

Daily System Generation Summary on Thursday

Thursday, July 02, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,347 MW
Distillate	0 MW
Total TNB	2,347 MW
Total IPP	16,565 MW
Total Co-Gen	0 MW
Total System	21,735 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,276	3.86 %
Gas	40,318	10.91 %
Total TNB	54,594	14.77 %
ST-Coal	222,269	60.14 %
LSS	1,870	0.51 %
Gas	91,905	24.87 %
Total IPP	316,044	85.51 %
Co-Gen	310	0.08 %
Total Co-Gen	310	0.08 %
Total Generation	370,948	100.36 %
PLTG	617	0.17 %
HVDC	720	0.19 %
Interconnection	1,337	0.36 %
Net Energy	369,611	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	19,399 MW
TNB Generation	2,975 MW
IPP Generation	14,468 MW
Spinning Reserve	1,925 MW
Maximum Demand	17,404 MW
Net Energy	369,611 MWH
Load Factor	88.49 %

Fuel Cost

Total Cost:	57,827,270.16 RM
Cost per Unit	15.59 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	645
Hydro	244
Syncon	923
Thermal	164
Total	1,976

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	204
Total TNB	253
CBPS	55
KLPP	93
NPRI	156
PGLA	59
PLPS	64
SGB3	55
SGRI	55
SKSP	49
YPKA	26
Total IPP	612
Total Gas	865
Total Gas Required	865

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	15044	14487	13998	13540	13189	12953	13038	13032	13526	15263	16077	16588	16586	16375	16964	17314	17364	17083	15822	15461	16660	16670	16241	16078

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, August 04, 2020 1:08:47 PM

(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	693	693	692	692	692	693	692	693	692	691	692	692	700	700	700	700	700	700	700	700	700	700	694	
JMAH	U002	694	695	695	695	693	695	694	693	696	694	694	695	695	693	695	695	700	700	700	700	700	700	700	700	696	
JMHE	U001	982	983	978	981	984	901	771	781	779	780	779	780	778	780	780	780	980	980	978	978	980	976	982	985	979	
JMHE	U002	982	981	980	981	983	906	781	781	781	778	779	781	780	780	784	780	980	980	978	978	980	979	979	983	977	
JMIG	U001	671	596	601	591	594	599	594	684	671	673	673	673	672	673	674	676	673	672	673	668	675	672	667	671	671	
JMIG	U002	672	676	672	673	672	673	671	677	673	671	674	673	682	672	674	674	673	674	673	667	677	677	673	674	672	
JMIG	U003	662	665	666	666	654	669	671	668	667	673	670	670	661	668	668	652	664	668	667	678	667	668	667	667	668	
PKLG	U003	281	280	283	283	282	282	283	278	280	280	281	281	280	281	280	280	279	279	283	279	281	283	281	281	280	
PKLG	U004	281	280	280	281	284	282	283	277	280	280	278	281	278	279	280	279	277	277	284	284	282	281	279	277	279	
PKLG	U005	468	468	466	466	467	468	465	466	467	468	466	468	468	468	468	468	466	466	466	466	466	467	466	466	467	
TBIN	U001	690	691	690	690	690	689	691	691	688	692	690	689	692	689	689	692	689	692	687	690	690	688	691	689	690	
TBIN	U002	693	688	690	694	691	692	692	692	691	692	692	693	693	692	691	693	693	693	691	691	690	691	691	691	695	
TBIN	U003	692	692	691	694	691	689	690	691	691	692	693	691	690	692	693	691	690	690	694	689	691	692	699	687	693	
TBIN	U004	982	982	983	981	983	962	873	785	783	783	783	783	783	783	800	888	976	984	982	982	982	982	982	982	982	
Total ST-Coal		9442	9370	9368	9369	9360	9199	8851	8855	8840	8849	8846	8850	8844	8841	8851	8832	8836	8984	9369	9447	9465	9461	9450	9453	9448	
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	361	361	353	357	358	358	357	361	359	361	357	359	356	365	358	358	365	358	361	361	362	362	361	361	361	361
GLGR	GT01	68	69	68	68	69	70	69	68	68	68	68	70	68	67	68	69	67	67	68	68	69	89	88	88	66	
GLGR	GT02	69	70	69	69	69	69	69	68	69	69	68	69	69	69	68	69	69	69	68	87	85	101	101	101	87	
GLGR	ST1C	70	70	70	70	70	70	69	70	70	70	70	70	70	69	70	70	69	70	71	82	82	82	71	79	80	
KLPP	GT13	138	138	137	72	72	72	71	71	71	71	72	71	71	71	73	110	133	135	135	133	141	141	140	141	140	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	97	151	157	158	159	159	160		
KLPP	GT15	158	155	156	103	81	86	84	80	81	84	84	84	84	84	84	82	88	117	146	154	151	151	154	158		
KLPP	ST17	131	131	130	103	83	87	86	86	86	91	87	87	87	83	87	86	117	129	129	121	184	200	203	206		
NPRI	BLK1	518	518	514	509	523	518	518	519	516	513	424	351	424	501	361	460	529	513	521	520	518	522	518	520	519	
NPRI	BLK2	517	516	509	508	523	514	517	516	513	491	496	500	371	379	374	316	320	516	524	523	526	524	522	523	523	
PCGP	PGRG	181	182	181	181	182	181	181	182	182	183	181	182	401	399	401	469	594	603	602	602	603	603	602	604	531	
PGLA	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	
PGLA	GT12	230	230	230	230	230	161	161	161	161	161	161	161	161	161	161	161	254	255	253	253	230	230	230	230	230	
PGLA	ST10	113	113	110	110	103	89	89	89	89	89	89	89	89	89	89	89	110	112	112	113	113	113	114	113	113	
PLPS	GT11	118	114	111	62	65	66	65	65	62	65	65	66	62	65	63	65	65	115	127	135	140	140	134	129	127	
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	115	113	108	64	64	63	63	64	62	64	65	63	61	64	64	63	64	110	123	130	136	137	130	127	123	
PLPS	ST18	139	132	132	92	87	90	88	90	90	91	91	88	90	91	90	91	130	138	141	145	146	140	141	141	140	
SGB3	GT31	66	66	66	66	66	65	65	66	66	65	65	65	65	65	65	65	107	110	120	132	135	125	124	112	106	
SGB3	GT32	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	115	119	128	140	144	132	132	119	116	116	
SGB3	ST34	103	101	101	100	100	99	99	100	100	101	101	101	101	101	101	101	128	135	144	148	152	143	147	143	135	
SGRI	GT21	0	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	GT22	0	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	GT23	0	0	0	0	0	0	0	0	18	57	37	33	33	33	54	85	140	126	126	126	123	130	127	130	130	
SGRI	ST24	0	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	257	222	216	219	219	236	281	217	244	222	216	218	217	219	219	219	237	217	228	303	340	346	307	311	288	
SPGP	BLK1	145	12	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	170	172	186	
TJGS	GT1A	208	148	142	144	148	184	211	178	191	147	144	143	144	142	145	144	191	136	187	230	232	234	227	222	223	
TJGS	GT1B	201	139	130	132	138	171	199	168	182	138	136	131	131	134	136	131	188	125	179	211	220	217	215	212	207	
TJGS	ST1C	229	205	181	178	174	187	232	208	231	187	178	178	178	178	178	178	194	194	201	243	247	254	247	247	247	

Daily MW Generation on Thursday

[illegible]

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			
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	7	13	18	20	22	8	17	21	20	27	23	20	21	24	21	18	13	10	7	4	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	3	7	13	19	24	30	29	13	25	36	23	41	14	39	13	43	36	13	4	27	9	2	0	0	0	0	0	0	0	0	0	0	0	0
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	15	24	24	36	31	20	49	49	43	49	50	34	35	22	27	25	29	20	9	7	2	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	2	9	19	21	25	28	29	25	22	38	44	41	40	36	38	32	35	8	8	22	11	3	1	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	1	3	6	9	12	15	22	34	45	31	33	18	34	26	29	28	19	39	28	16	16	8	4	1	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	3	7	21	18	33	1	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
SLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	7	11	15	18	24	30	29	32	34	33	34	28	30	33	14	8	14	20	12	5	3	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	2	23	58	105	140	187	194	207	198	229	264	227	267	242	242	224	215	204	141	120	142	73	33	9	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	5	4	3	5	3	5	4	3	3	4	2	6	3	4	4	3	3	3	4	4	3	29	28	30	29	4	4	6	4	4	4	4	30	29	29	4	3	4	4	3	4	3	4	3	4	3	2	3	3	
PCUF	CUFK	5	4	3	3	2	5	5	4	3	3	3	6	4	5	5	3	2	5	4	4	3	4	3	4	4	3	4	19	29	34	3	2	2	2	2	4	3	3	3	4	4	5	16	15	3	3	3	4	3	
Total Co-Gen		10	8	6	8	5	10	9	7	6	7	5	12	7	9	9	6	5	8	8	8	6	33	31	34	33	7	8	25	33	38	7	6	32	31	33	7	6	7	8	7	9	19	18	7	6	5	7	6		
Total Gen		15072	14597	14513	14215	14007	13721	13531	13363	13240	13125	12996	12930	13090	13175	13074	13082	13570	14634	15336	15753	16144	16475	16654	16758	16634	16436	16431	16710	17029	17389	17365	17424	17445	17474	17191	16506	15891	15539	15535	16155	16714	16684	16737	16536	16322	16301	16166	15899		
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	0	
TIE-HVDC		31	31	31	31	31	29	29	29	31	29	31	29	31	29	30	30	31	31	30	30	31	29	29	31	31	31	31	31	29	30	31	31	29	30	29	29	31	29	29	31	29	30	30	30	29	29	29			
TIE-PLTG		4	-36	2	9	-15	-22	-31	-4	27	28	19	-48	28	50	20	20	20	20	50	-6	45	3	44	8	24	32	32	12	41	78	29	29	56	45	86	29	47	36	50	-17	33	14	46	50	58	48	66	76		
Interconnection		35	-5	33	40	16	7	-2	25	58	56	50	-19	59	79	49	51	51	50	80	25	74	32	73	39	55	63	63	40	72	109	58	59	88	77	115	59	76	65	81	12	61	44	74	80	88	78	95	105		
System Total		15044	14609	14487	14182	13998	13721	13540	13345	13189	13076	12953	12956	13038	13103	13032	13038	13526	14591	15263	15735	16077	16450	16588	16726	16586	16380	16375	16677	16964	17287	17314	17372	17364	17404	17083	16454	15822	15481	15461	16150	16660	16647	16670	16463	16241	16230	16078	15801		
SRev ST-Coal		163	210	217	206	218	384	452	395	408	397	400	400	401	405	399	416	405	404	223	158	140	144	155	152	157	156	163	160	170	167	163	164	158	156	157	144	203	205	194	199	205	188	164	151	157	161	172	195		
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		1570	1900	1979	1757	1771	1758	1620	1768	2007	2134	2257	2335	2185	2081	2213	2142	1795	1192	925	653	461	844	655	334	380	592	537	504	646	439	346	304	604	487	745	1312	1453	1558	1550	1072	917	841	853	940	892	857	900	1004		
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	
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	
SRev Co-Gen		62	64	66	64	67	62	63	65	66	65	67	60	65	63	63	66	67	64	64	64	66	39	41	38	39	65	64	47	39	34	65	66	40	41	39	65	66	65	64	65	63	53	54	65	66	67	65	66		
Syncon		1216	1216	1216	1216	1166	1418	1267	1418	1418	1418	1418	1267	1418	1418	1418	1317	1216	1216	977	1128	977	977	851	977	889	1040	763	1002	827	953	953	953	1040	889	1040	1127	1127	1127	1127	676	827	676	827	827	827	827	1040			
Hydro		89	80	81	94	326	117	247	118	126	124	125	124	254	121	250	143	127	93	90	210	76	196	206	236	213	297	163	314	185	265	261	263	263	202	398	227	149	142	142	165	322	254	403	304	299	244	227	103		
S.Reserve Total		3100	3470	3559	3337	3548	3739	3649	3764	4025	4138	4267	4337	4172	4088	4343	4185	3711	2969	2518	2062	1871	2200	2034	1611	1766	1999	1967	1788	2042	1732	1788	1750	2018	1926	2228	2788	2998	3097	3077	2628	2183	2163	2150	2287	2241	2156	2191	2408		