

## Daily System Generation Summary on Wednesday

Wednesday, September 28, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,395 MW
Hydro	2,312 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,707 MW</b>
<b>Total IPP</b>	<b>13,291 MW</b>
Total Co-Gen	0 MW
<b>Total System</b>	<b>18,998 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	65,474	18.50 %
Hydro	16,940	4.79 %
<b>Total TNB</b>	<b>82,414</b>	<b>23.29 %</b>
ST-Coal	182,042	51.44 %
ST-Oil	12,914	3.65 %
Gas	71,590	20.23 %
Distillate	4,316	1.22 %
<b>Total IPP</b>	<b>270,862</b>	<b>76.54 %</b>
Co-Gen	397	0.11 %
<b>Total Co-Gen</b>	<b>397</b>	<b>0.11 %</b>
<b>Total Generation</b>	<b>353,673</b>	<b>99.94 %</b>
PLTG	351	0.10 %
HVDC	-580	-0.16 %
<b>Interconnection</b>	<b>-229</b>	<b>-0.06 %</b>
<b>Net Energy</b>	<b>353,902</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	17,998 MW
TNB Generation	4,448 MW
IPP Generation	12,301 MW
Spinning Reserve	1,232 MW
Maximum Demand	16,770 MW
Net Energy	353,902 MWH
Load Factor	87.93 %

### Fuel Cost

Total Cost:	49,619,871.70 RM
Cost per Unit	14.74 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	323
Hydro	336
Syncon	731
Thermal	127
<b>Total</b>	<b>1,517</b>

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	28
GLGR	55
PAKA	170
PGPS	41
SRDG	4
TJGS	210
<b>Total TNB</b>	<b>508</b>
CBPS	53
MPSS	50
NPRI	74
PDPS	1
PGLA	55
PLPS	90
PTEK	1
SGB3	80
SGRI	93
SKSP	51
<b>Total IPP</b>	<b>547</b>
<b>Total Gas</b>	<b>1,055</b>
<b>Total Gas Required</b>	<b>1,231</b>

### Alternate Fuel Usage

Station	(mmscfd)
PDPS	24
PTEK	17
SGB3	8
PKLG	127
<b>Total</b>	<b>176</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	14326	13696	13135	12761	12509	12341	12422	12315	12732	14554	15394	16016	15917	15690	16285	16613	16770	16391	15201	15040	16158	16032	15566	15279

Prepared By: Kannathason a/l Karuppiyah

Checked By: Siti Nurhamizatul Aini

Printed on: Thursday, September 29, 2016 8:12:31 AM

(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi

**Daily MW Generation on Wednesday**

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	692	691	693	693	692	691	689	694	692	694	698	689	693	693	692	693	693	693	551	551	547	665	695	695	695	693	693	693	694	694	694																		
JMAH	U002	695	692	692	698	692	695	693	693	693	695	696	693	695	694	693	695	692	696	692	694	696	693	694	697	694	692	693	692	693	693	693	696	693	693																
JMJC	U001	676	680	673	678	675	673	674	672	672	673	673	678	672	672	673	674	672	676	675	671	677	678	674	679	677	680	675	678	675	675	635	683	675	673	676	673	674	671	673	674	677									
JMJC	U002	676	676	672	675	674	673	677	676	682	676	675	677	672	679	671	659	674	673	678	673	672	682	677	677	675	677	673	673	674	672	673	677	675	677	675	675	674	674	676	676	669	676								
JMJC	U003	666	668	665	684	676	666	670	670	670	670	671	671	670	671	668	672	671	667	672	673	673	667	670	672	671	672	668	671	671	666	672	671	673	667	673	669	672	671	668	672	671									
PKLG	U004	282	282	280	280	280	279	279	281	279	281	280	280	279	279	281	281	279	281	281	286	280	280	280	280	280	281	281	282	280	280	282	282	284	282	279	281	279	277	279	279	284	284	280							
PKLG	U005	469	466	466	466	467	466	466	469	462	469	465	469	468	469	469	465	469	469	469	469	469	465	465	462	465	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462	462						
PKLG	U006	472	472	468	468	468	472	468	472	472	472	469	468	470	468	470	468	468	472	468	472	468	472	468	472	468	470	472	468	472	468	472	468	469	469	469	469	470	470	470	470	470	470	469							
TBIN	U001	689	692	689	689	689	689	687	687	687	692	689	688	687	687	687	690	689	687	690	689	688	689	689	690	691	687	687	686	686	689	690	690	692	689	690	690	690	692	689	688	689	687	687	687	687					
TBIN	U002	710	701	698	690	689	692	700	693	690	691	692	694	691	692	692	693	692	690	687	694	694	693	690	693	691	689	689	692	687	693	693	690	695	689	692	690	692	690	692	690	692	690	692	690	693					
TBIN	U003	689	690	690	688	691	691	689	691	690	690	690	689	690	689	690	689	690	689	691	689	689	690	691	687	689	692	690	691	690	690	690	692	690	691	690	690	690	692	689	687	688	687	691	689						
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	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902	902					
Total ST-Coal		7619	7613	7586	7609	7596	7592	7596	7599	7581	7606	7593	7604	7596	7600	7594	7572	7590	7591	7594	7596	7599	7610	7598	7610	7603	7600	7596	7601	7595	7600	7587	7597	7576	7595	7587	7453	7447	7418	7580	7592	7591	7593	7583	7585	7586	7592	7585	7593		
PKLG	U001	282	283	283	283	283	284	284	209	143	144	144	209	281	283	283	284	284	284	291	283	283	284	284	283	283	283	283	283	287	285	283	283	285	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283		
PKLG	U002	282	282	283	279	283	283	282	282	203	148	146	146	199	277	281	281	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282	282
Total ST-Oil		564	565	566	562	566	566	566	566	412	291	290	290	408	558	564	564	566	566	566	573	565	565	543	472	508	560	566	566	565	569	567	565	565	567	565	565	566	568	565	565	567	565	565	565	565	565	565	565	565	
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	
CBPS	GT1A	96	88	87	87	88	87	88	87	88	88	87	87	87	88	87	87	88	88	87	87	88	88	87	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	
CBPS	ST1C	44	41	39	39	38	38	37	38	39	39	39	39	39	40	39	40	39	45	46	46	46	46	46	48	48	47	47	47	46	45	47	47	46	46	46	41	41	41	41	41	41	41	41	41	41	41	41	41	41	
CBPS	BLK2	361	367	359	251	210	214	214	209	209	209	213	212	291	373	365	370	369	373	375	367	377	374	372	375	369	371	369	387	368	368	383	384	362	363	365	367	366	344	367	367	370	366	369	368	371	370	371	375		
GLGR	GT01	100	88	67	67	67	68	68	69	67	68	68	68	69	67	67	102	101	99	101	99	101	99	100	100	109	107	107	107	106	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	
GLGR	GT02	100	88	68	68	68	68	67	66	69	67	68	68	69	68	68	69	101	100	101	101	100	100	101	100	101	100	101	109	108	107	106	107	108	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	
GLGR	ST1C	91	87	71	70	71	71	71	71	71	71	70	70	70	70	90	90	90	91	91	91	91	91	91	91	91	91	98	98	98	98	98	99	99	99	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	110	107	106	105	105	103	103	103	103	103	103	103	105	106	101	103	104	103	102	82	85	85	102	101	102	102	102	102	102	102	104	103	102	103
MPSS	GT02	107	94	88	89	89	89	88	91	90	91	84	92	93	92	90	93	94	109	108	106	106	105	105	105	105	105	105	105	106	106	104	102	102	102	82	86	85	103	101	102	105	103	104	103	103	102	102	107		
MPSS	ST01	50	44	38	38	38	37	38	38	39	39	39	39	39	39	38	39	41	79	111	111	111	111	111	111	111	111	111	112	112	109	109	110	110	108	94	84	108	109	109	108	108	108	108	108	108	108	108	107		
NPRI	BLK1	437	382	521	524	464	372	378	333	350	350	362	338	407	376	326	364	514	530	403	520	499	512	528	536	470	512	512	529	532	533	532	529	535	531	538	531	448	377	367	511	511	515	511	514	510	508	509	505		
PAKA	GT1A	93	93	65	64	65	66	65	66	65	65	67	61	56	65	65	66	66	91	90	90	89	88	88	88	88	88	88	88	88	87	88	87	87	87	88	88	90	93	91	92	91	91	91	91	91	91	91	91	91	
PAKA	GT1B	93	93	63	64	65	65	64	65	65	65	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	81	81	66	67	67	66	66	67	66	66	65	25	28	29	29	29	37	38	38	38	37	45	78	79	79	80	80	80	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	
PAKA	GT2A	90	90	65	64	65	65	65	65	65	65	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	94	94	64	64	64	65	64	65	64	64	65	60	55	63	64	65	65	93	91	91	90	89	88	87	83	87	88	87	87	87	87	86	87	87	88	88	90	93	92	93	92	92	92	92	92	92	92	92	92	92
PAKA	ST2C	89	89	75	75	75	74	74	75	75	75	74	22	30	3																																				



**Daily MW Generation on Wednesday**

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	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	33	37	37	37	35	34	35	33	36	34	36	34	32	36	39	39	31	31	82	81	82	80	33	34
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	31	79	78	77	78	78
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	28	34	80	80	80	80	80
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	-1	92	0	0	0	0
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	94	101	90	-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
Total Hydro		478	489	488	513	388	414	297	275	281	283	292	344	344	370	340	187	195	365	569	680	736	930	926	
PDPS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	104	103	105	103	103	103
PDPS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	103	103	102	103	101	103
PDPS	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	105	105	104	104	104	104
PTEK	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	105	105	106	106	105	106
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	104	103	103	104	104	103
SGB3	GT33	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 Disulfate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	314	521	521	519	518	517
PCUF	CUFK	0	0	0	0	16	18	17	19	17	18	19	18	18	19	19	17	16	20	17	18	19	19	19	19
Total Co-Gen		0	0	0	0	16	18	17	19	17	18	19	18	18	19	19	17	16	20	17	18	19	19	19	19
Total Gen		14391	13661	13756	13492	13155	12986	12798	12566	12508	12387	12306	12332	12372	12284	12200	12663	13737	14505	15004	15356	15689	15942	16092	
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		-28	-28	-29	-29	-28	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	
TIE-PLTG		93	-5	90	74	49	13	67	7	28	13	-6	3	-20	13	-3	-54	-39	-24	-19	44	-8	-24	-45	
Interconnection		65	-33	60	45	20	-15	37	-22	-1	-16	-35	-26	-50	-17	-31	-82	-69	-53	-49	14	-38	-54	-74	
System Total		14326	13994	13696	13447	13135	13001	12761	12588	12509	12383	12341	12358	12422	12388	12315	12282	12732	13790	14554	14990	15394	15743	16016	
SRev-ST-Coal		106	112	139	116	129	133	129	126	134	119	132	121	129	125	131	153	135	134	131	129	126	115	127	
SRev-ST-Oil		0	-1	-2	2	-2	-2	-2	82	74	74	74	81	6	0	0	-2	-2	-2	-9	-1	-1	-11	10	
SRev-OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	0	101	0	0	0	
SRev-CCGT-Gas		745	1156	1004	1312	1531	1724	1798	2013	1913	1951	2008	2044	1495	1464	1723	1632	1198	1063	725	345	245	291	222	
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	
SRev-Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	11	22	22	22	24	
SRev-Co-Gen		20	20	20	20	4	2	3	1	3	2	1	2	2	3	2	2	1	1	3	4	0	3	2	
Syncon		1098	1068	1068	917	1169	1018	1270	1270	1270	1270	1270	1169	1169	1011	1162	1263	1263	1036	815	815	815	658	658	
Hydro		112	101	102	228	101	226	91	113	107	105	96	145	145	271	150	102	99	256	278	317	251	405	409	
S.Reserve Total		2056	2461	2336	2600	2837	3106	3294	3526	3514	3526	3586	3580	3016	2885	3173	3157	2694	2488	1950	1601	1520	1478	1519	