

## Daily System Generation Summary on Thursday

Thursday, July 14, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,745 MW
Hydro	2,172 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,917 MW</b>
<b>Total IPP</b>	<b>15,389 MW</b>
<b>Total Co-Gen</b>	<b>35 MW</b>
<b>Total System</b>	<b>21,905 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	51,237	15.00 %
Hydro	6,423	1.88 %
<b>Total TNB</b>	<b>57,660</b>	<b>16.88 %</b>
ST-Coal	184,792	54.11 %
Gas	97,455	28.54 %
<b>Total IPP</b>	<b>282,247</b>	<b>82.65 %</b>
Co-Gen	626	0.18 %
<b>Total Co-Gen</b>	<b>626</b>	<b>0.18 %</b>
<b>Total Generation</b>	<b>340,533</b>	<b>99.71 %</b>
PLTG	-432	-0.13 %
HVDC	-550	-0.16 %
<b>Interconnection</b>	<b>-982</b>	<b>-0.29 %</b>
<b>Net Energy</b>	<b>341,515</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	17,771 MW
TNB Generation	3,006 MW
IPP Generation	12,969 MW
Spinning Reserve	1,772 MW
Maximum Demand	16,125 MW
Net Energy	341,515 MWH
Load Factor	88.25 %

### Fuel Cost

Total Cost:	44,565,341.65 RM
Cost per Unit	13.33 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	505
Hydro	293
Syncon	672
Thermal	124
<b>Total</b>	<b>1,594</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

### 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	13855	13160	12686	12253	12033	11893	12013	11989	12419	14153	15169	15782	15687	15316	15923	16030	16011	15659	14640	14331	15315	15233	14887	14426

### Gas Usage

Station	(mmscfd)
GLGR	53
PAKA	83
PGPS	39
TJGS	207
<b>Total TNB</b>	<b>382</b>

CBPS	55
KLPP	99
MPSS	47
NPRI	144
PGLA	103
PLPS	78
PTEK	3
SGRI	180
SKSP	24
<b>Total IPP</b>	<b>733</b>
<b>Total Gas</b>	<b>1,115</b>

**Total Gas Required 1,115**

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

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(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi





**Daily MW Generation on Thursday**

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																												
TIE-HVDC		30	30	30	30	29	29	30	30	31	31	30	30	31	31	30	30	29	29	30	-97	-98	-98	-98	-98	-99	-99	-97	-97	-98	-98	-98	-98	-98	-85	31	30	30	30	30	31	31	31	31									
TIE-PLTG		-87	-65	-41	-17	1	-23	18	11	3	-18	-6	-6	19	8	25	-7	9	-24	-32	-14	12	-49	20	-82	-83	-69	-27	-16	-32	-28	-42	-30	-59	-44	-42	-6	26	-21	-25	-8	-21	45	0	-15	-1	-13	2	-13				
Interconnection		-57	-35	-11	13	31	6	48	41	34	12	24	24	50	39	56	24	38	6	-2	-112	-85	-147	-78	-180	-182	-168	-125	-113	-131	-126	-139	-127	-156	-142	-140	-104	-72	-120	-110	23	9	75	30	15	30	18	33	18				
System Total		13855	13574	13169	12956	12686	12493	12253	12154	12033	11926	11893	11939	12013	12142	11989	11919	12419	13482	14153	14710	15169	15575	15782	16023	15687	15493	15316	15641	15823	16125	16039	15970	16011	15932	15659	15232	14640	14262	14331	14948	15315	15362	15233	15154	14887	14702	14426	14192				
SRev ST-Coal		33	197	212	165	221	217	211	207	189	226	206	204	241	239	260	239	249	247	236	228	228	199	196	153	184	176	188	165	220	210	182	71	72	64	65	72	70	69	70	4	22	-5	19	6	15	53	139	198				
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	3	3	8	40	40	40	88	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		376	244	626	849	1135	1361	1590	1700	1844	2020	2037	1989	1881	1745	1857	1961	1816	1214	911	768	414	448	163	171	492	601	781	833	627	461	533	530	443	461	738	988	1243	1772	1756	874	486	395	548	345	530	540	717	543				
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			
SRev Co-Gen		8	10	7	8	9	7	9	10	8	6	8	6	8	7	8	9	9	7	6	7	9	6	12	8	10	13	12	13	11	11	10	10	10	10	10	10	10	12	9	8	8	9	10	9	8	9	8	9	9	7		
Syncon		803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803	803			
Hydro		119	144	142	142	141	142	140	141	142	272	142	140	269	141	140	143	146	148	274	404	354	470	395	403	415	506	460	587	523	523	350	280	206	159	148	195	147	226	162	139	135	141	139	140	138	143	141	144				
S.Reserve Total		1339	1398	1799	1967	2309	2530	2753	2861	2986	3176	3196	3152	3061	2935	3068	3155	3023	2419	2079	2057	1808	1627	1270	1242	1608	1808	1960	2117	1900	1772	1639	1586	1534	1497	1764	2070	2272	2878	2799	1829	1456	1343	1517	1303	1494	1548	1809	1695				