

Daily System Generation Summary on Thursday

Thursday, November 3, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,186 MW
Distillate	0 MW
Total TNB	2,186 MW
Total IPP	17,891 MW
Total Co-Gen	0 MW
Total System	23,618 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,505	5.55 %
Gas	48,123	13.02 %
Total TNB	68,628	18.56 %
ST-Coal	207,341	56.08 %
LSS	4,904	1.33 %
Gas	87,556	23.68 %
Total IPP	299,801	81.09 %
Co-Gen	591	0.16 %
Total Co-Gen	591	0.16 %
Total Generation	369,020	99.81 %
PLTG	368	0.10 %
HVDC	-1,060	-0.29 %
Interconnection	-692	-0.19 %
Net Energy	369,712	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,945 MW
TNB Generation	4,308 MW
IPP Generation	13,100 MW
Spinning Reserve	1,512 MW
Maximum Demand	17,429 MW
Net Energy	369,712 MWH
Load Factor	88.39 %

Fuel Cost

Total Cost:	127,297,008.98 RM
Cost per Unit	35.28 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	905
Hydro	257
Syncon	505
Thermal	127
Total	1,794

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmcsfd)
GLGR	29
TJGS	147
Total TNB	176
CBPS	47
EMPP	274
KLPP	26
NPRI	68
PCGP	66
PGLA	66
PLPS	37
SPGP	152
Total IPP	737
Total Gas	913
Total Gas Required	913

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	14790	13983	13611	13216	12850	12719	13192	13159	13613	15277	16118	16630	16498	16239	16997	17419	17393	17090	16154	16677	17053	16731	16214	15756

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 5, 2022 3:04:36 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	U002	704	705	704	706	705	706	704	707	702	705	705	706	700	704	700	705	703	705	709	702	704	703	704	703	707	705	706	703	713	716	704	706	705	708	702	711	704	705	700	704	707								
JMHE	U001	977	923	900	902	852	853	851	849	851	849	850	850	849	850	849	851	850	945	973	976	973	978	975	976	974	976	975	976	980	980	976	981	978	981	981	979	980	977	986	980	979	979	978	981	981	980	978	978	
JMHE	U002	979	929	902	900	852	847	848	850	848	847	850	851	848	850	850	853	849	934	970	977	974	980	980	979	978	980	980	981	981	981	974	975	973	974	974	972	977	974	979	976	973	969	972	974	978	981	980	977	980
JMJG	U001	669	669	666	667	678	668	667	669	665	665	668	667	666	668	626	588	579	578	579	579	579	576	576	603	686	678	682	682	687	682	682	683	685	682	676	675	673	673	673	671	676	671	672	672	673	671	667	668	
JMJG	U002	674	674	677	672	677	676	674	676	674	672	678	677	673	675	673	675	674	678	673	675	672	673	675	673	672	675	677	671	676	673	674	673	672	678	673	673	676	673	677	673	674	672	670	678	672	677	678	673	
JMJG	U003	677	671	672	670	672	673	671	671	672	672	671	670	670	681	667	665	673	671	671	671	679	662	673	670	674	668	672	672	670	673	671	668	670	670	667	674	669	672	671	672	670	670	667	672	682	668	671	671	
JMJG	U004	974	966	908	902	867	854	854	853	855	856	854	854	854	853	854	852	853	913	967	973	972	971	973	973	972	971	975	975	972	972	972	969	969	972	970	969	968	972	969	970	970	972	973	972	973	972	974	975	
JMJG	U005	977	960	900	900	848	847	852	850	851	848	853	849	849	853	848	854	854	972	976	981	982	982	979	978	981	980	978	980	978	871	801	796	804	801	800	801	800	804	804	800	800	801	801	803	800	800	896		
PKLG	U003	207	206	208	215	242	262	193	200	207	204	207	207	206	207	207	207	206	207	206	209	229	276	280	282	290	289	290	290	290	290	291	290	290	290	278	278	280	281	279	282	278	279	279	283	279	279	280		
PKLG	U004	274	271	273	275	272	273	261	177	147	144	151	150	150	162	247	275	274	273	274	273	270	281	281	277	278	285	288	290	286	281	289	285	288	273	271	286	275	275	278	280	278	278	274	272	276	276	276	281	
PKLG	U005	145	141	142	144	149	151	151	152	150	152	151	151	152	151	150	151	152	150	153	151	151	151	151	151	152	152	151	151	152	152	152	150	150	150	150	150	152	152	150	152	150	152	150	150	150	150			
PKLG	U006	449	450	451	448	453	449	429	356	270	267	269	269	291	375	440	449	446	446	445	445	447	448	448	446	446	443	449	450	450	448	448	449	448	449	449	449	449	449	457	453	448	448	449	450	450				
TBIN	U002	701	702	697	701	699	701	699	499	236	212	213	212	210	212	211	219	342	540	703	700	702	700	702	701	702	702	697	701	705	703	704	705	701	703	702	702	698	703	703	701	706	700	706	699	701	705	702	700	
TBIN	U003	700	699	700	700	697	702	697	701	701	709	699	698	696	698	697	697	698	699	699	613	454	456	456	455	454	454	455	455	454	455	456	454	455	454	454	454	456	454	456	455	455	454	454	454	454	456	510		
Total ST-Coal		9107	8966	8800	8802	8663	8662	8551	8210	7829	7802	7819	7811	7814	7939	8019	8041	8153	8711	8998	8925	8788	8837	8853	8865	8962	8959	8974	8981	8988	8866	8792	8787	8788	8771	8749	8775	8766	8758	8782	8761	8772	8752	8762	8758	8779	8762	8762	8919	
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CBPS	BLK2	200	201	201	202	202	197	198	202	206	207	201	204	210	218	201	201	377	377	376	374	371	370	368	368	369	365	363	361	355	363	361	361	357	362	357	361	303	302	366	364	358	356	356	357	352	300	232	197	
EMPP	BLK1	419	411	410	411	411	407	409	417	434	433	416	429	446	454	408	411	410	493	565	696	712	712	708	695	679	710	709	709	688	711	710	710	708	712	707	710	541	702	725	713	696	690	690	695	681	711	693	408	
EMPP	BLK2	676	411	410	410	410	407	409	416	434	433	413	429	440	448	409	411	410	500	564	695	709	711	708	695	680	711	709	709	689	710	709	710	708	711	707	711	669	708	725	713	694	690	690	693	682	710	693	689	
EMPP	BLK3	681	619	412	429	411	407	409	474	530	538	475	473	716	733	679	605	474	656	710	710	709	712	709	696	671	710	709	709	689	710	709	709	707	711	706	709	699	708	725	713	696	690	691	693	680	711	693	687	
GLGR	GT01	94	92	94	92	92	91	92	94	94	93	92	93	94	93	92	93	93	93	94	93	92	94	93	92	95	94	94	92	93	92	93	92	92	94	93	95	93	92	93	93	94	93	93	93	93	92			
GLGR	ST1C	41	40	40	41	40	40	41	41	41	41	41	41	41	41	41	41	41	41	40	42	42	41	41	41	43	41	41	40	42	42	42	41	41	40	41	41	40	41	41	40	42	41	41	40	40	40			
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	144	115	115	115	115	115	108	108	103	108	108	108	108	108	108	108	108	108	110	110	110	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	112	112	111	112	112	119	119	73	75	75	74	74	77	79	78	79	79	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	
KLPP	ST17	59	59	59	58	59	61	61	42	42	43	43	42	47	45	46	43	121	65	66	66	66	66	59	58	58	59	58	58	58	58	59	59	58	59	58	60	59	0	0	0	0	0	0	0	0	0	0	0	
NPRI	BLK2	311	313	311	312	311	307	301	311	315	317	310	313	321	329	308	310	306	312	308	309	518	520	517	515	418	520	380	518	509	521	517	518	512	518	511	519	514	516	527	520	512	510	507	512	504	515	511	422	
PCGP	PGRG	600	603	604	402	403	397	398	407	415	418	403	409	424	443	400	401	402	250	253	251	253	254	252	250	240	253	250	249	249	256	252	251	248	257	589	602	604	603	632	615	594	589	588	592	577	599	588	591	
PGLA	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	0	0	0	121	122	164	149	217	138	155	151	154	153	154	178	211	207	179	135	135	135	159	158	
PGLA	GT12	163	160	160	160	159	159	158	161	163	165	161	163	165	169	160	161	161	161	160	160	160	161	199	180	157	166	166	166	164	147	216	139	138	154	150	153	153	177	210	207	179	135	135	135	135	135	136		
PGLA	ST10	81	87	87	88	87	87	87	87	87	87	87	87	88	89	87	86	87	87	87	87	88	88	101	108	88	89	84	114	214	183	241	181	183	193	190	191	189	191	207	231	228	215	181	181	181	181	80		
PLPS	GT11	129	128	128																																														

Daily MW Generation on Thursday

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
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	37	37	36	36	36	25	25	25	25	25	25	25	25	25	25	25	36	36	36	36	36	36	35	35
KNRG	HY02	37	37	38	38	38	25	26	26	26	25	25	25	25	25	25	25	38	37	37	37	37	37	37	38
KNRG	HY03	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14	32	32	47	47	38	7	23
KNYR	HY01	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
KNYR	HY02	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103
KNYR	HY03	100	100	100	99	98	98	97	97	97	98	98	99	99	99	98	98	99	99	99	99	98	98	97	96
KNYR	HY04	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
LPIA	HY01	22	22	22	22	22	22	20	20	20	20	20	20	22	22	22	22	23	23	23	23	23	23	23	21
LPIA	HY02	23	23	23	23	22	22	20	20	20	20	20	20	21	21	22	23	23	23	22	22	22	22	22	22
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	112	121	121	121	21	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	19	-1	113	123	123	123	21	22	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	83	122	122	20	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	83	120	119	20	
SIHY	HY01	51	51	49	50	50	50	30	30	30	30	30	30	31	31	0	0	0	0	0	0	0	50	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
SYPS	HY03	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
SYPS	HY04	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	
TMGR	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
TMGR	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
TMGR	HY04	42	41	41	57	41	41	41	79	81	81	77	75	81	81	41	41	46	43	48	42	81	72	41	42
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	147	183	182	
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
Total Hydro		736	744	732	749	731	731	627	662	664	665	681	658	666	686	626	626	634	632	605	600	688	854	960	1012
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	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	3	8	15	17	22	28	33	30	37	34	39
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	10	16	22	32	14	12	16	12	31
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	20	29	33	37	34	41	48	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	8	13	18	24	27	29	30	26	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	18	22	25	23	39	39	42	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	9	23	36	49	60	71	58	75	86	50	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	14	20	26	31	31	34	39	48	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	13	18	22	25	24	22	26	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	20	39	50	65	67	100	69	73	82	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	11	14	20	22	27	24	21	30	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	15	17	17	18	17	11	35	42	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	22	35	32	52	54	48	67	86	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	11	21	57	63	47	53	47	78	88	

Daily MW Generation on Thursday

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			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	23	30	28	36	36	24	39	37	26	29	34	26	28	23	21	17	12	9	5	1	0	0	0	0	0	0	0	0	0	0	0
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	10	20	23	30	36	31	41	30	41	41	43	38	12	11	16	19	5	0	0	0	0	0	0	0	0	0	0	0	0	0	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	7	14	17	14	19	15	7	15	11	19	18	15	16	13	3	4	2	2	0	0	0	0	0	0	0	0	0	0	0	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	14	19	26	15	12	24	23	22	21	24	30	30	29	18	20	17	12	6	3	0	0	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	111	247	371	515	612	682	638	687	823	733	722	699	793	559	477	341	264	202	139	104	48	12	4	4	4	0	0	0	0	0	0	0	0
ESTL	ESTL	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
KHTC	BLK1	2	2	2	3	1	1	2	1	0	1	3	2	2	3	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	3	3	3	2	4	3	4	3	4			
PCUF	CUFG	6	4	4	4	5	4	5	4	5	4	5	4	4	4	4	4	5	5	4	5	4	5	5	4	5	6	4	5	6	5	5	4	4	5	4	4	5	5	5	5	4	3	4	4	5	5				
PCUF	CUFK	4	4	5	4	3	3	5	3	4	4	3	4	3	4	2	2	4	5	4	3	4	4	3	4	3	5	4	3	4	4	4	3	3	5	4	4	3	4	5	4	4	4	2	4	3	4	4	4		
Total Co-Gen		27	25	26	26	24	23	27	23	24	25	25	27	24	25	24	21	25	28	24	23	23	24	23	23	23	26	23	23	25	24	24	22	22	25	23	23	23	27	27	27	27	27	24	25	24	27	27	28	28	
Total Gen		14754	14290	13906	13741	13563	13337	13176	12913	12773	12766	12684	12812	13143	13359	13153	13158	13605	14689	15257	15673	16097	16350	16576	16706	16514	16273	16205	16383	16896	17091	17344	17343	17371	17433	17139	16697	16159	16050	16691	17200	17057	16909	16742	16547	16214	16020	15701	15354		
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		
TIE-HVDC		-30	-30	-30	-30	-30	-29	-30	-28	-27	-30	-30	-28	-29	-30	-28	-79	-78	-79	-77	-77	-80	-78	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	-77	
TIE-PLTG		-6	-36	-48	-28	-18	15	-10	-46	-49	-57	-5	-15	-20	-43	22	25	71	97	59	58	57	28	25	99	93	-22	-34	-14	-20	-69	-75	-34	8	33	78	44	33	35	92	83	105	88	75	30	-16	-27	-7			
Interconnection		-36	-66	-77	-57	-48	-13	-40	-73	-77	-87	-35	-43	-49	-74	-6	-3	-8	19	20	-20	-21	-51	-54	22	16	-23	-34	-14	-101	-147	-75	-63	-22	4	49	15	5	5	14	6	4	25	11	-4	0	-44	-55	-37		
System Total		14790	14356	13983	13798	13611	13350	13216	12986	12850	12853	12719	12855	13192	13433	13159	13161	13613	14670	15277	15693	16118	16401	16630	16684	16498	16296	16239	16397	16997	17238	17419	17406	17393	17429	17090	16682	16154	16045	16677	17194	17053	16884	16731	16551	16214	16064	15756	15391		
SRev ST-Coal		172	283	448	440	396	379	494	578	582	577	577	578	591	570	602	517	525	368	171	184	131	166	150	138	131	134	119	112	105	27	101	106	105	122	144	118	127	135	111	132	121	141	131	135	114	131	131	174		
SRev OCGT-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		
SRev CCGT-Gas		1493	1822	2029	2213	2232	2576	2626	2579	2461	2443	2588	2541	2218	2148	2373	2528	2394	1780	1592	1241	1005	938	749	822	1256	1072	1305	1100	1014	864	692	1033	933	931	803	752	1179	1047	664	359	470	566	690	676	935	961	1279	1784		
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		
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		
SRev Co-Gen		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		
Syncon		917	917	917	917	917	917	917	917	917	766	917	917	766	917	917	917	917	917	917	917	917	579	428	428	428	917	917	766	917	428	428	252	252	252	340	552	791	791	604	453	453	453	302	453	453	791	791	791		
Hydro		70	72	74	57	75	75	129	94	92	91	226	98	90	221	130	130	122	124	101	106	68	240	285	233	324	50	86	248	103	190	143	367	363	207	430	252	89	65	270	271	314	302	413	348	348	82	83	83		
S.Reserve Total		2652	3094	3468	3627	3620	3947	4166	4168	4052	4028	4157	4134	3816	3705	4022	4092	3958	3189	2781	2448	2121	1923	1612	1621	2139	2173	2427	2226	2139	1509	1364	1758	1653	1512	1717	1674	2186	2038	1649	1215	1358	1462	1536	1612	1850	1965	2284	2832		