

## Daily System Generation Summary on Thursday

Thursday, December 15, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,199 MW
Hydro	2,135 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,334 MW</b>
<b>Total IPP</b>	<b>14,349 MW</b>
<b>Total Co-Gen</b>	<b>20 MW</b>
<b>Total System</b>	<b>19,703 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	48,455	14.20 %
Hydro	6,086	1.78 %
<b>Total TNB</b>	<b>54,541</b>	<b>15.99 %</b>
ST-Coal	169,760	49.76 %
Gas	117,462	34.43 %
<b>Total IPP</b>	<b>287,222</b>	<b>84.19 %</b>
Co-Gen	434	0.13 %
<b>Total Co-Gen</b>	<b>434</b>	<b>0.13 %</b>
<b>Total Generation</b>	<b>342,197</b>	<b>100.30 %</b>
PLTG	287	0.08 %
HVDC	732	0.21 %
<b>Interconnection</b>	<b>1,019</b>	<b>0.30 %</b>
<b>Net Energy</b>	<b>341,178</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:	16:30:00 Hour
Total Set On Bus	17,574 MW
TNB Generation	2,705 MW
IPP Generation	13,406 MW
Spinning Reserve	1,445 MW
Maximum Demand	16,132 MW
Net Energy	341,178 MWH
Load Factor	88.12 %

### Fuel Cost

Total Cost:	48,843,467.20 RM
Cost per Unit	14.54 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	283
Hydro	211
Syncon	968
Thermal	170
<b>Total</b>	<b>1,632</b>

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
CBPS	51
GLGR	55
PAKA	30
PGPS	51
SRDG	23
TJGS	165
<b>Total TNB</b>	<b>375</b>

CBPS	54
KLPP	100
MPSS	57
NPRI	151
PDPS	9
PGLA	109
PLPS	92
PTEK	26
SGB3	53
SGRI	175
SKSP	58
<b>Total IPP</b>	<b>883</b>

**Total Gas 1,258**

**Total Gas Required 1,258**

### 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	13609	12968	12411	12160	11885	11755	11740	11936	12517	14118	15073	15648	15623	15388	15815	16035	16059	15822	14756	14804	15586	15379	14883	14418

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### Daily MW Generation on Thursday

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	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	-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	HY04	35	36	36	36	36	36	36	36	37	37	37	37	37	37	34	34	34	34	34	34	32	31	32	38
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	7	7	7	7	7	6	6	6
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0	0	0	0	0	0	0	0
Total Hydro		191	194	174	194	196	174	178	195	187	176	175	178	175	176	196	196	176	183	178	212	210	318	424	529
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	CUFK	17	18	18	18	18	19	18	18	17	19	17	18	18	17	19	18	17	18	19	18	19	18	18	18
Total Co-Gen		17	18	18	18	18	19	18	18	17	19	17	18	18	17	19	18	18	18	19	17	17	18	19	18
Total Gen		13727	13289	13006	12754	12435	12354	12218	12044	11895	11692	11786	11843	11775	11979	11994	12098	12537	13423	14151	14776	15098	15513	15656	15867
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	31	31	29	29	30	30	30	31	31	31	31	29	29	31	31	30	31	32	31	31	31	31	31
TIE-PLTG		88	-3	7	2	14	14	28	24	-20	20	0	5	3	8	28	-7	-10	10	1	-60	-6	4	-23	-11
Interconnection		118	27	38	32	44	44	58	54	10	51	31	36	35	37	58	24	20	40	33	-29	25	35	8	
System Total		13609	13262	12968	12722	12411	12310	12160	11990	11885	11841	11755	11807	11740	11942	11936	12074	12517	13383	14118	14805	15073	15478	15648	15846
SRev ST-Coal		154	151	148	141	141	250	248	257	251	249	262	241	251	241	248	245	249	259	258	180	151	133	144	168
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	-2	-9	-25	-27	-26
SRev CCGT-Gas		465	910	908	982	1283	1246	1387	1569	1716	1709	1803	1928	1984	1791	1788	1689	1390	630	366	219	247	278	287	241
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
SRev Co-Gen		3	2	2	2	2	1	2	2	2	3	1	3	2	2	3	1	2	3	2	0	1	3	2	1
Syncon		1080	1080	1080	1080	929	1080	1080	1080	1080	1080	1181	1080	1080	929	929	1080	1080	1080	1080	1080	929	929	929	929
Hydro		106	103	123	103	252	123	119	253	110	121	122	118	122	121	252	252	121	123	128	94	96	235	279	174
S.Reserve Total		1808	2246	2261	2308	2607	2700	2836	3010	3159	3182	3268	3471	3439	3235	3220	3116	2842	2085	1834	1651	1573	1616	1486	1750