

### Availability at Daily Maximum Demand Hour

ST-Coal	10,052 MW
ST-Gas	590 MW
ST-Oil	0 MW
LSS	1,590 MW
Hydro	1,779 MW
Distillate	0 MW
Others	0 MW
Gas	9,706 MW
Co-Gen	0 MW
<b>Total System</b>	<b>23,717 MW</b>
<b>Total System w/o solar</b>	<b>22,127 MW</b>

### Maximum Demand Record

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

### Gas Usage

Station	(mmscfd)
GLGR	34
SRDG	11
TJGS	118
EMPP	278
KLPP	13
NPRI	130
PCGP	84
PGLA	94
SKSP	15
SPGP	200
<b>Total Gas</b>	<b>978</b>

### Alternate Fuel Usage

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

### Set On Bus And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	20,445 MW
Spinning Reserve	610 MW
Maximum Demand	19,844 MW
Net Energy	407,305 MWH
Load Factor	86 %
Operating Reserve	2,746 MW

### Generation Mix

Type	MWh	Percentage
ST-Coal	235,854	57.91 %
LSS	9,304	2.28 %
Hydro	13,014	3.20 %
Gas	147,576	36.23 %
Co-Gen	1,093	0.27 %
<b>Total Generation</b>	<b>406,841</b>	<b>99.89 %</b>
PLTG	-5	0.00 %
HVDC	-459	-0.11 %
<b>Interconnection</b>	<b>-464</b>	<b>-0.11 %</b>
<b>Net Energy</b>	<b>407,305</b>	<b>100.00 %</b>

### Fuel Cost

Total Cost:	97,013,446.61 RM
Cost per Unit	23.83 cents/kWH

**Total Gas Required 978**

### Average Spinning Reserve During Peak Hour

Type	MW
GT	808
Hydro	244
Syncon	347
Thermal	201
<b>Total</b>	<b>1,600</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

### 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	16636	15711	15088	14618	14204	13966	14259	14223	14800	16542	17225	17769	17811	17740	18402	19205	19750	19339	18223	18178	18736	18654	18091	17515

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 27, 2024 11:16:31 AM

(Ir. Shanmugam Thoppalan)  
Head  
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	702	696	695	692	690	605	411	354	356	354	355	354	355	536	672	696	695	697	694	695	691	690	691	691	697	696	696	696	696	695	696	694	694	693	693	693	696	694	692	692	697	696	696						
JMHE	U001	934	933	930	936	933	935	934	933	936	932	932	935	934	933	933	936	933	935	935	934	936	934	932	935	932	936	934	935	934	935	932	931	934	933	933	933	936	936	933	934	934	934	934	936	936				
JMHE	U002	976	977	972	976	973	966	939	941	940	939	941	940	939	938	941	941	972	977	978	977	976	976	975	977	977	974	972	973	978	975	973	972	972	972	973	971	976	971	974	970	975	969	975	975					
JMIG	U001	677	659	658	677	668	682	667	666	672	677	667	666	671	686	676	672	623	596	600	598	595	602	594	672	667	615	585	576	555	502	467	467	447	467	469	472	469	483	512	551	607	669	677	670	673	673	673		
JMIG	U002	668	662	677	666	670	660	665	676	651	667	666	668	660	666	666	674	658	672	667	678	662	673	664	672	671	670	669	672	670	666	676	672	669	663	670	672	672	667	666	657	678	668	676	672	682	677	673	679	
JMIG	U003	673	673	671	668	672	668	669	679	670	672	674	671	674	671	672	671	677	673	682	669	675	672	674	672	675	673	675	672	672	671	675	669	671	672	671	673	671	673	671	670	671	672	672	673	670	674	670	671	
JMIG	U005	972	975	974	973	972	940	941	941	939	940	939	940	940	944	939	941	940	965	981	980	974	976	973	974	974	976	977	977	972	977	978	974	977	975	977	975	974	975	975	977	974	976	977	977	975	974	978		
PKLG	U003	205	163	158	155	155	156	156	156	155	155	155	156	214	209	207	261	273	278	278	278	278	277	276	277	276	277	275	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	
PKLG	U004	218	154	150	150	152	156	154	152	157	154	153	156	153	202	210	211	250	271	274	272	274	273	275	268	272	274	280	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	277
PKLG	U005	355	272	272	270	269	268	270	270	268	268	270	269	269	207	270	323	415	465	472	470	459	465	465	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466
PKLG	U006	466	465	414	374	359	404	464	467	465	463	464	468	469	465	466	466	468	469	468	468	468	468	466	468	466	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468
TBIN	U001	688	689	688	688	688	688	688	687	688	690	688	688	688	686	690	687	687	687	687	687	688	687	688	687	688	688	687	688	688	688	688	687	690	688	689	690	687	689	687	687	687	688	688	688	688	688	688	687	689
TBIN	U002	689	692	689	693	690	689	693	689	688	689	687	687	687	687	690	690	686	690	687	688	689	686	687	688	687	688	688	687	688	688	688	687	689	690	687	693	687	688	685	688	688	691	688	687	687	686	690		
TBIN	U003	684	687	688	686	687	687	686	687	686	685	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	
TBIN	U004	981	982	982	982	982	948	944	941	944	944	941	944	942	942	942	943	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982	982
Total ST-Coal		9888	9679	9618	9586	9560	9452	9281	9239	9216	9229	9218	9232	9224	9525	9657	9690	9771	9983	10064	10068	10045	10045	10039	10125	10107	10072	10039	10018	10000	9964	9908	9907	9889	9916	9920	9917	9919	9923	9940	9996	10053	10123	10128	10111	10135	10121	10142		
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	0	0
EMPP	BLK1	695	702	699	527	410	420	537	453	398	414	409	418	553	409	407	408	440	570	526	627	637	729	722	724	493	509	612	712	728	727	730	730	722	728	712	694	659	689	719	725	704	733	730	731	719	711	622	403	
EMPP	BLK2	725	731	728	730	600	551	373	373	362	373	371	374	375	374	369	371	374	373	503	607	650	730	730	730	729	548	551	732	736	731	730	730	728	732	728	712	729	724	728	726	705	732	729	732	720	729	727	592	
EMPP	BLK3	696	701	698	700	600	551	499	500	488	498	498	500	502	499	495	497	499	499	603	711	700	700	700	700	699	702	702	711	701	701	700	699	701	698	682	698	693	700	696	675	702	699	701	689	699	699	696	692	
GLGR	BLK1	138	137	138	138	138	137	137	138	137	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	
KLPP	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
NPRI	BLK1	510	491	394	312	313	310	311	311	299	310	304	311	311	308	305	305	314	307	313	336	351	351	449	515	308	311	312	452	524	517	518	520	512	518	512	499	515	508	516	512	496	519	513	519	506	313	311	302	
NPRI	BLK2	509	328	322	337	328	329	342	328	314	328	320	327	347	325	322	320	335	322	334	354	329	350	373	398	323	328	329	340	510	507	509	514	506	518	499	487	464	433	437	417	503	526	521	527	371	376	327	316	
PCCGP	BLK1	586	601	589	603	601	604	605	603	576	400	387	404	403	393	387	390	406	591	609	623	604	601	602	605	597	601	604	610	625	599	602	608	593	602	591	566	594	580	599	587	555	605	591	602	578	603	598	584	
PGLA	BLK1	570	477	476	476	475	476	476	477	477	478	477	478	476	478	478	477	476	476	476	477	476	478	477	475	476	475	476	475	476	476	477	475	682	683	680	679	477	476	477	671	676	674	676	478	477	476	475		
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
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
SPGP	BLK1	715	714	714	713	714	714	713	715	715	714	597	595	595	596	469	470	471	713	713	713	714	713	713	715	714	709	709	716	707	702	704	715	714	714	717	715	714	715	714	715	714	712	714	715	714	716	716	715	
SPGP	BLK2	703	703	702	702	702	703	702	701	704	596	597	597	597	597	357	357	469	691	697	703	694	696	694	693	695	688	691	693	684	684	680	706	704	703	705	706	703												

### 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																												
TMGR	HYDR	74	77	40	80	40	42	80	69	40	52	40	47	82	41	41	39	82	39	49	77	51	42	41	67	40	42	48	41	75	287	240	319	289	306	285	137	113	107	113	289	131	164	149	89	71	83	40	38				
Total Hydro		564	540	362	401	267	247	287	275	239	261	246	254	311	250	267	246	293	247	260	293	261	251	250	279	249	275	258	270	288	950	901	1210	1299	1528	1293	832	793	782	787	1040	863	826	808	725	667	680	636	617				
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	0	45	218	421	673	911	1060	1181	1331	1412	1413	1471	1396	1383	1248	1001	955	688	743	463	306	178	88	37	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	20	21	18	0	20	27	14	24	15	15	16	12	6	13	19	19	17	22	8	8	18	22	11	14	13	5	2	16	4	24	19	18	8	14	23	20	14	11	20	26	26	21	29	13	24	19	11	12				
KHTC	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	6	0	0	0	0	0	4	0	2	2	1	0	0	4	2	2	4	2	4	4	3	3	3	3	3	5	3	2	3	2	3	2	3				
PCUF	CUFG	13	13	12	10	10	13	13	12	13	9	12	11	9	14	12	13	11	8	12	11	13	9	5	8	11	10	11	10	11	11	11	11	10	12	11	10	11	10	11	11	11	11	11	11	11	10	9	13	11			
PCUF	CUFK	29	30	29	29	30	30	30	30	29	30	32	30	30	30	29	29	32	29	30	28	28	27	27	27	26	24	24	25	25	24	25	25	25	25	26	23	19	19	18	15	7	7	8	11	11	11	11	11				
Total NEDA Co-Gen		62	64	59	39	60	70	57	66	58	53	58	55	45	57	61	62	57	59	62	54	61	59	44	49	55	42	41	52	40	60	55	57	46	51	64	59	51	45	52	58	55	42	52	35	47	42	37	37				
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	
Total Generation		16615	16121	15753	15517	15022	14818	14573	14433	14237	14046	13950	14011	14218	14549	14227	14243	14727	15856	16436	17085	17188	17488	17742	18064	17823	17726	17717	18150	18448	19087	19257	19394	19763	19832	19354	18741	18219	17900	18116	18794	18686	18637	18653	18354	18046	17707	17429	17025				
KHTC	BLK1	-12	-12	-11	-11	-13	-11	-12	-10	-9	-9	-9	-6	-9	-12	-12	-9	-15	-21	0	0	-26	-31	-34	-39	0	-14	0	0	0	-5	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total Franchise Area		-12	-12	-11	-11	-13	-11	-12	-10	-9	-9	-9	-6	-9	-12	-12	-9	-15	-21	0	0	-26	-31	-34	-39	0	-14	0	0	0	-5	-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Singapore		-61	-36	5	-4	-47	-1	-25	13	56	26	9	-56	-18	33	23	33	-57	-17	-73	-83	-31	-17	-29	-44	44	-24	8	83	77	123	80	26	45	20	47	43	28	18	-28	-50	-17	-33	30	-34	-12	-34	-54	4				
Thailand		31	29	29	-30	-29	-29	-29	-29	-29	-30	-30	-29	-31	-28	-28	-30	-30	269	-29	-29	-29	-29	-29	-29	-28	-28	-28	-28	-30	-30	-29	-29	-29	-29	-29	-28	-31	-29	-31	-28	-30	-30	-28	-28	-28	-28	-28	-28				
Interconnection		-30	-7	34	-34	-76	-29	-54	-16	27	-3	-22	-86	-47	2	-5	5	-85	-47	-103	186	-60	-46	-58	-73	15	-53	-20	54	49	95	50	-4	16	-9	18	14	-1	-10	-59	-78	-47	-61	2	-64	-42	-62	-83	-24				
Total Demand		16636	16119	15711	15543	15088	14839	14618	14442	14204	14043	13966	14094	14259	14538	14223	14232	14800	15885	16542	16902	17225	17506	17769	18101	17811	17768	17740	18099	18402	18990	19205	19401	19750	19844	19339	18730	18223	17913	18178	18875	18736	18701	18654	18421	18091	17772	17515	17052				
SRev ST-Coal		273	294	337	323	336	488	463	446	474	455	468	457	462	449	413	383	393	240	168	164	187	187	193	197	187	215	190	223	194	212	183	239	240	193	196	192	195	193	189	292	236	259	189	184	211	187	201	180				
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	5	6	5	4	5	5	4	4	10	9	6	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SRev CCGT-Gas		465	728	852	1075	1431	1517	1618	1713	1842	2063	2238	2196	2128	2206	2681	2723	2535	1777	1546	1194	1162	971	945	852	1409	1558	1440	1115	666	482	563	414	347	315	450	740	1070	1130	895	738	721	636	662	866	1111	1429	1472	1878				
SRev Co-Gen		0	1	0	1	0	0	0	0	-2	2	-1	1	1	0	-1	0	0	0	-4	0	0	0	-1	0	0	-6	0	0	0	2	0	0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	-1	0	1		
Syncon		390	390	491	491	592	592	592	592	592	592	592	441	592	441	592	592	592	592	592	592	592	592	592	592	592	592	441	718	567	718	0	0	0	0	0	0	239	239	239	151	151	277	277	516	516	516	516	516				
Hydro		205	229	219	180	213	185	145	157	193	171	186	178	272	182	316	186	139	185	172	139	171	181	182	153	183	308	173	312	143	248	297	287	322	93	328	789	589	600	595	430	607	368	386	230	153	140	97	116				
S.Reserve Total		1333	1642	1899	2070	2572	2782	2818	2908	3099	3283	3483	3424	3304	3429	3850	3884	3659	2794	2474	2089	2112	1931	1911	1794	2376	2522	2526	2221	1726	947	1049	944	919	610	980	1746	2092	2162	1918	1611	1715	1540	1514	1796	1991	2271	2286	2691				