

Daily System Generation Summary on Sunday

Sunday, June 02, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,517 MW
Distillate	0 MW
Total TNB	2,517 MW
Total IPP	15,783 MW
Total Co-Gen	40 MW
Total System	21,419 MW

Generation Mix

Type	MWh	Percentage
Hydro	6,252	1.97 %
Gas	37,892	11.91 %
Total TNB	44,144	13.88 %
ST-Coal	182,166	57.26 %
LSS	1,693	0.53 %
Gas	89,149	28.02 %
Total IPP	273,008	85.81 %
Co-Gen	1,376	0.43 %
Total Co-Gen	1,376	0.43 %
Total Generation	318,528	100.12 %
PLTG	-353	-0.11 %
HVDC	727	0.23 %
Interconnection	374	0.12 %
Net Energy	318,154	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:00:00 Hour
Total Set On Bus	16,353 MW
TNB Generation	2,184 MW
IPP Generation	12,434 MW
Spinning Reserve	1,676 MW
Maximum Demand	14,700 MW
Net Energy	318,154 MWH
Load Factor	90.18 %

Fuel Cost

Total Cost:	58,661,804.36 RM
Cost per Unit	18.42 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	351
Hydro	220
Syncon	1,056
Thermal	209
Total	1,836

Time Weather Temperature

Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmcsfd)
GLGR	52
TJGS	217
Total TNB	269
CBPS	6
KLPP	95
NPRI	153
PGLA	110
PLPS	71
PTEK	1
SGRI	49
SKSP	14
YPKA	43
Total IPP	542
Total Gas	811
Total Gas Required	811

Alternate Fuel Usage

Station	(mmcsfd)
Total	0

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	14467	13904	13487	13064	12786	12743	12379	11963	11357	11915	12606	13048	12956	13060	13297	13614	13609	13492	13336	13499	14304	14700	14611	14371

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, June 24, 2019 10:43:53 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Sunday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300		
JMAH	U001	692	693	689	694	691	692	691	693	691	692	690	691	691	692	694	692	695	691	692	691	693	692	691	692	692	
JMAH	U002	695	696	692	695	693	693	695	694	693	695	695	694	694	694	694	696	694	693	694	695	694	691	694	692	694	
JMJG	U001	673	673	673	671	672	674	677	672	672	671	672	671	672	674	673	670	670	674	671	673	673	671	673	673	682	
JMJG	U002	671	668	667	662	673	667	666	668	671	672	671	674	672	673	671	672	674	675	669	667	673	672	671	676	671	
JMJG	U003	662	663	673	665	667	663	662	663	662	663	662	665	662	666	662	663	664	663	662	662	662	659	661	664	664	
JMJG	U004	937	936	850	796	785	785	783	782	785	785	783	785	782	783	785	786	785	786	785	840	863	862	862	859	864	
JMJG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U003	285	284	283	284	285	282	282	283	284	285	283	284	285	285	285	285	285	286	287	288	287	285	283	283	281	
PKLG	U004	282	282	282	283	282	278	278	279	281	280	282	281	283	281	282	287	283	280	280	280	280	280	280	280	277	
PKLG	U005	470	470	470	471	471	471	468	470	468	472	472	470	470	470	470	469	469	469	468	470	469	468	471	470	470	
PKLG	U006	0	28	43	49	79	85	86	99	110	140	149	150	166	165	165	165	165	166	166	166	164	165	166	168	165	
TBIN	U001	692	693	691	689	690	691	686	693	691	690	689	690	693	693	692	689	690	691	690	688	690	692	691	688	690	
TBIN	U002	694	692	695	695	694	695	693	693	695	696	695	694	694	693	693	693	694	694	696	696	694	693	694	696	693	
TBIN	U003	692	693	692	692	692	694	691	692	690	692	692	693	690	690	690	690	691	689	693	693	690	691	692	692	693	
Total ST-Coal		7445	7471	7400	7346	7374	7370	7358	7381	7393	7433	7438	7440	7455	7458	7455	7454	7454	7574	7456	7453	7465	7450	7508	7536	7534	
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CBPS	BLK2	360	358	362	362	361	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT01	104	103	104	103	79	73	73	73	73	71	72	71	73	72	72	72	73	73	73	99	98	99	82	87	87	
GLGR	GT02	105	105	105	105	80	75	74	74	74	74	75	74	75	75	75	75	74	75	75	102	101	101	85	90	89	
GLGR	ST1C	91	91	92	91	81	74	75	75	75	75	75	75	75	75	74	75	75	88	89	89	82	85	83	84	81	
KLPP	GT13	135	124	133	111	0	0	0	0	0	0	0	0	0	0	0	0	21	59	132	132	136	137	137	128	138	
KLPP	GT14	143	134	142	123	141	141	115	115	115	120	123	76	77	77	76	78	77	77	76	77	144	141	140	142	142	
KLPP	GT15	145	131	143	127	134	132	121	116	112	119	115	115	74	74	75	76	74	76	141	146	146	142	140	149	149	
KLPP	ST17	193	189	193	189	149	129	117	118	118	117	118	101	101	85	85	83	83	87	87	84	129	129	129	194	194	
NPRI	BLK1	510	502	511	504	508	505	511	508	511	506	506	499	499	509	503	367	328	406	502	503	506	506	505	503	499	
NPRI	BLK2	512	503	512	505	509	508	512	510	512	507	507	500	502	511	505	368	325	403	514	505	508	506	507	505	500	
PCGP	PGRG	604	597	603	597	602	599	603	599	601	600	598	595	597	598	597	595	597	603	602	602	601	598	601	602	604	
PGLA	GT11	206	199	218	211	211	198	217	193	193	207	210	201	170	211	170	181	169	180	219	190	218	181	205	210	215	
PGLA	GT12	212	205	222	214	213	202	222	197	197	210	214	206	171	217	172	169	172	184	174	184	222	195	222	188	208	
PGLA	ST10	237	228	233	226	233	225	232	230	227	238	231	232	204	234	205	205	207	208	219	207	232	222	236	210	239	
PLPS	GT11	126	113	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	142		
PLPS	GT12	130	117	117	115	143	140	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	124	110	110	103	131	128	108	123	123	124	124	123	123	124	123	124	124	142	141	141	139	139	136	137	141	
PLPS	ST18	208	198	181	131	143	144	133	59	59	58	59	58	58	58	58	58	58	58	59	59	59	58	60	58	145	
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT13	132	133	133	133	104	99	103	103	103	103	103	103	100	102	102	103	103	103	103	106	102	130	127	104	103	
SGRI	ST14	74	74	74	74	63	64	64	64	64	65	63	64	63	64	64	64	64	64	66	66	63	65	73	72	64	
SKSP	BLK1	323	262	271	238	328	277	333	250	221	315	310	277	217	97	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	227	226	226	227	227	229	225	227	227	226	226	221	224	233	192	135	141	150	198	235	236	225	231	218	211	
TJGS	GT1B	217	214	212	211	216	213	215	215	212	214	215	213	211	217	179	126	129	130	188	215	217	214	211	211	201	
TJGS	ST1C	244	244	247	247	247	247	247	247	243	243	243	243	243	224	180	180	180	200	229	241	242	246	234	242	244	
TJGS	GT2A	214	214	214	214	214	214	214	214	214	214	214	214	221	187	148	147	147	147	208	210	210	210	210	210	209	
TJGS	GT2B	209	209	209	209	209	209	209	209	209	209	208	211	211	211	216	185	144	144	144	145	205	208	206	206	206	
TJGS	ST2C	259	259	259	259	259	259	259	259	259	259	259	259	259	259	240	213	213	210	210	254	254	254	254	257	257	
YPKA	GT11	128	126	127	127	98	128	130	129	130	128	129	64	65	65	65	65	65	65	65	66	127	128	124	123	70	

Daily MW Generation on Sunday

Station	Unit	0000		0100		0200		0300		0400		0500		0600		0700		0800		0900		1000		1100		1200		1300		1400		1500		1600		1700		1800		1900		2000		2100		2200		2300	
YPKA	GT12	130	128	131	129	99	129	130	129	131	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	63	102	130	133	132	131	131	130	131	108	
YPKA	ST10	125	123	124	123	103	124	125	124	124	56	55	33	33	33	33	33	34	34	33	34	56	57	54	54	36	54	55	54	56	56	56	55	55	55	55	55	55	90	76	101	117	125	125	125	124	124	124	76
Total CCGT-Gas		6427	6219	6259	6008	5885	5465	5486	5160	5127	5156	5054	4829	4679	4669	4262	3725	3655	3857	4176	4436	4743	4847	5000	4997	4976	4991	5077	5178	5259	5334	5394	5241	5418	5496	5476	5390	5381	5422	5492	5729	6105	6159	6234	6212	6141	5955	5982	5777
PT EK	GT2B	105	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total OCGT-Gas		105	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
BSIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11			
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
KNRG	HY01	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	20	21	0	0	0	20	20	20	0	0	0	0	0	0	0	24	24	34	34	34	22	0	0		
KNRG	HY02	21	20	21	21	21	21	21	21	21	21	21	20	20	21	21	20	21	21	21	21	21	21	21	20	20	21	21	21	22	22	22	21	20	21	21	21	21	21	21	20	21	36	36	36	23	25	25	
KNRG	HY03	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	22	35	35	35	35	21	0	0	
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KNYR	HY02	59	58	58	58	60	58	60	58	57	60	59	58	58	58	56	58	59	59	58	60	60	62	61	61	61	61	61	61	61	61	64	61	60	60	60	60	58	58	60	60	61	61	60	60	59	59	59	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
LPIA	HY02	16	16	16	16	16	16	17	17	16	16	16	16	16	16	16	16	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	4	4	3	3	3	3	5	5	5	5	3	3	3	3	3	3	5	5	6	6	7	7	7	7	
PGAU	HY01	21	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
SIHY	HY01	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	30	30	30	0	0	0	0	0	0	31	31	48	49	49	49	49	49	49	
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	0	0	0	0	0	30	30	30	0	0	0	0	0	0	30	30	50	50	50	50	50	50	50	
SIHY	HY03	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	49		
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	
SYPS	HY02	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25
SYPS	HY04	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	25	25	25		
TMGR	HY01	34	33	34	33	33	33	34	34	34	34	34	33	32	34	33	32	33	34	34	34	34	34	34	34	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	33	34	34	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UPIA	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
Total Hydro		385	225	186	185	187	185	189	187	185	188	187	184	183	186	207	181	185	187	187	186	188	244	290	256	234	229	185	185	186	186	271	360	265	216	168	168	168	166	166	307	311	525	527	526	527	464	424	423
Total Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	6	12	17	20	23	21	24	18	16	21	26	23	16	22	18	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	3	5	11	16	20	20	25	23	27	34	38	34	40	37	10	9	4	3	6	3	2	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	15	22	22	22	15	15	15	22	22	22	22	24	24	12	12	4	4	1	1	0	0	0	0	0	0	0	0	0
GNLS	LSS1	0	0	0																																													

Daily MW Generation on Sunday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																									
Total Gen		14429	14030	13904	13595	13503	13077	13087	12782	12763	12832	12731	12507	12371	12368	11979	11422	11376	11721	11947	12228	12594	12773	13045	13036	13016	13037	13088	13251	13327	13421	13617	13577	13662	13633	13541	13435	13394	13444	13505	13947	14309	14578	14677	14676	14623	14358	14361	14150	
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIE-HVDC		30	30	30	31	31	30	30	30	30	30	29	29	30	30	31	31	31	31	31	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	30	30	31	31	30	30	30	30
TIE-PLTG		-68	-21	-30	-30	-14	-16	-7	-21	-53	13	-42	-12	-37	-28	-14	-21	-11	-15	1	2	-42	-19	-33	-16	30	-19	-2	-19	0	-46	-27	36	23	22	18	28	27	11	-24	-11	-26	-2	-53	-9	-18	-33	-40	-37	
Interconnection		-38	9	0	1	16	14	23	9	-23	43	-12	17	-8	2	16	9	19	16	32	32	-12	11	-3	15	60	11	28	11	30	-16	3	67	53	52	49	58	58	41	6	20	5	29	-23	22	12	-3	-10	-6	
System Total		14467	14021	13904	13594	13487	13063	13064	12773	12786	12789	12743	12490	12379	12366	11963	11413	11357	11705	11915	12196	12606	12762	13048	13021	12956	13026	13060	13240	13297	13437	13614	13510	13609	13581	13492	13377	13336	13403	13499	13927	14304	14549	14700	14654	14611	14361	14371	14156	
SRev ST-Coal		98	107	178	189	180	206	219	198	211	171	167	164	209	206	209	207	210	140	208	209	200	214	210	206	207	204	205	250	192	277	191	199	199	203	294	267	279	249	198	170	190	212	222	199	182	203	188	194	
SRev OCGT-Gas		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		339	547	507	615	516	489	468	651	607	578	550	710	860	671	930	1467	1537	1335	1016	756	449	345	345	420	441	426	340	382	373	298	238	391	431	353	373	459	468	697	768	674	374	320	245	267	338	524	354	559	
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		-27	-17	-19	-16	-17	-17	-14	-14	-18	-15	-12	-14	-14	-15	-15	-15	-13	-14	-17	-15	-19	-19	-17	-19	-15	-17	-16	-17	-15	-17	-18	-18	-19	-19	-19	-18	-19	-20	-22	-18	-20	-18	-19	-18	-18	-19	-20	-21	
Syncon		964	964	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	1115	964	964	964	964	1115	1115	1115		
Hydro		356	287	150	151	149	151	147	149	151	148	149	152	153	150	280	155	151	149	149	150	148	191	225	209	191	297	151	151	150	150	204	302	210	170	143	143	143	145	145	233	229	266	264	265	264	176	137	138	
S.Reserve Total		1734	1888	1931	2054	1943	1944	1935	2099	2066	1997	1969	2127	2323	2127	2368	2929	3000	2725	2471	2215	1893	1846	1878	1931	1939	1874	1794	1881	1815	1823	1730	1802	1936	1822	1906	1966	1986	2186	2204	2174	1888	1744	1676	1677	1730	1999	1774	1985	