

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,398 MW
Hydro	2,298 MW
Distillate	0 MW
Total TNB	5,696 MW
Total IPP	14,158 MW
Total Co-Gen	20 MW
Total System	19,874 MW

Generation Mix

Type	MWh	Percentage
Gas	59,480	18.28 %
Hydro	9,739	2.99 %
Total TNB	69,219	21.27 %
ST-Coal	163,227	50.15 %
ST-Gas	4,166	1.28 %
ST-Oil	1,710	0.53 %
Gas	86,024	26.43 %
Total IPP	255,127	78.39 %
Co-Gen	431	0.13 %
Total Co-Gen	431	0.13 %
Total Generation	324,777	99.79 %
PLTG	-108	-0.03 %
HVDC	-577	-0.18 %
Interconnection	-685	-0.21 %
Net Energy	325,462	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:	20:00:00 Hour
Total Set On Bus	16,887 MW
TNB Generation	3,168 MW
IPP Generation	11,727 MW
Spinning Reserve	1,975 MW
Maximum Demand	14,818 MW
Net Energy	325,462 MWH
Load Factor	91.52 %

Fuel Cost

Total Cost:	42,892,976.35 RM
Cost per Unit	13.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	622
Hydro	209
Syncon	1,006
Thermal	141
Total	1,978

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
GLGR	53
PAKA	139
PGPS	40
TJGS	214
Total TNB	445
CBPS	54
KLPP	5
MPSS	47
NPRI	147
PGLA	81
PLPS	79
SGB3	32
SGRI	152
SKSP	49
PKLG	41
Total IPP	686
Total Gas	1,131
Total Gas Required	1,148

Alternate Fuel Usage

Station	(mmscfd)
PKLG	17
Total	17

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	14280	13711	13268	12781	12442	12222	12186	11785	11567	12830	13677	14252	14237	13954	14272	14355	14358	14018	13502	13792	14818	14589	14263	14103

Daily MW Generation on Saturday

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	678	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	
JMAH	U002	695	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	686	
JMJG	U001	673	673	678	694	677	672	673	672	675	673	676	677	675	674	676	683	678	673	675	674	675	676	672	674	674
JMJG	U002	674	676	673	677	675	591	597	675	669	674	673	673	676	676	677	673	678	673	674	675	674	677	676	675	674
JMJG	U003	672	670	673	670	671	672	672	671	669	668	670	668	672	679	672	660	666	670	670	670	674	671	671	672	672
PKLG	U004	281	210	143	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U005	469	468	469	465	469	469	465	465	469	469	465	469	469	465	465	465	469	469	465	469	465	469	468	466	
PKLG	U006	472	468	472	472	468	468	472	472	465	472	472	468	468	469	472	468	472	474	468	471	472	468	472	466	
TBIN	U001	686	703	689	695	685	662	685	676	690	689	700	689	689	688	691	689	690	689	689	686	685	686	688	689	689
TBIN	U002	691	692	695	695	692	693	690	693	691	691	694	692	690	691	690	693	693	693	693	692	692	691	689	690	691
TBIN	U003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TBIN	U004	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	
Total ST-Coal		6893	6834	6766	6719	6611	6501	6528	6598	6602	6610	6624	6610	6617	6623	6617	6609	6616	6610	6615	6604	6612	6606	6602	6614	6596
PKLG	U002	283	283	281	281	283	281	281	246	201	201	193	201	203	202	0	0	0	0	0	0	0	0	0	0	0
Total ST-Oil		283	283	281	281	283	281	281	246	201	201	193	201	203	202	0	0	0	0	0	0	0	0	0	0	0
PKLG	U001	161	100	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U002	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		161	100	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CBPS	BLK2	370	372	372	371	371	372	372	371	371	372	372	372	375	366	302	298	308	315	363	357	365	365	362	348	363
GLGR	GT01	95	96	95	96	96	95	95	73	69	69	68	68	68	68	68	68	68	67	68	69	82	104	103	102	103
GLGR	GT02	96	96	97	96	96	96	96	71	68	68	68	68	68	68	68	68	68	68	69	68	83	104	104	103	104
GLGR	ST1C	88	89	89	89	89	89	89	80	70	70	70	70	71	71	70	70	70	70	70	70	70	70	70	70	70
KLPP	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	
KLPP	ST17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MPSS	GT01	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MPSS	GT02	96	107	107	107	107	107	92	93	94	92	92	92	91	90	88	92	91	105	105	105	105	105	100	89	
MPSS	ST01	96	48	50	50	50	51	51	40	39	40	40	39	39	39	38	38	39	41	111	111	112	112	112	112	
NPRI	BLK1	504	504	504	528	505	502	503	484	466	428	380	373	365	353	328	318	318	363	496	529	505	507	505	505	
NPRI	BLK2	506	508	508	531	510	506	507	485	469	427	380	374	362	356	326	318	318	541	538	538	534	533	532	533	
PAKA	GT1A	92	91	91	70	65	65	65	65	66	66	65	65	67	66	65	66	65	66	65	66	65	66	65	66	
PAKA	GT1B	93	93	92	81	81	82	82	82	82	82	82	82	82	82	82	82	81	81	81	81	80	80	80	80	
PAKA	ST1C	81	81	81	75	67	66	66	66	66	66	66	66	66	66	66	66	66	67	68	80	80	79	80	80	
PAKA	GT2B	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAKA	ST2C	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAKA	GT3A	90	90	89	69	65	64	65	65	66	66	64	64	65	65	64	66	65	71	88	88	87	87	87	87	
PAKA	GT3B	90	90	89	69	65	64	64	66	66	66	65	64	65	65	64	64	66	72	88	88	86	86	86	85	
PAKA	ST3C	92	92	92	85	77	76	76	76	76	76	76	76	76	76	76	76	77	77	92	92	91	91	91	91	
PAKA	GT4A	95	94	95	95	95	95	95	95	95	95	95	95	94	95	95	94	95	95	94	95	95	93	93	93	
PAKA	GT4B	81	81	82	82	81	81	82	82	82	82	82	82	82	82	81	81	81	81	80	80	79	79	79	78	
PAKA	ST4C	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
PGLA	GT11	215	215	215	196	207	209	208	177	155	154	153	155	152	151	152	150	149	155	225	224	217	223	220	209	
PGLA	GT12	214	213	213	197	208	208	208	178	154	152	152	154	153	152	151	150	150	155	226	223	216	222	222	207	
PGLA	ST10	236	237	237	229	232	232	232	220	200	194	196	196	194	195	195	196	238	250	243	250	248	244	195	107	
PGPS	CT3A	95	82	83	85	83	83	83	83	83	83	83	83	83	83	83	83	83	83	82	83	82	83	94	95	
PGPS	CT3B	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	83	94	93	94	95	
PGPS	ST3C	91	36	37	37	37	37	37	36	36	36	36	36	36	36	36	36	36	37	37	37	37	37	37	37	
PLPS	CT11	114	66	67	73	66	66	66	65	66	66	65	65	66	66	62	64	66	66	116	115	115	115	110	112	

Daily MW Generation on Saturday

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
PLPS	GT12	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	113	79	64	71	66	64	64	63	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
PLPS	ST18	134	119	93	96	94	93	91	92	91	92	92	91	87	89	92	92	91	132	133	202	201	195	201	194
SGB3	GT33	116	117	117	123	117	118	118	117	117	117	117	117	117	117	117	116	117	117	117	117	117	117	117	117
SGB3	ST34	67	68	68	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
SGRI	GT11	130	135	135	135	106	105	105	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
SGRI	GT12	141	143	146	147	111	111	111	72	72	70	70	71	71	70	71	71	71	71	71	71	71	71	71	71
SGRI	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
SGRI	ST14	151	149	150	153	130	132	132	98	97	100	100	99	99	100	100	99	99	96	100	98	136	199	203	208
SGRI	GT21	37	65	65	65	137	135	135	130	130	131	131	131	132	132	132	132	131	131	111	115	111	130	137	
SGRI	GT22	0	0	9	40	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST24	0	0	39	40	132	71	71	72	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
SKSP	BLK1	271	329	341	342	338	336	237	238	226	219	219	219	217	220	218	218	217	217	250	321	252	342	259	
TJGS	GT1A	207	217	221	222	223	220	192	225	219	223	226	224	215	200	130	111	111	220	228	227	224	224	226	
TJGS	GT1B	202	210	216	212	216	213	191	213	217	214	216	217	208	193	120	105	105	210	217	214	216	216	213	
TJGS	ST1C	250	250	250	246	250	253	241	246	250	250	250	244	230	199	156	156	235	251	251	251	251	251	251	251
TJGS	GT2A	217	217	217	219	219	219	219	219	219	219	218	216	211	201	187	187	187	217	217	217	217	217	217	217
TJGS	GT2B	219	219	222	222	219	222	222	218	219	218	218	212	207	198	185	185	185	213	218	218	219	216	217	
TJGS	ST2C	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263
Total CCGT-Gas		6426	6051	6091	6053	6082	5940	5782	5525	5399	5209	5186	5127	5044	4764	4586	4588	5256	5851	6218	6607	6906	6944	6915	
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
BSIA	HY01	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
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	
KNRC	HY01	24	24	24	25	24	24	24	25	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
KNYR	HY01	95	95	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNYR	HY02	99	99	98	67	61	61	60	72	66	66	61	62	64	64	61	58	57	63	71	69	61	101	77	
KNYR	HY03	99	99	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNYR	HY04	99	99	99	67	62	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
LPJA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
PCAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PCAU	HY02	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PCAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
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	
SYPS	HY01	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	
TMGR	HY02	31	33	40	46	40	31	31	35	37	38	33	35	36	34	32	29	28	36	37	36	34	38	34	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY01	0	-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	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		491	492	519	247	229	220	156	173	168	169	159	162	165	187	159	152	150	164	173	254	235	305	407	
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

Daily MW Generation on Saturday

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																										
PCUF	CUFK	19	19	17	19	17	18	17	17	18	19	18	17	18	19	18	18	18	18	18	17	17	18	16	18	17	18	18	17	18	18	19	18	19	18	19	17	17													
Total Co-Gen		19	19	17	19	17	18	17	17	18	19	18	17	18	19	18	18	18	18	18	17	17	18	16	18	17	18	18	17	18	18	19	18	19	18	19	17	17													
Total Gen		14273	13779	13701	13319	13222	12960	12764	12559	12388	12308	12203	12176	12130	12075	11763	11516	11521	12194	12801	13247	13619	14002	14199	14386	14202	13996	13924	14060	14198	14364	14312	14260	14372	14275	14044	13729	13448	13422	13747	14700	14912	14748	14625	14455	14285	14106	14030	13849		
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		
TIE-HVDC		-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	31	31	31	30	-29	-30	-30	-29								
TIE-PLTG		23	13	19	-63	-16	26	13	-15	-25	-24	10	9	-27	-40	6	-16	-18	-26	0	-27	-29	-24	-24	-25	-6	12	-1	-27	-45	5	-14	-1	43	-16	54	3	-24	29	-16	11	63	33	5	-14	50	36	-43	-75		
Interconnection		-7	-15	-10	-92	-46	-3	-17	-43	-54	-53	-19	-20	-56	-68	-22	-44	-46	-55	-29	-56	-58	-53	-53	-54	-35	-17	-30	-56	-74	-24	-43	-29	14	-45	26	-27	-54	0	-45	-18	94	65	36	16	22	6	-73	-104		
System Total		14280	13794	13711	13411	13268	12963	12781	12602	12442	12361	12222	12196	12186	12143	11785	11560	11567	12249	12830	13298	13677	14053	14252	14440	14237	14013	13954	14116	14272	14388	14355	14289	14358	14320	14018	13756	13502	13422	13782	14718	14818	14683	14589	14479	14283	14100	14103	13953		
SRev ST-Coal		132	148	149	130	133	213	192	146	142	134	120	134	127	121	127	135	128	134	129	140	132	138	142	130	148	135	141	129	133	146	127	140	7	120	137	79	2	-105	138	145	143	135	158	105	142	138	135	122		
SRev ST-Oil		-1	-1	1	1	-1	1	1	36	41	41	41	41	41	0	0	0	0	0	0	0	0	0	0	0	0	0	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 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
SRev CCGT-Gas		429	418	488	526	633	665	823	1080	1206	1296	1396	1419	1478	1561	1841	2019	2017	1349	953	707	622	386	378	547	761	690	704	746	647	497	421	469	485	844	1087	1591	1928	2041	1779	851	582	739	837	606	668	828	1056	841		
SRev ST-Gas		37	35	29	0	0	0	0	0	0	0	0	0	0	41	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
SRev Co-Gen		1	1	3	1	3	2	3	3	2	1	2	3	2	1	2	2	0	1	3	0	1	2	1	2	3	2	1	3	2	2	2	2	2	3	3	2	4	2	3	2	2	3	2	2	1	2	1	3	3	
Syncon		936	1123	972	1224	1224	1325	1325	1325	1325	1325	1325	1174	1242	1242	1242	1242	1325	987	1138	1138	1138	785	936	810	810	997	997	997	997	997	997	997	1123	1123	972	1123	1123	1123	997	972	1123	1123	1123	1123	1123	972	1123	1123		
Hydro		106	104	228	148	166	175	138	121	126	125	135	132	129	258	135	142	144	130	121	378	246	176	174	342	198	105	210	207	195	424	197	198	202	136	158	268	140	157	107	190	273	138	140	123	140	164	224	96		
S.Reserve Total		1640	1828	1870	2030	2158	2280	2482	2711	2842	2922	3019	3054	3102	3156	3388	3578	3569	2894	2569	2250	2177	1877	1871	1824	2048	1746	1868	2083	1975	1694	1746	1808	1696	2228	2509	2914	3195	3221	3149	2187	1975	2139	2262	1960	2077	2256	2382	2187		