

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,816 MW
Hydro	2,375 MW
Distillate	0 MW
Total TNB	5,191 MW
Total IPP	15,528 MW
Total Co-Gen	57 MW
Total System	21,340 MW

Generation Mix

Type	MWh	Percentage
Gas	32,749	9.38 %
Hydro	32,160	9.21 %
Total TNB	64,909	18.59 %
ST-Coal	200,044	57.29 %
Gas	83,324	23.86 %
Distillate	818	0.23 %
Total IPP	284,186	81.39 %
Co-Gen	977	0.28 %
Total Co-Gen	977	0.28 %
Total Generation	350,072	100.26 %
PLTG	197	0.06 %
HVDC	726	0.21 %
Interconnection	923	0.26 %
Net Energy	349,149	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:00:00 Hour
Total Set On Bus	18,049 MW
TNB Generation	3,609 MW
IPP Generation	13,058 MW
Spinning Reserve	1,335 MW
Maximum Demand	16,662 MW
Net Energy	349,149 MWH
Load Factor	87.31 %

Fuel Cost

Total Cost:	56,585,839.08 RM
Cost per Unit	17.81 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	851
Hydro	415
Syncon	161
Thermal	155
Total	1,582

Time Weather Temperature

Afternoon	Rainy	33
Morning	Cloudy	24

Gas Usage

Station	(mmscfd)
GLGR	50
PGPS	13
SRDG	6
TJGS	176
Total TNB	245
CBPS	55
KLPP	91
NPRI	71
PDPS	4
PLPS	76
PTEK	6
SGB3	80
SGRI	66
SKSP	35
YPKA	88
Total IPP	573
Total Gas	817
Total Gas Required	824

Alternate Fuel Usage

Station	(mmscfd)
PLPS	7
Total	7

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	13753	13089	12572	12204	12063	11909	12215	12338	12937	14580	15660	16272	16214	15811	16403	16662	16524	16065	15233	15632	15641	15465	14917	14339

Daily MW Generation on Thursday

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	693	691	696	692	688	691	689	691	694	693	695	694	693	693	691	695	692	693	692	694	700	690	692	693	693	694	693	691	694	692	692	695	692	691																			
JMAH	U002	693	693	696	696	694	697	692	693	695	693	695	694	696	695	694	691	695	693	690	695	694	696	692	693	694	694	694	694	695	694	694	692	693	694	127	200	206	210	344	357	352	548	608											
JMJG	U002	673	679	695	675	660	683	693	678	665	670	687	674	678	690	673	682	683	679	668	678	667	678	657	690	678	688	677	673	680	679	675	673	678	677	673	667	679	674	678	682	672	682	678	677	673	675	673	677						
JMJG	U003	667	666	682	678	660	670	681	669	665	664	670	671	668	690	653	668	679	668	655	671	677	671	654	672	673	685	671	664	672	668	668	660	659	668	666	659	669	668	673	685	665	666	671	672	663	667	664	666						
JMJG	U004	982	976	889	879	881	881	808	803	805	804	803	804	804	804	804	850	918	982	979	978	979	980	981	979	981	981	981	983	979	981	981	983	982	982	983	981	982	983	981	982	983	981	980	981	985	978	982	985	981	981	954	940	905	900
JMJG	U005	983	972	877	885	881	884	798	799	799	797	801	800	800	804	801	803	801	854	930	979	978	982	675	696	694	711	852	986	981	985	981	980	983	983	983	981	980	981	985	978	982	985	981	981	981	954	940	905	900					
PKLG	U005	469	468	470	469	469	469	468	469	468	467	467	466	466	468	469	468	469	468	469	470	469	468	464	469	469	470	470	469	468	469	466	466	466	466	470	471	471	471	468	468	469	470	472	469	474	467	451	473	470					
PKLG	U006	467	470	469	470	468	466	470	472	468	471	472	469	470	470	470	472	469	469	469	472	443	352	331	331	331	330	330	331	331	331	329	330	333	331	329	331	331	331	331	331	331	331	330	330	331	329	331	330	333	329				
TBIN	U001	687	688	689	690	686	689	687	688	690	687	688	689	688	686	689	689	688	688	690	688	689	689	687	690	689	685	689	687	689	688	690	689	691	690	687	689	688	689	688	689	687	692	687	686	688	689	689	690	690	687				
TBIN	U002	687	693	688	687	695	692	692	692	688	691	695	686	690	691	690	686	690	693	692	687	689	689	689	692	691	687	687	690	692	687	686	687	692	687	689	686	689	692	687	691	685	691	684	688	692	687	692	690	688					
TBIN	U003	692	690	691	691	691	692	690	689	688	691	690	687	689	690	691	690	690	689	691	690	690	689	691	690	690	689	687	689	690	690	687	690	690	688	684	690	694	691	690	688	688	689	690	691	690	689	689	688						
TBIN	U004	981	968	882	883	883	882	802	802	802	802	802	804	802	802	803	803	803	851	939	986	982	983	984	983	982	982	982	982	982	981	981	982	982	982	981	980	983	983	983	982	981	982	982	981	955	937	902	900						
Total ST-Coal		8674	8658	8419	8399	8360	8397	8169	8145	8122	8128	8164	8137	8144	8183	8132	8153	8161	8294	8500	8689	8644	8569	8197	8282	8262	8291	8414	8538	8554	8547	8530	8524	8541	8550	8543	8514	8547	8547	8552	8004	8035	8060	8060	8198	8128	8059	8166	8211						
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	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	0	0		
CBPS	BLK2	365	356	372	373	359	359	369	360	367	363	363	365	361	366	360	362	359	361	356	362	364	365	361	360	361	358	360	361	361	363	363	354	350	349	341	336	344	356	353	372	345	349	346	350	350	352	351	347						
GLGR	GT01	70	70	69	70	69	68	68	69	71	69	69	68	68	68	70	71	104	82	67	69	80	106	106	106	106	105	105	105	104	105	104	87	84	83	69	68	69	70	69	69	68	70	70	70	68	68	68							
GLGR	GT02	69	69	69	69	68	69	69	69	69	69	69	68	68	69	69	72	105	82	69	69	82	109	107	107	107	107	106	107	107	107	106	86	85	84	69	69	69	68	68	69	69	68	68	70	68	68	68							
GLGR	ST1C	72	72	71	71	72	72	71	71	71	71	72	72	71	71	71	74	89	85	74	72	75	92	97	97	98	98	98	97	97	96	89	83	83	74	72	73	73	72	71	72	71	72	72	72	72	72	72							
KLPP	GT13	111	69	74	75	68	68	73	69	72	73	69	68	113	111	109	112	144	143	103	108	124	130	144	144	143	145	128	143	142	143	144	145	123	123	118	115	117	110	112	116	108	107	108	107	107	107	107	107						
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	141	111	112	135	142	146	142	143	143	134	141	148	144	145	139	132	131	131	127	132	116	116	122	112	114	111	112	113	111	110	116							
KLPP	ST15	79	74	82	84	80	76	81	76	82	79	75	79	120	120	112	116	143	143	112	117	133	132	145	145	144	144	133	144	144	144	145	146	140	142	143	141	143	117	117	125	110	117	115	116	118	118	113	113						
KLPP	BLK1	106	93	92	90	86	86	90	90	86	88	88	122	120	117	120	132	190	178	178	186	194	199	202	202	202	192	198	202	202	204	199	190	191	191	198	198	178	178	182	178	179	179	178	179	179	162								
NPRI	BLK1	452	335	531	440	406	329	493	496	499	390	386	524	359	508	350	475	468	332	429	391	524	523	460	449	380	481	460	514	452	475	505	503	498	500	488	481	493	430	504	527	322	396	398	341	386	490	329	455						
PCGP	PGRG	396	395	412	420	399	397	405	396	402	405	396	398	402	368	337	340	336	337	331	338	340	339	336	333	336	337	330	335	337	337	337	357	352	383	378	381	392	398	399	417	391	398	395	397	398	396	400	391						
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT11	64	62	69	71	65	65	68	64	68	67	65	64	69	65	65	65	112	111	108	111	111	111	112	111	111	111	111	111	116	116	116	116	115	112	111	70	67	70	70	112	110	115	115	115	116	116	115	111						
PLPS	GT12	66	64	69	69	64	65	66	63	66	67	64	63	67	63	64	65	120	119	116	115	115	123	122	128	129	129	129	119	120	118	119	119	120	117	60	57	60	64	64	124	115	119	124	125	124	125	123	124						
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST18	93	87	96	93	90	91	94																																															

Daily MW Generation on Thursday

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																											
LIPIA	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7																											
Total Hydro		1276	1195	1006	978	992	959	783	756	691	670	668	695	651	869	982	730	667	895	1295	1312	1480	1786	2126	1871	1801	1660	1521	1568	1799	1842	1902	1887	1902	1749	1627	1514	1587	1531	1530	1903	1842	1908	1792	1716	1258	1106	980	971			
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 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	0	0	0	0	0	0	0	0	
PCUF	CUFG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	8	30	29	30	29	30	28	30	27	31	30	30	31	31	30	29	29	30	30	29	30	31	30	28	30	30	30	29	31	29	30	29	29	31	30	30	30	30	29	30	30	30	29	30	30	31	31	30	29	29	
Total Co-Gen		8	30	29	30	29	30	28	30	27	31	30	30	31	31	30	29	29	30	30	29	30	31	30	28	30	30	30	29	31	29	30	29	29	31	30	30	30	30	29	30	30	30	29	30	30	31	31	30	29	29	
Total Gen		13719	13413	13098	12812	12631	12402	12213	12113	12072	11940	11937	12066	12214	12587	13423	12341	12983	13946	14709	15224	15653	16002	16357	16484	16300	16044	15939	16209	16450	16637	16714	16685	16557	16461	16150	15711	15305	15196	15622	15807	15686	15747	15586	15420	14915	14771	14342	13996			
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	0	0	0	0	0	
TIE-HVDC		30	30	30	30	30	30	30	30	30	30	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	30	31	31	31	31	30	30	30	31	31	30	30	30	30	30	30	30	31	31	30	30	
TIE-PLTG		-64	-16	-21	-41	29	11	-21	22	-21	-36	-2	37	-32	35	35	15	16	-3	99	4	-37	42	54	51	56	-6	99	63	16	6	22	51	2	-18	-55	57	42	-40	-40	-64	15	-25	12	-13	-31	-12	-28	4			
Interconnection		-34	15	9	-11	59	41	9	52	9	-6	28	67	-1	66	85	46	46	27	129	34	-7	72	85	81	86	23	128	93	47	37	52	82	33	12	85	87	72	-10	-10	-34	45	4	41	16	-2	19	3	34			
System Total		13753	13398	13089	12823	12572	12361	12204	12061	12063	11946	11909	12019	12215	12521	12338	12295	12937	13919	14580	15190	15660	15930	16272	16403	16214	16021	15811	16116	16403	16600	16662	16603	16524	16449	16065	15624	15233	15206	15632	15841	15641	15743	15465	15404	14917	14752	14339	13962			
SRev ST-Coal		140	156	334	349	390	354	344	364	389	379	349	374	371	333	381	362	351	366	314	125	170	133	185	100	120	91	118	144	128	135	152	158	141	132	139	168	135	135	130	127	147	198	202	198	281	345	430	445			
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	0	0
SRev CCGT-Gas		1432	1333	1014	1253	1408	1642	1425	1476	1426	1547	1583	1434	1270	1154	1379	1229	1155	1327	1195	885	580	606	302	434	440	510	602	508	539	536	550	554	716	668	847	1081	1494	1546	1126	790	1154	1094	1195	1347	1107	813	1228	1027			
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	0
SRev 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	0	0	0	0	0	0	0	0	0
SRev Co-Gen		22	0	1	0	1	0	2	0	3	-1	0	0	-1	-1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syncon		374	374	374	374	374	374	676	676	802	802	802	802	802	802	802	802	802	802	500	500	187	187	0	187	187	187	187	187	187	187	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hydro		475	456	645	673	659	692	566	593	398	419	421	394	438	220	192	444	507	317	330	313	458	377	249	317	387	278	417	370	576	533	473	488	473	501	436	362	289	345	346	347	408	342	270	346	617	619	645	654			
S Reserve Total		2443	2309	2368	2649	2832	3062	3013	3109	3018	3146	3155	3004	2880	2508	2754	2838	2816	2812	2339	1824	1395	1302	736	1035	1219	1225	1507	1387	1519	1332	1335	1364	1492	1473	1784	2114	2289	2398	1972	1260	1786	1729	1976	2196	2498	2273	2800	2624			