

Daily System Generation Summary on Saturday

Saturday, July 16, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,454 MW
Distillate	0 MW
Total TNB	2,454 MW
Total IPP	18,945 MW
Total Co-Gen	0 MW
Total System	24,320 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,984	5.24 %
Gas	28,095	7.75 %
Total TNB	47,079	12.99 %
ST-Coal	222,137	61.28 %
LSS	4,876	1.35 %
Gas	87,856	24.24 %
Total IPP	314,869	86.86 %
Co-Gen	815	0.22 %
Total Co-Gen	815	0.22 %
Total Generation	362,763	100.07 %
PLTG	2,600	0.72 %
HVDC	-2,346	-0.65 %
Interconnection	254	0.07 %
Net Energy	362,509	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:	21:00:00 Hour
Total Set On Bus	18,020 MW
TNB Generation	3,044 MW
IPP Generation	13,847 MW
Spinning Reserve	1,095 MW
Maximum Demand	16,900 MW
Net Energy	362,509 MWH
Load Factor	89.38 %

Fuel Cost

Total Cost:	129,402,255.12 RM
Cost per Unit	35.68 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	775
Hydro	376
Syncon	552
Thermal	126
Total	1,829

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	1
TJGS	58
Total TNB	88
CBPS	42
EMPP	271
NPRI	131
PCGP	84
PLPS	2
SKSP	45
SPGP	103
Total IPP	678
Total Gas	766
Total Gas Required	766

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	15856	15166	14546	14144	13567	13305	13281	13187	13016	14155	14916	15469	15445	15336	15731	15970	16036	15932	15507	15578	16766	16900	16454	16166

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Saturday, August 6, 2022 10:18:52 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	704	705	707	705	708	706	705	707	708	705	709	709	713	707	706	705	707	707	706	707	708	704	705	706	705	706	705	706	703	704	708	709	706	706	706	705													
JMAH	U002	703	706	702	704	704	704	705	703	705	705	702	705	705	707	705	699	706	705	706	707	707	708	706	706	702	704	705	703	705	703	705	706	706	702															
JMHE	U001	981	978	981	979	981	980	910	848	848	852	847	848	849	853	850	853	852	850	921	973	978	976	981	977	976	981	977	976	981	977	976	984	976	976	976														
JMHE	U002	981	983	979	981	982	981	909	851	848	853	847	849	849	852	849	852	852	850	931	982	979	981	978	979	981	980	981	978	979	981	980	977	977	980	982	978	985	979	979										
JMJG	U001	672	671	672	674	612	657	666	666	672	642	664	663	672	668	670	664	668	666	672	658	667	666	665	666	667	649	662	666	667	671	668	667	666	662	665	667	667	666	667	666	667								
JMJG	U002	676	674	674	672	678	674	672	675	677	666	668	675	673	668	673	673	671	672	672	671	666	673	672	671	668	672	671	668	671	674	669	672	671	672	671	671	669	673	669	667									
JMJG	U004	974	975	971	972	974	972	963	904	852	853	852	855	854	854	854	848	854	852	894	954	978	980	974	979	979	980	976	975	979	979	981	980	981	978	979	981	980	977	977	980	980	978	977	978	976	976	980		
PKLG	U003	275	274	275	275	276	274	278	276	279	276	274	275	276	277	275	237	164	166	251	272	275	274	275	278	272	273	275	275	275	277	275	278	273	274	275	275	274	273	274	275	277	273	277	276	277	276	278	275	
PKLG	U004	253	250	249	251	253	252	254	255	252	250	256	250	249	254	254	203	152	154	240	254	252	253	251	249	251	252	249	252	252	247	254	254	251	251	250	251	254	252	253	252	252	255	251	255	254	254	253	254	
PKLG	U005	472	468	466	472	470	467	470	469	473	468	466	468	471	470	466	466	472	469	469	460	467	468	468	467	468	466	467	466	464	465	464	469	473	473	466	468	461	467	470	468	467	460	467	466	466	470	470	466	
PKLG	U006	455	446	449	451	449	450	449	449	449	450	448	449	447	449	447	449	448	453	450	253	265	267	269	262	272	273	278	279	309	397	445	448	446	448	451	450	452	450	446	450	448	447	448	447	448	448			
TBIN	U002	699	699	703	702	701	701	704	701	699	698	707	700	701	698	703	701	706	709	698	702	700	702	703	701	705	708	699	703	702	701	709	706	702	700	702	700	702	700	702	700	702	700	703	700	702	699	703	700	702
TBIN	U003	701	701	701	705	703	702	698	701	701	696	700	700	703	698	701	701	702	700	700	702	699	705	699	701	704	698	702	700	700	700	700	700	701	701	701	698	703	701	699	700	705	700	699	702	700	700			
TBIN	U004	938	941	938	937	937	940	918	853	855	855	852	852	852	853	852	854	853	855	892	934	932	857	853	854	853	853	853	853	853	852	854	852	852	853	854	852	855	854	854	855	853	854	856	853	855	854	853	853	852
Total ST-Coal		9484	9471	9467	9480	9428	9460	9301	9058	9018	8969	8992	8998	9014	9008	9007	8903	8806	8804	9194	9429	9461	9198	9191	9208	9202	9190	9199	9206	9192	9212	9238	9348	9389	9387	9377	9386	9384	9379	9394	9381	9381	9371	9388	9393	9378	9396	9384	9379	
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	
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	217	219	223	224	222	222	222	221	211	222	221	216	220	224	222	213	223	222	222	222	222	221	217	220	212	219	220	223	222	302	353	302	302	302	301	223	221	223	223	360	359	357	360	354	360	359	223	222	
EMPP	BLK1	689	694	709	608	518	410	420	412	396	437	408	406	409	417	410	397	420	438	444	489	550	710	710	710	700	668	687	697	708	714	708	700	700	702	702	702	700	703	702	703	702	704	703	699	708	716	710	708	
EMPP	BLK2	703	707	478	607	517	411	417	412	396	437	408	406	409	416	410	397	421	438	444	491	550	710	710	710	700	667	687	696	658	664	708	711	705	704	705	704	704	705	704	704	705	706	710	706	708	714	710	709	
EMPP	BLK3	688	461	493	606	520	412	417	412	396	446	408	405	409	416	409	397	428	443	422	468	550	710	710	710	701	672	691	701	667	687	707	700	703	705	705	704	703	705	705	705	705	705	711	705	708	715	710	709	
GLGR	GT02	93	94	94	93	94	94	94	94	94	93	93	93	94	94	94	94	94	94	94	94	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93		
GLGR	ST1C	41	41	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41		
NPRI	BLK1	391	307	311	311	309	311	310	308	295	311	309	302	307	313	310	298	311	311	310	311	320	397	491	494	472	317	317	317	320	488	516	511	515	515	515	513	517	514	331	399	517	518	513	518	509	514	521	515	322
NPRI	BLK2	391	305	311	308	331	346	342	335	320	401	335	328	333	365	334	321	374	354	334	335	335	334	391	335	322	333	332	335	508	527	489	497	525	525	523	394	340	371	494	520	524	516	520	511	517	523	519	520	
PCGP	PGRG	574	583	594	594	591	592	592	586	466	453	449	442	446	401	397	385	402	425	600	602	600	598	590	597	577	597	595	603	601	610	597	602	599	601	599	605	599	603	601	604	609	597	602	587	597	612	601	602	
PLPS	GT11	127	129	129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PLPS	ST18	59	57	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SKSP	BLK1	218	218	219	227	220	219	222	217	218	224	219	218	218	220	218	219	227	221	215	218	218	219	217	218	216	217	218	217	219	216	220	216	254	290	219	219	219	221	231	292	334	309	335	289	246	225	248	219	
SPGP	BLK1	720	718	718	717	719	720	719	720	718	500	500	500	503	450	450	450	441	706	720	721	719	719	716	718	712	709	712	705	707	706	703	704	707	705	704	707	703	703	704	708	708	712	715	719	720	722	724	723	
SPGP	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	81	108	208	324	343	
TJGS	GT2A	131	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	121	130	132	188	198	200	199	198	189	142	130	130		
TJGS	GT2B																																																	

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		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	22	17	29	12	19	15	18	16	23	30	21	30	23	25	26	30	14	19	7	4	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	14	80	127	183	240	358	424	452	639	602	651	633	708	656	646	557	587	583	529	405	323	223	103	38	6	0	0	0	0	0	0	0	0	0
PCUF	CUFG	29	29	29	29	28	29	28	29	28	27	28	28	29	28	29	29	29	29	29	29	29	28	28	28	27	27	29	28	28	28	30	27	28	28	27	28	28	29	29	28	27	29	29	28	29	29	27		
PCUF	CUFK	18	6	6	5	5	6	4	6	5	5	6	6	6	5	5	6	4	5	5	4	5	4	6	6	7	5	6	4	7	5	5	5	7	4	5	4	5	6	6	6	5	5	7	6	7	6	3		
Total Co-Gen		47	35	35	34	33	35	32	35	32	35	33	34	34	35	33	34	35	32	34	34	33	35	34	35	33	33	31	36	33	33	33	37	31	33	32	32	34	33	35	35	34	32	34	36	34	36	35	30	
Total Gen		15885	15417	15140	14861	14537	14273	14132	13848	13588	13480	13329	13300	13330	13264	13214	12892	13003	13576	14134	14564	14935	15280	15436	15595	15454	15277	15333	15498	15706	15886	15981	15997	16079	16110	16001	15709	15590	15411	15569	16274	16762	16958	16925	16709	16509	16328	16237	16061	
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		-98	-98	-97	-97	-98	-98	-98	-98	-98	-98	-98	-97	-97	-98	-98	-97	-97	-98	-98	-97	-97	-98	-98	-99	-99	-97	-97	-97	-97	-99	-99	-99	-99	-99	-99	-100	-99	-97	-97	-97	-97	-98	-98	-99	-97	-97	-99	-97	-98
TIE-PLTG		127	68	71	70	89	92	85	97	119	96	121	130	147	90	124	139	84	83	77	70	116	79	65	72	108	31	93	98	72	36	110	96	142	139	169	153	180	129	88	81	94	192	124	132	152	103	168	196	
Interconnection		29	-30	-26	-27	-9	-5	-12	-1	21	-1	24	32	49	-7	27	41	-13	-14	-21	-28	19	-18	-33	-27	9	-68	-3	1	-25	-61	11	-3	43	40	69	54	83	32	-9	-16	-4	94	25	35	55	4	71	99	
System Total		15856	15447	15166	14888	14546	14278	14144	13849	13567	13481	13305	13268	13281	13271	13187	12851	13016	13590	14155	14592	14916	15298	15469	15622	15445	15345	15336	15497	15731	15947	15970	16000	16036	16070	15932	15655	15507	15379	15578	16290	16766	16864	16900	16674	16454	16324	16166	15962	
SRev ST-Coal		105	106	110	97	140	117	276	413	394	457	423	419	418	417	412	476	458	459	367	148	116	105	112	95	101	113	144	137	151	131	105	95	97	99	109	100	102	107	92	105	105	115	98	93	108	90	102	107	
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	2	38	0	0	0	0
SRev CCGT-Gas		1150	1528	1506	1259	1531	1829	1811	1850	2057	2043	2217	2248	2238	2270	2317	2399	2233	1922	1769	1623	1418	862	725	769	865	1081	1023	980	705	536	430	528	507	465	436	883	882	1011	814	372	277	320	271	387	399	564	675	910	
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 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	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		500	500	500	587	587	587	587	587	587	587	587	587	587	587	587	601	776	675	675	675	675	675	675	675	675	675	675	675	675	675	588	675	675	675	675	588	675	675	675	500	126	126	126	126	500	500	500	500	
Hydro		361	426	425	447	446	446	443	448	459	531	532	537	533	475	475	526	501	382	338	346	329	345	346	348	348	346	337	302	300	299	323	352	322	329	332	327	368	341	332	310	499	497	562	556	353	564	580	537	
S.Reserve Total		2116	2560	2541	2390	2704	2979	3117	3298	3497	3618	3759	3791	3776	3836	3878	4175	3968	3438	3149	2792	2538	1987	1858	1887	1989	2215	2179	2094	1831	1641	1532	1650	1601	1568	1552	1984	2027	2134	1913	1287	1007	1060	1095	1162	1360	1718	1857	2054	