

Daily System Generation Summary on Thursday

Thursday, May 09, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,332 MW
Distillate	0 MW
Total TNB	2,332 MW
Total IPP	16,819 MW
Total Co-Gen	0 MW
Total System	21,527 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,851	2.07 %
Gas	34,692	9.17 %
Total TNB	42,543	11.24 %
ST-Coal	218,768	57.80 %
LSS	1,169	0.31 %
Gas	116,205	30.70 %
Total IPP	336,142	88.82 %
Co-Gen	926	0.24 %
Total Co-Gen	926	0.24 %
Total Generation	379,611	100.30 %
PLTG	414	0.11 %
HVDC	732	0.19 %
Interconnection	1,146	0.30 %
Net Energy	378,465	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:	15:00:00 Hour
Total Set On Bus	19,261 MW
TNB Generation	2,374 MW
IPP Generation	15,221 MW
Spinning Reserve	1,625 MW
Maximum Demand	17,607 MW
Net Energy	378,465 MWH
Load Factor	89.56 %

Fuel Cost

Total Cost:	71,592,300.89 RM
Cost per Unit	18.86 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	522
Hydro	277
Syncon	926
Thermal	172
Total	1,897

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	49
PGPS	33
SRDG	10
TJGS	166
Total TNB	258
CBPS	51
KLPP	95
MPSS	37
NPRI	147
PGLA	95
PLPS	80
PTEK	9
SGB3	50
SGRI	69
SKSP	48
YPKA	76
Total IPP	756
Total Gas	1,014
Total Gas Required	1,014

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	15473	14807	14219	13924	13607	13479	13434	13258	13800	15527	16282	16860	16796	16594	17338	17607	17601	17063	16541	16155	17004	17220	16878	16587

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, June 24, 2019 9:46:36 AM

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

Daily MW Generation on Thursday

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	692	693	692	692	692	693	694	693	693	693	694	692	692	693	693	695	693	693	692	693	691	693	691	692	693	
JMAH	U002	693	694	694	694	694	692	695	694	694	693	694	691	693	695	693	691	694	694	694	691	693	694	695	696	694	
JMHE	U001	768	770	769	770	769	773	771	770	771	769	769	770	509	498	319	320	320	321	323	316	0	21	146	145	145	
JMJG	U001	674	667	660	672	676	668	670	678	673	673	672	668	677	673	672	673	673	671	674	669	671	672	672	673	671	
JMJG	U002	674	677	673	675	674	671	673	671	671	675	673	676	672	671	672	674	672	673	672	675	672	668	673	673	672	
JMJG	U003	677	666	666	667	670	670	668	668	665	664	662	662	664	667	665	618	675	680	672	673	668	671	668	667	667	
JMJG	U004	980	982	978	892	840	842	841	811	810	811	810	813	810	809	810	810	814	980	986	987	986	985	987	986	986	
JMJG	U005	982	981	973	849	828	834	829	801	798	799	801	799	797	799	797	801	803	916	975	977	977	978	980	976	983	
PKLG	U003	282	284	283	284	284	283	282	283	283	281	283	283	282	282	282	283	285	285	286	284	282	286	284	282	283	
PKLG	U004	282	281	280	282	282	282	281	280	278	280	280	281	280	282	280	281	282	282	281	281	278	280	279	280	281	
PKLG	U005	470	471	468	468	469	470	468	469	470	470	470	467	471	470	469	469	472	474	470	468	467	469	468	471	470	
PKLG	U006	468	468	472	471	464	465	468	461	463	467	464	465	471	466	466	469	466	461	465	465	467	466	472	469	466	
TBIN	U001	686	690	687	682	410	344	347	354	351	351	352	348	347	349	348	351	349	349	354	349	347	349	352	349	350	
TBIN	U002	689	688	691	692	691	691	691	690	691	693	690	691	691	689	693	692	691	691	691	686	691	691	689	690	692	
TBIN	U003	688	690	689	691	687	692	689	689	690	687	689	684	687	682	690	691	689	692	689	687	700	689	683	686	690	
Total ST-Coal		9705	9702	9675	9481	9130	9070	9065	9012	9002	9006	9002	8988	8744	8727	8547	8522	8574	8776	8919	8907	8913	8872	8611	8582	8618	
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	354	362	355	354	364	357	356	277	217	217	219	221	215	220	220	222	230	359	354	361	359	362	360	360	357	
GLGR	GT01	68	70	68	69	69	68	68	68	68	67	69	67	69	69	67	69	69	70	69	68	96	103	102	103	102	
GLGR	GT02	68	68	68	68	68	67	67	68	68	68	68	68	68	69	68	69	68	98	103	103	103	103	103	103	102	
GLGR	ST1C	69	70	70	70	70	70	71	71	71	70	70	70	70	70	70	69	70	83	90	91	91	91	91	91	90	
KLPP	GT13	10	0	0	0	0	0	0	0	0	0	0	0	0	53	117	115	113	119	137	138	134	115	115	110	139	
KLPP	GT14	131	129	127	130	112	102	82	81	81	80	82	85	80	86	82	82	86	114	127	123	124	129	152	153	144	
KLPP	GT15	120	124	119	119	104	76	75	76	76	76	76	79	81	78	76	79	115	123	123	123	126	148	145	140	120	
KLPP	ST17	155	127	127	126	117	108	93	92	92	92	92	92	92	94	89	97	97	117	185	190	190	194	206	202	190	
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	28	65	79	82	90	109	88	89	90	89	86	108	108	
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	44	84	107	107	72	95	100	101	
MPSS	ST01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	49	36	36	37	36	54	112	113	81	88	
NPRI	BLK1	500	511	494	502	507	501	502	476	504	328	323	339	348	388	328	338	382	442	422	503	517	500	505	504	503	500
NPRI	BLK2	501	512	496	502	509	502	504	476	508	327	321	337	347	386	330	337	379	418	397	506	504	503	506	506	505	503
PCGP	PGRG	581	594	574	581	590	582	584	598	604	562	492	402	597	602	591	402	601	597	592	599	598	600	604	605	601	598
PGLA	GT11	160	173	0	0	0	0	0	0	0	0	0	0	0	113	127	228	228	225	213	223	223	223	223	212	211	219
PGLA	GT12	166	174	177	151	156	151	151	156	157	156	155	158	155	161	160	175	185	236	235	234	219	227	230	229	231	218
PGLA	ST10	213	98	95	90	90	90	90	90	90	90	90	90	90	91	136	254	254	253	241	247	252	252	252	241	239	244
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	72	71	94	65	88	87	88	88
PGPS	GT3B	0	0	0	0	0	0	0	6	79	79	79	79	79	79	80	94	94	71	71	72	71	71	71	94	67	87
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	0	5	42	42	29	29	29	30	28	35	91	64	83	
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	145	141	146	114	137	128	119	113	113	
PLPS	GT12	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	119	140	132	123	118	117	115	
PLPS	GT13	128	130	126	124	125	125	125	125	125	124	124	124	124	125	125	125	121	123	126	127	126	110	132	123	116	
PLPS	ST18	120	61	59	59	59	58	59	59	59	59	59	59	59	59	59	59	60	58	143	143	156	199	212	209	204	
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	108	
SGB3	GT33	110	110	110	110	112	112	112	116	115	114	111	111	115	114	111	111	114	114	111	114	116	116	116	109		
SGB3	ST34	65	65	65	65	64	64	64	66	66	65	65	66	66	66	66	66	66	66	67	67	66	66	66	66	137	
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	75	126	109	109	109	109	107	106	
SGRI	GT22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	75	126	109	109	109	

Daily MW Generation on Thursday

		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	109	112	106	109	107	107	108	112	111	111	108	111	111	107	112	111	107	114	115	115	118	114	114	113	114	110	113	114	113	111	124	117	107	141	113	109	113	108	112	116	127	18	0	0	0	0			
SGRI	ST24	61	61	60	60	65	62	61	60	61	61	63	66	63	63	64	60	61	63	62	62	108	139	143	190	189	192	195	187	200	196	196	195	198	199	186	212	193	194	194	197	192	196	207	175	140	139	139	138	
SKSP	BLK1	219	219	218	220	218	221	219	218	217	221	218	219	218	231	220	218	223	215	219	225	218	300	345	332	314	298	298	298	300	298	299	297	345	339	267	335	218	219	218	217	341	230	243	328	285	283	224	219	
TJGS	GT1A	213	223	204	157	200	185	173	143	143	139	139	141	143	148	143	139	144	145	142	178	208	235	232	232	232	231	233	153	196	189	189	189	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	GT1B	205	215	195	149	192	173	165	134	132	130	129	134	134	139	130	130	136	135	136	170	198	215	218	218	218	221	222	175	179	179	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	ST1C	244	241	232	194	227	215	211	181	181	178	178	178	178	178	179	179	176	173	187	231	249	257	257	257	257	199	187	210	97	97	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TJGS	GT2A	208	208	198	182	188	186	177	147	147	147	147	147	148	148	146	146	213	213	213	213	223	219	219	213	213	221	221	221	218	219	221	219	221	219	221	213	213	213	213	213	212	212	212	213	213	213	213		
TJGS	GT2B	205	205	195	180	185	183	176	143	143	143	143	143	143	146	145	145	212	212	212	209	220	217	217	217	209	209	218	218	218	218	218	218	218	218	209	209	209	209	211	211	211	209	209	209	209	210	211		
TJGS	ST2C	257	257	257	244	248	242	242	211	211	211	211	211	211	211	211	211	259	259	259	259	264	266	266	266	261	261	263	266	266	266	266	266	266	266	266	260	260	260	260	260	260	260	260	260	260	260	260	260	
YPKA	GT11	125	68	67	68	68	68	68	68	68	67	68	68	68	68	68	68	68	125	126	126	125	125	125	124	123	123	121	125	123	123	123	122	123	123	123	123	65	64	127	129	127	128	130						

Daily MW Generation on Thursday

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 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	
BDLS	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	
CHLS	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	
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	26	27	28	27	28	26	26	27	27	27	27	27	28	28	28	27	26	28	28	27	28	27	27	28	
PCUF	CUFK	13	14	14	14	11	13	12	12	11	11	11	12	11	11	12	11	12	10	11	9	10	12	12	11	
Total Co-Gen		39	41	42	41	39	39	38	39	38	38	38	39	40	38	37	40	39	37	41	40	38	39	36	38	
Total Gen		15535	15210	14853	14480	14259	14057	13981	13662	13642	13642	13556	13502	13495	13677	13331	13275	13832	14944	15536	15981	16341	16700	16874	17007	
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	30	30	30	30	30	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	32	32	
TIE-PLTG		32	8	16	14	10	18	27	-7	5	12	46	-9	30	-5	43	-14	1	10	-21	12	29	3	-16	-42	
Interconnection		62	38	46	44	40	48	57	24	35	42	77	22	61	25	73	16	32	40	9	43	59	33	14	-12	
System Total		15473	15172	14807	14436	14219	14009	13924	13638	13607	13600	13479	13480	13434	13652	13258	13259	13800	14904	15527	15938	16282	16667	16860	17019	
SRev ST-Coal		144	147	174	300	379	293	300	294	301	298	303	317	287	305	288	311	262	239	114	126	120	161	195	151	
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		1114	1072	964	1143	1013	1153	1223	1517	1599	1935	2020	2060	1930	1759	1917	1955	1798	1102	1088	849	587	535	490	417	
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		1	-1	-2	-1	1	1	2	1	2	2	1	1	0	2	1	1	0	2	3	0	1	3	-1	0	2
Syncon		1115	1115	1115	1115	1115	1115	964	1115	1014	1014	1014	1014	863	863	1014	1014	777	741	1115	964	1115	777	928	1115	
Hydro		135	133	139	138	136	138	138	262	131	100	97	98	97	221	103	102	97	113	243	241	112	129	357	413	
S.Reserve Total		2509	2466	2390	2695	2644	2700	2778	3038	3148	3349	3436	3490	3329	3148	3324	3383	3172	2468	2310	2082	1833	1840	1822	1721	