



## Daily System Generation Summary on Tuesday

Tuesday, October 04, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,123 MW
Hydro	2,296 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,419 MW</b>
<b>Total IPP</b>	<b>13,724 MW</b>
<b>Total Co-Gen</b>	<b>20 MW</b>
<b>Total System</b>	<b>19,163 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	62,705	17.73 %
Hydro	8,782	2.48 %
<b>Total TNB</b>	<b>71,487</b>	<b>20.21 %</b>
ST-Coal	175,289	49.55 %
ST-Gas	4,770	1.35 %
Gas	102,257	28.91 %
<b>Total IPP</b>	<b>282,316</b>	<b>79.81 %</b>
Co-Gen	425	0.12 %
<b>Total Co-Gen</b>	<b>425</b>	<b>0.12 %</b>
<b>Total Generation</b>	<b>354,228</b>	<b>100.14 %</b>
PLTG	-227	-0.06 %
HVDC	719	0.20 %
<b>Interconnection</b>	<b>492</b>	<b>0.14 %</b>
<b>Net Energy</b>	<b>353,736</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	18,825 MW
TNB Generation	3,764 MW
IPP Generation	13,213 MW
Spinning Reserve	1,830 MW
Maximum Demand	16,964 MW
Net Energy	353,736 MWH
Load Factor	86.88 %

### Fuel Cost

### Average Spinning Reserve During Peak Hour

Type	MW
GT	276
Hydro	312
Syncon	1,088
Thermal	136
<b>Total</b>	<b>1,812</b>

Time	Weather	Temperature
Afternoon	Cloudy	35
Morning	Cloudy	28

### Gas Usage

Station	(mmscfd)
CBPS	7
GLGR	54
PAKA	180
SRDG	29
TJGS	214
<b>Total TNB</b>	<b>483</b>

CBPS	56
KLPP	74
MPSS	51
NPRI	149
PDPS	22
PGLA	55
PKLG	16
PLPS	95
PTEK	47
SGRI	180
SKSP	41
PKLG	47
<b>Total IPP</b>	<b>831</b>
<b>Total Gas</b>	<b>1,314</b>

**Total Gas Required 1,314**

### 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	13832	13270	12794	12417	12147	11894	12121	11966	12610	14575	15600	16381	16261	16017	16560	16943	16964	16569	15292	15291	16211	16094	15691	15263

Prepared By: Mohd Yusof bin Ismail

Checked By: Kannathason a/l Karuppiah

Printed on: Wednesday, October 05, 2016 8:09:52 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	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693	693
JMAH	U002	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691	691
JMJC	U001	676	677	670	668	673	676	673	677	674	676	674	674	675	672	675	676	675	678	674	702	705	683	686	677
JMJC	U002	676	675	673	674	672	675	675	672	678	674	676	672	677	672	677	673	673	673	672	673	676	676	676	677
JMJC	U003	666	665	664	666	663	665	667	666	666	668	662	664	667	662	667	662	666	663	667	667	665	663	662	666
PKLG	U005	466	468	468	469	464	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468	468
PKLG	U006	469	469	364	367	435	468	468	468	472	472	472	472	468	468	468	468	468	468	468	468	468	468	468	468
TBIN	U001	687	688	688	687	689	689	687	687	689	686	686	690	690	690	663	689	689	683	688	690	691	688	689	689
TBIN	U002	694	689	692	690	689	693	690	693	689	690	694	688	691	692	690	691	693	692	689	689	691	687	691	694
TBIN	U003	691	692	691	692	690	691	691	692	691	691	694	692	692	692	690	690	696	691	689	691	691	693	690	692
TBIN	U004	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902
Total ST-Coal		7311	7309	7196	7199	7261	7311	7305	7309	7313	7311	7309	7308	7318	7302	7286	7304	7315	7304	7292	7333	7336	7316	7331	7309
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	0	0	0	0	0	0	25	0	22	27	63	95	163	149	177	249	271	279	283	281	279	281	280	277
Total ST-Gas		0	0	0	0	0	0	25	0	22	27	63	95	163	149	177	249	271	279	283	281	279	281	280	277
CBPS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	28	33	37	57	
CBPS	ST1C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CBPS	BLK2	373	372	375	374	376	375	374	373	373	373	375	372	374	374	374	373	373	365	373	370	367	367	368	
GLGR	GT01	104	104	106	90	69	68	68	68	68	69	68	69	67	77	111	110	109	108	108	107	107	107	107	
GLGR	CT02	104	104	105	89	68	68	68	68	69	69	69	68	69	68	78	110	108	109	109	108	107	107	107	
GLGR	ST1C	93	93	94	88	70	70	70	70	70	70	70	70	71	97	98	99	99	99	98	98	98	97	97	
KLPP	GT13	137	136	136	112	69	71	71	71	71	71	71	71	71	71	135	134	134	138	139	148	148	148	148	
KLPP	GT14	156	156	156	156	78	74	74	82	82	82	82	82	82	105	146	146	158	158	158	158	158	158	158	
KLPP	ST17	145	145	145	136	113	101	101	101	101	102	102	101	101	126	142	146	146	145	145	145	145	145	145	
MPSS	GT01	8	0	0	0	0	0	0	0	0	0	0	0	19	99	105	105	104	103	103	103	104	104	104	
MPSS	CT02	105	106	106	90	91	90	90	91	90	91	90	91	91	99	105	105	105	105	105	105	104	104	104	
MPSS	ST01	57	50	50	43	39	39	39	39	39	39	39	39	39	38	81	112	112	112	112	112	112	112	112	
NPRI	BLK1	503	502	506	503	506	458	376	406	376	355	348	371	410	470	349	358	364	522	492	520	507	504	518	
NPRI	BLK2	507	506	510	505	509	464	365	408	379	358	347	370	404	471	348	356	367	526	494	519	536	535	530	
PAKA	GT1A	90	90	72	64	67	66	66	64	65	65	66	65	65	66	65	66	65	66	67	65	87	86	85	
PAKA	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PAKA	ST1C	36	36	34	30	29	29	29	29	29	29	29	30	30	36	36	49	51	48	79	79	79	79	79	
PAKA	CT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	65	64	71	84	84	84	83	83	
PAKA	GT2B	91	91	74	63	65	64	64	64	64	63	64	64	63	64	88	88	87	87	87	86	86	86	86	
PAKA	ST2C	40	40	38	33	32	32	32	32	32	32	32	32	32	32	38	57	89	89	89	89	89	89	89	
PAKA	GT3A	90	89	76	64	66	65	65	64	65	64	66	66	64	64	65	64	66	66	65	87	86	86	86	
PAKA	GT3B	89	89	78	64	65	64	64	64	64	65	64	64	64	65	64	64	85	85	85	84	85	85	85	
PAKA	ST3C	92	92	88	77	76	76	76	76	76	76	76	77	77	76	76	77	78	90	91	91	91	91	91	
PAKA	GT4A	95	95	95	95	95	95	94	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
PAKA	GT4B	81	81	81	80	81	81	81	81	81	81	81	81	81	81	80	79	79	79	79	79	79	78	78	
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	
PCLA	GT12	157	227	222	216	216	165	168	174	156	156	158	158	157	168	161	160	162	227	225	223	220	220	218	
PCLA	ST10	91	115	113	111	111	90	90	92	92	90	90	92	95	91	90	93	116	114	114	114	114	114	114	
PLPS	GT11	134	135	134	116	70	69	69	69	69	69	69	68	69	69	69	69	69	69	68	115	146	144	144	
PLPS	GT12	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	142	141	139	139	
PLPS	GT13	131	131	130	112	67	66	66	67	67	66	67	66	67	67	68	66	67	67	112	144	143	143	143	
PLPS	ST18	210	167	142	133	98	94	94	94	93	94	93	93	94	93	100	99	98	200	213	212	213	211	212	





### 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																											
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	HY02	33	35	37	36	36	34	32	36	36	35	36	35	34	36	33	35	35	36	35	42	41	32	38	29	30	30	31	35	32	33	31	32	32	35	29	24	29	25	35	38	30	35	30	29	23	30	27	25			
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	-1	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	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	-1	-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	-1	-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	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	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		159	183	173	167	167	160	158	172	163	160	175	157	160	184	159	167	167	171	159	450	294	505	707	696	563	240	180	208	226	606	693	693	692	674	514	506	234	161	258	584	669	654	648	557	558	430	401	393			
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	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
PCUF	CUFK	17	18	18	17	20	18	17	16	17	18	17	18	18	18	18	18	18	18	18	17	20	17	18	18	18	18	18	18	17	17	19	18	18	18	17	18	18	18	17	18	18	18	17	16	16	19	18				
Total Co-Gen		17	18	18	17	20	18	17	16	17	18	17	18	18	18	18	18	18	18	18	17	20	17	18	18	18	18	18	18	17	17	19	18	18	18	18	17	18	18	18	17	18	18	18	17	16	16	19	18			
Total Gen		13865	13624	13296	13113	12795	12694	12490	12325	12173	12052	11929	12049	12167	12374	11994	12045	12588	13803	14595	15186	15543	16036	16330	16453	16294	16081	15997	16267	16567	16974	17010	17017	16995	16955	16563	16025	15318	14973	15366	16119	16202	16212	16095	16018	15763	15516	15271	14965			
TIE-ECAT		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	0	0	0	0	0	0	0	0	
TIE-HVDC		31	30	30	30	30	30	35	29	29	29	29	29	29	30	30	29	29	30	30	30	30	30	30	31	31	29	29	31	31	30	30	30	30	30	31	32	29	29	31	31	29	29	29	29	29	30	30	30	30		
TIE-PLTC		2	0	-4	41	-29	-4	37	-9	-3	1	6	21	17	48	-1	-28	-52	4	-9	-40	-87	-23	-81	-37	3	-57	-51	-15	-22	28	36	28	1	-26	-34	19	-6	-42	45	-85	-40	-20	-28	33	43	16	-22	-31			
Interconnection		33	30	26	71	1	26	73	20	26	30	35	50	46	79	28	3	-22	33	20	-10	-57	7	-51	-7	33	-27	-20	14	7	59	67	58	31	4	-4	50	26	-13	75	-54	-9	9	1	62	72	46	8	0			
System Total		13832	13594	13270	13042	12794	12668	12417	12305	12147	12022	11894	11999	12121	12295	11966	12042	12610	13770	14575	15196	15600	16025	16381	16460	16261	16108	16017	16253	16560	16915	16943	16859	16864	16951	16569	15975	15292	14986	15291	16173	16211	16203	16094	15856	15691	15470	15263	14965			
SRev ST-Coal		133	135	196	196	71	133	139	135	131	133	135	136	126	142	158	140	129	140	152	111	108	128	113	135	128	127	134	139	157	116	143	139	138	129	149	135	139	130	137	115	132	132	139	143	154	140	137	131			
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	13	14	16	16	66	112	16	17	13	13	12	9	177	124	266	262	196	16	-13	-14	-14	-10	0	-2	0	0	0			
SRev CCGT-Gas		692	469	329	508	891	1033	1228	1435	1558	1697	1837	1735	1662	1529	2200	2190	1731	1143	534	312	279	343	264	323	351	243	355	216	189	201	232	228	251	175	217	395	301	574	283	108	139	115	219	197	431	226	338	437			
SRev ST-Gas		0	0	0	0	0	0	30	0	29	30	32	34	38	37	39	33	11	3	-1	1	3	1	2	5	3	1	2	3	4	1	2	2	3	3	3	3	3	15	41	18	2	2	2	1	1	2	2	2			
SRev Co-Gen		3	2	2	3	0	2	3	4	3	2	3	2	2	4	3	3	2	2	1	2	1	2	2	2	2	3	0	3	2	2	2	2	2	2	3	3	1	2	2	3	2	2	3	4	4	1	2	2			
Syncon		1325	1174	1325	1325	1325	1325	1325	1174	1325	1325	1174	1325	1325	1325	897	1199	1199	1098	1098	947	1224	1325	1174	1325	972	972	972	972	1123	1123	1123	1224	1325	1224	1123	1123	1123	1123	1123	1123	972	821	972	972	972						
Hydro		133	260	119	125	125	132	134	120	129	132	268	135	132	259	133	125	125	121	133	270	274	413	312	323	357	303	262	385	291	514	452	452	453	320	230	238	309	281	310	310	325	190	196	137	287	316	189	197			
S.Reserve Total		2286	2040	1971	2157	2412	2625	2829	3049	3146	3318	3447	3365	3281	3146	3856	3822	3345	2742	2148	1591	1864	2097	1803	1697	1806	1919	2143	2631	1983	1825	1815	1808	1830	1762	1902	2019	2244	2589	2193	1693	1710	1550	1667	1594	1849	1507	1639	1741			