

## Daily System Generation Summary on Friday

Friday, November 11, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,502 MW
Hydro	2,137 MW
Distillate	0 MW
<b>Total TNB</b>	<b>4,639 MW</b>
<b>Total IPP</b>	<b>15,261 MW</b>
<b>Total Co-Gen</b>	<b>20 MW</b>
<b>Total System</b>	<b>19,920 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	46,987	14.16 %
Hydro	8,832	2.66 %
<b>Total TNB</b>	<b>55,819</b>	<b>16.82 %</b>
ST-Coal	180,455	54.37 %
ST-Gas	131	0.04 %
Gas	94,105	28.35 %
<b>Total IPP</b>	<b>274,691</b>	<b>82.76 %</b>
Co-Gen	436	0.13 %
<b>Total Co-Gen</b>	<b>436</b>	<b>0.13 %</b>
<b>Total Generation</b>	<b>330,946</b>	<b>99.71 %</b>
PLTG	-259	-0.08 %
HVDC	-692	-0.21 %
<b>Interconnection</b>	<b>-951</b>	<b>-0.29 %</b>
<b>Net Energy</b>	<b>331,897</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:	11:30:00 Hour
Total Set On Bus	16,994 MW
TNB Generation	3,044 MW
IPP Generation	12,564 MW
Spinning Reserve	1,366 MW
Maximum Demand	15,659 MW
Net Energy	331,897 MWH
Load Factor	88.31 %

### Fuel Cost

Total Cost:	45,288,644.25 RM
Cost per Unit	14.11 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	428
Hydro	276
Syncon	736
Thermal	179
<b>Total</b>	<b>1,619</b>

### Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

### Gas Usage

Station	(mmscfd)
CBPS	44
GLGR	15
PAKA	180
PGPS	27
SRDG	5
TJGS	103
<b>Total TNB</b>	<b>375</b>
KLPP	93
MPSS	51
NPRI	138
PGLA	101
PKLG	1
PKLG	1
PLPS	91
PTEK	3
SGRI	186
SKSP	50
<b>Total IPP</b>	<b>715</b>
<b>Total Gas</b>	<b>1,090</b>
<b>Total Gas Required</b>	<b>1,090</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	13267	12630	12256	11830	11655	11625	11773	11865	12230	13817	14811	15505	15523	14958	15154	15423	15489	15150	14403	14679	14977	14662	14178	13667

Prepared By: Kannathason a/ Karupiah

Checked By: -Select Name-

Printed on: Saturday, November 12, 2016 1:36:02 AM  
(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																									
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	-1																									
TMGR	HY02	34	29	38	38	33	33	34	36	35	32	30	33	36	36	40	37	32	30	31	34	34	28	29	30	35	35	29	33	32	30	31	36	37	34	30	30	34	36	34	32	28	30							
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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1						
UJLI	HY01	92	94	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	94	95	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3					
Total Hydro		366	357	292	190	176	173	192	209	180	175	170	173	193	242	216	185	170	168	205	191	273	578	697	808	780	581	497	495	522	651	685	673	1047	723	596	301	191	209	243	419	259	259	270	270	289	262	254	259	
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	
PCUF	CUFK	18	18	19	18	18	18	19	19	18	18	18	18	19	17	19	18	18	17	19	18	18	18	20	18	19	18	18	18	19	18	18	17	18	18	19	19	17	18	18	17	18	18	18	17	18	19	19		
Total Co-Gen		18	18	19	18	18	18	18	19	19	18	18	18	18	18	19	18	18	18	20	18	19	18	18	18	18	18	18	19	18	18	17	18	18	18	19	19	17	18	18	17	18	18	18	17	18	18	19	19	
Total Gen		13233	12755	12564	12434	12238	12093	11771	11714	11634	11555	11571	11617	11731	11881	11827	11674	12206	13065	13752	14287	14777	15221	15455	15828	15474	15180	14959	14948	15107	15294	15369	15424	15469	15461	15153	14739	14366	14156	14642	15128	14980	14861	14625	14484	14147	13864	13623	13357	
TIE-RCAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	-28	-28	-29	-29	-28	-28	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-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		-5	-45	-37	-8	11	87	-30	-36	8	-30	-25	-21	-14	2	-8	-28	4	10	-36	-41	-4	-49	-21	-2	-20	-9	30	-6	-18	-35	-25	-55	8	-31	31	-10	-8	-43	-9	-5	32	24	-8	23	-2	-13	-16	-18	
Interconnection		-34	-74	-66	-35	-18	39	-59	-64	-21	-59	-54	-50	-42	-27	-38	-57	-24	-19	-65	-70	-34	-78	-50	-31	-49	-38	1	-35	-47	-64	-54	-83	-20	-60	3	-39	-37	-72	-37	-34	3	-5	-37	-7	-31	-42	-44	-47	
System Total		13257	12829	12630	12449	12256	12054	11830	11778	11655	11614	11625	11667	11773	11909	11865	11731	12230	13084	13817	14357	14811	15299	15505	15659	15523	15218	14959	14983	15154	15358	15423	15507	15489	15521	15150	14778	14403	14228	14679	15162	14977	14866	14662	14491	14178	14086	13667	13484	
SRev ST-Coal		166	206	215	216	225	214	212	216	204	205	213	195	202	201	212	208	219	228	195	189	102	221	189	188	237	177	175	182	166	182	176	157	181	221	195	156	119	184	185	84	100	99	197	214	209	201	207	269	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	-9	-8	-8	13	14	13	13	13	13	13	12	11	13	13	94	20	32	153	11	13	12	104	74	11	42	43	42	58	0	0	
SRev CCGT-Gas		953	1187	1225	1265	1405	1562	1903	1973	2036	2106	2076	2052	1952	1859	1870	1996	1931	1653	1144	754	442	381	297	239	293	290	458	470	345	283	275	260	362	91	196	234	412	571	251	322	461	432	550	423	487	552	663	430	
SRev ST-Gas		37	34	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		2	2	1	2	2	2	1	1	2	2	2	2	2	1	3	1	2	2	3	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1
Syncon		975	975	1152	1349	1349	1349	1349	1349	1349	1349	1198	1349	1349	1349	975	824	824	874	874	723	622	622	622	748	748	597	748	597	748	302	663	874	874	975	975	975	975	849	849	849	849	849	698	849	849	849	849		
Hydro		309	318	196	111	125	128	109	243	121	126	124	121	108	210	85	116	131	136	250	114	207	177	309	299	277	276	234	236	360	330	447	308	617	493	250	204	113	95	61	113	124	124	113	113	245	121	129	124	
S.Reserve Total		2447	2727	2855	2938	3111	3260	3580	3636	3716	3793	3769	3724	3618	3471	3524	3675	3637	3049	2412	1879	1624	1673	1539	1366	1448	1374	1635	1656	1487	1560	1513	1493	1564	1495	1563	1727	1636	1846	1491	1605	1616	1522	1758	1649	1689	1788	1854	1678	