

## Daily System Generation Summary on Monday

Monday, December 21, 2015

### Availability at Daily Maximum Demand Hour

ST-Coal	1,580 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,425 MW
Hydro	2,143 MW
Distillate	0 MW
Total TNB	<u>8,148 MW</u>
Total IPP	<u>9,968 MW</u>
Total Co-Gen	<u>0 MW</u>
Total System	<u>18,116 MW</u>

### Generation Mix

Type	MWh	Percentage
ST-Coal	33,389	10.17 %
Gas	76,106	23.18 %
Hydro	23,770	7.24 %
<b>Total TNB</b>	<b>133,265</b>	<b>40.59 %</b>
ST-Coal	102,275	31.15 %
ST-Gas	1,282	0.39 %
ST-Oil	9,705	2.96 %
Gas	72,403	22.05 %
Distillate	8,563	2.61 %
<b>Total IPP</b>	<b>194,228</b>	<b>59.15 %</b>
Co-Gen	1,231	0.37 %
<b>Total Co-Gen</b>	<b>1,231</b>	<b>0.37 %</b>
<b>Total Generation</b>	<b>328,724</b>	<b>100.11 %</b>
PLTG	213	0.06 %
EGAT	-3	0.00 %
HVDC	160	0.05 %
<b>Interconnection</b>	<b>370</b>	<b>0.11 %</b>
<b>Net Energy</b>	<b>328,354</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:	15:00:00 Hour
Total Set On Bus	17,166 MW
TNB Generation	6,767 MW
IPP Generation	9,135 MW
Spinning Reserve	1,214 MW
Maximum Demand	16,163 MW
Net Energy	328,354 MWH
Load Factor	84.65 %

### Fuel Cost

Total Cost:	50,630,231.75 RM
Cost per Unit	16.60 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	506
Hydro	295
Syncon	272
Thermal	106
<b>Total</b>	<b>1,179</b>

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	42
GLGR	56
NPRI	48
PAKA	172
PGGS	10
PGPS	26
SRDG	25
TJGS	214
<b>Total TNB</b>	<b>593</b>

KLPP	105
PDPS	2
PGLA	112
PKLG	9
PLPS	93
PTEK	20
SGB3	53
SGRI	146
SKSP	39
PKLG	13
<b>Total IPP</b>	<b>591</b>

<b>Total Gas</b>	<b>1,185</b>
<b>Total Gas Required</b>	<b>1,357</b>

### Alternate Fuel Usage

Station	(mmscfd)
PDPS	19
KLPP	7
SGB3	34
SGRI	17
PKLG	95
<b>Total</b>	<b>172</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	12376	11880	11384	11069	10699	10691	10707	11040	11845	13792	14871	15578	15587	15124	15729	16163	16162	15768	14622	14478	15073	14948	14322	14084

Daily MW Generation on Monday

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	689	693	693	706	697	693	695	694	695	671	670	670	666	670	669	696	698	701	707	702	700	696	702	705	699	693	699	704	702	700	711	696	696	699	701	706	700	701	703	701	702	699	699	700	703	699	699			
JMAH	U002	703	705	702	707	706	704	701	703	702	672	675	672	674	668	672	703	705	702	703	700	705	704	705	702	702	702	703	698	701	701	700	705	701	698	699	701	702	705	703	701	705	702	701	707	700	705	704	703		
JMGG	U002	545	545	543	543	540	553	545	545	545	543	542	544	546	542	547	548	568	563	562	565	564	564	568	563	564	564	565	557	569	560	565	564	563	566	571	568	565	564	563	566	563	568	569	564	563	567	562	566		
JMGG	U004	791	791	789	789	788	791	788	791	788	788	788	788	788	788	790	791	788	788	860	859	862	861	860	860	861	859	862	861	862	859	862	861	860	860	858	860	858	860	857	861	858	862	858	858	857	854	858	857	862	
PKLG	U003	282	281	283	283	283	283	281	279	274	281	283	283	283	281	281	281	281	283	283	287	283	281	283	280	272	276	278	280	279	282	282	283	281	283	277	281	281	281	283	281	281	281	281	281	281	281	281	277		
PKLG	U004	280	280	280	282	279	279	279	277	278	278	282	280	279	279	281	280	279	278	282	280	279	280	281	281	274	276	277	274	279	279	280	279	281	280	281	281	281	280	278	279	278	278	280	280	280	280	280	280	281	259
PKLG	U005	454	468	467	468	468	468	468	471	407	404	407	406	407	458	469	469	469	469	469	465	469	469	465	465	467	469	469	472	469	469	473	466	467	466	466	466	466	469	469	469	469	469	469	469	469	469	469	469	466	
PKLG	U006	466	465	465	474	472	466	469	466	466	408	406	406	406	408	456	460	464	461	461	464	465	464	464	467	467	469	463	464	464	467	468	468	468	468	468	468	465	469	468	468	467	468	468	468	468	468	468	468	468	468
TBIN	U001	699	704	697	701	701	699	697	700	697	670	671	670	669	668	669	699	695	696	697	696	697	697	694	699	698	698	692	695	707	698	696	697	697	699	694	696	699	698	699	698	698	697	695	696	692	697	692	697	692	
TBIN	U003	703	702	700	705	704	572	598	701	701	674	673	672	671	670	673	700	703	700	700	702	702	702	703	703	702	701	701	698	700	703	703	700	700	701	704	704	699	700	705	700	700	702	703	701	701	706	703	699	699	
Total ST-Coal		5622	5634	5621	5658	5638	5508	5521	5624	5617	5392	5395	5393	5389	5381	5496	5627	5650	5636	5718	5721	5732	5724	5717	5725	5720	5709	5701	5696	5735	5717	5728	5732	5716	5713	5722	5721	5729	5720	5728	5722	5727	5725	5720	5722	5681	5717	5699	5697		
PKLG	U001	0	0	0	0	0	234	244	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246	246		
PKLG	U002	0	0	0	0	0	136	146	208	256	260	259	260	258	258	234	230	230	231	230	231	230	230	231	231	229	230	230	226	227	210	202	202	202	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	
Total ST-Oil		0	0	0	0	0	234	380	392	454	502	506	506	504	504	504	480	476	476	477	476	477	477	475	475	475	475	477	477	475	476	476	472	473	473	473	456	448	447	447	449	449	449	449	447	447	447	447	447		
PKLG	U001	196	203	194	200	204	205	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		
PKLG	U002	202	202	204	202	202	202	148	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		
Total ST-Gas		398	405	398	402	406	407	148	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		
CBPS	GT1A	0	0	0	9	8	38	38	66	97	98	98	98	98	98	98	98	88	82	81	82	89	96	96	94	94	94	94	94	94	93	93	93	93	93	93	96	96	96	96	96	96	96	96	96	96	96	96	96		
CBPS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	18	52	67	76	92	92	92	92	92	90	91	90	90	90	91	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
CBPS	ST1C	0	0	0	0	0	5	45	47	48	48	48	48	48	48	48	48	48	42	39	38	37	82	98	100	99	97	98	96	95	96	94	95	95	99	100	99	100	101	101	101	102	102	101	101	101	101	101	101	101	102
GLGR	GT01	109	109	90	69	69	70	68	70	67	68	68	68	68	68	69	67	89	109	109	108	109	110	108	110	108	108	108	109	105	106	106	106	107	105	106	105	107	103	105	109	109	107	110	109	109	109	109	109	109	109
GLGR	GT02	111	110	90	68	68	69	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68		
GLGR	ST1C	97	98	89	71	70	70	71	70	70	70	70	69	70	70	70	78	98	98	98	98	98	98	98	99	99	98	97	96	94	96	96	96	96	96	95	96	96	96	99	99	98	98	98	98	98	98	98	98		
KLPP	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	10	17	27	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
KLPP	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	6	16	16	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
KLPP	GT13	137	104	103	95	70	70	70	69	70	69	69	69	69	70	71	117	136	136	140	140	141	136	136	137	137	142	141	141	141	135	137	136	137	137	125	27	124	0	0	0	0	0	0	0	0	0	0	0		
KLPP	GT14	126	126	126	103	103	78	78	78	78	78	78	78	78	78	78	78	125	125	151	151	151	151	152	152	152	152	151	151	151	151	152	152	152	152	152	102	102	142	142	145	145	153	153	153	153	153	153	153	153	
KLPP	GT15	148	116	115	104	78	78	77	77	76	76	77	77	78	78																																				

Daily MW Generation on Monday

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
PLPS	GT11	140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT12	126	144	144	121	126	119	116	65	65	68	69	64	65	75	69	114	122	140	142	141	142	142	142	142
PLPS	GT13	139	142	142	121	116	108	106	96	64	62	63	58	61	68	65	79	111	131	145	143	142	144	143	143
PLPS	ST18	211	164	144	138	133	133	132	121	95	95	91	92	94	100	101	117	133	210	214	214	213	213	214	213
SGB3	GT31	64	64	64	64	63	63	63	63	63	63	63	63	63	62	62	63	114	107	107	107	109	108	114	108
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT33	104	117	117	80	66	66	66	66	65	65	65	65	65	65	66	65	117	110	110	108	111	110	106	95
SGB3	ST34	113	113	118	110	94	94	94	94	92	92	92	92	92	92	92	99	142	142	138	199	203	203	199	171
SGRI	GT11	113	139	139	127	141	130	129	65	64	65	63	63	63	61	108	112	114	141	122	113	119	121	137	137
SGRI	GT12	155	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT13	113	138	137	130	137	130	130	63	63	63	62	62	62	62	63	83	107	115	139	119	112	122	121	136
SGRI	ST14	207	178	152	143	150	143	145	96	95	92	95	95	94	95	90	117	143	137	216	211	202	202	196	219
SGRI	GT21	113	132	121	110	130	115	114	111	63	63	64	64	63	63	63	64	120	113	114	114	124	129	132	131
SGRI	GT23	113	134	123	115	123	113	113	88	63	63	63	63	63	63	63	63	120	112	114	115	124	128	148	141
SGRI	ST24	134	141	139	129	136	133	133	135	93	93	88	92	91	92	93	92	92	133	131	131	131	137	139	152
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	226	226	226	206	216	227	227	195	195	206	199	193	207	232	223	192	218	238	230	224	224	224	224	221
TJGS	GT1B	218	218	218	218	193	209	213	185	185	191	187	184	196	221	210	182	215	219	207	212	216	216	216	213
TJGS	ST1C	258	258	258	247	235	242	254	224	224	238	226	226	230	255	246	233	242	256	252	252	256	256	256	256
TJGS	GT2A	225	220	214	165	138	138	137	137	137	137	137	137	140	189	189	223	223	203	220	218	215	215	215	215
TJGS	GT2B	220	216	209	162	133	133	133	133	132	131	134	133	133	137	185	185	218	219	196	220	220	217	217	214
TJGS	ST2C	262	251	258	240	211	211	211	211	211	211	211	211	211	238	238	260	263	252	261	264	264	264	264	264
Total CCGT-Gas		6191	5800	5617	5155	4980	4945	4948	4602	4465	4500	4476	4459	4543	4657	4730	4917	5380	6338	6967	7017	7350	7523	7560	7449
PDP5	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
PDP5	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
PGGS	GT6A	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	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
Total 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
BSIA	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
BSIA	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
BSIA	HY03	10	12	12	10	12	11	11	10	11	11	11	11	12	12	10	11	23	23	23	23	23	23	23	23
CEND	HY01	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9	9	10	10	10	10	10	10	10
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY04	8	7	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	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
HTRG	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	HY01	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
KNRG	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
KNRG	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
KNYR	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
KNYR	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
KNYR	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



**Daily MW Generation on Monday**

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																								
S.Reserve Total		1397	1582	1566	2045	2182	2335	2357	2686	2745	2885	2873	2884	2531	2701	2677	2416	2645	1766	1511	1350	1297	1239	1027	1010	1002	994	1130	712	992	811	1214	1085	992	1035	1209	1178	1356	1581	1406	902	1062	1125	1120	1081	1339	1018	1027	1193