

Daily System Generation Summary on Thursday

Thursday, August 6, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,421 MW
Distillate	0 MW
Total TNB	2,421 MW
Total IPP	18,043 MW
Total Co-Gen	0 MW
Total System	23,287 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,542	5.96 %
Gas	33,190	8.78 %
Total TNB	55,732	14.74 %
ST-Coal	243,584	64.43 %
LSS	2,310	0.61 %
Gas	76,093	20.13 %
Total IPP	321,987	85.16 %
Co-Gen	173	0.05 %
Total Co-Gen	173	0.05 %
Total Generation	377,892	99.95 %
PLTG	512	0.14 %
HVDC	-695	-0.18 %
Interconnection	-183	-0.05 %
Net Energy	378,075	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	19,196 MW
TNB Generation	3,132 MW
IPP Generation	14,651 MW
Spinning Reserve	1,407 MW
Maximum Demand	17,836 MW
Net Energy	378,075 MWH
Load Factor	88.32 %

Fuel Cost

Total Cost:	55,508,390.36 RM
Cost per Unit	14.69 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	429
Hydro	391
Syncon	489
Thermal	193
Total	1,502

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmcsfd)
GLGR	48
TJGS	192
Total TNB	240
CBPS	48
KLPP	4
NPRI	141
PGLA	105
PLPS	73
SKSP	48
YPKA	35
Total IPP	454
Total Gas	694
Total Gas Required	694

Alternate Fuel Usage

Station	(mmcsfd)
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	15339	14637	14095	13643	13304	13134	13335	13235	13724	15467	16370	16912	16899	16694	17427	17836	17813	17454	16127	15962	17299	17309	16816	16583

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:28:14 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	691	690	692	692	693	693	694	692	606	604	604	603	692	691	695	692	693	698	692	691	693	692	692	691	692	691																							
JMAH	U002	696	694	694	693	691	695	694	693	694	603	602	603	601	687	694	695	694	693	696	689	692	696	696	697	696	695	691	692	698																				
JMHE	U001	975	976	978	981	979	885	765	777	785	782	781	783	780	780	778	783	779	783	987	981	985	981	982	980	978	980	978	982																					
JMHE	U002	975	978	981	980	976	882	782	779	784	781	780	782	782	782	776	784	779	782	982	981	982	980	982	979	978	980	980	981																					
JMJG	U001	674	673	675	671	672	673	671	674	671	670	665	672	670	669	672	671	674	672	675	674	673	672	674	666	673	668	673	669																					
JMJG	U002	680	676	675	679	678	677	677	681	677	672	688	678	679	677	688	670	688	667	671	674	679	669	667	678	668	676	667	676	672																				
JMJG	U003	662	666	667	664	666	663	664	668	665	666	666	664	671	662	667	664	667	662	666	666	666	662	666	659	666	667	665	661	668	664																			
JMJG	U004	977	892	856	862	862	816	794	792	785	787	786	785	785	785	785	782	830	918	979	978	977	977	977	976	976	975	977	978	976	976																			
JMJG	U005	669	672	669	672	668	672	672	672	675	675	672	673	669	672	672	672	670	670	681	703	730	730	734	720	672	677	676	677	673	675	677																		
PKLG	U003	285	280	281	281	279	279	278	281	279	285	282	280	281	278	277	278	281	279	282	270	276	278	278	279	279	279	276	281	280	282	280	279	278	277	280	280	278	280	280	278	279	280	281	279	279	280			
PKLG	U004	281	278	278	278	278	293	283	277	274	278	277	281	278	278	285	281	278	278	273	279	279	277	276	278	285	280	276	278	270	279	279	280	275	282	280	280	277	278	267	277	278	276	283	281	280	276	278	279	
PKLG	U005	250	257	275	269	323	371	405	448	471	464	466	465	465	464	463	464	467	463	462	466	463	463	464	464	464	465	463	466	466	466	463	464	464	464	466	464	464	462	466	466	467	465	464	464	459	463	464	465	
TBIN	U001	688	688	689	690	687	691	687	692	690	689	689	689	689	691	690	692	691	691	692	692	691	694	689	690	690	687	688	690	684	688	688	687	689	689	686	688	687	687	687	689	686	688	687	686	688	688	688		
TBIN	U003	692	691	693	695	691	693	698	695	695	684	690	687	690	693	693	694	694	692	694	690	691	695	695	693	690	692	693	691	690	691	689	693	692	684	690	696	692	690	692	690	691	692	693	694	693	691	693	694	
TBIN	U004	979	983	979	983	982	959	871	782	781	783	783	784	783	781	782	783	832	926	980	982	982	984	982	983	982	983	981	982	982	982	1006	1004	979	982	981	983	981	983	982	983	982	983	981	982	984	982			
Total ST-Coal		10174	10094	10082	10090	10125	9942	9635	9603	9618	9425	9431	9430	9426	9591	9613	9610	9621	9689	10292	10383	10410	10418	10453	10439	10451	10436	10375	10394	10383	10393	10402	10426	10402	10395	10391	10397	10392	10392	10371	10392	10408	10398	10405	10416	10384	10396	10386	10396	
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	
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
CBPS	BLK2	356	349	209	219	208	215	224	217	217	224	224	223	224	224	208	214	224	264	329	353	360	353	350	360	355	351	356	355	354	354	353	352	353	352	356	355	331	222	245	292	356	361	361	362	360	360	362	362	
GLGR	GT01	68	68	68	69	68	70	69	67	69	69	68	69	69	69	68	69	68	69	69	69	103	102	101	100	100	68	87	101	87	87	87	88	90	87	66	67	67	67	68	104	102	101	70	68	68	68	69		
GLGR	GT02	68	68	68	69	68	68	67	68	68	67	68	68	68	68	68	68	68	68	68	68	101	101	101	101	101	67	88	101	87	88	87	86	90	88	66	68	67	68	68	102	101	100	68	68	66	68	68		
GLGR	ST1C	71	71	71	71	71	71	72	71	71	71	71	71	71	71	71	71	71	71	71	89	90	89	89	89	73	78	89	84	82	82	86	82	74	71	72	71	88	89	89	76	71	71	71	71	71	71	71		
KLPP	GT15	132	127	128	131	54	7	9	9	8	8	9	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST17	53	50	52	54	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPRI	BLK1	483	475	401	330	308	323	337	319	323	333	334	331	334	332	307	323	359	515	505	510	510	511	512	511	502	494	511	509	513	510	509	510	509	510	509	508	499	508	511	511	509	511	511	511	511	509	509	499	507
NPRI	BLK2	478	448	328	330	307	321	336	318	325	334	335	431	458	475	304	321	360	520	506	513	511	512	513	513	504	496	513	511	515	511	511	512	511	511	509	509	499	511	514	510	510	512	511	514	511	511	503	511	
PCGP	PGRG	589	574	576	403	402	402	402	183	181	182	184	186	186	182	182	401	613	597	606	609	602	604	603	594	585	601	601	610	601	601	603	602	602	603	602	588	603	603	605	603	602	601	607	602	602	591	603		
PGLA	GT11	163	159	159	168	158	163	167	163	164	167	167	168	167	159	164	168	172	164	166	174	216	217	216	210	161	167	162	198	212	200	200	214	196	175	172	164	166	166	209	205	205	198	189	182	183	162	167		
PGLA	GT12	191	186	188	196	186	192	196	192	193	195	196	196	196	196	196	197	186	192	195	201	245	215	246	241	190	196	190	226	244	229	229	246	224	203	200	190	194	194	240	237	235	228	217	210	212	190	195		
PGLA	ST10	204	202	200	205	200	198	205	205	200	202	205	205	205	200	202	204	204	202	205	214	235	230	234	239	204	207	214	214	235	220	234	234	231	217	213	202	207	209	227	232	234	230	232	215	224	206	204		
PLPS	GT11	128	129	129	129	129	128	129	128	129	128	127	129	129	128	129	128	129	129	128	125	142	142	137	136	132	139	134	137	134	133	135	135	135	134	116	112	66	115	115	132	134	133	134	134	134	130	131		
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	5	114	142	138	137	139	139	138	139	120	117	69	69	118	137	139	137	138	137	138	133	140			
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	119	135	132	130	137	131	134	130	129	130	131	130	131	113	110	93	63	111	129	129	130	129	129	126	123			
PLPS	ST18	59	59	58	58	58	58	58	58	57	58	58	58	58	57	57	58	58	58	58	58	60	126	144	143	142	146	192	211	210	211	210	210	209	198	197	162	151	197	210	210	209	208	210	209	209				
SKSP	BLK1	217	218	219	220	219	215	218	221	216	219	219	218	218	217	218	219	222	218	245	311	234	247	231	217	338	333	337	338	337	338	336	335	336	338	270														

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
BSIA	HY02	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY03	22	22	22	23	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
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
CEND	HY02	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	HY03	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	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	125	125	125	124	125	125	125	125	125	124	125
HTRG	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
KNRG	HY01	22	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	20	20	20	21	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	22	22	22	23	22	23	24	23	23	24	24	24	24	23	23	24	23	36	36	36	36	36	36	36
KNYR	HY01	98	94	93	101	93	91	98	98	92	95	56	59	100	100	94	95	99	101	95	99	99	100	100	100
KNYR	HY02	99	95	94	101	95	92	99	99	93	96	98	60	98	98	95	96	98	98	96	98	98	98	98	98
KNYR	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
KNYR	HY04	99	95	94	102	95	92	100	99	94	96	58	61	102	101	95	96	100	102	96	100	101	101	101	100
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	20	20	20	20	20	20	20	20
LPIA	HY02	19	19	19	19	19	19	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	7	7	4	4	7
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	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	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
SIHY	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
SYPS	HY01	0	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	0	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	0	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	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	HY01	84	85	85	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	52	52	72	72	72	72	72	61	62	72
TMGR	HY02	0	0	0	0	0	32	33	0	0	0	0	0	0	0	0	85	54	74	74	75	74	75	74	62
TMGR	HY03	86	85	85	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	50	50	70	70	70	70	69	57	60	70
TMGR	HY04	86	86	86	34	28	34	33	32	34	36	36	36	36	29	34	36	51	50	71	71	71	71	70	59
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	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		767	755	752	590	524	471	494	457	442	452	377	346	466	465	464	461	454	789	741	855	981	1053	1085	1204
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
BSLS	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

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		
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	10	12	17	19	22	18	25	27	25	33	23	20	29	26	22	26	24	16	5	2	1	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	8	14	19	21	37	41	23	47	53	43	54	52	55	49	50	47	40	32	24	15	6	3	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	2	4	8	14	17	14	24	23	33	40	34	37	39	38	36	20	28	26	22	16	6	4	2	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	1	21	47	82	124	151	202	257	234	302	328	307	360	351	320	306	271	260	231	195	135	85	41	15	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	3	5	3	4	4	5	3	3	4	5	6	5	4	3	4	5	3	4	5	5	5	4	4	4	3	3	4	4	3	3	3	4	3	3	3	4	3	5	4	4	4	5	4	4	4	5			
PCUF	CUFK	2	2	2	3	2	4	2	3	3	3	5	4	3	4	3	2	3	4	5	3	5	3	2	3	2	3	2	3	2	3	2	4	2	3	2	5	4	3	5	4	4	3	4	4	7	4	3		
Total Co-Gen		5	7	5	7	6	9	5	6	7	8	11	9	7	7	7	7	6	8	10	8	10	7	6	7	5	5	7	9	6	5	6	5	8	5	6	5	9	7	8	9	8	8	8	8	8	11	8	8	
Total Gen		15377	15055	14711	14369	14146	13884	13653	13529	13329	13170	13113	13161	13317	13493	13256	13307	13649	14808	15400	15901	16300	16694	16889	17054	16923	16726	16672	17055	17422	17772	17789	17756	17773	17760	17469	16898	16126	15884	15990	16775	17289	17360	17297	17026	16805	16761	16585	16142	
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		
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29		
TIE-PLTG		67	96	103	40	80	31	39	59	54	26	8	25	11	4	50	7	-46	-10	-38	-16	-41	-13	5	23	53	65	7	6	24	18	-17	17	-11	27	44	44	28	-4	57	21	19	8	17	-16	18	-12	31	17	
Interconnection		38	67	74	11	51	2	10	30	25	-3	-21	-4	-18	-25	21	-21	-75	-39	-67	-45	-70	-41	-23	-6	24	36	-22	-24	-5	-11	-47	-13	-40	-1	15	14	-1	-33	28	-8	-10	-21	-12	-44	-11	-41	2	-13	
System Total		15339	14988	14637	14358	14095	13882	13643	13499	13304	13173	13134	13165	13335	13518	13235	13328	13724	14847	15467	15946	16370	16735	16912	17060	16899	16690	16694	17079	17427	17783	17836	17769	17813	17761	17454	16884	16127	15917	15962	16783	17299	17381	17309	17070	16816	16802	16583	16155	
SRev ST-Coal		183	246	252	250	275	394	452	385	492	631	622	624	624	516	482	499	478	515	293	202	175	197	192	206	194	209	270	191	202	192	183	159	183	190	194	188	193	193	214	193	177	187	180	169	201	189	199	189	
SRev CCGT-Gas		1044	1276	1603	1793	1984	1826	1769	1825	2026	2003	1994	1872	1830	1818	2076	2020	1701	973	973	717	500	377	379	297	401	529	645	573	426	279	356	319	271	345	454	726	1308	1495	1343	564	287	268	340	524	647	656	807	934	
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	
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	
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	
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	
Syncon		802	802	802	802	977	977	977	977	977	1048	1048	977	977	977	826	826	977	676	676	676	676	525	525	338	525	525	676	676	676	374	374	374	374	187	374	525	525	525	525	525	525	525	525	525	525	525	802		
Hydro		90	102	105	180	158	113	90	97	112	101	176	208	88	89	241	244	100	153	201	135	134	293	261	479	397	327	177	170	215	592	494	552	551	638	594	437	576	435	435	436	464	402	400	383	244	208	220	44	
S.Reserve Total		2119	2426	2762	3025	3394	3310	3288	3284	3607	3783	3840	3681	3519	3400	3625	3589	3256	2317	2143	1730	1485	1392	1357	1320	1517	1590	1768	1610	1519	1437	1407	1404	1379	1360	1616	1876	2602	2648	2517	1718	1453	1382	1445	1601	1617	1578	1751	1969	