

## Daily System Generation Summary on Saturday

Saturday, October 18, 2014

### Availability at Daily Maximum Demand Hour

ST-Coal	2,070 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,109 MW
Hydro	1,579 MW
Distillate	0 MW
<b>Total TNB</b>	<b>7,758 MW</b>
<b>Total IPP</b>	<b>9,683 MW</b>
<b>Total Co-Gen</b>	<b>0 MW</b>
<b>Total System</b>	<b>17,441 MW</b>

### Generation Mix

Type	MWh	Percentage
ST-Coal	48,447	15.85 %
Gas	69,307	22.68 %
Hydro	7,935	2.60 %
Distillate	75	0.02 %
<b>Total TNB</b>	<b>125,764</b>	<b>41.15 %</b>
ST-Coal	100,307	32.82 %
ST-Oil	10,702	3.50 %
Gas	65,697	21.50 %
<b>Total IPP</b>	<b>176,706</b>	<b>57.82 %</b>
Co-Gen	1,823	0.60 %
<b>Total Co-Gen</b>	<b>1,823</b>	<b>0.60 %</b>
<b>Total Generation</b>	<b>304,293</b>	<b>99.56 %</b>
PLTG	-642	-0.21 %
HVDC	-698	-0.23 %
<b>Interconnection</b>	<b>-1,340</b>	<b>-0.44 %</b>
<b>Net Energy</b>	<b>305,633</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 6/11/2014	16,901 MW
Date: 6/24/2014	355,911 MWH

### Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	19:30:00 Hour
Total Set On Bus	15,141 MW
TNB Generation	5,634 MW
IPP Generation	8,236 MW
Spinning Reserve	1,197 MW
Maximum Demand	14,011 MW
Net Energy	305,633 MWH
Load Factor	90.88 %

### Fuel Cost

Total Cost:	44,753,640.77 RM
Cost per Unit	15.10 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	289
Hydro	98
Syncon	537
Thermal	53
<b>Total</b>	<b>977</b>

Time	Weather	Temperature
Afternoon	Rainy	35
Morning	Sunny	25

### Gas Usage

Station	(mmscfd)
CBPS	10
CBPS	58
GLGR	56
PAKA	121
PGPS	51
SRDG	21
TJGS	215
<b>Total TNB</b>	<b>531</b>
KLPP	80
MPSS	56
PDPS	20
PKLG	7
PLPS	97
PTEK	15
SGRI	197
SKSP	2
YPKA	68
<b>Total IPP</b>	<b>543</b>
<b>Total Gas</b>	<b>1,074</b>
<b>Total Gas Required</b>	<b>1,178</b>

### Alternate Fuel Usage

Station	(mmscfd)
PKLG	104
<b>Total</b>	<b>104</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	13029	12305	11839	11629	11357	11219	11125	11023	11010	12080	13172	13749	13869	13397	13769	13766	13592	13250	13035	13485	13906	13847	13262	12881

Prepared By: Abu Bakar bin K.K. Ibrahim

Checked By: Muhamad Izwan

Printed on: Sunday, October 19, 2014 9:08:20 AM  
 (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																										
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	49	50	50	50	50	50	50	50	50																	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	50	50	50	50	50	50	50	50																	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	30	30	49	50	50	50	50	50	50	50	50	50																	
SYPS	HY01	25	25	25	0	0	0	0	0	0	0	0	25	25	16	16	16	16	16	16	16	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25												
SYPS	HY02	25	25	25	14	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25												
SYPS	HY03	25	25	25	25	0	0	0	0	0	0	0	0	25	25	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25												
SYPS	HY04	25	25	25	25	0	0	0	0	0	0	0	0	25	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	25	25	25	25	25	25												
TMGR	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	-1	-1	-1	-1	-1	-1	-1	-1												
TMGR	HY03	34	41	27	35	26	40	36	33	34	32	33	33	32	36	34	28	29	41	30	38	41	38	26	45	46	40	40	46	43	42	41	40	42	41	39	44	46	42	44	41	40	39	41	41	38	45	44	41		
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UPLA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
UPLA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		379	394	332	343	232	314	288	245	259	243	252	256	245	288	271	312	284	356	299	313	283	280	238	275	321	202	197	247	213	216	262	258	263	247	343	310	227	307	314	407	721	557	498	501	494	510	508	502		
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	CUGF	36	36	37	37	38	38	39	38	38	38	38	38	38	36	37	35	36	34	33	35	32	34	37	34	34	35	35	35	34	35	34	35	35	34	35	36	36	37	36	37	38	38	39	39	38	39	38	39	39	
PCUF	CUFK	39	39	41	40	39	38	40	41	39	39	39	40	41	40	41	40	40	39	41	39	41	39	41	39	41	41	40	40	40	41	38	42	40	40	40	41	38	40	38	38	38	39	39	38	38	38	38	38	38	
Total Co-Gen		75	75	78	77	77	76	78	80	77	77	77	78	79	78	76	78	75	77	74	73	74	73	73	78	73	75	76	75	74	75	73	77	74	75	76	77	76	74	77	76	76	76	78	78	76	77	77	77	77	
Total Gen		12989	12515	12353	12114	11878	11687	11506	11294	11371	11240	11166	11128	11070	11078	10986	10832	10943	11581	12036	12381	13152	13449	13776	13856	13824	13512	13312	13485	13672	13656	13720	13550	13543	13419	13209	13050	12943	12834	13488	13944	13950	13783	13790	13530	13273	13167	12792	12585		
TIE-BGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	-30	-30	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-28	-28	-28	-29	-31	-31	-30	-28	-29	-26	-29	-28	-28	-29	-28	-28	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		-10	8	77	-2	68	31	-93	-23	43	-21	-23	-35	-25	-113	-7	-14	-38	-110	-15	-102	9	-71	55	-30	-16	-52	-56	-105	-66	-3	-18	-27	-21	-57	-13	-61	-63	-55	-19	-39	73	-64	-28	-56	40	-32	-60	-45		
Interconnection		-40	-21	48	-32	39	1	-123	-52	14	-50	-53	-64	-55	-143	-37	-44	-67	-139	-44	-131	-20	-100	27	-58	-45	-82	-85	-135	-97	-33	-46	-56	-49	-86	-41	-90	-92	-83	-47	-68	44	-93	-57	-85	11	-61	-89	-74		
System Total		13029	12536	12305	12146	11839	11686	11629	11346	11357	11290	11219	11192	11125	11221	11023	10876	11010	11720	12080	12512	13172	13549	13749	13914	13869	13594	13397	13620	13769	13689	13766	13606	13592	13505	13250	13140	13035	12917	13485	14012	13906	13876	13847	13615	13262	13228	12881	12659		
SRev ST-Coal		77	74	74	70	96	76	75	67	73	59	74	59	74	68	89	74	41	30	19	42	57	30	52	57	42	49	45	47	86	29	27	26	-21	23	50	93	18	36	33	6	35	30	22	35	43	27	44	41		
SRev ST-Oil		5	4	4	4	4	70	78	74	74	75	75	75	74	74	75	75	75	81	82	22	5	5	7	85	86	29	14	4	3	3	3	8	31	40	39	34	0	2	2	0	2	0	18	81	82					
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	159	102	16	76	67	198	202	118	112	126	111	139	99	137	65	0	0	277	20	82	157	195	202	228	12	0	0	0	0			
SRev CCGT-Gas		289	578	681	934	683	909	901	1033	961	1090	1158	1216	1248	1289	1341	1553	1410	857	776	721	177	182	227	131	128	183	303	257	162	167	163	203	191	195	238	147	134	281	162	254	260	192	98	153	173	77	200	91		
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
SRev Co-Gen		1	1	-2	-1	-1	0	-2	-4	-1	-1	-1	-2	-3	-2	0	-2	1	-1	2	3	2	3	3	-2	3	1	0	1	1	2	1	1	3	-1	2	1	0	-1	0	2	-1	0	-2	-2	0	-1	-1			
Syncon		727	727	727	727	727	576	727	727	727	727	727	727	576	727	727	727	576	727	727	727	576	727	727	576	727	727	727	727	626	626	626	626	626	475	727	727	727	727	475	626	727	727	727	727	727	727	727			
Hydro		74	59	121	85	121	190	65	108	94	110	101	97	109	66	234	117	107	51	259	94	74	77	271	84	139	105	110	60	94	91	146	150	140	147	56	249	80	150	143	188	126	139	97	94	101	85	87	93		
S.Reserve Total		1173	1443	1605	1819	1630	1821	1844	2005	1928	2060	2134	2172	2230	2222	2314	2544	2361	1739	1707	1662	1277	1203	1167	1078	960	1270	1470	1296	1211	1156	1078	1148	1046	1135	1045	996	999	1232	1376	1197	979	1146	1139	1211	1270	946	1138	1033		