

## Daily System Generation Summary on Friday

Friday, May 20, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,490 MW
Hydro	1,855 MW
Distillate	0 MW
Total TNB	5,345 MW
Total IPP	13,524 MW
Total Co-Gen	27 MW
Total System	18,896 MW

### Maximum Demand Record

Date: 4/20/2016	17,788 MW
Date: 4/20/2016	372,457 MWH

### Gas Usage

Station	(mmscfd)
CBPS	59
GLGR	54
PAKA	143
PGPS	51
SRDG	2
TJGS	214
<b>Total TNB</b>	<b>523</b>
CBPS	18
KLPP	75
NPRI	149
PGLA	108
PLPS	96
PTEK	10
SGB3	77
SGRI	195
SKSP	50
PKLG	68
<b>Total IPP</b>	<b>847</b>
<b>Total Gas</b>	<b>1,370</b>
<b>Total Gas Required</b>	<b>1,386</b>

### Alternate Fuel Usage

Station	(mmscfd)
PKLG	16
<b>Total</b>	<b>16</b>

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

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	17,894 MW
TNB Generation	3,813 MW
IPP Generation	12,590 MW
Spinning Reserve	1,473 MW
Maximum Demand	16,396 MW
Net Energy	351,761 MWH
Load Factor	89.39 %

### Generation Mix

Type	MWh	Percentage
Gas	68,285	19.41 %
Hydro	8,299	2.36 %
<b>Total TNB</b>	<b>76,584</b>	<b>21.77 %</b>
ST-Coal	162,967	46.33 %
ST-Gas	6,749	1.92 %
ST-Oil	1,595	0.45 %
Gas	103,116	29.31 %
<b>Total IPP</b>	<b>274,427</b>	<b>78.02 %</b>
Co-Gen	420	0.12 %
<b>Total Co-Gen</b>	<b>420</b>	<b>0.12 %</b>
<b>Total Generation</b>	<b>351,431</b>	<b>99.91 %</b>
PLTG	367	0.10 %
HVDC	-697	-0.20 %
<b>Interconnection</b>	<b>-330</b>	<b>-0.09 %</b>
<b>Net Energy</b>	<b>351,761</b>	<b>100.00 %</b>

### Fuel Cost

Total Cost:	50,495,122.60 RM
Cost per Unit	14.72 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	450
Hydro	334
Syncon	602
Thermal	143
<b>Total</b>	<b>1,529</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

### 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	14562	13870	13340	12894	12589	12518	12537	12330	12691	14435	15470	16056	16127	15542	15776	16370	16381	16055	15030	14843	15954	15720	15317	14947

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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
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	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	0
TMGR	HY01	34	36	32	32	33	32	32	31	29	33	33	34	30	32	35	34	33	34	26	34	37	37	39	39
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPLA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		216	192	258	176	181	175	174	174	171	166	174	174	178	181	196	177	186	182	182	182	182	394	526	704
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
PCUF	CUFG	3	3	1	2	1	2	2	2	2	2	2	2	3	1	1	0	0	0	0	0	0	0	0	0
PCUF	CUFK	16	17	17	16	16	17	16	16	17	16	17	17	16	18	17	16	17	18	17	18	17	16	16	16
Total Co-Gen		19	20	18	18	17	19	18	18	19	18	19	18	18	20	20	18	17	17	17	17	17	16	16	18
Total Gen		14507	14193	13842	13545	13316	13059	12910	12728	12607	12593	12503	12439	12538	12616	12298	12201	12740	13777	14399	14996	15481	15732	16046	16262
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
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		-26	-41	2	2	5	-11	46	11	47	104	14	24	30	36	-3	-5	77	22	-7	20	41	10	19	-10
Interconnection		-55	-69	-28	-27	-24	-40	16	-18	18	76	-15	-5	1	7	-32	-34	49	-7	-36	-8	11	-20	-10	-39
System Total		14562	14262	13870	13572	13340	13099	12894	12746	12589	12517	12518	12444	12537	12609	12330	12335	12691	13784	14435	15004	15470	15752	16056	16301
SRev ST-Coal		158	213	216	218	208	215	187	167	169	131	199	180	169	144	218	201	213	214	204	212	156	157	120	123
SRev ST-Oil		-2	-2	1	30	37	37	37	37	37	38	38	37	37	38	41	41	41	38	0	0	0	0	0	0
SRev CCGT-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
SRev CCGT-Gas		693	534	880	919	1115	1380	1556	1755	1874	1921	2043	2154	2067	2020	2343	2522	1680	1054	773	522	380	274	280	284
SRev ST-Gas		-1	-1	2	37	34	37	37	37	37	37	37	37	37	37	34	35	35	37	21	-5	-19	-1	3	9
SRev Co-Gen		8	7	9	9	10	8	9	9	8	9	8	8	9	9	7	7	9	10	10	10	10	11	9	10
Syncon		804	804	653	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804	804
Hydro		85	110	195	126	121	127	128	128	131	136	128	128	124	121	257	125	116	120	120	120	258	429	226	211
S.Reserve Total		1746	1665	1956	2143	2329	2608	2758	2937	3060	3075	3257	3349	3247	3172	3553	3734	2898	2278	1986	1689	1603	1402	1222	1214