

Daily System Generation Summary on Saturday

Saturday, December 17, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,461 MW
Distillate	0 MW
Total TNB	2,461 MW
Total IPP	16,689 MW
Total Co-Gen	0 MW
Total System	22,844 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,642	4.64 %
Gas	54,110	16.05 %
Total TNB	69,752	20.69 %
ST-Coal	187,638	55.66 %
LSS	4,168	1.24 %
Gas	75,508	22.40 %
Total IPP	267,314	79.30 %
Co-Gen	566	0.17 %
Total Co-Gen	566	0.17 %
Total Generation	337,632	100.16 %
PLTG	-177	-0.05 %
HVDC	720	0.21 %
Interconnection	543	0.16 %
Net Energy	337,089	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:	19:30:00 Hour
Total Set On Bus	17,441 MW
TNB Generation	3,938 MW
IPP Generation	11,682 MW
Spinning Reserve	1,801 MW
Maximum Demand	15,639 MW
Net Energy	337,089 MWH
Load Factor	89.81 %

Fuel Cost

Total Cost:	127,685,724.76 RM
Cost per Unit	37.82 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,345
Hydro	572
Syncon	894
Thermal	167
Total	2,978

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	23

Gas Usage

Station	(mmscfd)
GLGR	0
TJGS	148
Total TNB	148
CBPS	35
EMPP	163
NPRI	145
PCGP	83
PGLA	43
PLPS	38
SKSP	0
SPGP	206
Total IPP	714
Total Gas	862
Total Gas Required	862

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	14425	13873	13412	12899	12608	12485	12453	12497	12518	13420	14219	14699	14483	14265	14613	14837	14903	14707	14556	14964	15591	15289	14745	14376

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, January 4, 2023 4:24:11 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	705	705	707	706	705	706	707	705	706	705	706	707	705	706	705	706	705	706	705	706	705	706	705	706
JMAH	U002	706	706	702	706	705	704	706	707	703	705	706	704	704	700	705	707	706	703	711	706	705	707	705	706
JMHE	U001	945	900	904	897	869	836	852	803	798	801	800	800	800	799	796	801	799	804	798	822	891	891	914	931
JMHE	U002	946	902	900	898	865	849	850	800	799	799	800	802	798	798	797	800	802	802	799	841	891	894	908	931
JMJG	U003	671	669	675	670	674	675	671	667	673	678	673	671	672	671	673	670	674	672	671	677	670	673	672	672
JMJG	U005	752	752	751	749	499	490	503	501	501	502	504	500	539	541	567	681	751	756	748	749	751	751	752	751
PKLG	U004	274	273	272	272	275	273	272	272	272	271	274	273	274	276	272	272	271	272	272	272	273	265	269	272
PKLG	U005	466	465	468	469	464	454	466	468	469	470	466	465	462	465	465	428	441	477	468	466	464	453	470	460
PKLG	U006	448	449	449	448	446	450	446	440	447	447	447	449	447	449	447	444	447	448	446	445	446	443	444	443
TBIN	U001	697	700	699	698	699	695	700	694	696	699	699	698	700	698	698	700	698	699	700	697	700	695	700	698
TBIN	U002	700	700	700	700	700	700	700	700	700	700	700	700	700	700	697	700	700	699	700	699	700	698	699	700
TBIN	U003	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670	670
Total ST-Coal		7980	7891	7897	7883	7571	7502	7543	7437	7433	7448	7444	7438	7475	7479	7494	7578	7664	7698	7682	7757	7864	7853	7908	7941
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
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
CBPS	BLK2	192	197	201	200	201	198	201	201	201	201	197	201	201	199	201	199	197	194	201	199	201	197	198	200
EMPP	BLK1	518	406	412	406	410	411	411	410	410	413	407	410	409	413	407	429	415	441	530	413	414	407	403	408
EMPP	BLK2	683	690	590	474	410	410	411	410	411	409	411	409	408	409	409	409	410	412	407	434	587	694	710	712
NPRI	BLK1	518	526	529	526	529	524	399	309	310	311	304	311	309	313	304	308	309	306	416	508	529	529	526	503
NPRI	BLK2	518	484	307	306	308	304	308	308	308	308	304	308	307	310	302	307	308	305	404	488	521	493	529	532
PCGP	PGRG	577	592	599	597	602	593	502	503	401	402	391	402	397	404	391	398	399	496	598	601	601	601	599	604
PGLA	GT12	144	144	145	145	145	145	145	145	145	144	144	145	144	145	144	145	144	144	144	144	143	143	143	143
PGLA	ST10	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
PLPS	GT13	132	135	135	138	137	138	138	138	137	137	137	138	137	138	138	138	138	138	138	142	142	141	141	138
PLPS	ST18	58	59	58	59	60	60	59	59	60	59	58	60	59	59	59	59	58	58	59	59	60	58	59	59
SKSP	BLK1	93	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	704	713	715	717	720	714	720	720	719	716	646	599	602	603	712	597	598	716	716	720	716	719	718	718
SPGP	BLK2	704	713	716	718	720	715	720	719	719	677	645	718	714	721	652	435	497	714	714	719	718	717	715	709
TJGS	GT1A	109	109	109	108	109	107	109	109	108	109	110	108	108	108	108	108	108	108	109	109	108	107	107	106
TJGS	GT1B	104	104	104	101	102	101	103	101	101	102	99	102	101	98	102	99	101	100	100	101	101	98	101	100
TJGS	ST1C	145	145	145	145	145	145	145	145	145	145	145	145	146	145	145	145	146	146	146	146	146	146	146	146
TJGS	GT2A	132	132	132	131	132	131	132	133	132	132	132	132	132	133	132	132	133	132	132	131	132	132	132	132
TJGS	GT2B	128	127	127	127	127	127	127	127	127	127	127	127	128	127	127	127	127	127	127	127	127	127	127	127
TJGS	ST2C	193	192	193	192	192	192	192	193	192	192	192	192	192	192	193	193	193	193	193	193	193	193	193	193
Total CCGT-Gas		5737	5553	5302	5175	5134	5100	4908	4814	4710	4671	4532	4594	4577	4602	4608	4295	4364	4791	5095	5334	5517	5630	5766	5634
GLGR	GT01	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 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
BSIA	HY01	24	24	24	24	24	24	24	24	24	11	12	12	12	12	12	12	12	12	12	22	22	22	22	22
BSIA	HY02	20	20	20	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	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
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
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
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
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

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		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	8	8	17	15	7	24	14	11	8	19	7	5	9	2	1	2	1	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	3	4	3	13	14	18	13	12	12	11	13	12	13	14	19	12	12	12	7	5	2	1	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	4	45	96	169	311	342	410	402	456	546	543	630	664	725	729	558	487	313	387	244	150	93	37	2	1	0	0	0	0	0	0	0	0	
ESTL	ESTL	15	15	15	13	13	13	13	13	14	14	16	14	12	11	14	15	15	13	14	12	12	12	19	18	17	17	19	18	14	9	12	12	15	17	16	13	13	14	11	12	13	12	13	17	14	14	15		
KHTC	BLK1	2	4	2	4	2	4	2	3	3	2	4	1	3	1	2	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	3	5	3	3	3			
PCUF	CUFG	3	5	4	3	4	4	4	4	3	4	3	3	4	3	3	3	3	3	4	4	3	2	4	4	3	5	4	4	3	2	4	3	2	4	4	4	4	3	5	4	3	3	3	3	4				
PCUF	CUFK	4	4	4	3	3	3	4	4	5	5	4	3	2	4	3	4	5	4	3	3	4	9	10	9	3	3	5	4	3	4	4	3	4	4	4	4	4	4	4	4	5	5	3	3	4	8			
PFTZ	PFTZ	4	1	1	1	0	0	0	0	0	1	0	0	0	1	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	1	1	0		
Total Co-Gen		28	29	26	24	22	24	23	24	25	26	28	21	20	21	23	26	24	23	24	19	19	19	31	32	30	23	27	27	22	15	18	20	19	20	24	24	21	21	21	20	20	25	21	24	30	26	25	30	
Total Gen		14469	14111	13821	13592	13429	13103	12930	12775	12647	12604	12531	12557	12529	12630	12571	12353	12544	13045	13410	13897	14221	14496	14707	14688	14477	14302	14295	14549	14673	14719	14825	14847	14917	14904	14778	14607	14564	14601	15012	15640	15619	15476	15321	15158	14781	14588	14444	14239	
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		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30			
TIE-PLTG		14	-39	-82	23	-13	-4	1	1	9	-3	16	-20	46	-5	44	-3	-4	-47	-40	-51	-28	-43	-22	-47	-36	14	0	25	30	18	-42	-33	-16	32	41	22	-22	-35	18	-29	-2	-36	2	-29	6	-2	38	-15	
Interconnection		44	-9	-52	53	17	26	31	31	39	27	46	10	76	25	74	27	26	-17	-10	-21	2	-13	8	-17	-6	44	30	55	60	48	-12	-3	14	62	71	52	8	-5	48	1	28	-6	32	1	36	28	68	15	
System Total		14425	14120	13873	13539	13412	13077	12899	12744	12608	12577	12485	12547	12453	12605	12497	12326	12518	13062	13420	13918	14219	14509	14699	14705	14483	14258	14265	14494	14613	14671	14837	14850	14903	14842	14707	14555	14556	14606	14964	15639	15591	15482	15289	15157	14745	14560	14376	14224	
SRev ST-Coal		143	231	226	235	236	256	232	239	237	225	229	237	296	291	272	294	260	231	238	228	241	256	215	182	164	179	190	180	174	177	192	184	172	181	181	178	180	191	125	121	82	72	81	79	70	109	94	79	
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	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		1581	1415	1666	1793	1834	1868	2060	2154	2258	2297	2436	2374	2391	2366	2360	2673	2604	2177	1873	1634	1451	1338	1202	1334	1649	1720	1805	1646	1595	1454	1209	1207	889	908	910	1015	996	925	801	725	782	935	1035	996	1097	1295	1373	1506	
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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		829	1016	1016	1016	829	928	866	1016	1016	1016	865	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	865	1016	1016	1016	1016	1016	1016	865	1016	1016	1016	1016	1016	953	1104	1104	1104	829	554	554	554	554	554	741	590	741	741	
Hydro		659	558	600	461	456	495	491	447	468	488	500	587	483	412	494	490	493	492	489	453	450	546	419	444	446	525	527	525	616	554	510	445	514	474	619	443	443	411	415	401	403	408	450	657	674	841	713	655	
S.Reserve Total		3299	3307	3595	3592	3442	3721	3736	3943	4066	4113	4268	4150	4273	4172	4229	4560	4460	4003	3703	3418	3245	3092	2939	3063	3362	3527	3625	3511	3337	3288	3014	2939	2678	2666	2663	2740	2723	2631	2170	1801	1821	1969	2120	2286	2669	2922	3008	3068	