

Energy Generation

Complex wise generation and energy mix

K-M Complex	5.38 GWh	11.83%	Hydro	15.39 GWh	33.87%
Mahaweli Complex	9.29 GWh	20.45%			
Samanala Complex	0.72 GWh	1.58%			
Thermal Complex	4.14 GWh	9.11%	Thermal	29.00 GWh	63.84%
Coal	11.23 GWh	24.72%			
IPP Thermal	13.64 GWh	30.02%			
Solar PV (Bulk)	0.32 GWh	0.69%	Solar(Bulk)	0.32 GWh	0.69%
Wind	0.73 GWh	1.60%	Wind	0.73 GWh	1.60%

Total Energy Generation¹ **45.43 GWh**

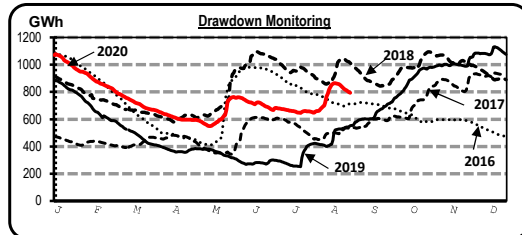
Power Generation/ Demand

Night Peak Generation at 19:00 hrs on 26-Aug-20		2507.0 MW	
Complex/Location wise contribution		Technology wise contribution of MW	
	MW	MVAr	
K-M Complex Hydro	281.3	63.9	Hydro ²
Mahaweli Complex Hydro	689.2	52.3	Thermal Coal
Samanala Hydro	154.5	26.8	Thermal Oil
CEB Small Hydro	8.7	0.0	IPP Thermal
CEB Thermal - Coal	466.2	72.2	Wind
CEB Thermal- Oil	192.0	70.5	Solar PV(Bulk)
IPP Thermal	617.2	114.9	Capacitors
IPP ² (MHP+BMP)	89.9	N/A	Total
Wind	8.0	0.0	2507.0
		479.8	
		pf - 0.98 @ 19:00 h	
Day Peak ² and Minimum ² Generation			
	MW	MVAr	
Capacitors	-	79.2	Minimum Generation ³
Total Night Peak ²	2507.0	479.8	1379.4
		-31.1	
		pf - 1.00 @ 3:15 h	
		Day peak Generation ⁴	
		2159.4	
		728.3	
		pf - 0.95 @ 16:00 h	

Hydrology- Hydro Storage, Rainfall, Inflow

Reservoir Storage status and Rainfall record of major CEB Reservoirs.

Major Reservoirs	MOL below spill (m)	Current level below spill (m)	Storage in GWh	% of the total capacity	Rainfall in mm	Location	Rainfall in mm
Castlereigh	19	1.17	79.7	84.1	11.0	Norton	3.2
Maussakalle	22.4	4.46	202.5	71.3	4.5	Canyon	8.2
Kotmale ⁵	38	6.85	102.7	71.8	0.0	Laxapana	17.0
Victoria ⁵	68	8.24	313.6	70.8	24.7	Ukuwela	0.0
Randenigala ⁴	23	14.98	30.4	28.3	22.0	Rantambe	13.5
Samanala Wewa ⁴	31	12.20	65.7	49.3	0.0	Bowatenna	0.0
Total Hydro Storage on 27-08-20 at 06:00 hrs.		794.6		65.94 %		Kukule	0.0
						Upper Koth.	47.8



Maximum Voltages :

Station	220 kV	Time	132 kV	Time
Biyagama	226	3:00	135	2:30
New Anu	228	3:00	133	2:15
Rantabe	0	0:00	136	0:00

Minimum Voltages :

Biyagama	216	11:00	132	9:00
Kotugoda	215	11:00	133	9:30
Pannipitiya	212	11:00	130	8:15
Kolonnawa			130	9:30
New Galle			124	11:00

Net system Daily Inflow GWh	21-Aug	22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	Weekly Avg.
	8.26	8.60	5.98	8.44	8.17	11.02	8.41

Major Incidents

- 1) N/Anu -Haba both ccts tripped from N/Anu end at 13:58 hrs causing Haba, valach, Polon and Naula GSS to be dead. At the same time Haba -Naula cct, Bow-Uku cct and Haba T/F 03 tripped. Haba-N/Anu cct 02 tripped and A/R from Haba end. N/Anu-Haba ccts restored at 14:15 hrs. All effected GSS energized by 14:21 hrs. Haba T/F 03 energized at 18:06 hrs.

Dhanushka Bandara
System Control Engineer

- (1) - Excluding contribution from Non Conventional Renewable Energy, other than Wind and Solar.
 (2) - Excluding contribution from Non Conventional Renewable Energy, other than Moragahakanda, Wind and Solar.
 (3) - Including data from 88 mini hydro plants(MHP) & 00 biomass plants(BMP) having total Installed Capacity of 225.35MW.
 (4) - Randenigala MOL has been revised to 209 masl from 199.5 masl and Samanlalawewa Spill level has been revised to 455 masl from 460 masl with effect from 01st Feb. 2018 considering reservoir operation restrictions.
 (5) - Percentage of the total capacity of Vict and Koth storage is calculated by considering downstream reservoir storage

DAILY GENERATION STATISTICS

26-Aug-2020

Page 2 of 2

Station	Unit	Night peak (MW)	Night peak (MVar)	Energy/Day (MWh)	Available capacity (MW) ¹	Reason if un/partially available	Outage Date	Due Date	Remarks
CEB HYDRO									
Laxapana Complex									
Wimalasurendra	1	10	2	102	25				
	2	10	1	252	25				
Old Laxapana	1	0.0	0	0	0	FO	24.08.20	-	Unit TF testing
	2	9.6	1	232	9.6				
	3	9.7	1	233	9.6				
	4	9.9	2	240	12.5				
	5	12.3	2	298	12.5				
Canyon	1	30	3	621	30				Plant availability is limited to 30 MW due to problem in headrace tunnel.
	2	0	0	0	30				
New Laxapana	1	56	19	972	58				
	2	48	20	913	50				
Polpitiya	1	43.5	9	716	45				
	2	42.6	6	797	45				
TOTAL (Laxapana)		281	64	5376	352.2				
Mahaweli Complex									
Kotmale	1	38	-1	630	67				
	2	41	-2	830	67				
	3	38	-7	750	67				
Victoria	1	78	10	1273	80				
	2	78	20	1140	80				
	3	80	14	1207	80				
Randenigala	1	41	1	22	35				
	2	39	1	97	35				
Rantambe	1	15	2	22	25				
	2	14	0	16	25				
Ukuwela	1	19	0	438	18				
	2	17	8	395	18				
Bowathenna		39	11	462	40				
Upper Kotmale	1	76	-2	944	75				
	2	76	-2	1063	75				
Nilambe		3.2	0	2	3.2				
Total (Mahaweli)		692	52	9291	790				
Samanala Complex									
Samanalawewa	1	61	14	171	60				
	2	41	0	52	40	PA	18.12.19	-	Due to operational restrictions
Kukule	1	26.2	6	311	37.5				
	2	26.7	7	79	37.5				
Inginiyagala		5.5	0	106	11.25				
Udawalawe		0	0	0	4				
TOTAL (Samanala)		160	27	719	190				
IPP MHP +BMP ²		90	0.00	N/A	N/A				
Wind		8	0.00	727	N/A				
Solar PV (Bulk)		0	0	316	N/A				
Breaker Switch Capacitors			79						
Total Hydro		1134 MW	143 MVar	15,387 MWh	1333 MW				
Total NCRE		98 MW	0.00 MVar	1,042.7 MWh	N/A				
Total Energy during 24h					45,433 MWh				
Total Night Peak					2,507.0 MW	480 MVar			
Total Available Capacity ⁽¹⁾					2,763 MW				
Abbreviations									
FO = Forced Outage									
PM = Planned Maintenance									
PA = Partially Available									

(1) Available Capacity as at 6:00hrs on 27-Aug-20

SYSTEM CONTROL ENGINEER

System Control Centre

27-Aug-20

Station	Unit	Night peak (MW)	Night peak (MVar)	Energy/Day (MWh)	Available Capacity (MW) ¹	Reason if un/partially available	Outage Date	Due Date	Remarks
CEB THERMAL									
Kelanimithissa									
KPS Gas	1	0	0	0	18				
	2	0	0	0	17				
	4	0	0	0	0	FO	17.01.17	-	Turbine vibration
	5	0	0	0	0	FO	23.01.19	-	Fire hazard inspection
	7	0	0	0	115				
KCCP GT	1	0	0	0	0	FO	14.10.19	-	GT Rotor failure
KCCP STEAM	1	0	0	0	0	PM	28.06.19	-	ST and STG major overhaul
Sapugaskanda									
Sapu. Station - A	1	16	11	324	18				
	2	0	0	0	0	PM	01.06.20	30.09.20	24000hrs maintenance
	3	0	0	0	0	FO	25.08.20	-	Air distributor breakdown
	4	0	0	0	0	PM	27.07.20	02.09.20	3000 hrs maintenance
Sapu. Station - B	5	9	4	206	9				
	6	0	0	0	0	PM	06.08.20	07.09.20	24000 hrs maintenance
	7	9	5	215	9				
	8	7	4	178	9				
	9	8	5	196	9				
	10	8	5	196	9				
	11	9	2	208	9				
	12	8	5	187	9				
Lakvijaya PS									
Lakvijaya PS	1	0	0	0	0	FO	17.08.20	-	Turbine LP side diaphragm repairing
	2	269	40	6477	270				
	3	197	32	4752	200	PA	24.08.20	-	CW pump failure
Other									
Uthuru Janani		22	0	516	23				
Power Barge		60	29	1448	60				
Sup-Thulhiriya		6.4	0	86	8.0				
Sup-Kolonnawa		15.2	0	198	16.0				
Sup-Matugama		14.4	0	180	16.0				
TOTAL (CEB Thermal)		658	143	15367	824				
IPP THERMAL									
ACE Matara		24	0	569	24				
Asia Power		39	11	704	45				
Sojitz Kelanitissa		130	1	3033	130	PA	25.08.20	-	Commercial issue as per letter SKPL/CEB/KF/110821
West Coast		276	87	6419	270				
Nothorn Power		0	0	0	0				Unavailable due to court order
ACE-Embilipitiya		89	5	2054	79				
Vpower-Pallekele		24	6	348	24				
Vpower-Galle		10	1	152	10				
Vpower-Hamba.		0	0	0	0				PPA expired at 24:00hrs on 24/08/2020
Vpower-Horana		24	4	358	24				
Altaaqa-Mahiya.		0	0	0	0				PPA expired at 24:00hrs on 24/08/2020
Altaaqa-Polon.		0	0	0	0				PPA expired at 24:00hrs on 24/08/2020
TOTAL (IPP Thermal)		617	115	13637	606				
Total Thermal									
Total Thermal		1275 MW	258 MVar	29003 MWh	1430 MW				