



## Daily System Generation Summary on Friday

Friday, January 19, 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>15,642 MW</u>
Total Co-Gen	<u>0 MW</u>
Total System	<u>21,504 MW</u>

### Generation Mix

Type	MWh	Percentage
Gas	38,239	11.30 %
Hydro	28,128	8.31 %
<b>Total TNB</b>	<b>66,367</b>	<b>19.61 %</b>
ST-Coal	182,934	54.06 %
Gas	88,286	26.09 %
<b>Total IPP</b>	<b>271,220</b>	<b>80.16 %</b>
Co-Gen	1,639	0.48 %
<b>Total Co-Gen</b>	<b>1,639</b>	<b>0.48 %</b>
<b>Total Generation</b>	<b>339,226</b>	<b>100.25 %</b>
PLTG	131	0.04 %
HVDC	728	0.22 %
<b>Interconnection</b>	<b>859</b>	<b>0.25 %</b>
<b>Net Energy</b>	<b>338,367</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:	15:00:00 Hour
Total Set On Bus	17,138 MW
TNB Generation	3,507 MW
IPP Generation	12,494 MW
Spinning Reserve	1,069 MW
Maximum Demand	16,043 MW
Net Energy	338,367 MWH
Load Factor	87.88 %

### Fuel Cost

Total Cost:	57,905,733.98 RM
Cost per Unit	18.61 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	490
Hydro	321
Syncon	591
Thermal	153
<b>Total</b>	<b>1,555</b>

Time	Weather	Temperature
Afternoon	Sunny	29
Morning	Cloudy	25

### Gas Usage

Station	(mmscfd)
GLGR	50
PGPS	33
TJGS	195
<b>Total TNB</b>	<b>278</b>
CBPS	54
KLPP	93
NPRI	155
PGLA	108
PLPS	75
SGRI	35
SKSP	52
YPKA	29
<b>Total IPP</b>	<b>601</b>
<b>Total Gas</b>	<b>879</b>
<b>Total Gas Required</b>	<b>879</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	13500	12834	12409	12110	11902	11790	12023	12326	12534	14083	14887	15475	15484	15150	15339	16043	15948	15640	14717	14567	15370	15168	14666	14137

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(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi





Daily MW Generation on Friday

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	31	31	31	31	30	30	31	31	31	31	30	30	31	31	30	30	31	31	30	30	30	30	31	31	30	30	31	31	30	30	30	30	30															
TIE-PLTG		18	12	-24	-2	0	-15	-7	-32	-12	-7	-41	-2	35	44	6	-22	-1	-43	-53	-97	-59	-24	10	-16	15	2	24	9	-7	0	-4	67	36	70	42	49	12	50	26	17	36	20	-4	70	88	14	0	-37				
Interconnection		48	41	6	28	31	15	24	-2	18	23	-10	29	66	73	37	8	30	-12	-23	-67	-28	7	41	14	45	32	54	39	23	31	26	97	67	101	73	79	42	80	56	48	67	50	26	101	118	44	31	-7				
System Total		13500	13135	12834	12597	12409	12212	12110	11975	11902	11801	11790	11817	12023	12339	12326	12354	12534	13464	14083	14435	14887	15223	15475	15807	15484	15275	15150	15187	15339	15708	16063	15960	15948	15865	15640	15116	14717	14347	14567	15397	15370	15392	15168	14974	14666	14375	14137	13893				
SRev ST-Coal		112	139	111	126	266	273	274	263	276	273	292	282	217	239	248	238	223	284	273	161	178	125	108	156	142	136	127	137	95	129	147	132	191	107	131	111	42	130	134	140	143	135	139	137	146	134	142					
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		843	620	913	1067	1113	1314	1264	1382	1448	1568	1497	1418	1419	1286	1235	1251	1576	1148	574	708	613	529	370	338	367	454	445	437	290	273	157	397	455	492	677	776	699	789	690	662	757	542	568	553	664	903	1031	902				
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
SRev Co-Gen		-7	-8	-13	-12	-11	-15	-13	-14	-15	-14	-12	-13	-14	-14	-14	-15	-14	-15	-12	-11	-11	-9	-9	-10	-9	-12	-10	-11	-11	-10	-11	-11	-12	-10	-12	-9	-10	-10	-9	-10	-11	-9	-9	-10	-10	-12	-11	-9				
Syncon		525	525	827	827	827	827	827	827	676	827	827	827	827	827	827	827	827	827	953	676	676	525	525	525	525	676	802	802	1079	651	525	525	374	187	187	489	802	1113	1113	523	397	397	735	735	735	1037	1037	850				
Hydro		394	463	87	70	62	49	40	169	172	288	253	247	65	8	197	436	447	216	247	227	232	150	310	306	320	321	304	300	174	383	269	188	334	435	526	559	537	537	516	534	568	556	298	229	361	171	159	166				
S.Reserve Total		1867	1739	1925	2078	2257	2441	2391	2638	2695	2794	2838	2771	2579	2324	2484	2747	3074	2399	1920	2150	1671	1524	1321	1267	1359	1381	1677	1655	1669	1392	1069	1246	1283	1295	1485	1946	2139	2471	2440	1843	1851	1629	1727	1646	1887	2245	2350	2851				