

## Daily System Generation Summary on Thursday

Thursday, October 13, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,905 MW
Hydro	2,421 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,326 MW</b>
<b>Total IPP</b>	<b>13,623 MW</b>
<b>Total Co-Gen</b>	<b>40 MW</b>
<b>Total System</b>	<b>18,989 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	62,061	17.41 %
Hydro	11,280	3.16 %
<b>Total TNB</b>	<b>73,341</b>	<b>20.57 %</b>
ST-Coal	190,227	53.35 %
ST-Gas	10,447	2.93 %
Gas	80,646	22.62 %
<b>Total IPP</b>	<b>281,320</b>	<b>78.90 %</b>
Co-Gen	1,158	0.32 %
<b>Total Co-Gen</b>	<b>1,158</b>	<b>0.32 %</b>
<b>Total Generation</b>	<b>355,819</b>	<b>99.80 %</b>
PLTG	-32	-0.01 %
HVDC	-697	-0.20 %
<b>Interconnection</b>	<b>-729</b>	<b>-0.20 %</b>
<b>Net Energy</b>	<b>356,548</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	18,503 MW
TNB Generation	3,844 MW
IPP Generation	12,887 MW
Spinning Reserve	1,726 MW
Maximum Demand	16,813 MW
Net Energy	356,548 MWH
Load Factor	88.36 %

### Fuel Cost

Total Cost:	50,907,378.50 RM
Cost per Unit	14.78 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	386
Hydro	346
Syncon	1,003
Thermal	123
<b>Total</b>	<b>1,858</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	25

### Gas Usage

Station	(mmscfd)
CBPS	7
GLGR	14
PAKA	196
PGPS	18
SRDG	28
TJGS	216
<b>Total TNB</b>	<b>478</b>
KLPP	108
MPSS	57
NPRI	148
PDPS	37
PGLA	57
PKLG	16
PTEK	44
SGRI	179
PKLG	104
<b>Total IPP</b>	<b>750</b>
<b>Total Gas</b>	<b>1,229</b>
<b>Total Gas Required</b>	<b>1,229</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	14477	13810	13228	12907	12577	12383	12582	12355	12842	14684	15410	16094	16116	15972	16479	16785	16813	16423	15369	15402	16299	16073	15549	15176

### 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
JMAH	U001	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690
JMAH	U002	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695
JMJC	U001	673	677	677	673	676	678	676	675	677	684	674	678	675	677	679	676	677	686	682	673	673	686	672	683
JMJC	U002	681	673	672	677	677	674	678	675	671	675	683	675	674	676	678	674	672	676	676	677	677	675	675	675
JMJC	U003	673	670	671	670	663	673	668	671	672	668	672	671	671	667	673	671	671	671	672	668	667	666	671	660
JMJC	U004	904	903	905	833	746	705	609	595	510	505	504	505	507	510	506	506	508	507	505	505	505	622	743	751
PKLG	U004	279	281	281	280	281	281	279	279	276	276	276	278	278	280	280	280	280	278	280	282	281	281	281	278
PKLG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	U006	470	467	470	470	470	471	467	467	475	475	472	468	472	472	469	473	470	470	474	474	470	471	475	474
TBIN	U001	690	687	688	690	688	689	689	689	690	691	688	689	687	687	689	690	688	688	688	689	687	687	688	689
TBIN	U002	693	692	692	690	692	690	692	693	692	692	692	693	691	692	693	693	691	691	693	691	691	692	692	692
TBIN	U003	690	690	691	692	690	690	689	690	691	690	690	689	689	690	690	689	691	690	689	691	689	687	687	691
TBIN	U004	901	902	901	903	902	902	902	903	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902
Total ST-Coal		8039	8027	8033	7963	7870	7838	7734	7722	7633	7642	7641	7637	7631	7639	7643	7635	7640	7645	7637	7639	7635	7767	7864	7895
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	U001	143	144	144	144	144	144	144	144	144	144	144	144	144	202	264	276	282	282	268	264	265	265	265	265
PKLG	U002	230	163	147	145	145	145	145	145	146	146	145	145	201	269	275	281	282	282	282	282	284	284	284	284
Total ST-Gas		373	307	291	289	289	289	289	289	289	290	290	289	289	289	403	533	551	563	564	550	546	547	547	549
CBPS	GT1A	88	87	87	87	87	87	87	88	87	88	87	88	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	ST1C	40	40	40	40	40	40	40	40	40	40	40	40	0	0	0	0	0	0	0	0	0	0	0	0
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	86	112	112	111	112	112	112	111	104	103	102	
KLPP	GT13	140	140	104	104	105	70	71	70	70	70	69	71	70	104	119	144	142	152	152	152	152	152	152	152
KLPP	GT14	143	143	143	143	115	115	91	91	83	83	83	83	83	83	83	83	125	158	158	158	158	158	158	158
KLPP	GT15	137	137	119	119	119	82	77	79	79	83	78	80	79	79	80	79	79	80	79	81	133	141	128	
KLPP	ST17	203	204	183	182	182	151	146	145	145	145	142	146	142	138	154	186	202	200	203	203	203	202	202	198
MPSS	GT01	102	66	69	67	68	68	67	68	67	67	68	68	69	70	69	69	69	101	98	101	100	100	102	99
MPSS	GT02	102	68	70	71	69	70	71	72	69	70	71	71	71	72	69	73	71	101	99	101	100	99	101	99
MPSS	ST01	106	71	66	66	65	65	65	65	65	65	65	65	65	64	64	64	102	103	103	103	104	104	104	104
NPRI	BLK1	467	487	434	504	418	423	400	380	385	370	356	362	408	511	361	364	488	530	528	377	520	541	530	533
NPRI	BLK2	478	493	441	504	424	424	404	380	385	369	363	362	408	513	364	364	489	529	530	376	523	543	532	538
PAKA	GT1A	90	89	89	65	66	65	65	64	65	65	65	66	65	65	66	65	90	88	87	87	87	87	87	87
PAKA	GT1B	91	91	91	64	64	66	65	66	63	65	64	64	66	64	65	65	92	90	90	88	89	88	88	88
PAKA	ST1C	80	81	81	70	67	67	67	67	67	66	67	67	67	67	67	67	81	81	81	81	81	81	81	81
PAKA	GT2A	88	88	88	65	65	65	65	65	64	65	65	65	65	65	65	65	88	87	85	86	86	85	85	85
PAKA	GT2B	92	92	91	64	65	65	65	64	63	63	64	64	65	64	64	64	91	90	89	89	89	88	88	87
PAKA	ST2C	89	89	89	77	76	75	75	75	75	75	75	75	75	75	75	75	89	89	89	89	89	89	89	89
PAKA	GT3A	88	88	87	65	66	66	65	66	64	65	65	65	66	65	66	66	86	86	86	86	86	85	85	85
PAKA	GT3B	88	88	88	64	64	66	65	65	64	64	64	64	64	64	65	64	88	86	86	86	85	85	85	85
PAKA	ST3C	89	89	89	77	76	76	76	76	76	76	76	76	76	76	75	76	89	89	89	89	89	89	89	89
PAKA	GT4A	94	94	94	95	95	94	95	95	94	95	95	95	95	95	95	95	94	94	93	93	93	93	93	93
PAKA	GT4B	81	81	80	80	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
PAKA	ST4C	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
PCLA	CT12	207	222	155	221	221	222	221	221	221	221	222	221	222	221	222	221	222	221	222	221	222	221	222	221
PGLA	ST10	110	105	96	105	114	115	115	114	114	114	114	114	115	112	112	112	113	114	114	117	116	116	115	
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	60	79	79	80	79	79	79	79	79	79	79	79
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	32	44	44	45	45	46	
SGRI	CT11	135	107	104	67	64	66	66	64	65	65	65	65	65	66	66	66	108	133	132	132	138	135	134	

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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
SGRI	GT12	148	111	111	72	72	71	71	71	71	71	71	71	136	136	136	136	136	136	136	136	136	136	136	137
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	49	137	137	135	135	136	136	136	136	136	136	136
SGRI	ST14	152	130	135	109	98	96	94	97	97	95	99	99	96	96	96	116	144	212	213	214	214	212	212	213
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	50	135	135	135	139	135	136	136	136	136	135
SGRI	GT22	141	116	116	70	70	71	71	71	71	71	71	71	110	132	130	130	139	131	130	131	131	131	131	132
SGRI	GT23	137	109	109	66	66	64	64	65	65	64	64	65	65	65	65	65	65	65	65	65	65	65	65	65
SGRI	ST24	178	137	137	115	100	97	99	100	98	97	97	97	98	98	97	97	131	143	213	213	216	209	212	215
TJGS	GT1A	220	223	217	223	223	223	217	204	226	216	196	194	225	218	215	189	225	226	222	224	217	227	222	226
TJGS	GT1B	211	212	209	213	217	216	210	199	214	207	184	187	214	210	203	183	215	217	216	214	209	217	209	216
TJGS	ST1C	252	246	249	250	253	249	253	240	247	219	234	231	246	250	242	222	250	250	254	240	251	255	251	251
TJGS	GT2A	217	216	217	217	217	215	215	143	143	143	143	143	143	143	143	143	143	143	142	145	214	214	214	
TJGS	GT2B	217	218	214	217	218	217	212	141	141	142	142	140	142	142	143	141	141	211	211	211	209	211	211	211
TJGS	ST2C	263	261	261	263	263	262	262	217	215	217	217	215	217	217	256	256	256	256	256	259	259	259	259	259
<b>Total CCGT-Gas</b>		<b>5655</b>	<b>5410</b>	<b>5144</b>	<b>4972</b>	<b>4764</b>	<b>4657</b>	<b>4565</b>	<b>4302</b>	<b>4329</b>	<b>4262</b>	<b>4214</b>	<b>4218</b>	<b>4389</b>	<b>4520</b>	<b>4211</b>	<b>4154</b>	<b>4550</b>	<b>5372</b>	<b>5810</b>	<b>5809</b>	<b>6147</b>	<b>6276</b>	<b>6234</b>	
PDPS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	GT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	GT09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total CCGT-Gas</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
BSIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRC	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
HTRC	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
KNRG	HY02	23	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
KNYR	HY01	96	96	96	96	97	97	96	96	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY02	61	61	64	63	68	64	62	69	61	69	62	64	65	79	61	64	78	102	93	65	61	100	76	100
KNYR	HY03	96	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	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
LPIA	HY01	11	11	11	12	12	12	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
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
SIHY	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
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

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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
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	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	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
TMGR	HY04	35	35	34	36	35	35	36	34	34	36	36	35	36	36	34	34	34	37	39	34	34	39	36	37
UJLI	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
UJLI	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
UPIA	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
Total Hydro		348	252	254	256	261	257	257	262	280	189	183	156	165	179	155	158	171	199	495	420	440	524	435	496
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	34	33	32	33	34	33	32	34	34	34	34	33	32	33	32	33	32	29	30	29	29	28	29	28
PCUF	CUFK	17	17	18	16	19	18	17	18	17	17	17	18	18	19	18	18	17	18	18	17	19	19	18	19
Total Co-Gen		51	50	50	49	53	51	49	52	51	51	51	52	51	51	50	51	52	50	47	47	48	47	46	47
Total Gen		14466	14046	13772	13529	13237	13062	12894	12627	12582	12433	12378	12353	12526	12678	12348	12287	12816	13799	14617	15059	15355	15820	16069	16308
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		-29	-28	-28	-30	-29	-29	-29	-28	-28	-30	-30	-28	-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		18	3	-9	11	39	6	16	7	33	49	23	33	-26	-10	21	-19	4	-36	-39	-47	-25	-61	4	
Interconnection		-11	-25	-38	-19	9	-23	-13	-22	5	21	-5	4	-56	-38	-7	-49	-26	-66	-67	-76	-55	-90	-25	
System Total		14477	14071	13810	13548	13228	13115	12907	12649	12577	12412	12383	12349	12582	12716	12355	12336	12842	13865	14684	15135	15410	15910	16094	16367
SRev ST-Coal		174	186	180	250	343	375	479	491	580	571	572	576	582	134	130	138	133	128	136	134	138	6	149	
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		205	450	716	888	1096	1203	1295	1558	1531	1598	1646	1642	1471	1288	1597	1654	1258	436	520	521	227	98	140	
SRev ST-Gas		40	34	34	33	33	33	33	34	34	34	34	33	33	74	74	75	81	31	13	1	0	14	18	
SRev Co-Gen		-11	-10	-10	-9	-13	-11	-9	-12	-11	-11	-11	-12	-11	-10	-11	-12	-10	-7	-7	-8	-7	-6	-7	
Syncon		1251	1352	1352	1352	1352	1352	1352	1201	1352	1201	1353	1352	1352	1352	1352	1251	1251	1100	1100	1251	1251	1251	1251	
Hydro		146	141	139	137	132	136	136	131	264	104	261	136	128	114	138	135	122	94	99	174	305	221	159	
S.Reserve Total		1605	2153	2411	2651	2943	3088	3286	3554	3599	3748	3803	3828	3655	3051	3381	3443	3034	2131	2153	2050	1798	1438	1769	