

Generation and Reservoirs Statistics

April 18, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

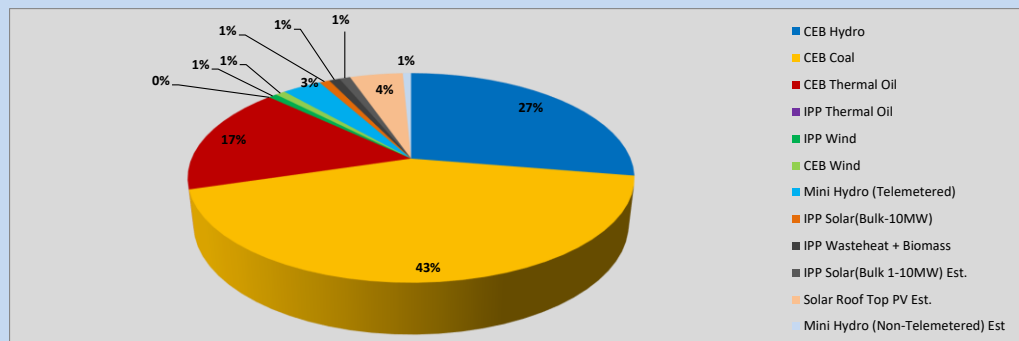


Table 01

	Generation (MWh)
CEB Hydro	12,516
CEB Coal	19,377
CEB Thermal Oil	7,544
IPP Thermal Oil	-
IPP Wind	334
CEB Wind	388
Mini Hydro (Telemetered)	1,526
IPP Solar (Bulk)	403
IPP Waste heat + Biomass	419
Total Generation (Excluding estimated figures)	42,507
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	325
* Estimated IPP Solar PV (Bulk 1-10MW)	429
* Estimated Solar Roof Top PV	2080
Total Generation (Including estimated figures)	45,341

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1644
CEB Coal	810
CEB Thermal Oil	773.1
IPP Thermal Oil (West Coast)	270
IPP Wind	163
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	54
IPP Solar	137
Rooftop Solar (Ordinary)	293
Rooftop Solar (LT Bulk)	272
Rooftop Solar (HT Bulk)	74

Data Source - Monthly Review Report [Nov-2023]

2. Cumulative Dispatch

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

Table 03 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	202	25.53%
CEB Coal	309	39.16%
CEB Thermal Oil	104	13.10%
IPP Thermal	76	9.67%
SPP Wind	5	0.67%
CEB Wind	5	0.66%
Mini Hydro *	31	3.92%
IPP Solar *	51	6.42%
IPP Waste heat + BMP	7	0.87%
Total	790	

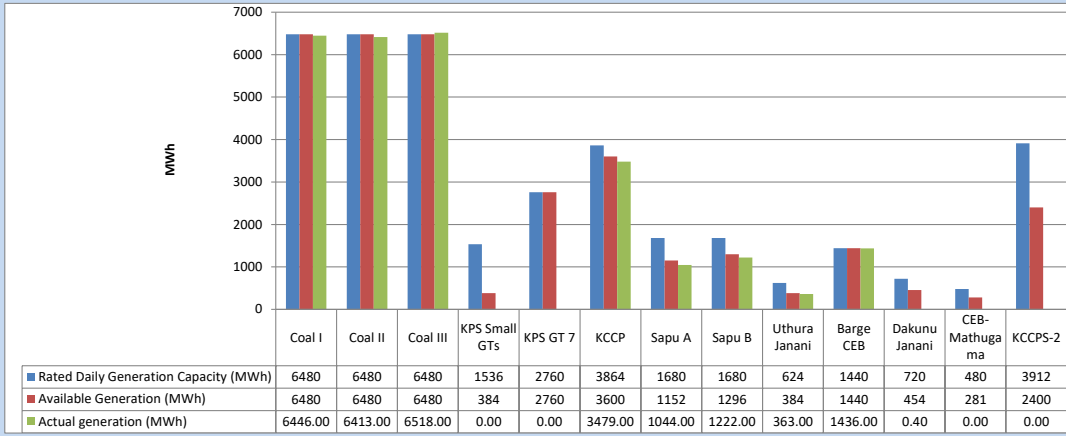
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	1,465	30.39%
CEB Coal	1,786	37.06%
CEB Thermal Oil	483	10.02%
IPP Thermal	408	8.46%
SPP Wind	52	1.07%
CEB Wind	60	1.25%
Mini Hydro *	266	5.52%
IPP Solar *	260	5.39%
IPP Waste heat	40	0.83%
Total	4,819	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

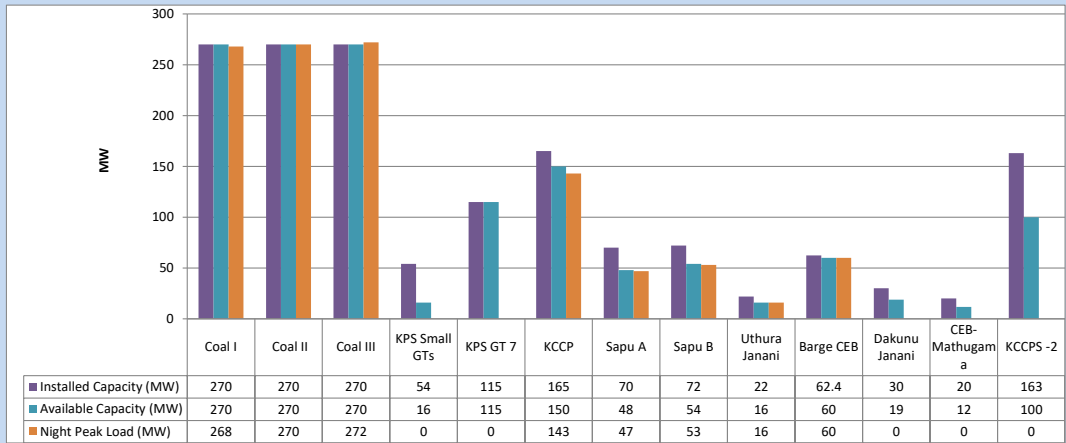
April 18, 2024



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

April 19, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

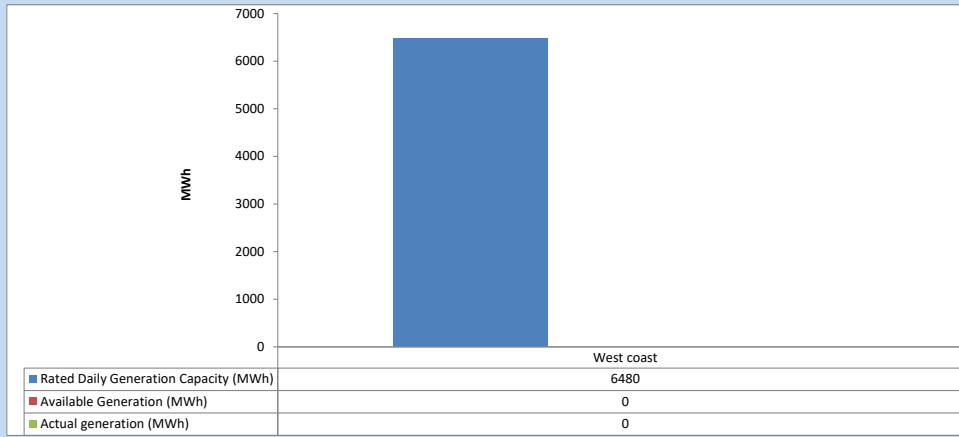


Plant availability is recorded at 6.00 am on

April 19, 2024

5. IPP owned Thermal Plant Dispatch

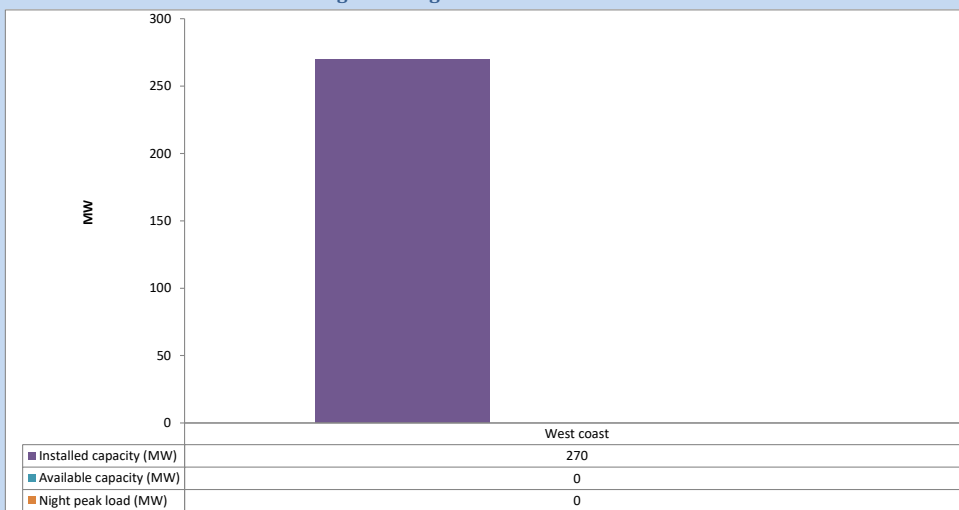
April 18, 2024



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

April 19, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

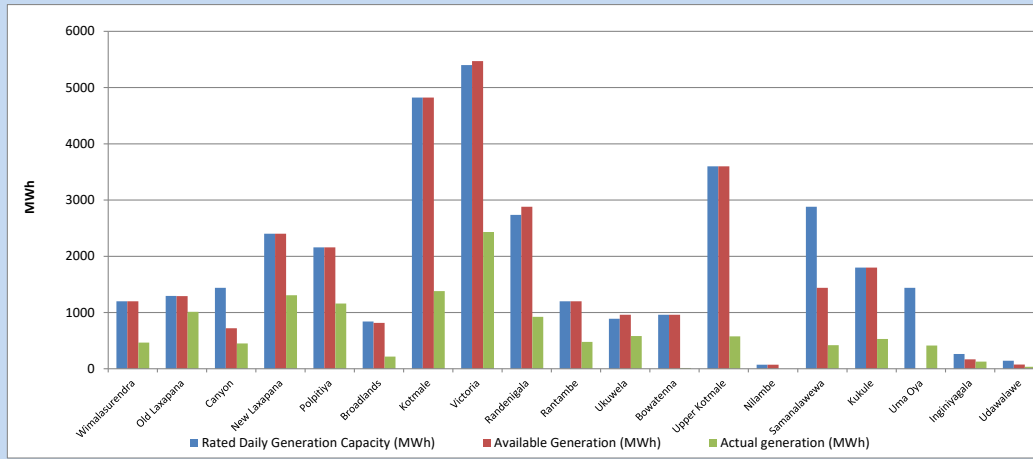


Plant availability is recorded at 6.00 am on

April 19, 2024

7. Major Hydro Plant Dispatch

April 18, 2024

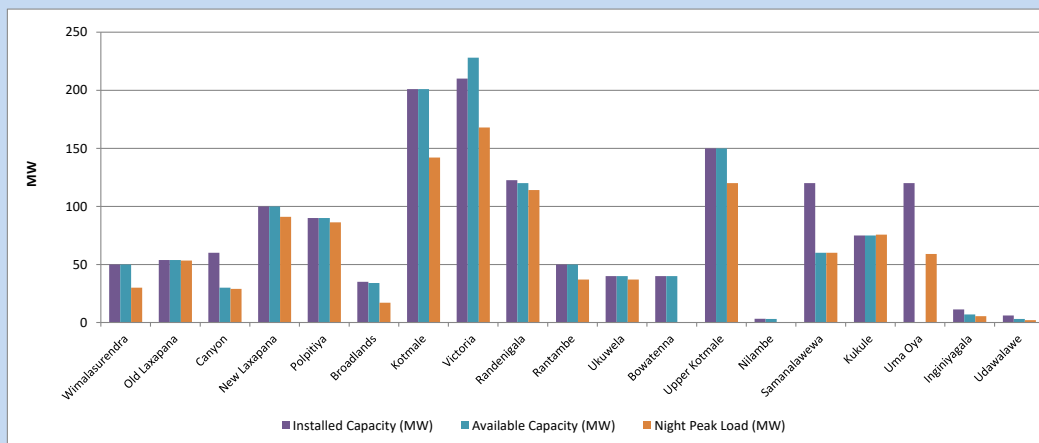


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

April 19, 2024

8. Major Hydro Plant Loading at Night Peak

April 18, 2024



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

April 19, 2024

9. Summary of Major Plant performance

Table 05

Plant	Maximum Available Total Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	50	30	464
Old Laxapana	54	54	53	1,013
Canyon	60	30	29	451
New Laxapana	100	100	91	1,306
Polpitiya	90	90	86	1,160
Broadlands	35	34	17	215
Kotmale	201	201	142	1,380
Victoria	210	228	168	2,431
Randenigala	123	120	114	922
Rantambe	50	50	37	477
Ukuwela	40	40	37	581
Bowatenna	40	40	0	15
Upper Kotmale	150	150	120	577
Nilambe	3	3	0	0
Samanalawewa	120	60	60	419
Kukule	75	75	76	529
Uma Oya (Testing)	120	0	59	413
Inginiyagala	11	7	5	128
Udawalawe	6	3	2	36
Puttalam Coal I	270	270	268	6,446
Puttalam Coal II	270	270	270	6,413
Puttalam Coal III	270	270	272	6,518
KPS Small GTs	54	16	0	0
KPS GT 7	115	115	0	0
KCCP	165	150	143	3,479
Sapugaskanda A	70	48	47	1,044
Sapugaskanda B	72	54	53	1,222
Uthura Janani	22	16	16	363
Barge CEB	62	60	60	1,436
CEB-Hambantota	30	19	0	0
CEB-Mathugama	20	12	0	0
ACE Matara	24	0	0	0
Asia Power	50	0	0	0
KCCPS -2	163	100	0	0
West Coast	270	0	0	0
Nothern Power	36	0	0	0
ACE Embilipitiya	93	0	0	0
Total	3,594	2,735	2,368	42,508

Note-

Plant availability is the availability recorded at 6 am on

April 19, 2024

Installed Capacity is sourced from CEB Annual Report- 2022

10. Contribution to the Night Peak in MW

April 18, 2024

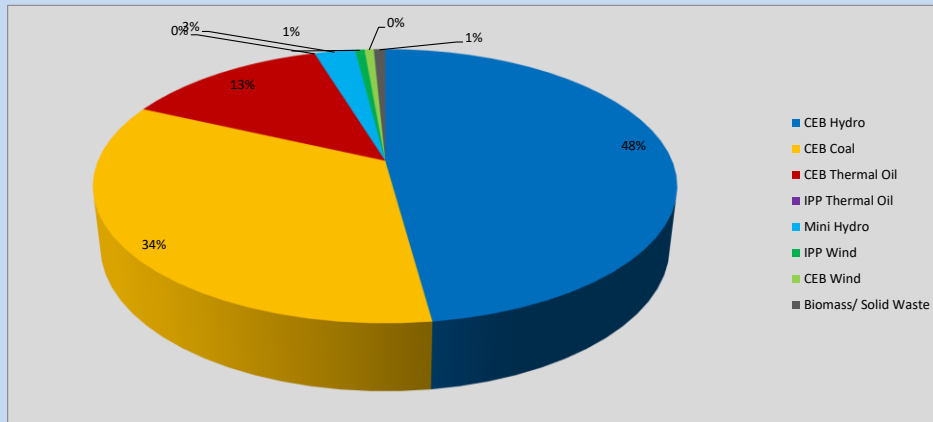


Table 06

CEB Hydro	1139	MW
CEB Coal	810	MW
CEB Thermal Oil	319	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	64	MW
IPP Wind	14.9	MW
CEB Wind	14.6	MW
Biomass/ Solid Waste	18	MW

Recorded Peak Demand Data

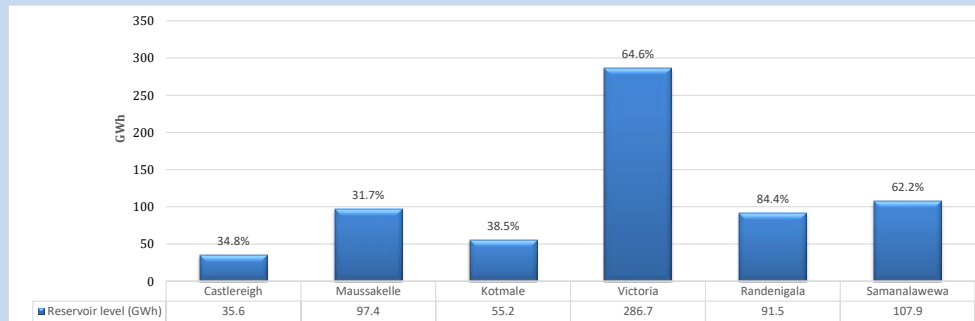
Table 07

Night Peak*	2,380	MW
Day Peak Maximum Demand	2,063	MW
Day Peak Minimum Demand	1,622	MW
Off Peak Minimum Demand	1,362	MW

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

Reservoir Levels -

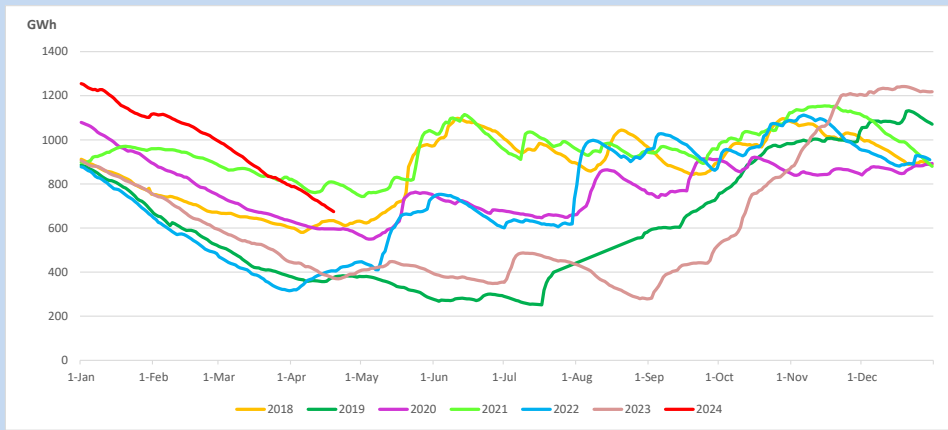
as at 06.00 Hr on April 19, 2024



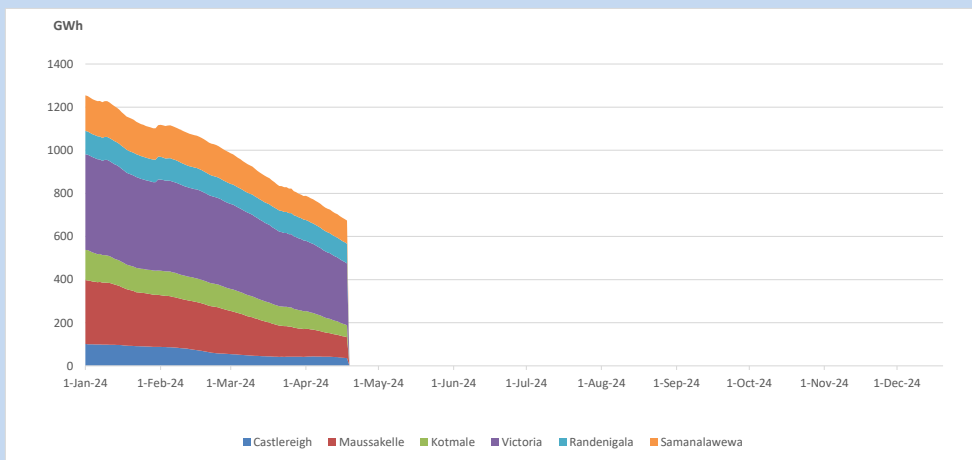
Total Reservoir Level
% of Total capacity

674.3 GWh
52.7%

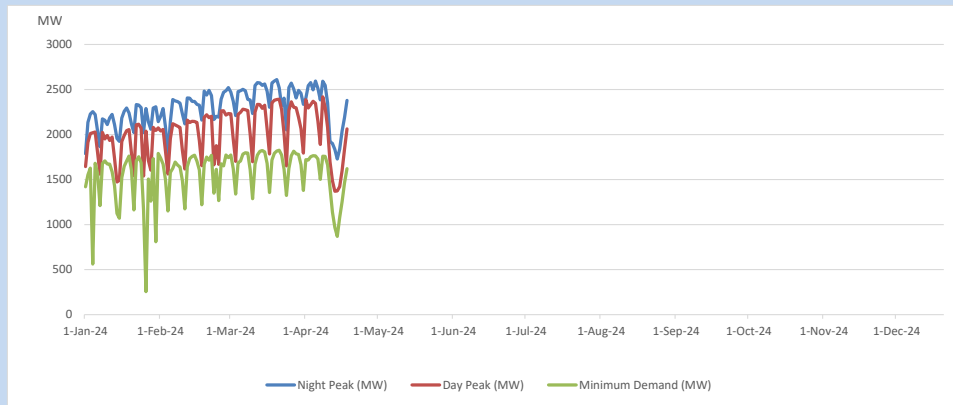
11. Comparison of Total Reservoir Storage Levels with Past Years



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



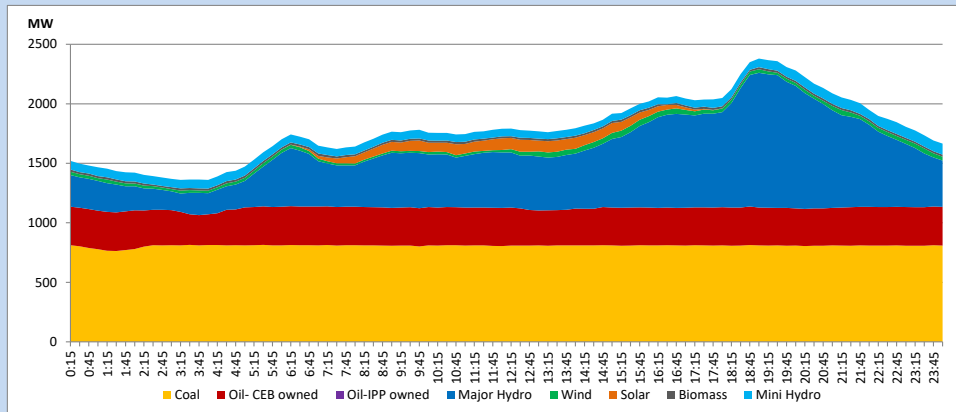
13. Variation of Demand during the current year



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

14. Daily Load Curve

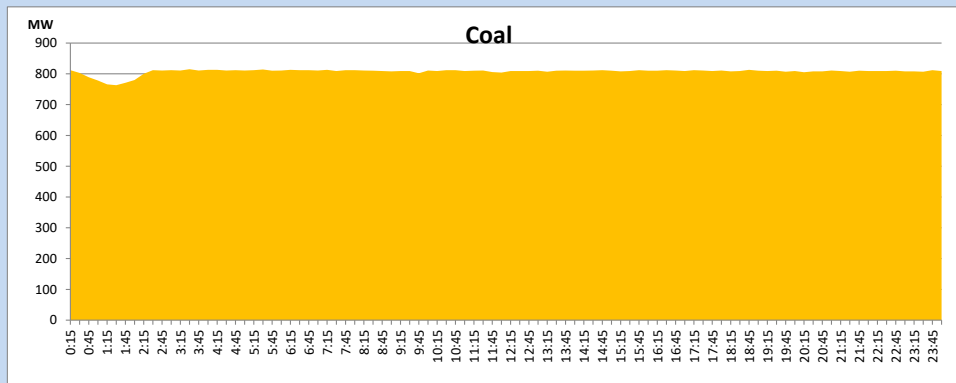
April 18, 2024



Solar and wind data is based on Telemetered Power Stations only

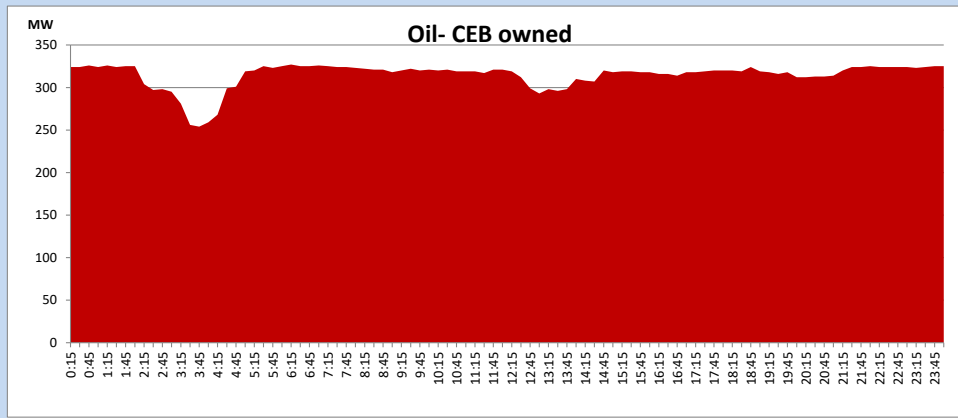
Coal Generation during

April 18, 2024



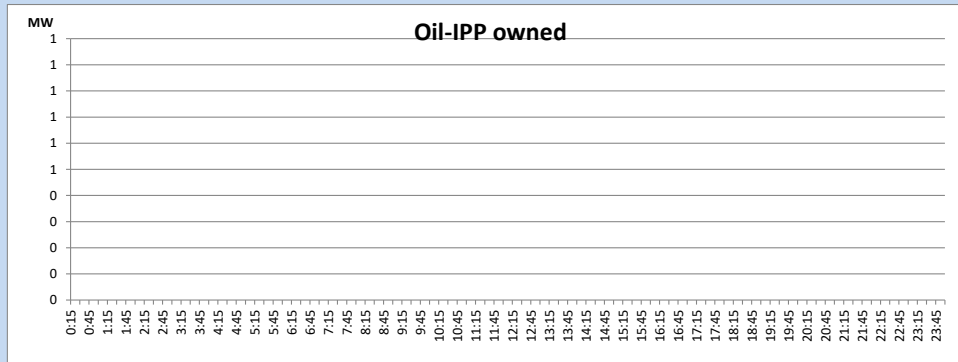
CEB Oil Plant Generation during

April 18, 2024



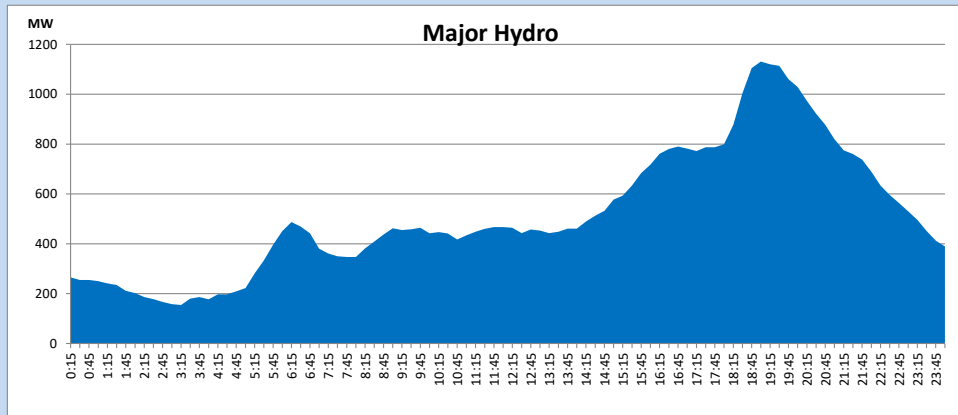
IPP Oil Plant Generation during

April 18, 2024



Major Hydro Generation during

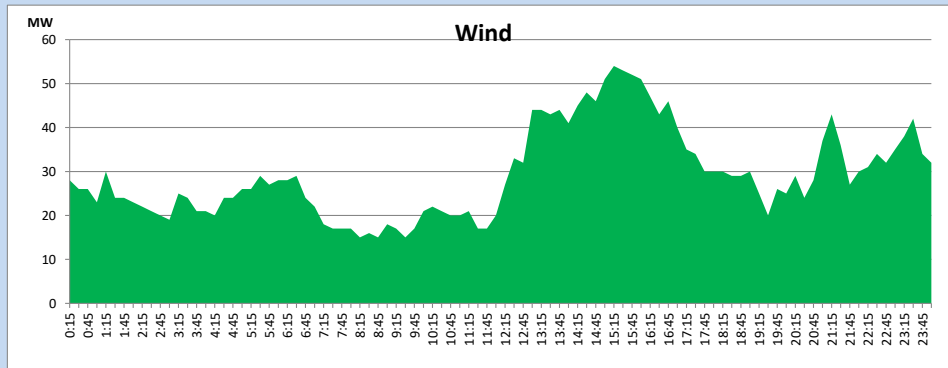
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Wind Generation during

April 18, 2024

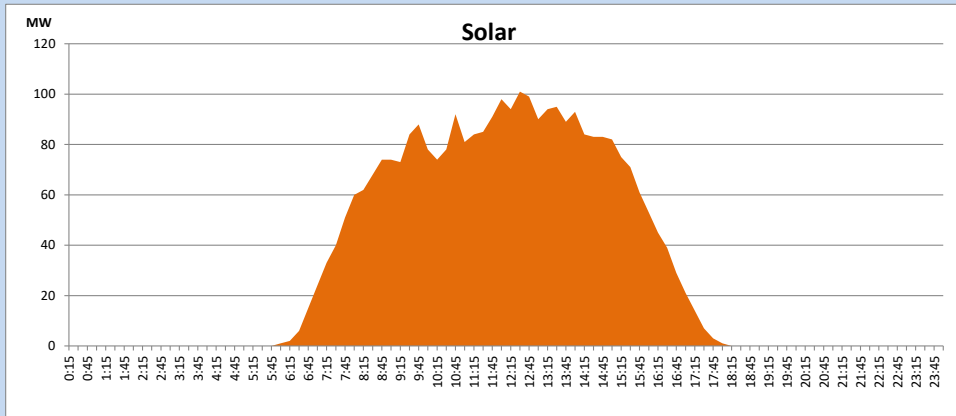
Based on Telemetered Power Stations only



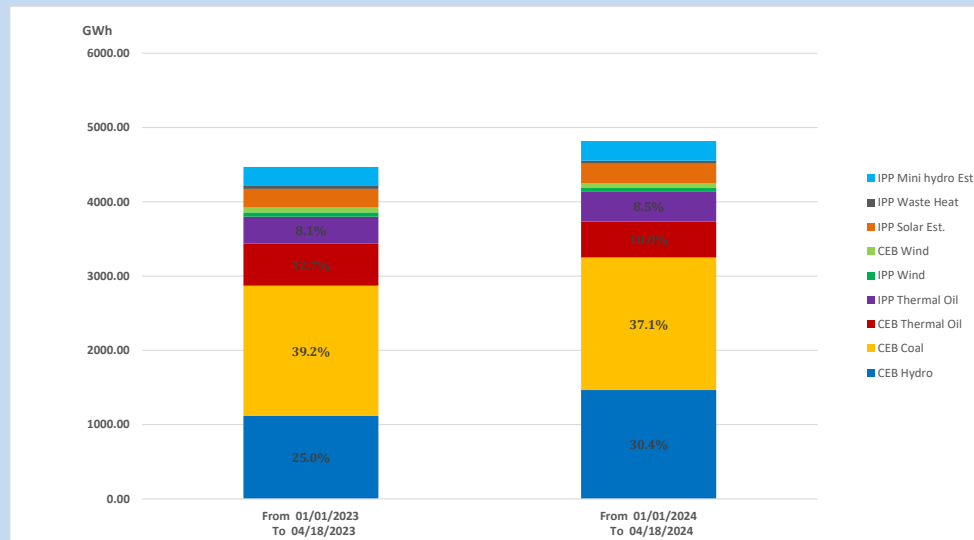
Solar Generation during

April 18, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch

From 01/01/2023 To 04/18/2023

4470 GWh

From 01/01/2024 To 04/18/2024

4819 GWh

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

Unserviced energy due to power cuts has been excluded in 2023

Thermal 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	Heavy Fuel
KCCPS -2	Auto Diesel

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

Major Incidents reported during the day

April 18, 2024

1) Samanalawewa PS unit 01 tripped at 08:57hrs rejecting 30MW from the system due to the CB fault in S'wewa unit 02 synchronizing CB. At the same time Balangoda - S'wewa cct 02, Embilipitiya - S'wewa cct 02 tripped only from S'wewa end and S'wewa 132kV B/C CB tripped causing 132kV BB 02 to be dead. Balangoda - S'wewa cct 02 and Embilipitiya - S'wewa cct 02 were normalized at 10:49hrs and S'wewa unit 01 resumed generation at 18:41hrs. S'wewa unit 02 is yet to resume generation.

2) Ragala - Ukuwela 132kV cct tripped from both ends at 15:46hrs and A/R only from Ukuwela end due to the operation of differential protection. At the same time, Pallekelle - Ragala 132kV cct tripped only from Pallekelle end due to the operation of differential protection causing Ragala GSS to be dead. Ragala - Ukuwela cct, Pallekelle - Ragala cct, and Ragala GSS all affected feeders were normalized by 16:03hrs.

3) Kelanitissa 132/33kV T/F 02 manually switched off from both ends at 21:37hrs due to tap changer oil level low alarm. Kelanitissa 132/33kV T/F 02 is yet to be restored.