

## Daily System Generation Summary on Tuesday

Tuesday, January 16, 2018

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,791 MW
Hydro	2,507 MW
Distillate	0 MW
Total TNB	<u>5,298 MW</u>
Total IPP	<u>14,776 MW</u>
Total Co-Gen	<u>57 MW</u>
Total System	<u>20,695 MW</u>

### Generation Mix

Type	MWh	Percentage
Gas	39,931	12.20 %
Hydro	17,461	5.33 %
<b>Total TNB</b>	<b>57,392</b>	<b>17.53 %</b>
ST-Coal	180,956	55.27 %
Gas	88,385	26.99 %
<b>Total IPP</b>	<b>269,341</b>	<b>82.26 %</b>
Co-Gen	1,296	0.40 %
<b>Total Co-Gen</b>	<b>1,296</b>	<b>0.40 %</b>
<b>Total Generation</b>	<b>328,029</b>	<b>100.19 %</b>
PLTG	-123	-0.04 %
HVDC	732	0.22 %
<b>Interconnection</b>	<b>609</b>	<b>0.19 %</b>
<b>Net Energy</b>	<b>327,420</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	16,752 MW
TNB Generation	3,368 MW
IPP Generation	12,185 MW
Spinning Reserve	1,141 MW
Maximum Demand	15,613 MW
Net Energy	327,420 MWH
Load Factor	87.38 %

### Fuel Cost

Total Cost:	57,776,156.90 RM
Cost per Unit	18.60 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	264
Hydro	448
Syncon	537
Thermal	211
<b>Total</b>	<b>1,460</b>

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
GLGR	54
PGPS	25
TJGS	208
<b>Total TNB</b>	<b>286</b>
CBPS	52
KLPP	94
NPRI	154
PGLA	107
PLPS	92
SGRI	37
SKSP	4
YPKA	29
<b>Total IPP</b>	<b>568</b>
<b>Total Gas</b>	<b>854</b>
<b>Total Gas Required</b>	<b>854</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	12462	11781	11469	11163	11052	10967	11675	11916	12272	13665	14484	15114	14994	14616	15076	15418	15502	15292	14433	14405	15355	15052	14521	13887

Prepared By: Siti Nurhamizatul Aini

Checked By: -Select Name-

Printed on: Wednesday, January 17, 2018 1:43:41 AM

(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi



**Daily MW Generation on Tuesday**

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 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
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY02	23	23	23	23	23	23	13	13	13	13	13	13	13	13	23	23	23	23	23	23	23	23	23	
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNRG	HY02	37	37	37	37	38	37	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNYR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KNYR	HY02	61	56	59	58	59	59	58	59	61	58	59	58	61	63	61	60	60	60	60	58	90	101	95	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LPIA	HY01	22	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	24	24	22	
LPIA	HY02	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	16	16	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	7	7	7	7	7	7	7	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
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	
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	
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	
TMGR	HY02	35	34	31	31	33	33	31	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	
UPIA	HY02	5	5	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Total Hydro		225	219	221	222	226	225	244	216	217	214	214	213	217	219	237	216	216	316	316	528	677	1015	1186	
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	
PCUF	CUPG	24	23	24	23	25	24	24	24	25	26	24	24	23	21	22	22	23	24	25	24	24	24	24	
PCUF	CUPK	34	35	33	33	34	34	35	36	33	33	34	33	35	33	34	34	33	34	35	32	35	35	32	
Total Co-Gen		58	58	57	56	58	58	59	61	59	57	59	58	58	61	57	58	56	55	56	55	54	52	55	
Total Gen		12419	12071	11810	11533	11495	11367	11215	11205	11033	11087	10983	11258	11704	12055	12001	11952	12356	13133	13668	14116	14505	14869	15126	
TTE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TTE-HVDC		31	31	31	31	31	31	30	30	31	31	31	31	31	30	30	30	30	30	30	31	31	31	31	
TTE-PLTG		-74	17	-1	3	-6	21	-29	-19	-5	-16	43	-2	51	54	22	53	-20	-27	-42	-9	-5	-19		
Interconnection		-43	47	29	35	26	37	52	2	-19	26	16	74	29	82	85	53	84	10	3	-11	21	25		

**Daily MW Generation on Tuesday**

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																										
System Total		12462	12024	11781	11498	11469	11330	11163	11203	11052	11061	10967	11164	11675	11973	11916	11899	12272	13123	13665	14127	14484	14844	15114	15203	14994	14751	14616	14951	15076	15470	15418	15571	15502	15613	15292	14835	14433	14264	14405	15323	15385	15283	15052	14810	14521	14244	13887	13406		
SRev ST-Coal		442	500	499	411	406	417	418	428	426	396	409	411	417	427	411	423	414	400	343	310	286	273	217	195	202	192	202	199	191	182	186	184	179	176	186	176	199	181	196	161	171	176	187	181	184	158	173	143		
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		883	1030	1216	1487	1542	1653	1829	1800	1975	1949	2039	1761	1313	954	1048	1060	887	708	453	295	172	160	156	236	362	428	403	281	265	270	312	230	221	196	251	428	236	118	383	128	309	209	349	307	277	433	725	758		
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		-1	-1	0	1	-1	-1	-1	-2	-4	-2	0	-2	0	-2	-1	-1	-4	0	-1	1	2	1	2	3	5	2	1	2	0	0	-2	-2	1	-1	-2	1	0	-1	0	-2	11	21	23	20	20	21	18	21		
Syncon		1223	1223	1223	1223	1223	1223	1223	1287	1287	1287	1349	1349	1349	1349	1114	812	686	499	373	373	837	837	837	686	499	499	499	313	313	313	313	313	727	812	126	126	126	126	313	540	775	926	1162	1162						
Hydro		116	122	120	119	115	116	130	125	123	126	126	127	123	121	254	124	124	124	124	147	350	388	385	530	566	377	490	290	301	388	376	336	508	457	537	683	659	524	905	574	595	773	699	516	552	393	214	220		
S.Reserve Total		2663	2874	3058	3241	3285	3408	3599	3574	3807	3756	3861	3646	3202	2849	2910	2955	2770	2581	2268	1867	1622	1508	1259	1337	1508	1836	1933	1609	1443	1339	1371	1247	1222	1141	1285	1601	1821	1634	1610	987	1212	1305	1571	1564	1808	1931	2292	2304		