

Availability at Daily Maximum Demand Hour

ST-Coal	10,813 MW
ST-Gas	294 MW
ST-Oil	0 MW
LSS	1,590 MW
Hydro	2,425 MW
Distillate	0 MW
Others	0 MW
Gas	7,115 MW
Co-Gen	0 MW
Total System	22,237 MW
Total System w/o solar	20,647 MW

Maximum Demand Record

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

Gas Usage

Station	(mmscfd)
GLGR	41
SRDG	4
TJGS	189
EMPP	192
KLPP	81
NPRI	142
PCGP	81
SGRI	135
PKLG	44
Total Gas	909

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Set On Bus And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	20,367 MW
Spinning Reserve	1,161 MW
Maximum Demand	19,225 MW
Net Energy	408,406 MWH
Load Factor	89 %
Operating Reserve	1,422 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	252,156	61.74 %
ST-Gas	4,368	1.07 %
LSS	9,658	2.36 %
Hydro	13,931	3.41 %
Gas	129,827	31.79 %
Co-Gen	-1,813	-0.44 %
Total Generation	408,127	99.93 %
PLTG	396	0.10 %
HVDC	-675	-0.17 %
Interconnection	-279	-0.07 %
Net Energy	408,406	100.00 %

Fuel Cost

Total Cost:	94,877,598.47 RM
Cost per Unit	23.11 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	372
Hydro	480
Syncon	705
Thermal	209
Total	1,766

Time Weather Temperature

Afternoon	Hot	33
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	17027	16204	15476	14958	14603	14412	14670	14731	15043	16637	17343	17627	17458	17209	17843	18332	18736	18581	17672	17835	19192	19106	18640	18282

Prepared By: -Select Name-

Checked By: -Select Name-

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(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																													
UJLI	HYDR	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	89	-2	-2	-2	-2	96	94	99	-2	-2	-2	-2	198	186	178	198	102	-2	-2	-2	-2																	
Total Hydro		262	281	267	285	497	500	500	521	500	498	494	495	496	494	442	425	305	347	308	390	305	244	238	237	228	575	435	446	490	1013	655	868	861	913	535	519	419	430	420	1252	1425	1416	1247	1025	776	750	719	693					
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	27	131	274	404	562	834	996	1140	1243	1296	1380	1333	1328	1284	1188	1268	1107	951	766	757	536	334	161	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	20	5	15	2	6	20	22	19	16	16	14	16	19	22	20	21	19	13	13	15	13	16	6	0	1	0	0	6	5	0	0	6	0	0	0	4	0	0	0	0	0	1	0	0	3	0	0	0	0				
PCUF	CUGF	9	8	9	8	8	9	9	9	9	9	10	9	9	8	9	9	11	9	10	9	12	9	7	8	8	6	6	7	8	7	8	8	8	7	7	7	7	8	7	8	7	7	8	7	7	8	7	8	7				
PCUF	CUFK	28	29	29	30	30	29	4	4	3	3	3	4	2	3	3	3	3	1	3	4	3	3	2	3	3	2	3	6	3	2	3	4	4	2	2	2	3	4	4	3	2	4	3	3	4	3	4	3	4				
PFTZ	PFTZ	4	4	2	2	2	2	2	2	2	2	2	2	4	2	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	4	2	2	2	2	2	2	2	2	2	2	2	2	2				
Total NEDA Co-Gen		61	46	55	42	46	60	37	34	30	30	29	31	32	37	34	37	37	27	30	32	32	32	19	15	16	13	12	20	23	14	14	21	16	15	15	19	13	13	14	12	12	14	12	15	13	13	13	13					
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		17061	16513	16073	15914	15568	15387	15043	14905	14679	14639	14553	14589	14804	14980	14784	14736	15087	16071	16687	17128	17510	17668	17710	17957	17467	17247	17201	17500	17718	18382	18589	18815	18876	19038	18771	18351	17887	17594	17962	18970	19290	19316	19195	19022	18713	18508	18363	17903					
ESTL	ESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-3	-2	0	0	-3	0	0	-4	-1	-1	0	-2	0	-2	0	-4	0	0	-1	0	0	0	0	0				
KHTC	BLK1	-102	-99	-99	-100	-99	-96	-93	-94	-96	-95	-93	-92	-93	-95	-96	-99	-95	-95	-97	-98	-96	-99	-73	-76	-79	-71	-74	-110	-112	-115	-114	-117	-119	-118	-121	-121	-120	-114	-115	-117	-114	-113	-110	-105	-104	-100	-91	-80					
Total Franchise Area		-102	-99	-99	-100	-99	-96	-93	-94	-96	-95	-93	-92	-93	-95	-96	-99	-95	-95	-97	-98	-96	-99	-73	-76	-79	-74	-76	-110	-112	-118	-114	-117	-123	-119	-122	-121	-122	-114	-117	-118	-113	-110	-106	-104	-100	-91	-80						
Singapore		-37	-75	-198	42	24	67	23	56	11	47	79	78	72	91	-12	29	-20	-19	-16	34	102	36	41	70	-39	-24	-53	-151	-206	35	174	123	48	52	99	65	124	38	41	-24	11	10	10	-25	0	-28	21	-32					
Thailand		-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	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28	-28				
Interconnection		-65	-103	-227	14	-4	38	-5	28	-17	19	51	50	44	62	-40	1	-48	-47	-44	6	74	8	13	42	-67	-52	-81	-179	-234	6	146	94	20	24	71	37	96	10	13	-52	-17	-19	-18	-53	-28	-56	-7	-60					
Total Demand		17027	16520	16204	15803	15476	15256	14958	14786	14603	14528	14412	14450	14670	14826	14731	14639	15043	16026	16637	17027	17343	17564	17627	17842	17458	17228	17209	17572	17843	18261	18332	18607	18736	18898	18581	18196	17672	17473	17835	18908	19192	19225	19106	18972	18640	18467	18282	17886					
S.Rev ST-Coal		173	93	56	105	197	206	331	389	507	500	512	582	483	502	491	485	438	271	217	165	206	178	202	216	197	202	172	180	184	186	195	222	160	166	174	144	184	159	172	162	178	188	166	172	173	178	153	169					
S.Rev CCGT-Gas		549	1054	1281	1299	1504	1491	1488	1507	1475	1519	1586	1574	1563	1569	1530	1589	1453	1207	1220	574	463	434	591	486	707	460	333	402	397	237	240	162	242	130	190	497	685	937	397	202	200	207	201	162	230	290	364	587					
S.Rev ST-Gas		-3	-3	-3	-3	-3	-4	-4	-3	-3	-3	-3	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	36	39	16	-5	-15	3	3	1	21	44	40	39	39	41	45	34	17	11	15	44	40					
S.Rev 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	3	1	1	0	0	82	0	0						
S.Rev Co-Gen		0	0	0	0	-1	-1	1	-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				
Syncon		1031	880	1031	930	829	829	829	865	1016	1016	1016	1016	1016	865	865	1016	1117	1117	1117	840	1117	1218	1218	1218	1218	552	739	714	865	588	588	439	439	439	865	1117	1117	1117	1117	277	0	0	0	464	777	1016	1016	1016					
Hydro		195	327	190	273	162	159	159	288	158	160	164	163	162	315	367	233	252	210	249	444	252	212	218	219	228	547	500	514	319	310	668	704	711	659	611	375	388	377	387	520	711	720	889	535	471	258	289	315					
S.Reserve Total		1945	2351	2555	2604	2689	2680	2802	3045	3154	3191	3274	3370	3259	3286	3288	3357	3294	2839	2838	2058	2073	2077	2264	2174	2385	1797	1779	1847	1804	1336	1686	1512	1555	1398	1841	2154	2418	2630	2112	1200	1132	1161	1291	1350	1662	1840	1866	2128					