

## Daily System Generation Summary on Monday

Monday, July 11, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,619 MW
Hydro	1,986 MW
Distillate	0 MW
<b>Total TNB</b>	<b>5,605 MW</b>
<b>Total IPP</b>	<b>14,622 MW</b>
<b>Total Co-Gen</b>	<b>0 MW</b>
<b>Total System</b>	<b>20,791 MW</b>

### Generation Mix

Type	MWh	Percentage
Gas	45,910	13.72 %
Hydro	7,216	2.16 %
<b>Total TNB</b>	<b>53,126</b>	<b>15.87 %</b>
ST-Coal	167,176	49.95 %
Gas	112,739	33.68 %
<b>Total IPP</b>	<b>279,915</b>	<b>83.63 %</b>
Co-Gen	967	0.29 %
<b>Total Co-Gen</b>	<b>967</b>	<b>0.29 %</b>
<b>Total Generation</b>	<b>334,008</b>	<b>99.79 %</b>
PLTG	-182	-0.05 %
HVDC	-508	-0.15 %
<b>Interconnection</b>	<b>-690</b>	<b>-0.21 %</b>
<b>Net Energy</b>	<b>334,698</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:	15:30:00 Hour
Total Set On Bus	17,533 MW
TNB Generation	2,803 MW
IPP Generation	13,243 MW
Spinning Reserve	1,451 MW
Maximum Demand	16,260 MW
Net Energy	334,698 MWH
Load Factor	85.77 %

### Fuel Cost

Total Cost:	45,023,845.70 RM
Cost per Unit	13.77 cents/kWH

### Average Spinning Reserve During Peak Hour

Type	MW
GT	479
Hydro	179
Syncon	863
Thermal	36
<b>Total</b>	<b>1,557</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

### Gas Usage

Station	(mmscfd)
GLGR	46
PAKA	29
PGPS	32
SRDG	10
TJGS	218
<b>Total TNB</b>	<b>335</b>
CBPS	55
KLPP	111
MPSS	34
NPRI	146
PGLA	104
PLPS	100
PTEK	22
SGB3	56
SGRI	167
SKSP	33
<b>Total IPP</b>	<b>828</b>
<b>Total Gas</b>	<b>1,162</b>
<b>Total Gas Required</b>	<b>1,162</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	12896	12332	11846	11559	11296	11077	11245	11175	11863	13837	14799	15513	15535	15281	15873	16160	16254	15954	14664	14229	15440	15436	15159	14738

Prepared By: Siti Nurhamizatul Aini

Checked By: -Select Name-

Printed on: Tuesday, July 12, 2016 5:43:57 AM

(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi





### Daily MW Generation on Monday

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	HY02	30	32	30	35	34	32	34	32	32	31	34	32	34	32	32	33	35	32	30	30	36	36	37	31	31	30	33	33	30	32	39	41	84	34	32	30	24	26	42	33	36	34	36	29	29	31	37			
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	-1	-1	-1	-1			
UJLI	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187	187	187	187	187	187	187	186	186	186	186	176	140	86	41	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UPIA	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	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		161	163	159	187	164	161	164	161	161	161	160	163	163	164	161	161	163	189	300	409	406	654	607	610	541	350	346	349	490	585	406	353	369	382	171	161	154	141	145	201	400	547	545	459	449	251	160	168		
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	
PCUF	CUFG	16	16	23	26	26	22	23	23	23	24	24	24	25	27	25	25	24	22	20	19	19	21	20	19	19	19	19	19	19	26	27	27	27	27	27	27	26	26	26	26	26	26	26	26	27	25				
PCUF	CUFK	17	17	16	17	18	18	18	16	16	17	16	17	16	17	16	17	17	18	17	17	17	16	16	16	16	16	16	16	17	16	17	16	17	16	17	16	17	16	17	16	17	18	17	18	17	17	19			
Total Co-Gen		33	33	39	43	44	40	39	40	39	40	41	40	42	44	41	42	41	41	39	38	36	36	38	36	35	37	35	35	36	36	42	44	43	44	43	44	43	43	43	42	43	44	43	44	43	44	44			
Total Gen		12919	12618	12402	12152	11849	11677	11579	11409	11339	11112	11161	11183	11291	11377	11216	11229	11875	12983	13778	14243	14654	15192	15349	15522	15412	15252	15164	15360	15747	16032	16028	16082	16118	16118	15889	15270	14621	14229	14131	14872	15484	15531	15479	15417	15249	14850	14799	14453		
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	0	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		30	30	30	31	31	30	30	30	30	30	30	30	30	30	29	29	-98	-98	0	-99	-98	-98	-99	-99	-98	-98	-97	-97	-99	-99	-96	-96	-97	-97	-98	-98	29	29	31	31	31	30	30	30	30	30				
TIE-PLTG		-7	-7	40	22	-28	8	-10	34	13	13	55	18	16	37	11	-17	-18	-118	-88	-83	-47	-40	-66	-59	-25	-24	-18	-62	-28	-10	-35	-79	-37	-37	31	28	54	62	0	-10	15	-12	12	67	60	-5	30	-21		
Interconnection		23	24	70	53	3	38	20	64	43	43	84	48	46	68	41	13	12	-88	-59	-180	-145	-40	-164	-156	-123	-123	-117	-160	-126	-107	-132	-178	-136	-133	-65	-69	-43	-36	-98	20	44	19	43	97	90	25	61	9		
System Total		12896	12594	12332	12099	11846	11639	11559	11345	11296	11069	11077	11135	11245	11309	11175	11216	11863	13071	13837	14423	14799	15232	15513	15678	15535	15375	15281	15520	15873	16139	16160	16260	16254	16251	15994	15339	14664	14265	14229	14852	15440	15512	15436	15320	15159	14825	14738	14444		
SRev ST-Coal		195	212	213	333	332	248	248	258	260	264	246	252	202	207	207	197	204	218	159	120	129	114	24	-6	15	-2	-4	4	-2	7	-6	3	6	3	5	1	0	-4	-4	13	8	28	29	24	35	22	20	18		
SRev OCGT-Gas		9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	79	6	78	77	76	36	7	8	8	5	4	5	153	80	78	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		256	287	501	411	681	926	1020	1180	1246	1470	1434	1698	1592	1501	1752	2179	1290	571	485	711	485	390	699	484	623	596	682	484	553	556	394	278	264	283	297	640	1016	1402	1473	771	362	443	508	488	636	655	618	661		
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	
SRev Co-Gen		-6	-6	-12	-16	-17	-17	-13	-12	-12	-13	-12	-13	-14	-13	-15	-17	-14	-15	-14	-14	-12	-11	-9	-9	-11	-9	-8	-10	-8	-8	-9	-9	-15	-17	-16	-17	-16	-17	-16	-16	-15	-16	-17	-16	-17	-16	-17			
Syncon		925	925	925	774	925	925	925	925	925	925	925	925	925	925	799	799	648	698	698	698	698	799	799	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	925	
Hydro		141	139	143	266	138	148	145	148	148	149	146	146	145	148	149	147	272	111	182	185	137	258	255	205	146	150	147	231	150	193	246	141	107	138	148	155	168	164	259	153	131	133	219	229	265	142	134			
S.Reserve Total		1520	1557	1770	1768	2059	2230	2325	2499	2567	2794	2742	3008	2851	2765	3017	3307	2426	1694	1439	1697	1485	1328	1775	1602	1763	1734	1822	1626	1735	1637	1505	1451	1326	1305	1354	1850	2160	2552	2542	1801	1433	1511	1578	1640	1808	1700	1688	1721		