

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,744 MW
Hydro	2,427 MW
Distillate	0 MW
Total TNB	5,171 MW
Total IPP	15,647 MW
Total Co-Gen	56 MW
Total System	21,160 MW

Generation Mix

Type	MWh	Percentage
Gas	42,445	11.71 %
Hydro	11,305	3.12 %
Total TNB	53,750	14.83 %
ST-Coal	193,913	53.51 %
Gas	113,558	31.33 %
Total IPP	307,471	84.84 %
Co-Gen	1,261	0.35 %
Total Co-Gen	1,261	0.35 %
Total Generation	362,482	100.02 %
PLTG	-548	-0.15 %
HVDC	622	0.17 %
Interconnection	74	0.02 %
Net Energy	362,408	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:	16:30:00 Hour
Total Set On Bus	19,024 MW
TNB Generation	3,123 MW
IPP Generation	14,163 MW
Spinning Reserve	1,683 MW
Maximum Demand	17,356 MW
Net Energy	362,408 MWH
Load Factor	87.00 %

Fuel Cost

Total Cost:	66,510,695.38 RM
Cost per Unit	18.94 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	428
Hydro	518
Syncon	696
Thermal	120
Total	1,762

Time	Weather	Temperature
Afternoon	Rainy	29
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
PAKA	3
PGPS	37
SRDG	4
TJGS	211
Total TNB	307
CBPS	53
KLPP	94
MPSS	41
NPRI	159
PGLA	109
PTEK	8
SGB3	33
SGRI	150
SKSP	49
YPKA	82
Total IPP	778
Total Gas	1,085
Total Gas Required	1,085

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	14237	13572	13183	12719	12554	12414	12739	12715	13143	14879	15883	16532	16436	16164	16871	17114	17289	16975	15804	15677	16698	16534	16009	15603



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	U002	695	692	694	693	695	692	692	694	695	693	692	685	694	694	696	695	691	693	695	694	694	692	695	692	694	696	694	694	
JMJG	U001	674	677	678	662	668	671	671	669	672	668	670	671	672	668	672	669	673	669	671	670	671	671	672	671	673	671	672	673	671
JMUG	U002	672	671	671	672	671	675	671	672	672	671	672	673	672	629	634	640	634	638	637	637	636	637	634	636	634	641	634	635	645
JMJG	U003	666	667	666	667	671	670	667	671	670	668	660	672	666	666	662	672	663	667	670	667	669	666	668	667	665	666	664	657	670
JMJG	U004	0	280	293	376	482	570	621	0	0	0	0	0	0	240	317	345	366	379	375	374	376	387	386	395	460	524	523	557	
JMJG	U005	936	903	900	843	848	797	801	798	797	801	799	799	801	800	799	800	800	877	900	900	985	981	982	982	980	980	974	982	
PKLG	U003	284	284	285	280	286	253	208	274	279	279	281	283	282	282	283	282	280	281	280	280	279	281	280	284	284	282	282	282	
PKLG	U004	283	283	281	280	281	278	278	280	279	278	280	280	280	279	279	279	281	279	282	280	282	278	282	279	281	280	283	280	
PKLG	U006	471	470	469	469	469	472	469	470	471	469	470	469	472	469	469	470	469	472	470	472	472	470	470	470	469	473	473	470	
TBIN	U001	689	686	689	689	690	690	687	689	687	689	690	689	688	689	689	689	688	689	689	688	687	689	689	689	688	687	690	687	
TBIN	U002	691	690	691	690	687	693	691	689	687	693	691	690	690	691	691	690	690	689	686	687	692	692	685	690	689	691	692	688	
TBIN	U003	691	689	691	692	679	690	689	690	692	689	689	702	690	686	690	692	691	685	686	695	694	691	692	687	696	693	688	690	
TBIN	U004	943	903	903	855	852	801	799	802	802	802	803	803	801	801	867	903	904	977	983	983	983	983	981	983	981	981	980	982	
Total ST-Coal		7695	7895	7911	7868	7979	7952	7944	7397	7402	7402	7396	7417	7405	7360	7606	7694	7714	7871	7943	7947	8112	8104	8128	8114	8113	8186	8241	8259	
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	
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	
CBPS	BLK2	349	358	359	361	361	258	201	296	302	305	210	215	271	363	346	352	252	378	365	363	373	363	373	363	350	365	362		
GLGR	GT01	67	68	67	66	67	65	67	67	68	66	68	68	68	68	68	68	68	68	68	68	68	68	83	99	100	100	100		
GLGR	GT02	68	69	68	67	68	67	68	68	68	68	67	68	68	68	68	68	68	68	68	68	68	68	83	99	100	100	100		
GLGR	ST1C	71	71	72	71	72	72	71	71	71	71	72	72	72	71	71	71	72	71	72	71	72	71	72	71	91	91	91		
KLPP	GT13	123	109	65	69	70	66	66	66	69	67	70	69	72	65	74	73	116	114	145	145	146	146	147	146	145	146	145		
KLPP	GT14	131	111	79	78	77	77	78	78	77	77	79	81	81	72	82	82	117	114	153	156	157	156	158	155	155	156	156		
KLPP	GT15	127	24	0	0	0	0	0	0	0	0	0	0	0	0	0	35	96	148	148	152	152	152	152	151	151	151			
KLPP	ST17	187	155	88	85	84	84	84	85	85	83	83	85	85	89	73	89	89	117	173	201	201	204	204	202	202	203			
MPSS	GT01	87	91	89	88	88	88	88	87	88	89	89	89	91	91	88	90	91	91	88	89	92	89	101	106	105	104	104		
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	67	106	107		
MPSS	ST01	36	38	37	37	37	37	37	37	37	37	37	38	38	39	36	37	37	38	39	37	41	39	41	50	50	50			
NPRI	BLK1	509	509	509	508	509	507	508	510	509	508	509	509	509	512	509	508	511	536	536	535	528	539	533	536	534	536	531		
NPRI	BLK2	511	511	511	511	446	400	497	496	497	496	496	497	511	511	447	496	546	545	544	539	544	545	540	538	539	537	533		
PAKA	GT1A	84	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PAKA	GT4B	69	70	71	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PAKA	ST4C	77	76	34	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCGP	PGRG	393	395	261	264	265	260	256	259	262	264	265	265	267	263	243	269	272	344	332	326	329	329	327	329	329	307	311		
PGLA	GT11	183	187	170	168	168	165	164	171	170	167	168	169	176	176	159	173	208	224	217	232	230	229	227	227	221	225	225		
PGLA	GT12	188	191	175	172	172	169	168	172	174	170	172	172	180	180	162	176	213	228	220	233	231	231	230	228	221	228	224		
PGLA	ST10	218	212	205	205	205	207	203	213	207	205	205	205	217	215	203	206	220	236	241	253	253	253	253	247	252	254	251		
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		
PGPS	GT3B	70	71	70	70	71	70	70	71	70	71	70	71	70	72	70	69	70	71	72	71	70	72	70	96	95	94	94		
PGPS	ST3C	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	30	46	91	92	93	92	93	93	93	93	93		
SGB3	GT31	111	110	110	110	110	110	106	106	109	108	111	110	110	103	110	113	116	111	111	117	111	114	107	107	111	108	115		
SGB3	ST34	59	59	59	58	58	58	58	58	58	58	58	58	58	58	58	58	61	61	58	62	59	62	62	58	56	56	60		
SGRI	GT11	64	66	64	65	65	65	65	65	65	65	65	66	66	65	65	65	65	65	65	65	65	66	65	65	66	65	65	66	
SGRI	GT12	69	70	70	72	72	68	68	70	71	72	71	72	71	72	69	70	70	118	118	114	121	146	142	144	144	137	127		
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	139	136	135	135	137	136	130	125		
SGRI	ST14	102	98	100	98	100	100	97	98	100	97	99	96	101	99	97	98	136	136	194	210	221	221	218	215	221	209	218		
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	134	134	134	135	131	128	123	132		
SGRI	GT22	106	67	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	141	141	141	134	131	129	142		

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																											
TMGR	HY03	0	0	0	30	30	30	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	35	79	58	33	32	5	-1	-1	-1																					
TMGR	HY04	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																					
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	102	102	101	106	102	96	104	104	-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	-1	-1	-1	-1	-1	-1	-1																					
Total Hydro		218	215	222	240	240	211	178	254	211	211	190	192	191	192	169	179	179	208	391	400	430	512	745	853	869	664	453	584	1084	945	831	898	940	1008	852	567	365	194	177	502	828	802	701	609	543	351	291	203			
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	CUPG	31	31	32	32	31	32	31	31	32	32	32	32	33	33	33	33	32	32	33	31	33	31	30	30	30	30	31	30	30	30	29	30	30	30	30	31	30	31	32	31	32	32	33	32	32	31	32				
PCUF	CUFK	27	27	27	28	3	4	4	5	6	6	14	27	26	27	26	27	27	27	26	27	28	26	27	27	26	24	25	26	25	26	24	27	24	25	25	26	27	26	27	6	6	6	6	6	6	23	27				
Total Co-Gen		58	58	59	60	34	36	35	36	38	38	46	59	58	60	60	60	60	58	59	61	57	60	58	56	54	55	57	55	56	54	56	54	55	55	56	58	56	58	58	58	38	38	39	38	38	54	59				
Total Gen		14242	13891	13558	13329	13166	12906	12750	12620	12558	12432	12396	12423	12710	12931	12764	12678	13095	14252	14884	15403	15828	16103	16508	16621	16572	16388	16153	16512	16868	17152	17154	17188	17295	17341	17071	16486	15850	15566	15681	16417	16648	16604	16534	16454	16009	15814	15603	15267			
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		
TIE-HVDC		30	31	31	30	30	30	31	31	31	31	30	30	29	29	31	31	30	30	31	31	30	30	31	31	31	31	30	30	30	30	31	31	31	31	30	30	30	30	30	31	0	0	0	0	0	0	0	0	0		
TIE-PLTG		-25	-97	-45	-26	-48	-33	1	-39	-27	10	-49	-36	-60	16	20	-48	-79	-106	-25	-76	-86	-75	-54	-30	106	-8	-42	-29	-33	47	10	-42	-24	-45	66	63	16	-3	-26	-53	-81	0	0	0	0	0	0	0	0		
Interconnection		5	-66	-14	4	-17	-3	31	-9	4	40	-18	-6	-29	45	49	-17	-48	-75	5	-44	-55	-45	-24	1	136	22	-11	2	-3	78	40	-11	6	-15	96	93	46	27	4	-24	-50	0	0	0	0	0	0	0	0		
System Total		14237	13957	13572	13325	13183	12909	12719	12629	12554	12392	12414	12429	12739	12886	12715	12695	13143	14337	14879	15447	15883	16148	16532	16620	16436	16366	16164	16510	16871	17074	17114	17199	17289	17356	16975	16393	15904	15539	15677	16441	16698	16604	16534	16454	16009	15814	15603	15267			
SRev ST-Coal		167	267	351	234	223	298	262	205	200	200	206	185	197	192	246	258	238	111	109	105	140	108	124	138	139	136	281	263	232	191	123	146	123	80	100	91	68	69	86	86	88	93	70	103	73	35	72	93			
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	63	11	10	8	10	8	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		1241	1594	1671	1657	1801	2007	2121	1781	1807	1933	1950	1959	1658	1395	1785	1969	1500	629	480	442	526	321	221	200	262	232	355	177	390	379	381	474	389	413	509	621	728	973	826	415	508	501	493	369	777	818	810	771			
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 Co-Gen		-2	-2	-3	-4	22	20	21	20	18	18	10	-3	-2	-4	-4	-4	-4	-4	-2	-3	-5	-1	-4	-2	0	2	1	-1	1	0	2	0	2	1	1	0	-2	0	-2	-2	-2	18	18	17	18	18	2	-3			
Syncon		1180	1180	1180	1180	1180	1265	1265	812	1114	1114	1265	1265	1265	1350	1350	1350	1199	947	796	796	796	626	626	626	626	626	626	626	711	711	626	711	711	796	626	626	626	862	1350	1350	1350	892	590	590	590	691	842	1012	1012	1199	
Hydro		192	195	188	200	200	146	149	526	267	267	137	135	136	135	157	147	147	269	377	519	489	632	617	509	493	473	599	643	450	431	545	493	621	553	709	533	161	132	149	357	483	509	610	451	366	288	223	144			
S Reserve Total		2778	3234	3387	3267	3426	3736	3818	3344	3406	3532	3568	3541	3254	2983	3534	3720	3231	2204	1911	1859	1946	1856	1584	1471	1520	1469	1947	1793	1699	1775	1773	1919	1769	1683	1953	2187	2305	2524	2409	1748	1667	1711	1781	1631	2076	2171	2119	2204			