

Availability at Daily Maximum Demand Hour

ST-Coal	10,322 MW
ST-Gas	590 MW
ST-Oil	0 MW
LSS	1,590 MW
Hydro	2,351 MW
Distillate	0 MW
Others	0 MW
Gas	8,686 MW
Co-Gen	0 MW
Total System	23,539 MW
Total System w/o solar	21,949 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:	20:30:00 Hour
Total Set On Bus	17,950 MW
Spinning Reserve	1,662 MW
Maximum Demand	16,202 MW
Net Energy	330,512 MWH
Load Factor	85 %
Operating Reserve	5,747 MW

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	1
EMPP	242
NPRI	136
PCGP	81
PGLA	46
SPGP	175
Total Gas	710
Total Gas Required	710

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
ST-Coal	206,388	62.44 %
LSS	6,889	2.08 %
Hydro	11,175	3.38 %
Gas	108,128	32.72 %
Co-Gen	-960	-0.29 %
Total Generation	331,620	100.34 %
PLTG	478	0.14 %
HVDC	630	0.19 %
Interconnection	1,108	0.34 %
Net Energy	330,512	100.00 %

Fuel Cost

Total Cost:	77,285,690.75 RM
Cost per Unit	23.20 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,287
Hydro	318
Syncon	944
Thermal	590
Total	3,139

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Cloudy	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	14999	14405	13914	13447	13116	12858	12873	12587	11918	11961	12401	12956	12838	12804	12826	13350	13776	14047	14289	14950	16165	16073	15842	15729

Prepared By: -Select Name-

Checked By: -Select Name-

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(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																									
PCUF	CUFK	3	1	1	2	3	4	4	3	5	4	2	2	3	1	4	3	4	2	3	2	3	0	3	2	4	4	2	4	4	3	2	3	4	5	2	3	3	3	3	3	3	3	4	3	2	4	3	4	
Total NEDA Co-Gen		27	28	26	23	17	21	18	16	28	32	18	29	24	26	34	27	34	35	26	24	22	18	15	19	26	21	21	27	25	17	29	21	25	23	18	16	19	15	14	16	26	17	19	17	10	21	27	24	
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		14957	14681	14437	14259	14015	13776	13538	13392	13258	13027	12973	12872	12954	12923	12680	12175	12029	11981	11978	12223	12467	12823	13110	13122	12926	12823	12892	12999	12967	13287	13468	13590	13910	14140	14178	14310	14489	14662	15091	16099	16333	16342	16207	16128	15938	15965	15763	15628	
KHTC	BLK1	-84	-86	-83	-64	-65	-65	-65	-63	-61	-61	-62	-60	-58	-60	-59	-57	-57	-60	-58	-60	-64	-64	-63	-60	-59	-58	-59	-59	-63	-61	-68	-58	-52	-53	-51	-53	-53	-53	-54	-55	-55	-54	-58	-56	-55	-58	-57	-57	
PFTZ	PFTZ	-3	-3	-3	-1	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-1	-3	-3	-3	-1	-1	-1	-1	-1	-1	-2	0	-2	-1	-1	-1	-1	-3	-3	-3	-1	-3	-3	-3	-3	-1	-1	-3	-3	-5	-5	-5	-4	-4	
Total Franchise Area		-87	-89	-86	-65	-68	-68	-68	-66	-64	-64	-65	-63	-61	-63	-60	-60	-60	-63	-59	-61	-65	-65	-64	-61	-61	-58	-61	-60	-64	-62	-69	-61	-55	-56	-52	-56	-56	-56	-57	-56	-56	-57	-61	-61	-60	-63	-61	-61	
Singapore		-97	-101	-22	-33	6	62	-3	42	52	3	23	40	-7	82	6	14	23	-34	-69	-16	-27	-3	62	70	1	-47	0	34	51	126	22	10	52	28	52	97	117	85	58	27	84	55	45	39	8	43	-55	-50	
Thailand		-29	-29	-29	30	30	30	29	29	29	29	30	30	30	30	30	30	31	31	29	29	30	30	30	29	29	30	30	29	29	30	31	31	30	29	29	30	30	31	31	30	30	31	29	31	31	31			
Interconnection		-126	-130	-51	-3	36	93	26	71	81	32	53	70	23	112	36	44	54	-3	-39	14	4	27	93	100	30	-18	30	63	80	155	52	40	82	59	82	127	147	114	87	57	115	86	76	69	39	72	-24	-20	
Total Demand		14999	14725	14405	14200	13914	13618	13447	13258	13116	12934	12858	12742	12873	12751	12587	12074	11918	11924	11961	12151	12401	12734	12956	12964	12838	12786	12804	12879	12826	13073	13350	13492	13776	14028	14047	14130	14289	14495	14950	15989	16165	16202	16073	16001	15842	15833	15729	15590	
SRev ST-Coal		308	304	314	563	578	584	576	593	585	644	826	802	802	851	823	803	829	831	812	803	809	812	811	794	820	814	806	809	806	802	762	643	626	616	609	612	623	629	533	321	238	167	202	167	185	235	244	256	
SRev CCGT-Gas		717	609	751	581	791	1014	1287	1397	1540	1939	1706	1723	1696	1696	1776	1989	2123	2123	2104	1796	1632	1529	1571	1719	1878	1949	2032	1931	1885	1726	1929	1288	1075	863	780	561	605	509	393	171	287	568	221	210	329	349	298	153	
SRev Co-Gen		6	6	6	2	7	7	6	7	5	6	6	6	6	2	6	6	6	2	2	2	3	2	2	3	4	-1	4	5	-3	1	2	6	4	6	2	7	7	6	6	2	2	6	6	10	10	11	9	7	
Syncon		1102	865	1016	1016	1016	1016	1016	1016	1016	1016	865	1016	1016	829	1103	1053	1204	1205	1205	1205	1205	1205	1205	1205	1205	1205	1205	1054	1205	1017	1305	1118	1117	1118	1118	866	1103	916	641	523	603	790	740	927	927	927	1204		
Hydro		196	337	124	124	137	156	131	144	156	163	212	161	108	177	192	272	215	132	141	140	146	137	170	165	173	175	153	263	165	304	110	220	227	275	203	281	43	177	246	339	318	300	373	292	304	363	131		
S.Reserve Total		2329	2121	2211	2286	2529	2777	3016	3157	3302	3768	3615	3708	3628	3559	3896	4123	4377	4297	4264	3946	3795	3685	3759	3886	4080	4142	4222	4103	4005	3899	4014	3352	3043	2829	2784	2501	2382	2290	2025	1381	1389	1662	1519	1500	1743	1826	1841	1751	