

Availability at Daily Maximum Demand Hour

ST-Coal	10,332 MW
ST-Gas	590 MW
ST-Oil	0 MW
LSS	1,590 MW
Hydro	2,347 MW
Distillate	0 MW
Others	0 MW
Gas	8,655 MW
Co-Gen	0 MW
Total System	23,514 MW

Maximum Demand Record

Date: 5/29/2024	20,045 MW
Date: 5/29/2024	423,825 MWH

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	180
CBPS	48
EMPP	192
KLPP	68
NPRI	146
PCGP	83
SGRI	58
SPGP	195
Total Gas	1,001

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Set On Bus And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	20,751 MW
Spinning Reserve	1,051 MW
Maximum Demand	19,514 MW
Net Energy	413,880 MWH
Load Factor	88 %

Generation Mix

Type	MWh	Percentage
ST-Coal	241,526	58.36 %
LSS	8,558	2.07 %
Hydro	15,548	3.76 %
Gas	150,453	36.35 %
Co-Gen	-770	-0.19 %
Total Generation	415,315	100.35 %
PLTG	718	0.17 %
HVDC	717	0.17 %
Interconnection	1,435	0.35 %
Net Energy	413,880	100.00 %

Fuel Cost

Total Cost:	102,190,009.21 RM
Cost per Unit	24.51 cents/kWH

Total Gas Required 1,001

Average Spinning Reserve During Peak Hour

Type	MW
GT	455
Hydro	396
Syncon	527
Thermal	178
Total	1,556

Time	Weather	Temperature
Afternoon	Rainy	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	17358	16528	16110	15464	15057	14701	14959	14841	15286	16805	17554	17993	17922	17848	18733	19225	19360	19157	17862	17622	18663	18615	18086	17795

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, June 27, 2024 9:17:11 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	695	696	696	696	697	696	695	697	696	694	694	696	696	695	695	695	696	696	696	696	697	696	696	697	696
JMAH	U002	698	692	694	693	696	692	696	694	696	695	692	695	696	692	696	693	695	694	696	696	699	698	696	697	697
JMHE	U001	935	937	936	938	939	937	938	937	937	933	935	932	936	935	933	936	939	939	937	937	934	937	936	937	937
JMHE	U002	972	975	973	975	975	976	975	974	977	938	942	939	941	941	939	941	973	973	976	976	972	975	973	972	978
JMIG	U002	681	682	681	677	677	672	679	634	592	599	596	662	685	673	677	683	671	676	682	680	683	682	681	685	676
JMIG	U003	668	668	668	671	671	667	665	667	669	672	670	667	639	651	655	645	649	642	645	664	655	649	651	647	657
JMIG	U005	977	974	973	978	977	974	969	974	976	943	940	939	939	942	937	942	966	977	973	973	973	975	975	977	974
PKLG	U003	277	275	276	276	276	275	274	273	276	275	276	275	276	275	274	275	274	275	274	272	276	275	273	275	275
PKLG	U004	276	274	278	273	272	276	276	272	276	274	277	278	272	278	274	276	275	274	277	277	276	274	276	275	276
PKLG	U005	468	459	463	463	463	461	461	463	465	464	461	465	466	466	470	466	469	466	466	466	469	469	468	474	468
PKLG	U006	466	468	466	465	469	465	467	468	467	467	467	466	468	467	465	464	468	464	465	466	465	466	465	469	468
TBIN	U001	687	687	688	688	687	686	688	687	685	687	688	688	688	688	688	688	688	688	688	688	689	688	690	687	687
TBIN	U002	689	687	688	689	685	687	689	688	688	687	688	687	686	689	689	690	684	688	691	688	689	690	687	691	690
TBIN	U003	686	684	688	685	686	685	686	685	687	684	685	683	686	685	685	685	688	689	685	685	686	686	684	684	685
TBIN	U004	984	982	981	983	989	985	983	985	985	945	942	943	945	940	944	942	968	982	981	984	982	983	984	984	984
Total ST-Coal		10159	10140	10149	10150	10134	10140	10099	10071	9961	9954	10010	10010	10018	10020	10105	10116	10130	10143	10135	10135	10133	10074	10069	10068	10117
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
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
CBPS	BLK2	362	362	296	201	201	201	201	202	202	202	201	201	202	201	202	202	201	311	361	362	362	362	361	360	358
EMPP	BLK1	706	721	725	730	730	643	526	434	416	407	408	403	406	409	408	367	410	570	730	730	728	728	703	730	700
EMPP	BLK3	705	723	725	730	730	650	521	438	418	407	409	404	406	409	407	366	414	574	730	729	730	728	703	730	700
GLGR	BLK1	134	136	134	135	134	135	134	136	134	133	135	134	134	134	135	134	135	140	133	135	135	135	133	133	134
KLPP	BLK1	182	183	182	184	183	183	183	188	186	186	186	191	192	191	192	191	191	191	194	191	197	191	194	192	193
NPRI	BLK1	502	513	502	440	375	338	328	332	330	322	329	323	322	323	327	323	332	334	334	386	527	521	455	521	513
NPRI	BLK2	521	530	530	401	467	335	335	334	334	328	329	326	327	328	329	324	335	333	334	532	530	527	521	526	518
PCGP	BLK1	580	600	595	605	437	430	435	434	429	423	425	423	422	424	431	587	604	603	604	602	601	603	578	604	575
SGRI	BLK1	163	162	164	166	167	164	165	159	163	162	164	164	165	162	166	162	166	164	167	165	169	166	162	163	159
SPGP	BLK1	709	710	707	707	706	709	707	706	647	543	448	449	549	599	447	399	400	678	703	701	701	697	692	696	695
SPGP	BLK2	706	706	705	705	704	707	704	648	543	450	449	549	600	449	399	401	648	699	698	697	693	689	683	687	689
TJGS	BLK1	676	687	404	402	404	403	401	400	400	405	402	401	401	399	399	389	404	400	405	402	401	538	684	688	
TJGS	BLK2	676	517	451	450	453	449	451	451	453	451	452	451	451	451	450	451	452	451	450	452	449	457	601	601	
Total CCGT-Gas		6622	6550	6120	5856	5691	5347	5093	4917	4760	4512	4339	4320	4524	4633	4338	4297	4442	5284	5682	5931	6171	6356	6485	6628	6367
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	0
BSIA	HYDR	68	67	67	67	67	12	12	12	12	11	11	11	12	11	12	12	12	12	12	12	23	44	43	43	45
CEND	HYDR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
HTRG	PUAH	-1	-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	TMBT	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
KNRG	HYDR	72	41	42	42	42	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	43	43	43	43	43
KNYR	HYDR	231	119	119	126	120	126	182	123	124	386	376	382	382	384	385	345	381	386	385	387	387	387	235	271	225
MHDY	MHDY	36	36	36	36	35	35	33	33	33	33	33	33	33	35	35	37	36	36	36	36	36	35	35	36	36
PGAU	HYDR	-1	-1	-1	-1	-1	-1	-1	-1	17	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HYDR	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HYDR	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HYDR	72	40	41	50	42	48	40	41	42	40	40	40	40	40	40	40	40	40	40	40	66	83	40	65	
UJLI	HYDR	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Total Hydro		613	330	332	348	333	269	315	257	277	538	508	513	514	516	518	479	518	527	521	524	549	566	391	454	
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

Daily MW Generation on Wednesday

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																										
Total Solar		0	0	0	0	0	0	0	0	0	0	0	0	0	41	146	296	444	653	726	814	1108	1093	1197	1101	1244	1139	1107	1137	1153	943	798	675	576	333	260	111	35	1	0	0	0	0	0	0	0	0	0			
PCUF	CUFG	20	21	21	20	23	20	20	21	22	21	21	22	20	22	22	22	23	24	23	22	22	23	22	22	23	23	22	22	23	22	23	22	23	22	23	21	20	21	19	21	21	21	20	19	20	21	21			
PCUF	CUFK	10	10	10	10	8	10	11	11	11	12	11	11	12	12	10	9	9	8	7	6	4	4	4	4	5	4	4	4	3	4	4	2	4	4	4	6	7	6	6	8	8	10	13	12	11	11	12	12		
PFTZ	PFTZ	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
Total NEDA Co-Gen		35	36	36	35	36	35	36	37	38	38	36	38	37	39	39	37	36	36	36	36	34	31	31	32	31	32	32	32	31	30	28	31	29	32	32	31	35	34	32	33	33	35	37	40	38	36	37	39		
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
Total Generation		17429	17056	16637	16389	16219	15785	15584	15310	15146	15049	14837	14881	15085	15206	14913	14874	15247	16259	16813	17287	17615	17902	18148	18281	18043	17930	17987	18434	18941	19315	19422	19691	19643	19762	19479	18735	18039	17631	17707	18417	18752	18805	18741	18592	18222	18031	17873	17381		
ESTL	ESTL	-19	-26	-15	-26	-24	-14	-18	-1	-9	-15	-28	-15	-14	-4	-9	-8	-5	-8	-23	-20	-8	0	-2	-17	-22	-13	-19	-19	0	0	-12	-17	-18	0	-10	-10	0	0	0	0	0	0	-14	-2	-19	-8	-14	-13	-26	
KHTC	BLK1	-54	-50	-50	-50	-49	-50	-46	-45	-45	-44	-45	-44	-41	-43	-44	-43	-49	-54	-57	-62	-63	-60	-65	-65	-64	-66	-58	-65	-77	-71	-71	-75	-69	-65	-67	-66	-56	-56	-53	-53	-52	-52	-51	-48	-48	-48	-45	-43		
Total Franchise Area		-73	-76	-65	-76	-73	-64	-64	-46	-54	-59	-73	-59	-55	-47	-53	-51	-54	-62	-80	-82	-71	-60	-67	-82	-86	-79	-77	-84	-77	-71	-83	-92	-87	-65	-77	-76	-56	-56	-53	-53	-52	-66	-53	-67	-56	-62	-58	-69		
Singapore		-30	-11	19	0	9	25	29	-2	8	70	35	61	44	57	-6	-22	-122	-58	-99	-21	-39	-67	60	-8	7	21	34	44	103	58	88	178	170	156	219	129	95	52	6	-27	9	6	46	74	52	17	-9	-28		
Thailand		30	29	28	30	30	29	29	30	30	31	31	30	30	29	29	28	31	29	29	31	31	29	31	31	31	30	31	31	29	29	28	28	29	29	29	29	29	29	29	29	31	31	29	31	31	31	32	30		
Interconnection		1	18	47	30	39	55	59	28	38	101	66	92	74	86	22	6	-90	-29	-69	10	-7	-38	91	23	38	51	65	75	134	86	117	206	199	186	248	158	124	81	35	2	40	37	76	105	83	48	23	3		
Total Demand		17358	16965	16528	16286	16110	15669	15464	15239	15057	14892	14701	14733	14959	15076	14841	14820	15286	16229	16805	17198	17554	17883	17993	18179	17922	17803	17848	18278	18733	19161	19225	19396	19360	19514	19157	18504	17862	17497	17622	18365	18663	18705	18615	18423	18086	17924	17795	17312		
SRev ST-Coal		173	192	183	182	173	198	192	193	171	281	288	322	282	274	274	272	187	176	162	189	197	197	199	118	123	124	155	146	163	191	202	200	190	195	184	196	194	180	205	199	184	169	148	201	182	184	182	165		
SRev CCGT-Gas		365	437	867	1131	1136	1480	1724	1900	2057	2305	2478	2497	2293	2184	2479	2690	2545	1703	1305	1056	816	631	502	359	560	589	873	499	502	462	378	273	209	200	244	388	889	1082	851	408	160	162	179	205	446	348	606	686		
SRev Co-Gen		-1	0	0	0	-1	0	-1	0	0	0	0	0	-2	0	0	2	1	0	0	0	-1	2	-1	1	0	0	-3	0	-1	1	-1	-1	0	1	0	2	2	-5	0	2	0	1	1	1	-1	1				
Syncon		739	840	840	840	840	840	840	840	840	588	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739	739		
Hydro		342	212	210	194	209	185	239	197	327	268	147	142	141	139	137	176	137	128	134	131	106	89	415	241	316	304	308	231	139	316	439	433	616	380	521	403	314	403	435	509	548	485	370	443	374	413	346	473		
S.Reserve Total		1618	1768	2187	2434	2444	2790	3081	3217	3482	3529	3739	3787	3542	3421	3716	3964	3697	2834	2427	2202	1945	1742	1793	1543	1826	1843	2162	1702	1452	1433	1482	1184	1291	1051	1226	1727	2223	2493	2319	1849	1443	1369	1248	1401	1554	1497	1684	1725		