

Daily System Generation Summary on Saturday

Saturday, July 24, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,124 MW
Distillate	0 MW
Total TNB	2,124 MW
Total IPP	16,302 MW
Total Co-Gen	0 MW
Total System	22,406 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,082	5.52 %
Gas	72,099	21.99 %
Total TNB	90,181	27.51 %
ST-Coal	195,198	59.54 %
LSS	3,128	0.95 %
Gas	38,512	11.75 %
Total IPP	236,838	72.24 %
Co-Gen	143	0.04 %
Total Co-Gen	143	0.04 %
Total Generation	327,162	99.79 %
PLTG	182	0.06 %
HVDC	-872	-0.27 %
Interconnection	-690	-0.21 %
Net Energy	327,852	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:	22:30:00 Hour
Total Set On Bus	16,129 MW
TNB Generation	5,028 MW
IPP Generation	10,396 MW
Spinning Reserve	697 MW
Maximum Demand	15,476 MW
Net Energy	327,852 MWH
Load Factor	88.27 %

Fuel Cost

Total Cost:	50,660,465.67 RM
Cost per Unit	15.48 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	481
Hydro	201
Syncon	541
Thermal	433
Total	1,656

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmcsfd)
GLGR	50
SRDG	12
TJGS	208
Total TNB	269
CBPS	1
NPRI	157
PGLA	1
SKSP	7
Total IPP	166
Total Gas	435
Total Gas Required	435

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	14837	14272	13684	13221	12790	12397	12275	12135	11738	12437	12871	13198	13322	13316	13764	14042	14196	14147	13766	13849	15362	15464	15352	15271

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, August 5, 2021 10:57:41 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	652	651	652	561	503	501	502	501	501	499	450	452	452	451	418	299	304	359	501	692	692	692	693	694	691	691	691	691	692	693	692	691	692	691	703	702	713	702	705	703	702	702							
JMAH	U002	405	349	210	212	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
JMHE	U001	957	959	899	902	900	848	849	799	803	800	797	797	799	801	800	785	782	778	781	780	780	778	779	849	853	849	854	851	900	899	901	898	901	902	899	903	897	898	901	983	977	981	980	981	978	979	980	980	
JMHE	U002	961	959	900	901	901	890	850	817	801	800	798	802	799	801	807	785	781	778	780	779	778	779	780	849	852	849	854	850	902	902	901	897	902	901	901	901	899	897	901	969	968	973	974	961	961	973	972	968	
JMJG	U001	645	647	649	643	643	645	653	575	522	442	413	346	349	341	311	296	277	278	277	279	285	288	285	286	286	284	283	284	285	286	287	287	285	285	285	288	285	287	284	287	288	289	346	370	431	469	515	495	
JMJG	U002	598	601	634	626	645	667	673	673	670	672	677	675	676	672	672	673	671	673	677	675	671	673	671	675	673	674	677	671	673	673	675	672	672	673	671	663	668	666	672	665	679	677	679	679	674	679	678	679	
JMJG	U003	592	590	621	623	643	662	668	666	671	667	666	670	667	667	672	667	668	669	668	667	668	670	665	670	668	671	669	671	665	671	666	668	667	668	671	666	671	667	668	658	676	672	673	673	676	671	672		
JMJG	U004	963	956	900	902	903	892	854	813	785	785	785	786	787	789	786	785	788	786	787	785	788	785	786	838	857	855	856	854	905	902	903	905	904	904	904	903	905	903	904	970	977	975	977	976	977	977	975	979	
JMJG	U005	890	892	894	890	889	864	849	794	744	804	796	796	799	797	797	801	796	799	796	792	801	800	798	853	849	848	799	810	800	799	795	800	799	806	800	797	798	848	0	0	0	0	0	0	0	0	0		
PKLG	U006	448	449	445	450	449	448	449	450	448	449	447	446	446	449	446	445	449	449	442	434	446	450	452	448	447	442	445	448	448	446	449	449	449	446	448	450	447	448	449	449	446	448	448	444	449	448	445	450	
TBIN	U001	630	630	629	526	500	499	501	501	500	498	449	451	450	450	418	302	301	299	300	302	475	589	688	691	690	689	689	685	690	689	687	687	688	687	687	688	689	688	687	687	699	694	700	690	699	699	699	698	
TBIN	U003	630	631	631	520	501	501	499	501	501	497	446	450	451	449	425	300	304	304	303	303	438	569	696	692	697	691	691	692	691	694	693	692	693	689	689	692	692	692	697	690	699	699	701	699	698	698	677	700	
TBIN	U004	962	947	903	903	901	881	853	855	851	854	852	854	853	854	853	854	853	854	853	852	853	853	854	853	853	852	854	902	902	905	903	903	904	903	901	903	904	903	980	980	982	981	984	984	983	984	985		
Total ST-Coal		9333	9261	8967	8659	8468	8298	8200	7945	7797	7767	7576	7524	7528	7521	7406	6991	6975	7025	7166	7340	7675	7926	8146	8399	8416	8396	8360	8361	8553	8556	8554	8549	8555	8559	8551	8538	8547	8590	7758	8029	8092	8092	8172	8159	8229	8284	8298	8308	
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			
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			
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	31				
GLGR	GT01	67	66	67	69	68	68	66	68	67	67	68	66	68	68	68	68	67	67	69	67	66	66	67	66	66	67	68	68	86	104	104	105	104	103	103	103	103	103	103	104	104	103	104	104	103	103	104		
GLGR	GT02	67	68	67	68	67	68	66	68	68	67	67	67	67	68	68	68	68	67	67	68	68	67	67	67	67	67	67	68	87	104	103	104	103	104	103	103	103	103	103	104	104	104	104	104	104	104	104		
GLGR	ST1C	72	72	72	72	72	72	72	72	72	73	73	72	72	72	73	72	73	72	73	72	72	72	72	72	73	72	73	73	81	94	95	94	95	94	95	94	95	94	94	94	94	94	94	94	94	94	94		
NPRI	BLK1	515	506	515	512	520	514	512	514	515	517	515	515	518	514	512	509	515	515	507	503	512	514	509	511	515	511	515	514	515	512	519	517	515	515	519	521	502	502	515	525	524	524	525	525	526	526	526		
NPRI	BLK2	518	509	518	517	522	518	514	514	515	517	519	518	517	516	518	516	511	517	517	510	505	514	517	511	513	518	514	518	518	518	515	520	518	518	518	518	520	506	505	518	526	525	526	526	526	526	527		
PCGP	PGRG	602	590	602	602	611	604	602	597	599	602	606	603	603	604	602	600	594	602	604	591	302	303	303	280	281	281	281	282	281	283	340	502	605	604	357	358	350	586	682	689	688	691	694	694	693	693	603		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	24	28	38	16	28	
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	58	122	158	341	284	329	290	301		
SPGP	BLK1	727	725	724	728	725	726	727	727	719	598	600	599	600	600	601	723	723	724	724	726	725	725	726	726	726	727	725	725	725	719	719	717	711	711	712	713	718	722	723	726	725	725	725	724	726	726	724	725	726
SPGP	BLK2	725	725	723	725	723	726	726	725	721	597	600	599	598	600	600	725	724	724	725	727	726	725	726	727	727	727	725	728	728	727	726	724	717	719	720	721	725	725	726	726	726	726	727	726	727	724	726	727	
TJGS	GT1A	226	224	229	226	227	228	227	227	225	229	225	228	228	227	226	187	197	225	224	225	221	181	181	180	150	158	198	228	197	226	224	227	226	224	225	218	227	232	231	232	234	230	228	228	228	228			
TJGS	GT1B	216	217	214	218	214	217	217	217	215	215	214	214	217	216	215	213	177	187	212	212	216	208	167	168	171	141	146	188	215	185	214	212	215	214	210	212	214	214	211	205	216	216	217	220	216	220	216	216	
TJGS	ST1C	241	241	241	241	241	241	241	241	241	241	241	241	241	241	241	237	218	242	246	246	246	206	206	203	203	173	217	240	222	245	245	245	245	248	248	244	248	247	247	251	254	254	254	254	254	251	251		
TJGS	GT2A	225	225	225	224	226	223	223	223	224	223	223	223	223	223	221	198	187	218	216	224	224	168	108	108	108	108	108	139	183	215	224	224	224	224	224	217	218	215	216	216	216	218	217	216	218	218	217		
TJGS	GT2B	205	205	205	205	205	204	205	205	205	205	205	205	205	205	194	182	213	210	204	204	162	102	102	102	102																								

Daily MW Generation on Saturday

[illegible]

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		
TIE-PLTG		-12	25	-2	-29	-11	1	6	0	22	18	-18	-5	30	-3	2	-16	1	19	-32	-15	18	-8	-29	-20	-54	-27	-24	-38	-39	0	-4	43	21	45	55	25	56	75	75	22	1	13	24	35	23	-9	58	44	
Interconnection		-41	-4	-30	-58	-40	-28	-23	-28	-7	-11	-48	-35	1	-32	-28	-46	-28	-10	-61	-44	-10	-37	-57	-49	-83	-56	-53	-67	-68	-29	-34	13	-8	17	27	-3	26	46	45	-7	-98	-86	-76	-62	-76	-37	29	15	
System Total		14837	14520	14272	13909	13684	13375	13221	12964	12790	12580	12397	12310	12275	12306	12135	11801	11738	12162	12437	12720	12871	13019	13198	13370	13322	13285	13316	13582	13764	13990	14042	14123	14196	14275	14147	13900	13766	13677	13849	14822	15362	15414	15464	15401	15352	15476	15271	15158	
SRev ST-Coal		605	622	816	853	815	730	724	736	765	784	759	778	732	741	769	765	740	736	741	688	671	662	545	486	495	506	463	455	458	451	455	457	455	451	458	471	458	462	452	186	123	143	116	156	146	121	167	127	
SRev CCGT-Gas		185	218	189	181	170	182	193	186	195	192	182	187	187	184	191	302	361	180	178	196	509	742	884	918	974	982	865	699	675	479	420	355	215	113	115	342	336	384	173	133	61	56	76	60	117	82	153	96	
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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0
Syncon		551	487	638	825	825	825	825	825	825	926	926	926	926	926	1027	1027	926	775	825	638	638	638	638	638	825	825	825	825	825	638	638	638	638	638	638	674	825	825	151	0	0	0	0	0	0	0	87	87	
Hydro		280	370	227	132	173	187	215	217	216	162	101	117	121	119	163	132	135	64	197	176	242	195	194	238	136	54	136	85	154	215	233	144	179	179	231	216	95	157	417	477	164	164	254	408	456	422	433	502	
S.Reserve Total		1621	1697	1870	1991	1983	1924	1957	1964	2001	1963	1968	2008	1966	1970	2049	2226	2263	1906	1891	1885	2060	2237	2261	2280	2430	2367	2289	2064	2112	1783	1746	1594	1487	1381	1442	1703	1714	1828	1299	807	352	369	448	699	793	698	914	886	