

## Daily System Generation Summary on Sunday

Sunday, December 27, 2015

### Availability at Daily Maximum Demand Hour

ST-Coal	2,270 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,282 MW
Hydro	2,023 MW
Distillate	0 MW
Total TNB	<u>7,575 MW</u>
Total IPP	<u>9,549 MW</u>
Total Co-Gen	<u>0 MW</u>
Total System	<u>17,124 MW</u>

### Generation Mix

Type	MWh	Percentage
ST-Coal	48,245	17.10 %
Gas	61,778	21.90 %
Hydro	7,310	2.59 %
<b>Total TNB</b>	<b>117,333</b>	<b>41.60 %</b>
ST-Coal	90,896	32.23 %
ST-Gas	4,741	1.68 %
Gas	67,549	23.95 %
<b>Total IPP</b>	<b>163,186</b>	<b>57.85 %</b>
Co-Gen	883	0.31 %
<b>Total Co-Gen</b>	<b>883</b>	<b>0.31 %</b>
<b>Total Generation</b>	<b>281,402</b>	<b>99.77 %</b>
PLTG	76	0.03 %
EGAT	-34	-0.01 %
HVDC	-702	-0.25 %
<b>Interconnection</b>	<b>-660</b>	<b>-0.23 %</b>
<b>Net Energy</b>	<b>282,062</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:	20:00:00 Hour
Total Set On Bus	14,422 MW
TNB Generation	5,220 MW
IPP Generation	7,960 MW
Spinning Reserve	1,205 MW
Maximum Demand	13,267 MW
Net Energy	282,062 MWH
Load Factor	88.59 %

### Fuel Cost

Total Cost:	37,183,755.45 RM
Cost per Unit	13.57 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	355
Hydro	117
Syncon	819
Thermal	120
<b>Total</b>	<b>1,411</b>

### Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	58
GLGR	52
NPRI	3
PAKA	161
PGPS	51
TJGS	159
<b>Total TNB</b>	<b>483</b>
KLPP	89
PDPS	1
PGLA	109
PKLG	1
PLPS	92
SGB3	45
SGRI	166
SKSP	22
PKLG	47
<b>Total IPP</b>	<b>574</b>
<b>Total Gas</b>	<b>1,056</b>
<b>Total Gas Required</b>	<b>1,056</b>

### 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	12700	12087	11714	11252	11078	10686	10597	10457	9960	10579	11186	11642	11699	11904	11986	12109	12143	11917	11645	12077	13267	13201	13065	12858

Prepared By: Ibrahim bin Said

Checked By: -Select Name-

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(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi





**Daily MW Generation on Sunday**

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																										
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																										
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																										
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																										
Total Hydro		473	467	466	260	340	207	209	211	200	200	218	222	221	213	218	205	227	214	212	215	221	305	313	416	426	396	474	361	321	318	221	213	217	213	203	209	202	201	229	462	466	461	465	460	458	273	278	273		
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	CURF	7	7	7	7	8	7	8	8	8	7	7	8	9	8	8	8	8	9	9	8	8	7	8	8	7	8	8	7	8	7	8	7	7	8	9	10	9	9	9	7	7	9	8	8	8	9	9			
PCUF	CUFK	30	30	30	29	28	28	31	28	30	30	30	31	29	31	29	29	27	25	24	27	27	29	30	25	28	29	28	30	29	29	31	30	28	29	29	30	29	28	30	30	30	29	30	30	30	30	30	30		
Total Co-Gen		37	37	37	36	36	35	39	36	38	37	37	39	38	39	37	37	35	34	34	32	35	34	37	38	32	35	36	35	38	37	36	39	37	35	37	38	40	38	37	39	37	37	38	38	38	38	39	39		
Total Gen		12684	12321	12060	11707	11644	11322	11227	11136	11071	10667	10645	10648	10538	10572	10491	10020	9921	10209	10524	10951	11175	11478	11617	11779	11682	11703	11822	11926	11916	12010	12071	12106	12132	12141	11957	11779	11628	11825	12058	13095	13217	13234	13193	13117	13061	12895	12855	12642		
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	-30	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-30	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		14	-52	2	-29	-41	9	4	28	21	-40	-12	-41	-30	-7	64	52	-10	45	-25	27	18	19	4	18	12	-90	-53	-54	-40	47	-8	-20	19	31	69	11	12	52	9	-34	-21	48	20	0	25	-6	26	57		
Interconnection		-16	-82	-27	-58	-70	-20	-25	-2	-7	-69	-41	-70	-59	-36	34	22	-39	15	-85	-2	-11	-10	-25	-12	-17	-119	-82	-84	-70	17	-38	-49	-11	1	40	-18	-17	23	-19	-63	-50	19	-8	-28	-4	-36	-3	28		
System Total		12700	12403	12087	11765	11714	11342	11252	11138	11078	10736	10686	10718	10597	10608	10487	9998	9960	10194	10579	10953	11186	11488	11642	11791	11699	11822	11904	12010	11986	11993	12109	12155	12143	12140	11917	11797	11645	11802	12077	13158	13267	13215	13201	13145	13065	12931	12858	12642		
SRev ST-Coal		116	114	119	128	108	109	105	111	128	176	232	229	225	204	315	421	436	408	306	124	91	120	118	106	100	110	106	116	114	118	109	126	125	127	137	119	123	115	100	67	50	67	63	35	54	53	57	67		
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	21	53	91	0	0	0	0	
SRev CCGT-Gas		142	361	615	192	355	539	643	732	769	1105	993	994	1104	1085	1077	1417	1488	1229	1087	840	710	410	368	421	526	167	461	392	409	303	505	394	370	352	520	824	964	1089	972	220	220	260	174	255	290	162	204	198		
SRev ST-Gas		1	-1	0	-1	0	0	1	-1	0	19	35	36	35	35	35	35	35	35	35	36	36	36	36	36	36	35	35	38	39	39	39	39	39	36	35	35	35	35	35	35	35	36	27	3	1	-1	-1	1	1	1
SRev Co-Gen		-37	-37	-37	-36	-36	-35	-39	-36	-38	-37	-37	-39	-38	-39	-37	-37	-35	-34	-34	-32	-35	-34	-37	-38	-32	-35	-36	-35	-38	-37	-36	-39	-37	-35	-37	-38	-40	-38	-37	-39	-37	-37	-38	-38	-38	-38	-39	-39		
Syncon		838	838	838	838	687	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	
Hydro		113	119	120	76	147	129	127	125	136	136	118	114	115	123	118	121	99	112	114	111	105	171	163	160	150	131	103	65	105	108	105	113	109	113	123	117	124	125	248	114	110	115	111	116	118	103	98	103		
S.Reserve Total		1173	1394	1655	1197	1261	1580	1675	1769	1833	2237	2179	2172	2279	2246	2346	2795	2861	2588	2347	1917	1745	1541	1486	1523	1617	1095	1359	1415	1467	1369	1560	1468	1440	1430	1616	1895	2044	2164	2006	1327	1205	1297	1238	1265	1261	1119	1159	1168		