

Daily System Generation Summary on Saturday

Saturday, June 26, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,276 MW
Distillate	0 MW
Total TNB	2,276 MW
Total IPP	14,959 MW
Total Co-Gen	0 MW
Total System	21,089 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,371	4.27 %
Gas	62,173	19.85 %
Total TNB	75,544	24.12 %
ST-Coal	161,787	51.66 %
LSS	3,656	1.17 %
Gas	70,692	22.57 %
Total IPP	236,135	75.41 %
Co-Gen	163	0.05 %
Total Co-Gen	163	0.05 %
Total Generation	311,842	99.58 %
PLTG	-607	-0.19 %
HVDC	-700	-0.22 %
Interconnection	-1,307	-0.42 %
Net Energy	313,149	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:00:00 Hour
Total Set On Bus	15,642 MW
TNB Generation	4,304 MW
IPP Generation	10,229 MW
Spinning Reserve	1,103 MW
Maximum Demand	14,592 MW
Net Energy	313,149 MWH
Load Factor	89.42 %

Fuel Cost

Total Cost:	45,685,255.29 RM
Cost per Unit	14.65 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	499
Hydro	165
Syncon	738
Thermal	355
Total	1,757

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	209
Total TNB	239
CBPS	55
NPRI	162
PGLA	56
PLPS	64
SKSP	11
YPKA	68
Total IPP	416
Total Gas	655
Total Gas Required	655

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	14083	13461	12893	12489	12140	11876	11790	11511	11208	11979	12425	12815	12942	13005	13212	13536	13589	13609	13194	13295	14557	14592	14437	14410

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 5, 2021 5:40:40 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

		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	686	691	696	696	693	693	696	694	696	693	697	695	697	694	696	698	694	694	697	693	698	696	695	695	696	695	694	695	696	695	694	695	696	695	694	693	697	693	697										
JMHE		U001	934	928	930	931	929	933	848	805	777	778	780	780	785	781	778	779	779	781	782	778	783	779	841	879	880	880	882	882	881	880	879	882	880	883	881	883	879	882	880	882	919	919	917	920	920	923	919	920	
JMHE		U002	932	928	930	931	932	930	848	802	778	781	781	781	779	781	779	779	780	781	781	780	781	780	833	880	880	881	882	878	885	879	880	883	881	879	879	884	882	881	881	883	920	921	920	922	919	923	922	921	
JMUG		U002	671	669	668	665	666	671	669	667	668	667	669	663	665	669	667	629	632	631	668	673	670	679	676	671	668	671	672	673	674	675	673	671	667	663	662	668	670	671	667	662	667	670	667	668	667	668	672	673	
JMUG		U003	667	666	666	671	671	666	673	674	668	666	672	668	668	669	672	625	629	625	668	672	671	669	668	664	671	673	671	668	668	671	672	669	667	666	665	671	662	662	663	662	666	664	664	672	663	665	662	667	
PKLG		U003	280	279	280	280	283	281	280	281	281	281	281	281	280	281	280	280	280	280	280	280	279	279	279	279	280	280	280	278	279	280	280	281	282	281	280	281	280	280	278	279	280	279	279	279	280	280			
PKLG		U006	446	450	450	446	446	450	448	448	452	451	448	450	446	448	450	448	449	445	449	445	449	450	450	449	450	449	446	449	450	448	449	449	446	450	448	449	447	448	448	449	449	447	449	448	448	446	446		
TBIN		U001	687	686	689	689	687	687	686	689	688	688	689	684	688	689	689	691	687	689	689	688	688	687	687	690	687	689	688	689	687	688	688	689	687	688	688	687	690	688	687	687	688	685	687	689	687	687	687		
TBIN		U002	691	693	690	692	691	693	694	693	694	695	691	694	692	691	694	690	695	690	695	690	692	685	693	691	643	618	692	692	692	691	693	692	690	692	692	694	693	692	692	690	693	691	687	690	692	693	692	689	
TBIN		U004	934	934	932	933	930	934	892	853	853	853	853	851	854	853	853	853	852	852	853	853	853	854	870	884	884	883	882	884	885	883	882	882	881	884	882	883	884	883	884	884	924	921	924	923	922	922	922	924	
Total ST-Coal			6928	6924	6931	6934	6928	6938	6734	6605	6555	6553	6561	6547	6555	6556	6558	6475	6477	6469	6562	6552	6565	6561	6694	6781	6739	6719	6788	6788	6800	6788	6791	6792	6782	6776	6777	6791	6782	6787	6779	6772	6899	6899	6884	6904	6893	6905	6894	6904	
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	358	358	358	367	358	357	357	360	360	353	369	368	371	364	357	356	364	362	364	363	363	362	357	367	367	362	357	364	357	368	368	364	364	364	362	365	357	362	365	357	365	362	362	358	358	369	364	358	
GLGR		GT01	110	111	111	111	112	110	110	112	109	110	111	109	112	110	110	111	111	94	96	94	95	94	93	94	95	94	96	94	94	92	94	96	95	95	97	95	96	96	96	94	96	95	95	95	97	95	96		
GLGR		ST1C	46	45	46	46	46	46	46	46	45	45	46	46	46	46	46	45	45	40	41	41	40	40	39	40	41	40	41	40	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	40	40			
NPRI		BLK1	528	520	524	531	530	530	530	530	527	515	530	530	536	533	517	517	530	530	530	530	529	530	526	526	530	527	527	526	524	527	526	524	524	524	524	524	525	526	526	527	529	530	530	529	527	529	530	526	
NPRI		BLK2	532	524	529	534	533	533	532	532	529	518	532	535	532	535	521	518	535	533	533	530	531	529	527	527	524	526	523	522	524	524	524	521	523	522	522	522	524	524	523	524	524	526	527	526	527	526	529	528	
PCGP		PGRG	499	301	262	262	261	261	260	262	262	261	261	261	261	261	261	261	261	261	263	265	400	400	393	601	597	602	600	600	598	600	600	600	600	600	600	602	603	603	603	603	603	600	599	600	609	604	599		
PGLA		GT11	236	231	233	159	184	235	235	236	235	236	238	236	237	238	202	167	166	165	165	164	165	164	165	164	165	164	164	164	166	164	165	165	194	224	225	225	179	164	165	164	220	221	219	220	220	221	222	222	220
PGLA		GT12	157	156	157	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PGLA		ST10	223	223	223	92	63	75	75	77	76	75	77	76	76	76	74	57	57	57	57	72	89	89	90	89	89	88	89	89	90	90	94	114	115	115	101	126	127	130	130	130	130	130	130	130	130	108			
PLPS		GT11	132	128	128	128	129	127	128	128	129	129	129	129	129	129	129	128	128	128	129	129	129	128	128	129	129	129	129	129	128	129	128	129	129	128	129	124	127	106	127	139	130	130	130	130	130	130			
PLPS		GT12	135	132	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	143	143	144	145	145	145	145	145	145	145	145	145	139		
PLPS		GT13	127	124	124	125	126	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	140	139	139	140	140	140	140	140	140	140	140	140		
PLPS		ST18	208	209	207	141	140	135	59	58	57	57	57	57	57	57	57	56	58	56	57	57	57	57	56	57	57	57	57	57	57	57	57	57	57	56	142	143	210	212	212	212	212	212	212	211	211	211	212	206	
SKSP		BLK1	337	336	338	218	218	218	298	298	297	297	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP		BLK1	357	359	450	720	548	359	359	358	360	359	359	359	360	359	360	360	360	360	360	360	359	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360			
SPGP		BLK2	717	716	359	360	362	361	361	360	360	359	360	360	360	360	360	360	360	362	549	718	718	720	718	720	717	718	718	718	718	719	718	719	718	719	717	719	718	719	718	719	717	719	717	717	717	719			
TJGS		GT1A	223	222	225	225	225	225	225	224	227	226	215	225	227	229	227	221	195	196	228	226	226	228	226	224	161	201	198	197	203	211	223	224	225	224	223	226	226	211	159	164	227	226	223	226	224	226	227		
TJGS		GT1B	216	214	215	214	214	217	215	216	216	208	214	216	220	217	212	184	180	216	216	218	216	217	215	154	190	187	191	198	206	215	216	216	215	219	214	215	200	147	151	216	213	213	216	218	216	218	213	216	
TJGS		ST1C	243	243	243	243	243	243	243	243	243	243	243	243	243	243	211	191	240	240	243	243	243	243	190	216	216	216	216	243	244	244	244	244	244	244	244	244	244	244	205	190	240	2							

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	
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	62	62	62	62
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
KNRG	HY01	36	36	36	25	25	36	36	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	22
KNRG	HY02	37	37	37	24	25	37	37	38	39	39	39	39	39	39	39	39	39	39	39	37	37	37	37	37	25
KNRG	HY03	36	36	36	24	24	36	36	7	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	27
KNYR	HY01	56	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	61	62	62	-1	-1	-1	99	99	99
KNYR	HY02	97	96	96	98	98	98	98	99	57	0	0	0	0	0	0	0	0	0	100	99	60	60	59	99	99
KNYR	HY03	96	96	96	98	98	98	98	99	100	57	59	102	0	0	0	0	0	0	0	60	100	100	101	100	101
KNYR	HY04	58	56	56	97	74	58	98	76	59	57	99	93	101	101	58	55	99	101	98	100	100	79	79	85	61
LPIA	HY01	19	20	20	20	20	20	20	20	20	20	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
LPIA	HY02	19	19	19	19	19	19	19	19	19	19	17	17	17	17	17	17	17	17	17	15	15	15	15	15	15
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	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	48	48	47	47
SIHY	HY02	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
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	50
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	25
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	25
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	0	0	0	0	0	0	0	0	0	0	0	25
TMGR	HY01	34	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	HY02	35	34	35	46	51	44	76	52	43	40	80	46	86	85	41	41	70	57	50	81	47	50	44	85	46
TMGR	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
TMGR	HY04	42	40	42	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	-1	-1	-1	0
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	89
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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	5	5
UPIA	HY02	4	5	4	4	4	5	5	4	5	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	5
Total Hydro		666	569	571	519	503	504	575	465	435	362	369	372	318	318	223	221	295	285	273	306	273	277	234	323	281
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
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	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	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	0
CHLS	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	0
GBLS	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	0
GELS	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	0
GNLS	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	0
JSLs	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	0
KKLS	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	0
KRLS	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	0
MCLS	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	0
SPLS	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	0
SSLs	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	0
STLS	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	0
TBLS	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	0
Total 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
PCUF	CUFG	3	2	4	3	4	4	3	3	4	2	4	3	3	4	4	3	5	4	4	2	3	3	10	10	3

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	
PCUF	CUFK	4	3	4	2	5	3	3	5	2	3	3	4	3	4	4	3	2	3	4	4	1	3	4	3	4	3	5	4	2	2	3	4	4	3	3	5	3	4	4	4	4	3	3	2	4	1		
Total Co-Gen		7	5	8	5	9	7	6	8	6	5	7	7	6	8	8	7	4	7	6	8	5	6	7	7	7	8	7	9	6	5	5	13	14	7	5	5	7	5	8	7	7	8	6	6	6	6	4	
Total Gen		14041	13701	13416	13155	12789	12629	12406	12178	12082	11948	11782	11735	11706	11692	11543	11160	11172	11525	11919	12221	12404	12553	12785	12853	12856	12851	12899	12970	13104	13352	13471	13508	13556	13597	13560	13352	13171	13098	13248	14064	14541	14545	14539	14461	14382	14420	14369	14125
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		-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-30	-28	-28	-28		
TIE-PLTG		-10	-30	-12	-38	-72	-55	-50	-81	-26	14	-62	-7	-52	-25	65	20	-4	-33	-27	-4	11	-1	3	-67	-54	-56	-73	-113	-74	-56	-33	-17	0	-36	-16	12	10	2	-15	-21	16	-2	-21	-4	-22	-53	-10	-33
Interconnection		-39	-59	-41	-67	-100	-84	-80	-111	-55	-15	-91	-36	-81	-54	35	-10	-33	-62	-57	-34	-18	-30	-27	-96	-83	-85	-102	-142	-104	-85	-62	-46	-30	-66	-46	-18	-20	-27	-44	-50	-13	-32	-50	-33	-52	-81	-38	-61
System Total		14083	13764	13461	13226	12893	12716	12489	12292	12140	11966	11876	11774	11790	11749	11511	11173	11208	11590	11979	12258	12425	12586	12815	12952	12942	12940	13005	13116	13212	13440	13536	13557	13589	13666	13609	13373	13194	13128	13295	14117	14557	14580	14592	14497	14437	14504	14410	14189
SRev ST-Coal		279	283	276	273	279	269	363	362	360	366	360	372	369	366	362	445	441	452	361	366	360	359	357	369	413	432	365	361	359	361	358	363	367	377	375	366	370	366	373	383	308	308	323	303	314	302	313	303
SRev CCGT-Gas		274	511	898	1193	1270	1406	1295	1286	1300	1358	1541	1227	1209	506	562	871	971	1407	1153	977	833	721	641	723	637	636	647	616	494	351	274	242	195	196	279	293	482	609	609	175	167	169	167	175	177	140	164	207
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	
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	
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	
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	
Syncon		738	839	839	926	926	926	926	926	926	775	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	926	775	926	926	825	825	738	738	738	926	926	926	926	738	277	277	277	277	313	464	464	464
Hydro		288	197	195	160	176	128	67	137	127	351	93	90	44	44	139	141	67	77	89	56	89	85	128	39	81	75	76	160	74	52	108	91	144	145	182	141	195	179	205	87	355	350	341	441	471	245	261	345
S.Reserve Total		1579	1830	2208	2552	2651	2729	2651	2711	2713	2850	3020	2715	2748	2042	2189	2583	2605	2862	2529	2325	2208	2091	2052	2057	2057	2069	2014	1912	1853	1690	1565	1521	1444	1456	1574	1726	1973	2080	2113	1383	1107	1104	1108	1196	1275	1151	1202	1319