

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,320 MW
Distillate	0 MW
Total TNB	2,320 MW
Total IPP	15,832 MW
Total Co-Gen	0 MW
Total System	20,397 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,949	2.91 %
Gas	43,763	11.64 %
Total TNB	54,712	14.56 %
ST-Coal	203,736	54.21 %
ST-Gas	5,333	1.42 %
LSS	1,389	0.37 %
Gas	108,816	28.95 %
Total IPP	319,274	84.95 %
Co-Gen	1,111	0.30 %
Total Co-Gen	1,111	0.30 %
Total Generation	375,097	99.80 %
PLTG	-149	-0.04 %
HVDC	-605	-0.16 %
Interconnection	-754	-0.20 %
Net Energy	375,851	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:	16:00:00 Hour
Total Set On Bus	19,325 MW
TNB Generation	2,897 MW
IPP Generation	14,914 MW
Spinning Reserve	1,469 MW
Maximum Demand	17,923 MW
Net Energy	375,851 MWH
Load Factor	87.38 %

Fuel Cost

Total Cost:	73,415,222.90 RM
Cost per Unit	19.56 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	289
Hydro	482
Syncon	601
Thermal	167
Total	1,539

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	53
PGPS	41
SRDG	22
TJGS	210
Total TNB	325
MPSS	30
NPRI	151
PGLA	112
PKLG	7
PLPS	88
PTEK	33
SGRI	154
SKSP	51
YPKA	86
PKLG	53
Total IPP	768
Total Gas	1,093
Total Gas Required	1,093

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	15059	14269	13732	13351	12986	12865	12932	12950	13487	15531	16505	17163	17185	16885	17482	17751	17923	17540	16251	16203	17139	17117	16787	16423

Daily MW Generation on Monday

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	692	693	691	693	691	692	691	693	692	691	693	692	693	694	694	693	692	691	693	693	695	691	693	693	695
JMAH	U002	694	695	694	695	694	694	695	694	693	695	693	692	694	698	694	693	695	688	694	694	695	694	694	692	692
JMHE	U002	326	323	324	326	326	325	324	322	326	327	326	324	326	326	325	326	330	323	465	518	522	519	520	407	251
JMJG	U001	677	677	675	673	678	674	678	676	676	680	677	677	673	678	674	685	676	692	700	671	669	672	684	671	673
JMJG	U003	668	668	668	667	666	667	665	670	668	666	670	668	667	667	666	667	666	668	667	669	666	666	668	665	666
JMJG	U004	979	947	860	804	804	803	804	803	805	804	803	804	804	804	804	816	905	980	978	979	977	975	976	975	977
JMJG	U005	979	931	799	804	801	799	804	801	799	804	803	803	801	803	801	801	803	828	923	981	980	980	979	977	981
PKLG	U003	286	286	284	283	283	282	281	281	282	284	284	282	284	285	282	281	282	281	280	283	281	282	289	284	284
PKLG	U004	284	288	281	280	278	278	277	269	277	277	280	280	281	282	282	278	281	278	280	278	280	281	280	279	281
PKLG	U005	471	468	471	470	471	470	470	469	470	471	473	470	471	471	470	467	469	470	470	470	470	470	471	470	471
PKLG	U006	469	476	470	467	466	372	376	437	465	463	471	469	468	465	470	461	473	465	465	478	471	468	456	470	487
TBIN	U001	691	691	690	690	691	690	532	692	691	691	690	692	692	693	691	690	691	690	688	692	687	690	692	690	691
TBIN	U002	694	692	692	696	691	692	692	693	692	695	692	691	693	694	692	691	692	692	692	693	689	691	693	690	695
TBIN	U003	693	693	691	693	693	692	690	692	691	693	691	690	692	692	693	691	691	692	692	693	692	691	692	692	690
Total ST-Coal		8603	8528	8290	8241	8233	8130	7979	8192	8233	8238	8245	8228	8244	8245	8254	8222	8253	8291	8453	8594	8724	8771	8764	8772	8793
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
PKLG	U002	145	145	145	145	145	145	145	145	145	145	145	145	145	154	240	271	275	279	281	285	283	283	284	283	282
Total ST-Gas		145	145	145	145	145	145	145	145	145	145	145	145	145	154	240	271	275	279	281	285	283	283	284	283	282
GLGR	GT01	84	89	102	86	66	67	66	67	67	66	66	66	66	67	70	90	94	102	103	102	96	89	102	102	95
GLGR	GT02	86	90	103	87	68	69	68	69	68	70	69	69	68	69	68	69	72	94	96	104	104	105	97	89	104
GLGR	ST1C	82	84	90	86	71	71	70	71	71	71	71	71	71	71	71	82	90	90	94	93	89	85	94	93	92
MPSS	GT01	106	107	108	91	91	91	89	90	87	88	88	88	90	88	90	91	93	89	89	87	91	89	109	106	104
MPSS	ST01	49	51	51	44	40	39	37	39	38	38	38	37	37	38	38	36	37	37	38	38	48	51	51	50	50
NPRI	BLK1	511	515	511	508	515	515	511	505	416	328	332	325	343	356	327	374	517	524	515	515	515	522	516	516	512
NPRI	BLK2	513	517	514	509	517	518	515	508	394	328	325	319	339	355	329	374	527	535	517	518	518	523	518	517	516
PCGP	PGRG	603	604	601	597	602	600	600	605	592	498	499	494	442	598	601	501	608	615	603	602	603	608	604	602	600
PGLA	GT11	199	209	206	175	167	168	167	167	162	166	167	164	168	166	167	168	185	231	224	226	224	226	224	223	226
PGLA	GT12	203	213	210	178	171	171	170	171	166	170	170	167	172	170	173	190	236	229	229	228	230	228	228	227	225
PGLA	ST10	228	238	240	219	216	207	207	207	204	204	202	203	204	206	204	211	248	243	243	248	246	246	248	250	246
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	79	80	95	93	92	92	93	93	
PGPS	GT3B	94	95	95	72	71	72	71	71	71	71	71	71	71	71	71	72	73	71	71	94	94	93	93	94	93
PGPS	ST3C	44	44	44	39	31	31	31	31	31	31	31	30	30	30	31	30	31	31	30	51	90	92	90	90	
PLPS	GT11	133	136	135	130	128	129	129	129	123	129	126	124	129	126	128	129	132	132	127	131	129	134	138	138	
PLPS	GT12	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	151	147	143	141	
PLPS	GT13	129	132	130	6	0	0	0	0	0	0	0	0	0	0	0	25	62	143	143	141	142	134	133	125	
PLPS	ST18	187	141	142	97	57	58	58	58	58	57	58	58	58	58	58	60	65	143	145	212	213	211	210	207	
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	137	131	122		
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	136	136	137	137	138	137	126	
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	35	35	35	35	35	64	132	131	131	131	128	134	132		
SGRI	ST14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	73	69	144	148	147	140	210		
SGRI	GT21	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	138	135	137	137	137	136	125	
SGRI	GT22	114	114	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	141	141	138		
SGRI	GT23	111	112	107	108	112	112	108	109	105	109	109	109	109	109	108	115	115	113	112	109	141	141	131	126	
SGRI	ST24	192	158	117	61	60	60	60	60	60	61	61	61	61	60	61	58	59	69	136	138	202	208	214	212	
SKSP	BLK1	308	229	338	295	225	228	222	217	219	223	221	220	219	220	218	217	251	344	343	308	327	332	331	331	
TJGS	GT1A	230	232	234	233	231	231	220	137	130	138	135	127	138	132	135	137	156	232	225	227	228	222	225	226	
TJGS	GT1B	222	224	224	217	223	220	210	129	122	127	124	118	129	124	126	129	149	225	216	217	211	215	215	215	

2 of 3

Daily MW Generation on Monday

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
BDLS	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
CHLS	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
GBLS	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
GNLS	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
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
SPLS	LSS1	0	-1	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
Total LSS		0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	23	17	18	18	19	17	18	18	16	18	16	12	13	16	17	16	18	17	17	16	17	17	17	18
PCUF	CUFK	31	31	31	28	30	30	32	28	31	30	31	33	33	31	31	29	30	29	30	30	28	30	29	29
Total Co-Gen		54	48	49	46	49	47	50	46	47	48	47	45	46	47	48	45	46	47	44	47	43	46	45	45
Total Gen		15083	14685	14314	14018	13734	13549	13317	13194	12969	12769	12805	12739	12803	12947	12922	12958	13407	14673	15461	15940	16420	16758	17107	17321
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		31	31	30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29
TIE-PLTG		-3	-23	20	26	35	-6	-1	12	16	14	-27	17	-96	2	5	41	-48	13	-38	-50	-52	-54	-23	-33
Interconnection		28	9	49	-3	6	-36	-30	-17	-13	-15	-56	-12	-125	-27	-24	12	-76	-16	-66	-79	-81	-83	-52	-62
System Total		15059	14680	14269	14025	13732	13589	13351	13215	12986	12788	12865	12755	12932	12978	12950	12950	13487	14693	15531	16023	16505	16845	17163	17387
SRev ST-Coal		110	185	271	274	275	256	283	106	277	274	265	281	265	266	255	287	258	258	256	299	169	142	149	141
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	2	-1
SRev CCGT-Gas		546	410	349	700	768	847	928	1263	1525	1733	1843	1888	1865	1702	1738	1747	1334	578	328	493	262	270	231	243
SRev ST-Gas		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	39	44	17	13	9	7	3	5
SRev LSS		0	2	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	6	5	8	-2	0	-3	1	0	-1	0	2	1	0	-1	1	-1	-1	3	1	0	2	2	1
Syncon		777	928	928	827	827	827	827	827	827	827	827	827	827	928	928	928	338	626	626	439	439	439	439	439
Hydro		274	142	143	118	113	114	117	114	119	117	117	119	246	116	115	115	103	100	161	596	418	429	537	574
S.Reserve Total		1745	1711	1734	1965	2019	2082	2190	2349	2786	2988	3090	3155	3091	2949	2972	3016	2660	1904	1716	1742	1491	1477	1363	1404
		1592	1825	1508	1362	1287	1215	1447	1427	1473	1503	1741	1908	2123	2059	1877	1703	1641	1608	1654	1703	1820	1621	1667	1839