

### Availability at Daily Maximum Demand Hour

ST-Coal	8,491 MW
ST-Gas	590 MW
ST-Oil	0 MW
LSS	1,340 MW
Hydro	2,327 MW
Distillate	0 MW
Others	0 MW
Gas	10,016 MW
Co-Gen	0 MW
<b>Total System</b>	<b>22,764 MW</b>

### Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

### Set On Bus And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	19,880 MW
Spinning Reserve	1,062 MW
Maximum Demand	18,807 MW
Net Energy	398,261 MWH
Load Factor	88 %

### Gas Usage

Station	(mmscfd)
GLGR	30
SRDG	3
TJGS	187
CBPS	49
EMPP	286
KLPP	77
NPRI	76
PCGP	85
PLPS	73
SGRI	45
SPGP	205
<b>Total Gas</b>	<b>1,115</b>

### Alternate Fuel Usage

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

### Generation Mix

Type	MWh	Percentage
ST-Coal	200,377	50.31 %
LSS	8,091	2.03 %
Hydro	21,756	5.46 %
Gas	167,419	42.04 %
Co-Gen	267	0.07 %
<b>Total Generation</b>	<b>397,910</b>	<b>99.91 %</b>
PLTG	209	0.05 %
HVDC	-560	-0.14 %
<b>Interconnection</b>	<b>-351</b>	<b>-0.09 %</b>
<b>Net Energy</b>	<b>398,261</b>	<b>100.00 %</b>

### Fuel Cost

Total Cost:	96,636,285.04 RM
Cost per Unit	24.21 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	387
Hydro	393
Syncon	464
Thermal	141
<b>Total</b>	<b>1,385</b>

**Total Gas Required 1,115**

Time	Weather	Temperature
Afternoon	Hot	34
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	16308	15589	14987	14433	13976	13672	13710	13969	14547	16117	17039	17363	17160	16932	17817	18453	18697	18597	17435	17339	18677	18684	18165	17911

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, March 8, 2024 7:51:08 PM

(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	U002	695	695	695	698	694	692	697	696	690	695	698	696	693	694	693	694	695	697	698	693	694	694	695	695	696	697	694	696	694	698	694	694	697	697	697	696	695	694	695	694	695	691								
Total ST-Coal		8404	8399	8402	8392	8402	8391	8358	8208	8221	8218	8214	8225	8216	8214	8206	8203	8207	8398	8404	8394	8412	8398	8415	8416	8412	8409	8421	8414	8409	8412	8436	8416	8406	8364	8353	8366	8346	8361	8367	8361	8355	8349	8352	8346	8357	8402	8335	8296		
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	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	0
CBPS	BLK2	360	359	358	241	205	212	209	212	211	209	212	212	213	214	215	210	212	303	362	360	361	355	362	357	359	356	230	334	356	362	361	363	364	361	355	367	358	361	365	364	361	362	360	359	359	365	363	355		
Total CCGT-Gas		7000	6753	6498	6225	5873	5552	5336	5195	5058	4951	4748	4739	4789	4907	5048	5190	5558	6267	6645	7124	7264	7252	7311	7248	6885	6780	6661	7041	7451	7820	8028	8090	8284	8247	8114	8181	7957	7875	8147	8533	8474	8531	8459	8445	8470	8558	8506	8346		
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	124	125	89	0	0	0
BSIA	HYDR	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	20	24	24	24	24	24	24	24	24	24	24	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48			
Total Hydro		897	691	659	660	659	661	660	640	638	639	639	638	639	639	639	639	611	608	607	669	668	659	688	719	719	770	829	996	1066	1221	1273	1504	1488	950	849	763	765	1338	1752	1753	1752	1620	1338	1076	1041	1142				
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	

### 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																											
Total Solar		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	65	214	362	452	707	880	921	1066	1125	1049	1081	1145	1113	955	913	868	779	735	715	499	307	189	50	1	1	0	0	0	0	0	0	0	0	0		
ESTL	ESTL	12	15	18	20	22	21	28	29	16	19	20	28	15	26	29	24	21	32	31	17	21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	23	23	21	22	22	22	22	22	22	22	23	22	22	22	21	21	21	21	21	21	21	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	21	
PCUF	CUFK	30	31	30	29	30	30	29	31	30	30	29	31	30	30	29	28	29	28	30	29	29	29	30	29	30	29	30	30	29	30	31	30	29	29	30	29	29	29	29	29	29	29	29	29	29	30	30				
PFTZ	PFTZ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0
Total NEDA Co-Gen		65	69	69	71	74	73	79	82	68	71	71	82	67	78	79	73	72	81	82	67	71	51	51	50	51	51	51	51	50	51	51	51	51	50	52	52	51	50	51	52	51	51	51	53	51	50	51	52	51		
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		16366	15912	15628	15348	15008	14677	14433	14125	13985	13879	13672	13684	13711	13840	13974	14107	14541	15599	16104	16645	17061	17250	17366	17439	17161	17008	16933	17421	17852	18234	18494	18646	18792	18902	18722	18047	17509	17239	17381	18284	18735	18808	18741	18551	18215	18087	17934	17835			
ESTL	ESTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-8	-8	-8	-4	-5	-8	-9	-8	-23	-19	-25	-27	-11	-14	-6	-7	-1	-9	-10	0	-12	-12	-8	-13	-6				
KHTC	BLK1	-35	-34	-33	-33	-32	-32	-29	-26	-28	-26	-26	-26	-26	-28	-28	-29	-32	-38	-40	-38	-40	-46	-48	-51	-57	-57	-59	-57	-63	-68	-67	-63	-62	-61	-63	-57	-58	-55	-55	-56	-53	-51	-53	-47	-48	-44	-40				
Total Franchise Area		-35	-34	-33	-33	-32	-32	-29	-26	-28	-26	-26	-26	-26	-28	-28	-29	-32	-38	-40	-38	-40	-46	-48	-51	-57	-57	-59	-61	-64	-65	-72	-76	-90	-82	-87	-88	-74	-71	-64	-62	-56	-65	-63	-51	-65	-59	-56	-57	-46		
Singapore		-36	-35	-51	21	21	4	2	3	13	32	3	-3	7	-7	8	34	-3	4	-18	14	17	0	-10	1	-24	11	-28	-14	3	-22	-1	37	46	42	70	22	37	35	13	21	24	34	37	22	22	-6	-2	19			
Thailand		62	62	59	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-28	-28	-29	-29	-28	-28	-28	-30	-30	-30	-29	-29	-29	-29	-30	-30	-29	-30	-29	-30	-29	-30	-30	-29	-29	-28	-28	-28	-30	-28	-28	-29	-29				
Interconnection		26	27	9	-8	-8	-25	-26	-26	-16	3	-25	-31	-22	-36	-20	5	-31	-25	-47	-14	-12	-28	-39	-29	-54	-19	-56	-43	-26	-51	-31	7	17	12	41	-8	7	4	-16	-8	-4	6	9	-7	-6	-34	-31	-10			
Total Demand		16308	15854	15589	15326	14987	14673	14433	14128	13976	13853	13672	13692	13710	13853	13969	14077	14547	15596	16117	16623	17039	17242	17363	17416	17160	16966	16932	17404	17817	18217	18453	18553	18697	18807	18597	17985	17435	17175	17339	18239	18677	18742	18684	18496	18165	18068	17911	17802			
SRev ST-Coal		107	112	109	164	154	165	198	348	335	337	342	331	339	342	346	353	348	158	152	162	144	158	141	140	144	147	135	142	147	144	120	140	135	127	138	125	145	130	124	130	136	142	139	145	134	154	182	138			
SRev CCGT-Gas		633	664	776	1049	1401	1722	1938	2079	2216	2323	2526	2535	2507	2366	2224	1782	1073	745	517	377	389	330	393	756	861	1123	867	560	406	271	352	234	271	404	337	701	859	587	201	260	203	275	289	264	176	228	388				
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	2	1	37	0	0	0	0			
SRev Co-Gen		1	2	0	0	0	1	-1	0	-1	0	0	-1	-1	0	2	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	3	0	0	-1	0	1	1	0	0	0	0	0	0	1	0	-2	-2	-1			
Syncon		615	703	791	791	791	791	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	766	766	615	615	615	615	615	615	615	428	579	428	126	126	703	703	791	791	428	0	0	0	0	313	464	552	365	
Hydro		532	360	304	303	304	302	303	172	174	173	173	174	173	171	171	173	173	201	204	205	319	320	393	277	246	246	195	136	243	510	204	303	539	555	291	392	390	388	553	567	566	567	699	668	529	476	437				
S.Reserve Total		1888	1841	1980	2307	2650	2981	3229	3541	3666	3775	3983	3981	3988	3962	3827	3692	3245	2348	2042	1825	1668	1632	1557	1541	1792	1869	2119	1819	1458	1408	1332	1275	1100	1062	1223	1457	1942	2170	1890	1312	987	913	982	1171	1379	1321	1436	1327			