

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,480 MW
Distillate	0 MW
<b>Total TNB</b>	<b>2,480 MW</b>
<b>Total IPP</b>	<b>17,286 MW</b>
<b>Total Co-Gen</b>	<b>0 MW</b>
<b>Total System</b>	<b>22,754 MW</b>

### Generation Mix

Type	MWh	Percentage
Hydro	14,534	4.39 %
Gas	35,275	10.66 %
<b>Total TNB</b>	<b>49,809</b>	<b>15.06 %</b>
ST-Coal	184,601	55.81 %
LSS	5,526	1.67 %
Gas	89,237	26.98 %
<b>Total IPP</b>	<b>279,364</b>	<b>84.45 %</b>
Co-Gen	632	0.19 %
<b>Total Co-Gen</b>	<b>632</b>	<b>0.19 %</b>
<b>Total Generation</b>	<b>329,805</b>	<b>99.70 %</b>
PLTG	-205	-0.06 %
HVDC	-782	-0.24 %
<b>Interconnection</b>	<b>-987</b>	<b>-0.30 %</b>
<b>Net Energy</b>	<b>330,792</b>	<b>100.00 %</b>

### 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:	20:00:00 Hour
Total Set On Bus	16,866 MW
TNB Generation	2,996 MW
IPP Generation	12,466 MW
Spinning Reserve	1,375 MW
Maximum Demand	15,492 MW
Net Energy	330,792 MWH
Load Factor	88.97 %

### Fuel Cost

Total Cost:	107,954,849.30 RM
Cost per Unit	32.73 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	443
Hydro	630
Syncon	734
Thermal	466
<b>Total</b>	<b>2,273</b>

### Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Cloudy	26

### Gas Usage

Station	(mmscfd)
GLGR	45
TJGS	88
<b>Total TNB</b>	<b>133</b>
CBPS	2
EMPP	307
NPRI	161
PCGP	88
SPGP	105
<b>Total IPP</b>	<b>663</b>
<b>Total Gas</b>	<b>796</b>
<b>Total Gas Required</b>	<b>796</b>

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

### 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	13971	13416	12964	12486	12355	12112	12266	12353	12214	13213	13938	14364	14209	13869	14335	14488	14531	14523	14305	14539	15492	15322	14808	14457

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, February 8, 2023 10:02:04 AM  
 (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																										
ESTL	ESTL	14	14	14	14	11	14	14	14	11	15	15	13	12	10	14	15	15	14	16	13	8	15	13	12	15	15	15	16	13	14	16	14	9	18	18	16	14	19	18	14	18	18	13	12	11	10	12	8		
KHTC	BLK1	3	0	3	2	3	3	2	3	2	3	1	3	2	4	3	2	1	0	0	0	0	0	0	0	0	0	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	3	4	4	4	3	3	4	3	4	3	4	3	4	4	4	4	2	4	5	3	4	2	4	3	3	3	3	2	4	3	5	3	5	2	4	4	4	3	3	3	3	4	2	4	3	4			
PCUF	CUFK	5	6	6	5	5	6	3	5	5	6	5	5	4	4	4	5	6	5	5	5	5	3	6	6	4	4	3	5	3	6	4	5	6	5	4	5	5	5	6	5	5	4	6	6	5	5	4	4		
PFTZ	PFTZ	2	3	2	2	2	3	2	2	2	2	2	2	2	4	3	4	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	2	2	2	4	4	4	4	4	4	3	2		
Total Co-Gen		27	26	29	27	25	29	24	28	23	30	26	27	25	25	27	30	30	31	27	17	28	27	22	26	24	26	25	25	23	28	25	22	28	31	26	26	31	29	24	29	31	26	26	26	26	24	26	21		
Total Gen		13936	13633	13325	13101	12893	12709	12444	12337	12224	12156	12072	12117	12215	12228	12334	12265	12143	12800	13148	13500	13820	14181	14431	14514	14263	14029	13883	14043	14318	14452	14456	14415	14458	14394	14504	14362	14288	14228	14519	15137	15491	15377	15300	14992	14705	14536	14418	14284		
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	0	
TIE-HVDC		-30	-30	-28	-31	-28	-30	-30	-28	-31	-31	-29	-28	-31	-28	-31	-28	-31	-49	-50	-50	-47	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-30	-30	-30	-28	-28	-49	-49	-49	-49	-31	-28	-29	-28	-28	-28	-28			
TIE-PLTG		-5	-42	-63	-18	-43	-1	-12	-20	-100	-20	-12	10	-20	-43	12	-23	-43	-35	-34	-31	-87	54	117	150	101	29	43	-35	12	20	-2	-52	-44	-21	11	13	13	-76	8	-20	48	6	27	-60	-75	-36	-10	-3		
Interconnection		-35	-73	-91	-48	-71	-31	-42	-48	-131	-50	-40	-18	-51	-70	-19	-52	-71	-64	-65	-59	-118	5	67	100	54	0	14	-64	-17	-10	-32	-80	-73	-51	-19	-17	-17	-104	-20	-69	-1	-44	-22	-91	-103	-65	-39	-31		
System Total		13971	13706	13416	13149	12964	12740	12486	12385	12355	12206	12112	12135	12266	12298	12353	12317	12214	12864	13213	13559	13938	14176	14364	14414	14209	14029	13869	14107	14335	14462	14488	14495	14531	14445	14523	14379	14305	14332	14539	15206	15492	15421	15322	15083	14808	14601	14457	14315		
SRev ST-Coal		1237	1303	1309	1305	1612	1548	1555	1545	1556	1556	1548	1546	1557	1557	1492	1368	1149	956	681	578	596	583	563	571	532	530	557	578	565	581	582	573	576	578	538	519	526	516	396	311	189	142	111	119	129	260	261	259		
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	0
SRev CCGT-Gas		538	528	638	355	151	294	310	353	295	183	277	228	200	156	257	239	376	309	425	465	372	316	354	454	673	932	1068	741	385	300	330	328	247	291	202	189	212	224	291	145	202	306	297	303	370	270	223	208		
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	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	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	0
Syncon		739	840	840	840	840	840	840	840	928	928	928	777	928	827	827	928	928	928	827	827	676	676	676	827	928	928	928	928	928	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	
Hydro		617	538	533	597	554	496	458	501	561	487	490	501	586	446	411	538	543	530	532	546	446	407	507	588	673	628	630	623	579	617	621	621	619	620	722	636	825	661	851	893	707	741	853	872	794	798	829	735		
S.Reserve Total		3131	3209	3320	3097	3157	3178	3163	3239	3252	3154	3243	3203	3120	3087	2987	2972	2996	2723	2566	2416	2241	1982	2100	2289	2705	3018	3183	2870	2457	2325	2360	2349	2269	2316	2289	2272	2239	2078	2178	1802	1375	1466	1538	1846	2133	2168	1840	1916		