

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,297 MW
Distillate	0 MW
Total TNB	5,099 MW
Total IPP	16,158 MW
Total Co-Gen	0 MW
Total System	21,829 MW

Generation Mix

Type	MWh	Percentage
Gas	38,585	11.25 %
Hydro	10,554	3.08 %
Total TNB	49,139	14.32 %
ST-Coal	212,898	62.06 %
Gas	80,871	23.57 %
Total IPP	293,769	85.63 %
Co-Gen	1,536	0.45 %
Total Co-Gen	1,536	0.45 %
Total Generation	344,444	100.40 %
PLTG	642	0.19 %
HVDC	729	0.21 %
Interconnection	1,371	0.40 %
Net Energy	343,073	100.00 %

Maximum Demand Record

Date: 4/12/2018	17,997 MW
Date: 4/12/2018	380,797 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:00:00 Hour
Total Set On Bus	17,362 MW
TNB Generation	3,121 MW
IPP Generation	12,987 MW
Spinning Reserve	1,195 MW
Maximum Demand	16,137 MW
Net Energy	343,073 MWH
Load Factor	88.58 %

Fuel Cost

Total Cost:	57,991,913.86 RM
Cost per Unit	17.37 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	324
Hydro	503
Syncon	698
Thermal	98
Total	1,623

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	52
SRDG	4
TJGS	216
Total TNB	273
CBPS	55
KLPP	69
NPRI	84
PGLA	106
PLPS	93
PTEK	5
SGRI	53
YPKA	48
Total IPP	514
Total Gas	787
Total Gas Required	787

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	14843	14096	13624	13114	12961	12773	12713	12451	12235	13061	13935	14473	14644	14542	14826	15229	15332	15183	14754	14765	16137	16026	15654	15442

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																										
JMAH	U001	694	693	698	693	694	692	691	693	691	691	692	692	692	692	692	691	695	695	691	692	692	692	694	690	698	692	694																							
JMAH	U002	694	696	696	695	695	694	693	695	695	700	695	694	693	693	692	693	694	694	694	694	694	691	695	693	694	695	692	691	693	688	694	694	697	693	700	693	693	694												
JMJG	U001	674	677	677	678	676	678	679	671	673	678	681	677	676	677	669	679	673	674	671	670	673	677	675	676	679	673	677	676	677	673	668	674	646	643	646	653	651	649	641	645	646	645	645	646	642	647	649	646		
JMJG	U002	671	671	673	673	671	671	669	671	674	671	673	672	650	631	650	642	641	644	641	645	649	640	643	640	646	642	643	639	641	636	647	638	617	618	615	621	620	615	616	617	618	619	618	615	607	609	615	618		
JMJG	U004	951	904	906	857	852	853	850	804	806	804	806	804	786	783	781	782	785	783	785	790	847	901	910	933	932	932	933	931	933	952	960	960	960	961	960	961	923	920	955	979	978	979	977	980	979	979	980	970		
JMJG	U005	951	904	899	844	850	848	848	796	800	800	801	797	778	778	779	780	777	782	779	806	854	907	913	932	931	933	930	933	931	957	955	958	963	963	960	959	912	918	952	980	983	980	975	980	979	982	983	963		
PKLG	U003	282	282	283	284	288	290	280	283	285	282	283	282	283	284	284	179	154	189	289	284	284	282	283	283	283	283	282	283	281	281	283	284	284	283	286	283	286	287	282	282	280	279	281	280	281	281	285	283		
PKLG	U004	279	279	281	282	282	280	281	281	280	280	281	240	149	148	147	147	192	380	281	282	281	280	281	279	278	279	275	277	277	277	279	280	281	281	281	281	281	282	278	278	276	277	276	277	277	277	278			
PKLG	U005	469	469	468	468	468	467	469	420	328	285	267	269	270	270	268	269	275	302	389	466	468	470	470	470	470	470	469	469	469	469	469	469	470	469	469	469	469	469	469	469	469	469	469	469	469	469	469	472		
PKLG	U006	470	470	470	470	470	469	468	471	470	469	469	470	470	473	472	470	468	468	465	470	472	470	470	469	468	470	470	468	470	470	470	469	468	468	468	468	469	470	470	470	471	475	475	468	470	470	470	471	470	
TBIN	U001	690	689	690	688	689	689	688	689	689	689	687	691	688	689	689	690	692	687	688	686	689	689	689	689	687	689	689	689	689	687	689	685	688	688	688	688	687	688	686	686	685	686	689	689	689	689	687	690	689	687
TBIN	U002	691	693	696	694	693	691	692	694	692	690	693	691	691	694	692	693	695	693	684	693	694	691	694	695	692	691	693	692	691	693	693	693	691	689	693	692	692	689	691	692	691	693	694	690	692	693	689	690		
TBIN	U003	693	694	695	692	691	692	691	690	692	691	691	691	694	691	691	690	690	692	694	692	692	692	690	691	693	693	692	693	690	689	691	689	692	691	691	688	692	691	689	692	691	689	692	691	694	691	690	691	690	
TBIN	U004	953	902	899	858	856	857	851	806	803	801	803	801	803	804	802	803	803	802	800	818	851	904	911	932	931	931	934	932	933	957	961	962	961	962	960	963	923	921	957	822	633	717	800	853	902	941	984	969		
Total ST-Coal		9162	9023	9031	8876	8875	8871	8850	8664	8579	8531	8521	8512	8415	8307	8311	8210	8187	8294	8547	8687	8840	8989	9016	9075	9077	9071	9077	9066	9068	9132	9149	9139	9106	9099	9107	9115	8991	8973	9077	8992	8812	8900	8973	9035	9065	9117	9168	9124		
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	352	352	360	356	356	361	354	362	363	357	366	359	361	362	361	361	361	361	361	361	361	368	368	361	361	359	359	360	362	359	359	361	354	365	362	362	362	354	369	368	369	365	364	367	367	364	358			
GLGR	GT01	104	68	69	68	68	69	67	68	68	68	69	68	70	67	68	68	69	68	68	69	68	104	104	103	103	103	103	79	82	105	105	105	105	105	105	105	106	105	106	106	106	107	107	107	107	107	108	108		
GLGR	GT02	104	67	68	68	68	68	68	69	68	68	68	68	68	68	68	69	69	68	69	68	105	104	104	104	104	104	80	82	110	109	109	108	108	108	107	108	109	108	108	108	109	108	108	108	108	108	108	108	108	
GLGR	ST1C	92	74	71	71	70	71	71	71	71	71	71	70	70	70	70	70	71	70	91	93	93	93	93	93	81	80	95	97	96	97	97	97	97	97	97	97	97	97	97	97	97	97	97	98	98	97				
KLPP	GT14	126	125	124	127	124	126	76	76	78	78	81	75	80	81	76	77	81	75	76	110	152	152	154	154	154	153	153	154	154	154	153	154	112	122	144	136	151	147	148	150	140	138	152	130	135					
KLPP	GT15	117	112	115	115	115	113	69	68	68	69	71	68	69	70	69	69	70	69	69	110	142	142	142	143	143	143	143	143	143	142	141	138	141	110	110	134	125	139	137	136	137	131	129	140	120	125				
KLPP	ST17	121	121	123	117	120	120	91	87	87	83	83	83	87	87	87	87	84	84	85	115	132	132	135	135	134	136	139	139	135	135	132	133	133	133	115	120	127	128	131	131	127	130	127	127	131	126	129			
NPRI	BLK1	394	407	181	145	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
NPRI	BLK2	524	526	527	526	526	532	524	525	526	527	525	524	525	523	523	523	530	522	526	524	526	527	524	525	523	520	521	516	519	516	514	515	516	519	516	519	517	515	523	521	523	526	525	527	528	527	529	532		
PCGP	PGRG	402	401	402	403	432	402	402	265	264	262	261	262	261	263	397	396	383	566	573	577	580	583	577	581	583	566	562	560	653	552	509	568	601	532	510	618	622	312	263	262	402	403	400	402	403	401	402	401		
PGLA	GT11	182	165	166	189	196	167	167	181	170	168	182	169	189	184	168	166	170	168	163	199	214	198	215	218	176	191	219	212	216	190	219	219	187	190	201	200	211	216	194	222	202	205	209	217	204	202	216	197	196	
PGLA	GT12	184	169	171	194	201	173	169	185	174	173	186	174	194	190	172	170	174	171	168	202	216	202	219	221	181	195	182	216	220	194	222	223	191	193	205	203	215	220	197	226	217	213	221	207	206	220	202	200		
PGLA	ST10	217	203	205	225	227	204	205	218	206	206	206	205	217	209	205	207	207	211	209	230	236	224	241	235	214	222	218	240	241	234	234	236	225	222	233	240	235	246	236	245	238	240	235	235	235	240	227	234		
PLPS	GT11	131	132	132	132	132	136	111	73	115	66	69	66	66	65	64	63	64	61	116	142	143	144	147	146	140	141	142	133	134	143	142	143	142	138	143	143	143	144	140	144	144	144	143	147						

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																											
Total CCGT-Gas		5359	5193	4822	4664	4595	4405	4180	4022	4102	4004	4036	3902	4045	4057	3965	3661	3805	4187	4328	4670	4854	4981	5079	5136	5061	5197	5239	5329	5444	5318	5393	5477	5457	5545	5544	5573	5528	5269	5247	5619	5668	5711	5715	5599	5604	5686	5566	5573			
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	80	70	65	20	0	0	0		
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 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	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	0	0	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	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	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	0	0	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	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
CEND	HY02	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
CEND	HY03	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
CEND	HY04	7	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HTRG	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
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	-1	-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	0	0	0	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	27	27	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	27	28	28	27	28	28	28	27	28	28	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
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	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY02	58	56	55	99	57	58	58	100	98	57	59	57	60	59	58	57	59	57	56	56	56	56	59	59	58	57	57	59	60	95	100	102	98	96	99	59	59	103	97	101	99	100	99	99	99	99	99	99	99	99	
KNYR	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	0	0	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	HY04	58	56	32	-1	-1	-1	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	57	60	60	58	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
LPIA	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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
PGAU	HY01	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	21	21	21	20	22	22	21	21	21	21	21	21	21	18	22	23	24	0	18	28	23	23	22	22	22	22	22	22	22	22	
PGAU	HY02	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	22	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	23	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
SIHY	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	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	0	0	0	0	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	35	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	33	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY02	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	36	36	35	34	-1	-1																								

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																										
TIE-HVDC		31	31	31	30	31	31	30	30	30	31	31	29	29	30	30	31	31	30	30	31	31	30	30	31	31	30	29	30	32	30	32	29	29	31	31	29	29	30	30											
TIE-PLTG		58	5	-17	27	51	28	123	8	17	6	-7	27	-40	43	39	36	-24	68	25	15	11	39	28	54	-6	10	20	10	-65	6	24	61	-11	81	36	9	62	20	122	16	1	11	28	41	39	47	45	57		
Interconnection		89	36	13	56	82	59	154	38	47	37	24	57	-11	72	69	66	7	99	56	46	41	69	59	85	26	42	50	41	-34	37	54	91	19	112	65	38	92	52	152	48	30	40	60	73	68	76	75	87		
System Total		14843	14474	14096	13791	13624	13457	13114	13041	12961	12738	12773	12596	12713	12534	12451	12053	12235	12626	13061	13578	13935	14327	14473	14664	14644	14638	14542	14632	14826	15082	15229	15347	15332	15369	15183	14982	14754	14690	14765	15859	16137	15991	16026	15794	15654	15603	15442	15193		
SRev ST-Coal		225	54	46	201	202	206	227	263	256	112	103	114	199	216	128	153	158	158	120	200	137	138	111	52	50	146	140	151	149	85	128	138	101	108	100	92	216	54	70	225	115	27	44	12	62	15	109	153		
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	6	15	60	149	130	129	0	0	0	
SRev CCGT-Gas		631	797	1168	914	488	637	862	1020	940	1038	1006	1140	997	985	1077	1381	1237	1023	882	545	361	243	145	151	356	269	395	295	260	306	186	137	392	371	196	270	359	618	431	135	221	178	174	290	285	203	323	316		
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 Co-Gen		-13	-12	-23	-22	-40	-41	-41	-45	-42	-43	-41	-42	-42	-42	-43	-48	-48	-46	-45	-44	-39	-34	-37	-38	-36	-33	-32	-31	-33	-32	-34	-30	-31	-31	-32	-34	-32	-32	-30	-29	-30	-28	-31	-30	-31	-36	-37	-36		
Syncon		626	1099	1250	1351	1351	1351	1250	1351	1351	1351	1351	1351	1351	1351	1351	1351	1351	1351	1200	1049	626	626	626	626	963	1049	1049	1049	777	777	626	626	439	626	812	812	711	711	313	313	626	439	439	439	626	626	524			
Hydro		660	303	201	41	130	127	129	79	41	129	127	129	126	126	125	126	124	128	129	254	385	659	651	651	655	435	384	381	381	413	418	484	519	573	552	483	486	264	494	541	561	483	530	594	653	559	503	543		
S.Reserve Total		2129	2241	2642	2485	2131	2305	2553	2567	2546	2587	2546	2692	2631	2636	2638	2963	2822	2614	2437	2155	1893	1632	1496	1442	1651	1780	1936	1845	1806	1549	1475	1355	1607	1460	1467	1623	1841	1615	1676	1191	1195	1346	1305	1435	1537	1367	1524	1500		