

## Daily System Generation Summary on Tuesday

Tuesday, August 09, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,889 MW
Hydro	2,089 MW
Distillate	0 MW
<b>Total TNB</b>	<b>4,978 MW</b>
<b>Total IPP</b>	<b>14,794 MW</b>
<b>Total Co-Gen</b>	<b>20 MW</b>
<b>Total System</b>	<b>19,792 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	57,143	16.07 %
Hydro	16,922	4.76 %
<b>Total TNB</b>	<b>74,065</b>	<b>20.82 %</b>
ST-Coal	177,763	49.98 %
ST-Gas	954	0.27 %
ST-Oil	7,398	2.08 %
Gas	94,154	26.47 %
Distillate	2,072	0.58 %
<b>Total IPP</b>	<b>282,341</b>	<b>79.38 %</b>
Co-Gen	318	0.09 %
<b>Total Co-Gen</b>	<b>318</b>	<b>0.09 %</b>
<b>Total Generation</b>	<b>356,724</b>	<b>100.30 %</b>
PLTG	332	0.09 %
HVDC	724	0.20 %
<b>Interconnection</b>	<b>1,056</b>	<b>0.30 %</b>
<b>Net Energy</b>	<b>355,668</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:	15:30:00 Hour
Total Set On Bus	18,259 MW
TNB Generation	3,914 MW
IPP Generation	13,066 MW
Spinning Reserve	1,266 MW
Maximum Demand	16,945 MW
Net Energy	355,668 MWH
Load Factor	87.46 %

### Fuel Cost

Total Cost:	49,040,524.95 RM
Cost per Unit	14.43 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	442
Hydro	312
Syncon	505
Thermal	124
<b>Total</b>	<b>1,383</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	58
GLGR	31
PAKA	201
PGPS	41
SRDG	22
TJGS	110
<b>Total TNB</b>	<b>462</b>

CBPS	29
KLPP	91
MPSS	50
NPRI	147
PGLA	108
PKLG	11
PLPS	88
PTEK	15
SGRI	165
PKLG	10
<b>Total IPP</b>	<b>714</b>
<b>Total Gas</b>	<b>1,176</b>

<b>Total Gas Required</b>	<b>1,275</b>
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### Alternate Fuel Usage

Station	(mmscfd)
KLPP	8
PLPS	6
SGRI	12
PKLG	73
<b>Total</b>	<b>99</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	14396	13649	13182	12733	12341	12189	12349	12341	12661	14625	15679	16228	16222	15895	16558	16905	16924	16621	15360	14884	16106	16070	15664	15330

Prepared By: Ibrahim bin Said

Checked By: Kannathason a/I Karuppiah

Printed on: Wednesday, August 10, 2016 8:08:08 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	694	689	689	694	691	691	692	693	692	692	690	691	692	693	694	692	695	692	692	692	693	694	691	692
JMAH	U002	694	694	692	693	693	691	693	693	693	693	691	695	693	693	687	694	693	694	694	693	692	694	693	693
JMJG	U001	666	685	667	672	671	669	671	670	668	673	668	670	671	670	669	671	668	671	671	670	667	669	587	604
JMJG	U002	672	671	671	672	669	669	673	667	667	672	670	670	671	671	667	630	671	664	672	664	666	672	667	668
JMJG	U003	662	682	668	667	666	667	666	663	669	666	668	663	668	670	667	660	670	667	669	669	666	667	668	664
JMJG	U004	807	785	785	785	782	782	782	782	781	781	782	785	785	785	782	782	783	785	905	904	902	907	905	903
PKLG	U003	285	285	287	281	281	283	280	283	283	281	281	282	282	282	284	284	286	288	288	285	285	285	285	279
PKLCL	U004	283	279	279	279	279	286	282	282	282	280	280	280	280	282	282	281	281	282	282	278	276	276	279	278
PKLCL	U005	271	267	268	271	268	269	268	268	268	268	268	275	328	268	268	275	345	379	389	416	455	469	465	469
PKLCL	U006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TBIN	U002	689	694	705	689	690	695	691	690	691	694	696	691	690	691	696	694	690	695	694	690	693	694	691	693
TBIN	U003	689	692	689	690	692	689	688	689	689	689	691	689	689	688	689	690	690	687	689	690	689	689	689	690
TBIN	U004	902	902	902	827	781	781	780	781	781	782	782	781	781	782	781	782	781	782	901	902	901	902	902	902
Total ST-Coal		7314	7325	7302	7220	7163	7172	7166	7161	7164	7169	7168	7161	7177	7227	7170	7169	7182	7255	7522	7541	7518	7609	7527	7537
PKLCL	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLCL	U002	282	282	282	282	282	282	282	282	282	282	282	283	282	282	282	282	282	282	282	282	282	282	281	282
Total ST-Oil		282	282	282	282	282	282	282	282	282	282	283	283	282	282	282	282	282	282	282	282	282	282	257	251
PKLCL	U001	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		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	98	98	98	98	88	90	91	91	91	92	91	91	91	91	91	91	91	89	89	90	89	89	86	86
CBPS	GT1B	98	98	98	98	90	90	90	90	90	90	90	90	90	90	90	90	90	89	89	89	89	86	86	86
CBPS	ST1C	100	101	101	101	90	90	90	90	89	90	90	90	90	90	90	90	90	91	91	92	92	91	91	91
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	11	38	90	253	367	366	366	
CLGR	GT02	107	107	107	107	108	108	108	108	109	109	109	109	109	108	108	108	108	108	105	105	104	104	104	104
CLGR	ST1C	46	46	46	46	45	45	46	46	45	45	45	47	47	46	45	46	46	45	45	45	45	45	45	45
KLPP	GT13	141	141	141	123	106	106	107	108	106	106	108	107	107	107	107	108	108	107	142	141	142	139	141	141
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	149	149	149	149	149	149	151	151	143
KLPP	GT15	159	159	159	141	120	124	120	124	120	120	119	119	120	120	119	123	119	155	157	157	157	156	156	138
KLPP	ST17	132	133	133	128	119	120	120	118	118	117	118	118	119	119	116	118	116	184	200	200	198	196	199	199
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	5	21	57	105	103	104	102	102	102	101	101
MPSS	GT02	107	106	106	106	107	107	106	106	101	91	90	93	92	91	90	92	93	92	107	106	102	104	104	103
MPSS	ST01	50	50	50	50	51	51	51	49	40	40	40	40	40	42	90	111	108	110	110	110	110	110	110	110
NPRI	BLK1	511	509	506	509	510	511	508	509	509	510	506	508	510	507	509	510	514	509	509	515	509	509	509	503
NPRI	BLK2	529	530	529	529	517	460	334	389	346	350	325	341	418	442	418	333	365	510	509	518	509	511	509	510
PAKA	GT1A	88	88	89	89	89	89	89	85	66	65	65	66	65	64	65	65	66	88	88	87	86	86	85	85
PAKA	GT1B	92	92	92	92	92	92	93	65	65	65	64	66	65	65	65	64	65	92	92	90	90	89	89	89
PAKA	ST1C	80	80	80	80	80	80	69	66	66	66	66	66	66	66	80	80	80	80	80	81	81	80	80	80
PAKA	GT2A	88	86	86	86	86	87	86	65	64	65	64	66	65	63	65	64	65	87	88	89	88	87	87	87
PAKA	GT2B	93	93	93	93	93	93	64	64	65	64	64	65	64	64	63	65	93	92	91	91	90	89	88	89
PAKA	ST2C	90	90	90	90	90	90	79	76	76	76	76	76	76	76	77	90	91	91	91	91	91	91	91	90
PAKA	GT3A	88	88	88	88	88	88	65	65	65	65	66	65	64	65	64	65	88	88	87	86	85	84	84	84
PAKA	GT3B	89	89	88	88	89	89	64	64	65	65	65	65	63	65	64	66	88	88	86	86	85	84	83	83
PAKA	ST3C	91	91	91	91	91	91	78	77	77	77	77	77	77	77	90	91	91	90	90	90	90	90	90	90
PAKA	GT4A	95	95	95	95	95	95	94	95	94	95	95	95	95	95	95	95	95	95	95	94	94	93	93	93
PAKA	GT4B	82	83	82	82	83	83	83	82	82	82	82	83	82	82	82	81	81	81	81	80	80	80	80	80
PAKA	ST4C	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
PCLA	GT11	225	225	222	221	219	175	167	162	161	162	162	158	159	204	171	159	193	230	158	214	176	228	224	224



### 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
PGAU	HY01	83	-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	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	78	-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	82	40	40	36	36	35	33	35	35	35	33	34	35	35	35	35	35	35	35	35	35	35	35	35
TMGR	HY03	80	38	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	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
UJLI	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
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	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
<b>Total Hydro</b>		<b>1014</b>	<b>622</b>	<b>254</b>	<b>185</b>	<b>183</b>	<b>180</b>	<b>176</b>	<b>180</b>	<b>178</b>	<b>178</b>	<b>179</b>	<b>181</b>	<b>182</b>	<b>183</b>	<b>175</b>	<b>156</b>	<b>159</b>	<b>178</b>	<b>173</b>	<b>409</b>	<b>733</b>	<b>698</b>	<b>826</b>	<b>866</b>
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT22	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 Distillate</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>
PCUF	CUFK	13	12	12	14	13	14	13	14	13	12	14	13	14	13	13	14	12	14	12	14	14	14	13	13
<b>Total Co-Gen</b>		<b>13</b>	<b>12</b>	<b>12</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>13</b>	<b>12</b>	<b>14</b>	<b>13</b>	<b>14</b>	<b>12</b>	<b>15</b>	<b>13</b>	<b>13</b>	<b>14</b>	<b>12</b>	<b>14</b>	<b>12</b>	<b>14</b>	<b>14</b>	<b>13</b>
<b>Total Gen</b>		<b>14469</b>	<b>14107</b>	<b>13708</b>	<b>13411</b>	<b>13245</b>	<b>12983</b>	<b>12781</b>	<b>12675</b>	<b>12390</b>	<b>12275</b>	<b>12222</b>	<b>12284</b>	<b>12381</b>	<b>12565</b>	<b>12379</b>	<b>12213</b>	<b>12624</b>	<b>13886</b>	<b>14666</b>	<b>15218</b>	<b>15709</b>	<b>16096</b>	<b>16245</b>	<b>16459</b>
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	30	30	30	30	30	30	30	30	31	31	30	30	30	31	31	30	30	31	31	30	30	30	30
TIE-PLTC		42	36	29	-29	32	-1	18	18	19	32	3	-16	1	29	8	4	-68	2	11	-36	0	11	-13	-7
<b>Interconnection</b>		<b>73</b>	<b>66</b>	<b>59</b>	<b>1</b>	<b>63</b>	<b>29</b>	<b>48</b>	<b>47</b>	<b>49</b>	<b>62</b>	<b>33</b>	<b>15</b>	<b>32</b>	<b>59</b>	<b>38</b>	<b>34</b>	<b>-37</b>	<b>32</b>	<b>41</b>	<b>-6</b>	<b>30</b>	<b>41</b>	<b>17</b>	
<b>System Total</b>		<b>14396</b>	<b>14041</b>	<b>13649</b>	<b>13410</b>	<b>13182</b>	<b>12954</b>	<b>12733</b>	<b>12628</b>	<b>12341</b>	<b>12213</b>	<b>12189</b>	<b>12269</b>	<b>12349</b>	<b>12506</b>	<b>12341</b>	<b>12179</b>	<b>12661</b>	<b>13854</b>	<b>14625</b>	<b>15224</b>	<b>15679</b>	<b>16055</b>	<b>16228</b>	
SRRev ST-Coal		105	94	117	199	256	247	253	258	255	250	251	258	242	192	249	250	237	244	102	83	116	85	127	
SRRev 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
SRRev OCCGT-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
SRRev CCGT-Gas		195	175	183	331	437	766	957	1063	1288	1408	1460	1395	1314	1201	1322	1447	1407	803	475	179	374	219	173	
SRRev 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
SRRev 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
SRRev Co-Gen		7	8	8	6	7	6	7	6	7	8	6	7	6	6	8	5	7	7	6	7	7	6	7	6
Syncon		259	645	958	1084	1084	1084	1085	1085	1085	1085	1085	1085	1085	1085	833	480	631	480	395	395	647	647	546	460
Hydro		170	326	195	138	140	143	147	143	145	144	142	141	140	148	128	125	122	127	243	272	156	389	434	484
<b>S.Reserve Total</b>		<b>736</b>	<b>1246</b>	<b>1461</b>	<b>1758</b>	<b>1924</b>	<b>2246</b>	<b>2449</b>	<b>2555</b>	<b>2780</b>	<b>2895</b>	<b>2948</b>	<b>2886</b>	<b>2789</b>	<b>2623</b>	<b>2809</b>	<b>2918</b>	<b>2859</b>	<b>2261</b>	<b>1796</b>	<b>1344</b>	<b>1443</b>	<b>1193</b>	<b>1266</b>	