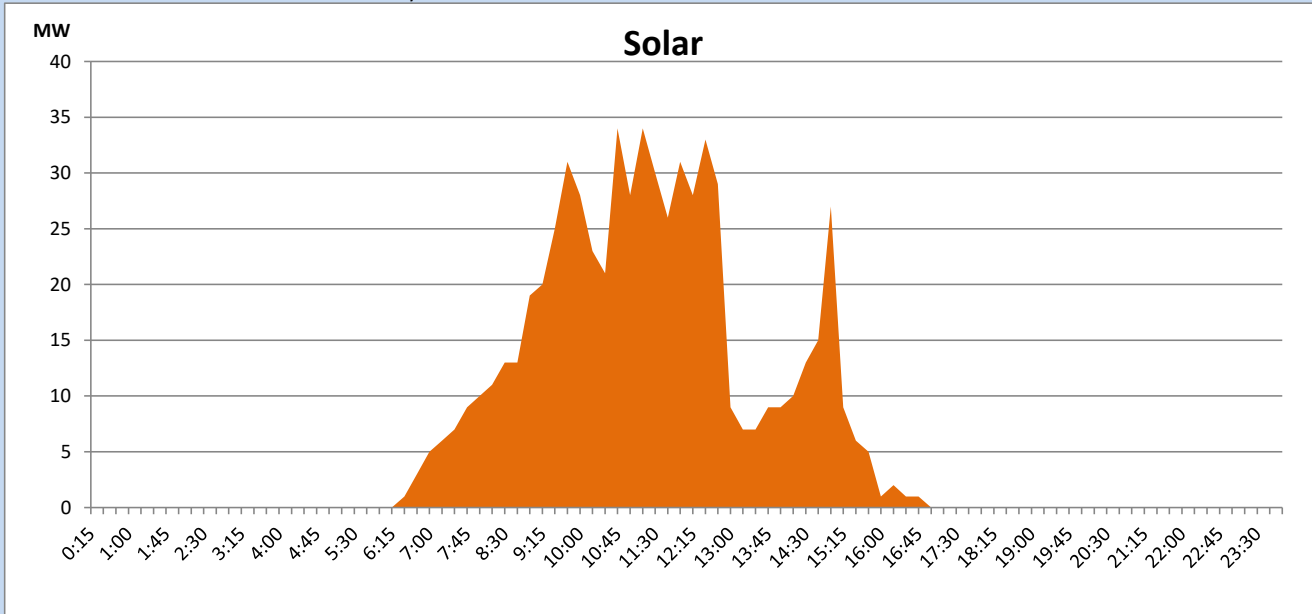
Based on Telemetered Power Stations only



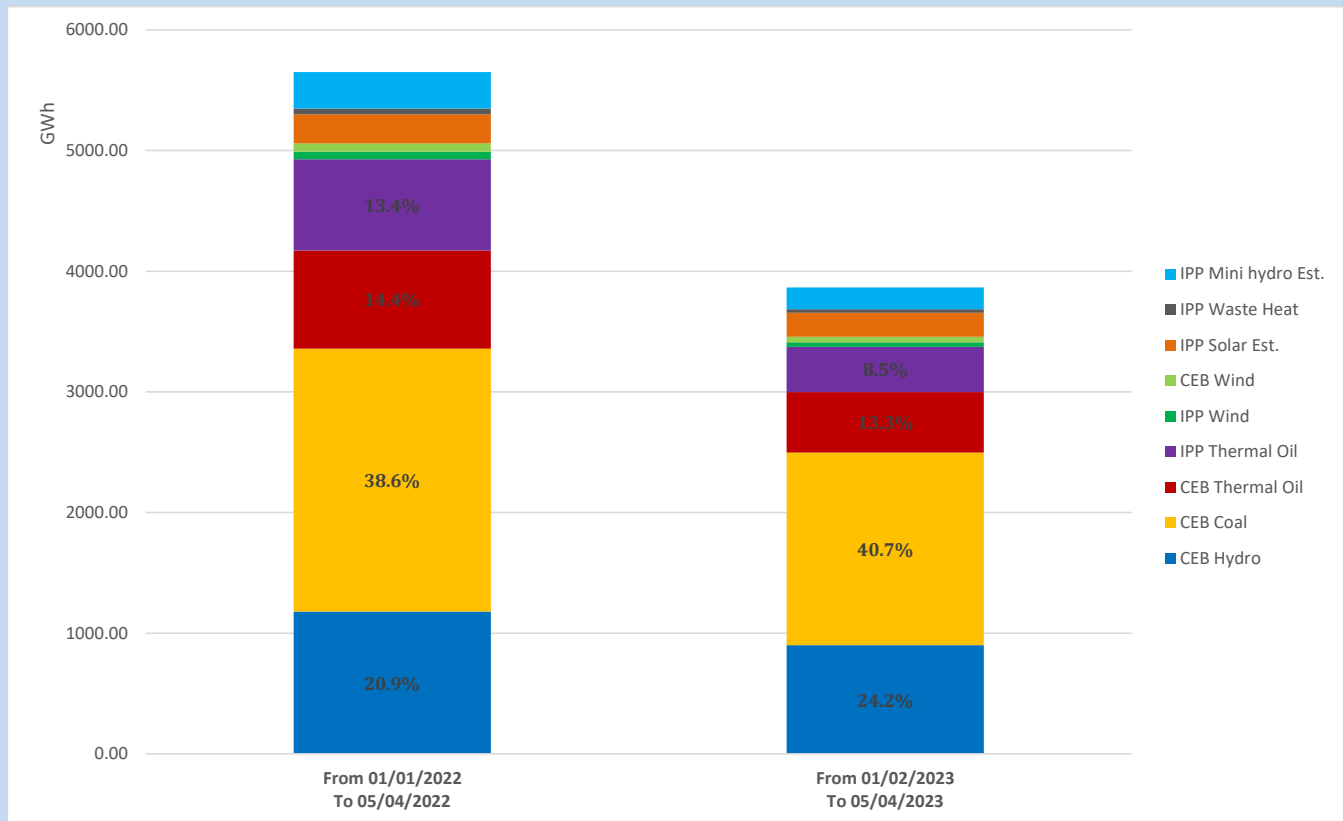
## Solar Generation during

May 4, 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

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

## Major Incidents reported during the day

May 4, 2023

- 1) Kalutara 132/33kV T/F 01 tripped at 10:59hrs with an indication of PRV trip alarm. Kalutara 132/33kV T/F 01 is yet to be restored.
- 2) New Anuradhapura - Kappalthurai cct tripped and A/R from both ends at 14:06hrs due to the operation of distance protection.
- 3) Panadura 132/33kV T/F 02 , T/F 03 and 33kV B/S CB tripped at 15:53hrs due to the operation of over-current protection, causing Panadura 33kV feeders 05, 06, 07 & 08 to be dead. Panadura 132/33kV T/F 02, T/F 03, 33kV B/S CB and 33kV feeders 05, 07 & 08 were normalized at 16:23hrs. 33kV feeder 06 is yet to be normalized.
- 4) Kukule Unit 2 tripped at 15:49hrs due to the operation of under impedance tripping. Kukule Unit 2 was made available at 17:14hrs.
- 5) Hambanthota 33kV feeder 07 tripped at 15:51hrs due to the operation of over-current and earth fault protections causing Hambanthota DPP to reject from the system. Hambanthota 33kV feeder 07 was normalized at 17:24hrs. Hambanthota DPP resumed generation at 19:57hrs.
- 6) Hambanthota 220/132/33kV T/F 02 tripped at 16:42hrs due to the operation of differential protection. Hambanthota 220/132/33kV T/F 02 was restored at 20:35hrs.
- 7) Naula 132/33kV T/F 01 tripped at 23:39hrs due to the operation of O/C protection along with 33kV feeder 05 and 33kV B/S CB causing 33kV B/S 1 to be dead. All the affected feeders and 33kV B/S CB restored by 00:09 hrs(05.05.2023). Naula 132/33kV T/F 01 is yet to be restored.
- 8) Rantembe Unit 2 tripped at 4:12hrs(05.05.2023) due to high upper guide bearing temperature. Rantembe Unit 2 was made available at 06:00hrs(05.05.2023).