

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,347 MW
Distillate	0 MW
Total TNB	2,347 MW
Total IPP	15,076 MW
Total Co-Gen	0 MW
Total System	20,711 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,905	6.45 %
Gas	48,121	13.54 %
Total TNB	71,026	19.99 %
ST-Coal	191,580	53.92 %
LSS	2,163	0.61 %
Gas	89,068	25.07 %
Total IPP	282,811	79.59 %
Co-Gen	1,196	0.34 %
Total Co-Gen	1,196	0.34 %
Total Generation	355,033	99.91 %
PLTG	-1,030	-0.29 %
HVDC	726	0.20 %
Interconnection	-304	-0.09 %
Net Energy	355,337	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:	16:00:00 Hour
Total Set On Bus	18,093 MW
TNB Generation	3,553 MW
IPP Generation	13,093 MW
Spinning Reserve	1,399 MW
Maximum Demand	16,705 MW
Net Energy	355,337 MWH
Load Factor	88.63 %

Fuel Cost

Total Cost:	73,302,580.09 RM
Cost per Unit	20.64 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	812
Hydro	329
Syncon	336
Thermal	162
Total	1,639

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	52
TJGS	102
Total TNB	154
CBPS	50
KLPP	82
NPRI	153
PGLA	106
PLPS	71
SGB3	60
SGRI	66
SKSP	1
Total IPP	588
Total Gas	741
Total Gas Required	741

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	14281	13578	13136	12759	12520	12322	12556	12657	13202	14992	15687	16186	16100	16001	16451	16637	16705	16307	15399	15830	16094	15740	15122	14826

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 6:40:26 PM

 (Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	703	705	706	702	704	706	706	704	702	701	703	705	707	706	707	708	706	704	711	706	706	704	706	698	704	712	704	707	703	706	706	704	707	703	706	707	705	707	701	705	705	707	710	702	704	704	704	704	
JMHE	U001	979	979	978	904	850	854	833	854	850	848	850	850	852	847	852	849	848	926	974	965	975	974	976	971	972	974	976	971	973	975	974	975	975	973	971	970	969	972	976	974	973	973	973	973	974	970	974		
JMHE	U002	978	976	977	902	852	851	854	853	849	847	849	850	851	845	851	850	848	975	986	978	977	979	982	979	978	978	978	978	979	980	978	981	977	978	977	976	975	980	980	981	981	979	979	981	985	982	979	981	
JMJG	U001	668	675	669	671	667	671	669	672	674	668	672	668	671	671	669	671	679	673	669	671	672	671	673	672	671	671	672	666	672	667	671	668	672	674	668	672	671	673	669	672	671	671	675	668	671	671	671		
JMJG	U002	673	673	673	672	673	673	677	672	676	674	673	666	676	671	673	667	679	672	683	672	677	673	678	670	682	668	673	671	662	672	669	674	678	672	677	666	671	677	671	673	675	671	675	677	672	673	660	681	
JMJG	U003	670	676	673	673	679	674	677	665	677	672	671	674	672	673	673	677	664	640	643	541	471	377	351	354	349	305	249	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
JMJG	U005	895	892	888	891	858	848	836	851	854	848	850	849	853	848	850	854	845	895	894	895	891	891	892	891	894	892	892	890	890	890	892	895	894	891	892	889	892	892	898	891	891	888	891	894	891	892	890	888	
PKLG	U003	279	279	276	281	281	281	278	281	280	279	284	281	280	279	278	281	279	279	281	277	279	279	279	277	280	275	280	276	279	279	279	280	282	276	282	280	280	281	281	279	280	280	277	280	280	280	280		
PKLG	U004	274	275	272	273	274	273	270	272	275	273	275	275	274	276	276	278	275	274	276	276	274	273	273	275	277	275	275	276	267	262	262	265	261	264	264	263	263	264	265	270	280	275	277	274	277	275	274	278	271
PKLG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	51	93	95	95	142	149	150	152	170	170	170	169	160	242	261	305	362	405	459	468	466	465	463	470	467	468	465	469	472	465	468	470	464	466		
PKLG	U006	52	85	85	85	85	124	160	159	169	117	147	183	227	293	344	372	426	429	410	431	434	429	429	430	440	449	447	448	447	449	446	447	450	445	447	446	446	448	447	450	449	449	449	449	451	450	450	448	
TBIN	U002	703	703	701	703	706	702	704	702	702	701	704	699	704	705	704	704	702	700	710	701	702	697	701	699	702	706	702	699	700	702	702	702	702	702	702	702	702	702	702	702	702	702	702	703	703	701			
TBIN	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	99	226	241	241	241	241	241	350	350	350	350	350	350	350	350	350	350			
TBIN	U004	983	983	950	903	875	850	853	852	853	854	854	855	852	851	858	854	854	911	984	984	983	984	984	982	983	984	984	982	983	985	983	982	983	981	984	985	984	986	984	981	984	984	983	983	981	0	0	0	
Total ST-Coal		7857	7901	7848	7660	7504	7507	7517	7537	7561	7483	7529	7560	7614	7664	7789	7853	7893	8183	8355	8255	8186	8089	8088	8073	8097	8059	7990	8099	7905	8101	8164	8217	8278	8272	8276	8369	8373	8400	8400	8405	8403	8399	8409	8408	8397	7423	7399	7415	
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		
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		
CBPS	BLK2	352	361	351	361	369	357	362	301	214	216	214	221	267	224	228	303	276	367	373	341	374	372	294	361	328	316	353	346	366	360	354	354	355	365	321	287	369	372	373	367	311	357	355	356	354	354	359	360	
GLGR	GT01	67	68	68	69	69	69	68	67	67	68	68	69	68	66	69	67	66	103	105	104	104	103	103	103	103	103	104	104	104	104	104	105	104	103	103	103	105	104	104	105	106	92	68	68	69	68	68	69	
GLGR	GT02	68	68	68	68	68	68	68	67	68	68	68	68	68	69	68	68	68	105	104	104	104	104	104	104	104	104	104	103	104	104	104	104	104	104	104	103	104	104	104	104	90	68	69	68	69	68	69		
GLGR	ST1C	71	72	71	71	72	71	71	72	72	71	71	71	71	71	71	71	90	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	93	93	90	72	71	71	71	71	71		
KLPP	GT13	109	110	106	109	114	109	108	109	109	109	104	109	109	109	109	108	121	122	119	125	134	139	122	122	123	123	123	123	123	122	122	122	123	119	119	123	126	127	125	123	122	123	122	123	121	119	122	122	
KLPP	GT14	118	125	118	86	0	0	0	0	0	0	0	0	0	0	0	0	0	61	154	153	153	154	126	122	121	130	128	147	141	144	147	144	145	140	121	128	130	149	148	143	140	141	141	115	112	112	116		
KLPP	GT15	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	145	110	110	110	110	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140			
KLPP	ST17	178	135	131	129	64	63	65	63	62	62	61	62	63	62	63	61	65	69	146	142	142	212	206	204	204	205	205	210	208	208	208	208	208	207	203	206	207	210	209	208	207	208	207	205	199	200	201		
NPRI	BLK1	503	514	506	512	521	509	513	450	442	444	429	449	449	439	391	421	503	516	520	520	523	518	510	518	512	517	520	512	518	512	516	515	517	512	505	503	515	521	521	518	515	511	512	506	511	504	508	518	
NPRI	BLK2	506	517	509	516	524	514	518	450	440	447	430	319	321	312	321	325	437	520	520	518	527	523	512	521	517	518	521	515	521	516	520	518	521	516	507	508	518	523	519	519	518	515	517	510	513	507	512	522	
PCLG	PGRG	262	264	260	262	273	263	262	261	263	262	261	260	263	262	261	263	261	264	270	263	275	268	303	353	261	261	273	262	307	351	353	353	351	353	351	262	264	268	373	608	515	350	262	261	260	555	493	400	
PGLA	GT11	166	171	166	170	173	172	172	171	168	168	164	171	170	169	171	170	165	219	221	217	219	217	216	216	216	216	219	216	215	215	216	215	215	212	213	169	171	220	219	219	217	218	217	215	217	215	217	218	
PGLA	GT12	170	175	169	174	178	177	175	174	171	173	168	175	175	172	175	174	169	223	225	221	225	222	219	219	218	220	223	220	219	219	221	221	219	219	216	215	173	174	225	223	223	220	222	219	222	220	220	224	
PGLA	ST10	204	206	203	203	205	216	202	204	204	204	200	205	205	204	203	205	203	238	238	238	241	242	237	240	241	240	242	240	241	241	241	240	241	240	239	236	204	205	241	239	238	236							

Daily MW Generation on Wednesday

[illegible]

Daily MW Generation on Wednesday

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
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	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	0	0	0	0	0	0	0	0	0
PCUF	CUFG	26	26	26	26	25	26	25	24	25	25	24	24	25	25	24	24	20	21	20	25	24	25	26	25
PCUF	CUFK	24	26	26	28	25	26	26	25	26	25	27	26	26	25	27	25	26	26	24	25	25	25	26	25
Total Co-Gen		50	52	52	54	50	52	51	49	51	50	52	50	50	51	53	51	51	50	49	49	50	49	52	50
Total Gen		14304	13815	13572	13413	13111	12989	12758	12610	12525	12444	12373	12391	12548	12666	12602	12819	13196	14249	14893	15350	15603	16005	16179	16275
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
TIE-HVDC		29	31	31	31	30	30	30	31	31	30	30	31	31	31	31	31	30	29	29	31	29	29	30	30
TIE-PLTG		-1	-94	-33	-58	-51	-18	-24	-22	-20	26	-8	-36	29	-82	-91	-33	-32	-127	-47	-111	-25	-35	-26	-21
Interconnection		27	-63	-2	-27	-22	12	2	6	9	11	55	22	-5	60	-52	-60	-3	-1	-96	-16	-81	6	-4	5
System Total		14281	13882	13578	13443	13136	12980	12759	12608	12520	12437	12322	12372	12556	12609	12657	12882	13202	14253	14992	15369	15687	16002	16186	16273
SRev ST-Coal		148	152	205	393	420	446	439	438	409	483	445	427	418	423	518	487	450	315	148	163	208	211	196	180
SRev CCGT-Gas		2286	1753	1731	1705	1645	1711	1804	2073	2185	2166	2263	2286	2223	2133	2317	2194	1848	1297	1159	1104	861	1057	851	793
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
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
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
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
Syncon		326	513	513	513	700	700	700	700	549	700	700	700	700	700	700	700	362	362	175	326	326	326	326	326
Hydro		294	57	192	183	54	106	253	76	226	96	118	107	67	89	95	74	112	284	284	400	262	248	324	273
S.Reserve Total		3054	2475	2666	2819	2844	2963	3196	3287	3369	3445	3526	3520	3408	3345	3630	3455	3110	2258	1953	1842	1657	1842	1697	1572