

## Daily System Generation Summary on Saturday

Saturday, October 15, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,807 MW
Hydro	2,222 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,029 MW</b>
<b>Total IPP</b>	<b>14,496 MW</b>
<b>Total Co-Gen</b>	<b>55 MW</b>
<b>Total System</b>	<b>19,580 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	46,685	14.25 %
Hydro	7,208	2.20 %
<b>Total TNB</b>	<b>53,893</b>	<b>16.45 %</b>
ST-Coal	196,878	60.09 %
ST-Gas	5,201	1.59 %
Gas	69,755	21.29 %
<b>Total IPP</b>	<b>271,834</b>	<b>82.97 %</b>
Co-Gen	1,184	0.36 %
<b>Total Co-Gen</b>	<b>1,184</b>	<b>0.36 %</b>
<b>Total Generation</b>	<b>326,911</b>	<b>99.78 %</b>
PLTG	-14	0.00 %
HVDC	-695	-0.21 %
<b>Interconnection</b>	<b>-709</b>	<b>-0.22 %</b>
<b>Net Energy</b>	<b>327,620</b>	<b>100.00 %</b>

### 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:	19:30:00 Hour
Total Set On Bus	16,778 MW
TNB Generation	2,755 MW
IPP Generation	12,239 MW
Spinning Reserve	1,735 MW
Maximum Demand	15,113 MW
Net Energy	327,620 MWH
Load Factor	90.33 %

### Fuel Cost

Total Cost:	43,844,167.05 RM
Cost per Unit	13.73 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	375
Hydro	159
Syncon	1,168
Thermal	168
<b>Total</b>	<b>1,870</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	1
GLGR	5
PAKA	99
PGPS	27
TJGS	210
<b>Total TNB</b>	<b>342</b>
KLPP	94
MPSS	50
NPRI	139
PGLA	52
SGB3	25
SGRI	166
PKLG	52
<b>Total IPP</b>	<b>579</b>
<b>Total Gas</b>	<b>921</b>

**Total Gas Required 921**

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

### 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	14034	13502	12957	12600	12221	12009	12080	11677	11691	12900	13663	14328	14210	14043	14378	14488	14573	14272	13785	14229	15043	14969	14647	14510

### 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	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689	689
JMAH	U002	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693
JMJC	U001	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675	675
JMJC	U002	673	674	676	677	674	676	674	672	675	673	677	674	667	674	667	670	676	674	678	674	673	676	674	676
JMJC	U003	671	672	668	668	671	673	671	671	673	671	671	671	655	666	674	672	668	671	671	673	671	671	668	670
JMJC	U004	900	900	899	901	900	900	891	803	780	782	781	782	779	781	780	782	782	782	781	789	782	781	804	892
PKLG	U004	280	279	280	280	281	281	279	279	279	281	281	281	281	281	279	280	281	280	279	280	279	280	279	280
PKLG	U005	469	466	466	466	464	466	467	469	464	466	468	466	467	467	466	469	466	469	466	466	466	466	466	467
PKLG	U006	469	470	467	471	471	471	471	471	467	465	470	472	470	472	472	470	470	466	473	469	473	470	470	467
TBIN	U001	689	687	689	688	689	689	689	688	689	689	689	688	686	689	648	686	686	688	688	689	692	689	687	687
TBIN	U002	693	690	693	693	690	692	692	690	689	694	694	690	691	691	692	651	678	691	691	692	690	693	690	692
TBIN	U003	691	692	691	692	691	690	692	695	693	691	692	692	691	691	690	650	690	691	691	692	690	693	693	691
TBIN	U004	902	902	903	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902
Total ST-Coal		8484	8490	8489	8495	8488	8499	8487	8398	8369	8372	8378	8376	8341	8069	8080	7918	8008	8034	8036	8049	8028	8044	8040	8145
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
PKLG	U002	173	147	146	146	146	146	146	146	146	146	146	146	146	146	146	185	262	271	276	279	282	282	250	282
Total ST-Gas		173	147	146	146	146	146	146	146	146	146	146	146	146	146	146	185	262	271	276	279	282	282	250	282
CBPS	CT1A	86	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	ST1C	40	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT13	121	121	121	102	66	71	70	70	69	70	70	71	70	70	70	71	108	137	141	142	142	141	141	142
KLPP	GT14	76	0	0	0	0	0	0	0	0	0	0	0	0	0	9	131	131	157	157	158	158	158	157	157
KLPP	GT15	138	137	140	118	79	82	79	79	79	81	84	81	83	84	81	78	79	82	125	150	155	155	154	154
KLPP	ST17	187	131	129	118	93	90	90	90	90	86	91	91	89	89	92	94	91	94	119	194	205	205	204	204
MPSS	CT01	102	0	0	0	0	0	0	0	0	0	0	0	0	0	55	107	105	105	105	104	104	104	103	103
MPSS	CT02	103	100	101	101	99	92	93	93	91	91	92	91	93	93	90	92	90	92	91	88	110	105	105	105
MPSS	ST01	109	45	47	47	48	41	41	41	40	39	40	40	39	39	39	40	41	37	106	111	111	111	112	
NPRI	BLK1	463	487	507	400	368	379	350	367	333	298	299	299	300	363	334	301	347	473	527	487	482	539	538	
NPRI	BLK2	463	488	512	400	366	377	350	366	329	296	298	298	297	363	333	298	346	474	532	488	485	538	536	
PAKA	CT3A	88	89	89	89	89	65	65	65	65	65	65	65	65	65	65	85	85	85	84	85	84	84	83	
PAKA	CT3B	89	88	89	90	90	64	65	64	64	65	64	66	65	64	89	88	88	86	83	85	85	85	85	
PAKA	ST3C	90	90	90	90	90	76	75	75	75	75	75	75	75	75	75	76	88	90	90	90	89	89	89	
PAKA	CT4A	95	95	95	95	95	85	84	85	85	85	85	85	85	85	84	95	94	94	94	93	93	93	93	
PAKA	GT4B	81	82	81	82	82	75	75	75	75	75	75	75	75	75	80	80	80	79	79	79	79	78	78	
PAKA	ST4C	91	91	91	91	90	81	80	80	80	80	80	80	80	81	81	89	90	91	91	91	91	91	91	
PCLA	GT12	191	204	225	162	175	154	161	165	153	155	161	156	173	155	173	220	200	191	216	213	214	166	155	
PCLA	ST10	111	113	106	91	94	92	91	91	94	92	92	94	94	92	92	92	92	92	115	99	113	114	114	
PCPS	CT3B	95	94	94	94	94	84	83	83	84	83	83	83	84	83	83	83	83	96	97	95	96	95	95	
PCPS	ST3C	44	44	44	44	44	38	38	38	38	38	38	38	38	38	38	38	38	38	40	39	39	46	46	
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	29	27	29	29	47	70	
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT11	109	109	65	65	66	66	65	67	65	65	65	65	64	65	65	66	66	104	108	108	116	140	129	
SGRI	CT12	115	115	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	111	110	118	149	
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	65	137	136	137	
SGRI	ST14	137	137	98	99	95	98	98	93	95	96	96	93	93	98	96	97	96	97	110	130	200	205	221	
SGRI	CT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	137	137	131	127	
SGRI	CT22	116	116	71	71	71	71	71	71	71	71	71	71	70	70	70	108	111	111	119	142	135	128	132	



### 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																											
Interconnection		-13	-27	-11	-58	28	-52	-5	-16	-13	-25	-29	-23	-88	-47	-15	-27	-44	-58	-34	-9	-52	-88	-103	-46	-44	-36	-45	-40	-49	-107	-33	-47	-51	-8	13	-18	-2	-29	-7	-70	16	-26	41	-6	48	-14	-35	-14			
System Total		14034	13732	13502	13189	12857	12880	12600	12504	12221	12107	12009	12028	12080	12037	11677	11435	11691	12274	12900	13322	13663	14139	14328	14421	14210	14073	14043	14265	14378	14634	14488	14620	14573	14504	14272	14013	13785	13727	14229	15113	15043	15085	14969	14983	14647	14724	14510	14253			
SRev ST-Coal		141	145	146	140	147	136	148	117	146	143	137	139	174	299	298	453	177	151	149	136	157	141	145	160	151	150	156	165	165	126	153	142	169	155	159	152	178	146	157	156	149	156	149	185	203	193	187	183			
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	-5	-5	-5	-5	-6	-6	-6	-6	73		
SRev CCGT-Gas		601	765	709	1068	1225	1107	1350	1349	1600	1729	1637	1612	1612	1359	1682	1753	1597	1063	802	495	396	195	58	172	352	425	629	420	304	118	-517	259	383	278	365	662	814	936	471	304	387	359	412	376	515	415	628	496			
SRev ST-Gas		39	37	37	37	37	37	37	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	40	20	11	6	3	0	0	32	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		6	4	6	6	7	5	7	5	5	5	4	4	2	2	4	3	3	4	6	6	5	6	6	6	6	7	5	7	4	6	6	8	10	5	6	6	6	6	7	7	6	6	7	7	8	7	7	3	5		
Syncon		1100	1100	1100	1100	949	1100	949	1100	1100	1201	1201	1201	1201	1050	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1050	1201	1201	1201	1201	1201	1050	1050	1201	1201	1201	1100	1100	1100	1100	1100	1100	1100	1100	1201				
Hydro		141	112	99	106	238	142	269	139	139	139	137	117	251	114	136	143	133	87	135	135	87	85	203	169	133	136	266	125	120	96	245	170	94	265	265	147	142	136	174	181	182	185	257	183	178	210	177				
S.Reserve Total		2028	2163	2087	2457	2603	2527	2760	2747	3028	3154	3156	3131	3144	2999	3337	3584	3159	2590	2283	2011	1932	1668	1535	1762	1881	1920	2132	1905	1801	1603	1975	1857	1908	1734	1845	2135	2347	2432	1971	1735	1799	1799	1848	1920	2002	1887	2122	2135			