

## Daily System Generation Summary on Wednesday

Wednesday, July 27, 2016

### Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,589 MW
Hydro	2,039 MW
Distillate	0 MW
Total TNB	<u>5,628 MW</u>
Total IPP	<u>14,040 MW</u>
Total Co-Gen	<u>24 MW</u>
Total System	<u>20,256 MW</u>

### 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:	14:30:00 Hour
Total Set On Bus	17,856 MW
TNB Generation	3,895 MW
IPP Generation	12,369 MW
Spinning Reserve	1,579 MW
Maximum Demand	16,265 MW
Net Energy	340,536 MWH
Load Factor	87.24 %

### Gas Usage

Station	(mmscfd)
CBPS	47
GLGR	32
PAKA	84
PGGS	7
PGPS	43
SRDG	26
TJGS	219
<b>Total TNB</b>	<b>458</b>

### Alternate Fuel Usage

Station	(mmscfd)
<b>Total</b>	<b>0</b>

### Generation Mix

Type	MWh	Percentage
Gas	59,580	17.50 %
Hydro	10,783	3.17 %
<b>Total TNB</b>	<b>70,363</b>	<b>20.66 %</b>
ST-Coal	156,249	45.88 %
Gas	113,874	33.44 %
<b>Total IPP</b>	<b>270,123</b>	<b>79.32 %</b>
Co-Gen	305	0.09 %
<b>Total Co-Gen</b>	<b>305</b>	<b>0.09 %</b>
<b>Total Generation</b>	<b>340,791</b>	<b>100.07 %</b>
PLTG	-470	-0.14 %
HVDC	725	0.21 %
Interconnection	255	0.07 %
<b>Net Energy</b>	<b>340,536</b>	<b>100.00 %</b>

### Fuel Cost

#### Average Spinning Reserve During Peak Hour

Type	MW
GT	351
Hydro	185
Syncon	612
Thermal	287
<b>Total</b>	<b>1,435</b>

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

CBPS	19
KLPP	100
MPSS	53
NPRI	157
PDPS	30
PGLA	118
PKLG	18
PLPS	100
PTEK	22
SGB3	3
SGRI	200
SKSP	53
<b>Total IPP</b>	<b>873</b>
<b>Total Gas</b>	<b>1,331</b>

**Total Gas Required 1,331**

### 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	13425	12840	12425	12010	11650	11599	11869	11968	12442	14194	15082	15752	15786	15288	15908	16126	16184	15820	14701	14464	15563	15511	14894	14473

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(Gurcharan Singh)  
Pengurus Besar Kanan  
Jabatan Sistem Operasi



**Daily MW Generation on Wednesday**

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
SCB3	GT33	132	124	142	101	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	ST34	68	63	67	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT11	136	114	137	125	132	127	130	116	111	124	119	135	138	138	138	111	128	140	140	140	139	139	138	138
SGRI	GT12	139	117	150	133	137	134	134	122	117	129	123	142	148	149	142	116	137	154	152	150	151	150	150	150
SGRI	GT13	137	97	0	0	0	0	0	0	0	0	0	0	0	0	0	89	134	132	133	133	132	132	133	131
SGRI	ST14	219	205	158	147	147	145	145	138	138	143	143	149	152	152	146	136	142	181	221	225	220	220	221	222
SGRI	GT21	137	0	0	0	0	0	0	0	0	0	0	0	0	0	86	136	136	136	136	135	135	135	135	134
SGRI	GT22	145	141	142	142	142	130	111	111	111	72	72	71	71	71	71	135	144	142	140	141	141	141	141	141
SGRI	GT23	140	135	138	138	138	127	105	105	105	65	65	65	65	65	65	121	141	139	139	138	138	138	138	138
SGRI	ST24	216	176	148	148	147	143	131	132	129	99	96	96	97	97	96	96	138	184	218	222	218	220	216	215
SKSP	BLK1	330	322	336	324	333	223	226	224	218	257	237	268	343	342	285	271	344	342	282	222	341	313	324	323
TJCS	GT1A	220	220	220	220	228	225	223	227	219	227	228	227	227	227	228	226	226	226	225	225	225	225	225	225
TJGS	GT1B	217	217	217	217	222	221	218	220	214	222	221	222	222	222	219	222	220	218	217	217	217	217	217	217
TJGS	ST1C	247	247	247	247	250	250	250	250	251	251	251	251	251	251	251	251	252	244	252	252	252	252	252	252
TJGS	GT2A	214	214	214	214	214	214	184	184	184	184	184	184	184	184	207	215	215	215	215	215	212	212	212	212
TJGS	GT2B	211	211	211	211	211	211	180	180	180	180	180	180	180	180	204	210	210	210	210	210	210	210	210	210
TJGS	ST2C	257	257	257	257	257	257	236	236	236	236	236	236	236	257	257	257	257	257	257	257	257	257	257	257
Total CCGT-Gas		6797	6456	6259	5992	5906	5606	5476	5331	5113	5203	5103	5267	5381	5449	5535	5459	5973	6587	7110	7182	7426	7418	7415	7416
PDPS	CT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	107	106	99	103	96	78	66	70
PDPS	CT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	106	106	97	100	95	75	63	100
PDPS	CT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	108	108	98	100	98	76	70	100
PDPS	CT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	91	98	85	64	64	77	94	64
PGGS	CT6A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	98	98	98	99	99	98	99	99
PKLG	CT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	95	94	94	92	92	93	93	93
PKLG	CT09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	101	100	100	100	100	100	100	100
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	73	98	78	85	98	84	69	68
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	72	102	73	87	103	86	70	70
SRDC	CT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	129	131	130	129	131	129	127	130
SRDC	CT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	122	124	122	122	120	122	119	120
Total CCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	365	865	971	1107	1098	1143	1086	970	941
BSIA	HY01	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
BSIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	23	23	23	23	23	23
BSIA	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
CEND	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
CEND	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
CEND	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
HTRC	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	128	125	62	63	64	125	126	125
HTRC	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	65	64	64	-1	-1	
KNRC	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	38	38	37	37	37
KNRC	HY03	28	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
KNYR	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
KNYR	HY02	58	58	61	58	58	58	58	57	59	59	59	63	66	60	59	66	101	100	99	99	99	99	99	99
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	-1
KNYR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	101	101	101	60	57	60	103
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Daily MW Generation on Wednesday**

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	
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	-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	-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	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	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	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	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	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	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	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	HY02	34	31	34	32	32	33	32	33	31	33	29	34	39	84	35	35	44	84	84	83	84	82	82	82	82
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	
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	
UJLI	HY02	95	95	95	95	95	95	95	95	-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	
Total Hydro		265	255	261	256	258	257	256	258	254	162	158	163	172	303	188	164	181	627	576	406	410	649	1004	1028	
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	CUFK	15	13	14	14	13	13	13	15	12	13	14	13	14	12	12	13	13	12	13	14	13	14	14	13	
Total Co-Gen		15	13	14	14	13	13	13	15	12	13	14	13	14	12	12	13	13	12	13	14	13	14	14	13	
Total Gen		13378	13018	12826	12569	12425	12123	11999	11890	11675	11690	11586	11746	11873	12064	12044	11931	12373	13354	14209	14833	15048	15498	15790	15865	
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		30	30	29	29	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	
TIE-PLTG		-77	-68	-43	-57	-30	-84	-42	-38	-5	-18	-43	-10	-25	12	46	-5	-99	19	-15	-25	-65	-4	7		
Interconnection		-47	-38	-14	-27	1	-54	-11	-7	25	12	-13	20	6	43	76	25	-69	49	15	5	-34	27	38		
System Total		13425	13055	12840	12596	12425	12177	12010	11897	11650	11678	11599	11726	11869	12021	11968	11906	12442	13305	14194	14628	15082	15421	15752		
SRev ST-Coal		282	289	291	276	334	336	329	297	287	271	272	280	275	283	274	288	332	300	280	366	279	247	248		
SRev OCCT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	195	122	15	92	101	56		
SRev CCCT-Gas		298	337	222	489	439	596	726	871	1089	999	1099	935	821	753	667	743	716	769	357	370	129	165	191		
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		
SRev Co-Gen		9	11	10	10	11	11	11	9	12	11	10	11	10	12	12	11	7	8	7	6	7	6	6		
Syncon		714	714	714	714	714	714	714	714	714	810	810	895	895	744	744	806	806	444	444	595	595	721	393		
Hydro		129	139	133	138	136	137	138	136	140	136	140	134	125	145	260	133	116	32	83	102	98	105	235		
S.Reserve Total		1432	1490	1370	1627	1634	1794	1918	2027	2242	2227	2331	2255	2126	1937	1957	1981	1977	1553	1366	1561	1124	1336	1174		