

Daily System Generation Summary on Friday

Friday, June 05, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,522 MW
Distillate	0 MW
Total TNB	2,522 MW
Total IPP	15,642 MW
Total Co-Gen	0 MW
Total System	20,987 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,555	3.94 %
Gas	35,493	10.31 %
Total TNB	49,048	14.25 %
ST-Coal	197,622	57.42 %
LSS	2,280	0.66 %
Gas	95,446	27.73 %
Total IPP	295,348	85.82 %
Co-Gen	387	0.11 %
Total Co-Gen	387	0.11 %
Total Generation	344,783	100.18 %
PLTG	-89	-0.03 %
HVDC	718	0.21 %
Interconnection	629	0.18 %
Net Energy	344,154	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	17,773 MW
TNB Generation	2,513 MW
IPP Generation	13,441 MW
Spinning Reserve	1,752 MW
Maximum Demand	16,002 MW
Net Energy	344,154 MWH
Load Factor	89.61 %

Fuel Cost

Total Cost:	56,391,527.58 RM
Cost per Unit	16.36 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	561
Hydro	358
Syncon	1,016
Thermal	112
Total	2,047

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	46
TJGS	206
Total TNB	252
CBPS	55
KLPP	107
NPRI	158
PGLA	54
PLPS	71
SGB3	37
SGRI	22
SKSP	48
YPKA	54
Total IPP	606
Total Gas	858
Total Gas Required	858

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	14127	13548	13066	12784	12405	12242	12328	12236	12613	14171	14952	15409	15276	15036	15543	15969	15977	15625	14751	14616	15647	15417	15120	14874

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 12:58:40 PM

(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	694	693	692	694	693	692	694	695	691	694	692	693	693	691	692	692	692	691	692	692	693	692	692
JMAH	U002	694	695	694	699	693	696	693	694	696	694	696	694	694	695	697	699	695	694	694	695	693	695	694	696	695
JMHE	U001	326	327	325	353	326	312	303	295	263	133	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMHE	U002	978	983	978	981	813	779	782	781	781	780	780	781	781	769	982	985	980	978	978	982	982	981	982	975	977
JMIG	U002	670	672	673	673	671	674	673	672	672	675	673	672	674	674	671	682	663	673	669	668	671	671	672	674	671
JMIG	U004	899	899	900	896	898	812	788	791	788	789	790	789	788	788	789	790	789	788	788	867	900	900	900	900	901
PKLG	U003	281	283	281	280	280	282	282	278	283	278	283	282	281	280	281	281	283	282	281	282	282	280	281	283	282
PKLG	U004	278	277	280	282	279	277	280	281	277	279	280	282	281	280	279	280	279	279	276	277	282	287	278	281	277
PKLG	U005	465	468	466	461	466	467	467	466	465	467	468	466	466	466	467	466	467	466	466	460	468	468	468	467	467
PKLG	U006	71	94	118	143	164	165	164	162	136	156	230	269	329	357	355	352	349	347	349	349	350	348	349	349	349
TBIN	U001	690	652	649	649	673	691	690	690	690	688	689	690	692	691	691	690	693	689	691	688	689	690	688	689	691
TBIN	U002	693	689	684	690	690	691	692	691	690	690	694	691	687	693	693	692	686	696	693	689	691	689	691	691	692
TBIN	U003	690	690	687	691	688	692	691	688	690	691	689	691	689	689	686	689	690	692	691	691	690	692	688	686	691
TBIN	U004	984	983	953	866	784	783	782	781	781	782	783	783	784	783	783	782	783	785	782	866	953	982	983	981	984
Total ST-Coal		8410	8406	8382	8357	8117	8015	7980	7962	7906	7798	7793	7783	7839	7869	7861	7871	7844	7870	7864	8200	8346	8371	8376	8372	8365
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	358	359	361	358	361	361	361	360	363	358	360	360	362	362	363	304	333	367	367	368	363	362	366	365	359
GLGR	GT01	85	67	68	68	66	67	68	67	67	68	68	68	67	66	67	67	69	68	67	67	67	67	67	67	67
GLGR	GT02	85	67	68	68	68	68	68	68	68	68	68	67	68	68	68	68	69	69	69	68	69	68	68	68	68
GLGR	ST1C	81	73	72	71	71	71	72	72	72	72	71	72	72	72	71	71	71	71	71	71	71	71	72	71	71
KLPP	GT13	130	130	132	111	71	70	70	70	70	70	70	70	71	72	133	133	137	132	133	127	122	123	137	107	110
KLPP	GT14	140	141	142	122	78	78	79	78	79	79	79	83	79	78	80	81	158	156	156	158	157	158	157	113	117
KLPP	GT15	142	143	144	124	105	82	82	83	84	84	83	85	86	85	83	84	158	157	159	159	160	160	157	157	118
KLPP	ST17	198	194	194	185	148	136	135	135	135	135	135	135	140	140	137	135	141	199	203	199	196	201	196	196	
NPRI	BLK1	519	520	514	520	520	518	520	520	518	519	519	521	516	517	521	520	520	520	519	520	521	520	509	511	518
NPRI	BLK2	520	523	516	523	522	521	523	520	519	513	472	525	532	515	472	511	532	475	532	448	522	511	523	526	516
PCGP	PGRG	398	392	392	390	389	389	386	386	388	387	385	388	389	387	388	390	388	389	603	603	503	502	512	501	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGLA	GT12	254	253	238	184	183	188	184	185	184	198	199	200	184	184	184	184	246	245	245	245	254	247	241	183	
PGLA	ST10	114	114	114	91	93	91	91	91	90	91	89	95	90	90	91	90	97	109	109	109	109	108	113	108	
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT13	142	143	129	124	125	124	125	124	125	124	125	125	124	125	123	125	124	122	123	122	122	126	126	126	
PLPS	ST18	60	59	57	58	58	58	58	58	58	58	58	58	58	59	58	57	142	142	142	141	141	141	139	134	
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	139	137	137	138	134	130	134	135	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	31	62	141	145	143	143	143	139	136	133	131	
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	0	21	65	65	142	143	147	147	145	143	143	143	
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	0	0	38	52	51	31	30	30	51	67	141	141	139	140	
SGRI	ST24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	35	67	67	67	67	67	
SKSP	BLK1	260	261	269	239	218	223	219	219	217	217	219	220	217	221	221	221	218	223	220	229	230	224	262	300	
TJGS	GT1A	152	152	160	170	227	238	185	121	147	201	117	203	204	174	156	125	172	192	232	125	182	154	182	210	
TJGS	GT1B	145	148	154	161	220	217	180	111	143	187	110	198	194	168	154	113	166	186	217	119	176	147	179	202	
TJGS	ST1C	190	189	184	190	240	240	226	169	196	205	179	195	196	202	202	164	187	222	227	170	182	191	215	249	
TJGS	GT2A	218	218	218	218	218	218	219	207	147	149	147	147	147	148	148	147	218	219	219	219	218	217	216	219	
TJGS	GT2B	214	214	214	216	214	214	216	204	144	144	144	145	145	145	144	214	215	215	215	215	215	214	217	214	
TJGS	ST2C	261	261	261	261	261	261	261	211	211	209	209	209	209	209	209	209	238	259	259	259	259	259	259	259	259

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			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	4	3	10	18	11	16	16	30	27	32	27	34	39	34	25	22	10	7	3	1	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	2	5	7	9	15	26	30	33	36	38	39	38	30	25	31	34	29	7	21	7	10	6	3	1	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	11	45	79	116	145	178	253	251	298	301	326	315	303	277	286	260	191	217	213	160	137	99	54	28	20	1	0	0	0	0	0	0	0	0	
PCUF	CUFG	30	3	3	4	4	3	3	3	4	4	6	3	2	3	3	3	2	5	4	3	4	4	3	4	3	2	2	4	3	31	30	30	30	32	32	20	4	5	3	3	5	5	6	7	9	10	4	3		
PCUF	CUFK	30	2	3	4	4	3	4	3	4	3	5	2	3	3	3	4	2	4	3	3	4	3	5	7	2	1	2	4	3	27	28	27	34	35	34	35	3	3	5	4	3	1	3	3	5	2	4	4		
Total Co-Gen		60	5	6	8	8	6	7	6	8	7	11	5	5	6	6	7	4	9	7	6	8	7	8	11	5	3	4	8	6	58	58	57	64	67	66	55	7	8	8	7	8	6	9	10	14	12	8	7		
Total Gen		14157	13797	13600	13313	13071	12934	12788	12551	12416	12355	12250	12349	12400	12411	12335	12247	12651	13609	14174	14584	14959	15162	15354	15466	15324	15199	15092	15267	15513	15727	15931	15983	16010	16021	15631	15309	14760	14473	14629	15480	15699	15652	15465	15380	15089	15148	14909	14582		
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	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		31	31	29	29	29	29	30	30	30	30	31	31	29	29	30	30	30	30	29	29	30	30	29	30	30	30	30	30	30	30	31	31	30	30	31	30	30	29	29	30	30	30	30	30	30	30	30			
TIE-PLTG		2	12	27	-6	-20	-24	-23	15	-16	-8	-19	28	47	76	73	27	12	-4	-22	14	-20	-52	-81	-55	21	69	29	-50	-57	-51	-65	-27	6	-7	-20	6	-17	-28	-14	-7	26	-8	21	66	-57	12	8	-15		
Interconnection		33	43	56	23	9	5	7	45	14	22	12	59	76	105	103	57	42	25	7	43	10	-22	-52	-26	51	100	59	-20	-27	-21	-35	4	37	23	10	37	13	1	16	22	55	22	51	96	-28	42	38	15		
System Total		14127	13757	13548	13294	13066	12933	12784	12509	12405	12336	12242	12294	12328	12310	12236	12194	12613	13588	14171	14544	14952	15187	15409	15495	15276	15102	15036	15290	15543	15751	15969	15983	15977	16002	15625	15276	14751	14475	14616	15461	15647	15633	15417	15287	15120	15109	14874	14570		
SRev ST-Coal		145	149	213	264	345	412	387	406	460	421	373	381	378	339	345	335	364	340	342	231	119	94	89	93	100	100	103	99	115	90	86	94	93	99	83	103	92	101	85	43	4	106	99	103	91	107	99	107		
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	0	
SRev CCGT-Gas		722	766	799	1101	1099	1122	1228	1447	1529	1419	1761	1392	1396	1574	1639	1875	1555	849	674	845	740	641	514	452	687	748	740	704	714	673	491	400	385	396	639	686	980	997	855	412	374	307	464	544	724	554	765	816		
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	0	0	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	0	0	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		10	65	64	62	62	64	63	64	62	63	59	65	65	64	64	63	66	61	63	64	62	63	62	59	65	67	66	62	64	12	12	13	6	3	4	15	63	62	62	63	62	64	61	60	56	58	62	63		
Syncon		1254	1204	1456	1305	1305	1456	1456	1456	1305	1305	1456	1456	1305	1305	1305	1305	1204	1355	1355	1355	1355	1268	1268	930	1117	1268	930	894	894	793	642	793	793	980	829	1167	1167	1016	642	880	865	865	1016	1016	1167	1167	1016			
Hydro		199	406	194	307	311	170	177	176	175	288	280	152	153	286	289	306	296	310	134	140	126	146	212	208	443	343	294	539	468	455	512	623	494	465	387	461	303	271	398	497	335	373	413	264	276	116	148	283		
S.Reserve Total		2330	2590	2726	3039	3122	3224	3311	3549	3682	3496	3778	3446	3448	3568	3642	3884	3586	2764	2568	2635	2402	2299	2145	2080	2225	2375	2471	2334	2255	2124	1894	1772	1771	1756	2093	2180	2691	2684	2502	1743	1655	1801	1988	2073	2249	2088	2327	2371		