

Availability at Daily Maximum Demand Hour

ST-Coal	8,562 MW
ST-Gas	440 MW
ST-Oil	0 MW
LSS	1,590 MW
Hydro	2,409 MW
Distillate	573 MW
Others	0 MW
Gas	7,979 MW
Co-Gen	0 MW
Total System	21,553 MW
Total System w/o solar	19,963 MW

Maximum Demand Record

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

Set On Bus And MD

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	21,067 MW
Spinning Reserve	1,889 MW
Maximum Demand	19,090 MW
Net Energy	410,130 MWH
Load Factor	90 %
Operating Reserve	1,827 MW

Gas Usage

Station	(mmscfd)	Station	(mmscfd)
GLGR	48	SRDG	0
TJGS	199	KLPP	42
EMPP	298	SGRI	114
KLPP	67	Total	156
NPRI	132		
PCGP	89		
SGRI	85		
SPGP	101		
PKLG	43		
Total Gas	1,063		

Alternate Fuel Usage

Generation Mix

Type	MWh	Percentage
ST-Coal	213,077	51.95 %
ST-Gas	4,298	1.05 %
LSS	9,254	2.26 %
Hydro	16,695	4.07 %
Distillate	12,320	3.00 %
Gas	158,284	38.59 %
Co-Gen	-3,141	-0.77 %
Total Generation	410,787	100.16 %
PLTG	-72	-0.02 %
HVDC	729	0.18 %
Interconnection	657	0.16 %
Net Energy	410,130	100.00 %

Fuel Cost

Total Cost:	112,587,196.69 RM
Cost per Unit	27.18 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	625
Hydro	373
Syncon	802
Thermal	208
Total	2,008

Total Gas Required 1,220

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	17062	16273	15689	15194	14839	14635	14814	14949	15067	16607	17177	17733	17562	17469	18430	19071	19011	18741	17846	17684	18927	18825	18358	17861

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, September 11, 2024
10:23:27 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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																										
KLPP	GT15	138	139	139	139	140	140	138	138	139	139	139	140	139	139	139	139	138	137	136	135	135	138	134	137	133	132	134	137	137	137	137	137	136	137	138	137	137	124	139	137	138	139	138	138	138	138	138	137		
SGRI	GT11	0	0	126	125	125	125	124	125	125	125	126	126	126	126	125	124	126	125	124	124	124	124	124	124	123	125	123	122	122	121	123	121	123	121	123	123	123	123	125	125	125	125	124	124	125	125	125	126		
SGRI	GT13	120	121	120	120	121	120	120	122	121	120	121	122	121	122	122	122	122	122	122	122	122	122	121	120	119	120	119	120	119	118	119	118	118	117	118	119	118	119	121	123	122	122	122	122	122	122	122	122		
SGRI	GT23	137	136	136	135	136	136	136	137	137	137	136	137	137	138	138	138	137	137	136	135	134	134	135	135	135	134	134	136	133	134	133	133	133	132	134	133	134	133	136	138	137	138	138	138	138	138	140			
SRDG	GT05	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 Distillate		429	396	521	519	522	521	518	522	522	520	521	524	523	525	525	525	525	523	521	520	516	512	513	516	513	516	510	509	515	512	511	511	509	511	506	512	513	512	512	506	525	521	523	523	522	523	523	523	525	
Total Solar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	151	370	595	859	1011	1139	1096	1155	1359	1219	1249	1213	1209	1113	938	954	772	695	608	447	217	98	27	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	2	1	2	3	4	4	2	1	2	3	4	2	2	2	2	4	2	2	2	3	4	4	4	3	4	3	4	2	4	2	4	5	3	2	3	4	5	4	3	4	4	4	4	3	4	3	4			
PCUF	CUFK	8	9	8	8	9	7	8	10	11	10	10	12	12	12	11	9	9	7	5	6	5	4	4	6	6	4	4	4	4	4	4	6	6	6	6	7	8	7	7	8	7	7	8	6	9	10	9			
PFTZ	PFTZ	2	4	2	2	2	2	2	2	2	4	2	2	4	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	2			
Total NEDA Co-Gen		12	14	12	13	15	13	12	13	15	17	16	14	16	18	17	18	18	17	15	15	14	13	14	13	11	12	13	14	10	12	10	12	13	13	12	13	15	17	15	14	16	15	15	15	15	14	14	15	15	
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	
Total Generation		17142	16746	16417	16089	15840	15622	15405	15142	15019	14829	14742	14692	14944	15095	15060	14782	15146	16061	16719	17028	17345	17552	17887	17995	17764	17565	17636	18039	18656	19113	19367	19309	19170	19333	18983	18584	18101	17817	17873	18645	19063	19132	19059	18877	18545	18353	18061	17808		
ESTL	ESTL	-23	-42	-39	-40	-42	-36	-32	-40	-37	-35	-26	-32	-20	-10	-8	-11	-21	-34	-30	-32	-22	-31	-27	-40	-40	-38	-31	-39	-22	-34	-18	-24	-28	-28	-26	-27	-14	-20	-19	-26	-28	-29	-21	-53	-37	-39	-28			
KHTC	BLK1	-114	-114	-116	-114	-113	-111	-111	-109	-111	-110	-109	-110	-111	-113	-114	-114	-116	-121	-120	-121	-124	-127	-129	-130	-126	-112	-114	-117	-120	-122	-116	-115	-113	-102	-109	-122	-119	-120	-117	-117	-115	-114	-113	-112	-112	-111	-110			
Total Franchise Area		-137	-156	-155	-154	-155	-147	-143	-149	-148	-145	-135	-142	-131	-123	-122	-125	-137	-155	-150	-153	-156	-149	-160	-157	-166	-152	-152	-148	-159	-142	-156	-134	-139	-141	-130	-135	-149	-133	-140	-136	-143	-143	-143	-143	-165	-149	-150	-138		
Singapore		-84	23	-38	-45	-32	-23	41	21	4	-11	-56	-24	-29	-20	-38	-9	-85	-55	-65	-58	-15	-77	-33	-36	9	-4	-12	-56	40	96	113	59	-8	83	84	57	79	48	20	-20	-35	10	63	27	-5	-35	23	-37		
Thailand		30	30	30	31	31	30	30	31	31	30	30	31	31	30	30	30	30	30	30	30	30	31	31	30	30	30	30	30	30	31	31	31	31	31	30	30	32	32	31	31	30	30	30	30	30	31	31			
Interconnection		-54	53	-8	-15	-1	7	71	52	35	20	-25	7	2	10	-8	21	-55	-24	-35	-28	15	-47	-3	-6	39	26	18	-26	70	126	143	88	23	114	115	88	109	78	52	12	-4	41	94	58	25	-5	53	-6		
Total Demand		17062	16540	16273	15953	15689	15471	15194	14944	14839	14667	14635	14546	14814	14965	14949	14639	15067	15933	16607	16906	17177	17453	17733	17847	17562	17390	17469	17920	18430	18848	19071	19090	19011	19081	18741	18364	17846	17609	17684	18500	18927	18951	18825	18688	18358	18212	17861	17679		
SRev ST-Coal		142	140	166	152	172	167	154	164	180	153	126	166	134	137	135	173	146	173	169	161	148	250	205	209	331	252	203	153	187	157	124	173	131	138	161	152	164	170	162	185	174	173	165	175	175	179	166	174		
SRev CCGT-Gas		714	940	1182	1305	1499	1725	1928	2167	2275	2497	2597	2633	2404	2246	2286	2540	2323	1574	1140	1108	1012	905	515	616	1081	1273	1271	998	546	340	277	376	371	374	433	764	949	1114	1000	434	312	252	269	258	593	747	920	954		
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	29	30	31	33	35	36	54	58	55	26	35	51	56	59	56	62	56	11	3	2	1	-4	20	12	15	26	57				
SRev Distillate		130	37	52	54	51	52	55	51	51	53	52	49	50	48	48	48	50	52	53	57	61	60	57	60	57	63	64	58	61	62	62	64	62	67	61	60	61	61	61	67	48	52	50	51	50	50	48			
SRev Co-Gen		1	0	0	0	-1	-1	0	-1	0	0	0	0	-1	0	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	1	-1	0	1	0	2	0	0	-1	0	0	0			
Syncon		851	1002	851	1128	1128	1128	1127	1128	1127	977	1128	977	976	1128	1128	1127	1127	1127	1128	1128	976	1128	1127	977	1127	981	1132	1127	1128	825	638	977	977	638	826	915	915	915	1003	816	604	604	604	791	791	942	1129	1129		
Hydro		315	155	302	118	158	152	176	114	116	261	124	250	261	117	113	128	130	153	154	162	286	113	150	238	132	259	133	123	120	420	379	264	293	381	335	171	229	319	275	374	348	342	411	416	421	301	101	283		
S.Reserve Total		2153	2274	2553	2757	3007	3223	3440	3623	3749	3941	4027	4075	3824	3676	3710	4016	3774	3078	2644	2643	2512	2485	2084	2131	2761	2863	2839	2514	2100	1859	1506	1889	1887	1654	1875	2119	2379	2635	2519	1860	1494	1422	1495	1710	2042	2234	2392	2645		