

Daily System Generation Summary on Monday

Monday, May 15, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,275 MW
Distillate	0 MW
Total TNB	2,275 MW
Total IPP	18,666 MW
Total Co-Gen	0 MW
Total System	22,771 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,368	3.40 %
Gas	28,204	7.18 %
Total TNB	41,572	10.58 %
ST-Coal	247,355	62.95 %
ST-Gas	3,500	0.89 %
LSS	6,339	1.61 %
Gas	94,255	23.99 %
Total IPP	351,449	89.44 %
Co-Gen	190	0.05 %
Total Co-Gen	190	0.05 %
Total Generation	393,211	100.06 %
PLTG	-149	-0.04 %
HVDC	397	0.10 %
Interconnection	248	0.06 %
Net Energy	392,963	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	19,975 MW
TNB Generation	2,678 MW
IPP Generation	16,112 MW
Spinning Reserve	1,199 MW
Maximum Demand	18,809 MW
Net Energy	392,963 MWH
Load Factor	87.05 %

Fuel Cost

Total Cost:	99,504,881.16 RM
Cost per Unit	25.27 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	523
Hydro	282
Syncon	649
Thermal	189
Total	1,643

Time	Weather	Temperature
Afternoon	Sunny	32
Morning	Thunder St	28

Gas Usage

Station	(mmscfd)
GLGR	33
TJGS	67
Total TNB	100
CBPS	45
EMPP	271
KLPP	50
NPRI	137
PCGP	80
PLPS	41
SPGP	93
PKLG	36
Total IPP	754
Total Gas	854
Total Gas Required	854

Alternate Fuel Usage

Station	(mmscfd)
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	15595	14941	14250	13792	13499	13208	13432	13439	14241	16034	17081	17665	17767	17619	18127	18530	18800	18384	17202	17120	18144	18215	17774	17404

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 2, 2023 3:15:16 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

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	705	709	705	706	701	718	705	705	601	537	505	503	506	605	603	605	710	706	705	710	705	705	706	703	703	708	706	706	705	706	705	706	705	707	705	704	706	706	705	707	704								
JMAH	U002	712	700	708	703	707	705	700	704	603	514	505	503	503	608	601	604	703	703	708	692	700	705	708	704	704	702	704	710	706	706	701	705	704	705	705	702	705	707	706	704	698	704	705	704	705	702	706	702	
JMHE	U002	974	975	911	899	899	896	846	849	849	851	850	853	849	851	846	854	852	942	968	972	975	971	978	977	972	973	976	977	978	977	977	981	978	981	983	974	975	979	978	981	978	981	976	979	979	978	977	976	
JMJG	U001	662	671	668	668	667	665	671	666	670	663	664	667	667	667	667	671	664	664	667	668	666	669	667	662	667	668	667	670	667	675	668	665	664	669	667	666	666	666	666	667	668	669	667	673	671	665	675	665	
JMJG	U002	678	675	671	675	674	675	673	677	674	668	676	672	675	674	674	674	675	672	673	673	673	676	677	673	676	671	676	673	679	671	675	671	674	678	675	676	675	676	672	675	676	673	672	673	676	674	674	672	
JMJG	U003	669	670	671	675	672	671	675	672	673	673	667	671	672	673	673	673	669	669	673	679	664	670	671	676	669	672	673	664	679	636	596	594	654	680	676	687	676	680	682	679	677	678	682	681	680	679	679	682	
JMJG	U004	973	947	892	830	774	751	787	844	856	852	858	860	857	854	851	856	854	908	965	977	977	981	981	979	981	979	979	977	977	979	981	980	979	979	977	980	978	977	983	980	977	979	974	968	973	971	977	974	
JMJG	U005	978	977	939	898	900	899	848	848	848	851	850	853	852	849	848	852	854	953	978	980	981	981	982	979	979	980	977	980	981	978	978	979	978	978	981	981	979	974	981	979	980	981	982	981	980	979	981	977	
PKLG	U003	275	274	276	275	277	275	215	152	155	155	154	156	155	154	156	155	173	267	273	278	277	277	274	275	274	274	274	274	275	274	275	275	274	274	276	275	275	275	274	274	273	274	274	274	277	276			
PKLG	U004	274	274	270	276	276	275	212	141	153	152	155	155	155	154	154	153	185	253	276	270	273	276	276	272	268	271	273	276	276	275	274	272	273	276	275	272	272	276	274	273	281	274	274	270	272	274	272	279	
PKLG	U005	359	359	361	413	468	466	466	464	466	467	467	468	470	468	473	397	386	464	462	467	468	466	464	469	460	464	466	469	469	465	466	467	469	468	466	466	466	466	464	462	467	468	465	466	468	470	469	465	468
PKLG	U006	359	359	358	358	357	359	295	268	269	269	269	270	269	269	269	269	304	359	358	358	359	359	358	359	358	360	358	359	358	359	359	358	360	358	358	358	358	358	357	359	358	359	359	358	358	358	358	359	358
TBIN	U001	697	696	697	698	699	697	702	709	697	697	700	694	698	696	699	651	694	696	699	698	698	703	695	699	694	697	695	699	696	699	700	698	695	697	701	697	696	701	695	695	700	696	698	701	699	699	698	699	
TBIN	U002	698	695	698	698	700	700	694	699	700	700	698	695	696	698	697	651	697	697	698	698	698	700	699	700	695	696	698	698	700	701	694	697	699	700	699	697	701	701	707	698	699	701	698	699	701	701	700	698	698
TBIN	U003	695	678	486	447	558	691	693	692	696	696	694	693	693	693	697	654	696	695	694	692	693	695	697	694	692	694	693	696	694	695	694	695	694	696	694	693	697	695	695	694	695	694	694	696	692	696	695	693	
TBIN	U004	752	754	753	754	752	754	751	751	751	754	755	752	751	754	752	754	751	752	752	750	751	753	753	753	754	751	753	753	752	752	750	753	754	754	753	750	753	752	753	750	750	752	753	752	755	753	753	753	753
Total ST-Coal		10460	10413	10064	9973	10081	10197	9933	9841	9661	9499	9467	9466	9468	9667	9660	9473	9867	10400	10549	10562	10560	10586	10587	10569	10547	10562	10568	10583	10593	10542	10496	10498	10554	10598	10591	10582	10572	10594	10582	10580	10590	10582	10577	10585	10591	10576	10593	10576	
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	0	
PKLG	U001	147	147	147	147	146	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	146	147	147	147	147	147	146	147	146	146	146	146	146	146	146	147	147	147	147	147	147	147	147	147	146	101		
Total ST-Gas		147	147	147	147	146	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	146	147	147	147	147	147	146	147	146	146	146	146	146	146	147	147	147	147	147	147	147	147	146	101				
CBPS	BLK2	353	222	222	222	222	222	222	222	222	222	222	222	222	222	221	221	222	221	357	359	359	359	359	359	359	359	359	359	359	359	359	359	358	359	358	329	222	222	300	350	349	349	350	351	346	220			
EMPP	BLK1	578	516	536	471	452	404	411	407	407	400	398	412	420	411	398	414	416	409	521	698	712	709	709	710	679	708	690	694	710	694	692	717	710	711	710	685	706	711	714	698	708	712	715	692	706	713	693	711	
EMPP	BLK2	576	518	541	473	451	404	410	406	407	400	398	412	418	412	399	415	416	409	526	699	712	710	709	711	678	709	712	694	709	694	692	717	710	709	706	685	703	710	714	692	708	712	717	695	709	714	694	710	
EMPP	BLK3	576	518	538	470	449	404	411	406	407	401	398	413	414	411	399	415	416	409	523	695	712	710	708	711	679	708	712	693	710	694	692	717	710	710	707	685	706	711	714	692	708	712	717	693	710	715	693	711	
GLGR	GT01	93	95	93	95	93	94	95	93	95	94	94	95	94	95	94	95	96	95	95	94	94	92	93	95	92	93	94	94	93	93	93	95	94	94	94	93	93	95	95	95	89	103	65	65	66	66	65	67	
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	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	35	61	90	101	65	65	66	66	66	66		
GLGR	ST1C	42	42	42	42	42	42	42	42	42	42	42	42	42	42	41	42	42	42	42	42	42	42	42	41	41	42	42	41	41	42	42	41	41	41	41	41	41	41	44	44	53	96	74	71	71	70	71		
KLPP	GT13	116	116	116	116	116	115	116	121	120	116	116	119	121	121	117	120	122	120	124	120	121	121	121	121	117	120	124	120	104	103	103	107	138	137	137	138	104	104	109	136	138	139	139	102	111	111	112		
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	116	109	108	108	113	148	147	128	108	111	112	148	148	149	150	150	106	0	0	0	
KLPP	ST17	62	62	62	62	62	62	63	64	64	62	62	63	64	64	63	64	64	63	65	65	63	63	64	64	63	63	58	128	128	128	128	130	143	143	143	139	127	127	129	146	143	143	142	143	126	60	61	61	
NPRI	BLK1	328	326	329	328	326	317	326	319	320	316	313	324	329	329	312	328	329	327																															

Daily MW Generation on Monday

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	9	9	9	9	9	9	9	9	9	9	9	9	6	6	6	6	6	6	6	6	6	7	7	7	8	
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	70	70	0	0	0	0	125	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	69	70	-1	-1	-1	-1	-1	-1	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
HTRG	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	7	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	23	23	23	23	23	23	23	
KNRG	HY03	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	
KNYR	HY01	0	0	0	0	0	0	55	-1	-1	-1	-1	100	63	99	100	98	98	99	99	99	99	99	99	99	99	
KNYR	HY02	99	99	99	99	61	59	61	58	56	55	56	60	72	58	60	82	67	100	99	99	99	99	100	89	100	
KNYR	HY03	99	98	98	97	96	95	0	0	0	0	0	0	0	96	97	97	97	96	95	95	97	97	98	99	99	
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	14	14	14	14	17	17	17	17	17	17	17	17	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	12	12	13	13	14	16	16	16	16	16	16	14	
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	3	
PGAU	HY01	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16	-1	-1	-1	-1	-1	-1	-1	-1	-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	21	20	23	20	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	51	51	30	31	31	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	30	30	30	
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	17	
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	25	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	4	0	0	
TMGR	HY01	33	0	0	-1	0	0	-1	0	0	0	0	0	0	-1	0	-1	-1	41	84	86	86	84	85	42	-1	
TMGR	HY02	46	45	45	45	46	44	46	44	45	43	42	45	45	45	45	45	45	86	89	89	86	88	45	39	39	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	31	83	83	83	81	82	32	32	32	32	32	32	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	90	95	92	92	-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	
UPIA	HY01	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	4	5	5	5	4	4	4	4	
Total Hydro		395	360	379	358	321	316	223	217	272	212	213	215	219	332	279	326	331	411	460	453	521	685	710	832	718	761
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	14	17	19	21	23	24	25	24	24
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	9	13	16	20	23	14	18	29	29	24	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	12	16	20	23	26	30	30	29	28	31	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	15	20	25	29	18	35	32	32	42	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	17	22	27	31	34	36	38	30	29	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	12	15	19	21	25	26	23	18	28	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	15	21	26	30	35	38	43	44	42	43	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	13	18	10	26	9	25	31	27	27	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	13	19	25	31	36	37	21	37	28	14	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	11	22	25	46	58	66	56	42	89	54	81	44	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	16	21	26	31	35	24	26	42	22	12	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	6	13	16	21	10	27	24	24	30	4	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	14	10	31	23	71	81	89	95	99	100	100	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	4	14	9	22	21	23	28	30	18	21	
MALS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	18	26	28	29	29	30	30	29	29	27	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	18	25	30	34	39	43	48	47	49	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	15	43	67	78	84	87	90	91	93	94	96	97	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	18	33	48	59	77	84	84	79	74	104	93	103	

Daily MW Generation on Monday

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	2	8	14	19	26	32	39	26	11	16	15	27	2	1	8	11	10	21	10	6	6	6	3	1	0	0	0	0	0	0	0	0			
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	15	21	28	32	36	38	40	41	42	26	43	40	40	30	15	31	3	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	1	3	6	9	12	15	17	17	22	8	8	26	13	23	22	20	19	5	0	0	0	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	1	4	14	20	29	30	30	30	30	30	30	30	30	30	29	23	25	18	24	12	0	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	35	167	301	447	560	712	810	794	810	883	870	910	777	667	774	791	707	592	393	283	224	117	49	12	5	0	0	0	0	0	0	0	0	0	
ESTL	ESTL	15	15	11	5	16	8	8	4	6	20	23	26	25	27	18	0	5	6	3	7	9	10	12	10	13	14	16	20	19	18	18	16	18	18	18	20	14	13	12	13	13	11	10	12	12	6	7	5	
KHTC	BLK1	-16	-14	-14	-9	-11	-9	-9	-10	-9	-10	-7	-5	-6	-6	-10	-4	-11	-17	-24	-28	-31	-31	-32	-35	-38	-35	-40	-31	-36	-40	-41	-40	-43	-38	-25	-30	-29	-27	-18	-15	-17	-19	-20	-20	-18	-18	-19	-18	
PCUF	CUFG	3	4	2	4	3	4	4	3	4	4	3	4	2	3	3	3	3	5	3	3	3	4	3	2	3	3	3	3	3	3	4	3	3	3	3	4	2	4	3	5	2	3	3	3	4	3	2		
PCUF	CUFK	5	3	2	8	9	26	26	25	26	27	24	26	27	26	27	26	27	16	4	2	3	3	1	1	1	2	2	3	3	3	1	2	1	3	4	2	3	23	26	27	24	24	25	26	27	25	3	2	
Total Co-Gen		7	8	1	8	17	29	29	22	27	41	43	51	50	49	38	25	24	8	-12	-16	-16	-15	-15	-20	-21	-17	-19	-5	-11	-16	-19	-18	-21	-14	0	-4	-10	13	23	30	22	19	18	21	24	17	-6	-9	
Total Gen		15574	15189	14919	14618	14255	14049	13807	13606	13500	13281	13228	13336	13441	13683	13487	13518	14292	15334	16076	16695	17152	17573	17715	17957	17808	17707	17608	17945	18158	18599	18592	18605	18779	18776	18348	17780	17191	16878	17127	17959	18154	18250	18218	18066	17746	17465	17384	16804	
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		
TIE-HVDC		29	31	29	31	31	30	31	31	29	31	29	30	32	31	29	31	30	32	33	31	31	31	30	31	30	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	0	0	0	-28
TIE-PLTG		-51	-71	-52	-43	-26	4	-16	-33	-28	-31	-9	10	-22	20	19	-9	22	20	10	43	39	51	19	1	10	-12	-39	-10	31	83	62	-7	-21	-33	-36	-12	-11	-41	7	-5	10	4	4	-9	-28	-52	-20	-38	
Interconnection		-21	-41	-22	-12	5	35	15	-2	1	0	20	40	9	50	48	21	51	52	42	75	71	81	50	32	41	18	-11	-10	31	83	62	-7	-21	-33	-36	-12	-11	-41	7	-5	10	4	3	-9	-28	-52	-20	-66	
System Total		15595	15230	14941	14630	14250	14014	13792	13608	13499	13281	13208	13296	13432	13633	13439	13497	14241	15282	16034	16620	17081	17492	17665	17925	17767	17689	17619	17955	18127	18516	18530	18612	18800	18809	18384	17792	17202	16919	17120	17964	18144	18246	18215	18075	17774	17517	17404	16870	
SRev ST-Coal		151	158	628	714	430	321	405	340	597	610	606	608	604	603	602	766	502	316	173	160	162	136	135	153	175	160	154	139	129	180	226	224	168	124	131	140	150	128	140	142	132	140	145	137	131	146	129	146	
SRev CCGT-Gas		1169	1473	1406	1602	2044	2374	2259	2355	2341	2495	2519	2420	2320	2389	2514	2443	2199	1888	1490	986	747	615	482	576	661	939	1211	824	565	477	448	339	291	233	251	450	727	1090	1035	415	279	236	292	436	536	391	508	910	
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 ST-Gas		34	34	34	34	34	34	34	34	34	34	33	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	33	33	33	34	34	34	34	34	34	33	31			
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 Co-Gen		32	28	28	18	22	18	18	20	18	20	14	10	12	12	20	8	22	34	48	56	62	62	64	70	76	70	80	62	72	80	82	80	86	76	50	60	58	54	36	30	34	38	40	40	36	36	38	36	
Syncon		802	802	651	890	802	802	890	802	802	903	903	903	903	802	802	651	890	802	890	890	802	802	651	615	802	802	802	890	651	615	615	615	489	302	615	651	802	890	890	676	525	525	525	525	890	890	802	651	
Hydro		154	102	234	103	141	146	138	145	190	149	148	146	142	130	183	287	130	151	126	133	240	76	202	204	131	88	225	226	405	268	273	287	330	430	399	400	239	184	181	293	382	367	337	356	245	215	206	345	
S.Reserve Total		2429	2771	3155	3448	3647	3869	3831	3870	4156	4385	4398	4294	4188	4144	4329	4363	3864	3399	2848	2346	2047	1725	1568	1652	1879	2093	2506	2175	1856	1654	1678	1579	1398	1199	1480	1822	2096	2466	2402	1590	1386	1340	1373	1528	1872	1712	1890	2293	