

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	19,331 MW
Total Co-Gen	0 MW
Total System	24,212 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,093	3.39 %
Gas	18,372	6.86 %
Total TNB	27,465	10.25 %
ST-Coal	181,195	67.61 %
LSS	2,687	1.00 %
Gas	56,915	21.24 %
Total IPP	240,797	89.85 %
Co-Gen	257	0.10 %
Total Co-Gen	257	0.10 %
Total Generation	268,519	100.19 %
PLTG	-210	-0.08 %
HVDC	727	0.27 %
Interconnection	517	0.19 %
Net Energy	268,002	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:	21:00:00 Hour
Total Set On Bus	14,826 MW
TNB Generation	2,065 MW
IPP Generation	10,872 MW
Spinning Reserve	1,880 MW
Maximum Demand	12,961 MW
Net Energy	268,002 MWH
Load Factor	86.16 %

Fuel Cost

Total Cost:	43,065,038.33 RM
Cost per Unit	16.05 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	156
Hydro	261
Syncon	948
Thermal	1,042
Total	2,407

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	101
Total TNB	130
CBPS	54
NPRI	150
PLPS	39
YPKA	48
Total IPP	291
Total Gas	421
Total Gas Required	421

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	11644	11132	10712	10308	10005	9809	9741	9759	9570	10107	10508	10809	11025	11202	11515	11832	11857	11691	11397	11534	12943	12961	12879	12812

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	602	614	601	603	606	595	604	603	682	594	357	350	351	350	351	350	351	350	351	350	351	350	351	350
JMAH	U002	325	307	305	308	306	306	306	306	305	306	306	305	306	306	307	305	308	307	306	306	357	350	354	351
JMHE	U001	779	781	777	780	780	781	782	780	780	783	780	780	781	780	780	778	781	779	780	780	780	778	783	780
JMHE	U002	779	780	778	779	781	780	781	781	780	781	779	779	781	781	782	777	779	778	781	779	780	778	780	778
JMJG	U001	401	387	358	282	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMJG	U002	523	524	524	525	524	493	499	442	421	420	421	416	420	419	420	420	420	415	420	420	420	414	420	417
JMJG	U003	414	418	416	414	415	416	416	415	414	416	414	419	414	414	417	470	512	504	498	509	500	508	500	508
JMJG	U004	786	787	785	785	786	786	786	785	786	787	787	786	786	787	787	785	786	785	785	786	786	785	786	785
JMJG	U005	779	781	781	779	781	778	780	777	779	781	779	782	779	778	778	780	781	779	785	785	779	777	779	778
PKLG	U003	149	144	145	145	145	145	145	144	146	147	146	147	146	145	146	145	146	145	145	144	145	144	145	146
PKLG	U004	147	145	142	146	146	150	147	143	145	147	148	149	147	146	146	148	146	145	142	149	148	146	148	151
PKLG	U005	195	116	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	U006	278	269	270	270	268	267	270	269	263	269	269	269	271	268	269	271	267	269	271	265	269	272	301	381
TBIN	U001	323	301	302	302	302	302	302	303	302	303	302	302	302	301	303	301	302	301	303	302	355	352	351	351
TBIN	U002	329	304	303	303	303	304	304	303	304	305	304	303	304	304	304	304	302	302	358	354	354	355	353	352
TBIN	U003	319	303	302	303	303	303	303	304	303	304	304	303	304	303	304	303	302	304	303	359	352	353	353	355
TBIN	U004	781	783	783	781	782	784	782	780	782	783	782	782	782	783	782	783	782	783	782	782	783	782	783	783
Total ST-Coal		7909	7744	7636	7505	7228	7190	7207	7133	7193	7126	6878	6872	6875	6867	6875	6924	6970	6953	6953	6946	6958	6960	7205	7265
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	353	350	350	349	360	356	353	355	355	353	360	362	362	362	367	360	361	361	352	360	353	360	353	353
GLGR	GT02	106	107	95	95	95	96	96	95	96	96	96	96	96	96	96	96	96	96	108	108	107	106	109	107
GLGR	ST1C	45	45	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	46	46	46	47	46	47
NPRI	BLK1	479	447	496	472	499	503	469	484	482	501	517	503	498	519	504	445	418	527	525	524	524	521	527	527
NPRI	BLK2	426	427	479	479	493	505	449	476	469	497	520	506	500	521	508	429	412	529	527	526	527	525	527	511
PCGP	PGRG	576	568	582	580	590	599	552	384	387	386	389	389	390	390	390	392	392	389	383	601	603	597	601	573
PLPS	GT12	145	145	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	128	126	104	122	125	144	125	125	125	124	124	125	125	124	124	144	142	142	141	141	140	138	138	138
PLPS	ST18	143	143	131	91	59	60	58	57	58	58	58	58	58	58	58	58	58	58	58	59	60	61	61	61
TJGS	GT1A	202	197	201	213	224	219	206	215	143	122	187	181	175	182	177	115	128	152	218	140	164	216	164	221
TJGS	GT1B	193	195	197	209	216	213	204	208	129	115	184	175	166	178	170	112	121	149	213	136	157	206	163	219
TJGS	ST1C	209	219	195	223	233	237	227	230	197	179	200	204	201	205	205	163	160	172	219	207	187	226	211	248
YPKA	GT11	126	124	66	65	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	GT12	125	124	66	66	65	77	66	66	66	66	65	66	67	68	68	67	67	68	67	133	133	134	133	133
YPKA	ST10	119	119	86	78	59	34	32	31	31	31	31	31	32	32	32	32	32	32	32	57	57	57	58	57
Total CCGT-Gas		3375	3336	3203	3081	3123	3082	2876	2765	2577	2567	2770	2735	2709	2774	2734	2426	2407	2697	2863	3029	3049	3181	3082	3198
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	11	11	11	11	12	12	12	12	12	12	12	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	8	7	8	8	8	8	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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	HY03	19	19	20	20	20	21	20	21	20	21	21	21	20	21	21	21	21	21	21	20	21	20	20	20
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	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
KNYR	HY04	54	54	54	54	54	55	55	55	55	55	56	57	58	59	57	56	59	65	62	60	61	57	57	57

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																								
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	17	17	17	17	17	17	17	18	18	19	19	17	17	15	15																					
MNOR	HY01	7	7	7	7	7	7	7	7	7	3	3	3	3	3	3	3	3	3	3	4	4	4	4	5	5	5	5																					
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	110	108	22	20	21	22																				
PGAU	HY02	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	82	81	81	81	21	21																				
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	106	107	108	106	110	77	81	78	-1																		
SIHY	HY01	51	51	51	51	51	51	51	51	51	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	51	51	51	51	51																			
SIHY	HY02	50	50	50	50	50	50	50	50	50	27	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50																			
SYPS	HY01	25	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25																			
SYPS	HY02	25	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25																			
SYPS	HY03	25	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25																			
SYPS	HY04	25	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25																			
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	63	59	64	60	80	81	61	59	58																			
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	86	86	65	62	65	63	62																				
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79	80	80	59	57	60	57	57																				
TMGR	HY04	30	29	31	31	33	33	30	32	33	33	33	33	33	33	29	33	30	32	30	33	36	35	35	37	38	35	62	63	58	57																		
UJLI	HY01	-1	-1	-1	-1	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	93	87	89	-7	-7	-7	85	134	138	136	141	86	92	88	86													
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	87	87	91	89	93	89	-1	-1	-1																		
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5															
Total Hydro		352	316	320	342	345	259	255	258	257	184	154	155	177	157	177	164	183	159	160	151	156	151	154	152	156	179	158	191	263	266	257	365	373	361	395	935	1216	1231	1221	1152	922	855	837	752				
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						
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	15	18	21	23	25	27	12	30	26	28	25	27	24	7	5	7	2	1	1	1	0	0	0	0	0	0	0	0			
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	18	25	30	34	38	42	43	47	43	45	47	47	20	43	28	14	21	19	17	7	1	0	0	0	0	0	0	0	0			
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	15	22	30	32	37	38	42	39	29	36	25	30	37	33	30	27	23	16	10	4	0	0	0	0	0	0	0	0				
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	6	14	18	25	24	28	26	29	21	30	30	28	27	24	23	20	16	12	8	4	0	0	0	0	0	0	0	0				
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	24	31	37	39	47	42	31	26	50	50	32	6	2	2	1	2	3	3	2	0	0	0	0	0	0	0	0	0				
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	13	21	27	36	43	45	45	28	50	50	50	37	26	50	40	41	28	30	22	15	9	3	0	0	0	0	0	0	0				
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	12	24	33	35	40	22	22	45	21	24	12	10	8	6	5	5	5	6	4	3	1	0	0	0	0	0	0	0	0				
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	12	29	35	42	44	47	50	50	50	50	50	50	46	41	35	2	21	12	5	0	0	0	0	0	0	0	0					
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	23	32	40	46	51	55	57	57	37	46	37	29	30	20	18	42	33	26	17	8	2	0	0	0	0	0	0	0				
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	11	16	21	25	29	33	36	38	39	40	40	19	26	13	35	6	1	1	2	2	1	0	0	0	0	0	0	0	0				
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	4	34	78	145	233	296	344	374	385	375	399	347	397	335	303	268	273	201	178	139	128	89	45	10	0	0	0	0	0	0	0	0				
PCUF	CUFG	5	5	6	6	5	6	6	6	6	6	5	5	6	5	5	6	7	4	5	8	7	8	5	5	5	5	6	6	6	4	6	5	5	6	6	7	6	5	6	5	6	5	5	5				
PCUF	CUFK	5	5	4	5	6	4	6	5	4	6	6	5	5	3	5	5	8	7	4	5	7	5	6	4	5	5	6	7	5	4	4	6	5	5	5	5	6	5	5	4	4	5	5	4	5			
Total Co-Gen		10	10	10	11	11	10	12	11	10	12	12	10	10	9	10	10	14	14	8	10	15	12	14	9	10	10	11	12	11	10	11	11	8	10	11	10	11	11	12	12	10	11	9	10	11	10	9	10
Total Gen		11646	11406	11169	10939	10707	10541	10350	10167	10037	9889	9814	9772	9771	9807	9796	9510	9574	9899	10126	10382	10501	10656	10835	11008	11053	11200	11252	11406	11522	11683	11828	11849	11897	11896	11775	11584	11463	11345	11521	12304	12922	12934	12946	12901	12870	12844	12784	12625
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			
TIE-HVDC		30	30	30	30	30	31	31	30	30	31	31	30	30	30	31	31	31	31	31	31	31	30	30	30	31	31	31	31	31	31	30	30	30	30	30	31	31	30	29	29	31	31	30	30	30			
TIE-PLTG		-28	19	6	-4	-35	1	12	5	3	-31	-25	5	0	-22	7	31	-27	-28	-11	28	-37	-68	-5	-7	57	19	13	-23	-28	-31	-20	13	32	58	48	40	5	-40	-27	-47	-30	-41	-24	-36	-67	-55	-22	
Interconnection		2	50	37	26	-5	32	42	35	32	0	5	35	30	8	37	62	4	2	19	59	-7	-38	26	23	28	88	50	44	7	3	0	10	44	62	88	79	70	36	-9	3	-17	0	-12	7	-6	-36	-25	7
System Total		11644	11356	11132	10913	10712	10509	10308	10132	10005	9889	9809	9737	9741	9799	9759	9448	9570	9897	10107	10323	10508	10694	10809	10985	11025	11112	11202	11362	11515	11680	11832	11843	11857	11838	11691	11509	11397	11313	11534	12305	12943	12938	12961	12897	12879	12883	12812	12621
SRev ST-Coal		1130	1106	1134	1086	1014	1022	1016	1015	1021	1082	1078	1078	1078	1077	1076	1077	1078	1078	1079	1077	1079	1077	1076	1034	1026	1026	1024	1027	1026	1023	1025	1021	1031	1026	1027	1024	1023	1023	1023	1023	1026	1021	1023	1026	1024	1024	1029	
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		
SRev CCGT-Gas		354	393	525	504	389	235	441	552	740	750	547	582	608	543	583	891	910	620	454	288	268	136	235	119	56	185	92	167	71	118	132	137	89	71	149	127	97	207	52	246	154	125	128	93	157	103	163	231
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																							

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	
Hydro		149	185	181	310	243	142	146	143	144	167	147	146	275	144	275	155	152	144	144	137	269	142	141	150	145	150	147	149	145	273	139	261	225	222	231	210	109	121	238	504	397	382	393	462	716	596	614	548
S.Reserve Total		2895	2946	3092	3000	2710	2651	2853	2961	3157	3249	3022	3058	3062	3017	3035	3375	3388	3090	2930	2756	2710	2607	2701	2598	2487	2613	2516	2590	2494	2518	2545	2523	2402	2389	2470	2342	2400	2521	2331	2109	1912	1870	1881	1916	2236	2248	2327	2484