

Daily System Generation Summary on Thursday

Thursday, May 6, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	14,709 MW
Total Co-Gen	0 MW
Total System	21,060 MW

Generation Mix

Type	MWh	Percentage
Hydro	25,876	7.01 %
Gas	69,240	18.75 %
Total TNB	95,116	25.75 %
ST-Coal	186,331	50.45 %
LSS	2,385	0.65 %
Gas	81,264	22.00 %
Total IPP	269,980	73.10 %
Co-Gen	159	0.04 %
Total Co-Gen	159	0.04 %
Total Generation	365,255	98.90 %
PLTG	-958	-0.26 %
HVDC	-3,123	-0.85 %
Interconnection	-4,081	-1.10 %
Net Energy	369,336	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:	15:00:00 Hour
Total Set On Bus	18,307 MW
TNB Generation	4,542 MW
IPP Generation	12,346 MW
Spinning Reserve	1,413 MW
Maximum Demand	17,311 MW
Net Energy	369,336 MWH
Load Factor	88.90 %

Fuel Cost

Total Cost:	55,476,502.45 RM
Cost per Unit	15.19 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	870
Hydro	313
Syncon	319
Thermal	150
Total	1,652

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	211
Total TNB	259
CBPS	54
KLPP	65
NPRI	159
PLPS	80
SGB3	56
SKSP	52
YPKA	73
Total IPP	539
Total Gas	799
Total Gas Required	799

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	14924	14269	13850	13403	13264	13353	13368	13353	13796	15381	16160	16701	16644	16495	17083	17311	17055	16423	15983	15986	16418	16469	16116	15688

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 4, 2021 9:45:41 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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																								
JMAH	U001		693	695	696	691	693	692	694	688	693	691	693	692	693	695	691	691	693	690	695	692	690	692	690	692	693	692	692	693	692	692	693	698																
JMAH	U002		696	699	508	211	216	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																
JMHE	U001		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43																	
JMHE	U002		974	983	980	978	980	878	847	851	851	848	850	853	850	853	849	849	847	974	985	983	980	976	981	978	976	978	978	982	979	980	980	978	988															
JMJG	U001		671	671	668	675	667	673	672	675	672	668	673	669	666	666	672	671	673	666	664	666	673	666	665	666	668	666	666	666	667	667	668	670	668															
JMJG	U002		690	681	656	648	651	651	658	667	661	672	672	686	669	679	696	711	677	666	678	667	673	682	683	683	666	665	667	678	679	691	677	671	669															
JMJG	U003		530	666	677	682	682	677	667	668	679	668	673	672	672	672	669	663	672	672	675	673	666	671	671	668	673	668	675	667	669	671	669	671	669															
JMJG	U005		336	333	329	320	296	294	310	297	242	151	123	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0															
PKLG	U003		273	274	277	275	275	277	278	275	275	274	272	274	276	276	276	276	277	277	275	277	278	277	278	278	276	276	276	276	277	278	278	277	276	277														
PKLG	U004		275	276	277	277	276	272	267	274	272	274	272	273	277	278	277	278	277	278	276	277	278	277	278	276	276	276	276	277	276	276	276	277	277															
PKLG	U006		450	445	449	449	447	446	447	447	449	447	451	450	448	448	452	450	448	450	449	449	447	446	445	440	449	446	445	452	446	450	448	450	449															
TBIN	U001		690	691	689	687	690	690	691	690	689	690	691	684	691	692	690	689	686	689	690	690	690	690	690	690	690	690	690	690	690	690	690	690	694															
TBIN	U002		691	693	692	690	690	692	691	692	690	690	691	692	692	692	693	692	692	691	693	691	690	689	691	692	690	690	692	691	691	691	691	691	696															
TBIN	U003		691	690	689	689	688	690	691	690	689	691	691	687	686	689	690	691	689	689	690	690	689	688	689	692	691	691	691	691	691	691	691	691	693															
TBIN	U004		983	982	984	983	983	927	852	854	852	853	855	854	853	854	853	854	890	979	983	983	983	982	983	982	982	982	982	983	983	982	983	982	983															
Total ST-Coal			8643	8779	8571	8255	8234	7989	7765	7768	7714	7617	7611	7606	7473	7493	7507	7516	7482	7630	7752	7737	7732	7739	7741	7742	7730	7714	7725	7734	7745	7747	7741	7734	7732	7743	7725	7751	7752	7757	7737	7737	7748	7732	7734	7703	7631	7569	7517	7134
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	
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
CBPS	BLK2		357	355	362	363	357	363	360	360	365	362	364	363	364	357	363	365	351	365	360	350	362	362	365	364	357	365	365	358	358	352	366	362	359	362	359	366	366	361	352	353	353	345	362					
GLGR	GT01		104	96	67	67	67	67	69	68	68	67	67	67	69	69	69	68	66	69	69	97	100	100	100	99	100	100	69	68	67	85	85	85	101	80	67	67	68	68	69	68	69	67	67	68	68	68	70	
GLGR	GT02		104	94	68	67	68	68	68	68	68	68	68	68	68	68	68	68	96	100	101	100	101	100	101	67	67	66	86	85	85	101	80	68	67	67	68	68	67	68	68	68	68	68	68	68	68	68		
GLGR	ST1C		93	91	73	72	72	72	72	72	72	72	72	72	72	72	72	85	91	91	91	91	91	91	78	73	73	83	83	91	84	72	73	72	73	72	72	72	72	72	72	72	72	72	72	72	72			
KLPP	GT13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	150	150	150	151	113	113	153	153	154	152	154	154	153	154	116	112	112	113	156	155	156	156	156	112	102	114		
KLPP	GT15		0	0	0	0	0	0	0	0	0	0	24	24	24	24	25	30	33	48	87	148	148	148	148	148	142	110	145	145	144	144	144	144	144	144	110	110	110	110	146	146	146	146	146	146	105	105	105	
KLPP	ST17		0	0	0	0	0	0	0	0	0	0	0	0	18	18	24	28	42	69	65	59	146	136	128	136	189	190	206	206	206	206	205	206	206	206	190	188	189	189	207	206	206	207	206	206	182	171	177	
NPRI	BLK1		506	511	515	517	510	517	512	515	516	518	517	515	514	515	520	417	515	515	511	517	515	501	514	510	493	515	515	520	514	505	515	516	507	512	495	517	515	515	515	509	521	518	504	504	495	503	493	515
NPRI	BLK2		511	513	520	520	514	521	516	519	518	520	520	519	519	518	522	521	524	518	497	529	528	496	528	521	476	526	527	515	515	505	518	518	509	516	501	520	518	519	518	512	524	520	507	505	496	506	497	520
PCGP	PGRG		261	259	260	259	262	261	260	263	260	263	261	262	261	260	260	262	263	261	261	298	300	300	301	308	302	301	308	302	302	299	301	303	301	302	301	302	301	302	261	260	306	303	300	303	300	302		
PLPS	GT11		143	144	128	128	129	129	128	129	128	129	129	129	129	129	128	129	124	127	126	126	126	127	134	133	130	116	114	116	116	130	134	134	130	115	110	117	115	116	115	112	119	115	111	110	109	111	110	116
PLPS	GT12		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	148	147	149	146	139	136	134	119	119	118	134	138	138	136	120	115	69	69	67	67	116	123	120	116	114	113	114	112	118		
PLPS	GT13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	90	138	131	128	126	112	112	112	126	130	131	128	112	106	112	112	111	112	108	114	112	107	107	105	107	106	110		
PLPS	ST18		58	58	57	57	57	57	57	57	57	57	57	57	55	57	58	58	57	58	142	142	182	212	212	209	209	199	199	200	196	208	209	210	209	196	194	181	180	178	177	193	195	196	196	194	193	193	194	192
SGB3	GT31		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	137	136	133	108	109	109	110	108	108	108	111	104	107	102	109	108	109	109	109	109	102	106	106	103	99	100	103		
SGB3	GT32		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	96	105	111	115	113	111	108	112	114	111	112	108	72	73	73	109	112	109	109	106	109	106	109	105	113		
SGB3	GT33		0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	67	68	108	104	108	111	106	110	108	103	109	112	112	111	106	110	112	107	110	106	72	71	71	71	107	111	110	107	104	105	0	0	0
SGB3	ST34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	34	54	55	55	59	140	136	156	194	194	198	198	194	194	194	198	194	194	169	167	165	166	189	197	197	193	193	192	156	129	131	
SKSP																																																		

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	
YPKA	GT12	127	127	128	128	127	129	128	128	67	106	106	106	106	68	69	67	68	68	75	76	135	137	133	133	132	68	68	69	131	132	130	130	131	131	78	68	68	67	67	105	107	134	137	134	134	136	133	137
YPKA	ST10	55	54	55	55	55	55	55	55	33	45	49	49	49	35	33	32	33	30	97	104	122	122	122	123	81	81	81	123	123	123	122	121	121	101	83	82	82	82	107	105	123	122	120	119	121	119	119	
YPKA	GT21	123	123	125	125	124	125	124	125	67	100	100	102	102	67	68	67	67	67	67	124	125	121	124	123	92	67	67	69	122	120	122	122	120	122	66	67	67	67	67	69	68	113	112	110	112	110	65	
YPKA	ST20	60	59	60	60	60	60	60	60	39	49	49	49	50	39	38	38	38	38	38	59	60	59	60	60	53	39	39	40	59	58	60	60	60	60	41	40	40	39	39	39	39	40	54	56	55	56	55	39
Total CCGT-Gas		5521	5326	5230	5300	5250	5172	5325	5268	5150	5327	5391	5343	5373	5154	4795	4323	4880	5509	5944	6299	6669	6942	7049	7188	7036	7059	6939	7104	7311	7349	7410	7429	7412	7267	6891	6376	6148	6089	6253	6958	7114	7174	7235	7208	7036	6917	6787	6791
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	21	21	21	21	21	21	21	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20		
BSIA	HY02	23	24	24	23	24	23	23	23	23	24	23	24	23	23	24	23	23	23	23	23	23	23	23	23	23	23	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
BSIA	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	23	23	22	22	23	22	23	23	22	22	23	23	22	22	22	22	23	23	23	23	22	23	23	22	22	22	22	22	22	22
CEND	HY01	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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
CEND	HY02	10	9	10	9	10	10	9	9	10	9	10	9	9	9	9	9	10	10	9	9	10	10	9	9	9	9	9																					

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									
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	13	19	19	18	18	33	16	10	20	22	20	23	16	18	12	19	24	12	7	5	2	1	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	1	2	5	6	11	15	27	19	24	41	40	40	38	41	42	28	4	4	4	4	4	4	4	2	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	2	3	5	10	25	19	10	11	8	18	19	29	27	19	18	14	6	13	8	2	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	2	4	6	6	14	14	32	33	39	37	41	23	37	39	47	20	2	1	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	6	7	23	14	16	12	14	13	13	21	24	16	28	33	30	15	12	8	14	7	3	1	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	1	2	6	7	14	25	29	23	38	31	39	9	7	18	22	5	6	5	4	3	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0				
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	8	11	15	25	30	30	29	30	3	6	6	9	6	6	4	4	6	4	2	1	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	2	5	5	7	11	12	30	11	27	35	39	50	45	48	45	37	39	33	26	19	8	2	2	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	2	9	8	20	31	27	32	28	21	17	19	34	29	33	37	31	23	17	19	6	11	7	3	1	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	1	2	3	14	13	18	21	29	30	42	39	21	5	12	3	3	7	3	3	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	17	25	20	20	22	25	28	30	30	30	30	30	24	30	28	22	18	12	7	2	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	11	50	88	152	199	233	321	332	318	351	386	359	293	337	355	246	203	165	144	107	70	38	17	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	3	3	4	2	2	4	2	4	3	4	2	4	3	4	4	3	2	3	4	4	4	2	4	5	5	3	4	3	3	3	4	4	4	4	3	3	4	4	4	4	4	4	4	3	4	4	4	4	2	4	4					
PCUF	CUFK	3	3	4	3	4	4	1	4	2	4	1	2	3	3	4	3	2	4	5	5	4	2	4	2	3	2	2	4	5	3	2	3	3	3	3	2	2	3	3	6	4	3	4	3	3	4	3	3	4	4	2	2				
Total Co-Gen		6	6	8	5	6	8	3	8	5	8	3	6	6	7	8	6	4	7	9	9	8	4	8	7	8	5	6	7	8	6	6	7	7	6	7	5	5	7	7	10	8	7	7	7	7	7	8	6	6	6	6	6				
Total Gen		14958	14515	14239	13953	13836	13533	13396	13357	13224	13306	13352	13261	13355	13371	13242	12923	13498	14383	15047	15481	15836	16183	16413	16538	16355	16210	16093	16399	16679	16890	16894	16768	16754	16596	16145	15697	15614	15515	15671	16121	16359	16495	16479	16412	16134	15950	15727	15244	15244	15244						
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	0	0					
TIE-HVDC		30	31	31	30	30	31	30	30	30	30	29	30	30	30	30	-291	-292	-291	-291	-290	-291	-289	-291	-291	-292	-291	-292	-289	-290	-291	-290	-290	-289	-289	-290	-289	-290	-289	-290	31	29	29	31	31	30	30	30	30	30							
TIE-PLTG		13	-23	-51	-43	-35	-18	-27	-33	-59	-48	-19	-1	-32	-36	-130	-66	5	-22	-33	-120	-24	37	15	-13	13	-60	-101	-116	-104	-61	-116	-94	-1	11	24	-21	-69	-64	-15	-28	-78	-65	-11	-25	-3	-44	21	-145	-145							
Interconnection		44	7	-20	-13	-4	13	3	-3	-30	-18	10	29	-2	-5	-100	-357	-287	-313	-324	-410	-314	-252	-277	-304	-278	-352	-392	-407	-394	-351	-407	-384	-291	-278	-268	-310	-359	-353	-305	2	-49	-36	20	6	28	-13	50	-115	-115							
System Total		14924	14518	14269	13976	13850	13530	13403	13370	13264	13335	13353	13243	13368	13387	13353	13291	13796	14706	15381	15901	16160	16446	16701	16853	16644	16572	16495	16816	17083	17251	17311	17162	17055	16884	16423	16017	15983	15878	15986	16129	16418	16541	16469	16416	16116	15974	15688	15370	15370							
SRev ST-Coal		193	172	180	196	217	440	375	378	431	375	384	332	341	325	306	297	331	271	159	174	179	142	140	139	151	167	156	147	136	134	140	147	149	138	156	130	129	124	144	144	133	149	147	178	160	132	134	97	97							
SRev CCGT-Gas		640	835	931	861	911	989	836	893	1011	834	937	985	955	1244	1732	2274	1717	1245	1065	712	819	743	936	797	1000	1049	1169	1004	797	759	698	679	696	841	1217	1732	1960	2019	1855	1150	994	934	873	900	1072	1048	1108	1104	1104							
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	0					
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	0					
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	0	0					
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Syncon		425	688	789	940	940	1027	1027	876	1027	1027	1027	1027	926	548	699	525	525	525	374	525	525	525	338	338	338	525	525	374	338	338	338	525	525	525	525	525	151	151	0	0	0	0	0	0	0	0	0	0	0	0	0					
Hydro		266	387	260	146	193	88	149	290	97	97	104	145	49	213	58	97	82	96	254	56	99	115	196	196	249	247	229	183	202	297	239	148	105	107	128	48	246	272	398	802	729	636	715	724	758	711	600	704	704							
S.Reserve Total		1524	2082	2160	2143	2261	2544	2387	2437	2566	2333	2452	2489	2271	2330	2795	3193	2655	2137	1852	1467	1622	1525	1610	1470	1738	1988	2079	1708	1473	1528	1415	1499	1475	1611	2026	2435	2486	2566	2397	2096	1856	1719	1735	1802	1990	1891	1842	1905	1905							