

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,319 MW
Distillate	0 MW
Total TNB	2,319 MW
Total IPP	16,029 MW
Total Co-Gen	72 MW
Total System	21,499 MW

Generation Mix

Type	MWh	Percentage
Hydro	5,870	1.81 %
Gas	33,566	10.34 %
Total TNB	39,436	12.15 %
ST-Coal	201,484	62.06 %
LSS	1,602	0.49 %
Gas	80,019	24.65 %
Total IPP	283,105	87.20 %
Co-Gen	1,477	0.45 %
Total Co-Gen	1,477	0.45 %
Total Generation	324,018	99.81 %
PLTG	67	0.02 %
HVDC	-693	-0.21 %
Interconnection	-626	-0.19 %
Net Energy	324,644	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:00:00 Hour
Total Set On Bus	17,342 MW
TNB Generation	2,166 MW
IPP Generation	13,443 MW
Spinning Reserve	1,664 MW
Maximum Demand	15,705 MW
Net Energy	324,644 MWH
Load Factor	86.13 %

Fuel Cost

Total Cost:	59,569,048.36 RM
Cost per Unit	18.38 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	791
Hydro	175
Syncon	1,029
Thermal	175
Total	2,170

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	192
Total TNB	241
CBPS	51
KLPP	58
NPRI	145
PGLA	68
PLPS	46
SGB3	35
SGRI	54
SKSP	3
YPKA	24
Total IPP	483
Total Gas	724
Total Gas Required	724

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	14852	14175	13777	13373	13064	12749	12631	12116	11301	11566	12222	12664	12847	13019	13334	13510	13639	13719	13590	14022	15564	15705	15691	15433

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	693	691	692	693	692	692	693	692	692	693	694	694	695	692	694	692	694	689	690	692	690	695	693	694
JMAH	U002	694	694	693	693	694	694	693	693	694	696	693	693	692	695	693	696	694	694	692	696	694	693	696	694
JMHE	U001	318	322	319	320	320	317	319	322	320	322	321	321	320	320	321	322	319	524	523	439	440	443	442	446
JMJG	U001	672	671	673	671	673	667	671	678	671	672	672	672	673	672	671	672	671	674	672	677	673	672	671	671
JMJG	U002	670	671	678	671	674	668	668	672	675	674	671	674	672	672	670	673	673	671	672	672	669	674	673	671
JMJG	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
JMJG	U004	981	983	982	982	982	979	905	816	786	783	783	783	785	785	785	785	786	785	785	786	785	783	862	852
JMJG	U005	977	979	974	975	976	975	861	777	780	777	779	778	780	778	781	774	781	783	781	779	780	782	778	781
PKLG	U003	275	275	279	283	279	275	280	282	280	280	282	285	286	281	286	190	150	150	151	149	177	296	287	284
PKLG	U004	278	277	278	277	276	277	277	275	272	250	238	203	235	279	277	173	145	146	148	148	172	263	280	282
PKLG	U005	470	469	469	471	468	468	468	470	470	470	468	470	468	468	387	312	262	267	263	269	341	431	466	469
PKLG	U006	467	468	465	467	463	468	465	465	470	469	468	468	461	462	466	391	313	269	268	267	318	376	430	465
TBIN	U001	686	690	690	691	691	691	691	692	690	691	689	691	688	691	690	695	690	691	692	690	690	692	691	689
TBIN	U002	693	689	694	694	692	691	693	694	693	693	692	692	694	694	693	693	693	694	695	692	694	693	692	694
TBIN	U003	691	688	691	692	691	691	691	691	694	691	691	692	693	692	693	692	691	691	691	692	690	691	691	689
Total ST-Coal		8565	8567	8577	8580	8571	8553	8375	8219	8187	8159	8147	8115	8141	8179	8189	7832	7615	7723	7736	7635	7744	8085	8241	8308
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	359	351	354	362	358	361	362	363	362	361	360	362	358	362	222	215	216	208	216	218	221	218	220	223
GLGR	GT01	68	66	67	68	67	67	67	69	67	68	69	69	68	67	69	68	68	67	66	66	66	66	68	67
GLGR	GT02	68	68	68	68	68	67	68	68	67	67	68	68	68	68	67	69	70	68	67	67	67	68	68	67
GLGR	ST1C	70	70	71	70	71	71	71	70	71	71	70	71	72	71	70	71	71	70	71	71	71	71	72	89
KLPP	GT13	114	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT14	125	123	113	116	115	125	130	132	130	129	130	133	130	133	133	129	129	129	132	131	130	132	129	130
KLPP	GT15	121	121	111	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	ST17	191	187	146	109	51	51	51	51	51	53	53	52	52	55	51	51	51	52	52	52	53	55	53	51
NPRI	BLK1	502	490	494	489	505	517	515	494	481	430	470	425	408	332	383	334	329	322	320	329	468	355	405	394
NPRI	BLK2	506	494	496	489	508	523	514	494	487	429	471	426	409	333	383	329	328	321	316	328	464	353	406	397
PCGP	PGRG	603	588	588	605	603	597	601	604	602	599	603	602	602	602	402	251	252	252	394	600	602	602	601	598
PGLA	GT11	168	164	165	169	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT12	171	167	168	174	164	164	211	212	232	164	165	170	164	161	162	158	160	158	154	155	175	156	160	160
PGLA	ST10	207	205	205	206	143	90	100	109	104	91	90	92	92	89	90	89	90	89	90	90	92	91	91	91
PLPS	GT11	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT12	119	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	112	123	126	130	128	129	130	130	129	127	129	130	129	129	130	129	128	125	124	129	128	127	129	129
PLPS	ST18	181	135	60	60	60	60	60	59	60	59	59	60	59	60	59	59	58	60	59	58	59	59	59	59
SGB3	GT33	108	105	105	110	110	110	110	109	110	105	108	109	108	110	110	110	106	104	104	106	106	108	108	109
SGB3	ST34	64	64	61	64	66	64	64	64	64	64	64	64	64	64	62	62	62	62	62	62	64	64	64	64
SGRI	GT13	108	102	106	105	105	105	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST14	64	64	65	66	65	65	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT23	106	107	107	107	107	107	107	107	104	104	105	105	105	105	104	104	104	100	100	105	104	104	104	104
SGRI	ST24	62	57	61	61	58	60	61	60	60	60	61	58	60	62	61	58	60	58	62	63	62	59	60	60
SKSP	BLK1	217	218	217	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	157	145	155	173	161	182	163	211	219	205	158	161	165	158	161	156	155	151	146	161	171	151	152	151
TJGS	GT1B	151	137	149	160	151	174	153	204	206	199	151	155	157	152	155	152	148	142	139	147	162	143	149	144

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																										
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-28	-28	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-28	-28												
TIE-PLTG		32	34	14	-44	-37	-9	-44	-61	6	-14	19	-50	6	-36	9	-30	-17	31	-12	-12	-7	-107	-18	-4	49	43	-11	45	18	30	24	-11	70	17	21	-11	52	40	-8	26	8	20	2	-6	-19	5	32	53		
Interconnection		3	6	-15	-73	-67	-39	-72	-89	-24	-43	-10	-78	-23	-65	-20	-59	-45	2	-41	-42	-36	-136	-46	-32	20	13	-40	17	-12	1	-5	-40	40	-13	-7	-40	24	11	-36	-3	-20	-8	-27	-35	-48	-24	4	25		
System Total		14852	14561	14175	14144	13777	13511	13373	13171	13064	12832	12749	12732	12631	12403	12116	11518	11301	11339	11566	11786	12222	12450	12664	12696	12847	12748	13019	13131	13334	13405	13510	13696	13639	13790	13719	13684	13590	13597	14022	15067	15564	15622	15705	15685	15691	15650	15433	15171		
SRev ST-Coal		148	146	136	133	142	160	295	279	281	300	236	268	245	204	281	219	216	196	189	231	233	183	152	85	108	86	81	-76	-91	67	68	97	298	312	315	306	312	306	307	181	193	214	230	231	216	268	164	175		
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	0	
SRev CCGT-Gas		1241	1187	1097	1214	973	752	723	573	579	802	842	917	965	1274	1530	1810	1818	1871	1739	1461	1134	1417	1303	1329	1069	1206	1064	942	808	763	690	527	469	345	397	652	1056	1195	969	576	341	271	359	299	312	471	720	628		
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	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	0
SRev Co-Gen		14	9	8	8	7	8	7	6	8	7	5	4	7	6	4	5	5	7	8	12	11	15	16	16	20	20	19	19	19	21	20	21	18	14	16	16	12	10	11	8	8	8	3	2	1	3	4	4		
Syncon		1115	1115	1115	964	1115	964	1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1115	1115	1115	964	964	1115	1115	1115	1115	1115	1115	1216	1216	964	1115	1115	1115	1115	964	1117	1115	1115	1115	964	928	928	741	928	928	928	1115	1115		
Hydro		149	155	153	279	150	281	148	146	148	149	149	279	149	149	147	151	150	155	155	225	223	40	39	40	39	93	185	146	146	275	149	148	149	148	297	150	151	154	150	278	238	237	331	232	232	235	141	148		
S.Reserve Total		2667	2612	2509	2598	2387	2165	2288	2119	2131	2373	2347	2432	2481	2748	3077	3300	3304	3344	3206	2893	2565	2770	2625	2585	2351	2520	2464	2247	2098	2090	2042	1908	2049	1934	1989	2241	2646	2780	2552	2007	1708	1658	1664	1692	1689	1905	2144	2070		