

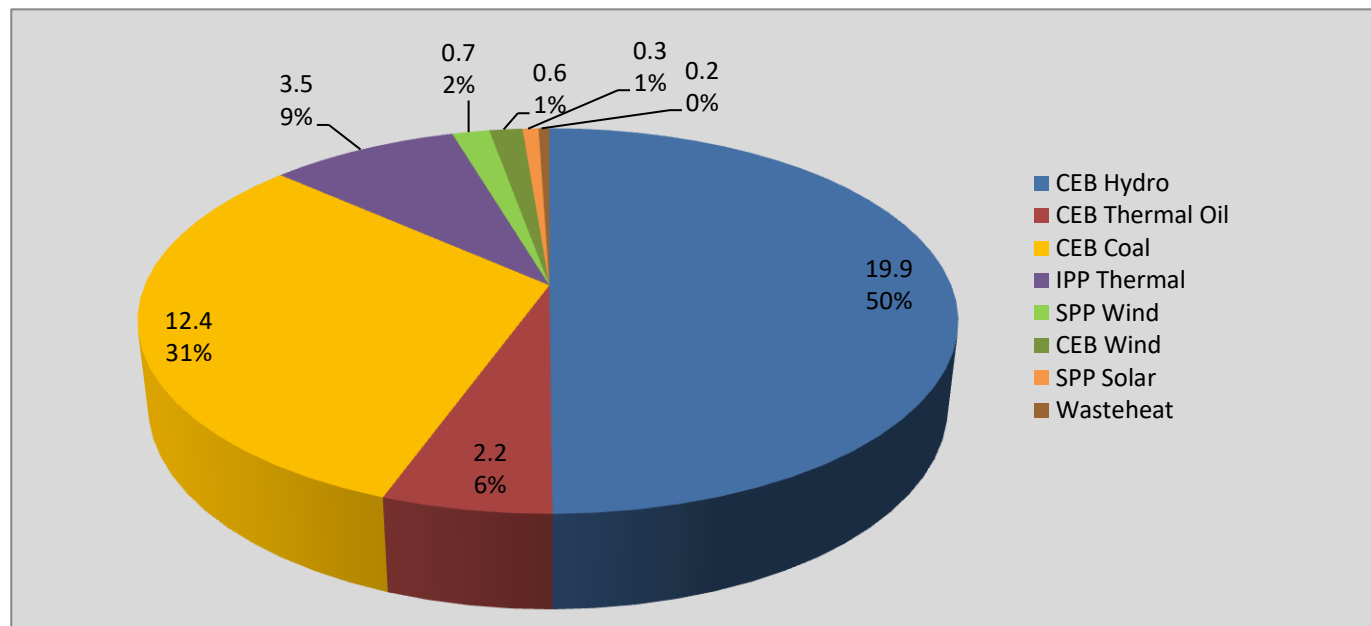
# **Generation and Reservoirs Statistics**

**September 29, 2021**



**PUBLIC UTILITIES COMMISSION OF SRI LANKA**

## Daily Generation Mix in MWh



**Total Generation** **39,884 MWh**

Note: Above data is Excluding contribution from Roof Top Solar, 1MW solar, Mini Hydro plants and Biomass/ waste heat (except 10 MW Waste heat plant at Kerawalapitiya) plants

## Cumulative Dispatch

Note: Following data is Excluding contribution from Roof Top Solar, 1MW solar, Mini Hydro plants and Biomass/ waste heat (except 10 MW Waste heat plant at Kerawalapitiya) plants

### For Current Month

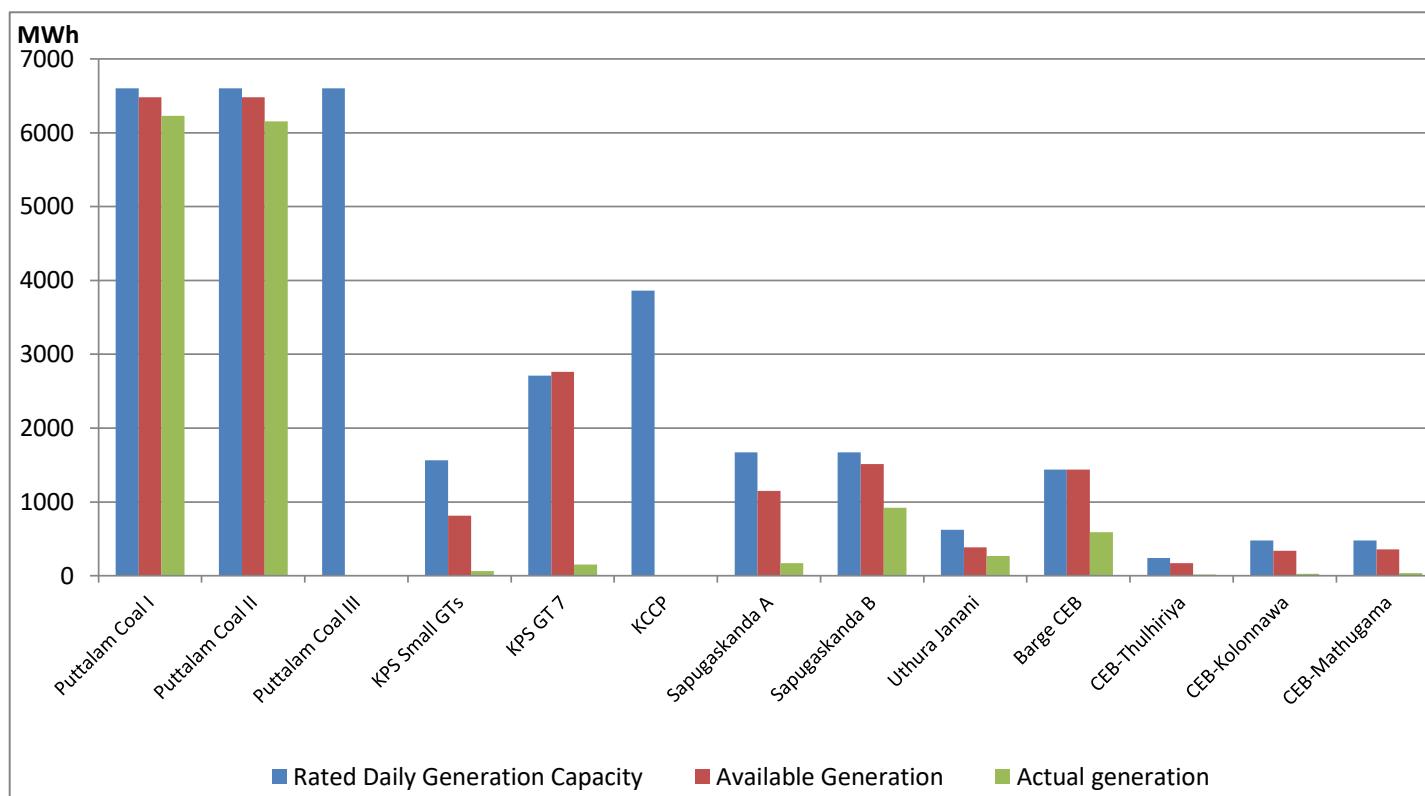
Category	Dispatch (GWh)	
CEB Hydro	446.4	38.87%
CEB Thermal Oil	73.7	6.41%
CEB Coal	467.0	40.66%
IPP Thermal	40.8	3.55%
SPP Wind	43.2	3.76%
CEB Wind	47.8	4.16%
SPP Solar	8.1	0.71%
SPP Waste Heat	5.6	0.49%
<b>Total</b>	<b>1,148.6</b>	

### For Current Year

Category	Dispatch (GWh)	
CEB Hydro	3,672.3	33.66%
CEB Thermal Oil	971.1	8.90%
CEB Coal	4,493.5	41.19%
IPP Thermal	1,223.2	11.21%
SPP Wind	181.5	1.66%
CEB Wind	250.7	2.30%
SPP Solar	73.4	0.67%
SPP Waste Heat	27.2	0.25%
<b>Total</b>	<b>10,908.6</b>	

## CEB owned Thermal Plant Dispatch

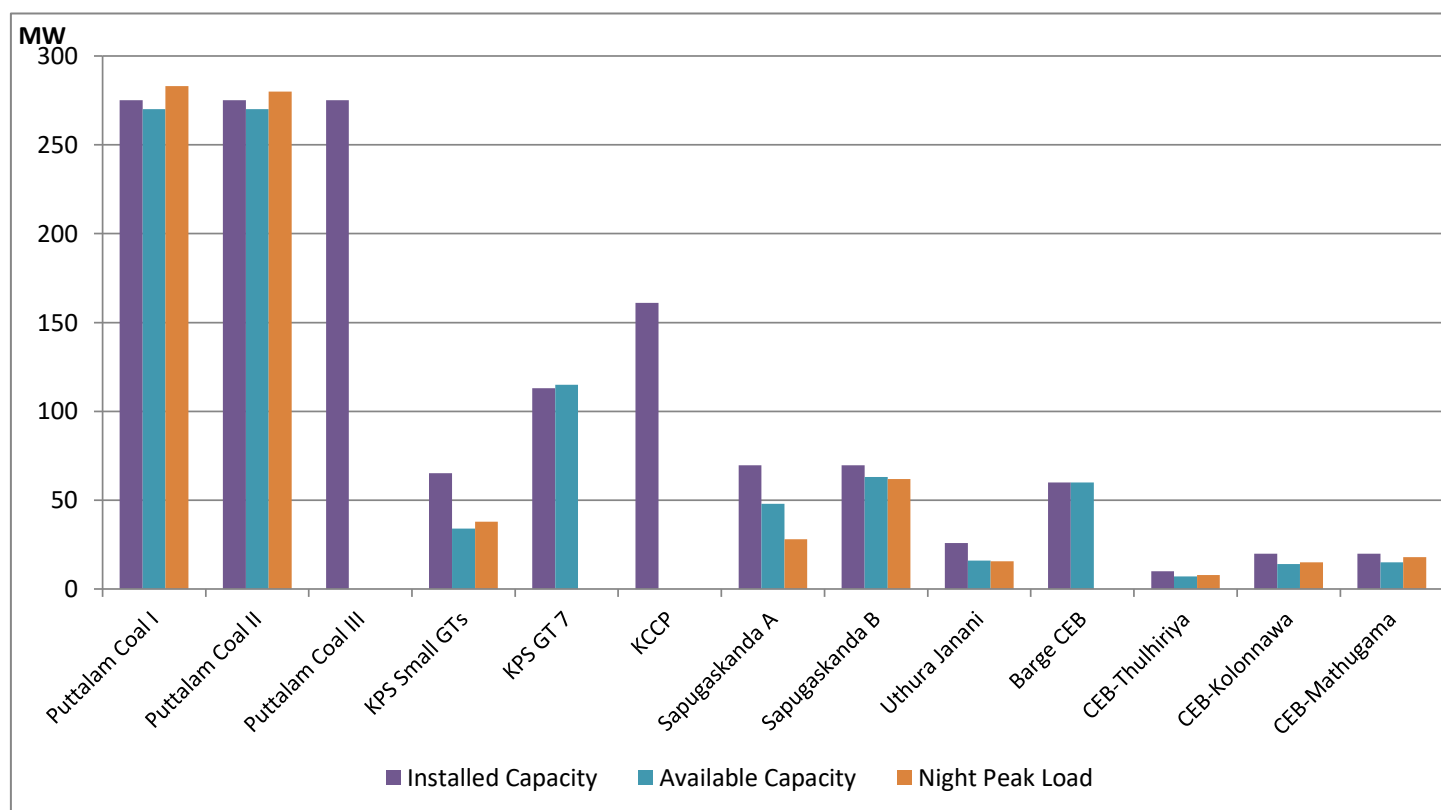
September 29, 2021



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

September 30, 2021

## CEB owned Thermal Plant Loading at the Night Peak



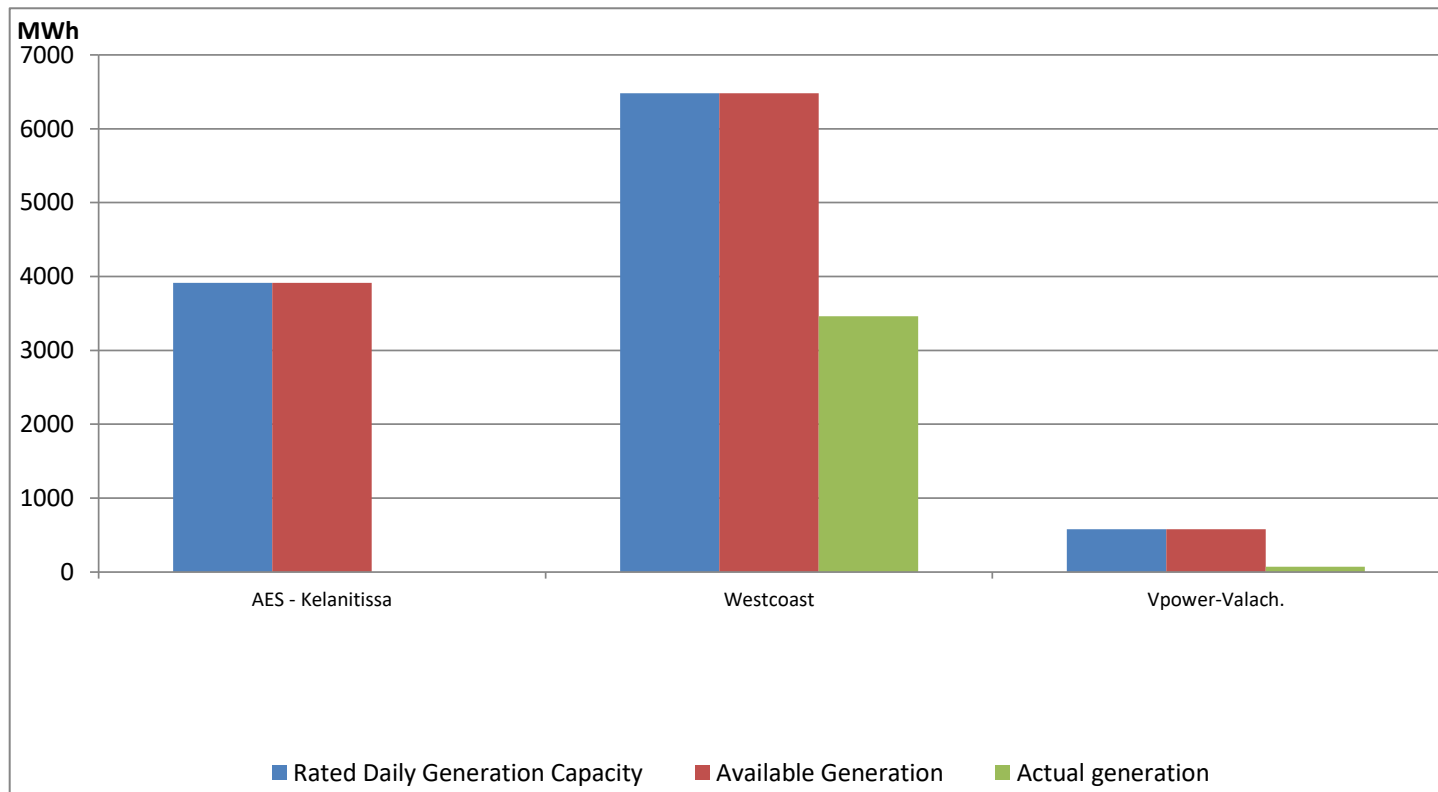
Note- Plant availability is recorded at 6.00 am on

September 30, 2021

## IPP owned Thermal Plant Dispatch

September 29, 2021

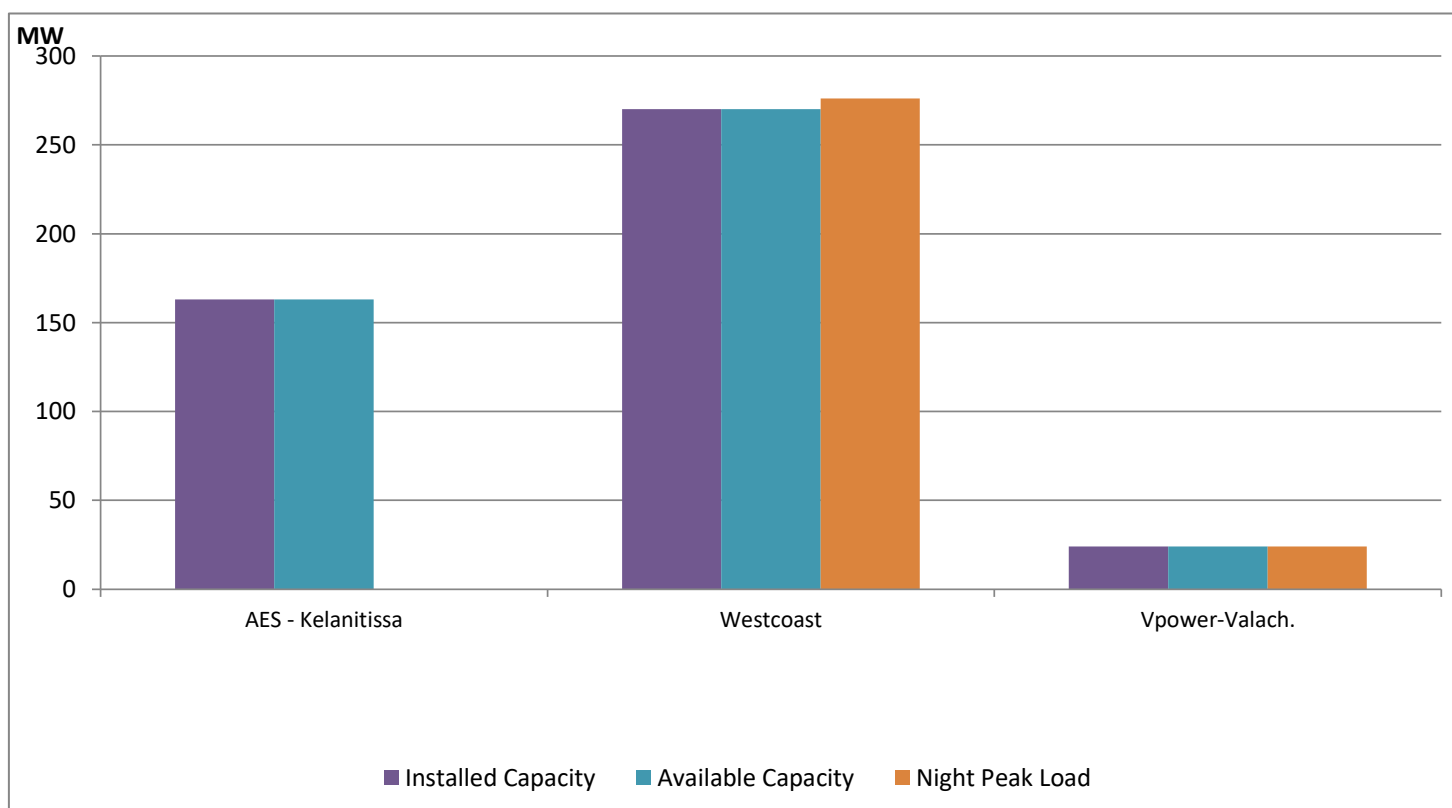
ACE Embilipitiya, ACE Matara, Asia Power, V Power Pallekale, Vpower Galle, V Power Horana, Vpower Hambantota and Altaqa Mahiyanganaya are not available due to expiration of PPAs



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

September 30, 2021

## IPP owned Thermal Plant Loading at the Night Peak

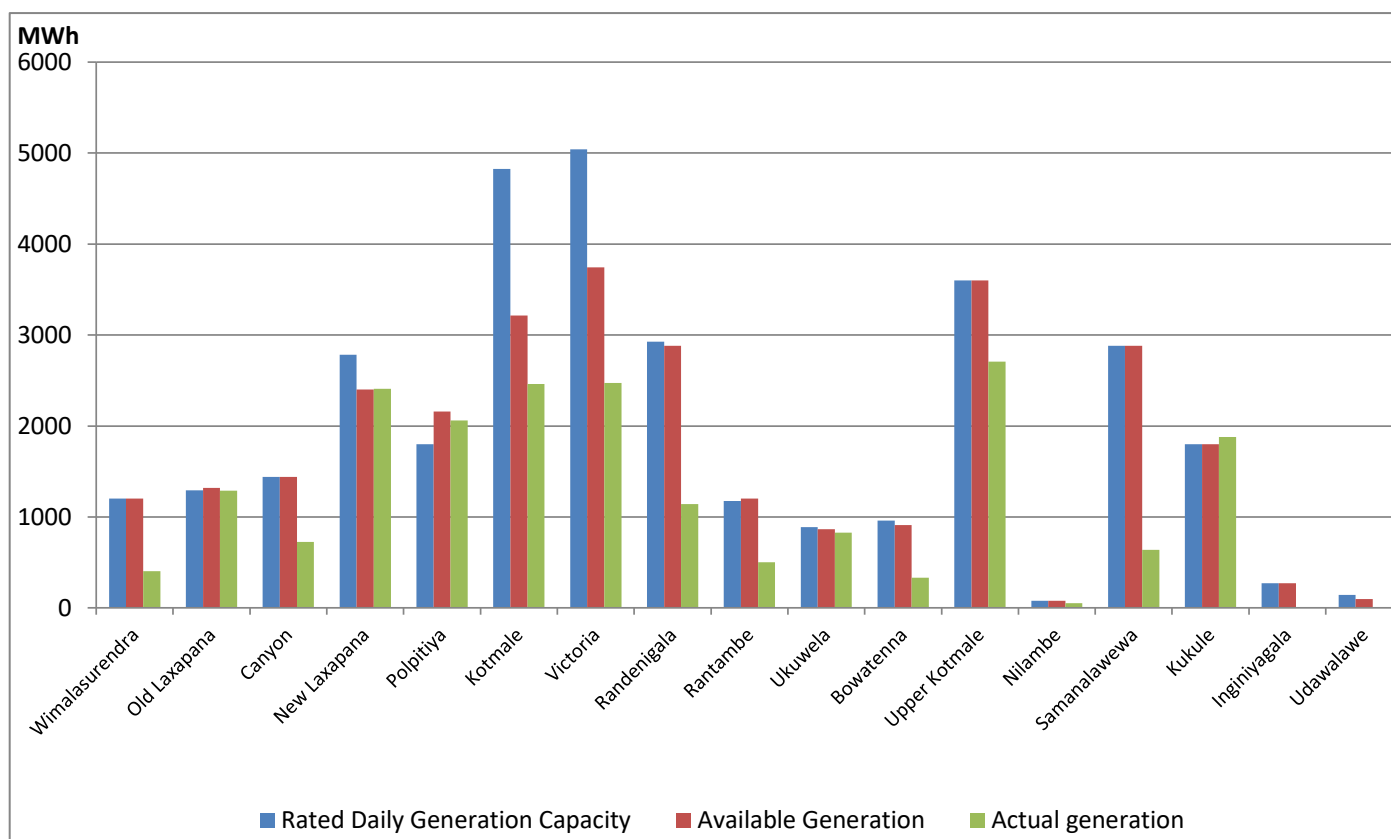


Note- Plant availability is recorded at 6.00 am on

September 30, 2021

## Major Hydro Plant Dispatch

September 29, 2021

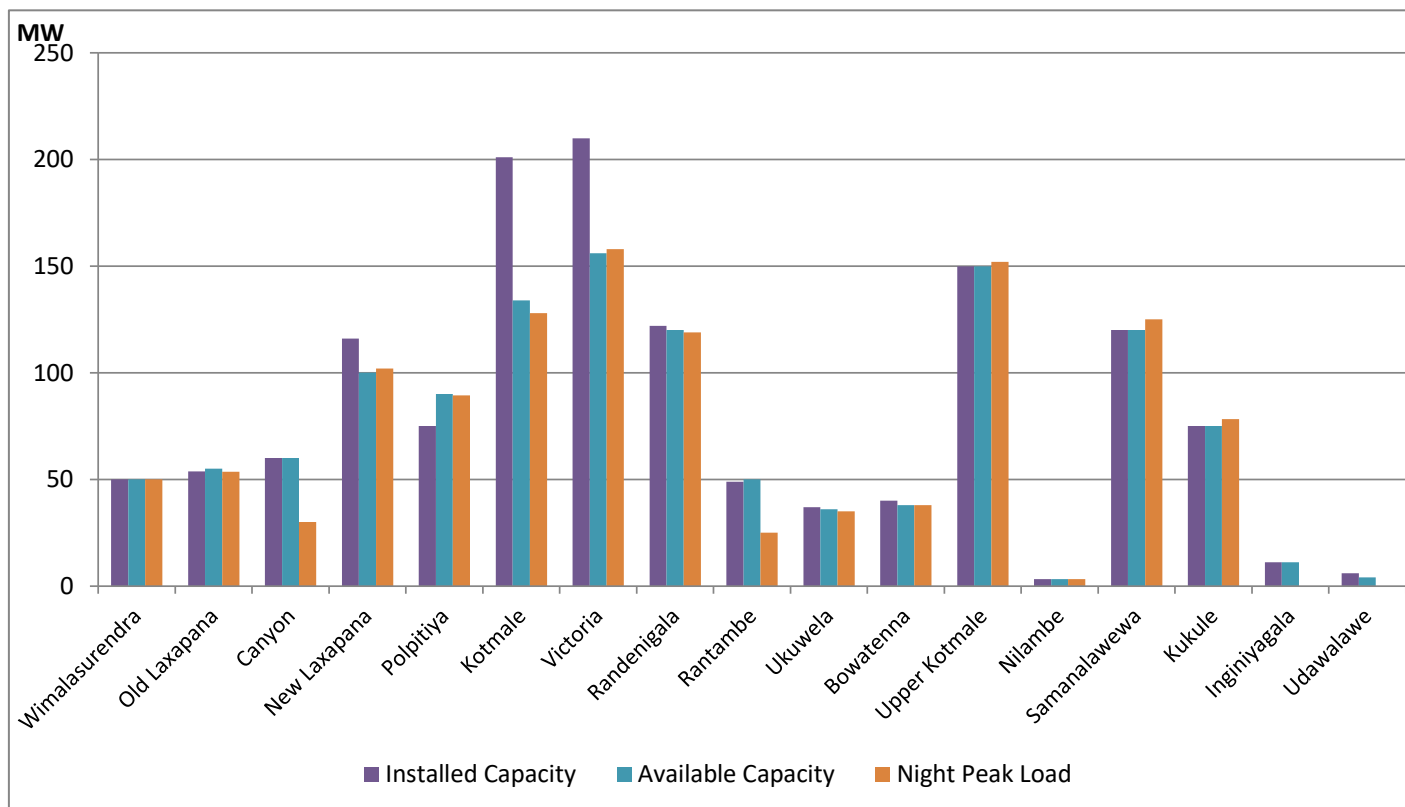


Note- Available Generation is estimated based on plant availability at 6.00am on

September 30, 2021

## Major Hydro Plant Loading at Night Peak

September 29, 2021



Note- Plant availability is recorded at 6.00 am on

September 30, 2021

Summary of Major Plant performance

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(GWh)
Wimalasurendra	50.00	50.00	50.00	402.00
Old Laxapana	53.80	55.00	53.60	1,288.00
Canyon	60.00	60.00	30.00	726.00
New Laxapana	116.00	100.00	102.00	2,407.00
Polpitiya	75.00	90.00	89.50	2,060.00
Kotmale	201.00	134.00	128.00	2,460.00
Victoria	210.00	156.00	158.00	2,474.00
Randenigala	122.00	120.00	119.00	1,143.00
Rantambe	49.00	50.00	25.00	502.00
Ukuwela	37.00	36.00	35.00	828.00
Bowatenna	40.00	38.00	38.00	333.00
Upper Kotmale	150.00	150.00	152.00	2,707.00
Nilambe	3.20	3.20	3.20	53.00
Samanalawewa	120.00	120.00	125.00	638.00
Kukule	75.00	75.00	78.30	1,879.00
Inginiyagala	11.25	11.25	-	-
Udawalawe	6.00	4.00	-	-
Puttalam Coal I	275.00	270.00	283.00	6,231.00
Puttalam Coal II	275.00	270.00	280.00	6,154.00
Puttalam Coal III	275.00	-	-	-
KPS Small GTs	65.20	34.00	38.00	62.00
KPS GT 7	113.00	115.00	-	152.00
KCCP	161.00	-	-	-
Sapugaskanda A	69.60	48.00	28.00	170.00
Sapugaskanda B	69.60	63.00	62.00	920.00
Uthura Janani	26.01	16.00	15.60	269.00
Barge CEB	60.00	60.00	-	591.00
CEB-Thulhiriya	10.00	7.20	8.00	17.00
CEB-Kolonnawa	20.00	14.20	15.00	28.00
CEB-Mathugama	20.00	15.00	18.00	35.00
AES - Kelanitissa	163.00	163.00	-	-
Westcoast	270.00	270.00	276.00	3,463.00
Vpower-Valach.	24.00	24.00	24.00	68.00
Solar	58.00		-	296.00
Wind	128.00		53.10	1,327.00
MH and BM	394.00		107.00	Not available
Total without NCRE	3,538.46	2,621.85		

Night peak load of MH and BM only include loading of Minihydro plants of total capacity MW 188

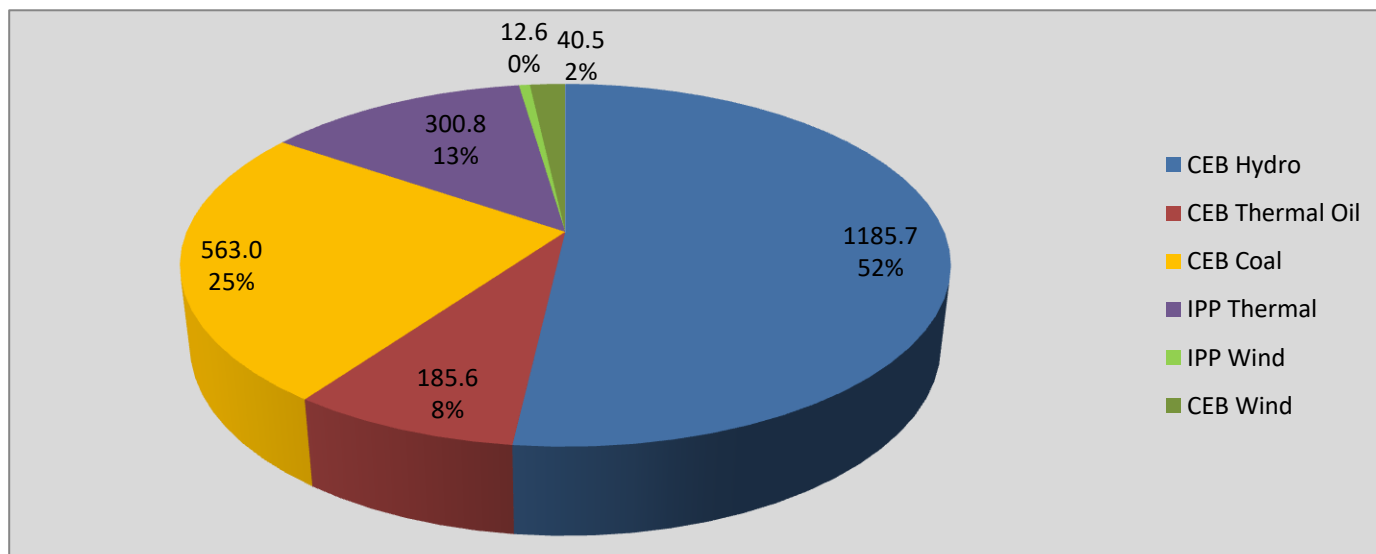
Installed capacity of Solar, wind, Mini-hydro and Biomass plants are as of end of December 2019

Plant availability is the availability recorded at 6 am on

September 30, 2021

## Contribution to the Night Peak in MW

September 29, 2021

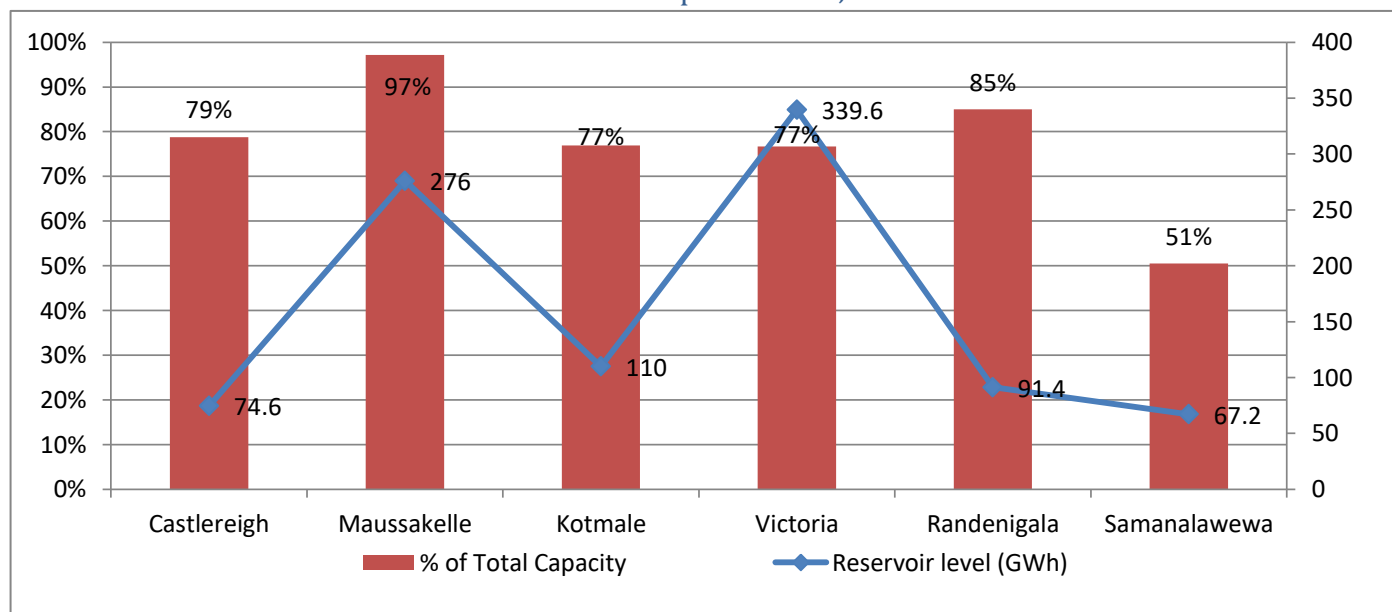


Night Peak\* 2,288.2 MW  
 Day Peak 1,923.0 MW  
 Minimum Demand 1,205.8 MW

Notes: Above figures are excluding contribution from Roof Top Solar, 1MW solar, certain Wind plants and all Mini Hydro plants and Biomass plants

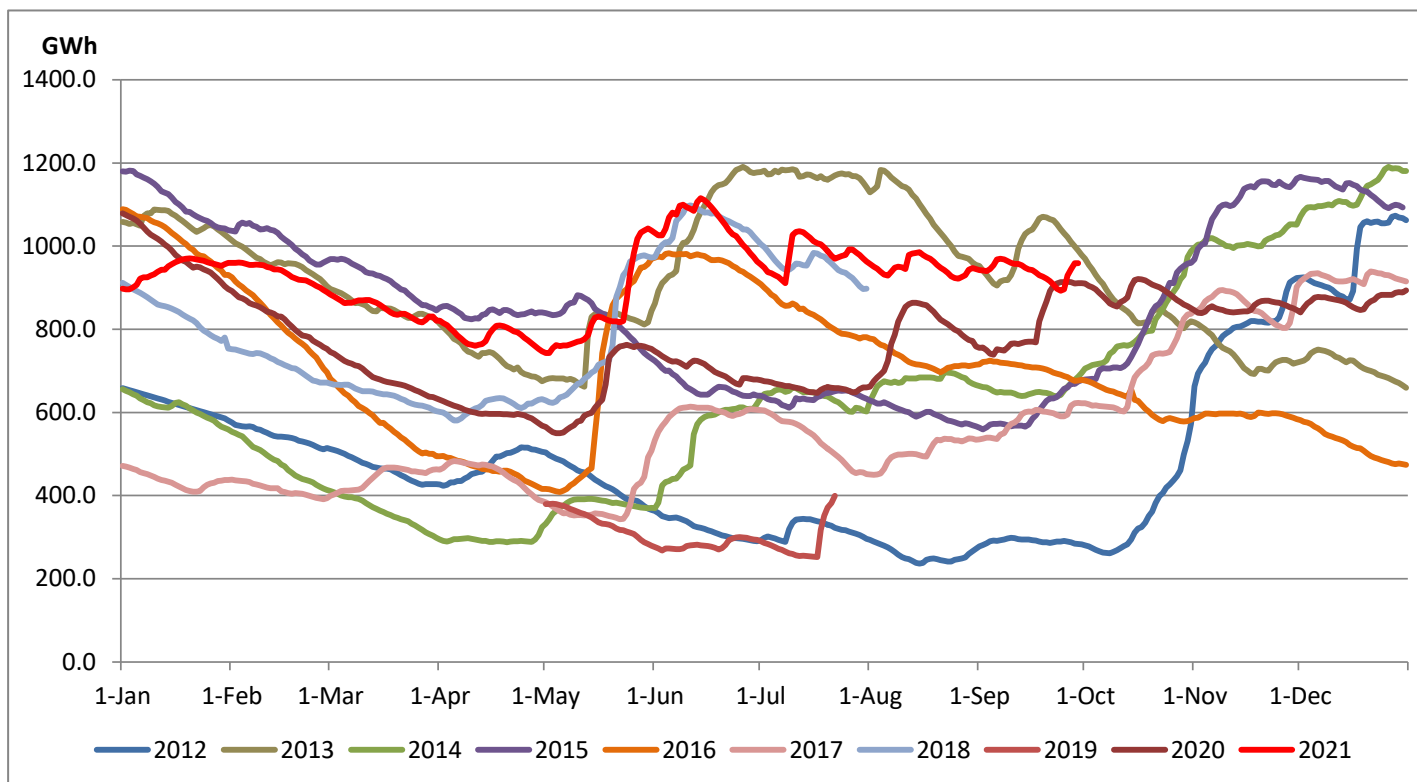
\* in addition to the night peak figure presented above, Kerawalapitiya waste heat plant, other MiniHydro and Biomass Plants of installed capacity 188.00 MW has recorded total 114.90 MW at night peak

## Reservoir Levels - as at 06.00 Hr on September 30, 2021



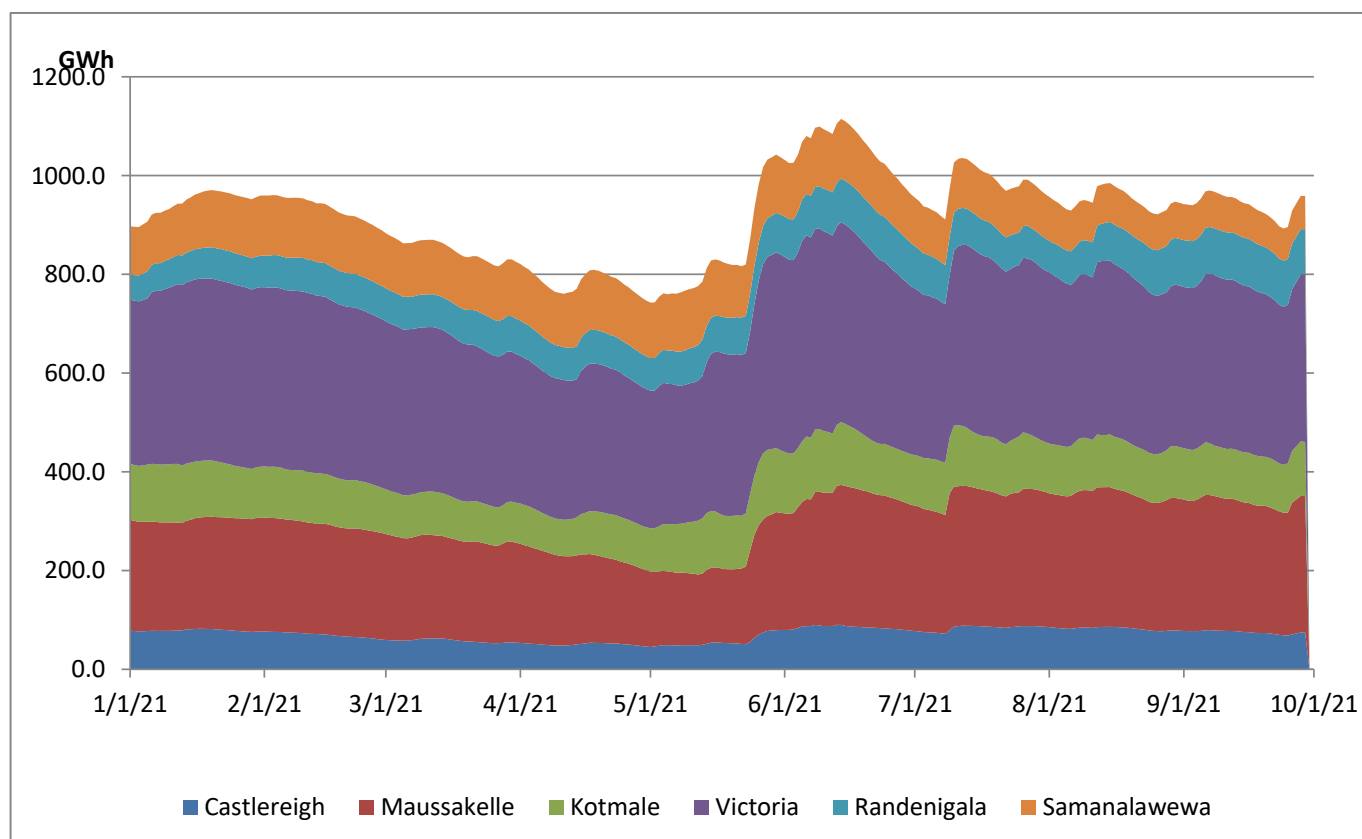
Total Reservoir Level(GWh) 958.8  
 % of Total capacity 79.6%

## Comparison of Total Reservoir Storage Levels with Past Years



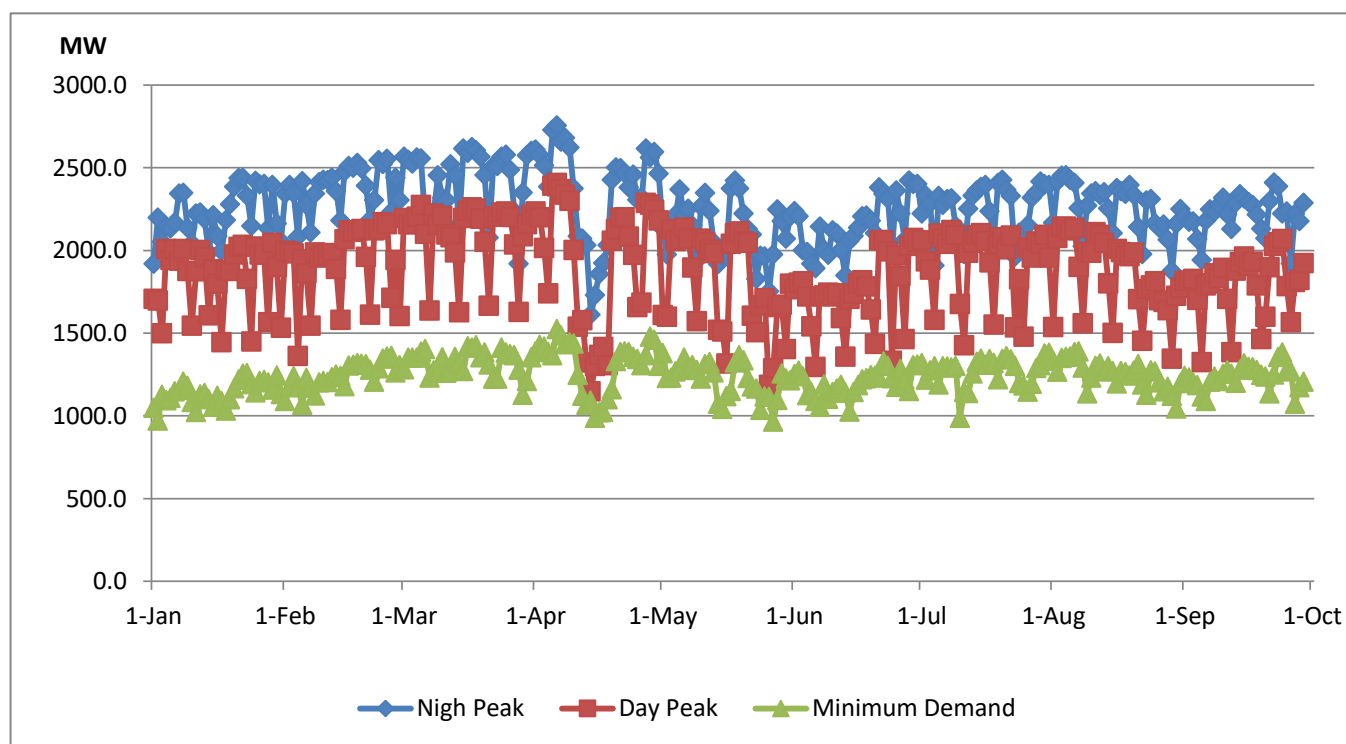
Data for 2018 and 2019 are only available for part of year.

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





## Variation of Demand during the current year



### Notes:

The night peak is excluding the contribution from Minihydro and biomass power plants

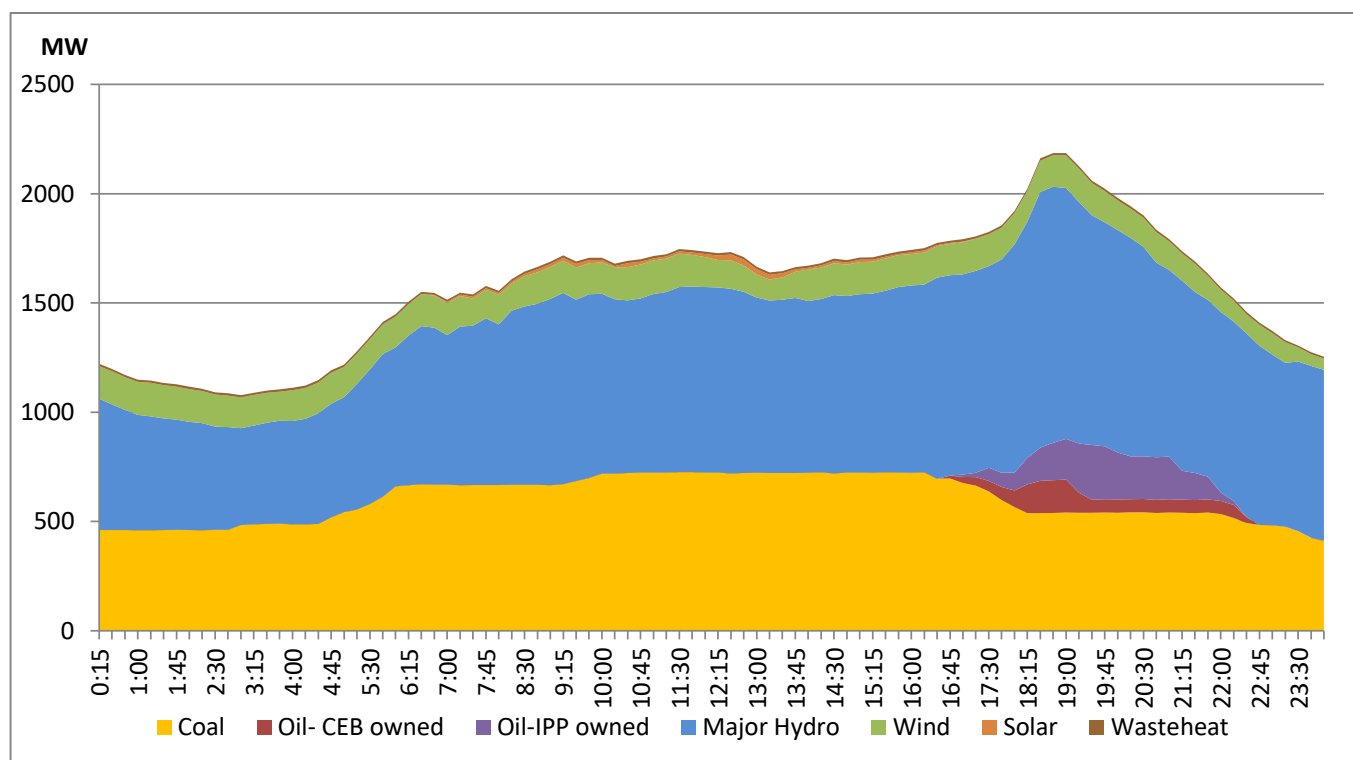
Day peak and minimum demand graphs includes the contribution from Moragahakanda power plant

All graphs include the contribution from telemetered solar and wind plants

## Daily Load Curve of the Previous day

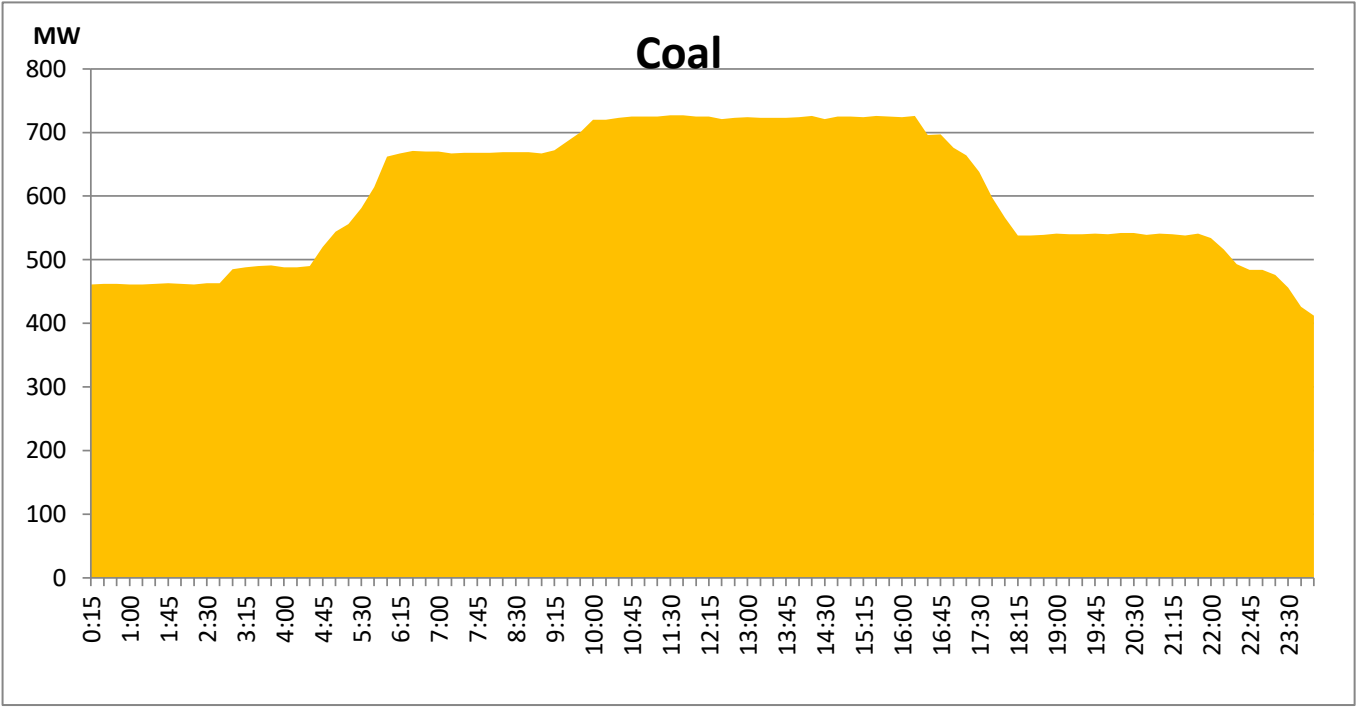
September 28, 2021

Solar and wind data is based on Telemetered Power Stations only



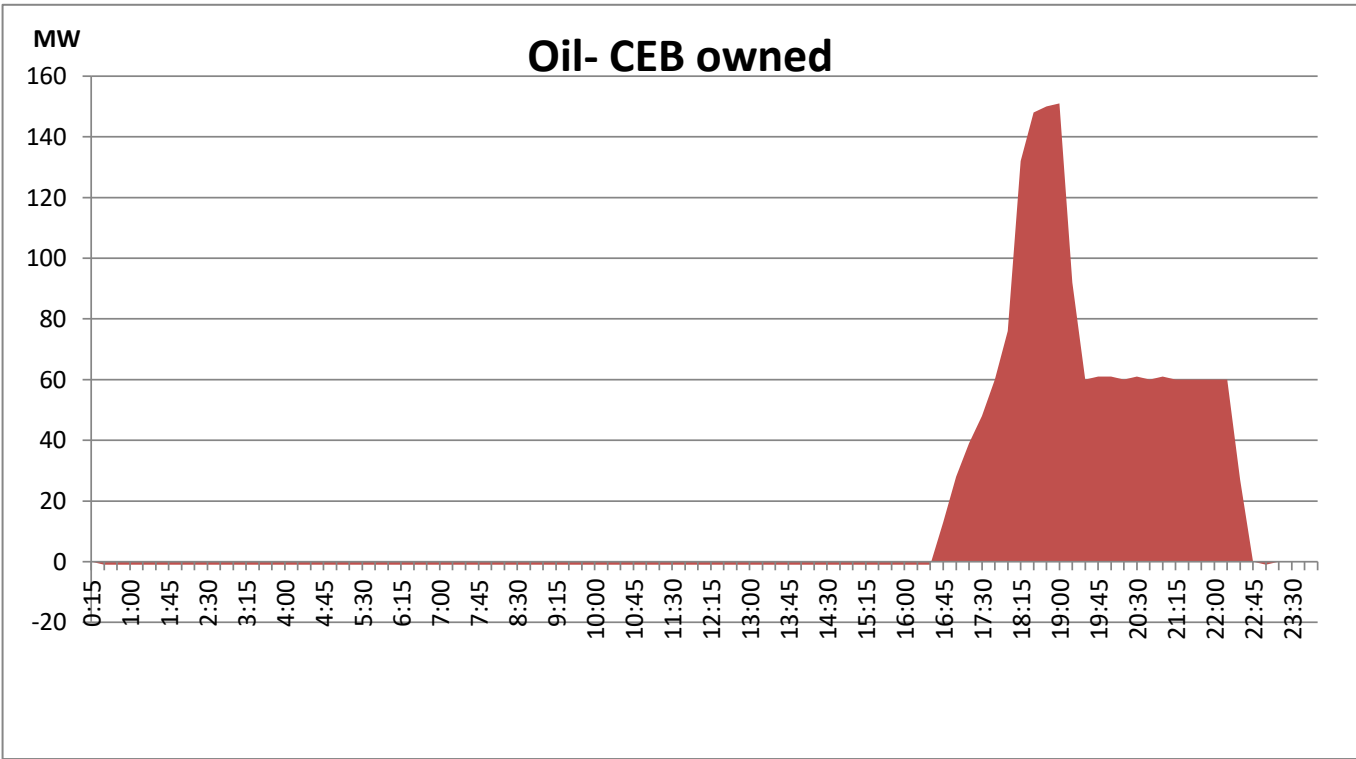
Coal Generation during the Previous day

September 28, 2021



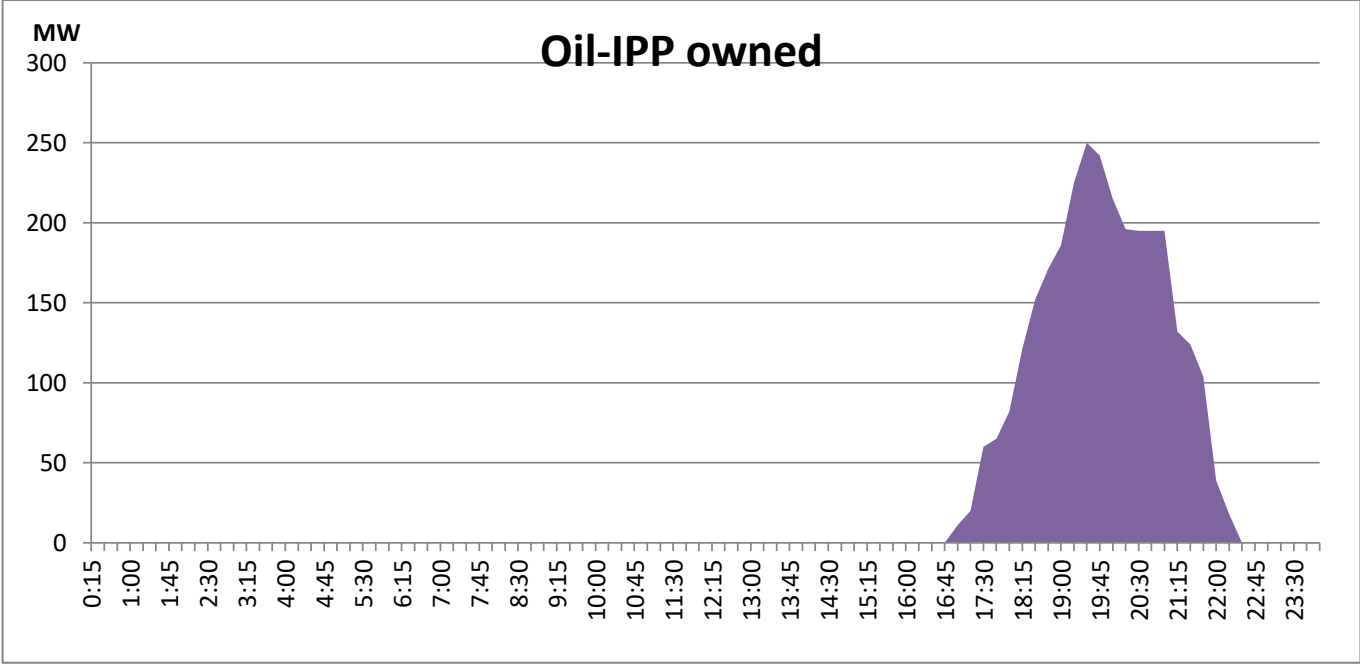
CEB Oil Plant Generation during the Previous day

September 28, 2021



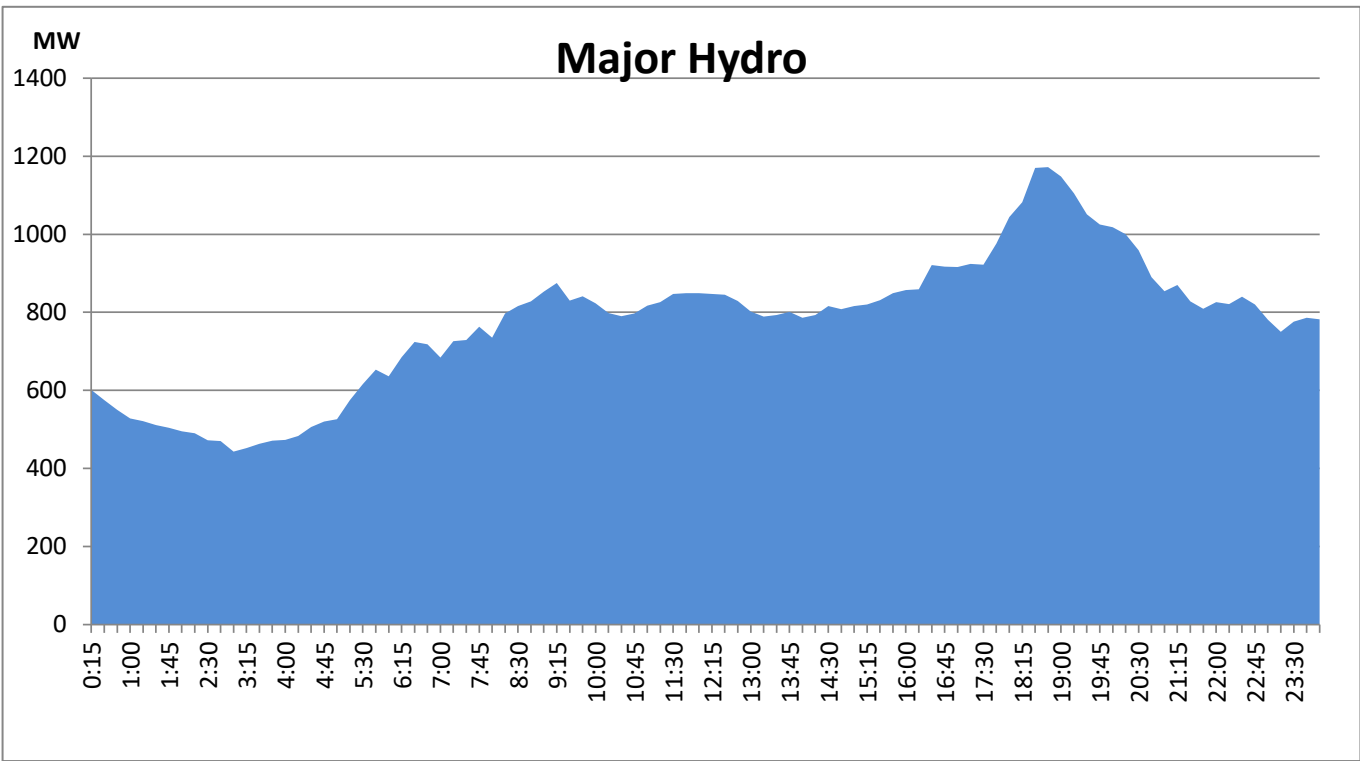
IPP Oil Plant Generation during the Previous day

September 28, 2021



Major Hydro Generation during the Previous day

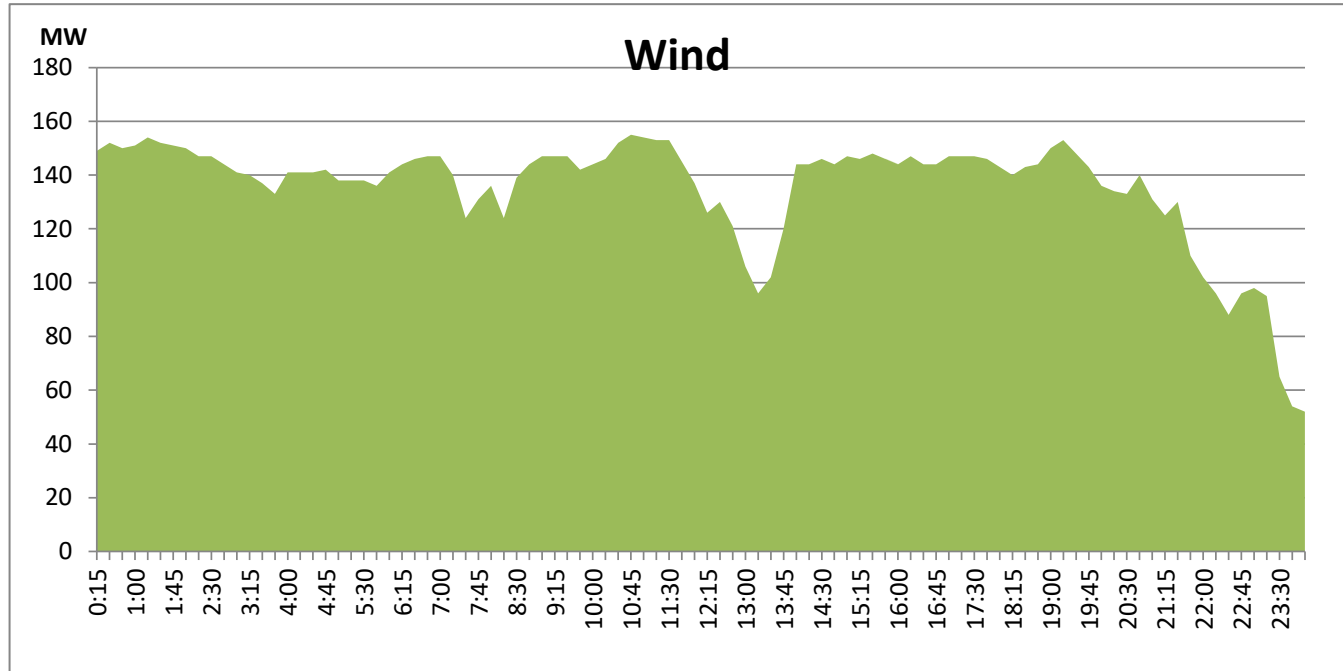
September 28, 2021



## Wind Generation during the Previous day

September 28, 2021

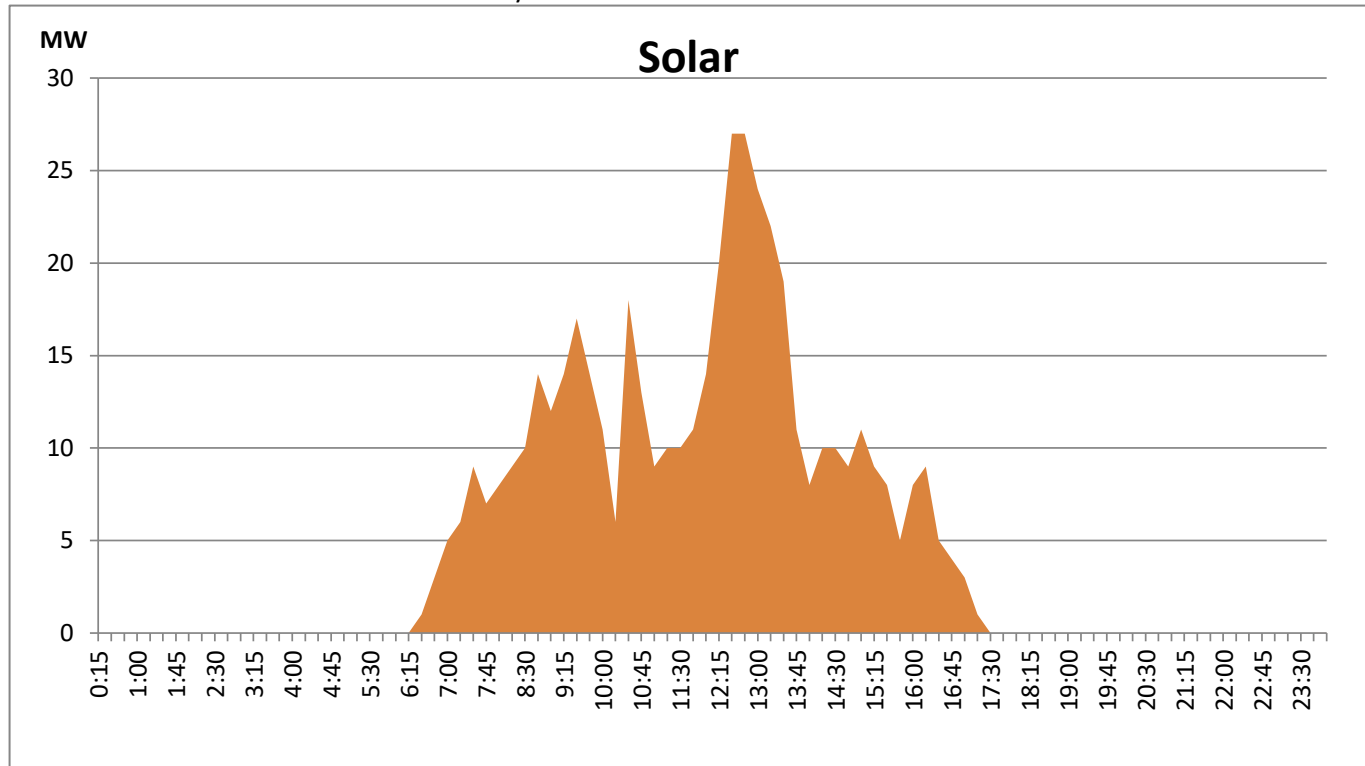
Based on Telemetered Power Stations only



## Solar Generation during the Previous day

September 28, 2021

Based on Telemetered Power Stations only



## 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	Naptha & Diesel
Lakvijaya 1	Coal
Lakvijaya 2	Coal
Lakvijaya 3	Coal
Uthuru Janani	Heavy Fuel
Barge CEB	Furnace Oil

Power Station	Primary Fuel
Private Thermal	
Sojitz -	Auto Diesel
West Coast	Low Sulphur Furnace oil

### Major Incidents during the day -as reported by CEB morning of

September 30, 2021

- 1) Kelanitissa 220kV GIS -Barge cable tripped at 16:19hrs rejecting 60 MW from the system with indication of "generator/cable protection tripped". Kelanitissa -Barge cable restored at 22:13hrs.
- 2) Rotational manual load shedding was carried out between 18:19hrs to 19:18hrs due to inadequate generation.
- 3) Kukule spilling stopped at 13:30hrs.
- 4) Laxapana pond spilling stopped at 02:55hrs on 30.09.2021.
- 5) Canyon pond spilling started at 18:12hrs and stopped at 23:54hrs.
- 6) Rantembe Unit 01 made available from 03:28hrs on 30.09.2021 after annual maintenance.