

Daily System Generation Summary on Tuesday

Tuesday, July 17, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,099 MW
Hydro	2,194 MW
Distillate	0 MW
Total TNB	4,293 MW
Total IPP	15,792 MW
Total Co-Gen	45 MW
Total System	20,702 MW

Generation Mix

Type	MWh	Percentage
Gas	33,093	8.70 %
Hydro	14,288	3.76 %
Total TNB	47,381	12.46 %
ST-Coal	204,833	53.88 %
Gas	126,342	33.23 %
Total IPP	331,175	87.11 %
Co-Gen	958	0.25 %
Total Co-Gen	958	0.25 %
Total Generation	379,514	99.83 %
PLTG	36	0.01 %
HVDC	-696	-0.18 %
Interconnection	-660	-0.17 %
Net Energy	380,174	100.00 %

Maximum Demand Record

Date: 6/6/2018	18,010 MW
Date: 6/7/2018	382,778 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:00:00 Hour
Total Set On Bus	19,285 MW
TNB Generation	2,745 MW
IPP Generation	15,003 MW
Spinning Reserve	1,499 MW
Maximum Demand	17,840 MW
Net Energy	380,174 MWH
Load Factor	88.79 %

Fuel Cost

Total Cost:	67,771,457.18 RM
Cost per Unit	18.56 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	390
Hydro	496
Syncon	472
Thermal	160
Total	1,518

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
CBPS	38
GLGR	54
PGPS	40
SRDG	6
TJGS	108
Total TNB	246
CBPS	53
KLPP	94
MPSS	48
NPRI	155
PGLA	107
PLPS	73
PTEK	20
SGB3	59
SGRI	93
SKSP	54
YPKA	81
Total IPP	837
Total Gas	1,083
Total Gas Required	1,083

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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	15584	14893	14313	13985	13584	13378	13348	13379	13720	15678	16582	17174	17136	16831	17436	17840	17827	17553	16238	15915	17196	17178	16771	16448

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, August 03, 2018 12:08:02 PM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Tuesday

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		
SGRI	GT12	111	142	122	112	114	108	75	69	71	69	70	74	70	72	70	75	70	140	140	113	139	139	139	138	134	137	137	137	137	136	136	137	136	136	138	134	137	123	121	132	123	121	135	139	125	118	121	109	115
SGRI	GT13	109	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	111	135	134	135	135	130	133	133	133	134	134	133	132	132	132	133	119	119	131	120	122	134	135	122	116	118	108	112		
SGRI	ST14	206	188	137	132	135	131	107	102	104	103	103	102	104	104	100	104	109	152	198	198	214	220	220	218	220	219	220	225	220	218	224	222	222	217	219	220	213	205	205	205	210	212	220	214	207	207	210	201	
SKSP	BLK1	220	220	338	333	342	279	342	325	300	217	271	230	218	279	254	344	309	333	351	345	305	345	346	345	319	273	345	350	344	325	342	342	337	233	228	240	254	284	229	287	289	338	283	266	346	314	331		
TJGS	GT2A	220	220	221	220	221	221	221	221	221	221	222	221	221	222	199	147	218	217	217	217	217	217	216	217	216	217	216	217	218	216	216	216	217	216	215	216	215	216	217	217	217	217	217	217	217	216			
TJGS	GT2B	219	219	219	219	219	219	219	219	219	219	219	219	219	219	220	197	145	216	215	215	215	215	215	215	214	214	215	215	215	214	214	215	215	215	215	215	213	215	215	215	215	215	215	214	214	214			
TJGS	ST2C	263	263	263	263	263	263	263	263	263	262	262	262	262	262	260	210	259	259	260	260	260	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261	261		
YPKA	GT11	132	130	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	130	130	128	129	130	129	126	129	129	128	129	129	129	129	129	128	128	128	129	127	129	128	129	129	128	130	129	129	128	129
YPKA	GT12	134	134	135	135	67	66	67	66	66	67	66	67	67	67	66	67	66	125	131	131	129	129	129	129	129	128	129	129	129	129	129	129	129	129	127	129	129	128	130	126	129	129	129	129	129	128	130	129	130
YPKA	ST10	128	121	59	58	34	33	34	34	33	32	32	32	32	32	32	32	33	74	125	126	125	124	126	126	126	127	128	126	127	126	127	126	126	124	125	125	125	125	125	125	125	125	125	125	125	125	124		
YPKA	GT21	130	131	131	99	65	65	66	65	65	65	65	65	65	65	65	65	64	65	124	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	123	128	128	128	128	129	129	130	130			
YPKA	ST20	66	66	66	55	41	41	41	41	41	41	41	41	41	41	41	41	41	63	63	63	63	63	63	63	63	64	64	64	64	64	64	64	64	63	63	63	63	64	42	42	65	65	65	66	66	66			
Total CCGT-Gas		6625	6284	5909	5633	5326	5128	5198	5002	4873	4754	4720	4667	4781	5005	4752	4694	5064	5875	6522	6853	7365	7555	7656	7663	7605	7551	7500	7710	7731	7725	7580	7580	7635	7631	7368	7165	6986	6834	6933	7141	7273	7323	7368	7295	7199	7273	7122	7049	
PTEK	GT1A	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	13	103	102	102	101	102	101	80	78	49	68	104	104	104	104	105	59	0	0		
PTEK	GT2A	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	105	104	104	104	104	104	104	94	57	0	0	0	0	0	0	0	0	0	0	0	
PTEK	GT2B	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	54	104	104	104	104	104	104	104	80	0	0	0	0	0	0	0	0	0	0	0	0	
SRDG	GT04	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	123	122	122	123	123	122	121	0	0	0	0	0	0	0	0	0	0	0	0	
Total 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	54	332	343	433	432	434	432	432	430	254	135	49	68	104	104	104	104	105	59	0	0
BSIA	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	13	13	13	23	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	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	13	13	13	23	23	23	23	23	23	23	23	23		
CEND	HY01	7	7	8	7	7	7	8	7	8	7	7	7	7	8	7	8	8	7	7	7	7	7	8	7	7	7	7	8	7	7	7	8	8	7	7	8	7	7	8	7	8	8	7	7	7	7			
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
HTRG	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
HTRG	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
KNRG	HY01	0	0	0	0	27	26	27	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	23	35	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	35	36	35	35	36	35	23	0	
KNRG	HY02	27	28	28	28	0	0	0	0	25	25	25	25	25	25	25	25	26	25	25	25	25	25	24	24	36	25	25	26	26	26	26	25	25	25	25	25	25	25	25	25	26	37	36	36	36	25	26		
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	36	22	22	23	22	22	22	22	22	22	22	22	22	22	22	22	22	36	36	36	36	36	22	0		
KNYR	HY02	60	58	62	62	60	96	103	98	101	98	100	100	98	102	100	101	100	101	102	99	99	99	101	98	97	98	99	100	100	103	100	101	100	100	97	60	61	64	63	64	94	94	99	99	61	101	60	63	
KNYR	HY03	0	0	0	0	0	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	100	101	101	101	101	101	98	54	0	0	0	97	102	102	102	101	101	0	0		
KNYR	HY04	-1	-1	-1	-1	-1	97	102	99	102	99	102	101	100	102	101	102	102	102	102	101	101	101	102	100	99	99	100	102	102	102	102	99	-1	-1	-1	-1	101	102	102	102	102	102	102	102	102	59			
LP1A	HY01	10	10	11	11	11	10	11	10	11	11	11	11	10	11	10	11	14	16	15	15	12	12	12	8	7	7	16	16	15	15	15	10	10	13	19	20	20	21	21	21	21	21	21	18	24	24	21		
LP1A	HY02	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10			
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	3	3	3	3	7	7	7	7	7	7	7	7	7	7	7	3	3	3	3	3					
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	21	21	21	-1	23	23	23	23	23																	

Daily MW Generation on Tuesday

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	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	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																									
UPIA	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																									
UPIA	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																									
Total Hydro		207	187	193	192	189	418	433	438	450	422	427	426	422	430	425	429	431	621	454	450	469	546	731	882	816	618	610	642	639	928	1059	1055	1053	1099	1026	564	290	234	230	801	1108	1017	1025	930	714	671	590	326	
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	24	24	24	25	26	25	25	25	26	27	28	27	27	26	28	27	28	27	29	25	25	25	24	23	23	23	25	24	24	23	24	24	24	23	25	25	24	25	24	23	24	24	24	25	25	25	24		
PCUF	CUFK	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
Total Co-Gen		39	39	39	40	41	40	40	40	41	42	43	42	42	41	43	42	43	42	44	40	40	40	39	38	38	38	38	40	39	39	38	39	39	39	38	40	40	39	40	39	38	39	39	39	40	40	40	39	
Total Gen		15550	15189	14823	14535	14221	14073	13901	13600	13494	13352	13336	13265	13379	13618	13363	13314	13674	14829	15620	16003	16548	16809	17095	17258	17118	16875	16803	17101	17404	17691	17786	17777	17836	17862	17533	16858	16239	15910	15920	16716	17192	17158	17201	17035	16727	16708	16419	16075	
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-2	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		-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-30	-30	-28	-28	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		-6	-21	-40	3	-63	-6	-55	0	-61	7	-13	24	60	-4	12	11	-16	-6	-29	-16	-5	-31	-51	-7	11	15	1	-15	-3	41	-25	52	38	51	9	53	30	17	34	12	26	-11	53	-1	-16	26	0	-13	
Interconnection		-34	-50	-70	-27	-92	-35	-84	-30	-90	-22	-42	-5	31	-34	-16	-18	-46	-35	-58	-45	-34	-62	-79	-36	-18	-14	-28	-44	-32	13	-54	23	9	23	-20	24	1	-11	5	-17	-4	-41	23	-30	-44	-4	-29	-42	
System Total		15584	15239	14893	14562	14313	14108	13985	13630	13584	13374	13378	13270	13348	13652	13379	13332	13720	14864	15678	16048	16582	16871	17174	17294	17136	16889	16831	17145	17436	17678	17840	17754	17827	17839	17553	16834	16238	15921	15915	16733	17196	17199	17178	17065	16771	16712	16448	16117	
SRev ST-Coal		149	149	146	158	163	325	380	399	394	392	384	391	391	387	383	381	393	385	158	168	154	160	159	153	169	160	173	173	165	172	152	157	153	167	159	169	159	160	160	161	159	153	163	161	159	163	161	167	
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
SRev CCGT-Gas		452	594	686	904	825	1122	1052	1248	1377	1496	1530	1583	1469	1296	1549	1607	1237	846	713	995	483	293	299	271	308	377	428	203	237	243	388	388	263	307	405	433	612	764	665	457	325	305	260	303	399	325	476	486	
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	6	5	4	5	5	5	4	3	2	3	3	4	2	3	2	3	1	5	5	5	6	7	7	7	7	5	6	6	6	7	6	6	6	7	5	5	6	5	6	7	6	6	6	5	5	5	6
Syncon		1012	1163	1163	1163	1163	1062	1062	911	911	1062	1062	1062	1062	1062	1062	1062	1062	724	1062	1062	911	528	252	252	439	590	741	590	590	439	439	439	439	439	439	775	926	1163	1163	590	252	252	252	252	439	523	523	760	
Hydro		246	115	109	110	112	84	69	215	204	81	76	77	81	73	78	74	72	244	73	77	209	510	682	600	479	526	383	502	505	617	486	490	492	446	519	395	334	153	157	359	540	631	623	618	500	465	546	407	
S.Reserve Total		1865	2027	2110	2340	2267	2598	2568	2778	2890	3034	3054	3116	3006	2822	3074	3127	2766	2202	2007	2307	1762	1496	1398	1293	1412	1670	1732	1538	1522	1594	1499	1508	1379	1393	1557	1807	2119	2339	2220	1624	1298	1362	1319	1355	1516	1541	1721	1826	