

## Daily System Generation Summary on Friday

Friday, December 18, 2015

### Availability at Daily Maximum Demand Hour

ST-Coal	1,660 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,333 MW
Hydro	2,012 MW
Distillate	0 MW
<b>Total TNB</b>	<b>8,005 MW</b>
<b>Total IPP</b>	<b>10,026 MW</b>
<b>Total Co-Gen</b>	<b>60 MW</b>
<b>Total System</b>	<b>18,091 MW</b>

### Generation Mix

Type	MWh	Percentage
ST-Coal	35,303	10.90 %
Gas	82,132	25.35 %
Hydro	16,945	5.23 %
<b>Total TNB</b>	<b>134,380</b>	<b>41.48 %</b>
ST-Coal	102,500	31.64 %
ST-Gas	9,119	2.82 %
Gas	77,200	23.83 %
<b>Total IPP</b>	<b>188,819</b>	<b>58.29 %</b>
Co-Gen	1,221	0.38 %
<b>Total Co-Gen</b>	<b>1,221</b>	<b>0.38 %</b>
<b>Total Generation</b>	<b>324,420</b>	<b>100.15 %</b>
PLTG	-161	-0.05 %
HVDC	639	0.20 %
<b>Interconnection</b>	<b>478</b>	<b>0.15 %</b>
<b>Net Energy</b>	<b>323,942</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:	15:30:00 Hour
Total Set On Bus	16,677 MW
TNB Generation	6,657 MW
IPP Generation	8,742 MW
Spinning Reserve	1,224 MW
Maximum Demand	15,440 MW
Net Energy	323,942 MWH
Load Factor	87.42 %

### Fuel Cost

Total Cost:	47,083,282.75 RM
Cost per Unit	15.31 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	475
Hydro	363
Syncon	404
Thermal	89
<b>Total</b>	<b>1,331</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	96
GLGR	55
NPRI	32
PAKA	181
PGPS	38
SRDG	21
TJGS	209
<b>Total TNB</b>	<b>632</b>

KLPP	100
PDPS	11
PGLA	110
PKLG	12
PLPS	99
PTEK	6
SGB3	66
SGRI	165
SKSP	45
PKLG	92
<b>Total IPP</b>	<b>706</b>

**Total Gas 1,338**

**Total Gas Required 1,338**

### 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	12765	12212	11754	11519	11239	11161	11368	11525	11941	13434	14425	15049	15066	14503	14726	15305	15343	15062	14095	14219	14758	14436	13953	13491

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**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
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	-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	HY02	30	36	33	29	31	30	28	23	25	20	28	30	27	35	26	32	31	32	37	28	33	79	85	84
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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		194	207	198	191	194	191	187	193	181	171	186	193	302	269	183	197	194	221	234	581	564	962	1504	1498
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
PCUF	CUFG	25	23	23	23	24	24	23	23	23	24	24	24	23	23	23	22	23	26	26	26	28	27	29	28
PCUF	CUFK	24	28	25	25	27	25	26	27	26	27	26	27	24	27	27	25	28	26	27	26	25	25	26	24
Total Co-Gen		47	51	48	48	51	49	49	50	49	51	50	51	47	48	49	53	52	51	53	53	52	54	51	53
Total Gen		12872	12695	12230	12053	11822	11628	11511	11395	11342	11224	11222	11267	11374	11387	11599	11530	11967	12913	13892	14124	14448	14823	14884	15150
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
TIE-HVDC		30	30	30	30	30	30	30	31	31	30	30	31	31	30	30	31	31	31	31	30	30	31	31	30
TIE-PLTG		77	7	-12	16	37	46	-38	38	72	-6	31	9	-24	-55	43	3	-4	-66	-74	43	-7	28	-18	
Interconnection		107	37	18	47	68	76	-8	67	103	25	61	39	6	-25	74	34	26	-36	-42	74	23	57	-165	
System Total		12765	12568	12212	12066	11754	11552	11519	11328	11239	11199	11161	11228	11368	11412	11525	11496	11941	12949	13434	14050	14425	14766	15049	15191
SRev ST-Coal		105	91	86	88	77	91	66	76	86	82	75	68	96	91	94	98	107	49	58	-30	-24	-3	-18	
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
SRev CCGT-Gas		500	385	745	912	1159	1333	1475	1585	1616	2048	2070	2041	2028	1990	1690	1770	1701	1188	693	550	274	334	263	
SRev ST-Gas		65	68	67	67	66	66	67	67	66	66	68	68	72	72	73	73	72	72	72	72	72	77	79	
SRev Co-Gen		15	9	12	12	9	11	11	10	11	9	10	9	13	12	10	10	12	9	12	11	7	8	9	
Syncon		953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953
Hydro		141	128	137	144	141	144	148	293	154	164	149	142	721	518	152	138	141	265	252	230	272	187	244	
S.Reserve Total		1777	1634	2000	2176	2405	2598	2718	2833	2886	3322	3325	3281	3430	3324	2972	3042	2986	2385	1889	1635	1403	1390	797	