

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,791 MW
Hydro	2,059 MW
Distillate	0 MW
Total TNB	4,850 MW
Total IPP	15,923 MW
Total Co-Gen	40 MW
Total System	21,377 MW

Generation Mix

Type	MWh	Percentage
Gas	30,839	11.14 %
Hydro	18,066	6.53 %
Total TNB	48,905	17.67 %
ST-Coal	182,594	65.96 %
Gas	45,786	16.54 %
Total IPP	228,380	82.50 %
Co-Gen	130	0.05 %
Total Co-Gen	130	0.05 %
Total Generation	277,415	100.22 %
PLTG	-122	-0.04 %
HVDC	728	0.26 %
Interconnection	606	0.22 %
Net Energy	276,809	100.00 %

Maximum Demand Record

Date: 4/20/2016	17,788 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	21:30:00 Hour
Total Set On Bus	14,130 MW
TNB Generation	2,948 MW
IPP Generation	10,039 MW
Spinning Reserve	1,138 MW
Maximum Demand	12,966 MW
Net Energy	276,809 MWH
Load Factor	88.95 %

Fuel Cost

Total Cost:	41,742,778.94 RM
Cost per Unit	16.09 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	667
Hydro	266
Syncon	969
Thermal	365
Total	2,267

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	45
TJGS	181
Total TNB	225
CBPS	55
NPRI	146
PGLA	52
PLPS	36
Total IPP	288
Total Gas	514
Total Gas Required	514

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	12886	12365	11888	11385	11107	10745	10756	10607	10210	10336	10774	10976	11118	11282	11471	11598	11554	11421	11391	11804	12922	12960	12636	12541

Daily MW Generation on Friday

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																											
JMJG	U001	676	671	676	675	677	673	675	681	673	677	675	676	677	674	673	675	673	673	673	673	679	676	679	676	674	676	681	674	674	673	675	677	677	676	673	676	675	675	668												
JMJG	U002	671	672	669	672	671	670	669	671	675	673	671	669	673	670	671	653	657	657	656	675	677	677	677	677	678	677	677	678	677	682	680	675	674	686	674	683	675	679	677	673	676	681									
JMJG	U003	666	667	666	662	675	668	666	669	673	669	671	669	665	663	668	645	657	653	653	673	671	671	673	675	671	671	677	670	677	674	673	674	679	673	671	683	674	667	672	681	666	682	671	676	672	669	674	682			
JMJG	U004	855	854	850	854	845	785	756	757	752	758	757	756	757	753	757	757	743	704	703	704	704	704	703	704	701	704	703	702	701	703	702	702	703	700	700	752	810	832	834	834	834	832	834	834							
JMJG	U005	851	848	813	801	796	744	753	750	752	750	751	752	751	751	752	702	703	702	704	700	704	700	698	702	702	701	699	701	701	701	700	702	701	699	700	701	701	702	790	801	796	800	801	801	801	799	801				
PKLG	U003	281	282	284	282	282	282	282	284	242	204	198	146	146	146	147	147	147	147	147	151	262	286	283	281	280	283	278	282	281	282	281	285	286	282	282	283	286	283	283	281	283	281	281	281	255	208	206				
PKLG	U004	279	280	280	280	278	280	281	278	279	246	206	200	147	147	147	148	152	151	154	226	274	280	280	278	279	279	278	280	280	279	281	281	281	278	277	279	279	278	278	281	277	251	205	204							
PKLG	U005	470	469	470	467	466	467	404	326	269	268	269	271	269	269	273	271	268	269	269	269	267	269	271	265	267	269	269	269	269	269	268	271	269	268	269	269	288	363	469	468	467	470	415	332	268						
PKLG	U006	470	468	470	468	470	469	469	470	469	470	468	470	468	471	471	469	471	472	470	468	469	470	471	470	468	468	471	466	470	471	471	469	470	469	470	469	472	470	470	470	470	470	468	469	470	470	470	470			
TBIN	U001	687	687	686	688	687	688	689	689	690	689	689	686	687	690	689	660	634	633	629	630	690	690	687	688	689	687	689	690	687	689	688	685	688	689	689	688	688	688	690	688	689	690	688	690	687	690	686	688			
TBIN	U002	695	693	689	692	694	693	692	693	689	692	693	689	693	696	690	661	646	632	632	633	691	689	686	692	690	689	689	691	693	687	690	690	691	693	691	689	685	690	692	689	691	693	689	690	687	695	689	691			
TBIN	U003	691	692	689	687	692	690	691	690	691	689	691	691	691	689	690	660	645	632	632	630	690	692	692	690	689	690	686	689	691	690	691	690	688	691	688	687	695	689	690	691	689	689	691	689	689	692	689	692			
TBIN	U004	894	851	857	850	825	764	755	750	754	751	752	752	751	753	750	715	700	702	703	701	702	703	701	702	701	702	701	702	701	702	701	702	701	700	701	802	802	802	801	803	801	800	802	802	802	802	802				
Total ST-Coal		8186	8134	8099	8078	8058	7873	7782	7706	7650	7574	7497	7479	7375	7372	7377	7137	7076	7010	7008	7056	7247	7428	7492	7503	7491	7488	7498	7486	7501	7505	7501	7496	7509	7506	7497	7516	7503	7506	7589	7942	8002	8044	8020	8033	8022	7918	7739	7687			
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	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	0	0	0	
CBPS	BLK2	362	360	366	360	365	359	360	360	369	359	358	358	365	362	360	362	360	360	362	365	365	365	357	356	353	303	305	365	365	365	363	367	365	366	366	372	365	344	349	357	350	357	352	352	346	350	350	359			
GLGR	GT01	67	68	68	67	66	67	69	68	68	69	68	70	69	69	69	68	68	68	68	70	70	68	69	69	67	69	67	69	67	68	68	68	68	68	68	68	68	65	68	68	68	66	68	67	68	69	69				
GLGR	GT02	67	68	68	67	67	68	68	68	68	67	68	68	68	68	68	69	70	68	68	68	68	68	68	68	68	67	68	68	67	68	67	68	67	68	67	68	67	68	67	67	68	68	67	68	68	68	68	68			
GLGR	ST1C	72	71	72	72	72	71	72	71	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	72	72	72	72	71	72	72	72	71	72	72	71	71	72	72	72	72	72				
NPRI	BLK1	509	503	487	388	482	427	399	461	374	358	398	415	488	468	439	421	368	410	481	475	506	474	443	482	506	500	517	505	514	494	512	512	505	503	503	518	518	461	499	523	473	517	513	515	448	511	518	520			
NPRI	BLK2	482	507	493	391	488	433	400	462	369	355	401	416	489	470	442	421	367	405	486	480	509	471	446	484	507	505	521	507	517	500	515	515	508	502	507	523	521	455	454	526	471	521	514	518	446	515	519	524			
PCGP	PGRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	110	110	110	110	260	330	330	350	350	350	350	350	350	350	350	350	350	350	350	350	350	260	190	190	190	190	115	0	0	0	0
PGLA	GT11	203	154	150	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PGLA	GT12	206	154	150	150	155	155	157	156	159	158	156	157	158	157	158	158	161	158	157	158	157	157	156	156	156	158	157	155	157	155	157	156	156	158	157	151	154	159	156	204	208	208	206	209	208	212					
PGLA	ST10	233	208	202	108	94	93	92	92	92	92	92	91	91	91	89	91	89	91	92	91	91	91	91	91	91	91	91	92	92	92	92	92	92	92	92	92	92	92	91	91	91	98	110	109	109	109	109				
PLPS	GT12	122	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PLPS	GT13	111	123	125	124	125	123	124	124	127	125	125	124	125	124	124	124	119	120	120	119	120	120	120	120	119	119	120	119	120	120	119	119	119	119	122	121	115	129	132	128	133	129	129	129	130	128	132				
PLPS	ST18	135	93	60	59	59	59	59	59	59	59	59	59	59	59	58	59	59	58	57	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	59	59	60	60	60	60	60	60	60	61			
TJGS	GT1A	222	222	222	222	195	195	195	195	195	195	154	136	127	130	130	130	130	130	130	127	127	175	157	140	126	126	129	161	161	224	224	223	220	224	162	138	141	221	223	223	223	223	223	223	223	223	223	223			
TJGS	GT1B	217	217	217	217	189	189	189	189	189	189	146	128	120	123	123	123	123	123	123	123	166	149	133	120	123	123	155	155	215	215	215	215	215	215	155	134	134	209	216	213	213	213	213	213	213	213	213	216			
TJGS	ST1C	249	249	249	249	224	224	224	224	224	202	182	172	172	172	172	172	172	172	172	172	198	201	182	172	172	172	194	194	247																						

Daily MW Generation on Friday

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
KNRG	HY02	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
KNRG	HY03	24	24	24	24	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
KNYR	HY01	101	99	99	97	99	90	99	98	99	92	99	100	98	100	99	97	97	100	99	87	95	100	63	87
KNYR	HY02	99	101	101	98	100	102	101	102	101	101	100	101	102	102	102	102	101	96	101	90	101	96	95	90
KNYR	HY03	100	99	100	100	99	100	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
KNYR	HY04	100	101	101	100	101	101	100	97	100	100	100	101	99	100	100	99	98	100	100	91	101	101	87	100
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	16	8	8	8	8	8	8	19	15	15	15
LPIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	6	6	6	6	6	6	3	4	4
PGAU	HY01	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	21	20	20	20	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	20	21	21	21	21	-1	-1	-1	-1	21	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	21	21	21	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	50	50	50	50	50	50	50	50	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY02	38	38	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY03	35	35	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UPIA	HY01	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
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	
Total Hydro		806	743	627	622	627	575	583	581	583	598	582	587	583	607	586	582	581	601	580	541	567	560	598	
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	
PCUF	CUFK	4	6	6	5	5	5	5	6	5	4	5	5	5	5	5	5	5	5	4	6	5	6	5	
Total Co-Gen		4	6	6	5	5	5	5	6	5	4	5	5	5	5	5	5	5	4	6	5	6	4		
Total Gen		12953	12584	12361	12028	11957	11613	11387	11325	11106	10887	10783	10749	10768	10750	10676	10392	10222	10251	10374	10485	10767	10987		
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	
TIE-HVDC		30	30	30	30	30	31	31	30	30	30	30	30	30	30	31	31	31	31	31	31	31	30		
TIE-PLTG		37	-6	-34	4	39	-9	-29	-26	-31	-21	8	18	-19	3	38	21	-18	16	7	7	-38	9		
Interconnection		67	24	-4	34	69	22	2	4	-1	9	38	48	12	33	69	51	12	47	38	38	-7			
System Total		12886	12560	12365	11994	11888	11591	11385	11321	11107	10888	10745	10701	10756	10717	10607	10341	10210	10204	10336	10447	10774	10947		
SRev ST-Coal		221	173	208	229	249	284	363	361	360	418	416	425	422	424	423	612	671	742	744	696	510			
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		
SRev CCGT-Gas		354	400	472	778	464	571	714	698	864	1011	1031	1053	926	965	1023	1063	1171	1090	943	953	887			
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		
SRev Co-Gen		36	34	34	35	35	35	35	34	35	36	35	35	35	35	35	35	35	35	36	34	35			
Syncon		500	626	951	951	951	1253	1253	1253	1253	1102	1253	1253	1253	1102	1253	1253	1253	1253	1253	1102	1102			
Hydro		715	652	395	400	395	145	137	139	137	273	138	133	137	264	134	138	139	270	140	179	153			
S.Reserve Total		1826	1885	2060	2393	2094	2288	2502	2486	2648	2839	2874	2899	2773	2790	2868	3101	3269	3239	3116	3115	2838			

Daily MWH Generation on Friday

Station	Unit	Fuel Type	Calculated MWH
JMIG	U001	ST-Coal	16,161
JMIG	U002	ST-Coal	16,168
JMIG	U003	ST-Coal	16,083
JMIG	U004	ST-Coal	18,099
JMIG	U005	ST-Coal	17,816
			84,327
PKLG	U003	ST-Coal	5,967
PKLG	U004	ST-Coal	5,907
PKLG	U005	ST-Coal	7,905
PKLG	U006	ST-Coal	11,271
			31,050
TBIN	U001	ST-Coal	16,391
TBIN	U002	ST-Coal	16,454
TBIN	U003	ST-Coal	16,436
TBIN	U004	ST-Coal	17,936
			67,217
Subtotal			182,594
CBPS	BLK2	CCGT-Gas	8,578
			8,578
GLGR	GT01	CCGT-Gas	1,633
GLGR	GT02	CCGT-Gas	1,628
GLGR	ST1C	CCGT-Gas	1,715
			4,976
NPRI	BLK1	CCGT-Gas	11,380
NPRI	BLK2	CCGT-Gas	11,389
			22,769
PGLA	GT11	CCGT-Gas	328
PGLA	GT12	CCGT-Gas	3,957
PGLA	ST10	CCGT-Gas	2,446
			6,731
PLPS	GT12	CCGT-Gas	61
PLPS	GT13	CCGT-Gas	2,954
PLPS	ST18	CCGT-Gas	1,466
			4,481
TJGS	GT1A	CCGT-Gas	4,345
TJGS	GT1B	CCGT-Gas	4,175
TJGS	ST1C	CCGT-Gas	5,151
TJGS	GT2A	CCGT-Gas	3,534
TJGS	GT2B	CCGT-Gas	3,452
TJGS	ST2C	CCGT-Gas	5,206
			25,863
Subtotal			73,398
BSIA	HY01	Hydro	78
BSIA	HY02	Hydro	290
BSIA	HY03	Hydro	87
			455
CEND	HY01	Hydro	189

Daily MWH Generation on Friday

Station	Unit	Fuel Type	Calculated MWH
CEND	HY02	Hydro	179
CEND	HY03	Hydro	185
CEND	HY04	Hydro	173
			726
HTRG	HY01	Hydro	93
			93
KNRG	HY01	Hydro	363
KNRG	HY02	Hydro	673
KNRG	HY03	Hydro	602
			1,638
KNYR	HY01	Hydro	2,146
KNYR	HY02	Hydro	2,372
KNYR	HY03	Hydro	2,395
KNYR	HY04	Hydro	2,325
			9,238
LPIA	HY01	Hydro	334
LPIA	HY02	Hydro	264
			598
MNOR	HY01	Hydro	104
			104
PGAU	HY01	Hydro	280
PGAU	HY02	Hydro	142
PGAU	HY03	Hydro	226
PGAU	HY04	Hydro	116
			764
SIHY	HY01	Hydro	597
SIHY	HY02	Hydro	193
SIHY	HY03	Hydro	186
			976
SYPS	HY01	Hydro	298
SYPS	HY02	Hydro	299
SYPS	HY03	Hydro	96
SYPS	HY04	Hydro	95
			788
TMGR	HY01	Hydro	256
TMGR	HY02	Hydro	312
TMGR	HY03	Hydro	412
TMGR	HY04	Hydro	779
			1,759
UJLI	HY01	Hydro	419
UJLI	HY02	Hydro	283
			702
UPIA	HY01	Hydro	110
UPIA	HY02	Hydro	115
			225
Subtotal			18,066
PCUF	CUJFK	Co-Gen	130
Subtotal			130

Daily MWH Generation on Friday

Station	Unit	Fuel Type	Calculated MWH
TIEL	PLTG	PLTG	-122
TIEL	HVDC	HVDC	728
Subtotal			606
Calculated Net Energy			276,809