

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,180 MW
Distillate	0 MW
Total TNB	4,982 MW
Total IPP	14,589 MW
Total Co-Gen	54 MW
Total System	19,911 MW

Generation Mix

Type	MWh	Percentage
Gas	50,648	14.15 %
Hydro	27,873	7.79 %
Total TNB	78,521	21.94 %
ST-Coal	182,150	50.90 %
Gas	93,910	26.24 %
Total IPP	276,060	77.15 %
Co-Gen	1,118	0.31 %
Total Co-Gen	1,118	0.31 %
Total Generation	355,699	99.40 %
PLTG	-292	-0.08 %
HVDC	-1,845	-0.52 %
Interconnection	-2,137	-0.60 %
Net Energy	357,836	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:	15:00:00 Hour
Total Set On Bus	18,091 MW
TNB Generation	4,177 MW
IPP Generation	12,580 MW
Spinning Reserve	1,289 MW
Maximum Demand	16,864 MW
Net Energy	357,836 MWH
Load Factor	88.41 %

Fuel Cost

Total Cost:	67,017,124.87 RM
Cost per Unit	20.44 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	681
Hydro	451
Syncon	355
Thermal	116
Total	1,603

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
CBPS	44
GLGR	50
PAKA	46
PGPS	40
SRDG	8
TJGS	200
Total TNB	387
CBPS	50
KLPP	90
MPSS	45
NPRI	144
PLPS	63
PTEK	17
SGB3	75
SGRI	32
SKSP	29
YPKA	77
Total IPP	622
Total Gas	1,008

Total Gas Required 1,008

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	14072	13447	13058	12870	12501	12468	12821	12747	13263	14944	15832	16406	16349	15968	16673	16864	16793	16384	15446	15757	16371	16109	15549	15020

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, October 29, 2018 10:28:30 AM

 (Ir. Shanmugam Thoppalan)
 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																										
SGRI	ST14	56	56	55	57	56	57	57	58	58	57	56	57	57	59	58	56	57	57	57	57	57	57	57	55	55	55																								
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	46	333	233	219	220	240	218	264	253	220	330	252	300	321	324	306	298	218	218	223	345	324	279	297	220	219	218	219	219	218								
TJGS	GT1A	196	156	131	131	131	131	131	131	122	125	128	134	131	132	129	131	208	173	137	173	224	185	225	220	214	221	222	209	220	216	219	219	215	216	211	211	206	221	221	228	227	225	227	223	221	216	225	179		
TJGS	GT1B	195	151	131	132	131	131	133	131	122	127	128	128	128	129	130	209	174	135	166	216	185	216	218	213	217	216	210	219	214	217	220	214	216	214	211	207	217	217	226	226	223	225	225	216	214	216	178			
TJGS	ST1C	219	203	174	174	174	174	174	174	169	169	173	173	173	173	206	201	175	207	220	230	237	248	248	248	248	248	243	246	246	246	246	244	237	238	245	256	256	256	256	249	244	234	234	220	220					
TJGS	GT2A	184	159	148	148	148	148	148	148	148	148	148	149	147	149	148	149	185	213	213	213	180	197	213	213	213	213	213	213	213	213	213	213	213	213	213	224	221	221	222	222	222	220	230	220						
TJGS	GT2B	179	152	143	141	142	142	142	142	142	144	144	144	143	143	143	143	143	179	210	210	208	168	215	208	208	208	209	207	209	209	209	209	209	209	209	209	209	209	209	220	217	217	216	216	216	216	219			
TJGS	ST2C	236	225	211	211	211	211	211	211	211	211	211	211	211	211	211	211	211	237	260	260	260	253	253	259	259	259	259	259	259	259	259	259	259	259	259	259	259	262	264	264	264	264	264	264	264					
YPKA	GT11	66	66	66	66	66	67	67	67	67	67	67	67	67	67	67	66	67	67	67	66	133	133	130	129	129	130	128	129	130	130	131	132	131	131	132	130	131	130	129	131	131	131	130	130	127	128	104	66		
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	135	137	134	134	133	133	133	136	134	135	134	133	133	133	135	135	134	134	134	134	134	134	134	134	134	134	134	107	65			
YPKA	ST10	33	33	33	33	33	33	33	33	33	33	33	33	33	34	33	124	127	126	126	126	126	127	127	126	125	128	129	128	128	128	128	128	128	128	128	128	126	126	126	126	126	126	125	125	123	125	119	80		
YPKA	GT21	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	125	126	126	127	127	126	125	130	131	130	128	130	131	132	133	131	66	65	100	125	125	125	125	125	124	123	125	93	65	
YPKA	ST20	38	37	37	37	37	37	37	37	38	37	37	37	37	37	37	37	38	37	38	59	62	63	63	62	40	62	64	63	63	63	63	63	64	63	64	62	44	39	48	62	62	62	62	62	61	62	53	39		
Total CCGT-Gas		4689	4473	4310	4103	4028	3895	3954	3826	3718	3765	3786	3839	3877	3918	3827	3859	4239	5108	5675	6245	6653	6731	7059	7188	7042	6847	7077	7248	7549	7460	7567	7600	7571	7543	7374	7220	6945	6853	7246	7523	7452	7440	7262	7231	7141	6911	6486	6118		
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	50	101	98	68	68	69	68	69	30	30	29	69	69	29	30	30	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	92	110	105	101	69	68	68	68	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	14	105	102	99	70	68	68	69	56	29	30	29	70	69	29	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	108	88	89	86	87	66	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	93	124	88	89	88	86	87	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	199	389	504	475	384	376	380	271	125	59	60	58	139	138	58	30	30	0	0	0	0
BSIA	HY01	23	23	23	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	12	12	12	12	12	23	23	23	23	23	23	23	23	23	23	23	23	22	23	23	22	22	22	22	11			
BSIA	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	12	12	12	12	12	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	11		
BSIA	HY03	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	12	12	12	12	12	24	24	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	21	11			
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	10	10	10	9	9	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY03	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	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY04	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	7	7			
HTRG	HY01	124	124	125	124	124	124	125	125	125	63	62	125	124	124	124	124	124	124	124	124	124	125	125	63	120	124	124	124	124	124	124	124	123	124	124	124	125	124	124	123	124	123	124	-1	-1	125	125			
HTRG	HY02	124	124	124	124	124	124	124	62	62	-1	-1	-1	64	124	124	62	124	124	124	124	125	63	124	62	62	62	120	124	124	124	125	125	125	124	-1	-1	123	124	124	124	124	124	0	0	0	0	0			
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	24	24	24	24	24	36	36	36	36	26	26	26	26	26	26	26	26	26	35	35	35	35	35	35	35	37	37		
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	26	26	26	26	27	37	37	37	37	25	25	25	25	25	25	25	25	25	25	37	37	37	37	37	37	37	37		
KNRG	HY03	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	22	22	21	22	21	37	37	37	37	25	25	25	25	24	25	25	25	25	25	37	37	37	37	37	37	37	37			
KNYR	HY01	99	99	99	99	99	99	99	100	100	60	60	60	61	99	100	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
KNYR	HY02	97	97	97	97	97	97	97	66	54	55	55	96	90	92	60	82	97	97	96	97	97	97	97	97	97	97	97	97	97	97	95	97	97	95	93	96	97	97	97	97	97	97	97	97	97	97	97	97		
KNYR	HY03	99	99	99	99	99	99	99	99	69	61	62	69	90	64	73	99	99	97	96	98	98	98																												

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																								
TMGR	HY01	61	76	76	76	61	61	62	61	59	60	61	62	62	61	62	60	61	61	60	62	61	33	33	32	33	61	32	33	32	33	33	32	32	31	33	33	33	33	33	33	33	32	33	33	62			
TMGR	HY02	84	84	84	84	64	36	36	36	31	34	34	37	64	64	64	64	61	64	64	61	64	64	35	35	33	35	64	32	35	32	35	35	33	34	32	31	35	35	35	35	36	35	35	35	32	35	35	63
TMGR	HY03	80	60	60	60	60	33	33	33	28	31	31	33	60	60	60	60	57	60	60	57	60	59	32	32	29	32	60	29	32	29	32	32	30	31	29	28	32	32	32	32	32	32	32	29	32	32	59	
TMGR	HY04	61	61	61	61	61	61	61	61	56	58	59	61	61	61	61	58	61	61	58	61	58	61	33	33	30	33	61	30	33	30	33	33	31	31	30	28	33	33	33	33	33	33	30	32	33	60		
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	-1	88	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	91	90	90	91	88	-1	-1	-1	-1		
UJLI	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	90	84	-1	84	89	91	87	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
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				
Total Hydro		1195	1088	1089	1088	1051	997	936	871	846	692	684	733	938	1057	1000	948	1099	1110	1109	1098	1032	1177	1175	1178	1163	1075	1469	1531	1308	1466	1494	1458	1466	1468	1363	1206	1043	1037	1196	1501	1500	1500	1501	1374	1139	948	1082	1155
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	25	26	24	24	23	24	23	26	24	25	25	24	24	24	25	23	24	24	25	23	24	23	23	24	24	24	22	23	22	21	22	24	24	23	25	25	23	24	24	24	25	24	26	25	25	24		
PCUF	CUFK	23	21	21	23	22	22	21	24	23	23	23	24	24	23	24	21	23	22	24	22	22	22	22	22	22	23	22	23	22	23	22	23	22	23	22	23	23	23	22	22	22	24	24	22	23	23	23	
Total Co-Gen		48	47	45	47	45	46	44	50	47	48	48	47	48	48	47	49	44	47	46	49	45	46	45	45	46	47	46	47	45	45	45	43	44	47	46	46	48	48	46	47	46	46	47	48	50	47	48	47
Total Gen		13902	13604	13351	13033	12918	12735	12728	12543	12412	12309	12337	12424	12667	12816	12664	12664	13181	14156	14828	15418	15736	15967	16269	16422	16264	15969	15844	16264	16538	16721	16802	16722	16679	16667	16292	15821	15339	15245	15786	16443	16386	16277	16099	15928	15569	15146	14860	14576
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			
TIE-HVDC		-99	-99	-97	-99	-97	-99	-99	-97	-99	-98	-98	-98	-99	-97	-97	-98	-98	-98	-98	-98	-99	-99	-99	-98	-98	-99	-99	-97	-99	-97	-98	-97	-98	-98	-99	-99	30	30	30	30	29	29	30	30	-100	-97	-98	
TIE-PLTG		-63	-45	9	-13	-36	-13	-35	-21	18	-47	-25	6	-47	-13	22	-22	25	11	-10	-12	10	-7	-30	-2	20	1	-17	59	-30	3	43	-25	-9	-15	14	-25	0	-22	7	-47	-7	-15	-32	-33	-2	-47	-55	-11
Interconnection		-162	-144	-88	-112	-132	-113	-134	-118	-81	-146	-123	-92	-146	-112	-75	-119	-74	-87	-108	-110	-88	-105	-129	-101	-77	-97	-116	-40	-127	-96	-54	-123	-106	-113	-84	-125	-99	8	37	-16	23	14	-2	-3	28	-147	-152	-109
System Total		14072	13756	13447	13153	13058	12856	12870	12669	12501	12463	12468	12524	12821	12936	12747	12791	13263	14251	14944	15536	15832	16080	16406	16531	16349	16074	15968	16312	16673	16825	16864	16853	16793	16788	16384	15954	15446	15245	15757	16467	16371	16271	16109	15939	15549	15301	15020	14693
SRev ST-Coal		99	101	154	266	267	264	267	265	260	257	242	256	257	268	271	89	98	180	119	91	111	104	127	106	104	117	115	128	120	121	146	110	125	118	109	123	103	100	127	134	117	134	108	122	128	127	123	111
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	145	64	72	101	192	200	196	179	93	159	158	160	79	80	160	79	79	0	0	0	0	
SRev CCGT-Gas		1667	1883	2046	2253	2328	2461	2402	2530	2638	2591	2570	2517	2479	2438	2529	2297	1908	1195	1413	1085	737	883	761	632	778	973	743	572	271	460	353	320	349	377	546	700	975	1067	574	297	368	380	558	589	679	748	886	1254
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		
SRev Co-Gen		6	7	9	7	9	8	10	4	7	6	7	6	6	7	5	10	7	8	5	9	8	9	9	8	7	8	7	9	9	9	11	10	7	8	8	6	6	8	7	8	8	7	6	4	7	6	7	
Syncon		676	676	676	676	676	676	676	676	676	802	802	802	525	525	525	676	676	676	676	676	676	374	374	374	374	0	0	374	187	187	187	187	187	374	374	500	500	374	187	187	187	187	187	500	500	374	374	
Hydro		76	83	82	83	120	174	235	300	325	353	361	312	384	265	322	323	176	165	166	177	243	123	602	599	614	702	505	618	467	521	493	529	548	546	464	621	658	664	631	513	514	514	513	515	437	628	620	547
S.Reserve Total		2524	2750	2967	3285	3400	3583	3590	3775	3906	4009	3981	3894	3651	3502	3654	3390	2868	2223	2382	2034	1776	1794	1873	1720	1878	2173	1371	1470	1305	1370	1289	1349	1419	1431	1680	1919	2401	2495	1874	1217	1274	1383	1452	1498	1748	2010	2009	2293