

## Daily System Generation Summary on Monday

Monday, July 18, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,745 MW
Hydro	1,996 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,741 MW</b>
<b>Total IPP</b>	<b>14,228 MW</b>
<b>Total Co-Gen</b>	<b>0 MW</b>
<b>Total System</b>	<b>20,533 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	47,305	14.24 %
Hydro	6,741	2.03 %
<b>Total TNB</b>	<b>54,046</b>	<b>16.27 %</b>
ST-Coal	163,342	49.17 %
Gas	112,881	33.98 %
<b>Total IPP</b>	<b>276,223</b>	<b>83.14 %</b>
Co-Gen	1,034	0.31 %
<b>Total Co-Gen</b>	<b>1,034</b>	<b>0.31 %</b>
<b>Total Generation</b>	<b>331,303</b>	<b>99.72 %</b>
PLTG	-391	-0.12 %
HVDC	-536	-0.16 %
<b>Interconnection</b>	<b>-927</b>	<b>-0.28 %</b>
<b>Net Energy</b>	<b>332,230</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:	14:30:00 Hour
Total Set On Bus	17,181 MW
TNB Generation	2,847 MW
IPP Generation	12,921 MW
Spinning Reserve	1,374 MW
Maximum Demand	15,913 MW
Net Energy	332,230 MWH
Load Factor	86.99 %

### Fuel Cost

Total Cost:	45,546,208.05 RM
Cost per Unit	14.03 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	470
Hydro	192
Syncon	810
Thermal	21
<b>Total</b>	<b>1,493</b>

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
CBPS	46
GLGR	48
PGPS	37
SRDG	13
TJGS	209
<b>Total TNB</b>	<b>353</b>

CBPS	50
KLPP	93
MPSS	55
NPRI	152
PGLA	111
PLPS	92
PTEK	18
SGB3	42
SGRI	196
SKSP	49
<b>Total IPP</b>	<b>857</b>
<b>Total Gas</b>	<b>1,210</b>

**Total Gas Required 1,210**

### 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	12887	12275	11805	11496	11149	11123	11434	11357	12025	14149	15164	15737	15683	15221	15638	15796	15847	15492	14470	14139	15155	15101	14424	14009

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(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi





### Daily MW Generation on Monday

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 Hydro		282	280	155	153	157	177	155	156	151	151	151	155	180	158	178	155	158	158	223	199	488	598	500	535	520	322	220	222	426	425	434	440	439	338	353	295	178	264	179	184	360	363	363	358	255	185	179	184		
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
PCUF	CUFG	29	29	30	29	29	30	29	29	28	28	30	29	28	29	29	29	28	27	26	25	25	24	25	22	24	25	24	24	23	23	22	24	25	24	24	24	25	24	24	24	24	25	26	26	31	28	30	29		
PCUF	CUFK	15	16	18	18	16	16	16	16	17	17	17	17	17	17	18	17	15	17	16	15	17	16	17	18	17	17	16	17	16	16	15	16	16	18	17	16	17	18	16	16	16	16	17	17	18	17	18	17	15	
Total Co-Gen		44	45	48	47	45	46	45	46	45	45	47	46	45	46	47	46	43	44	42	40	42	40	42	40	41	42	40	41	39	39	37	40	41	42	41	41	41	42	40	40	41	42	43	48	46	47	44			
Total Gen		12882	12534	12260	11948	11774	11626	11493	11369	11167	11137	11140	11192	11427	11594	11412	11444	12058	13272	14134	14629	15110	15371	15646	15773	15575	15271	15094	15353	15548	15807	15687	15772	15691	15651	15340	14814	14336	14042	14058	14768	15163	15186	15156	14961	14478	14309	13992	13856		
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	
TIE-HVDC		31	31	30	30	30	30	30	30	30	30	30	31	31	31	31	30	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-98	-99	-99	-97	-97	-99	-99	-56	30	31	31	30	30	30	30	30	30	30	30	30		
TIE-PLTG		-35	-12	-44	-25	-61	-29	-33	-15	-12	-19	-13	-5	-37	9	24	-20	2	-7	-46	-6	43	-1	7	-25	-9	-12	-28	0	8	-8	-12	-20	-57	-60	-55	-4	-35	-6	-25	-18	-23	-20	25	-10	24	-36	-47	6		
Interconnection		-5	19	-15	4	-31	1	-3	15	18	12	17	25	-7	39	55	11	33	23	-15	-104	-54	-99	-91	-122	-108	-110	-127	-99	-90	-106	-109	-118	-156	-159	-152	-101	-134	-105	-81	12	8	11	55	20	54	-6	-17	35		
System Total		12887	12515	12275	11944	11805	11625	11496	11354	11149	11125	11123	11167	11434	11555	11357	11433	12025	13249	14149	14733	15164	15470	15737	15897	15683	15381	15221	15452	15638	15913	15796	15890	15847	15810	15492	14915	14470	14147	14139	14756	15155	15175	15101	14941	14424	14315	14009	13821		
SRev ST-Coal		152	169	184	182	166	181	172	176	183	181	189	182	178	174	337	342	212	155	134	109	30	16	-55	20	4	17	59	48	17	12	7	-1	16	9	15	22	8	16	20	18	22	14	18	-6	21	112	216	200		
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
SRev CCGT-Gas		403	731	870	1181	1374	1528	1644	1764	1958	1990	1978	1937	1732	1544	1978	1975	1634	967	552	365	437	403	297	323	474	601	623	389	580	355	462	353	362	308	511	679	1054	1426	1322	617	394	383	410	625	566	492	608	265		
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
SRev Co-Gen		10	9	6	7	9	8	9	9	8	9	9	7	8	9	8	7	8	11	10	12	14	12	14	12	14	13	12	14	13	-12	-12	-10	-13	-14	-15	-14	-14	-14	-15	-13	-13	-14	-15	-16	-21	-19	-20	-17		
Syncon		954	954	954	954	954	803	954	954	954	954	954	803	954	803	954	954	828	854	727	702	803	702	702	702	803	803	702	702	702	803	803	803	803	803	803	954	954	954	954	954	954	954	954	954	954	954	954	954		
Hydro		144	146	146	148	144	275	146	145	150	150	150	146	272	143	274	146	143	143	204	102	65	180	303	294	284	332	307	305	277	278	264	269	292	266	271	284	150	159	149	144	43	40	40	45	148	143	144	139		
S.Reserve Total		1663	2009	2160	2472	2847	2795	2925	3048	3253	3284	3280	3226	2993	2824	3400	3424	2951	2230	1728	1442	1273	1320	1479	1375	1550	1704	1848	1589	1660	1374	1489	1516	1511	1424	1755	1774	2152	2541	2430	1720	1400	1377	1407	1602	1668	1682	1907	1546		