

## Daily System Generation Summary on Saturday

Saturday, July 30, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,589 MW
Hydro	1,873 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,462 MW</b>
<b>Total IPP</b>	<b>14,802 MW</b>
Total Co-Gen	0 MW
<b>Total System</b>	<b>20,828 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	41,277	12.85 %
Hydro	5,660	1.76 %
<b>Total TNB</b>	<b>46,937</b>	<b>14.61 %</b>
ST-Coal	170,874	53.18 %
Gas	103,408	32.19 %
<b>Total IPP</b>	<b>274,282</b>	<b>85.37 %</b>
Co-Gen	923	0.29 %
<b>Total Co-Gen</b>	<b>923</b>	<b>0.29 %</b>
<b>Total Generation</b>	<b>322,142</b>	<b>100.27 %</b>
PLTG	138	0.04 %
HVDC	721	0.22 %
<b>Interconnection</b>	<b>859</b>	<b>0.27 %</b>
<b>Net Energy</b>	<b>321,283</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	16,097 MW
TNB Generation	2,218 MW
IPP Generation	12,364 MW
Spinning Reserve	1,476 MW
Maximum Demand	14,577 MW
Net Energy	321,283 MWH
Load Factor	91.84 %

### Fuel Cost

Total Cost:	41,288,993.40 RM
Cost per Unit	13.05 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	470
Hydro	252
Syncon	913
Thermal	175
<b>Total</b>	<b>1,810</b>

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	26
GLGR	32
PAKA	4
PGPS	24
TJGS	209
<b>Total TNB</b>	<b>295</b>

CBPS	52
KLPP	95
MPSS	30
NPRI	153
PGLA	109
PLPS	73
PTEK	1
SGRI	206
SKSP	50
<b>Total IPP</b>	<b>769</b>

**Total Gas 1,064**

**Total Gas Required 1,064**

### 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	14120	13401	13010	12581	12154	12008	11977	11739	11435	12685	13559	14251	14181	13870	14169	14283	14162	13825	13404	13399	14577	14416	14114	13922

Prepared By: Kannathason a/l Karuppiah

Checked By: Ibrahim bin Said

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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																									
TIE-HVDC		31	31	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	30	31	31	29	29	30	30	29	29	30	30	31	31	30	30	31	31	30	30													
TIE-PLTG		-21	-35	-16	-8	-3	3	7	-18	18	-3	6	56	3	-4	39	-11	23	-31	-18	-36	8	1	-37	-11	56	5	-15	12	11	32	21	12	-2	23	17	21	-20	42	0	12	15	38	30	28	2	11	20	-6	
Interconnection		10	-5	14	22	27	33	37	12	48	27	35	86	32	26	69	19	54	0	12	-6	37	31	-6	20	86	35	14	42	40	61	51	42	28	53	48	52	10	71	30	42	44	68	60	58	33	42	50	24	
System Total		14120	13690	13401	13213	13010	12799	12581	12378	12154	12119	12008	11836	11977	11887	11739	11418	11436	12130	12686	13160	13560	13894	14252	14354	14182	14016	13872	14082	14171	14344	14283	14267	14162	14098	13825	13561	13404	13267	13399	13951	14577	14506	14416	14394	14114	14036	13822	13861	
SRev ST-Coal		180	122	117	115	102	106	114	115	117	108	119	106	108	106	127	-64	76	27	127	679	113	110	58	181	180	174	169	177	187	178	176	174	78	68	73	60	63	76	75	68	68	182	183	166	146	164	180	164	
SRev OCGT-Gas		13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		295	615	836	334	268	470	675	902	1089	1153	1249	1377	1293	1411	1475	2050	2047	1456	884	943	610	403	339	357	437	546	707	457	513	382	341	311	312	509	790	1016	1215	1302	1217	702	363	350	392	385	377	456	371	349	
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		-17	-19	-21	-18	-18	-20	-20	-19	-19	-19	-20	-20	-20	-19	-19	-22	-20	-20	-16	-18	-17	-16	-14	-18	-16	-15	-15	-17	-16	-16	-15	-18	-20	-19	-20	-18	-19	-21	-19	-20	-17	-18	-20	-20	-19	-21			
Syncon		936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	
Hydro		129	135	135	132	134	133	136	136	135	135	131	137	133	264	133	270	130	133	127	127	251	243	247	237	262	281	288	291	288	286	247	304	308	303	291	262	260	395	257	250	265	308	238	212	238	235	194	241	
S.Reserve Total		1536	1789	2003	1499	1422	1627	1841	2069	2257	2313	2416	2537	2450	2546	2651	3022	3069	2429	1952	2563	1792	1572	1461	1593	1699	1716	1881	1633	1696	1552	1673	1698	1608	1787	2069	2244	2443	2529	2455	1924	1476	1619	1721	1670	1678	1772	1653	1670	