

## Daily System Generation Summary on Tuesday

Tuesday, January 12, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	2,930 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,540 MW
Hydro	2,105 MW
Distillate	0 MW
<b>Total TNB</b>	<b>8,575 MW</b>
<b>Total IPP</b>	<b>10,577 MW</b>
<b>Total Co-Gen</b>	<b>33 MW</b>
<b>Total System</b>	<b>19,185 MW</b>

### Generation Mix

Type	MWh	Percentage
ST-Coal	68,749	19.72 %
Gas	69,017	19.80 %
Hydro	8,589	2.46 %
<b>Total TNB</b>	<b>146,355</b>	<b>41.98 %</b>
ST-Coal	100,853	28.93 %
ST-Gas	10,466	3.00 %
Gas	89,985	25.81 %
<b>Total IPP</b>	<b>201,304</b>	<b>57.74 %</b>
Co-Gen	740	0.21 %
<b>Total Co-Gen</b>	<b>740</b>	<b>0.21 %</b>
<b>Total Generation</b>	<b>348,399</b>	<b>99.94 %</b>
PLTG	567	0.16 %
EGAT	-33	-0.01 %
HVDC	-759	-0.22 %
<b>Interconnection</b>	<b>-225</b>	<b>-0.06 %</b>
<b>Net Energy</b>	<b>348,624</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:	16:00:00 Hour
Total Set On Bus	17,918 MW
TNB Generation	6,737 MW
IPP Generation	9,878 MW
Spinning Reserve	1,274 MW
Maximum Demand	16,641 MW
Net Energy	348,624 MWH
Load Factor	87.29 %

### Fuel Cost

Total Cost:	50,845,038.15 RM
Cost per Unit	14.96 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	412
Hydro	312
Syncon	691
Thermal	73
<b>Total</b>	<b>1,488</b>

### Time Weather Temperature

Time	Weather	Temperature
Afternoon	Sunny	31
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
CBPS	69
GLGR	54
PAKA	179
PGPS	51
SRDG	18
TJGS	160
<b>Total TNB</b>	<b>530</b>
KLPP	108
MPSS	31
PDPS	38
PGLA	113
PKLG	15
PLPS	95
PTEK	42
SGB3	33
SGRI	192
SKSP	51
PKLG	103
<b>Total IPP</b>	<b>821</b>
<b>Total Gas</b>	<b>1,351</b>
<b>Total Gas Required</b>	<b>1,351</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	13958	13441	12888	12537	12105	12038	12243	12235	12719	14330	15419	15951	15855	15638	16265	16574	16641	16181	14809	14606	15748	15658	15239	14950

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Checked By: Abu Bakar bin K.K. Ibrahim

Printed on: Wednesday, January 13, 2016 8:07:48 AM  
 (Gurcharan Singh)  
 Pengurus Besar Kanan  
 Jabatan Sistem Operasi

**Daily MW Generation on Tuesday**

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	701	701	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703	703
JMAH	U002	701	700	705	704	703	704	703	703	703	705	705	705	705	702	703	703	705	705	705	703	703	703	703	705
JMJG	U001	682	682	681	682	683	683	685	682	680	681	683	682	679	682	682	682	682	682	682	682	682	682	682	682
JMJG	U002	678	679	673	678	680	674	677	679	681	678	679	679	680	679	660	677	678	677	678	676	677	679	675	683
JMJG	U003	677	676	675	678	676	673	672	677	673	673	675	673	673	670	673	677	673	676	681	671	677	685	679	673
JMJG	U004	854	856	791	789	790	790	791	790	791	788	789	790	791	792	790	787	787	791	793	855	862	858	860	861
PKLG	U003	283	280	283	283	279	280	283	286	279	275	275	277	275	281	276	276	285	281	280	278	283	279	283	281
PKLG	U004	276	276	278	274	278	279	278	281	282	282	282	280	282	280	281	279	279	279	280	281	280	277	276	277
PKLG	U005	466	467	467	469	467	467	467	466	466	468	468	467	467	470	467	467	466	468	469	471	467	468	469	471
TBDN	U001	692	696	697	696	695	691	697	696	696	699	696	696	699	696	697	696	698	699	693	697	700	696	697	695
TBDN	U003	698	700	703	710	700	703	700	701	702	703	699	700	699	701	701	700	700	701	703	699	699	700	704	698
TBDN	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	125	158	148	255	259	685	270	281	289	412	
Total ST-Coal		6708	6713	6654	6666	6652	6645	6656	6662	6653	6655	6653	6652	6646	6664	6627	6645	6655	6780	6797	6860	6993	6979	7014	
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	284	284	284	238	160	147	147	147	147	147	147	147	147	147	181	261	280	282	284	284	284	224	226	
PKLG	U002	0	0	0	0	20	53	68	91	137	147	151	147	146	146	176	256	268	272	276	280	282	282	286	
Total ST-Gas		284	284	284	238	160	167	200	215	238	284	294	298	293	293	357	517	548	554	560	564	566	566	550	
CBPS	GT1B	93	93	93	93	87	87	88	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	
CBPS	ST1C	46	45	45	43	39	39	39	40	38	40	38	39	39	39	39	40	40	40	39	41	41	41	41	
CBPS	BLK2	201	199	199	199	199	201	200	197	199	199	199	200	201	201	202	199	200	198	386	385	377	373	375	
GLGR	GT01	109	109	107	109	108	67	69	71	69	67	68	69	69	71	67	70	94	108	106	108	108	106	106	
GLGR	GT02	106	106	106	107	106	67	67	66	65	66	69	68	67	66	67	68	93	106	106	106	107	106	106	
GLGR	ST1C	96	97	96	97	97	77	71	71	70	71	70	71	70	70	79	96	96	97	97	97	97	96	96	
KLPP	GT11	25	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	31	31	31	31	31	
KLPP	GT12	25	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	18	18	18	18	18	18	
KLPP	GT13	136	137	136	137	134	135	108	107	107	106	106	107	107	107	108	107	135	133	136	136	137	136	136	
KLPP	GT14	151	151	151	151	0	0	0	0	0	0	0	0	0	150	150	150	150	150	150	150	150	150	150	
KLPP	GT15	152	150	150	147	147	145	120	118	118	118	116	118	118	118	145	145	145	145	151	153	151	151	149	
KLPP	ST17	227	218	201	188	132	129	120	122	119	118	119	118	119	119	127	122	188	196	193	220	227	228	228	
MPSS	GT01	106	108	108	107	106	106	107	108	108	108	108	108	107	107	108	108	106	106	105	103	103	102	102	
MPSS	ST01	48	48	48	49	49	49	49	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	
PAKA	GT1A	88	88	88	88	67	66	66	66	66	65	66	65	66	67	64	66	66	90	88	88	86	86	85	
PAKA	GT1B	90	89	89	89	65	65	65	65	65	65	65	65	66	63	65	66	92	90	89	88	88	88	88	
PAKA	ST1C	75	76	75	76	65	64	64	64	64	64	64	64	64	64	75	75	75	75	75	75	75	75	75	
PAKA	GT2A	88	87	88	88	89	90	90	90	90	90	90	90	91	91	92	90	89	89	87	87	87	86	86	
PAKA	GT2B	87	87	87	87	88	89	88	89	89	89	89	89	89	89	89	89	88	88	88	88	87	87	87	
PAKA	ST2C	87	87	87	88	88	88	88	88	88	88	88	88	88	88	88	87	87	88	88	87	87	87	87	
PAKA	GT3A	89	89	89	89	90	90	91	91	91	91	91	91	91	91	91	90	89	85	88	87	87	87	87	
PAKA	ST3C	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
PAKA	GT4A	95	95	94	94	95	95	95	95	95	95	95	95	95	94	94	93	94	93	94	93	93	93	93	
PAKA	GT4B	82	82	83	82	84	84	84	84	83	83	83	83	83	84	84	83	82	82	81	81	81	81	81	
PAKA	ST4C	93	92	92	92	92	91	91	91	91	91	91	91	91	91	91	92	92	92	92	92	92	92	92	
PGLA	GT11	178	192	182	181	227	228	224	216	172	206	177	208	212	214	229	189	235	232	232	232	230	226	225	
PGLA	GT12	181	194	185	184	229	230	225	220	175	212	180	213	216	218	233	193	216	229	228	228	227	225	224	
PGLA	ST10	212	218	211	214	249	247	237	240	207	228	210	221	241	243	236	223	243	250	252	252	252	250	250	
PGPS	GT3A	96	96	96	95	83	82	82	83	82	83	83	83	83	82	83	83	83	83	83	83	83	83	83	
PGPS	GT3B	96	96	96	96	84	84	83	83	83	83	83	83	83	83	84	83	84	83	84	83	84	83	84	



**Daily MW Generation on Tuesday**

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	
LPIA	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	
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
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	25	30	32	26	26	31	29	34	26	30	28	30	31	31	29	30	40	32	38	87	35	36	29	35	30
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	
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	
UPIA	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		158	143	141	184	217	204	166	176	164	197	162	171	168	176	194	168	177	169	226	414	398	579	548	559	
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	2	3	4	3	3	2	4	4	3	3	3	3	4	3	4	5	3	3	4	2	3	3	2	4	
PCUF	CUFK	28	27	29	29	28	29	29	31	30	29	30	31	30	32	30	30	31	29	29	29	29	30	26	27	
Total Co-Gen		30	30	33	32	31	31	33	35	33	32	33	34	33	36	33	34	36	32	32	33	31	33	29	29	
Total Gen		13965	13725	13432	13136	12860	12699	12525	12376	12104	12178	12035	12137	12240	12362	12262	12117	12650	13673	14312	15081	15395	15612	15913		
TIE-EGAT		-1	-1	-1	-1	-1	-1	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
TIE-HVDC		-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-32	-32	-31	-31	-31	-31	-31	-31	-31	-31	-31		
TIE-PLTG		41	60	25	21	7	53	22	25	33	16	31	46	31	-5	61	-16	-37	46	15	22	8	-33	-5		
Interconnection		7	25	-9	-14	-28	19	-12	-9	-1	-19	-3	12	-3	-39	27	-49	-69	13	-18	-11	-24	-66	-38		
System Total		13958	13700	13441	13150	12888	12680	12537	12385	12105	12197	12038	12125	12243	12401	12235	12166	12719	13660	14330	15092	15419	15678	15951		
SRev ST-Coal		49	44	103	91	105	112	101	95	104	102	104	105	111	93	130	112	102	177	160	97	54	68	33		
SRev OCGT-Gas		152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	2	106	17	138	22		
SRev CCGT-Gas		515	397	345	232	303	451	633	815	1087	1093	1210	1121	1004	910	988	1126	878	331	321	380	267	228	236		
SRev ST-Gas		1	1	1	43	38	67	69	70	71	75	75	75	75	75	75	80	53	22	16	10	6	4	4		
SRev Co-Gen		3	3	0	1	2	2	0	-2	0	1	0	-1	0	-3	0	-1	-3	1	1	0	2	0	4		
Syncon		953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953	953		
Hydro		145	140	142	99	66	79	117	107	139	257	141	132	135	127	260	135	126	134	77	290	306	125	156		
S.Reserve Total		1818	1538	1544	1419	1467	1664	1873	2038	2354	2330	2483	2385	2278	2155	2255	2400	2136	1649	1534	1667	1443	1335	1252		