

Bangladesh Power Development Board
DAILY ELECTRICITY GENERATION REPORT

Office of the Member, Generation
Tel.: 9564667, 9551095

Month July, 2021		Day : Monday				Date : 05.07.21					
Probable Maximum Demand :		12500 MW		Probable Maximum Generation :		15216 MW					
Water Level of Kaptai Lake at 06:00 AM		Yesterday = 79.16 ft.		Today = 79.57 ft.		Rule Curve = 84.64 ft.					
Sl. No.	Name of Power Station	Nos. of Unit X Capacity (MW)	Installed Capacity (MW)	Rated/ Present Capacity (MW)	04.07.21 (Yesterday)		05.07.21 (Today)		Gen. shortfall for : Gas/water/Coal limitation MW	04.07.21 (Yesterday) Status of Machines under shut-down/ Maintenance	
					Actual Peak Generation (MW)		Probable Peak Generation (MW)				
					Day	Evening	Day	Evening			
(A) Plants in operation:											
1	Ghorasal Repowered CCPP Unit-3 (GT)	Gas (PDB)	1 x 210	260	260	0	0	0	0	260	Under maint.
2	a) Ghorasal Repowered CCPP Unit-4	Gas (PDB)	1 x 210	210	180	0	0	0	0	180	Under Repowering
	b) Ghorasal TPP Unit-5	Gas (PDB)	1 x 210	210	190	0	0	0	0	190	Under maint.
3	Ghorasal 365 MW CCPP Unit-7	Gas (PDB)	1x 254+1x 126	365	365	300	300	300	300		
4	Ghorasal 108MW PP (Regent)	Gas (IPP)	34x3.35	108	108	99	101	100	100		
5	Tongi 80 MW GTPP	Gas (PDB)	1 x 105	105	105	0	0	0	0	105	CB Problem
6	Hanipur GTPP	Gas (PDB)	1 x 32	32	20	0	0	0	0	20	Under Maint.
7	Hanipur 360MW CCPP(HPL)	Gas (IPP)	1x225+1x125	360	360	307	271	350	360		
8	Meghnaghat 450 MW CCPP(MPL)	Gas (IPP)	2x140+1x170	450	450	260	0	0	0	450	Gas Shortage
9	210 MW Siddhirgonj TPP	Gas (PDB)	1 x 210	210	115	0	0	0	0	115	Under Overhauling
10	Hanipur 412 MW CCPP	Gas (EGCB)	1x273+1x139	412	412	331	315	350	360		
11	Siddhirgonj 210 MW GTPP	Gas (EGCB)	2 x 105	210	210	0	0	0	0	210	Gas Shortage
12	Siddhirgonj 335 MW CCPP	Gas (EGCB)	1 x 217+1x118	335	335	150	222	220	220		
13	Siddhirgonj 100 PP(Dutch Bangla)	HFO (QRPP)	12x8.9	100	100	55	100	100	100		
14	Meghnaghat CCPP(Summit)	GAS (IPP)	2x110+1x110	305	305	290	260	300	300		
15	Madanganj-55 MW PP(Summit)	HFO (IPP)	5x17.08+1x11.3	55	55	0	45	55	55		
16	Keranganj 100 MW PP (Powerpac)	HFO (QRPP)	8x13.45	100	100	0	70	70	100		
17	Gaganagar 102 MW PP (Digital Power)	HFO (IPP)	12x8.924	102	102	40	74	100	102		
18	Narsingdi 22 MW PP (Doreen)	Gas (SIPP, PDB)	8x2.90	22	22	19	19	19	19		
19	Summit Power, (Madhabdi+Ashulia)	Gas (SIPP, PDB)	6x3.67+7x8.73	80	80	49	55	55	55		
20	Maona 33 MW PP(Summit)	Gas (SIPP, PDB)	4x8.73	33	33	33	33	33	33		
21	Rugganj 33 MW PP(Summit)	Gas (SIPP, PDB)	4x8.73	33	33	33	0	33	33		
22	Gazipur 52 MW PP	HFO (RPCL)	6x8.90	52	52	24	42	51	51		
23	Gazipur 100 MW PP	HFO (RPCL)	6x18.415	105	105	74	86	84	86		
24	Kodda 150MW PP	HFO (BPOB-RPCL)	9x17.06	149	149	32	115	150	150		
25	Katpotti 52 MW PP (Sinha)	HFO (IPP)	7x7.90	51	51	0	0	0	0		
26	Kamalghat 54 MW PP (Banco Energy)	HFO (IPP)	3x18.69	54	54	17	54	54	54		
27	Kodda 300 MW PP Unit-2 (Summit)	HFO (IPP)	18x17.076	300	300	0	178	250	290		
28	Kodda 149 MW PP Unit-1 (Summit)	HFO (IPP)	8x18.415+1x8.97	149	149	16	103	130	132		
29	Keranganj 300 MW PP (APR)	HSD (IPP)	25x6.14	300	300	0	0	100	300		
30	Bramhanganj 100 MW PP (Aggreko)	HSD (IPP)	23x0.85+91x.969	100	100	0	0	100	100		
31	Aurabai 100MW PP (Aggreko)	HSD (IPP)	23x0.85+91x.969	100	100	0	0	100	100		
32	Nabaganj 55 MW PP (Southern powe)	HFO (IPP)	3x19.3	55	55	55	55	55	55		
33	Manikgonj 55 MW PP (Northern)	HFO (IPP)	3x19.3	55	55	0	55	55	55		
34	Bosila 108MW PP(RCLC)	HFO (IPP)	12x8.775+1x3.5	108	108	0	0	0	0		
35	Meghnaghat 104 MW PP (OPSL)	HFO (IPP)	6x18.5	104	104	0	104	90	104		
36	Manikgonj 162MW PP(MPGL)	HFO (IPP)	9x18	162	162	0	98	126	126		
37	Manikgonj 35MW Solar PP (Inspectra)	Solar (IPP)	1x35	35	35	14	0	30	0		
Dhaka Zone Total				5976	5819	2198	2755	3460	3740	660	870
38	Karnaphuli Hydro PP Unit-1,2,3,4, 5	Hydro (PDB)	2x40, 3x50	230	230	27	53	55	55	177	Low Water Level
	a) Chattogram TPP-1	Gas (PDB)	1 x 210	210	180	100	100	100	100		
	b) Chattogram TPP-2	Gas (PDB)	1 x 210	210	180	0	0	0	0	180	Under maint.
40	Kaptai 7 MW Solar PP	Solar (PDB)	7	7	7	2	0	5	0		
41	Razcan 25 MW PP	HFO (RPCL)	3x8.9	25	25	0	25	25	25		
42	Teknaf 20MW PP (Solartech)	Solar (IPP)	1x20	20	20	3	0	20	0		
43	Patenga 50MW PP (Baraka)	HFO (IPP)	8x6.89	50	50	0	42	50	50		
44	Sikalbaha 105 MW PP (Baraka Sikalbah)	HFO (IPP)	6x18.415	105	105	17	85	85	105		
45	Shikalbaha Peaking GT	Gas (PDB)	1 x 150	150	150	110	110	110	115		
46	Sikalbaha 225 MW CCPP	Gas (PDB)	1 x 150+1 x 75	225	225	215	204	210	215		
47	Anwara 300 MW PP (United)	HFO (IPP)	17x17.076+ 3x8.04	300	300	0	0	200	300		
48	Judhad 100 MW Unit-1 (Acorn)	HFO (QRPP)	8x13.45	100	100	50	90	100	100		
49	Judhad 100 MW Unit-3 (Acorn)	HFO (IPP)	8x13.45	100	100	0	0	100	100		
50	Dohazari -Kalaish 100 MW Peaking	HFO (PDB)	6x17.0	102	102	0	51	68	68		
51	Hathazari 100 MW peaking PP	HFO (PDB)	11x8.9	98	98	0	0	0	0		
52	Barakunda 22 MW PP (Regent)	Gas (SIPP, PDB)	8x2.90	22	22	16	16	16	16		
*	Malancha Cig EPZ (United)	Gas	5x8.73+3x9.34			2	24	5	15		
53	Chattogram 108 MW PP (ECPV)	HFO (IPP)	16x7.00	108	108	77	83	95	97		
54	Sikalbaha 54 MW Power Plant(Jodioc Power)	HFO (IPP)	3x18.55+1x3.6	54	54	0	0	54	54		
55	Karnaphuli Power Ltd.	HFO (IPP)	6x18.41+1x6.4	110	110	17	105	110	110		
56	Judhad unit-2 (Acorn)	HFO (IPP)	8x13.6	100	100	0	100	100	100		
57	Chattogram 116 MW PP (Anlima Ener)	HFO (IPP)	6x21.06	116	116	109	109	112	112		
Chattogram Zone Total				2442	2382	745	1197	1620	1737	177	180
58	a) Ashuganj TPP Unit- 3	Gas (APSCCL)	1 x 150	150	135	80	80	80	80	55	Gas Shortage
	b) Ashuganj TPP Unit- 4	Gas (APSCCL)	1 x 150	150	129	0	0	0	0	129	Gas Shortage
	c) Ashuganj TPP Unit- 5	Gas (APSCCL)	1 x 150	150	134	0	0	0	0	134	Gas Shortage
59	Ashuganj 50 MW PP	Gas (APSCCL)	14x3.968	53	45	26	26	26	26		
60	Ashuganj 225 MW CCPP	Gas (APSCCL)	1x142+1x75	221	221	215	177	210	210		
61	Ashuganj 450 MW CCPP(South)	Gas (APSCCL)	1x360	360	360	340	300	330	350		
62	Ashuganj 450 MW CCPP(North)	Gas (APSCCL)	1x361	360	360	345	315	350	360		
63	Ashuganj 55 MW PP (Precision)	Gas (RPP)	15'4	55	55	56	57	55	55		
64	Ashuganj 195MW PP (APSCCL-United)	Gas (IPP)	20'9.73+1'16	195	195	26	26	26	26	169	Gas shortage
65	Ashuganj 51 MW PP (Midland)	Gas (IPP)	6x9.34	51	51	51	51	51	51		
66	Ashuganj 150MW PP (Midland)	HFO (IPP)	23x7.015	150	150	30	100	150	150		
67	Titas 50 MW Peaking PP	HFO (PDB)	6x8.92	52	52	0	42	0	50		
68	Chandpur 150 MW CCPP	Gas (PDB)	1X106+1x57	163	163	0	0	0	0		
69	Chandpur 200MW (Dash energy)	HFO (IPP)	12x18.415	200	200	0	120	170	200		
70	Feni 22MW PP (Doreen)	Gas (SIPP, PDB)	8x2.90	22	22	21	21	22	22		
71	Feni 11 MW PP (Doreen)	Gas (SIPP, PDB)	4x2.90	11	11	8	11	11	11		
72	Jangalia 33MW PP (Summit)	Gas (SIPP, PDB)	4x8.73	33	33	33	33	33	33		
73	Jangalia 52 MW PP (Lakdanavi)	HFO (IPP)	6x8.92	52	52	0	43	34	43		
74	Cumilla 25 MW PP (Summit)	Gas (SIPP, PDB)	3x3.67+2x6.97	25	25	6	20	21	21		
75	Daukandi 200 MW PP (B.Trac)	HSD (IPP)	9x1.4+8x1.95+1x1.99	200	200	0	0	100	200		
76	Feni 114 MW Power Plant(Lakdanavi)	HFO (IPP)	7'18.415+1'9.78	114	114	34	114	100	114		
77	Chowmahani 113 MW	HFO (IPP)	12'9.78+2'3.1	113	113	75	75	113	113		
78	Bharob 54 MW PP	HFO (IPP)	3x18.2	54	54	18	18	18	18		
**	Impopt (Tirpura)	India		160	160	120	124	148	172		
Cumilla Zone Total				3094	3034	1484	1753	2048	2305	467	0
79	RPCL 210MW CCPP	Gas (IPP)	4x35+1x70	210	202	165	160	200	200		
80	Tangail 22 MW PP (Doreen)	Gas (SIPP, PDB)	8x2.90	22	22	21	21	21	21		
81	Jamalpur 95 MW PP(Powerpac)	HFO (IPP)	12x8.924	95	95	8	8	8	8		
82	Jamalpur 115 MW PP (United)	HFO (IPP)	12x9.87	115	115	45	115	115	115		
83	Mymensingh 200 MW PP (United)	HFO (IPP)	21x9.780	200	200	8	144	175	200		
84	Sarishabari 3 MW Solar Plant	Solar (IPP)	1x3	3	3	2	0	1.6	0		
85	Sulakhali 50 MW Solar PP	Solar (IPP)	1x50	50	50	39	0	50	0		
86	Tangail 22 MW PP(PPLCL)	HFO (IPP)	4x6.7	22	22	0	21	22	22		
Mymensingh Zone Total				717	709	288	469	593	566	0	0

Sl. No.	Name of Power Station		Nos. of Unit X Capacity (MW)	Installed Capacity (MW)	Derated/ Present Capacity (MW)	04.07.21 (Yesterday)		05.07.21 (Today)		04.07.21 (Yesterday)		Status of Machines under shut-down/ Maintenance	
						Actual Peak Generation (MW)		Probable Peak Generation (MW)		Gen. shortfall for :		Description/ Remarks	Probable start-up date
						Day	Evening	Day	Evening	Gas/water/Coal limitation MW	Machines shut down (MW)		
87	Fenchugonj CCPP Phase-1	Gas (PDB)	2x32+1x33	97	70	43	0	43	43			Under maint.	
88	Fenchugonj CCPP Phase-2	Gas (PDB)	2x35+1x35	104	90	0	0	42	42			Under maint.	
89	Fenchugonj 51 MW PP (Barakatullah)	Gas (RPP)	19x2.90	51	51	42	53	51	51				
90	Kushiana 163 MW CCPP (KP)	Gas (IPP)	1x109+1x54	163	163	0	0	0	0				
91	Hobiganj 11MW PP Confidence-E	Gas (SIPP, REB)	4x2.90	11	11	5	11	11	11				
92	Shahjibazar GTTP Unit- 8 & 9	Gas (PDB)	2x35	70	66	50	62	62	63				
93	Shahjibazar 330 MW CCPP	Gas (PDB)	2x110+1x110	330	330	110	110	110	110				
94	Shahjibazar 86MW PP (Shahjibazar)	Gas (RPP)	32x2.90	86	86	84	81	84	84				
95	Sylhet 225 MW CCPP	Gas (PDB)	1x142+1x89	231	231	220	218	225	225				
96	Sylhet 20 MW GTTP	Gas (PDB)	1 x 20	20	20	18	18	18	18				
97	Sylhet 10MW PP (Desh)	Gas (RPP)	6x1.95	10	10	5	10	10	10				
98	Shahjahanulla 25 MW PP	Gas (CIPP, REB)	3x9.34	25	25	14	0	16	16				
99	Bitiana-II 341 MW CCPP (Summit)	Gas (IPP)	1x222+1x119	341	341	310	280	315	341				
100	Bitiyana-III 400 MW CCPP	Gas (PDB)	1x285+1x115	400	400	403	401	400	400				
101	Bitiyana South 383 MW CCPP	Gas (PDB)	1x252+1x131	383	383	397	401	400	400				
102	Shahjibazar 100 MW GTTP	Gas (PDB)	1x100	100	100	0	0	0	0				
Sylhet Zone Total				2422	2377	1701	1645	1787	1814	0	160		
103	Bheramara GTTP Unit- 3	HSD (PDB)	1 x 20	20	16	0	0	0	0				
104	Bheramara 410 MW CCPP	Gas (NWPGL)	1 x 278+1 x 132	410	410	350	360	350	380				
105	Fandpur 50 MW Peaking PP	HFO (PDB)	8x6.98	54	54	0	0	20	20				
106	Copalganj 100 MW Peaking PP	HFO (PDB)	16x6.98	109	109	0	0	60	60				
107	Khulna 225 MW CCPP	HSD (NWPGL)	1 x 159+1x75	230	230	0	0	0	220				
108	Noapara 100 MW PP (Bangla Trac)	HSD (IPP)	70x1.4+7x1.5+15	100	100	0	100	50	100				
109	Rupsha 105 MW PP (Orion rupsha)	HFO (IPP)	6x18.445	105	105	0	90	90	90				
110	Madhumati 100 MW PP	HFO (NWPGL)	6x18.415	105	105	0	0	100	100				
** Bheramara (HVDC) India				1000	1000	791	792	809	809				
Khulna Zone Total				2133	2129	1141	1342	1479	1779	0	0		
111	Barisal 110 MW PP (Summit)	HFO (IPP)	7 x 17.076	110	110	0	0	110	110				
112	Bhola 33 MW PP (Venture)	Gas (RPP)	1x34.50	33	33	19	32	25	33				
113	Bhola 225 MW CCPP	Gas (PDB)	2x63+1x68	194	194	86	84	85	86			110	GT-2 & STG Under
114	Bhola 95 MW PP (Aggregate)	Gas (QRPP)	1.1x96	95	95	11	11	11	11				
115	Payra 1320 MW TPP	Coal (BCPCL)	2x622	1244	1244	360	510	622	622				
116	Potukhali 150MW PP (UPPL)	HFO (IPP)	8x18.415+1x9.78	150	150	0	0	0	110				
Bhola Nutan Biddut BD LTD						182	221	220	220				
Barishal Zone Total				1826	1826	658	858	1073	1192	0	110		
117	a) Baghabari 71 MW GTTP	Gas (PDB)	1 x 71	71	71	65	70	60	60				
	b) Baghabari 100 MW GTTP	Gas (PDB)	1 x 100	100	100	75	0	80	80			100	Gas Shortage
118	Baghabari 50 MW Peaking PP	HFO (PDB)	6x8.9	52	52	25	50	0	50				
119	Baghabari 200 MW PP (Paramount)	HSD (IPP)	135x1.6	200	200	0	0	200	200				
120	Bera 70 MW Peaking PP	HFO (PDB)	9x8.29	71	71	0	40	0	43				
121	Amnura 50 MW PP(Sinha)	HFO (QRPP)	7x7.79	50	50	0	35	35	35				
122	Chapainawabganj 100 MW Peaking PI	HFO (PDB)	12x8.924	104	104	54	95	0	95				
123	Katakhal 50 MW Peaking PP	HFO (PDB)	6x8.7	50	50	30	23	0	40				
124	Katakhal 50 MW PP (Northern)	HFO (QRPP)	6x8.9	50	50	0	24	50	50				
125	Santahar 50 MW Peaking PP	HFO (PDB)	6x8.7	50	50	0	23	0	40				
126	Sirajgonj 225MW CCPP Unit-1	Gas (NWPGL)	1x150+1x75	210	210	0	0	0	150				Gas Shortage, STG S/D
127	Sirajgonj 225MW CCPP Unit-2	Gas (NWPGL)	1x150+1x75	220	220	181	191	200	200				
128	Sirajgonj 225MW CCPP Unit-3	Gas (NWPGL)	1x141+1x79	220	220	180	185	200	200				
129	Sirajgonj 400 MW CCPP Unit-4	Gas (IPP)	1x282+1x132	414	414	393	404	400	400				
130	Bogra 22 MW PP (CBB)	Gas (RPP)	6x4.0	22	22	18	18	18	18				
131	Lullipara 11 MW PP (Summit)	Gas (SIPP, REB)	4x2.90	11	11	8	10	11	11				
132	Natore 52 MW PP (Rajlanka)	HFO (IPP)	6x8.92	52	52	52	52	52	52				
133	Bagura 113 MW PP (Confidence) Unit-1	HFO (IPP)	6'18.55	113	113	0	90	113	113				
134	Bagura 113 MW PP (Confidence) Unit-2	HFO (IPP)	6'18.55	113	113	0	112	113	113				
135	Sirajgonj 6.55 MW Solar	Solar (NWPGL)	1x6	6	6	4	0	6	0				
Rajshahi Zone Total				2179	2179	1085	1422	1538	1800	250	0		
136	a) Barapukuria TPP Unit-1	Coal (PDB)	1 x 125	125	85	0	0	0	85				Coal Shortage
	b) Barapukuria TPP Unit-2	Coal (PDB)	1 x 125	125	85	0	0	0	85				Coal Shortage
137	Barapukuria 275 MW TPP Unit-3	Coal (PDB)	1 x 274	274	274	150	150	150	150			124	Coal Shortage
138	Rangpur 20 MW GTTP	HSD (PDB)	1 x 20	20	20	0	0	0	10				
139	Rangpur 113 MW PP (Confidence)	HFO (IPP)	7'16x 2'3	113	113	0	113	113	113				
140	Saidpur 20 MW GTTP	HSD (PDB)	1 x 20	20	20	0	0	0	10				
141	Maipara, Tutula 8 MW Solar PP (Sympa Power)	Solar (IPP)	1 x 8	8	8	3	0	8	0				
Rangpur Zone Total				685	605	153	263	271	283	294	0		
Sub-total: Plants in operation				21474	21060	9453.0	11704	13869	15216	1868	1320		
Available Power at Sub-station end excluding P/S auxiliary use and Transmission loss						9117	11288	13376	14675				
(B) Plants under long term maintenance/ contract expired													
142	Ghorashal 78.5 MW PP(MAX)	Gas (QRPP)	2x40	78	0	0	0	0	0				Contract Expired on 08/01/2021
143	Madanganj 102 PP(Summit)	HFO (QRPP)	6x17	102	0	0	0	0	0				
144	Fenchugonj 44MW (Energyprima)	Gas (RPP)	12x3.3+5x2.0	44	0	0	0	0	0				Contract Expired on 14/02/2021
145	Sylhet 50MW PP (EPL)	Gas (RPP)	27x2.0	50	0	0	0	0	0				Contract Expired on 04/01/2020
146	Bogra 20 MW PP (Energyprima)	Gas (RPP)	5x3.3+5x2.0	20	0	0	0	0	0				Contract Expired on 12/11/2020
147	Meghnaghat 100 MW(IEI)	HFO (QRPP)	12x8.9	100	0	0	0	0	0				Contract Expired on 07/05/2021
148	Khulna 115 MW PP (KPCL-2)	HFO (QRPP)	7x17	115	0	0	0	0	0				Contract Expired on 31/05/2021
149	Noapara 40 MW PP (Khanjahan Ali)	HFO (QRPP)	5x8.5	40	0	0	0	0	0				Contract Expired on 28/05/2021
Sub-Total: Plants under long term maintenance/ contract expired				549	0	0	0	0	0				
Gross Total				22023	21060	9453	11704	13869	15216	1868	1320		
(C) Actual data of 04.07.21 (Yesterday) Sunday :													
01.	Max. Demand at eve. peak (Generation end)	: 11704.00 MW, at = 21:00 hrs		12. Zone wise Demand and Load-shed at Evening Peak (Sub-station end) :		Demand		Supply		Load Shed		Zone	
02.	Max. Demand at eve. peak (Sub-station end)	: 11288.00 MW, at = 21:00 hrs		Dhaka		3890		0		Mymensingh		1006	
03.	Highest Generation (Generation end)	: 11704.00 MW, at = 21:00 hrs		Chattogram		1104		1104		0		Sylhet	
04.	Minimum Generation (Generation end)	: 8335.00 MW, at = 7:00 hrs		Khulna		1389		1389		0		Barishal	
05.	Day-peak Generation (Generation end)	: 9453.00 MW, at = 12:00 hrs		Rajshahi		1268		1268		0		Rangpur	
06.	Evening-peak Generation (Generation end)	: 11704.00 MW, at = 21:00 hrs		Cumilla		1068		0		0		Total	
07.	Evening Peak Load-shed (Sub-station end)	: 0.00 MW, at = 21:00 hrs										11288	
08.	Minimum Generation Forecast up to 8:00 hrs.	: 8654.00 MW, at = 5:00 hrs										11288	
09.	Generation shortfall at evening peak due to :											11288	
	a) Gas limitation	: 1397 MW										11288	
	b) Low water level in Kaptai lake	: 177 MW										11288	
	c) Plants under shut down/ maintenance	: 1320 MW										11288	
10.	Total Energy (Generation + India Import)	: 238.29 MKWh										11288	
	By Gas = 159.288 MKWh	By Oil = 42.239 MKWh										11288	
	By Coal = 13.883 MKWh	By Hydro = 0.866 MKWh										11288	
	By Solar = 0.480 MKWh											11288	
11.	Total Gas Supplied	: 1204.83 MMCFD										11288	
(D) Forecast of 05.07.21 (Today) Monday :													
01.	Maximum Demand	: 12500 MW (Generation end)		04. Maximum Load-shed		: 0 MW		At evening peak (Sub-station end)					
02.	Maximum Generation	: 15216 MW (Generation end)		05. Total Generation		: 254.49 MKWh							
03.	Maximum Shortage	: -2716 MW (Generation end)		06. Probable Max. Temperature in Dhaka		: 33.1° C							

#Remarks: Highest Generation 13792 MW on 27-04-2021 at 20:00

(Fazoul Islam Shaker)
Deputy Secretary, Generation