

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,230 MW
Distillate	0 MW
Total TNB	2,230 MW
Total IPP	18,586 MW
Total Co-Gen	0 MW
Total System	24,663 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,611	5.62 %
Gas	43,132	11.21 %
Total TNB	64,743	16.82 %
ST-Coal	228,601	59.40 %
LSS	5,319	1.38 %
Gas	84,750	22.02 %
Total IPP	318,670	82.80 %
Co-Gen	524	0.14 %
Total Co-Gen	524	0.14 %
Total Generation	383,937	99.76 %
PLTG	-225	-0.06 %
HVDC	-700	-0.18 %
Interconnection	-925	-0.24 %
Net Energy	384,862	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/10/2023	412,454 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	19,728 MW
TNB Generation	2,889 MW
IPP Generation	15,090 MW
Spinning Reserve	1,736 MW
Maximum Demand	18,023 MW
Net Energy	384,862 MWH
Load Factor	88.97 %

Fuel Cost

Total Cost:	87,469,778.73 RM
Cost per Unit	22.74 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	904
Hydro	294
Syncon	587
Thermal	286
Total	2,071

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	43
Total TNB	73
CBPS	41
EMPP	272
NPRI	140
PCGP	88
SPGP	208
Total IPP	750
Total Gas	823
Total Gas Required	823

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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	15788	15053	14435	13861	13430	13248	13394	13584	14006	15838	16682	17067	16845	16601	17285	17823	17921	17832	16737	16610	17910	17990	17526	17226

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 1, 2023 8:08:49 AM

(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																									
ESTL	ESTL	20	22	18	18	16	18	18	18	20	22	22	22	22	26	25	24	22	24	20	22	22	23	15	24	24	15	22	19	16	18	18	16	14	14	18	20	20	23	13	22	22	20	17	16	16	16	15	16	
KHTC	BLK1	-29	-30	-24	-23	-25	-24	-24	-22	-15	-9	-11	-14	-13	-14	-15	-16	-20	-20	-25	-23	-20	-23	-27	-27	-30	-31	-31	-34	-35	-36	-34	-37	-36	-34	-34	-32	-31	-29	-32	-28	-28	-27	-28	-27	-29	-28	-24		
PCUF	CUFG	6	6	6	6	6	7	6	7	5	6	6	7	6	8	7	5	6	6	5	7	6	6	6	6	5	7	7	7	7	7	6	6	7	7	6	6	7	7	8	7	6	7	6	8	6	7			
PCUF	CUFK	25	26	26	25	25	25	3	3	2	2	4	2	3	4	2	1	22	25	26	24	26	25	25	24	26	24	26	27	25	25	25	27	26	26	25	27	25	26	25	25	26	27	25	27	26	26	25	27	
PFTZ	PFTZ	4	4	4	4	4	4	4	4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	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 Co-Gen		26	28	30	30	27	29	8	8	17	25	26	20	20	23	17	15	30	34	28	29	35	31	19	27	25	15	24	19	13	14	16	12	11	13	16	22	20	26	13	26	28	26	21	22	21	21	18	26	
Total Gen		15733	15254	14984	14687	14359	14142	13832	13615	13385	13119	13194	13135	13324	13474	13535	13504	13998	15009	15812	16250	16660	16823	17021	17067	16832	16582	16585	16894	17284	17718	17835	17878	17894	17992	17805	17191	16696	16333	16561	17446	17870	17930	17964	17750	17471	17367	17193	16757	
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TIE-HVDC		-29	-29	-29	-29	-29	-30	-30	-29	-30	-29	-29	-31	-29	-29	-29	-31	-30	-29	-28	-28	-29	-31	-29	-28	-30	-30	-31	-30	-28	-30	-28	-28	-29	-28	-30	-30	-28	-30	-28	-30	-29	-28	-28	-28	-29	-30	-28	-29	
TIE-PLTG		-26	-28	-40	-32	-47	-35	1	-21	-14	-20	-25	-22	-40	-20	-20	4	23	9	3	-10	6	-9	-15	-12	15	-15	14	12	30	52	40	2	1	-3	2	-22	-11	-22	-20	-7	-12	-20	2	-21	-26	-23	-5	-21	
Interconnection		-55	-56	-69	-61	-76	-64	-29	-49	-45	-49	-54	-51	-70	-49	-49	-25	-8	-21	-26	-38	-22	-38	-46	-40	-13	-45	-16	-19	-1	22	12	-28	-27	-31	-27	-50	-41	-52	-49	-37	-40	-48	-26	-49	-55	-54	-33	-50	
System Total		15788	15310	15053	14748	14435	14206	13861	13664	13430	13168	13248	13186	13394	13523	13584	13529	14006	15030	15838	16288	16682	16861	17067	17107	16845	16627	16601	16913	17285	17696	17823	17906	17921	18023	17832	17241	16737	16385	16610	17483	17910	17978	17990	17799	17526	17421	17226	16807	
SRev ST-Coal		494	456	513	1120	1184	1382	1325	1253	1202	1144	1140	1144	1139	1145	1094	955	840	604	472	339	346	262	258	257	267	262	189	164	290	304	293	243	236	245	246	229	184	162	224	227	221	224	218	238	224	223	216		
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	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		313	244	197	157	134	150	296	204	505	870	813	881	686	714	838	1239	1093	838	764	818	864	1132	1354	1353	1643	1879	1884	1748	1564	949	825	822	861	614	695	1133	1473	1814	1504	534	270	498	466	670	1018	1134	1305	1424	
SRev 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	
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	-3	1	0	2	1	-2	-1	0	0	-1	0	0	0	-1	-1	0	0	0	0	1	0	0	0	0	2	0	3	0	0	0	0	0	0	-1	0	0	0	-1	0	0	
Syncon		676	676	525	676	764	764	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	151	302	302	302	302	302		
Hydro		128	172	235	103	81	80	362	271	189	153	147	278	143	143	139	288	133	142	173	174	172	158	214	225	410	245	240	278	258	180	213	177	175	208	232	150	153	285	151	159	372	613	452	469	379	381	382	564	
S.Reserve Total		1785	1722	1644	2230	2250	2463	2746	2578	2743	3018	2950	3004	2824	2844	2972	3320	3032	2669	2392	2315	2226	2398	2505	2512	2835	3067	3062	2891	2512	2095	2018	1968	1955	1736	1848	2208	2531	2808	2493	1593	1545	1482	1444	1659	1937	2040	2212	2506	