

## Daily System Generation Summary on Sunday

Sunday, August 28, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,751 MW
Hydro	2,168 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,919 MW</b>
<b>Total IPP</b>	<b>13,395 MW</b>
<b>Total Co-Gen</b>	<b>70 MW</b>
<b>Total System</b>	<b>19,948 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	52,334	17.14 %
Hydro	6,601	2.16 %
<b>Total TNB</b>	<b>58,935</b>	<b>19.31 %</b>
ST-Coal	171,455	56.17 %
Gas	74,439	24.39 %
<b>Total IPP</b>	<b>245,894</b>	<b>80.55 %</b>
Co-Gen	1,413	0.46 %
<b>Total Co-Gen</b>	<b>1,413</b>	<b>0.46 %</b>
<b>Total Generation</b>	<b>306,242</b>	<b>100.32 %</b>
PLTG	298	0.10 %
EGAT	-35	-0.01 %
HVDC	725	0.24 %
<b>Interconnection</b>	<b>988</b>	<b>0.32 %</b>
<b>Net Energy</b>	<b>305,254</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:	21:30:00 Hour
Total Set On Bus	16,073 MW
TNB Generation	2,974 MW
IPP Generation	11,334 MW
Spinning Reserve	1,705 MW
Maximum Demand	14,312 MW
Net Energy	305,254 MWH
Load Factor	88.87 %

### Fuel Cost

Total Cost:	38,748,706.30 RM
Cost per Unit	12.93 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	435
Hydro	139
Syncon	1,129
Thermal	136
<b>Total</b>	<b>1,839</b>

### Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
GLGR	30
PAKA	111
PGPS	39
SRDG	5
TJGS	204
<b>Total TNB</b>	<b>389</b>
CBPS	48
KLPP	83
MPSS	48
NPRI	143
PGLA	74
PLPS	45
PTEK	8
SGRI	79
SKSP	15
<b>Total IPP</b>	<b>544</b>
<b>Total Gas</b>	<b>932</b>
<b>Total Gas Required</b>	<b>932</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	13741	13158	12679	12176	11861	11692	11642	11449	10810	11513	12210	12589	12833	12780	12943	13095	13026	12699	12528	12939	14113	14202	14040	13832

### Daily MW Generation on Sunday

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	692	583	575	578	696	693	690	693	693	691	692	693	692	692	692	691	691	692	689	689	689	689	688	687	690	690	691	692	691	694	691	693	693	693	691																
JMAH	U002	693	692	695	693	694	693	694	693	694	693	695	694	695	694	693	696	695	694	695	695	695	693	695	694	694	693	696	692	695	694	694	694	694	694	697																
JMJC	U001	671	671	669	668	671	667	672	673	668	669	670	670	668	670	670	664	670	675	674	675	668	672	672	673	670	671	670	673	676	673	669	671	667	671	671	671	667	662	669	672											
JMJC	U002	671	671	671	670	669	676	666	672	671	668	671	669	667	668	668	670	671	668	673	670	670	668	669	672	670	671	669	672	668	670	670	670	671	670	668	668	643	675	668	670	668	670	669								
JMJC	U003	664	667	660	663	671	663	670	665	666	663	663	666	666	668	665	663	668	672	669	678	667	668	666	671	666	668	664	662	666	665	667	667	669	668	667	667	669	668	667	667	668	668	666	667	667						
JMJC	U004	900	904	903	900	902	902	811	786	785	785	789	785	783	786	782	789	783	785	785	785	786	788	787	781	785	786	783	788	787	785	787	783	786	788	783	785	785	862	899	901	898	899	900	898	902						
PKLG	U003	283	281	283	281	285	284	284	280	282	282	284	250	149	149	148	151	149	149	282	284	284	284	284	284	280	280	282	282	282	282	284	282	282	284	280	282	282	280	284	282	280	280	280	280							
PKLG	U004	281	281	281	281	282	282	279	279	280	281	279	252	171	145	145	145	143	153	248	282	282	280	283	278	278	278	278	280	282	282	282	282	282	280	282	281	281	280	280	281	281	280	278	278	280	282	280	282	282		
PKLG	U005	465	465	465	462	462	462	463	462	462	459	462	462	462	462	462	408	290	301	311	330	334	320	311	273	270	267	269	267	258	254	190	190	173	127	76	0	0	0	0	0	0	0	0	0	0	0	0				
PKLG	U006	472	469	471	469	472	472	470	469	472	469	469	471	469	469	472	470	469	470	472	472	472	472	472	472	468	468	468	465	468	468	471	468	472	472	468	472	469	472	472	468	469	470	472	468	468	468					
TBIN	U001	689	689	688	687	686	687	688	690	690	689	691	691	690	688	690	687	688	688	688	689	689	691	689	689	690	687	690	687	691	689	691	689	690	689	689	688	689	688	689	690	691	690	690	690	690	690	690				
TBIN	U002	694	693	691	692	690	692	693	693	641	504	602	695	690	694	692	694	694	693	603	503	489	401	285	206	111	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TBIN	U003	692	692	693	694	694	693	696	694	694	694	691	692	694	694	694	693	694	694	695	691	693	694	696	694	692	695	694	693	692	693	693	694	693	694	693	694	693	694	693	694	693	694	693	694	693	694	693	694	693	694	
Total ST-Coal		7867	7758	7745	7738	7874	7866	7773	7749	7699	7550	7659	7693	7496	7479	7471	7422	7307	7326	7466	7451	7417	7318	7196	7077	6979	6878	6843	6852	6854	6848	6777	6776	6759	6725	6668	6588	6596	6589	6596	6596	6663	6677	6712	6705	6717	6714	6701	6708			
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	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		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
CBPS	BLK2	248	368	360	365	368	352	195	198	197	199	197	200	200	198	197	199	207	204	349	355	355	348	356	349	355	350	349	350	352	352	345	350	351	347	355	343	344	347	355	348	348	350	349	346	345	351	349				
GLGR	CT02	95	95	95	95	95	94	94	95	95	94	95	95	96	95	95	95	95	95	95	95	95	108	107	107	107	109	111	111	111	111	110	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108		
GLGR	ST1C	41	41	41	41	41	41	40	41	40	40	41	39	41	40	41	41	41	41	41	41	41	40	46	47	47	47	48	48	48	48	48	48	47	47	47	47	46	46	46	46	46	46	46	46	46	46	45	46			
KLPP	GT13	136	132	132	132	121	121	122	123	121	122	123	122	122	123	122	126	125	123	129	124	125	133	138	139	138	137	137	138	138	138	138	138	138	138	105	98	97	102	139	138	138	137	136	136	137	137	137	137			
KLPP	GT14	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28	139	139	155	155	155	156	156	156	156	156	156	156	156	156	156	129	129	109	109	137	141	141	141	141	141	141	141		
KLPP	GT15	155	151	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	81	144	146	152	152	152	154	154	154	154	153	152	119	115	114	114	143	140	140	143	143	140	140	140	140	141	137	137	137	137		
KLPP	ST17	202	158	134	101	59	59	59	59	59	60	60	63	59	63	59	60	63	59	55	110	135	185	202	206	206	208	208	209	202	205	205	204	204	204	186	179	174	177	194	198	198	198	198	196	194	198	198				
MPSS	GT01	99	65	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	102	105	103	104	104	105	104	104	104	103	102	102	101	102	103	103	102	103	103	104	104	106	106	105	106					
MPSS	GT02	101	68	69	91	90	90	91	91	92	90	91	92	91	92	93	91	89	94	93	88	91	106	92	105	106	106	106	107	107	106	105	105	105	104	105	105	105	105	105	105	104	104	104	106	106	106	106				
MPSS	ST01	113	69	65	40	39	39	40	40	40	40	40	40	40	40	40	40	40	41	41	39	49	46	110	113	113	113	113	113	113	112	113	112	112	112	112	112	112	112	112	112	112	113	113	113	113	113	113				
NPRI	BLK1	474	503	436	476	458	413	392	382	340	450	341	353	363	441	397	299	298	307	409	397	499	512	509	512	509	511	509	508	507	509	509	508	508	508	503	509	497	497	511	514	509	508	508	511	495	505	508	505			
NPRI	BLK2	471	503	436	473	460	416	397	385	340	448	342	351	365	433	398	298	298	307	308	380	509	514	508	512	511	512	508	510	509	508	510	505	511	509	505	509	498	499	511	514	510	509	508	512	495	506	508	506			
PAKA	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	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		
PAKA	ST1C	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		
PAKA	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	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		
PAKA	ST2C	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		
PAKA	GT3A	82	65	66	64	65	65	65	65	66	64	64	64	65	66	66	63	64	64	65	72	86	84	84	84	83	84	83	83																							



### Daily MW Generation on Sunday

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																											
Total Co-Gen		59	58	60	59	58	59	60	58	59	60	60	59	62	60	61	60	61	59	57	59	58	59	57	58	58	59	55	60	60	59	60	60	59	58	57	58	58	57	58	60	59	60	59	60	58	58	60	58			
Total Gen		13746	13540	13190	12892	12725	12567	12223	12211	11914	11925	11726	11765	11553	11640	11521	11027	10835	11244	11515	11781	12185	12567	12618	12726	12884	12825	12805	12931	12997	13183	13138	13119	13058	13082	12798	12718	12596	12618	12912	13815	14178	14274	14238	14368	14153	14136	13877	13669			
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	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		30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	30	31	31	31	31	30	30	31	31	30	30	30	29	31	31	30	31	30	29	30	31	30	29	30	31	30	31		
TIE-PLTG		-25	16	1	12	15	9	17	41	23	62	4	26	-19	-31	42	48	-5	-32	-28	-6	-55	-13	-1	-34	20	-2	-6	-2	23	-13	13	80	1	42	68	69	38	4	-58	-20	35	9	5	27	83	40	16	55			
Interconnection		5	46	32	42	46	40	47	71	53	91	34	56	11	-1	72	78	25	-2	2	24	-25	16	29	-4	51	28	25	29	54	17	43	109	32	73	99	100	68	33	-27	12	65	40	36	56	113	72	45	86			
System Total		13741	13494	13158	12850	12679	12527	12176	12140	11861	11834	11692	11709	11642	11641	11449	10949	10810	11246	11513	11757	12210	12551	12589	12730	12833	12797	12780	12902	12943	13166	13095	13010	13026	13009	12699	12618	12528	12585	12939	13803	14113	14234	14202	14312	14040	14064	13832	13583			
SRev ST-Coal		139	128	141	148	132	140	233	257	307	256	147	109	124	115	122	166	160	161	230	145	182	182	83	138	131	194	136	127	125	131	158	159	159	147	153	131	123	130	123	123	56	42	182	189	177	180	191	186			
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	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
SRev CCGT-Gas		888	503	678	431	425	557	789	794	1039	876	1187	1118	1037	902	988	1422	1486	1155	1048	841	530	425	683	390	374	271	269	649	589	405	606	551	482	727	606	606	752	840	993	295	297	251	359	264	481	326	332	594			
SRev 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	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
SRev Co-Gen		11	12	10	11	12	11	10	12	11	10	10	10	11	8	10	9	10	9	11	13	11	12	11	13	12	12	11	15	10	10	11	10	10	11	12	13	12	12	12	13	12	10	11	10	12	12	10	12	10	12	
Syncon		1036	1036	1036	1036	885	1036	1036	1036	1036	1036	1036	1036	986	1137	1137	1137	1137	986	1137	1137	1137	1137	1137	1320	1137	1137	986	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	986	986	1137	1137	1137	1137	1137	1137	1036				
Hydro		126	100	123	101	376	244	114	95	98	102	99	163	158	342	114	126	138	80	205	118	81	160	124	119	120	119	258	126	127	119	121	195	133	124	126	125	110	136	127	247	199	113	114	115	122	118	120	162			
S.Reserve Total		2200	1779	1988	1727	1830	1988	2182	2194	2491	2280	2479	2436	2366	2353	2471	2560	2931	2542	2480	2254	1941	1916	2038	1980	1774	1733	1660	2054	1988	1802	2033	2052	1921	2146	2034	2012	2134	2255	2392	1664	1640	1544	1795	1705	1920	1762	1788	1990			