

Daily System Generation Summary on Friday

Friday, August 09, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,120 MW
Distillate	0 MW
Total TNB	2,120 MW
Total IPP	15,458 MW
Total Co-Gen	0 MW
Total System	20,657 MW

Generation Mix

Type	MWh	Percentage
Hydro	6,129	1.65 %
Gas	40,222	10.82 %
Total TNB	46,351	12.47 %
ST-Coal	206,107	55.47 %
LSS	1,581	0.43 %
Gas	116,729	31.41 %
Total IPP	324,417	87.31 %
Co-Gen	1,337	0.36 %
Total Co-Gen	1,337	0.36 %
Total Generation	372,105	100.14 %
PLTG	-204	-0.05 %
HVDC	730	0.20 %
Interconnection	526	0.14 %
Net Energy	371,579	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,899 MW
TNB Generation	2,385 MW
IPP Generation	14,865 MW
Spinning Reserve	1,595 MW
Maximum Demand	17,306 MW
Net Energy	371,579 MWH
Load Factor	89.46 %

Fuel Cost

Total Cost:	70,265,981.40 RM
Cost per Unit	18.87 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	635
Hydro	319
Syncon	671
Thermal	168
Total	1,793

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	49
PGPS	36
TJGS	209
Total TNB	295

CBPS	52
KLPP	95
MPSS	42
NPRI	157
PGLA	105
PLPS	83
PTEK	2
SGB3	66
SGRI	82
SKSP	50
YPKA	27
Total IPP	762

Total Gas 1,057

Total Gas Required 1,057

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	15571	14871	14396	13903	13489	13344	13445	13436	13583	15253	16255	16686	16590	16235	16388	17094	17306	16997	15844	15615	16630	16680	16144	15839

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 26, 2019 7:57:43 AM

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

Daily MW Generation on Friday

[illegible]

Daily MW Generation on Friday

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	64	66	63	64	65	65	64	64	67	66	67	67	67	66	69	121	150	216	216	217	217	197	194	221	219	219	218	215	216	216	213	197	196	198	234	217	216	215	218	215	148	194	165					
SGRI	GT23	109	109	110	109	110	110	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
SGRI	ST24	58	60	60	60	59	59	59	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
SKSP	BLK1	222	244	225	269	239	217	219	222	218	222	253	231	219	228	230	217	221	221	271	294	327	299	312	299	306	287	300	284	316	282	308	304	330	298	326	312	249	253	248	282	249	283	313	282	275	281	284	336
TJGS	GT1A	222	226	211	204	214	152	181	187	144	195	226	212	185	173	190	151	152	223	226	222	218	221	221	219	221	220	221	218	220	220	220	219	221	222	218	219	158	190	220	219	221	221	223	219	219	220	220	
TJGS	GT1B	215	217	204	200	211	150	175	176	143	185	219	214	176	157	182	141	145	217	216	218	215	213	212	211	216	213	216	212	214	211	213	212	211	212	212	213	215	155	184	214	210	212	215	213	213	215	216	215
TJGS	ST1C	234	227	228	241	244	195	207	222	192	228	244	241	221	187	218	186	210	244	244	248	244	244	244	244	244	244	244	244	244	244	244	244	244	244	244	195	195	242	245	245	245	245	245	242	242	242		
TJGS	GT2A	212	214	213	221	226	226	226	226	227	145	146	149	148	147	147	147	147	202	213	213	210	210	215	216	215	215	215	216	213	214	217	214	217	214	214	217	179	148	146	209	209	210	210	209	209	209	209	209
TJGS	GT2B	209	209	209	201	197	197	197	197	197	143	142	142	142	142	144	144	144	198	209	209	204	205	201	198	201	201	201	201	200	200	200	200	200	200	198	175	142	144	207	204	206	206	205	205	205	205	204	
TJGS	ST2C	261	261	261	261	261	261	261	261	215	212	212	212	212	212	212	212	212	245	260	260	258	258	258	258	258	258	258	258	258	258	258	258	258	258	258	252	213	213	257	257	257	257	257	257	257	257	257	
YPKA	GT21	136	137	136	135	136	94	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66			
YPKA	ST20	63	63	63	62	63	53	39	39	38	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39			
Total CCGT-Gas		6191	6034	5921	6015	5961	5609	5569	5331	5186	5116	5168	5115	5030	4980	4868	4678	4950	5688	6034	6347	6827	7008	7232	7171	7158	6925	6877	6930	7241	7437	7782	7739	7835	7777	7726	7493	6898	6674	6679	7575	7605	7628	7623	7435	7289	7211	7192	6828
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	109	108	70	50	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	109	108	70	50	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY02	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
CEND	HY01	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	8		
CEND	HY03	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	8		
HTRG	HY01	125	-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	63	63	-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	HY02	25	25	25	25	25	25	24	24	24	25	24	25	25	25	24	25	25	25	24	24	25	25	24	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
KNYR	HY01	95	95	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	96	96	-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		
KNYR	HY03	95	95	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	99	99	99	99	59	59	59	63	60	65	59	60	60	70	64	58	63	61	59	60	70	59	59	60	59	59	59	59	57	58	61	59	62	61	61	71	59	63	59	60	59	62	59	59	59	58	59	93
LPJA	HY01	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
LPJA	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	0	0	0	0		
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	22	-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	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	22	-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		
PGAU	HY03	-1	-1	-1	21	-1	-1	-1	19	-1	-1	-1	19	-1	-1	23	-1	-1	-1	22	22	-1	-1	-1	21	-1	-1	-1	-1	20	-1	-1	21	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	0	0	0	0	0	0	0	0	0		
SIHY	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	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	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	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	0	0	0	0	0	0		
SYPS	HY03	0	0</																																														

Daily MW Generation on Friday

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
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SSLS	LSS1	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 LSS		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	22	21	20	20	21	21	20	21	19	21	22	22	21	19	19	19	18	18	19	18	18	19	19	20
PCUF	CUFK	29	38	38	39	40	39	40	38	38	38	39	36	37	40	39	39	37	37	38	38	37	39	37	40
Total Co-Gen		51	59	58	59	61	60	60	59	58	59	57	60	58	59	61	58	60	55	56	57	57	56	56	55
Total Gen		15644	15295	14934	14600	14408	13992	13924	13722	13548	13414	13391	13383	13480	13600	13497	13297	13563	14686	15268	15680	16219	16427	16666	16739
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
TIE-HVDC		30	30	31	31	31	31	31	30	30	31	30	30	30	30	30	30	30	31	31	31	31	31	30	30
TIE-PLTG		43	60	33	-26	-18	-33	-10	30	30	-2	16	-30	6	4	30	-1	-48	-2	-3	-54	-47	15	-20	-6
Interconnection		73	90	63	5	12	-1	21	59	59	29	47	0	35	34	61	29	-18	28	27	-23	-16	45	11	24
System Total		15571	15205	14871	14595	14396	13993	13903	13663	13489	13385	13344	13383	13445	13566	13436	13268	13583	14665	15253	15721	16255	16393	16686	16746
SRev ST-Coal		155	206	208	176	254	249	249	254	264	262	311	300	432	274	281	282	286	274	137	113	111	166	156	165
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
SRev CCGT-Gas		971	990	717	623	677	1029	1069	1167	1236	1306	1254	1307	1392	1442	1554	1744	1472	961	981	820	558	612	582	643
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
SRev LSS		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		9	1	2	1	-1	0	0	1	2	1	3	0	2	1	-1	2	0	5	4	3	3	4	4	5
Syncon		627	753	980	829	980	980	980	678	829	980	980	829	980	980	829	829	655	655	705	655	894	894	894	743
Hydro		163	162	95	216	127	127	127	386	257	121	130	257	126	116	250	256	122	123	126	255	244	362	371	395
S.Reserve Total		1925	2112	2002	1845	2037	2385	2425	2486	2588	2670	2678	2693	2932	2813	2913	3113	2860	2343	2228	2020	1745	1799	1768	1913
		1965	2139	2230	2203	1996	1903	1735	1692	1595	1667	1623	1763	2375	2599	2583	1695	1642	1609	1683	1750	1875	1864	2107	1895