

Daily System Generation Summary on Friday

Friday, April 05, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,516 MW
Distillate	0 MW
Total TNB	2,516 MW
Total IPP	16,461 MW
Total Co-Gen	72 MW
Total System	22,128 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,595	2.08 %
Gas	41,239	11.30 %
Total TNB	48,834	13.38 %
ST-Coal	200,077	54.82 %
LSS	1,505	0.41 %
Gas	111,604	30.58 %
Total IPP	313,186	85.81 %
Co-Gen	1,787	0.49 %
Total Co-Gen	1,787	0.49 %
Total Generation	363,807	99.68 %
PLTG	-479	-0.13 %
HVDC	-698	-0.19 %
Interconnection	-1,177	-0.32 %
Net Energy	364,984	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:	15:30:00 Hour
Total Set On Bus	19,045 MW
TNB Generation	2,816 MW
IPP Generation	14,519 MW
Spinning Reserve	1,635 MW
Maximum Demand	17,485 MW
Net Energy	364,984 MWH
Load Factor	86.98 %

Fuel Cost

Total Cost:	68,364,792.42 RM
Cost per Unit	19.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	478
Hydro	377
Syncon	955
Thermal	91
Total	1,901

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Cloudy	25

Gas Usage

Station	(mmscfd)
GLGR	51
PGPS	36
SRDG	8
TJGS	208
Total TNB	302
CBPS	52
KLPP	94
MPSS	44
NPRI	146
PGLA	107
PLPS	91
PTEK	12
SGB3	35
SGRI	72
YPKA	77
Total IPP	731
Total Gas	1,033
Total Gas Required	1,033

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	14645	13928	13590	13220	13017	12752	13065	13051	13323	15025	15953	16565	16550	16246	16543	17327	17305	16965	15833	15565	16440	16285	15835	15590

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 24, 2019 10:21:33 AM

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

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	
JMAH	U001	691	694	692	693	694	693	693	694	693	693	694	693	693	692	692	693	692	693	692	693	692	693	694	694	692
JMAH	U002	693	694	691	698	692	695	692	694	693	694	694	694	695	693	695	693	696	693	696	692	695	694	693	694	692
JMJG	U001	668	677	677	677	675	676	677	678	680	679	678	676	675	679	678	679	680	675	677	686	674	682	677	676	672
JMJG	U002	660	670	672	670	671	672	671	670	673	672	672	674	671	671	679	669	674	671	673	672	672	673	664	671	671
JMJG	U003	665	665	665	664	667	665	666	660	667	668	640	617	598	682	674	669	671	672	667	668	668	673	670	672	669
JMJG	U004	985	905	818	800	801	799	801	798	800	799	799	800	800	800	801	800	800	871	956	983	985	983	985	983	985
JMJG	U005	981	841	801	801	807	805	801	803	804	801	803	801	801	804	801	804	801	917	976	979	981	981	981	982	979
PKLG	U003	284	284	284	283	283	283	283	282	282	283	283	285	283	285	283	281	281	282	284	284	282	284	281	281	282
PKLG	U004	280	281	281	279	280	279	272	279	276	279	278	280	280	280	280	279	280	280	279	277	280	280	279	278	279
PKLG	U005	468	465	468	467	467	466	466	467	466	468	467	468	468	469	467	468	468	469	469	468	467	465	468	471	469
TBIN	U001	687	689	690	688	690	690	689	687	691	688	689	690	689	689	688	691	691	687	688	687	689	687	688	684	687
TBIN	U002	692	691	690	692	687	692	693	692	690	694	693	693	689	692	692	692	691	692	694	692	691	692	692	695	691
TBIN	U003	691	691	689	691	692	693	690	693	690	691	692	689	690	690	689	692	691	690	691	690	687	690	688	690	692
Total ST-Coal		8445	8247	8118	8103	8106	8108	8094	8097	8105	8108	8081	8059	8033	8121	8121	8116	8116	8297	8441	8477	8470	8486	8469	8477	8466
Total ST-Oil		0	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 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
CBPS	BLK2	348	362	361	362	362	367	363	362	363	303	239	219	219	222	221	220	258	364	357	358	358	361	361	358	360
GLGR	GT01	67	69	67	68	70	67	69	67	69	68	70	70	69	69	68	68	90	101	100	101	102	103	101	66	67
GLGR	GT02	69	68	69	68	69	69	69	69	69	69	68	68	69	69	69	89	101	101	102	102	102	102	67	68	68
GLGR	ST1C	70	70	70	70	70	70	70	70	70	70	70	71	70	70	70	78	89	89	89	91	91	91	72	70	70
KLPP	GT13	110	17	0	0	0	0	0	0	0	0	0	0	0	0	33	141	111	124	114	143	142	133	130	137	113
KLPP	GT14	121	125	123	82	81	82	81	81	81	82	81	81	81	81	80	110	113	124	134	125	151	150	143	141	145
KLPP	GT15	118	126	117	78	78	76	76	76	77	76	77	79	78	78	78	108	111	123	131	122	145	145	141	138	144
KLPP	ST17	181	165	121	93	89	88	88	92	92	86	86	87	87	90	81	93	109	185	185	189	187	204	200	196	200
MPSS	GT01	94	98	96	98	98	98	98	97	97	96	99	99	98	98	98	98	97	97	98	97	93	107	106	106	72
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	41	90	107	107	107	72	70
MPSS	ST01	40	44	43	43	43	43	44	43	44	43	44	43	42	44	42	43	42	45	47	60	113	114	114	80	67
NPRI	BLK1	499	518	512	470	420	420	342	336	329	329	330	340	441	379	340	332	328	492	498	506	505	507	506	499	499
NPRI	BLK2	500	520	484	468	421	412	345	329	325	322	330	340	438	376	334	323	328	490	499	506	507	508	507	502	501
PCGP	PGRG	556	594	576	594	603	594	608	595	589	583	408	410	408	600	597	591	602	602	583	602	603	608	604	592	590
PGLA	GT11	160	168	164	209	167	168	169	165	167	164	167	167	179	168	172	166	168	170	165	187	207	227	228	226	227
PGLA	GT12	163	170	167	210	170	170	171	170	169	168	170	171	183	171	176	169	172	172	168	191	208	228	229	230	229
PGLA	ST10	202	206	204	229	208	208	205	207	205	203	207	205	210	205	205	205	208	203	210	235	247	253	254	254	253
PGPS	GT3A	70	72	72	72	71	72	72	71	71	71	71	71	71	72	71	72	72	72	72	72	72	94	94	93	
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	75	94	94	94	67	
PGPS	ST3C	30	30	30	30	30	30	30	30	30	30	30	30	30	29	29	30	30	30	30	30	61	91	92	92	
PLPS	GT11	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	113	129	113	138	118	115	120	
PLPS	GT12	126	132	129	63	63	63	63	60	61	60	64	64	64	63	62	93	119	116	133	117	144	123	118	124	
PLPS	GT13	114	120	118	61	59	61	61	59	57	57	60	61	61	59	61	61	62	109	110	126	111	135	115	113	
PLPS	ST18	204	140	138	89	84	85	85	85	85	81	85	85	85	85	86	92	132	195	210	199	209	201	198	207	
SGB3	GT33	107	111	110	115	114	114	114	115	111	112	114	113	114	115	115	115	116	115	113	116	112	116	115	115	116
SGB3	ST34	59	59	59	60	60	60	60	60	60	59	59	60	60	60	60	60	60	60	60	61	61	61	61	61	61
SGRI	GT11	134	110	110	110	110	110	109	109	109	109	109	110	110	110	109	110	109	109	115	111	111	111	117	118	118
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	121	121	120	120	119	119
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38	135	106	106	114	118	115	115
SGRI	ST14	76	63	63	63	63	63	63	64	64	64	64	64	68	66	65	66	66	65	66	64	140	140	155	209	
TJGS	GT1A	127	143	135	216	212	211	185	182	164	141	180	206	225	210	202	162	152	135	199	227	224	232	232	229	232

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	
TJGS	GT1B		121	135	130	210	202	201	175	169	155	130	169	198	211	207	195	155	150	128	194	216	214	222	219	223	223	223	223	223	215	215	214	217	216	213	216	211	202	199	217	213	211	211	216	216	213	216	210	191
TJGS	ST1C		173	183	176	236	232	236	228	212	184	178	201	218	235	232	228	188	206	189	217	243	247	254	254	254	254	254	247	247	247	247	247	247	247	240	233	229	232	238	241	242	234	241	241	237	237	230		
TJGS	GT2A		212	209	211	211	211	147	147	147	147	147	147	147	147	147	147	148	217	213	213	213	213	220	220	220	220	220	220	213	213	213	213	213	213	213	213	213	216	213	214	214	214	214	214	214	214	214		
TJGS	GT2B		207	207	207	207	207	142	142	142	143	143	143	144	144	145	145	144	213	210	208	209	206	219	219	219	218	218	218	209	209	209	209	209	209	209	209	211	211	211	211	211	211	211	210	210	210	210		
TJGS	ST2C		255	255	255	255	255	210	210	210	210	210	210	210	210	210	210	210	248	257	257	257	265	265	265	265	265	265	265	260	260	260	260	260	260	260	260	258	258	258	258	258	258	258	258	258	258			
YPKA	GT11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	126	126	128	125	125	125	125	125	125	125	125	124	125	124	123	124	125	114	99	128	127	128	128	130	127	127	129	127		
YPKA	GT12		125	67	68	68	67	68	68	67	67	67	67	68	67	67	68	68	68	67	128	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	117	101	129	129	128	129	129	129	128	129		
YPKA	ST10		53	32	31	31	32	32	32	32	32	31	32	31	32	31	32	32	32	31	99	120	121	122	122	121	122	122	122	122	122	122	122	122	122	120	121	121	115	103	122	124	124	124	124	124	124	123		
YPKA	GT21		115	67	67	67	67	66	67	67	66	67	67	67	67	67	67	67	66	67	123	125	124	126	124	124	123	126	125	125	125	126	125	124	125	123	125	125	65	65	130	131	132	132	132	133	132	133		
YPKA	ST20		58	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	60	61	61	62	61	61	62	62	62	62	62	62	62	62	62	62	61	62	62	40	39	62	63	64	64	64	64	64	65		
Total CCGT-Gas			5764	5494	5322	5345	5128	4941	4749	4680	4600	4459	4355	4433	4714	4733	4624	4479	4860	5665	6226	6603	6840	7210	7383	7422	7351	7243	7109	7342	7278	7417	7469	7521	7470	7462	7282	7355	7002	6704	6812	7306	7450	7481	7329	7123	7014	6794	6727	6386
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	108	107	107	107	103	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	110	107	106	109	108	109	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	105	105	105	104	104	104	105	105	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	75	124	125	124	125	123	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	73	125	125	125	94	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	105	290	517	567	569	569	534	105	0	0	0	0	0	0	0	0	0		
BSIA	HY02		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	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	HY01		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	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	HY03		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	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			
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
HTRG	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	-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	25	25	25	25	26	25	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	25	26	22	22	23	22	23	22	23	23	23	22	23	23	22			
KNYR	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
KNYR	HY03		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60			
LPIA	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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	0		
LPIA	HY02		15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	26	26	25	20	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	10	16	16	15	16		
MNOR	HY01		7	7	7	7	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	5	5	7	7	7	7	7	7	7	3	6	6	6	4	4	4	4				
PGAU	HY01		-1	-1	-1	-1	-1	19	-1	19	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1			
PGAU	HY02		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-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	HY04		21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	21			
SIHY	HY01		31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	30	30	50	30	30	30	30	30	49	49	49	49	49	49	49	0	0	0	31	31	31	31	31	0	0	0	
SIHY	HY02		30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	30	30	51	30	30	30	30	30	50	50	50	50	50	50	50	0	0	0	12	30	30	30	0	0	0		
SIHY	HY03		31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	51	51	0	0	0	0	31	31	31	31	31	0	0	
SYPS	HY01		25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	17	17	25	17	17	17	17	17	17	25	25	25	25	25	25	25	0	0	0	25	25	25	25	25	0	0		
SYPS	HY02		25	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	0	0	0	25	25	25	25	25	0	0		
SYPS	HY03		0	0	0																																													

Daily MW Generation on Friday

[illegible]