

Daily System Generation Summary on Thursday

Thursday, March 26, 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	18,241 MW
Total Co-Gen	0 MW
Total System	23,122 MW

Generation Mix

Type	MWh	Percentage
Hydro	7,432	2.71 %
Gas	18,048	6.57 %
Total TNB	25,480	9.28 %
ST-Coal	185,123	67.41 %
LSS	2,605	0.95 %
Gas	61,927	22.55 %
Total IPP	249,655	90.91 %
Co-Gen	254	0.09 %
Total Co-Gen	254	0.09 %
Total Generation	275,389	100.28 %
PLTG	52	0.02 %
HVDC	729	0.27 %
Interconnection	781	0.28 %
Net Energy	274,608	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:	21:00:00 Hour
Total Set On Bus	15,092 MW
TNB Generation	1,729 MW
IPP Generation	11,405 MW
Spinning Reserve	1,949 MW
Maximum Demand	13,095 MW
Net Energy	274,608 MWH
Load Factor	87.38 %

Fuel Cost

Total Cost:	43,358,620.43 RM
Cost per Unit	15.75 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	173
Hydro	300
Syncon	1,017
Thermal	944
Total	2,434

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	98
Total TNB	128
CBPS	54
NPRI	152
PLPS	59
YPKA	56
Total IPP	321
Total Gas	449
Total Gas Required	449

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	12360	11778	11258	10776	10417	10170	10025	9979	9709	10225	10656	10992	11262	11430	11810	12152	12141	11918	11595	11683	13010	13095	13003	12931

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, April 02, 2020 11:27:44 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	571	550	534	502	480	452	451	400	377	353	299	300	301	301	301	301	301	301	301	301	301	301	301	301	301																									
JMAH	U002	571	553	526	504	473	453	452	398	374	353	300	301	302	301	301	302	301	297	303	354	353	354	353	353	351	355	403	431	454	532	554	555	554	553	553	481	484	439	443	502	581	607	603	603	603	603	603	601		
JMHE	U001	780	781	781	787	779	783	780	780	780	779	781	780	781	780	783	781	779	780	780	782	782	779	780	780	783	780	776	781	777	780	780	780	779	779	778	781	779	780	823	819	819	819	819	820	818	821	817			
JMHE	U002	780	780	780	779	780	782	779	777	780	779	782	782	781	781	780	782	779	779	780	780	780	780	781	780	775	780	778	783	779	780	780	780	779	779	777	779	825	820	818	818	818	819	819	820	818	820	818			
JMJG	U002	449	452	448	447	450	436	416	420	420	421	419	418	420	422	405	408	409	410	409	409	411	408	408	409	425	506	500	507	509	511	544	544	551	548	553	548	548	545	578	641	674	679	675	679	677	678	675	678		
JMJG	U003	517	515	514	514	510	424	410	405	408	408	404	406	406	406	405	407	405	407	405	405	403	407	407	405	405	404	404	414	446	483	545	540	548	541	545	539	545	545	561	608	593	601	595	585	604	596	651	683		
JMJG	U004	782	782	782	785	785	785	785	783	785	785	783	785	785	785	785	785	783	785	785	783	783	785	785	783	785	786	783	786	785	785	785	783	785	785	785	785	783	785	829	829	827	827	826	826	827	827	823			
JMJG	U005	778	780	779	781	781	779	778	777	783	777	783	782	783	780	780	782	781	781	779	779	781	779	782	779	781	779	777	782	786	777	414	395	396	395	401	401	400	381	380	380	380	381	0	0	0	0	0	0	0	
PKLG	U003	203	163	143	145	146	147	145	146	147	147	146	146	146	147	146	146	146	146	146	146	146	146	145	145	146	145	145	146	147	145	147	146	169	208	208	208	206	147	186	272	280	282	280	281	285	281	283	282		
PKLG	U004	202	164	148	145	143	150	145	144	147	150	145	149	146	147	147	147	147	148	155	146	146	146	146	145	149	144	145	148	147	143	146	149	167	208	219	204	205	139	185	246	281	281	280	279	280	279	274	280		
PKLG	U006	445	450	449	411	383	347	274	270	265	269	271	265	272	269	269	271	268	267	269	267	267	269	267	267	269	300	382	433	447	450	447	447	449	449	445	449	449	449	451	445	448	451	449	449	449	449	447	449	448	
TBIN	U001	571	568	551	504	502	492	451	450	401	348	352	351	351	353	307	313	302	301	303	351	351	352	351	351	352	351	401	439	451	508	548	550	551	550	550	481	482	435	442	498	580	603	600	600	600	601	600			
TBIN	U002	573	574	551	506	503	490	453	453	405	358	357	358	358	357	312	305	303	302	303	353	352	353	335	355	353	353	404	445	453	524	554	553	551	552	552	481	483	444	443	505	581	602	604	603	604	603	601	603		
TBIN	U003	574	575	553	519	502	486	454	453	403	352	354	366	354	354	299	302	303	300	302	349	351	351	352	350	351	352	404	442	450	492	550	550	551	551	550	477	482	455	441	507	583	605	603	603	604	604	603	604		
TBIN	U004	782	783	783	782	782	783	782	783	783	782	783	782	783	782	783	782	783	782	783	783	783	783	783	783	783	783	783	783	783	783	782	782	783	782	783	782	783	783	824	823	823	822	823	824	820	821				
Total ST-Coal		8578	8470	8322	8111	7999	7789	7555	7439	7258	7061	6957	6973	6965	6965	6805	6813	6793	6793	6794	7043	7037	7044	7022	7041	7088	7252	7554	7748	7866	7823	8079	8110	8163	8234	8260	7872	7876	7543	7673	8410	8857	8601	8576	8569	8596	8582	8630	8661		
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	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	0	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	353	352	352	354	354	353	353	351	351	351	347	360	360	360	357	360	362	360	362	362	362	360	362	353	349	349	360	353	355	355	350	350	350	350	354	353	363	353	368	359	362	362	362	362	362	362	358			
GLGR	GT02	109	108	109	109	109	109	109	109	109	109	108	109	108	108	96	96	96	95	95	96	108	109	108	109	108	107	108	109	108	108	108	108	108	109	109	108	108	109	109	108	109	109	109	109	109	109	109			
GLGR	ST1C	46	46	46	46	46	46	46	46	46	46	46	46	46	38	38	38	39	38	38	46	47	47	47	47	46	46	47	47	47	47	47	47	47	47	47	47	46	46	46	46	46	46	46	46	46					
NPRI	BLK1	512	511	511	515	514	512	513	508	511	511	512	506	497	512	524	502	512	526	329	525	524	525	524	524	512	509	511	522	514	515	524	509	508	515	505	526	517	527	523	523	524	524	524	525	524	520				
NPRI	BLK2	497	497	497	502	500	499	500	494	496	498	499	493	503	508	508	505	511	513	511	511	512	497	509	511	511	512	499	495	498	507	500	499	509	495	496	502	494	514	502	524	512	512	512	511	512	512	512	507		
PCGP	PGRG	575	574	575	582	579	578	580	569	571	574	577	564	587	594	595	392	392	392	604	601	602	602	602	602	602	385	570	576	595	579	578	601	569	570	583	567	605	584	631	601	601	603	602	602	602	602	593			
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	76	137	137	138	134	133	133	138	134	136	139	134	133	134	134	139	135	143	145	145	146	145	146	145	145	142			
PLPS	GT13	144	145	145	144	144	144	144	144	144	145	145	145	145	145	145	124	124	125	125	124	132	140	139	142	141	140	136	135	136	140	135	137	140	135	135	137	135	140	136	143	147	146	147	148	147	147	147	143		
PLPS	ST18	60	61	60	60	60	60	60	60	60	60	60	60	60	60	59	59	59	59	59	59	60	116	144	143	142	141	141	142	139	141	141	139	139	139	139	141	140	143	144	144	143	144	143	144	143	144				
TJGS	GT1A	186	198	199	204	200	188	191	176	173	189	190	171	127	125	156	154	165	233	200	171	202	199	200	206	226	202	221	188	208	227	229	207	224	191	211	147	230	226	166	196	186	214	228	194	222	209	197			
TJGS	GT1B	184	190	188	199	198	186	184	167	169	185	184	163	117	119	152	146	162	223	194	161	193	197	196	196	216	194	214	181	207	222	199	218	186	207	136	216	192	213	217	161	188	181	207	216	192	216	204	192		
TJGS	ST1C	217	210	209	204	213	208	214	205	198	212	211	198	163	163	173	175	189	242	212	189	222	222	222	210	246	238	243	244	237	251	242	249	244	242	192	233	237	221	250	180	198	206	231	215	242	238	231	222		
YPKA	GT11	137	131	133	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	132	131	131	132	133	131	131	132	131	133	130	131	131	131	132	131	132	132	132	132	134	133	133	13					

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
PGAU	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
PGAU	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
PGAU	HY03		-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		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	HY01		51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02		50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01		25	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		25	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		25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04		25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01		59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	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
TMGR	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
TMGR	HY04		58	27	27	29	28	28	28	27	27	28	28	26	30	31	31	29	31	31	31	28	27	28	29	31
UJLI	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
UJLI	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
UPIA	HY02		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro			501	271	170	172	170	170	169	168	167	168	169	166	171	172	194	166	149	177	153	152	152	146	150	150
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
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
GELS	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
JSLs	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	5	35	87	160	208	282	321	337	385	390
PCUF	CUFG		6	5	6	6	5	6	5	6	5	6	6	6	6	5	6	6	5	6	4	5	6	4	5	5
PCUF	CUFK		5	4	5	6	4	5	4	5	5	6	6	7	5	5	6	4	5	5	6	4	6	6	5	5
Total Co-Gen			11	9	11	12	9	11	9	11	10	12	11	11	11	10	10	11	9	11	9	11	8	10	10	12
Total Gen			12375	12030	11785	11513	11286	11044	10817	10636	10453	10311	10211	10139	10054	10080	10029	9645	9697	9979	10231	10440	10668	10864	11009	11159
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	31	31	31	31	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG			-12	-1	-19	-24	2	11	14	2	10	6	15	28	1	10	22	13	-38	-55	-21	-40	-14	-18	-10	-39
Interconnection			18	29	11	6	32	41	45	33	40	36	45	58	32	41	53	44	-8	-24	10	-10	16	12	21	-8
System Total			12360	12004	11778	11511	11258	11007	10776	10607	10417	10279	10170	10084	10025	10042	9979	9605	9709	10007	10225	10454	10656	10856	10992	11171
SRev ST-Coal			1029	1025	1024	1063	1078	1077	1075	1077	1077	1074	1079	1076	1077	1078	1074	1077	1077	1076	1080	1077	1040	1028	1024	1043
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			227	232	230	294	209	243	233	299	299	247	243	328	410	384	297	667	609	408	204	291	262	246	101	156
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	11	9	8	11	9	11	9	10	8	9	9	9	10	10	9	8	7	9	9	8	11	9	11
Syncon			1155	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242
Hydro			136	131	131	129	131	131	132	133	134	133	132	136	131	130	259	286	152	275	148	149	149	155	151	151

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	
S.Reserve Total		2556	2641	2636	2736	2671	2702	2693	2760	2762	2704	2705	2791	2869	2844	2730	3132	3088	2857	2680	2769	2735	2731	2580	2634	2555	2608	2770	2656	2596	2375	2414	2417	2541	2548	2723	2524	2646	2388	2315	2184	2173	1971	1949	2013	2045	2015	2113	2157