

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,305 MW
Distillate	0 MW
Total TNB	5,107 MW
Total IPP	14,965 MW
Total Co-Gen	45 MW
Total System	20,689 MW

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:	20:30:00 Hour
Total Set On Bus	17,687 MW
TNB Generation	2,899 MW
IPP Generation	13,342 MW
Spinning Reserve	1,411 MW
Maximum Demand	16,310 MW
Net Energy	356,199 MWH
Load Factor	91.00 %

Gas Usage

Station	(mmscfd)
CBPS	2
GLGR	52
PGPS	39
TJGS	224
Total TNB	318
CBPS	55
KLPP	107
NPRI	150
PGLA	58
PLPS	92
PTEK	8
SGB3	53
SGRI	101
SKSP	53
YPKA	94
Total IPP	772
Total Gas	1,090

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
Gas	44,510	12.50 %
Hydro	9,468	2.66 %
Total TNB	53,978	15.15 %
ST-Coal	184,559	51.81 %
Gas	116,253	32.64 %
Total IPP	300,812	84.45 %
Co-Gen	897	0.25 %
Total Co-Gen	897	0.25 %
Total Generation	355,687	99.86 %
PLTG	187	0.05 %
HVDC	-699	-0.20 %
Interconnection	-512	-0.14 %
Net Energy	356,199	100.00 %

Fuel Cost

Total Cost:	64,783,171.46 RM
Cost per Unit	18.71 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	438
Hydro	318
Syncon	829
Thermal	157
Total	1,742

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

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	15562	14953	14517	13998	13722	13358	13367	13087	12959	14038	14895	15390	15254	14936	15362	15522	15635	15382	14896	15103	16272	16182	15911	15640

Prepared By: -Select Name-

Checked By: -Select Name-

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

Printed on: Thursday, September 06, 2018 5:09:38 PM

Daily MW Generation on Saturday

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	GT23	111	120	106	108	123	141	141	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST24	194	197	175	130	104	63	70	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKSP	BLK1	325	347	338	344	324	330	316	293	310	349	242	318	345	316	218	216	235	218	219	218	223	330	338	343
TJGS	GT1A	217	222	222	229	220	231	228	223	222	229	230	220	232	215	190	191	205	208	169	206	227	223	227	223
TJGS	GT1B	214	219	216	220	215	218	221	217	216	218	219	219	218	210	183	186	202	205	164	199	206	221	222	218
TJGS	ST1C	247	250	246	246	248	243	248	248	224	245	248	246	247	231	225	202	199	234	211	234	238	251	254	250
TJGS	GT2A	221	224	221	221	221	221	221	221	221	221	221	221	222	222	222	222	222	222	222	222	222	222	222	222
TJGS	GT2B	218	219	219	219	219	219	219	219	218	218	217	220	220	218	218	218	218	218	218	218	218	218	218	218
TJGS	ST2C	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263	263
YPKA	GT11	128	128	128	127	127	129	0	0	0	0	0	0	0	0	123	131	132	131	132	131	115	129	128	130
YPKA	GT12	130	130	130	131	132	132	132	132	132	132	132	132	132	108	66	65	136	137	136	135	134	134	133	134
YPKA	ST10	124	122	121	122	122	110	58	58	59	59	59	60	60	59	54	34	34	60	110	129	129	130	130	130
YPKA	GT21	125	125	125	125	125	112	133	133	132	133	131	131	130	133	65	65	131	132	131	130	127	129	130	
YPKA	ST20	60	60	61	61	60	53	63	64	64	63	64	64	63	64	63	42	40	62	62	63	62	62	62	62
Total CCGT-Gas		7529	7178	6930	6726	6467	6237	6130	6090	5923	5804	5645	5610	5586	5470	5273	5031	5076	5730	6276	6608	6719	6971	7167	7128
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
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
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
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
BSIA	HY02	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
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	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
HTRG	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
KNRG	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
KNRG	HY02	21	22	21	21	21	22	21	21	21	21	21	21	21	21	19	20	21	20	38	28	27	28	28	28
KNRG	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
KNYR	HY01	60	60	60	60	60	98	97	97	60	60	98	98	98	97	60	0	0	0	0	0	0	0	0	0
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	57	52	56	56	58	58	-1	-1	
KNYR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
LPIA	HY01	13	13	13	13	13	14	14	14	13	13	13	13	13	14	13	14	14	14	12	10	8	8	11	
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5	5	5	5	4	
PGAU	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
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	22	22	-1	15	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	21	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	22	-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	
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
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

Daily MW Generation on Saturday

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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
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	
TMGR	HY04	33	33	33	33	33	33	33	33	33	33	33	33	34	34	34	34	34	34	34	33	33	33	33	
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	
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	
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Total Hydro		202	181	180	180	180	183	243	218	217	205	203	248	258	320	319	282	284	277	265	276	337	368	399	
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	
PCUF	CUFG	25	25	24	24	25	24	24	24	25	25	25	24	23	23	25	25	24	23	22	23	22	22	22	
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	
Total Co-Gen		40	40	39	39	40	39	39	39	40	40	40	39	38	37	38	37	37	37	37	35	35	38	36	
Total Gen		15558	15174	14885	14728	14461	14176	13963	13832	13656	13510	13359	13376	13349	13287	13109	12839	12880	13513	14034	14508	14855	15146		
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	
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	
TIE-PLTG		25	-17	-39	35	-27	-30	-6	6	-37	-15	30	31	10	16	52	7	-49	6	26	-12	-11	0		
Interconnection		-4	-46	-68	6	-56	-59	-35	-23	-66	-44	1	3	-18	-13	22	-22	-79	-24	-4	-40	-40	-29		
System Total		15562	15220	14953	14722	14517	14235	13998	13855	13722	13554	13358	13373	13367	13300	13087	12861	12959	13537	14038	14548	14895	15175		
SRev ST-Coal		134	146	182	138	147	204	287	278	283	298	289	280	292	302	282	274	279	297	308	283	159	152		
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	
SRev CCGT-Gas		887	569	771	835	944	733	485	460	446	530	689	724	748	864	1061	1303	1258	900	835	579	468	331		
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		5	5	6	6	5	6	6	6	5	5	5	6	7	5	5	6	7	8	7	8	8	8	8	
Syncon		923	1074	1074	1074	1074	1074	923	1074	1074	923	1074	772	1074	1074	1074	1074	973	888	888	989	989	1085	1085	
Hydro		288	158	159	159	159	156	247	121	122	285	287	91	383	119	120	157	162	174	163	203	250	219		
S.Reserve Total		2237	1952	2192	2212	2329	2173	1948	1939	1931	2041	2193	2174	2201	2366	2544	2813	2771	2438	2397	2106	1811	1628		