

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,473 MW
Distillate	0 MW
<b>Total TNB</b>	<b>2,473 MW</b>
<b>Total IPP</b>	<b>17,125 MW</b>
Total Co-Gen	0 MW
<b>Total System</b>	<b>23,179 MW</b>

### Generation Mix

Type	MWh	Percentage
Hydro	13,312	3.52 %
Gas	60,039	15.89 %
<b>Total TNB</b>	<b>73,351</b>	<b>19.41 %</b>
ST-Coal	205,077	54.28 %
LSS	3,576	0.95 %
Gas	96,700	25.59 %
<b>Total IPP</b>	<b>305,353</b>	<b>80.82 %</b>
Co-Gen	-1,471	-0.39 %
<b>Total Co-Gen</b>	<b>-1,471</b>	<b>-0.39 %</b>
<b>Total Generation</b>	<b>377,233</b>	<b>99.84 %</b>
PLTG	13	0.00 %
HVDC	-614	-0.16 %
<b>Interconnection</b>	<b>-601</b>	<b>-0.16 %</b>
<b>Net Energy</b>	<b>377,834</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

### Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,972 MW
TNB Generation	3,937 MW
IPP Generation	14,124 MW
Spinning Reserve	981 MW
Maximum Demand	18,031 MW
Net Energy	377,834 MWH
Load Factor	87.31 %

### Fuel Cost

Total Cost:	91,310,690.34 RM
Cost per Unit	24.05 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	411
Hydro	357
Syncon	527
Thermal	144
<b>Total</b>	<b>1,439</b>

### Time Weather Temperature

Afternoon	Rainy	30
Morning	Cloudy	26

### Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	162
<b>Total TNB</b>	<b>193</b>
CBPS	48
EMPP	281
NPRI	143
PCGP	85
PLPS	54
SKSP	21
SPGP	203
<b>Total IPP</b>	<b>833</b>
<b>Total Gas</b>	<b>1,026</b>
<b>Total Gas Required</b>	<b>1,026</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	14652	13971	13423	13091	12721	12580	13094	13327	14021	15737	16682	17198	17113	16832	17417	17862	17923	17647	16653	17049	17480	17232	16842	16357

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, December 6, 2023 6:00:12 Head  
PM  
(Ir. Shanmugam Thoppalan)  
Grid System Operator

### Daily MW Generation on Monday

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	696	692	696	696	697	696	695	697	695	696	695	696	695	697	697	697	696	696	696	697	695	695	695	697	695	695	701	694	697	697	694	697	695	695																	
JMAH	U002	697	692	696	695	694	695	695	696	696	694	696	696	695	697	697	693	694	695	694	696	696	697	696	694	697	695	695	694	696	696	696	696	696	696	695	695															
JMHE	U001	951	898	902	903	900	900	899	852	849	852	850	849	848	850	885	950	950	949	949	945	949	949	943	947	955	948	952	951	946	950	951	957	949	951	949	955	949	947	949	951	952	949	947	948	955	944					
JMHE	U002	975	903	897	902	899	901	897	849	850	851	847	850	848	850	849	850	881	974	980	981	978	977	980	978	977	981	983	978	979	981	976	984	981	985	979	979	978	980	976	976	977	980	980	979	976	976	981	976			
JMIG	U001	657	651	644	645	651	654	645	659	644	641	599	640	651	677	671	686	668	667	678	672	677	669	667	672	673	670	676	672	668	656	675	666	668	671	667	666	667	664	661	667	662	668	666	671	668	666	663	664			
JMIG	U003	685	665	681	668	674	670	674	669	673	671	672	669	671	671	672	678	673	671	671	672	673	666	671	675	668	673	678	671	672	679	670	670	669	671	671	672	673	665	670	672	673	672	672	671	676	672	671				
JMIG	U005	977	932	898	903	906	900	902	836	801	800	799	798	804	803	850	850	866	976	982	978	979	976	977	974	980	977	977	977	985	978	977	973	979	977	977	979	976	975	981	974	976	973	962	977	977	977	978	979			
PKLG	U003	278	277	278	278	279	278	274	274	276	277	275	277	276	275	274	277	275	276	275	274	273	275	276	275	274	273	275	276	277	274	276	275	275	276	275	276	276	273	274	274	276	276	277	277	276	277	276	277			
PKLG	U004	279	275	272	272	275	274	268	273	273	276	272	273	273	272	269	270	272	275	272	275	272	275	272	275	272	275	272	275	276	277	274	276	275	275	276	276	273	274	274	276	276	277	277	276	277	276	277	276	277		
PKLG	U005	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470	470		
TBIN	U001	690	689	691	689	690	689	689	686	687	688	691	689	689	689	687	689	691	690	689	689	689	691	689	690	689	687	690	691	691	689	688	690	689	690	689	690	689	689	690	689	690	689	690	689	690	689	689	690	689	689	
TBIN	U002	690	688	689	692	687	686	689	690	689	689	689	689	689	691	690	692	687	689	689	688	688	691	690	690	690	688	689	690	688	689	693	690	689	691	689	688	692	689	688	689	688	689	688	689	686	689	690	685	688		
TBIN	U003	688	686	687	686	687	688	687	687	685	687	687	688	687	687	689	688	685	688	687	687	690	688	687	688	687	689	688	688	688	688	685	687	687	688	686	686	688	687	688	685	688	687	687	685	688	688	685	685	685		
Total ST-Coal		8733	8518	8501	8499	8509	8501	8484	8338	8288	8286	8244	8282	8298	8326	8359	8392	8449	8715	8738	8730	8733	8707	8719	8679	8603	8587	8611	8594	8596	8592	8589	8586	8591	8607	8584	8588	8584	8579	8578	8584	8579	8584	8581	8584	8592	8590	8590	8579			
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	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	0	0	0	
CBPS	BLK2	211	213	210	210	210	211	206	213	211	211	212	223	371	365	361	363	360	361	354	359	357	361	361	366	361	366	362	368	361	359	357	361	361	361	358	362	362	359	356	357	360	354	360	354	360	354	360	354			
EMPP	BLK1	709	690	526	411	409	410	407	417	409	409	410	409	425	458	419	434	583	716	725	715	710	710	710	700	685	703	702	710	711	718	707	716	712	732	710	712	693	706	709	711	707	710	706	711	690	690	701	686	686		
EMPP	BLK2	709	689	517	410	409	411	407	424	410	410	410	429	459	423	442	587	715	725	715	710	710	711	700	686	711	697	710	712	717	706	715	711	728	710	712	695	709	709	711	708	710	711	711	689	691	707	686	686			
EMPP	BLK3	709	708	686	506	518	411	406	423	410	410	410	425	461	420	443	584	716	726	715	710	710	711	711	684	711	699	711	711	718	708	715	711	730	709	711	695	708	709	711	707	710	712	712	689	689	708	686	686			
GLGR	GT01	96	96	95	95	95	96	95	96	95	97	94	95	96	96	95	96	97	97	98	110	109	110	110	109	110	110	109	109	109	109	109	109	109	109	109	97	96	108	110	108	110	110	109	95	94	95	94	94			
GLGR	ST1C	41	42	42	42	41	42	42	42	42	41	42	42	42	42	41	42	42	42	42	47	47	48	48	47	47	48	48	47	48	48	48	48	48	48	48	43	42	45	48	47	48	48	47	48	41	41	41	41			
NPRI	BLK1	316	316	316	316	316	314	308	316	317	316	315	317	320	317	315	316	318	526	533	526	520	524	515	515	505	511	510	515	520	514	518	516	518	516	513	510	514	516	517	512	515	517	514	509	508	514	505	505			
NPRI	BLK2	359	324	323	320	323	321	316	323	322	323	322	324	333	322	320	322	323	368	527	471	515	518	521	523	511	519	517	523	522	529	520	526	521	526	521	519	516	520	523	523	518	523	523	520	515	514	520	511	511		
PCGP	PGRG	604	600	603	600	602	396	390	405	400	402	399	403	409	604	601	603	602	613	629	615	601	608	603	603	583	596	593	602	602	615	597	615	605	635	604	594	592	598	602	600	593	606	602	595	588	590	598	581	581		
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	46	46	46	55	149	141	142	143	145	145	144	143	145	144	145	140	148	114	112	113	120	130	115	115	124	114	111	111	124	126	126	126	126	126		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	142	137	138	138	138	142	139	142	138	146	112	113	111	112	119	127	114	113	123	112	111	111	111	111	111	111	111	111	111	111
PLPS	ST18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	60	59	58	142	142	141	142	142	145	207	210	209	211	199	195	193	194	200	206	198	197	205	197	196	196	155	60	60	60	60
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	0	0	0	0	0	0	0	0	0	0	0	0	
SPGP	BLK1	720	719	718	715	418	709	645	551	550	552	502	551	657	720	720	720	720	720	731	723	718	718	719	715	703	708	704	703	719	705	704	702	710	713	717	716	712	718	719	718	717	718	715	710	710	716	709	716	709		
SPGP	BLK2	715	716	713	713	716	713	645																																												



