



## Daily System Generation Summary on Saturday

Saturday, December 17, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,291 MW
Hydro	2,135 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,426 MW</b>
<b>Total IPP</b>	<b>13,353 MW</b>
<b>Total Co-Gen</b>	<b>35 MW</b>
<b>Total System</b>	<b>18,814 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	52,252	16.21 %
Hydro	9,155	2.84 %
<b>Total TNB</b>	<b>61,407</b>	<b>19.05 %</b>
ST-Coal	163,114	50.60 %
Gas	98,212	30.47 %
<b>Total IPP</b>	<b>261,326</b>	<b>81.07 %</b>
Co-Gen	789	0.24 %
<b>Total Co-Gen</b>	<b>789</b>	<b>0.24 %</b>
<b>Total Generation</b>	<b>323,522</b>	<b>100.36 %</b>
PLTG	441	0.14 %
HVDC	731	0.23 %
<b>Interconnection</b>	<b>1,172</b>	<b>0.36 %</b>
<b>Net Energy</b>	<b>322,350</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:	20:00:00 Hour
Total Set On Bus	16,222 MW
TNB Generation	3,054 MW
IPP Generation	11,585 MW
Spinning Reserve	1,530 MW
Maximum Demand	14,666 MW
Net Energy	322,350 MWH
Load Factor	91.58 %

### Fuel Cost

Total Cost:	44,531,232.55 RM
Cost per Unit	14.16 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	537
Hydro	366
Syncon	680
Thermal	180
<b>Total</b>	<b>1,763</b>

### Time Weather Temperature

Afternoon	Hot	25
Morning	Cloudy	24

### 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	13984	13432	12910	12558	12164	12068	12004	11864	11641	12842	13707	14257	14267	13943	14214	14131	14070	13851	13609	13869	14666	14397	14052	13832

### Gas Usage

Station	(mmscfd)
GLGR	57
PAKA	50
PGPS	45
SRDG	5
TJGS	221
<b>Total TNB</b>	<b>378</b>
CBPS	55
KLPP	103
MPSS	52
NPRI	89
PDPS	3
PGLA	112
PLPS	84
SGB3	34
SGRI	148
SKSP	52
<b>Total IPP</b>	<b>733</b>
<b>Total Gas</b>	<b>1,112</b>
<b>Total Gas Required</b>	<b>1,112</b>

### Alternate Fuel Usage

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

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(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi







### 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																									
Total Co-Gen		18	16	17	18	19	16	19	17	18	17	18	19	19	19	19	19	18	18	16	19	19	33	34	41	49	49	50	51	51	52	53	55	51	52	54	51	53	52	52	53	38	52	52	51					
Total Gen		14073	13842	13540	13193	12888	12717	12563	12440	12248	12203	12102	11959	12049	12008	11917	11602	11660	12302	12858	13279	13759	14160	14355	14437	14303	14015	13968	14116	14213	14343	14139	14123	14133	14041	13906	13681	13664	13609	13894	14639	14692	14557	14424	14437	14099	13956	13886	13602	
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		
TIE-HVDC		31	31	30	30	31	31	30	30	31	31	32	32	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31	30	30	31	31	31	31	30	30	31	29	31	29	31	31	30	30	30	31	31	31	30	30
TIE-PLTG		58	77	78	66	47	57	-25	13	53	32	3	-20	15	22	22	69	-2	15	-15	-16	22	68	68	-14	6	20	-6	-10	-31	6	-22	5	32	20	24	4	24	6	-5	14	-5	-5	-4	-1	17	46	24	31	
Interconnection		89	108	108	96	78	88	5	42	84	62	34	12	45	53	53	100	28	45	16	15	52	98	98	16	36	51	25	21	-1	36	8	35	63	50	55	34	55	36	25	44	26	25	27	30	47	76	54	61	
System Total		13984	13734	13432	13097	12910	12629	12558	12398	12164	12141	12068	11947	12004	11955	11864	11502	11641	12257	12842	13264	13707	14062	14257	14421	14267	13964	13943	14095	14214	14307	14131	14088	14070	13991	13851	13847	13609	13573	13809	14595	14666	14532	14397	14407	14052	13880	13832	13541	
SRev ST-Coal		238	241	226	240	239	239	207	228	239	241	209	220	245	242	237	246	243	246	238	247	219	198	246	237	232	237	247	136	132	136	135	140	142	143	151	143	134	135	135	147	135	132	146	137	139	140	126	135	
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	65	-24	-24	-22	-23	-22	0	0	0
SRev CCGT-Gas		303	432	399	547	458	722	932	1021	1194	1237	1382	819	761	851	925	1219	1171	1145	771	954	605	436	452	403	535	679	715	583	499	413	582	507	611	617	596	642	621	682	401	296	373	333	445	385	583	397	437	488	
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
SRev Co-Gen		2	4	3	2	1	4	1	3	2	3	2	1	3	1	2	1	1	1	1	1	1	2	2	4	1	1	22	21	14	6	6	5	4	4	3	2	0	4	3	1	4	2	3	3	-32	-17	-31	-31	-30
Syncon		828	828	828	929	929	929	929	929	929	929	929	1080	929	930	1080	1080	828	828	829	829	476	476	325	325	602	602	602	602	602	451	854	703	854	980	1081	1081	1081	1081	829	829	829	829	930	1081	1081	930	930		
Hydro		211	213	291	254	255	258	237	247	258	255	245	246	121	257	125	138	125	171	159	162	196	488	427	556	560	430	430	430	429	431	469	303	338	273	296	134	127	130	128	133	215	292	297	254	225	163	258	258	
S Reserve Total		1586	1722	1751	1976	1886	2156	2310	2432	2626	2669	2771	2219	2214	2284	2223	2688	2624	2395	2001	2197	1853	1604	1609	1526	1657	1974	2019	1769	1672	1588	1642	1608	1798	1890	2025	2000	1967	2031	1746	1474	1530	1665	1798	1651	1989	1750	1729	1781	