

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,430 MW
Distillate	0 MW
Total TNB	5,232 MW
Total IPP	14,738 MW
Total Co-Gen	45 MW
Total System	20,587 MW

Generation Mix

Type	MWh	Percentage
Gas	57,579	14.85 %
Hydro	16,573	4.27 %
Total TNB	74,152	19.12 %
ST-Coal	182,867	47.16 %
Gas	129,074	33.29 %
Total IPP	311,941	80.44 %
Co-Gen	600	0.15 %
Total Co-Gen	600	0.15 %
Total Generation	386,693	99.72 %
PLTG	232	0.06 %
HVDC	-1,322	-0.34 %
Interconnection	-1,090	-0.28 %
Net Energy	387,783	100.00 %

Maximum Demand Record

Date: 8/15/2018	18,338 MW
Date: 8/15/2018	388,524 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	14:30:00 Hour
Total Set On Bus	19,460 MW
TNB Generation	4,144 MW
IPP Generation	13,981 MW
Spinning Reserve	1,310 MW
Maximum Demand	18,257 MW
Net Energy	387,783 MWH
Load Factor	88.50 %

Fuel Cost

Total Cost:	72,403,438.19 RM
Cost per Unit	19.56 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	326
Hydro	657
Syncon	491
Thermal	121
Total	1,595

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Rainy	25

Gas Usage

Station	(mmscfd)
CBPS	47
GLGR	58
PAKA	42
PGPS	41
SRDG	31
TJGS	220
Total TNB	440
CBPS	55
KLPP	117
NPRI	156
PDPS	10
PGLA	116
PLPS	94
PTEK	31
SGB3	60
SGRI	169
SKSP	54
YPKA	99
Total IPP	963
Total Gas	1,403
Total Gas Required	1,403

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	16070	15211	14798	14249	13967	13634	13699	13644	13979	15836	16794	17594	17561	17249	17900	18199	18087	17603	16465	16291	17440	17487	16994	16568

Prepared By: -Select Name-

Checked By: -Select Name-

(Ir. Shanmugam Thoppalan)
 Printed on: Thursday, September 06, 2018 5:08:05 PM
 Pengurus Besar Kanan
 Jabatan Sistem Operasi

Daily MW Generation on Thursday

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	GT13	111	105	112	112	109	109	109	109	106	109	110	112	109	108	110	109	116	134	135	135	133	133	132	132	132	130	132	131	132	144	133	133	132	111	128	110	110	110	134	138	136	135	116	135	109	110					
SGRI	ST14	109	67	67	64	67	63	67	66	66	65	66	66	64	70	68	67	67	117	153	215	214	217	218	217	218	215	218	216	223	217	219	218	220	220	208	209	194	194	196	222	218	218	215	222	202	224	203	195			
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	135	135	135	133	133	133	133	134	134	134	134	134	134	134	134	135	137	134	113	126	109	108	108	135	135	136	138	112	137	109	109			
SGRI	GT22	111	139	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	108	137	137	137	138	138	137	137	134	139	138	139	135	139	140	114	129	111	111	111	142	141	142	141	114	140	112	112				
SGRI	GT23	106	142	142	141	141	142	107	107	107	103	107	107	107	111	107	107	104	112	110	109	113	142	142	140	139	140	140	130	142	141	142	134	140	141	112	124	110	110	110	144	141	144	143	141	112	142	108	109			
SGRI	ST24	131	149	116	72	73	68	62	58	61	61	61	61	61	60	60	60	60	88	134	184	206	213	213	217	220	217	215	213	216	215	217	209	215	217	205	205	194	194	195	217	212	217	216	213	198	216	196	193			
SKSP	BLK1	264	218	289	279	280	237	221	218	219	215	218	216	238	343	241	217	294	281	276	228	300	345	345	347	346	344	343	290	344	343	312	342	304	336	262	340	317	330	323	341	341	345	344	344	345	344	335	331			
TJGS	GT1A	228	191	224	222	214	210	202	191	202	176	188	208	228	226	209	208	227	209	228	172	229	231	226	227	223	226	224	222	225	228	222	216	225	225	212	222	211	214	223	228	222	221	223	225	221	225	219	216			
TJGS	GT1B	215	187	218	212	205	209	198	187	198	169	184	199	217	219	203	203	218	201	217	167	217	222	217	223	218	219	222	216	218	222	215	215	217	220	208	216	205	213	214	224	215	220	214	217	215	219	214	211			
TJGS	ST1C	242	210	244	244	244	243	238	227	217	210	209	238	241	244	241	230	241	224	245	222	244	255	251	254	255	251	250	251	254	249	253	250	253	252	248	242	245	233	251	248	248	248	252	248	248	248	248				
TJGS	GT2A	213	213	213	213	215	213	213	213	215	215	215	215	215	215	214	214	214	214	214	214	214	214	214	214	214	214	214	214	214	212	212	214	213	213	213	213	213	214	214	214	214	211	213	213	213	214	212	214	214		
TJGS	GT2B	210	210	210	210	210	210	211	211	211	211	211	212	212	210	212	212	209	209	211	209	212	211	211	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	211	209	210	210	209	211		
TJGS	ST2C	259	259	259	259	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257	257			
YPKA	GT11	132	131	134	133	133	130	132	132	132	129	132	61	62	63	62	62	120	133	132	132	132	131	131	131	130	131	131	130	129	130	130	130	131	131	132	132	100	100	131	129	129	129	129	129	129	129	129	129			
YPKA	GT12	134	134	134	134	134	133	134	134	134	132	134	62	62	62	62	118	135	133	134	134	133	134	134	132	133	132	132	134	132	134	132	135	135	134	133	102	99	133	130	131	131	131	131	131	131	131	131	131	131		
YPKA	ST10	129	127	129	129	129	128	128	127	127	126	127	79	77	77	77	100	127	127	129	129	130	130	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129		
YPKA	GT21	129	128	129	129	129	131	130	132	129	133	134	65	65	65	65	65	126	131	130	130	129	128	127	128	128	129	127	128	127	126	127	127	130	129	129	131	64	64	128	125	125	125	125	125	125	125	125	125	126	125	
YPKA	ST20	63	63	62	63	63	63	63	63	64	64	41	39	39	39	40	57	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63		
Total CCGT-Gas		7488	6977	6743	6619	6567	6427	6228	6130	6147	5973	5919	5817	5949	6148	5884	5778	6245	6964	7492	7819	8105	8244	8250	8519	8460	8452	8444	8313	8479	8518	8407	8431	8387	8486	8149	8296	7983	7674	7669	8543	8410	8440	8439	8453	8215	8462	8183	7845			
PDPS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PDPS	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PDPS	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRDG	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 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	0	
BSIA	HY02	24	24	24	24	24	24	24	24	24	14	14	14	14	14	14	23	23	23	23	23	23	23	23	24	24	23	24	24	24	24	24	24	23	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	12	13	13	12	12	13	25	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	10	10	9	10	10	10																																												

Daily MW Generation on Thursday

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	HY01	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	21	29	21	24	21	21	21	21	21	21	21	21	0	0	0	0	20	20	21	20	19	19	0									
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-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	0	0	0									
PGAU	HY03	18	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	21	21	21	29	21	23	21	21	21	21	21	21	21	21	21	-1	-1	-1	-1	19	20	20	20	0	0	0									
PGAU	HY04	21	21	0	0	0	0	0	0	0	0	0	0	0	0	0	29	29	29	30	29	29	29	29	29	29	29	29	29	28	0	0	0	0	19	20	20	20	0	0	0								
SIHY	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	0	0	0	0	0	0	0	0	30	30	30	30	30	30	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	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	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	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
TMGR	HY01	80	81	81	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	62	62	61	64	80	80	62	62	31	62	62	62	62	61	33	33	33	33	-1	-1	-1	52	62	62	33	33	33	33					
TMGR	HY02	85	85	85	65	35	33	-1	-1	-1	-1	-1	-1	-1	-1	64	64	64	68	84	84	64	64	33	64	64	65	64	64	35	-1	-1	-1	-1	-1	-1	54	65	65	36	36	35	35	35					
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33	37	33	35	33	33	33	63	63	64	63	63	32	0	0	0	0	0	0	50	60	60	32	11	0	0						
TMGR	HY04	81	81	81	61	33	31	33	33	33	33	33	33	33	33	63	63	63	63	67	80	80	63	63	32	32	33	34	33	33	33	33	32	33	33	33	34	51	61	61	33	33	33	33					
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	100	-1	-1	-1	92	93	100	-1	93	93	93	92	-1	-1	-1	-1	-1	-1	93	93	93	-1	-1	-1					
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	100	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1						
UPIA	HY01	0	0	0	0	0	0	0	0	0	5	6	6	6	6	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						
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Total Hydro		757	636	642	563	466	293	260	362	238	238	180	191	214	197	197	197	200	518	754	841	845	917	1138	1098	877	724	624	1072	1138	1373	1189	1172	1153	1000	881	642	611	575	650	619	934	1015	1014	901	787	719	674	619
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		
PCUF	CUFG	9	10	10	10	12	8	11	10	10	10	10	9	11	9	10	10	10	10	10	11	11	9	10	9	10	10	10	11	8	10	10	10	10	10	10	10	10	11	9	10	11	10	10	11	9	10	11	
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	15	
Total Co-Gen		24	25	25	25	27	23	26	25	25	25	25	24	26	24	24	25	25	25	25	26	26	24	25	24	25	25	25	26	23	25	25	25	25	25	25	25	26	24	25	26	25	25	26	24	25	26		
Total Gen		16048	15421	15179	14984	14757	14463	14204	14045	13934	13751	13646	13559	13702	13905	13634	13525	13985	15030	15806	16354	16756	16991	17482	17649	17419	17257	17135	17426	17808	18150	18107	18119	18048	17996	17547	17139	16445	16101	16182	17050	17423	17543	17474	17318	16962	16857	16580	16283
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	
TIE-HVDC		-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-30	-99	-98	-98	-98	-98	-98	-99	-99	-98	-98	-98	-98	-99	-99	-98	-98	-98	-98	-98	-30	-31	-30	-30	-29	-29	-29	-29	-29		
TIE-PLTG		6	6	-2	1	-12	24	-17	17	-4	53	40	9	31	-19	19	45	35	7	-1	-8	-49	-13	-48	-44	38	-16	11	7	-8	6	30	59	22	42	66	79	-6	-11	-90	14	13	17	41	-3	49	41	-13	
Interconnection		-22	-22	-32	-28	-41	-6	-45	-11	-33	24	12	-20	3	-48	-10	15	6	-23	-30	-28	-38	-148	-112	-146	-142	-60	-114	-88	-92	-107	-92	-68	-39	-76	-56	-33	-20	-104	-109	-120	-17	-16	-13	12	-32	20	12	-42
System Total		16070	15443	15211	15012	14798	14469	14249	14056	13967	13727	13634	13579	13699	13953	13644	13510	13979	15053	15836	16382	16794	17139	17594	17795	17561	17317	17249	17514	17900	18257	18199	18187	18087	18072	17603	17172	16465	16205	16291	17170	17440	17559	17487	17306	16994	16837	16568	16325
SRev ST-Coal		142	138	152	144	191	118	231	288	289	297	290	85	96	77	82	85	96	88	77	92	140	116	42	133	131	128	129	124	129	121	131	127	132	133	126	117	139	141	131	122	143	133	131	134	131	147	118	128
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	10	11	13	27	166	12	61	17	17	17	16	16	123	233	230	230	212	1	3	71	2	10	46	0	0	0
SRev CCGT-Gas		562	711	464	445	497	637	760	858	841	1015	1069	1171	1039	840	1104	1210	743	584	342	623	337	198	292	190	249	257	265	396	230	191	302	278	322	223	560	413	726	1035	1040	166	299	269	270	256	494	247	526	771
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
SRev Co-Gen		21	20	20	20	18	22	19	20	20	20	20	21	19	21	21	20	20	19	20	20	20	19	21	20	21	20	20	20	20	19	22	20	20	20	20	20	20	19	21	20	19	20	19	21	20	19		
Syncon		802	953	802	953	1038	1038	1124	973	1124	1225	1225	1225	1074	1225	1225	1225	888	651	525	525	525	151	338	525	752	752	338	338	151	338	464	464	464	550	737	737	1039	973	833	615	615	636	636	823	651	651	651	
Hydro		314	184	179	107	219	292	239	288	161	160	118	137	265	131	134	134	155	250	601	724	720	648	801	654	688	614	714	855	814	766	763	654	673	783	682	334	365	164	170	271	299	518	518	631	558	394	363	218
S.Reserve Total		1841	2006	1617	1669	1963	2107	2373	2427	2435	2717	2722	2638	2495	2292	2566	2675	2239	1830	1690	1984	1742	1507	1324	1344	1623	1785	1907	1900	1543	1310	1571	1559	1630	1639														