

## Daily System Generation Summary on Thursday

Thursday, March 08, 2018

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,465 MW
Distillate	0 MW
Total TNB	5,267 MW
Total IPP	14,028 MW
Total Co-Gen	56 MW
Total System	19,923 MW

### Generation Mix

Type	MWh	Percentage
Gas	47,766	13.38 %
Hydro	20,726	5.81 %
<b>Total TNB</b>	<b>68,492</b>	<b>19.18 %</b>
ST-Coal	166,532	46.65 %
Gas	119,474	33.47 %
<b>Total IPP</b>	<b>286,006</b>	<b>80.11 %</b>
Co-Gen	1,406	0.39 %
<b>Total Co-Gen</b>	<b>1,406</b>	<b>0.39 %</b>
<b>Total Generation</b>	<b>355,904</b>	<b>99.69 %</b>
PLTG	-413	-0.12 %
HVDC	-693	-0.19 %
<b>Interconnection</b>	<b>-1,106</b>	<b>-0.31 %</b>
<b>Net Energy</b>	<b>357,010</b>	<b>100.00 %</b>

### Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

### Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,131 MW
TNB Generation	3,830 MW
IPP Generation	13,026 MW
Spinning Reserve	1,219 MW
Maximum Demand	16,977 MW
Net Energy	357,010 MWH
Load Factor	87.62 %

### Fuel Cost

Total Cost:	63,991,444.64 RM
Cost per Unit	19.09 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	362
Hydro	510
Syncon	410
Thermal	61
<b>Total</b>	<b>1,343</b>

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	26

### Gas Usage

Station	(mmscfd)
CBPS	33
GLGR	53
PGPS	41
TJGS	220
<b>Total TNB</b>	<b>348</b>
CBPS	55
KLPP	98
MPSS	51
NPRI	158
PGLA	109
SGRI	189
SKSP	40
YPKA	87
<b>Total IPP</b>	<b>789</b>
<b>Total Gas</b>	<b>1,136</b>

**Total Gas Required 1,136**

### 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	13993	13403	12958	12619	12402	12189	12536	12577	12911	14671	15585	16284	16201	16045	16528	16850	16923	16658	15540	15239	16429	16381	15884	15420

Prepared By: Abu Bakar bin K.K. Ibrahim

Checked By: -Select Name-

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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																													
Total Hydro		997	790	541	509	452	286	286	211	212	211	200	201	201	214	198	198	223	296	407	547	737	914	1251	1447	1350	1167	908	958	1220	1531	1502	1529	1587	1591	1496	1256	723	460	604	1279	1647	1859	1709	1617	1394	1150	755	378					
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	0	0	0
PCUF	CUGF	30	30	30	29	30	31	30	31	31	31	31	32	33	32	32	31	32	31	29	29	29	29	28	28	29	26	26	27	27	28	26	28	28	27	28	29	29	29	30	30	31	30	30	30	31	30	31	30	29	30			
PCUF	CUFK	28	30	30	28	30	30	28	29	29	30	29	29	30	29	29	31	29	29	29	30	29	29	29	29	29	27	29	29	29	29	29	29	29	29	29	29	29	29	29	30	28	28	30	29	30	28	30	30	29				
Total Co-Gen		58	60	60	57	60	61	58	60	60	61	60	61	63	62	61	60	61	62	58	58	58	59	57	57	58	53	55	56	56	57	55	55	56	56	57	58	58	58	60	58	59	60	59	60	59	60	59	59					
Total Gen		13921	13706	13328	13079	12892	12780	12610	12334	12379	12102	12127	12267	12507	12693	12604	12579	12931	13868	14607	15125	15564	15888	16238	16329	16190	15953	15974	16247	16463	16854	16751	16868	16865	16912	16596	16107	15554	15291	15218	16066	16401	16473	16298	16191	15889	15663	13391	15055					
TIE-BGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		-29	-29	-29	-29	-28	-29	-28	-28	-28	-28	-29	-28	-29	-29	-29	-29	-29	-29	-28	-28	-30	-30	-29	-28	-28	-29	-28	-28	-29	-28	-28	-29	-28	-28	-31	-28	-31	-31	-31	-31	-31	-28	-28	-28	-30	-28	-30	-30	-29				
TIE-PLTG		-43	-14	-46	16	-37	-55	20	-33	-45	-32	-34	29	0	-6	56	7	49	-80	-35	-27	7	-61	-16	-10	18	9	-43	-58	-36	-62	-71	-66	-30	-37	-31	-22	44	22	12	46	0	8	-55	-21	33	-38	1	-56					
Interconnection		-72	-43	-75	-14	-66	-83	-9	-61	-73	-60	-62	1	-29	-34	27	-22	20	-109	-64	-55	-21	-91	-46	-40	-11	-19	-71	-86	-65	-91	-99	-96	-58	-65	-62	-50	14	-9	-19	15	-28	-21	-83	-51	5	-68	-29	-84					
System Total		13993	13749	13403	13093	12958	12783	12619	12395	12402	12162	12189	12266	12536	12727	12577	12601	12911	13977	14671	15180	15585	15979	16284	16369	16201	15972	16045	16333	16528	16925	16850	16964	16923	16977	16688	16157	15540	15390	15239	16051	16429	16404	16381	16242	15884	15731	15420	15139					
SRev ST-Coal		231	233	207	243	244	238	251	249	243	230	237	246	236	243	250	257	229	229	225	236	92	88	79	75	73	85	72	63	66	65	68	59	66	80	64	62	79	-381	-314	-224	-157	-62	-7	23	39	59	78	65					
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	0	
SRev CCGT-Gas		410	426	509	566	692	727	800	1005	1112	1359	1312	1166	937	756	1222	1410	1153	675	491	387	296	227	371	440	485	492	227	339	382	229	463	267	322	265	503	405	408	378	528	305	312	378	347	333	395	358	185	162					
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	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		500	812	1114	1200	1351	1351	1351	1351	1351	1351	1351	1351	1351	1351	1351	1200	1250	1079	928	777	626	439	252	252	590	777	590	439	313	313	313	313	313	313	313	500	626	962	962	500	187	187	187	187	374	500	863	1048					
Hydro		425	326	273	209	115	131	131	131	131	131	131	131	118	134	134	260	137	197	308	443	492	425	516	529	374	446	583	557	622	651	624	565	561	656	709	707	634	715	602	547	355	485	577	613	581	388	356						
S.Reserve Total		1566	1797	2183	2218	2402	2447	2533	2736	2836	3071	3032	2894	2655	2468	2957	3152	2842	2291	1992	1859	1688	1433	1314	1283	1329	1541	1522	1575	1444	1229	1495	1263	1266	1219	1536	1676	1820	1593	1891	1183	889	838	1012	1120	1421	1498	1514	1631					