

Daily System Generation Summary on Saturday

Saturday, July 21, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	1,818 MW
Hydro	1,985 MW
Distillate	0 MW
Total TNB	3,803 MW
Total IPP	15,868 MW
Total Co-Gen	45 MW
Total System	20,288 MW

Generation Mix

Type	MWh	Percentage
Gas	24,152	7.03 %
Hydro	12,330	3.59 %
Total TNB	36,482	10.61 %
ST-Coal	197,038	57.32 %
Gas	108,632	31.60 %
Total IPP	305,670	88.92 %
Co-Gen	894	0.26 %
Total Co-Gen	894	0.26 %
Total Generation	343,046	99.79 %
PLTG	-27	-0.01 %
HVDC	-683	-0.20 %
Interconnection	-710	-0.21 %
Net Energy	343,756	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:	20:30:00 Hour
Total Set On Bus	17,352 MW
TNB Generation	2,103 MW
IPP Generation	13,981 MW
Spinning Reserve	1,225 MW
Maximum Demand	16,121 MW
Net Energy	343,756 MWH
Load Factor	88.85 %

Fuel Cost

Total Cost:	60,959,130.87 RM
Cost per Unit	18.06 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	311
Hydro	438
Syncon	453
Thermal	294
Total	1,496

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	2
GLGR	31
PGPS	38
TJGS	106
PGPS	0
Total TNB	177
CBPS	54
KLPP	72
MPSS	43
NPRI	156
PGLA	111
PLPS	94
PTEK	1
SGB3	3
SGRI	66
SKSP	54
YPKA	79
Total IPP	732
Total Gas	909
Total Gas Required	909

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	15332	14591	14152	13704	13296	13111	13029	12862	12671	13804	14630	15201	15119	14822	15170	15358	15473	15284	14686	14772	16058	16020	15828	15743

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, August 03, 2018 12:11:06 PM

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

1 of 3

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	GT12	110	113	111	122	113	141	111	71	70	70	70	70	75	71	70	71	70	71	109	109	138	137	139	123	110	105	114	113	118	130	132	134	136	129	130	109	113	109	118	115	124	115	110	110	106	131	134	70		
SGRI	ST14	133	134	133	147	133	151	134	102	101	107	100	99	103	100	101	99	104	101	121	136	149	149	150	145	134	132	133	138	143	148	149	152	150	149	144	139	137	137	135	141	142	139	134	133	134	148	152	119		
SKSP	BLK1	344	346	326	342	344	346	327	346	217	227	300	220	293	239	241	220	233	328	245	236	346	345	346	310	244	223	263	326	342	341	321	339	339	342	219	232	225	219	233	321	325	307	302	301	300	344	343	345		
TJGS	GT2A	201	202	213	214	213	213	213	213	213	214	214	214	213	213	214	147	147	213	213	214	213	213	213	213	213	214	213	212	213	214	214	213	213	213	213	213	213	213	213	213	213	213	213	214	214	214				
TJGS	GT2B	199	199	210	211	210	211	210	211	210	211	211	211	211	211	211	144	144	211	211	210	210	210	210	211	210	209	209	211	211	209	210	210	209	209	211	210	210	210	210	210	210	211	211	210	211	211	211			
TJGS	ST2C	250	250	258	258	258	258	258	258	258	258	258	258	258	258	258	210	210	258	258	258	259	258	258	258	258	258	258	258	258	258	258	258	258	258	258	259	259	259	259	259	259	259	259	259	259	259	259			
YPGS	ST10	0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
YPKA	GT11	130	130	128	130	129	66	65	65	65	65	65	64	66	65	64	65	65	65	129	131	132	129	129	128	126	123	129	129	128	128	129	129	130	128	127	127	65	64	64	134	135	134	135	134	134	135	135	129		
YPKA	GT12	131	131	131	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	131	134	132	132	132	131	128	132	132	132	132	132	133	132	131	133	132	66	63	64	137	135	137	137	137	138	135	136	129		
YPKA	ST10	124	124	124	56	57	35	34	34	34	35	34	34	35	34	35	35	35	56	122	126	126	127	127	126	124	127	129	129	130	128	129	128	128	126	126	89	81	81	130	130	131	131	131	132	131	132	126			
YPKA	GT21	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	126	126	126	126	126	125	126	122	126	128	128	128	129	127	130	65	65	65	65	65	130	131	132	131	132	132	132	123				
YPKA	ST20	40	40	40	40	40	40	40	40	40	40	40	40	40	39	39	40	40	40	64	65	65	65	65	65	65	64	66	62	66	66	66	66	66	67	67	66	67	43	42	42	66	67	67	67	67	67	67	68	64	
Total CCGT-Gas		6361	5995	5665	5424	5264	5266	5129	5065	4885	4694	4668	4542	4562	4480	4434	4161	4224	4776	5286	5583	5970	6107	6140	6096	6081	5968	6171	6204	6262	6307	6299	6359	6339	6309	6157	5861	5448	5333	5479	6165	6268	6239	6215	6210	6174	6153	6121	5717		
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	107	66	66	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	107	66	66	0	0	0	0
BSIA	HY02	12	13	13	12	12	13	12	12	12	13	13	13	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	23	23	23	23	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	9	10	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	9	10	10	10	10	9	10	10	10	10	10	10	9	10	9	10	10	10	10	10			
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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
HTRG	HY02	-1	-1	-1	-1	-1	-4	-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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	27	28	27	28	27	28	27	28	27	28	27	28	27	28	27	27	28	28	27	28	28	28	28	28	28	28	26	26	26	26	26	27	26	36	36	36	37	37	37	37	37	36	36	36	36	38	38	38		
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	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	HY02	59	59	57	58	58	59	58	58	58	58	59	59	61	59	58	58	57	60	58	101	102	101	103	101	98	94	59	62	99	101	101	102	103	100	98	59	57	58	58	98	99	98	98	98	96	101	99	100		
KNYR	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	0	0	0	0	0	0	0			
KNYR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	102	103	102	102	101	98	95	58	-1	100	102	102	102	101	99	59	57	58	59	99	100	99	99	99	98	102	100	101			
LPIA	HY01	14	14	13	13	13	14	13	14	13	13	13	13	13	13	13	13	13	13	13	14	14	14	13	13	13	13	13	13	13	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
MNOR	HY01	2	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	6	6	4	4	4	4	4	4	4	3	3	4	4	3	3	3	3	7	7	7	7	7	7	2	2	2	
PGAU	HY01	-1	-1	-1	-1	-1	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	23	21	71	20	21	21	22	22	21	21	21	21	20	-1	-1	-1	-1	19	21	21	22	21	22	22	22		
PGAU	HY02	-1	-1	-1	-1	-1	-3	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	23	23	80	-1	-1	-1	19	19	19	19	19	19	-1	-1	-1	-1	-1	20	20	20	-1	-1	23	23	23		
PGAU	HY03	-1	-1	-1	18	18	20	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	24	21	22	22	20	20	28	28	22	22	22	22	22	21	21	22	-1	-1	-1	19	19	21	21	22	22	22	22			
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0</													

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																									
Total Hydro		187	189	185	206	205	200	186	187	185	188	188	188	190	188	209	186	185	189	287	334	362	616	810	968	843	863	460	407	722	791	825	828	887	884	848	518	469	471	472	617	1001	988	952	896	808	755	773	754	
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	22	24	23	23	24	24	23	23	23	23	24	24	23	23	24	25	25	23	25	24	22	22	0	0	0	0	11	24	27	27	28	26	28	28	28	30	28	29	28	28	28	30	28	28	28	29		
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		39	37	39	38	38	39	39	38	38	38	38	39	39	38	38	39	40	40	38	40	39	37	37	15	15	15	15	26	39	42	42	43	41	43	43	43	45	43	44	43	43	43	45	43	43	43	43	44	
Total Gen		15336	14967	14567	14305	14099	13851	13664	13517	13279	13092	13072	12928	12965	12881	12864	12524	12617	13176	13780	14122	14553	14927	15155	15252	15117	15008	14831	14816	15193	15316	15325	15424	15440	15410	15271	14985	14662	14588	14735	15557	16056	16127	16024	15957	15770	15702	15691	15262	
TIE-EGAT		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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TIE-HVDC		-29	-29	-29	-29	-29	-30	-29	-29	-28	-28	-29	-29	-30	-30	-28	-28	-30	-30	-29	-29	-28	-28	-29	0	0	32	30	-264	30	-30	-29	-29	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	
TIE-PLTG		33	4	5	-15	-24	-25	-11	-36	12	-10	-10	-12	-35	11	30	-3	-24	-32	4	14	-49	-6	-16	-5	-2	90	-21	-21	-7	-3	-3	-3	-3	12	18	30	5	15	-9	2	27	34	33	34	-28	9	-23	-64	
Interconnection		4	-25	-24	-44	-53	-57	-40	-65	-17	-39	-39	-41	-64	-19	2	-32	-54	-62	-24	-15	-77	-35	-46	-5	-2	122	9	-285	23	-33	-33	-33	-33	-18	-13	-1	-24	-13	-37	-27	-2	6	4	5	-58	-21	-52	-93	
System Total		15332	14992	14591	14349	14152	13908	13704	13582	13296	13131	13111	12969	13029	12900	12862	12556	12671	13238	13804	14137	14630	14962	15201	15257	15119	14886	14822	15101	15170	15349	15358	15457	15473	15428	15284	14986	14686	14601	14772	15584	16058	16121	16020	15952	15828	15723	15743	15355	
SRev ST-Coal		162	165	194	158	203	278	85	243	241	243	235	253	239	238	229	275	246	192	195	238	221	236	235	398	391	403	387	392	400	392	408	378	396	392	391	268	211	170	171	179	167	161	163	171	166	160	157	164	
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	
SRev CCGT-Gas		1013	762	844	722	687	685	822	886	1016	1207	1233	1359	1339	1421	1467	1740	1677	1125	627	488	244	331	298	342	412	525	322	289	231	186	194	134	154	184	336	632	1045	1160	1014	328	225	254	278	283	319	234	211	522	
SRev ST-Gas		0	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	8	6	7	7	6	6	7	7	7	6	6	7	7	6	5	5	7	5	6	8	8	0	0	0	0	0	19	6	3	3	2	4	2	2	2	0	2	1	2	2	2	2	2	2	2	2	1	
Syncon		851	1038	1038	887	887	813	1038	1038	1038	1038	1038	1038	1038	1038	887	1038	1038	1038	937	937	786	615	615	126	126	313	464	565	464	313	313	313	313	313	464	766	766	766	615	313	313	313	464	464	313	313	313		
Hydro		120	117	121	251	252	241	120	119	121	118	118	118	116	118	248	120	121	117	120	73	196	213	319	850	675	468	570	522	408	490	506	503	494	497	533	462	209	207	206	212	480	493	529	434	422	400	532	401	
S.Reserve Total		2152	2090	2203	2025	2036	2107	2071	2293	2423	2613	2631	2774	2738	2822	2838	3179	3087	2477	1886	1741	1453	1403	1475	1716	1604	1709	1743	1787	1509	1384	1424	1330	1361	1388	1575	1828	2231	2305	2158	1336	1187	1225	1328	1395	1373	1109	1215	1401	