

Daily System Generation Summary on Saturday

Saturday, March 30, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,359 MW
Distillate	0 MW
Total TNB	2,359 MW
Total IPP	16,648 MW
Total Co-Gen	30 MW
Total System	21,993 MW

Generation Mix

Type	MWh	Percentage
Hydro	6,081	1.72 %
Gas	37,458	10.62 %
Total TNB	43,539	12.35 %
ST-Coal	218,942	62.08 %
LSS	1,436	0.41 %
Gas	87,849	24.91 %
Total IPP	308,227	87.40 %
Co-Gen	1,482	0.42 %
Total Co-Gen	1,482	0.42 %
Total Generation	353,248	100.17 %
PLTG	25	0.01 %
HVDC	559	0.16 %
Interconnection	584	0.17 %
Net Energy	352,664	100.00 %

Maximum Demand Record

Date: 3/19/2019	18,402 MW
Date: 3/20/2019	390,048 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	18,077 MW
TNB Generation	2,156 MW
IPP Generation	13,838 MW
Spinning Reserve	2,052 MW
Maximum Demand	16,006 MW
Net Energy	352,664 MWH
Load Factor	91.81 %

Fuel Cost

Total Cost:	72,841,661.93 RM
Cost per Unit	20.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	446
Hydro	384
Syncon	875
Thermal	310
Total	2,015

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	52
PAKA	4
PGPS	3
TJGS	210
Total TNB	268
KLPP	62
MPSS	31
NPRI	155
PGLA	108
PLPS	93
PTEK	4
SGRI	61
SKSP	1
YPKA	53
Total IPP	568
Total Gas	835
Total Gas Required	835

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	15546	14943	14473	13877	13638	13430	13378	13016	12598	13735	14760	15289	15172	14891	15223	15369	15347	15161	14635	14821	15994	15893	15681	15519

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, April 05, 2019 12:38:17 PM

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

Daily MW Generation on Saturday

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	689	696	694	692	692	693	690	693	693	693	694	691	692	691	693	693	692	693	693	689	692	693	692	693	692
JMAH	U002	689	693	696	695	694	694	693	696	694	694	693	693	693	693	695	695	693	696	694	696	693	691	693	697	694
JMJG	U001	679	678	677	677	678	677	673	677	679	677	679	678	681	675	677	677	676	672	671	679	678	679	677	682	679
JMJG	U002	678	676	677	677	682	679	676	678	677	678	675	675	683	674	678	677	678	674	678	679	679	674	678	681	678
JMJG	U003	670	670	669	672	670	669	671	670	672	671	669	669	668	669	668	673	670	666	671	673	671	668	670	670	666
JMJG	U004	977	977	977	898	813	781	783	782	786	782	782	782	785	783	783	785	783	834	921	980	980	982	982	981	980
JMJG	U005	972	974	975	841	780	781	779	781	780	778	782	782	779	780	780	778	779	781	843	965	983	977	978	973	975
PKLG	U003	282	280	285	284	286	282	283	285	284	286	283	282	288	283	281	285	282	280	254	280	255	205	225	281	282
PKLG	U004	282	287	281	281	281	290	280	281	279	278	279	279	281	281	280	281	282	254	274	278	245	281	281	282	239
PKLG	U005	465	470	467	467	464	466	467	466	468	467	464	468	466	464	466	466	464	441	410	408	358	413	466	463	389
TBIN	U001	692	691	690	689	691	690	688	689	691	690	690	689	689	685	690	690	692	691	692	689	689	690	691	690	690
TBIN	U002	693	695	692	690	692	692	693	691	693	691	690	692	690	694	692	691	694	691	693	691	690	692	692	689	692
TBIN	U003	692	691	693	691	691	691	691	692	691	691	690	692	691	691	694	690	691	691	692	690	691	691	692	689	692
TBIN	U004	951	952	951	924	835	801	802	802	802	801	802	802	803	803	801	851	942	951	950	951	951	952	952	951	952
Total ST-Coal		9411	9430	9424	9178	8949	8886	8869	8883	8889	8878	8873	8875	8887	8873	8874	8883	8881	8869	8810	8969	9280	9252	9369	9421	9415
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
GLGR	GT01	67	66	68	67	68	67	69	68	67	70	68	69	67	67	68	68	68	68	101	84	85	99	100	99	100
GLGR	GT02	68	68	68	68	69	68	68	68	68	68	68	68	68	68	68	68	68	101	85	85	101	101	101	92	102
GLGR	ST1C	71	71	71	71	71	71	71	71	71	71	71	71	71	70	70	70	71	89	82	81	90	90	90	89	87
KLPP	GT13	126	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	139	142	124	120	118	128	118	
KLPP	GT14	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	136	136	135	135	137	133	126	126	124	124	124	125	129	125	124	125	126	125	140	139	144	132	129	130	134
KLPP	ST17	188	124	59	59	56	56	58	54	54	54	53	53	56	56	53	62	61	59	57	61	132	131	127	123	
MPSS	GT01	95	95	98	98	98	96	97	96	97	96	97	97	99	97	98	96	94	95	96	109	97	97	105	104	
MPSS	ST01	43	43	45	43	45	45	44	44	42	41	43	44	42	44	44	41	38	43	42	51	44	45	50	50	
NPRI	BLK1	502	500	509	510	511	509	509	508	509	509	502	495	506	509	456	344	325	473	500	511	499	505	503	506	499
NPRI	BLK2	502	502	511	512	510	510	511	508	511	511	506	497	509	511	457	341	320	473	503	506	501	507	505	507	502
PAKA	GT4A	84	84	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PAKA	GT4B	74	74	74	74	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PAKA	ST4C	80	80	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCGP	PGRG	585	582	602	601	603	602	601	592	606	603	601	603	601	606	501	409	382	392	600	401	388	401	395	400	390
PGLA	GT11	216	181	222	224	220	213	170	166	170	174	175	171	178	169	165	169	165	164	184	176	191	214	208	214	
PGLA	GT12	218	183	225	225	224	215	174	168	174	176	179	172	181	172	171	168	166	187	179	193	218	213	218	208	
PGLA	ST10	241	220	245	241	239	225	213	210	205	205	207	207	208	207	207	203	216	209	223	223	243	238	240	234	
PGPS	GT3A	72	71	72	72	72	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGPS	ST3C	30	30	30	30	30	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	118	139	116	123	115	134	
PLPS	GT12	115	115	145	151	151	147	126	128	120	119	64	64	63	63	64	63	60	63	64	145	144	143	124	129	
PLPS	GT13	106	104	133	137	139	135	113	117	110	108	62	63	64	62	64	60	63	63	133	127	135	112	120	111	
PLPS	ST18	135	131	145	146	145	146	132	137	133	133	93	90	88	89	89	90	86	89	90	144	196	213	207	209	
SGRI	GT11	135	110	114	136	136	136	111	110	110	110	112	113	113	110	109	109	109	110	109	124	103	107	134	134	
SGRI	GT12	142	118	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT13	0	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	ST14	149	133	95	71	74	74	65	65	66	65	66	65	65	65	65	66	64	63	65	69	64	63	72	72	
SKSP	BLK1	220	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	200	194	231	228	228	225	227	151	156	205	178	156	127	126	126	126	233	222	220	224	224	220	223	222	

Daily MW Generation on Saturday

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		
TJGS	GT1B	192	180	216	215	215	216	212	211	143	145	199	168	148	119	119	120	117	215	214	214	213	214	211	210	211	213	213	215	215	214	213	212	211	213	213	211	214	214	213	214	214	214	214	212	212	212	212	213	215
TJGS	ST1C	234	224	244	244	248	241	234	237	190	184	214	182	212	167	167	164	164	205	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	242	244	241	244	244	244	244	244	244	244	244	244	244	
TJGS	GT2A	213	213	213	213	213	214	214	213	213	144	147	147	147	148	146	148	148	171	210	210	210	210	210	210	210	208	210	208	210	210	210	210	210	210	210	209	209	209	209	209	209	209	209	209	209	209	210	209	
TJGS	GT2B	212	212	212	210	210	210	210	211	211	140	145	143	144	145	144	144	144	169	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	207	208	208	208	208	208	208	208	208	206	206	206	206	206	
TJGS	ST2C	258	258	258	258	258	258	258	258	258	217	211	211	211	211	211	211	216	254	254	257	257	257	257	257	257	257	257	257	257	257	257	257	257	256	256	256	256	256	256	256	256	256	256	256	256	256			
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	17	70	70	69	70	70	127	113	127	127	127	126	120	120	121	124	124	65	114	127	79	121	120	120	120	119	121	119	119		
YPKA	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	0	0	0	0	0	0	0	0	15	70	131	81	121	121	121	121	121	121	121	121	121			
YPKA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	55	0	54	55	56	56	54	52	52	52	52	34	51	118	93	114	114	115	115	115	115	115	115	115	
YPKA	GT21	120	119	84	134	134	135	110	65	65	65	65	65	65	65	65	65	65	65	125	64	125	124	125	124	125	125	125	125	125	125	125	125	125	125	124	125	124	65	65	124	123	123	123	123	123	123	123	123	
YPKA	ST20	59	58	40	62	61	62	57	36	36	36	36	36	36	36	36	36	36	59	37	57	59	60	60	60	60	61	60	61	61	60	61	60	61	59	59	59	59	39	37	60	60	60	60	60	60	60	60		
Total CCGT-Gas		5985	5479	5259	5272	5276	5097	4778	4694	4503	4324	4313	4197	4227	4109	3888	3577	3477	4126	4568	4949	5073	5303	5255	5326	5319	5367	5284	5506	5563	5627	5698	5694	5688	5653	5551	5420	5391	5355	5457	6099	6086	6049	6068	6088	6038	6100	6000	5924	
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	108	30	0	0	0	0				
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	70	98	57	0	0	0			
Total 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	92	215	100	98	57	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	10	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	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	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				
KNRG	HY02	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28			
KNYR	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				
KNYR	HY03	60	61	60	61	60	60	60	61	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	61	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60			
LPJA	HY02	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			
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6	6	6	6	6	6	6	6			
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	22	22	22	-1	-1	22	22	21	21	21	22	21	21	-1			
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-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	-1	-1	21	20	20	20	20	20	20	-1			
PGAU	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	0	0	0	0			
PGAU	HY04	20	20	21	21	20	21	22	21	21	21	21	21	22	21	21	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	21	21	20	20	20	21	21	21	20			
SIHY	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	30	49	49	50	49	30	30	0		
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	51	50	30	30	0		
SIHY	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	0	0	0	0			
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	0	0	25	25	25	25	17	17	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
TMGR	HY02	37	37	39	39	39	39	39	39	38	39	39	39	39	39	39	39	39	39	39	39	39	38	39	38	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39			
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				
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																									

Daily MW Generation on Saturday

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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	24	54	89	117	162	181	140	170	180	134	203	189	168	183	180	144	132	136	114	78	59	26	8	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	32	30	31	31	31	31	30	30	30	31	32	30	32	32	32	30	30	30	28	28	27	27	26	25	27	26	26	25	24	25	25	25	26	26	26	26	26	26	27	26	28	31	31	29	28	5	0	24		
PCUF	CUFK	42	42	44	42	44	43	44	43	42	43	43	44	44	42	44	44	43	44	44	44	44	44	43	44	42	44	43	42	43	44	42	43	45	43	43	44	43	42	0	0	0	0	0	0	0	0	0	11		
Total Co-Gen		74	72	75	73	75	74	74	73	72	74	75	74	76	74	76	76	73	74	74	72	72	71	70	70	67	71	69	68	68	68	67	68	70	69	69	70	69	68	27	26	28	31	31	29	28	5	0	35		
Total Gen		15658	15170	14949	14715	14490	14248	13913	13841	13676	13467	13475	13337	13382	13247	13029	12732	12645	13314	13732	14298	14776	14998	15236	15379	15193	15037	14910	15095	15251	15305	15399	15381	15378	15431	15211	14919	14689	14600	14846	15694	15977	16025	15894	15905	15730	15697	15568	15419		
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				
TIE-HVDC		31	31	30	32	29	29	31	31	31	29	31	31	30	30	31	31	30	30	30	30	30	30	30	30	30	31	31	30	30	29	29	32	31	0	0	0	0	0	0	0	0	0	0	0	30	30	30			
TIE-PLTG		82	24	-24	29	-12	26	6	32	7	11	14	-18	-26	14	-17	-9	17	-11	-33	-24	-14	-57	-83	-42	-9	-10	-12	-33	-2	4	0	29	0	-14	-1	-4	50	26	54	31	25	-6	-17	19	1	34	49	-16	18	-28
Interconnection		112	55	6	61	17	55	36	62	38	40	45	12	4	44	13	22	47	19	-3	6	16	-27	-53	-12	21	20	19	-3	28	34	30	16	31	27	50	26	54	31	25	-6	-17	19	1	34	49	14	49	2		
System Total		15546	15115	14943	14654	14473	14193	13877	13779	13638	13427	13430	13325	13378	13203	13016	12710	12598	13295	13735	14292	14760	15025	15289	15391	15172	15017	14891	15098	15223	15271	15369	15365	15347	15404	15161	14893	14635	14569	14821	15700	15994	16006	15893	15871	15681	15683	15519	15417		
SRev ST-Coal		107	88	94	365	383	383	399	388	379	387	397	396	383	397	394	386	387	400	459	453	321	290	238	192	198	293	288	307	242	238	241	239	241	231	385	481	500	485	432	396	391	390	393	396	397	389	392	387		
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	17	3	118	11	52	0	0	0		
SRev CCGT-Gas		769	1050	770	446	442	456	637	721	912	1091	1102	1218	1188	1306	1527	1838	1938	1309	867	832	782	352	400	362	451	348	496	414	433	369	298	302	308	343	445	706	735	979	877	311	324	361	342	322	372	310	410	486		
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		1	3	0	2	0	1	1	2	3	1	0	1	-1	1	-1	-1	2	1	1	3	3	4	5	5	8	4	6	7	7	7	8	7	5	6	6	5	6	7	3	4	2	-1	-1	1	2	25	0	26		
Syncon		989	989	989	989	989	989	989	989	838	989	838	989	989	989	989	989	989	989	989	989	989	989	802	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989			
Hydro		263	262	260	259	261	260	259	260	390	260	388	260	259	260	260	259	261	260	260	260	262	259	463	287	292	262	263	263	264	263	263	393	264	263	653	646	518	261	260	643	656	698	646	647	729	601	472	282		
S.Reserve Total		2129	2392	2113	2061	2075	2089	2285	2360	2522	2728	2725	2864	2818	2953	3169	3471	3577	2959	2576	2537	2357	1894	1908	1835	1938	1896	2042	1980	1935	1866	1799	1653	1681	1832	2176	2525	2446	2721	2561	2041	1991	2052	2185	2064	2239	2012	2112	2170		