

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,335 MW
Distillate	0 MW
Total TNB	2,335 MW
Total IPP	14,294 MW
Total Co-Gen	0 MW
Total System	20,180 MW

Generation Mix

Type	MWh	Percentage
Hydro	20,440	6.05 %
Gas	54,147	16.03 %
Total TNB	74,587	22.09 %
ST-Coal	191,890	56.82 %
LSS	3,162	0.94 %
Gas	68,617	20.32 %
Total IPP	263,669	78.08 %
Co-Gen	157	0.05 %
Total Co-Gen	157	0.05 %
Total Generation	338,413	100.21 %
PLTG	-10	0.00 %
HVDC	720	0.21 %
Interconnection	710	0.21 %
Net Energy	337,703	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:00:00 Hour
Total Set On Bus	16,705 MW
TNB Generation	3,548 MW
IPP Generation	11,855 MW
Spinning Reserve	1,294 MW
Maximum Demand	15,411 MW
Net Energy	337,703 MWH
Load Factor	91.30 %

Fuel Cost

Total Cost:	50,659,657.99 RM
Cost per Unit	14.98 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	297
Hydro	390
Syncon	513
Thermal	196
Total	1,396

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	52
SRDG	2
TJGS	209
Total TNB	262
CBPS	0
KLPP	88
NPRI	162
PLPS	80
SGB3	65
Total IPP	395
Total Gas	657
Total Gas Required	657

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	14653	14011	13489	12970	12535	12285	12219	12027	12183	13291	13824	14338	14536	14666	15102	15411	15271	14948	14301	14413	15391	15379	15238	15116

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 5, 2021 5:18:44 PM

(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	
JMAH	U001	690	695	694	693	693	691	696	692	692	691	692	693	693	690	694	692	695	693	692	692	691	693	692	693	693
JMAH	U002	694	697	697	698	696	696	697	696	696	696	697	693	688	698	698	695	700	696	694	695	699	696	696	694	699
JMHE	U001	976	983	895	901	902	898	899	851	799	799	800	799	800	799	798	803	797	800	800	800	901	898	898	980	980
JMHE	U002	977	980	897	901	898	900	900	848	795	798	799	798	800	799	796	800	801	799	799	801	902	900	899	898	981
JMJG	U001	666	668	666	666	666	666	667	693	659	660	660	662	665	660	660	666	667	672	667	673	667	668	671	665	668
JMJG	U002	673	671	673	658	666	593	599	600	598	603	599	599	605	596	596	596	597	600	592	672	677	680	673	677	675
JMJG	U003	666	675	662	664	669	670	669	666	673	660	671	669	658	666	666	666	670	666	671	669	673	671	666	670	667
PKLG	U003	282	282	281	282	284	281	281	282	281	280	284	283	282	281	281	282	282	281	280	283	279	279	279	280	279
PKLG	U006	445	445	448	449	449	449	450	449	449	448	449	448	449	450	447	448	449	450	447	448	449	449	449	449	450
TBIN	U001	690	691	690	691	692	686	691	689	691	693	693	690	690	691	690	691	690	690	690	691	691	690	690	691	691
TBIN	U002	690	692	692	692	689	691	694	689	687	691	694	690	691	692	688	687	691	688	688	692	691	693	690	689	692
TBIN	U003	695	692	691	691	692	691	692	693	691	691	690	691	693	690	689	690	692	693	690	689	694	693	691	691	691
Total ST-Coal		8144	8171	7986	7986	7996	7912	7941	7814	7712	7716	7728	7715	7717	7711	7692	7728	7716	7721	7713	7796	8024	8015	8009	7998	7992
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
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
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLGR	GT01	84	67	69	68	69	68	68	67	68	67	68	67	68	68	105	104	83	92	101	101	100	100	99	100	103
GLGR	GT02	84	67	67	67	68	67	67	68	67	68	68	68	67	68	67	68	68	104	104	82	93	99	100	100	102
GLGR	ST1C	83	72	72	72	72	73	72	72	72	72	72	72	73	72	72	92	94	86	84	91	91	91	91	91	91
KLPP	GT13	133	71	43	0	0	0	0	0	0	0	0	0	0	0	0	24	56	133	133	134	137	136	136	135	137
KLPP	GT14	154	154	155	113	81	0	0	0	0	0	0	0	0	0	30	71	150	151	154	156	156	157	155	156	156
KLPP	GT15	147	147	147	147	147	82	83	80	81	82	82	81	81	81	80	83	83	140	140	140	140	140	140	140	140
KLPP	ST17	210	193	191	139	132	68	67	69	68	67	68	68	69	68	67	67	68	115	143	148	172	210	211	210	210
NPRI	BLK1	511	511	515	515	515	515	515	518	512	515	515	518	514	506	503	508	515	515	515	510	512	515	516	520	516
NPRI	BLK2	527	530	529	530	530	533	534	534	532	531	535	533	535	524	523	527	533	528	521	528	526	525	521	519	521
PCGP	PGRG	596	600	602	601	603	604	602	603	605	600	601	603	607	602	591	587	595	602	602	588	595	599	602	604	609
PLPS	GT11	127	127	126	127	128	128	129	129	129	129	129	128	128	129	129	128	123	127	125	113	134	136	135	136	135
PLPS	GT12	136	69	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	141	120	121	144	136
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	138	109	132	130	132	134	132	131	
PLPS	ST18	140	117	117	56	57	56	56	56	56	56	56	56	56	56	56	56	56	142	130	141	140	142	142	153	212
SGB3	GT31	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	134	134	134
SGB3	GT32	110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	110	110
SGB3	GT33	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	136	136	136	136	110	110	110	110	110
SGB3	ST34	190	150	70	70	70	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	72	132	132	180
SPGP	BLK1	717	717	717	719	718	717	717	719	717	717	719	717	718	717	718	717	719	716	718	717	719	721	712	707	710
SPGP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	222	225	225	221	223	224	222	222	221	225	222	195	156	160	134	129	133	223	225	219	222	223	221	220	221
TJGS	GT1B	218	218	220	220	220	218	220	220	218	220	219	192	153	157	127	126	130	218	220	215	220	221	215	218	219
TJGS	ST1C	247	244	244	244	244	244	244	244	244	244	244	220	195	189	173	173	170	240	244	244	247	247	247	247	247
TJGS	GT2A	215	216	217	216	218	164	149	150	150	107	108	106	109	108	176	217	217	215	217	215	217	215	215	215	215
TJGS	GT2B	211	211	211	211	211	159	144	144	144	102	104	104	102	104	104	104	103	214	211	211	211	209	212	212	212
TJGS	ST2C	254	254	254	254	254	229	210	210	210	191	191	191	191	191	191	191	191	251	254	254	254	254	256	256	256
Total CCGT-Gas		5536	5180	4970	4701	4668	4512	4381	4271	4270	4259	4165	4086	3996	3981	3880	3871	3890	4467	4720	4950	4895	5034	5228	5238	5248
SRDG	GT05	0	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 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
BSIA	HY01	21	21	21	21	21	21	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY02	23	23	23	23	23	23	23	12	12	12	24	24	24	24	24	24	24	24	24	24	23	11	12	12	12

Daily MW Generation on Thursday

[illegible]

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		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	12	20	25	29	33	35	38	38	34	38	38	15	7	5	1	4	8	2	5	2	0	0	0	0	0	0	0	0	0	0	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	10	14	14	22	13	25	16	24	16	6	8	8	25	18	20	17	14	6	5	3	0	0	0	0	0	0	0	0	0	0	
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	16	21	25	30	23	23	29	30	26	30	30	30	30	30	30	30	30	18	10	4	2	0	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	73	140	219	297	343	396	407	464	432	421	393	416	438	345	326	340	274	226	169	100	68	25	2	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	2	4	4	4	5	2	3	3	3	2	4	4	4	3	3	3	5	4	3	3	3	3	5	4	3	4	3	3	3	3	4	5	4	4	4	2	4	3	4	4	4	4	4	3	4	3	5		
PCUF	CUFK	1	4	2	3	5	2	4	3	3	1	3	2	4	2	2	3	3	3	3	2	3	3	2	3	3	4	3	3	4	3	3	4	3	4	3	2	3	1	4	3	2	4	4	3	3	3	5	5	
Total Co-Gen		3	8	6	7	10	4	7	6	6	3	7	6	8	6	5	6	6	8	6	6	6	5	8	7	7	7	6	7	6	6	8	8	8	7	7	4	7	4	8	6	6	8	8	7	6	7	8	10	
Total Gen		14737	14414	14047	13756	13497	13240	13008	12759	12519	12425	12302	12242	12175	12217	12043	11927	12230	12892	13303	13652	13874	14160	14346	14490	14528	14555	14689	14882	15140	15377	15411	15374	15298	15178	15026	14645	14346	14159	14437	15253	15413	15388	15349	15283	15238	15272	15135	15032	
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		
TIE-HVDC		30	30	31	31	31	31	29	29	30	30	30	30	30	30	30	30	30	30	29	29	29	29	30	30	30	30	31	31	31	31	31	31	31	31	31	30	31	30	30	30	29	31	31	29	31	29	29	29	
TIE-PLTG		57	46	8	-16	-20	18	12	17	-44	17	-10	-6	-70	-25	-11	-13	20	15	-15	39	23	23	-20	-1	-35	-22	-5	21	10	-15	-28	10	-2	18	51	35	18	-30	-3	-2	-6	4	-56	-35	-25	12	-7	25	
Interconnection		87	76	39	14	11	49	41	46	-13	47	20	24	-41	5	19	17	50	44	15	69	53	52	11	29	-5	8	26	52	41	15	3	41	30	48	81	67	48	-1	27	27	25	36	-27	-4	3	41	22	54	
System Total		14653	14341	14011	13745	13489	13194	12970	12716	12535	12381	12285	12221	12219	12215	12027	11913	12183	12851	13291	13586	13824	14111	14338	14464	14536	14550	14666	14833	15102	15365	15411	15336	15271	15133	14948	14581	14301	14163	14413	15229	15391	15355	15379	15290	15238	15234	15116	14981	
SRev ST-Coal		153	126	303	311	298	373	345	372	289	288	278	290	294	310	281	291	285	293	306	273	280	288	297	302	295	284	300	148	129	149	142	130	132	137	143	129	145	133	140	137	150	146	141	157	135	140	149		
SRev CCGT-Gas		364	493	480	382	342	272	403	513	514	525	619	698	788	803	904	913	894	470	433	274	359	321	220	210	200	276	301	334	283	263	339	385	322	368	383	536	713	744	529	187	202	229	245	277	333	407	416	452	
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		
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		
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	2	1	12	0	0	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		651	651	651	651	651	738	825	825	825	825	775	926	926	825	825	926	825	825	825	738	738	651	651	651	651	651	464	464	277	277	277	277	464	464	464	738	839	839	839	464	464	464	464	464	313	126	126	213	
Hydro		215	214	109	132	221	145	105	116	125	209	304	20	21	57	110	153	111	100	61	190	187	304	320	256	190	227	269	410	427	611	534	546	444	467	542	418	424	502	472	402	504	492	508	482	355	396	395	518	
S.Reserve Total		1383	1484	1543	1476	1512	1528	1678	1826	1753	1847	1976	2034	2125	1979	2149	2273	2121	1680	1612	1508	1557	1556	1479	1414	1343	1449	1505	1508	1322	1280	1299	1350	1360	1431	1526	1835	2105	2230	1973	1193	1309	1336	1375	1364	1158	1064	1077	1332	