

## Daily System Generation Summary on Friday

Friday, December 30, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,493 MW
Hydro	2,326 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,819 MW</b>
<b>Total IPP</b>	<b>14,211 MW</b>
<b>Total Co-Gen</b>	<b>0 MW</b>
<b>Total System</b>	<b>20,030 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	53,337	16.36 %
Hydro	5,939	1.82 %
<b>Total TNB</b>	<b>59,276</b>	<b>18.18 %</b>
ST-Coal	170,762	52.37 %
Gas	95,309	29.23 %
<b>Total IPP</b>	<b>266,071</b>	<b>81.59 %</b>
Co-Gen	430	0.13 %
<b>Total Co-Gen</b>	<b>430</b>	<b>0.13 %</b>
<b>Total Generation</b>	<b>325,777</b>	<b>99.90 %</b>
PLTG	324	0.10 %
HVDC	-636	-0.20 %
<b>Interconnection</b>	<b>-312</b>	<b>-0.10 %</b>
<b>Net Energy</b>	<b>326,089</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:	16:00:00 Hour
Total Set On Bus	16,940 MW
TNB Generation	3,000 MW
IPP Generation	12,200 MW
Spinning Reserve	1,722 MW
Maximum Demand	15,291 MW
Net Energy	326,089 MWH
Load Factor	88.86 %

### Fuel Cost

Total Cost:	45,895,098.50 RM
Cost per Unit	14.34 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	462
Hydro	316
Syncon	981
Thermal	131
<b>Total</b>	<b>1,890</b>

### Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
CBPS	24
GLGR	54
PAKA	80
PGPS	41
TJGS	202
<b>Total TNB</b>	<b>400</b>

CBPS	51
KLPP	97
MPSS	27
NPRI	139
PGLA	104
PLPS	92
PTEK	3
SGRI	162
SKSP	45
<b>Total IPP</b>	<b>720</b>

**Total Gas 1,120**

**Total Gas Required 1,120**

### 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	13331	12748	12267	11827	11577	11399	11443	11549	12000	13303	14230	14863	14917	14536	14667	15255	15291	15040	14114	14069	14788	14586	14129	13791





### Daily MW Generation on Friday

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		19	19	17	17	18	19	18	17	19	18	18	18	20	18	19	19	17	19	18	17	17	18	18	18	18	17	17	18	16	18	18	18	17	19	18	18	17	18	17	17	19										
Total Gen		13290	12966	12763	12411	12253	12008	11861	11699	11577	11390	11387	11374	11430	11543	11527	11557	12012	12685	13291	13751	14172	14636	14824	15024	14914	14679	14512	14492	14640	14953	15188	15234	15218	15169	15056	14481	14077	13888	14077	14864	14791	14777	14615	14482	14142	13993	13775	13713			
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	0			
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-28	-28	-30	-30	-29	-29	-29	-29	0	0	0	0	0	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-PLTC		-12	36	44	36	15	16	64	50	29	38	18	48	16	-35	6	23	42	36	17	-29	-29	24	-39	-23	-3	24	6	14	2	-23	-38	-28	-44	-13	45	-39	-9	-15	36	25	31	37	58	82	42	32	13	23			
Interconnection		-41	7	15	7	-14	-14	34	22	0	8	-12	19	-13	-63	-22	-7	12	7	-12	-57	-58	24	-39	-23	-3	-6	-24	-15	-27	-52	-67	-57	-73	-42	16	-67	-37	-44	8	-3	3	7	29	53	13	3	-16	-6			
<b>System Total</b>		13331	12959	12748	12404	12267	12022	11827	11677	11577	11382	11399	11355	11443	11606	11549	11564	12000	12678	13303	13808	14230	14612	14863	15047	14917	14685	14536	14507	14667	15005	15255	15291	15291	15211	15040	14548	14114	13932	14069	14867	14788	14770	14585	14429	14129	13990	13791	13719			
SRev ST-Coal		186	170	215	227	259	237	246	262	233	237	240	234	219	221	182	167	180	191	180	118	132	135	122	136	138	146	131	131	125	127	123	130	135	139	136	137	126	125	128	134	129	136	144	121	90	136	116	130			
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	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		1065	1364	1434	1774	1897	2100	2248	2378	2529	2595	2618	2616	2598	2523	2582	2568	2340	1868	1510	1190	821	397	327	211	312	387	495	511	418	332	274	215	227	249	401	589	1055	1248	925	285	359	363	465	141	580	553	611	327			
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	0
SRev Co-Gen		1	1	3	3	2	1	2	3	1	2	2	2	2	0	2	1	1	3	1	1	3	1	2	3	3	2	3	3	2	2	2	2	2	3	3	2	4	2	2	3	1	2	2	3	2	3	3	1			
Syncon		1203	1203	1203	1203	1203	1203	1203	1203	1052	1203	1203	1354	1354	1354	1268	1268	1268	1180	815	815	628	628	815	1268	1268	1268	1117	1117	840	966	865	764	1142	1142	1142	1142	1142	991	991	991	991	991	1142	1142	1142	1142					
Hydro		132	133	131	132	134	132	135	145	147	140	266	136	264	126	126	125	132	123	125	125	199	523	517	605	612	553	148	152	154	276	238	394	392	306	372	148	126	125	130	226	262	264	261	260	132	133	133	132			
S.Reserve Total		2587	2871	2986	3339	3495	3673	3834	3991	4113	4177	4178	4191	4286	4224	4246	4215	3921	3453	3084	2702	2335	1871	1783	1583	1693	1903	2045	2065	1967	1854	1752	1581	1722	1562	1675	2018	2453	2642	2327	1790	1742	1756	1852	1516	1946	1967	2005	1732			