

Daily System Generation Summary on Friday

Friday, November 20, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,222 MW
Distillate	0 MW
Total TNB	2,222 MW
Total IPP	17,819 MW
Total Co-Gen	0 MW
Total System	22,864 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,116	4.25 %
Gas	44,279	12.46 %
Total TNB	59,395	16.71 %
ST-Coal	237,721	66.90 %
LSS	3,001	0.84 %
Gas	54,720	15.40 %
Total IPP	295,442	83.14 %
Co-Gen	207	0.06 %
Total Co-Gen	207	0.06 %
Total Generation	355,044	99.92 %
PLTG	369	0.10 %
HVDC	-669	-0.19 %
Interconnection	-300	-0.08 %
Net Energy	355,344	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:	15:30:00 Hour
Total Set On Bus	18,785 MW
TNB Generation	3,466 MW
IPP Generation	13,378 MW
Spinning Reserve	1,933 MW
Maximum Demand	16,828 MW
Net Energy	355,344 MWH
Load Factor	87.98 %

Fuel Cost

Total Cost:	42,812,626.52 RM
Cost per Unit	12.06 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	622
Hydro	269
Syncon	685
Thermal	482
Total	2,058

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	45
TJGS	177
Total TNB	222
CBPS	47
NPRI	156
PGLA	3
PLPS	4
SGRI	41
YPKA	21
Total IPP	272
Total Gas	494
Total Gas Required	494

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	14179	13541	13208	12784	12532	12419	12486	12600	12917	14507	15402	15988	16124	15817	16230	16778	16799	16339	15402	15999	16424	15924	15408	15211

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:55:26 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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	632	631	632	632	633	632	634	633	632	632	633	634	631	632	633	631	631	631	633	632	632	633	632	634	632	631	633	632	631	633	632	631	633	625	637	632	633	633	633	632	632	633	632	633	632	633	630	631	520																																																																																																																																																																																																																																																																																																																																																																																																																					
JMAH	U002	371	373	373	374	374	370	374	372	372	373	374	372	374	373	374	375	370	373	374	371	372	373	373	375	372	372	373	373	370	372	372	371	373	373	373	375	373	375	373	374	371	376	373	371	376																																																																																																																																																																																																																																																																																																																																																																																																																									
JMHE	U001	975	901	896	847	847	727	788	777	780	781	779	783	779	781	783	784	783	779	781	779	943	976	981	980	981	979	976	978	979	982	980	982	980	982	974	974	982	977	981	972	970	956	943	956	954	957	959	962																																																																																																																																																																																																																																																																																																																																																																																																																						
JMHE	U002	965	900	898	859	849	779	780	780	781	783	780	781	781	778	977	975	982	978	983	979	974	980	980	980	978	984	990	983	979	979	975	983	978	982	979	979	980	977	976	984	979	979	983																																																																																																																																																																																																																																																																																																																																																																																																																											
JMJG	U001	670	672	673	671	671	672	666	637	605	570	546	580	542	548	545	516	518	607	671	666	668	677	677	671	670	622	601	610	610	666	668	672	670	670	673	671	666	675	669	668	667	668	672	674	668	669	673	662																																																																																																																																																																																																																																																																																																																																																																																																																						
JMJG	U002	672	673	671	675	673	673	671	637	608	571	554	548	549	553	549	517	520	602	671	672	673	670	665	672	677	623	599	596	611	674	672	673	674	667	678	672	677	666	681	676	672	670	674	670	676	677	669	677																																																																																																																																																																																																																																																																																																																																																																																																																						
JMJG	U003	662	663	672	660	666	662	662	633	601	562	541	545	548	543	542	514	513	599	644	668	668	667	666	669	667	624	621	590	620	634	668	668	663	668	668	666	667	667	671	668	671	667	671	669	668	670	667																																																																																																																																																																																																																																																																																																																																																																																																																							
JMJG	U004	913	854	794	735	710	710	711	711	713	712	711	713	711	711	714	713	711	711	710	711	710	712	712	709	712	713	710	710	710	709	709	711	713	712	711	711	711	710	711	734	808	809	808	810	806	807	803	746																																																																																																																																																																																																																																																																																																																																																																																																																						
JMJG	U005	801	804	726	696	711	701	699	701	702	703	701	703	704	699	701	704	702	702	701	701	700	701	700	700	695	702	700	702	699	702	701	702	700	699	700	704	706	705	771	796	794	796	798	800	798	790	695																																																																																																																																																																																																																																																																																																																																																																																																																							
PKLG	U003	279	280	281	281	281	280	282	282	280	281	284	278	281	282	279	280	283	282	283	281	280	281	280	278	278	279	280	279	280	279	279	279	278	278	278	273	272	274	272	276	278	280	280																																																																																																																																																																																																																																																																																																																																																																																																																											
PKLG	U005	467	468	466	462	468	467	466	467	466	467	468	467	468	466	462	472	467	469	466	465	469	466	465	466	465	466	465	467	466	467	468	467	466	466	465	467	466	466	468	464	468	469	469	468	468																																																																																																																																																																																																																																																																																																																																																																																																																									
PKLG	U006	448	449	450	445	444	449	447	447	445	447	447	447	447	451	449	448	451	449	448	449	447	447	448	448	449	447	449	450	449	449	448	449	448	446	448	449	448	446	448	447	448	450	451	450	450	449	449	448	448																																																																																																																																																																																																																																																																																																																																																																																																																					
TBIN	U001	0	0	0	0	0	0	0	0	0	0	0	0	18	119	241	191	245	299	367	434	511	585	709	601	606	599	599	600	577	600	599	599	601	599	596	422	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																					
TBIN	U002	690	691	690	690	691	691	690	691	688	692	689	692	690	688	690	691	691	690	686	690	691	687	693	690	691	690	687	690	690	693	693	687	691	691	690	688	689	690	692	687	691	689	694	692	690	689	691	692																																																																																																																																																																																																																																																																																																																																																																																																																						
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TBIN	U004	980	902	903	854	855	794	784	780	782	780	784	783	782	782	782	781	782	782	782	780	818	906	981	982	982	984	982	981	981	984	984	981	982	983	981	981	985	979	982	984	982	982	983	982	983	982	982																																																																																																																																																																																																																																																																																																																																																																																																																							
Total ST-Coal		10214		9948		9812		9570		9560		9298		9341		9241		9144		9035		8979		8982		8995		9102		9209		9090		9140		9447		9681		9772		10248		10442		10655		10541		10557		10398		10338		10313		10349		10502		10550		10546		10546		10540		10527		10352		9942		9937		9962		10024		10122		10099		10098		10109		10120		10111		10110		9848																																																																																																																																																																																																																																																																																																																																																																							
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Daily MW Generation on Friday

		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	HY03	24	24	24	24	24	24	24	23	24	23	24	23	24	23	24	24	23	12	12	12	12	12	12	12	11	12	12	23	23	23	23	23	22	23	22	23	23	22	23	23	23	12	12	12	12	23	23	23	24	23	23		
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
CEND	HY02	9	9	9	9	9	9	9	9	8	9	9	9	8	8	8	8	8	8	8	0	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
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	8	8	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	63	125	125	63	-1	-1	-1	-1	-1	-1	-1	-1			
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36		
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	67	65	61	60	63	64	95	73	62	60	61	60	60	83	64	67		
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	49	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	100	99	98	50	95	95	100	100	97	96	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	58	59	58	83	59	99	59	59	56	56	56	60	61	59	63	89	66	93	84	60	57	72	101	59	101	56	63	66	61	66	55	63	67	63	61	58	59	90	69	58	57	57	57	57	57	80	62	63	63				
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	20	20	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
LPIA	HY02	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
MNOR	HY01	6	6	6	6	7	7	7	7	7	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	7	7	7	7	7	7	7	7	5	5	3	3	6	6	7	7			
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	20	20	0	0	0	0	
PGAU	HY03	-1	21	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	20	19	20	23	17	20	-1	-1	-1	-1		
SIHY	HY02	50	50	50	50	50	50	50	50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
SIHY	HY03	50	50	50	50	50	50	50	50	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
SYPS	HY01	25	25	25	25	25	25	25	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	25	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	23	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	23	23	23	23	23	23	23	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	34	80	34	34	31	84	83	83	83	81	83	83	81	59	32	33	83	83	83	83	83	83	83	83	30	62	62	62	
TMGR	HY02	43	44	42	65	43	84	43	44	42	44	44	44	44	43	47	69	48	76	61	44	38	56	83	66	45	43	47	49	86	86	84	86	86	86	87	87	42	44	73	64	43	43	43	39	43	71	45	53					
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	57	32	82	32	32	79	82	82	82	82	78	82	82	79	57	30	31	83	83	83	83	83	81	29	30	30	30			
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	59	33	83	33	33	80	83	83	83	83	79	83	83	80	58	31	32	84	84	84	84	81	29	31	30	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	-1	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	99	99	89	-1	-1	73	185	93	-1	-1	-1	-1	-1					
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
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	6	6	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		446	470	417	445	400	481	399	346	340	309	308	248	250	251	247	242	273	359	304	329	354	563	523	726	608	575	618	709	714	745	751	1057	1068	1070	1043	838	849	785	1119	1323	1203	1044	917	901	734	795	731	744					
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	0	0	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	1	1	2	5	13	16	20	22	23	24	24	27	15	17	19	22	25	8	5	3	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	10	14	18	23	26	28	25	10	6	26	19	15	8	12	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0																																										

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		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	57	118	175	261	331	367	409	384	409	440	406	444	381	429	365	324	256	177	128	87	40	10	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	5	6	5	5	5	6	6	5	6	6	6	6	6	6	6	6	6	5	6	7	6	5	4	5	5	5	5	6	6	4	5	5	5	5	4	6	5	6	6	5	5	5	5	6	6	5	7		
PCUF	CUFK	3	4	3	4	4	4	2	5	3	3	3	4	4	3	3	4	3	3	3	3	4	3	3	4	5	4	3	3	3	3	3	2	2	2	2	2	3	2	3	4	4	4	1	3	3	3	3	3	
Total Co-Gen		8	10	8	9	9	10	8	10	9	9	9	10	10	9	9	10	9	9	8	9	11	9	8	8	10	9	8	8	9	9	7	8	7	7	7	6	9	7	9	10	9	9	6	8	9	9	8	10	
Total Gen		14187	13841	13536	13306	13208	12948	12795	12688	12544	12461	12405	12411	12399	12523	12564	12523	12881	13788	14450	14897	15332	15689	15933	16154	16038	15908	15829	15999	16174	16570	16749	16852	16754	16657	16336	15921	15373	15350	16000	16447	16435	16248	15949	15790	15403	15360	15265	14984	
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			
TIE-HVDC		-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29		
TIE-PLTG		46	11	33	1	38	14	47	21	49	-1	23	12	-50	-44	2	-13	1	-20	-20	-10	-33	27	-17	-29	-49	-10	48	9	-20	18	6	61	-8	-30	35	57	8	84	37	62	48	52	61	55	33	-22	91	24	
Interconnection		16	-18	3	-29	8	-14	19	-8	20	-30	-6	-18	-79	-75	-28	-42	-28	-49	-49	-38	-62	57	-47	-58	-78	-39	20	-19	-49	-10	-22	32	-37	-60	5	28	-21	55	9	33	19	23	33	25	3	-52	62	-5	
System Total		14179	13867	13541	13343	13208	12970	12784	12704	12532	12499	12419	12437	12486	12606	12600	12573	12917	13845	14507	14943	15402	15640	15988	16220	16124	15955	15817	16025	16230	16587	16778	16828	16799	16725	16339	15901	15402	15303	15999	16422	16424	16233	15924	15773	15408	15420	15211	14996	
SRev ST-Coal		248	606	677	709	690	748	692	792	846	840	837	835	868	869	894	883	837	850	726	716	568	544	442	453	439	592	619	606	625	495	449	446	453	456	460	643	459	467	439	414	391	413	375	361	354	361	360	435	
SRev CCGT-Gas		657	763	877	894	937	804	916	1012	1052	995	994	932	959	942	1004	935	705	578	624	498	745	958	1002	838	883	844	954	886	877	723	602	797	701	498	803	862	967	890	519	190	181	184	190	343	383	270	299	331	
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		
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		
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		
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		
Syncon		1027	876	876	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	825	1027	1027	876	853	853	853	752	853	853	853	853	853	853	464	464	464	464	651	338	500	338	187	187	374	601	601	601	752	752	752		
Hydro		109	236	239	60	105	24	106	159	165	146	147	107	105	104	108	113	61	198	51	90	280	281	321	118	337	269	226	136	131	100	94	226	215	213	240	258	435	462	290	287	557	529	429	445	462	250	314	302	
S.Reserve Total		2041	2481	2669	2690	2759	2603	2741	2990	3090	3008	3005	2901	2959	2942	3033	2958	2651	2451	2428	2331	2469	2636	2618	2262	2411	2558	2652	2481	2486	2171	1998	1933	1833	1631	1967	2414	2199	2319	1586	1078	1316	1500	1595	1750	1800	1633	1725	1820	