

#### Availability at Daily Maximum Demand Hour

ST-Coal	8,717 MW
ST-Gas	296 MW
ST-Oil	0 MW
LSS	1,640 MW
Hydro	2,162 MW
Distillate	0 MW
Others	0 MW
Gas	8,871 MW
Co-Gen	0 MW
<b>Total System</b>	<b>21,686 MW</b>
<b>Total System w/o solar</b>	<b>20,046 MW</b>

#### Maximum Demand Record

Date: 7/25/2024	20,066 MW
Date: 7/25/2024	428,610 MWH

#### Gas Usage

Station	(mmscfd)
SRDG	4
TJGS	174
CBPS	45
EMPP	296
KLPP	92
NPRI	144
PCGP	87
PGLA	37
SGRI	121
SKSP	49
SPGP	107
PKLG	0
<b>Total Gas</b>	<b>1,157</b>

#### Alternate Fuel Usage

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

#### Set On Bus And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	20,655 MW
Spinning Reserve	778 MW
Maximum Demand	19,981 MW
Net Energy	419,129 MWH
Load Factor	87 %
Operating Reserve	65 MW

#### Generation Mix

Type	MWh	Percentage
ST-Coal	204,929	48.89 %
ST-Gas	35	0.01 %
LSS	11,845	2.83 %
Hydro	25,026	5.97 %
Gas	176,246	42.05 %
Co-Gen	861	0.21 %
<b>Total Generation</b>	<b>418,942</b>	<b>99.96 %</b>
PLTG	960	0.23 %
EGAT	6	0.00 %
HVDC	-1,153	-0.28 %
<b>Interconnection</b>	<b>-187</b>	<b>-0.04 %</b>
<b>Net Energy</b>	<b>419,129</b>	<b>100.00 %</b>

#### Fuel Cost

Total Cost:	105,886,919.24 RM
Cost per Unit	25.27 cents/kWH

#### Average Spinning Reserve During Peak Hour

Type	MW
GT	875
Hydro	524
Syncon	154
Thermal	168
<b>Total</b>	<b>1,721</b>

**Total Gas Required 1,157**

#### Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

#### 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	17461	16529	15933	15354	14990	14694	14946	14792	15100	16582	17289	17830	17661	17507	18359	19110	19454	19430	18519	18928	19949	19832	19330	18809

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, October 25, 2024 3:23:15 PM

(Ir. Shanmugam Thoppalan)  
Head  
Grid System Operator

### Daily MW Generation on Tuesday

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	U002	696	698	697	694	694	691	697	695	693	690	695	699	695	698	697	696	692	696	689	696	695	694	696	697	695	693	695	688	696	696	695	697	695	699	703	702	703	708	704	703	706	706									
JMHE	U001	933	937	931	933	929	939	933	933	931	931	933	934	931	933	934	939	934	937	933	938	933	933	935	856	800	850	845	848	850	850	851	850	855	843	845	907	936	935	937	933	937	936	931	935	939	933					
JMHE	U002	972	978	972	973	929	976	979	974	974	974	974	973	972	975	973	976	973	971	978	973	973	971	972	969	973	968	973	972	974	971	970	975	967	969	967	972	970	973	969	972	969	971	965	971	978	969					
JMJG	U001	357	357	357	357	357	357	357	369	365	371	364	369	376	369	369	365	361	361	363	363	362	365	366	364	354	348	343	349	350	353	351	349	345	344	349	348	351	365	372	390	406	421	424	420	425	426	424				
JMJG	U002	672	672	672	672	672	672	672	672	675	672	670	674	672	671	671	671	671	672	666	669	668	673	671	669	670	671	668	670	671	676	669	674	668	656	684	662	677	673	667	676	666	671	667	678	670	662	676	666			
JMJG	U003	666	666	666	666	666	666	679	662	669	667	666	666	669	669	669	668	667	666	668	671	669	670	668	666	669	668	671	663	672	664	666	665	667	670	663	667	673	670	670	668	669	671	662	667	663	667	679				
JMJG	U005	975	975	975	975	975	975	974	972	975	974	973	976	973	973	973	973	973	973	972	976	973	975	974	976	976	980	978	973	974	976	975	980	977	973	977	977	976	978	978	974	977	975	979	977	977	977	975				
PKLG	U003	278	276	276	276	275	274	277	278	277	278	278	277	277	277	277	277	278	278	276	267	201	201	219	277	278	277	276	278	276	280	279	279	278	277	279	277	276	278	283	275	276	280	278	277	278						
PKLG	U005	472	468	468	468	469	468	467	468	469	466	468	469	468	468	468	466	463	464	469	473	468	466	459	463	461	462	463	463	464	468	468	463	461	468	463	470	468	479	463	469	468	470	470	470							
PKLG	U006	468	466	465	470	473	471	468	466	466	466	469	469	470	468	467	465	466	469	468	469	463	465	468	468	466	467	468	466	466	466	466	466	466	466	468	468	468	465	465	466	467	466	468	466	463	466	465				
TBIN	U001	689	689	687	689	688	688	689	688	687	690	690	689	690	686	689	691	690	689	689	688	688	689	689	686	690	688	689	690	690	690	688	689	688	691	690	693	689	703	699	697	699	698	697	699	700	696					
TBIN	U002	688	691	686	687	689	683	687	688	688	691	687	688	687	688	687	687	687	687	687	691	685	688	689	688	690	688	689	686	686	687	687	687	687	691	692	687	689	691	688	688	699	700	700	700	697	696	698	702	697		
TBIN	U003	686	687	685	687	686	686	686	685	688	687	686	686	687	686	686	685	685	687	687	687	687	687	689	687	688	688	683	687	688	686	685	689	687	691	688	687	686	689	687	686	698	696	700	697	698	696	698	697	697		
Total ST-Coal		8552	8560	8537	8547	8544	8546	8553	8569	8546	8560	8553	8567	8571	8557	8563	8559	8557	8552	8541	8543	8568	8545	8482	8482	8402	8404	8450	8433	8443	8457	8449	8451	8462	8444	8454	8441	8516	8551	8553	8610	8613	8648	8659	8658	8638	8640	8681	8655			
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	0	
PKLG	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0
CBPS	BLK2	361	359	352	260	197	201	201	197	202	200	202	200	201	201	199	187	201	201	201	198	202	200	237	357	313	201	198	195	241	363	361	362	365	362	362	363	357	363	366	368	365	360	361	361	348	357	362	357			
EMPP	BLK1	730	713	702	730	712	638	447	408	412	413	424	534	723	730	470	392	417	695	730	722	735	729	728	711	700	728	520	705	723	731	731	730	729	731	729	730	718	726	730	734	734	733	739	741	717	737	700	712			
EMPP	BLK2	729	731	720	730	726	729	730	660	375	375	375	374	500	501	482	501	599	731	726	734	730	728	722	712	729	729	722	726	732	731	729	730	732	730	730	722	731	735	733	734	732	730	731	711	730	730	726				
EMPP	BLK3	700	701	690	700	696	699	699	697	700	539	499	500	499	500	501	482	501	699	700	696	704	699	698	698	687	699	699	691	700	703	702	699	704	707	700	700	697	701	708	711	705	700	699	700	689	701	701	696			
KLPP	BLK1	385	243	240	253	240	239	239	240	240	239	243	240	251	250	240	228	241	238	256	464	659	673	683	682	679	678	679	679	678	677	675	660	655	650	649	650	649	650	546	655	656	658	659	660	658	659	658	369			
NPRI	BLK1	518	515	506	520	513	517	461	306	313	313	313	312	313	313	309	303	321	320	400	515	313	419	515	511	503	311	307	478	526	523	524	523	520	519	521	521	517	525	527	527	528	524	526	527	508	521	527	521			
NPRI	BLK2	523	506	499	525	506	450	373	330	334	333	334	334	334	334	331	314	334	335	412	358	406	482	527	514	503	413	331	380	513	525	520	523	520	518	521	521	508	521	527	527	530	506	523	523	490	506	482	460			
PCGP	BLK1	603	595	577	604	591	600	603	590	601	602	432	402	402	603	600	551	604	600	603	598	604	598	598	590	572	602	593	587	598	610	604	602	611	619	600	606	590	606	616	624	613	598	604	602	567	590	606	591			
PGLA	BLK1	312	306	301	309	309	233	232	464	463	465	466	467	402	234	232	223	234	234	234	231	233	233	233	230	226	234	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	115	188	192	229	318	319	318	
PIPP	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		
SGRI	BLK1	168	164	162	169	161	164	161	166	163	165	163	166	169	168	162	154	164	163	161	164	169	164	161	166	163	164	163	164	165	171	186	365	445	558	550	560	514	526	531	530	530	624	523	517	512	517	443	349			
SGRI	BLK2	343	345	345	223	164	166	167	166	167	166	165	166	170	165	166	160	166	165	166	166	169	167	167	166	159	238	387	577	521	533	519	519	531	534	521	529	517	530	536	535	536	555	519	517	502	354	345	242			
SKSP	BLK1	218	218	217	215	219	218	217	219	217	217	215	216	217	219	218	216	217	216	218	217	218	218	218	218	217	217	218	218	277	335	338	337	336	338	338	336	245	313	338	344	345	341	344	342	344	231	217				
SPGP	BLK1	718	719	719	719	718	718	718	719	718	719	718	719	718	719	718	718	718	718	717	719	718	707	715	707	707	706	706	706	705	706	705	706	705	706	715	716	717														

### Daily MW Generation on Tuesday

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																														
TMGR	HYDR	135	135	127	69	67	33	33	32	33	33	33	33	32	28	33	33	32	85	85	116	116	113	116	116	116	116	183	183	180	185	177	132	132	132	133	334	334	331	331	331	321	331	287	281										
UJLI	HYDR	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	95	93	87	-2	-2	85	88	92	181	186	223	209	194	111	92	-2	190	368	368	223	164	97	83	92	90	-2										
Total Hydro		1156	1164	1158	837	789	657	655	657	659	665	664	691	696	696	656	640	661	715	684	673	744	810	875	871	858	785	779	878	889	934	1052	1057	1240	1465	1459	1167	979	905	1369	2088	2087	1936	1813	1747	1594	1523	1438	1348						
Total Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 Solar		0	0	0	0	0	0	0	0	0	0	0	0	0	2	91	276	606	843	1023	1198	1325	1344	1442	1433	1467	1535	1582	1526	1475	1389	1338	1146	980	777	532	268	92	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	16	14	6	15	8	2	14	0	14	13	1	6	8	7	7	7	7	17	14	12	6	11	16	14	14	14	15	14	13	10	8	9	10	4	4	16	12	17	16	12	6	6	11	8	7	12	13	12	11					
KHTC	BLK1	6	6	6	8	9	11	12	11	13	15	5	7	6	6	4	7	7	5	8	2	3	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	6	5	10	11							
PCUF	CUFG	8	10	10	9	8	8	8	7	7	7	8	7	7	8	7	7	8	7	8	7	8	7	8	8	9	10	10	9	9	8	10	10	9	11	10	9	11	10	10	12	17	20	20	19	20	20	20							
PCUF	CUFK	20	19	19	20	19	20	19	20	21	21	22	21	20	20	21	22	22	18	17	16	15	14	12	13	9	12	11	10	12	11	11	8	9	10	9	10	10	11	10	10	10	10	10	10	10	10	10	10	10	10				
Total NEDA Co-Gen		50	49	41	52	44	41	53	38	55	56	36	41	41	41	39	43	54	44	44	32	36	41	37	39	36	37	35	32	31	28	28	28	23	22	37	31	36	37	33	26	28	41	45	44	51	52	55	56						
Total NEDA Solar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 Generation		17419	17022	16612	16251	15985	15669	15363	15279	15023	14880	14663	14787	14937	15082	14766	14573	15022	15957	16497	16902	17265	17606	17804	17955	17713	17465	17525	18022	18360	18850	19226	19407	19532	19840	19624	19096	18551	18290	18868	19808	19827	19874	19730	19663	19290	19232	18775	18041						
KHTC	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	0			
Total Franchise Area		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Singapore		-11	58	114	28	85	66	43	68	66	42	1	9	23	9	5	-8	-46	-34	-53	-27	9	3	7	24	84	52	42	69	21	30	130	136	93	105	208	94	50	-40	-33	-48	24	43	49	78	109	86	-3	60						
Thailand		-28	-28	-28	-28	-30	-30	-30	-30	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-28	-30	-28	-30	-29	-29	-29	-29	-29	-29	-28	-28	-30	-27	-29	-29	-29	-29	-29	-29	-29	-96	-145	-147	-148	-145	-146	-27	-27	-287						
Interconnection		-39	30	86	0	55	36	12	38	36	14	-28	-20	-6	-19	-23	-37	-75	-64	-82	-55	-21	-25	-23	-5	55	22	12	40	-8	1	102	108	62	78	179	65	21	-69	-62	-144	-120	-104	-99	-67	-37	59	-31	-226						
Total Demand		17461	16995	16529	16254	15933	15636	15354	15244	14990	14869	14694	14810	14946	15104	14792	14613	15100	16024	16582	16960	17289	17634	17830	17963	17661	17440	17507	17973	18359	18837	19110	19281	19454	19746	19430	19018	18519	18353	18928	19952	19949	19981	19832	19733	19330	19176	18809	18270						
SRev ST-Coal		165	157	180	170	173	171	164	148	171	157	164	150	146	160	154	158	160	165	176	174	149	172	149	149	265	173	177	194	184	170	178	176	165	183	173	186	168	166	164	107	124	109	138	139	159	157	96	122						
SRev CCGT-Gas		1206	1217	1318	1376	1440	1547	1870	2187	2439	2603	2792	2714	2573	2184	2466	2732	2498	1931	1739	1567	1480	1314	1133	1078	1215	1570	1982	1326	1189	784	457	420	445	446	448	420	593	740	569	417	425	451	611	609	780	541	892	1057						
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	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	0	0	0		
SRev Co-Gen		0	2	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Syncon		374	187	187	274	274	512	512	512	512	512	512	512	512	512	512	512	361	512	512	512	512	362	361	361	548	548	361	361	361	0	0	0	0	0	0	187	187	374	0	0	0	187	187	187	187	187	187	187	374					
Hydro		525	566	572	569	617	263	265	263	261	255	256	229	224	224	264	280	259	356	236	247	176	296	618	623	636	522	528	640	653	608	851	846	663	463	694	749	862	749	659	65	66	217	103	169	322	343	428	331						
S.Reserve Total		2270	2129	2258	2390	2504	2493	2811	3110	3383	3527	3723	3606	3454	3078	3396	3682	3429	2813	2663	2500	2319	2294	2262	2211	2476	2814	3235	2522	2387	1923	1486	1473	1305	1092	1315	1541	1810	2029	1392	594	617	778	1039	1105	1485	1229	1603	1884						