

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,340 MW
Distillate	0 MW
Total TNB	2,340 MW
Total IPP	17,619 MW
Total Co-Gen	0 MW
Total System	24,104 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,084	4.39 %
Gas	68,988	21.50 %
Total TNB	83,072	25.89 %
ST-Coal	184,285	57.43 %
LSS	3,394	1.06 %
Gas	50,051	15.60 %
Total IPP	237,730	74.09 %
Co-Gen	159	0.05 %
Total Co-Gen	159	0.05 %
Total Generation	320,961	100.03 %
PLTG	-638	-0.20 %
HVDC	727	0.23 %
Interconnection	89	0.03 %
Net Energy	320,872	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	15,994 MW
TNB Generation	3,767 MW
IPP Generation	10,992 MW
Spinning Reserve	1,230 MW
Maximum Demand	14,745 MW
Net Energy	320,872 MWH
Load Factor	90.67 %

Fuel Cost

Total Cost:	45,028,220.92 RM
Cost per Unit	14.03 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	153
Hydro	406
Syncon	496
Thermal	422
Total	1,477

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	213
Total TNB	242
CBPS	55
NPRI	159
PLPS	0
YPKA	25
Total IPP	239
Total Gas	481
Total Gas Required	481

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	13492	12916	12497	12043	11766	11512	11553	11545	11713	12838	13352	13726	13808	13929	14363	14677	14745	14489	13732	13700	14661	14642	14487	14361

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, July 5, 2021 5:31:05 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	U001	694	543	502	478	409	401	347	353	350	352	351	351	351	351	351	351	351	351	351	351	351	351	351	351
JMHE	U001	848	847	850	782	780	776	781	778	783	781	783	781	779	781	779	781	781	779	781	781	779	781	779	781
JMHE	U002	850	846	851	779	782	775	782	780	781	780	781	779	781	777	778	782	780	781	780	778	778	777	778	782
JMJG	U001	670	670	672	673	672	669	672	667	646	599	597	597	596	598	598	596	601	666	671	673	671	672	672	683
JMJG	U002	672	671	681	672	671	678	667	668	648	599	601	601	598	600	598	599	598	666	672	671	673	669	681	666
JMJG	U003	666	669	662	662	669	666	669	669	643	594	594	589	594	596	597	596	596	651	670	673	666	667	662	668
JMJG	U005	850	850	796	799	801	801	799	803	801	801	801	801	801	798	801	798	804	800	803	799	800	818	851	848
PKLG	U003	251	152	154	153	155	154	153	152	153	154	154	154	154	155	154	153	153	153	153	154	251	274	271	276
PKLG	U006	414	388	303	274	277	271	269	270	269	271	271	267	269	272	269	269	269	269	269	269	269	269	269	269
TBIN	U001	689	549	500	485	414	401	361	352	351	351	350	351	351	351	349	352	351	481	599	686	684	691	686	688
TBIN	U002	695	548	499	486	427	403	355	352	353	353	353	349	355	350	354	352	354	492	607	695	690	692	693	696
TBIN	U004	854	852	854	851	852	852	853	852	854	852	853	853	853	853	854	853	854	852	852	854	851	850	853	854
Total ST-Coal		8153	7585	7324	7094	6909	6847	6708	6696	6632	6487	6489	6476	6485	6482	6477	6481	6493	6995	7320	7577	7569	7627	7692	7782
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
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
CBPS	BLK2	363	362	362	362	362	356	356	354	356	362	356	363	360	360	363	356	365	365	362	356	362	363	356	363
GLGR	GT01	95	96	95	95	94	94	96	95	95	97	96	96	97	95	94	96	95	96	95	96	95	96	95	96
GLGR	ST1C	40	41	40	40	40	40	40	40	40	40	40	41	40	39	40	40	40	40	40	41	41	41	41	40
NPRI	BLK1	509	509	515	515	515	505	509	501	503	514	511	515	516	512	511	515	509	516	516	514	509	514	513	505
NPRI	BLK2	514	512	518	518	518	509	513	506	508	517	513	520	519	516	514	520	513	521	520	518	514	519	521	518
PCGP	PGRG	603	603	602	602	601	589	597	585	587	602	593	604	605	601	595	602	595	605	605	602	595	603	601	587
PLPS	GT11	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPGP	BLK1	718	718	716	718	717	717	716	717	717	717	717	717	719	719	717	717	717	716	719	717	717	716	718	717
SPGP	BLK2	719	719	718	718	718	719	717	718	719	718	719	718	719	718	719	717	719	717	720	719	718	719	719	718
TJGS	GT1A	229	227	228	227	224	227	228	224	196	163	164	161	164	203	198	200	227	227	226	226	224	223	226	224
TJGS	GT1B	220	218	219	215	218	214	219	214	189	154	152	158	154	196	188	190	217	216	216	213	217	217	214	215
TJGS	ST1C	240	240	240	240	240	240	240	217	190	190	190	214	214	214	241	241	241	241	244	244	244	244	244	244
TJGS	GT2A	188	218	225	220	212	187	187	187	188	189	223	202	185	187	148	204	216	217	217	214	215	215	215	215
TJGS	GT2B	184	214	220	214	208	184	184	184	185	193	183	219	200	182	182	145	199	213	212	211	213	213	213	212
TJGS	ST2C	236	258	257	243	246	236	236	236	242	237	257	254	233	233	210	243	254	254	254	254	254	254	254	254
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	ST10	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 CCGT-Gas		4893	4935	4955	4927	4913	4817	4838	4801	4735	4708	4660	4781	4741	4774	4753	4678	4873	4946	4940	4932	4912	4933	4941	4963
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
BSIA	HY01	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	HY02	24	24	23	24	23	23	23	23	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	10	9	10	10	9	10	10	9	9	9	9	9	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	39	39	39	39	39	39	39	24	25	25	25	26	25	25	25	25	26	26	25	25	25	25	25	25
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY01	64	98	99	99	99	94	90	90	88	95	91	64	67	66	65	62	69	99	67	64	76	64	63	67
KNYR	HY02	0	101	102	102	102	100	97	97	97	96	68	0	0	0	0	0	0	0	0	0	0	0	0	0

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	
SRev ST-Coal		585	683	730	735	729	726	734	735	803	878	877	879	877	879	878	880	875	758	730	605	618	588	571	539	578	554	500	509	451	435	296	303	286	289	287	485	477	466	477	363	294	296	295	285	283	291	279	275
SRev CCGT-Gas		318	133	113	141	155	251	230	267	333	360	408	287	327	294	315	390	195	122	128	136	141	120	142	161	129	131	123	130	161	127	120	129	132	134	174	176	485	665	402	117	128	136	234	249	242	437	450	454
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syncon		926	825	825	825	825	825	825	825	825	825	926	926	739	739	775	739	739	739	739	451	451	451	451	638	739	739	277	464	551	464	464	464	313	464	825	825	825	825	551	464	464	464	464	464	464	464	565	
Hydro		116	137	137	134	137	147	108	98	128	120	174	131	94	231	234	249	234	225	195	251	402	407	474	487	366	261	282	524	468	285	438	459	353	483	486	275	250	261	268	349	504	471	311	400	429	278	393	272
S.Reserve Total		1945	1778	1805	1835	1846	1949	1897	1925	2089	2183	2284	2223	2224	2143	2166	2294	2043	1844	1792	1731	1612	1566	1638	1638	1711	1685	1644	1440	1544	1398	1343	1355	1235	1244	1411	1761	2037	2217	1972	1380	1390	1367	1304	1398	1418	1470	1586	1566