

Daily System Generation Summary on Wednesday

Wednesday, August 19, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,322 MW
Distillate	0 MW
Total TNB	2,322 MW
Total IPP	17,577 MW
Total Co-Gen	0 MW
Total System	22,722 MW

Generation Mix

Type	MWh	Percentage
Hydro	25,364	6.98 %
Gas	34,110	9.39 %
Total TNB	59,474	16.38 %
ST-Coal	253,623	69.84 %
LSS	2,363	0.65 %
Gas	48,362	13.32 %
Total IPP	304,348	83.80 %
Co-Gen	157	0.04 %
Total Co-Gen	157	0.04 %
Total Generation	363,979	100.22 %
PLTG	475	0.13 %
HVDC	338	0.09 %
Interconnection	813	0.22 %
Net Energy	363,166	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:	14:30:00 Hour
Total Set On Bus	18,377 MW
TNB Generation	3,434 MW
IPP Generation	13,694 MW
Spinning Reserve	1,241 MW
Maximum Demand	17,225 MW
Net Energy	363,166 MWH
Load Factor	87.85 %

Fuel Cost

Total Cost:	51,390,175.14 RM
Cost per Unit	14.12 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	467
Hydro	342
Syncon	585
Thermal	193
Total	1,587

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	40
TJGS	173
Total TNB	214
CBPS	46
NPRI	138
PGLA	67
PLPS	1
YPKA	0
Total IPP	253
Total Gas	466
Total Gas Required	466

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	14750	13980	13495	13121	12802	12731	12982	13008	13577	15308	16012	16575	16575	16286	16861	17189	17128	16632	15477	15353	16253	16036	15527	15161

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:33:04 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Wednesday

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	693	691	692	693	694	691	692	596	601	551	552	553	551	602	653	673	694	693	693	693	690	691	694	692	694	692	693	693	695	692	695	694	692	695	694	692	693	692	693	693	691	694	692	693	694	693	694			
JMAH	U002	694	694	694	689	694	693	692	603	604	554	553	553	553	603	653	664	696	695	697	693	695	695	692	699	693	691	694	693	699	693	697	689	690	697	693	694	688	693	696	695	693	689	690	694	696	694	696	694		
JMHE	U001	925	900	851	779	784	776	782	778	776	781	780	781	781	782	779	781	781	846	980	980	980	978	981	981	979	979	982	978	989	979	979	980	978	978	979	978	975	981	981	978	978	981	974	982	977	978	976	979		
JMHE	U002	932	900	852	779	783	780	780	780	775	780	779	780	780	781	779	780	781	843	981	978	979	979	980	981	977	979	983	978	988	979	978	980	981	979	980	981	979	980	979	974	982	981	979	980	974	980	977	979	977	978
JMJG	U001	670	673	671	677	673	673	677	672	675	673	672	672	677	672	672	672	672	672	673	664	672	673	671	673	672	671	675	673	664	672	673	672	667	675	670	672	672	671	675	672	670	671	672	673	671	669	669	669	672	
JMJG	U002	670	679	661	677	683	676	669	673	679	664	682	670	667	676	668	682	668	672	667	668	674	673	682	668	679	672	666	675	662	670	673	671	672	667	671	671	675	672	670	671	672	673	671	669	676	672	674	672		
JMJG	U003	663	672	664	662	662	663	666	663	662	667	665	663	668	666	667	659	664	665	673	666	651	645	676	667	668	668	666	668	668	673	666	668	668	669	668	668	669	668	668	667	668	667	670	667	667	668	669	669	668	669
JMJG	U004	958	904	833	790	790	790	786	791	790	790	791	790	791	791	789	789	789	809	884	939	980	980	978	979	982	982	982	981	982	981	981	983	981	981	982	980	985	980	979	981	980	983	980	981	982	979	983	979		
JMJG	U005	730	734	730	718	718	725	727	725	725	726	726	726	725	725	725	728	731	731	731	728	723	725	719	731	730	732	732	731	726	726	733	731	731	733	732	731	735	737	732	737	738	738	731	728	733	733	736	733		
PKLG	U003	281	281	282	279	279	280	277	279	277	214	206	206	206	206	273	279	278	281	281	281	281	279	280	281	278	279	277	277	280	279	274	278	276	279	278	278	278	274	280	276	280	275	274	275	276	275	276	275	278	
PKLG	U004	280	277	281	278	278	277	275	267	279	212	202	205	205	253	278	282	278	276	276	277	277	277	276	281	278	279	275	270	275	279	277	278	270	279	280	278	278	279	277	281	278	276	277	277	277	280	277			
PKLG	U005	312	311	382	405	462	464	461	459	468	466	466	464	461	459	469	465	466	460	467	471	473	467	463	468	464	466	464	465	464	464	464	464	466	467	465	464	466	467	468	466	463	466	463	464	464	465	466	463		
PKLG	U006	447	448	445	446	445	447	446	449	450	442	443	441	446	452	453	453	445	442	445	438	447	450	457	455	449	448	446	446	445	445	446	450	448	448	445	445	440	440	445	443	447	448	451	449	449	452	448	447		
TBIN	U001	691	689	691	687	691	690	690	690	691	690	689	692	691	691	691	691	693	691	690	691	691	689	692	691	689	691	690	687	694	690	687	691	689	691	690	690	691	690	690	687	691	689	690	691	692	690	690	689	691	
TBIN	U003	691	691	690	692	689	692	692	692	691	692	691	691	690	692	688	688	691	692	691	694	690	690	692	690	693	691	690	691	693	691	692	689	693	690	692	691	692	690	690	688	691	689	689	674	689	692	692			
TBIN	U004	964	904	838	781	782	780	783	782	780	781	785	783	783	782	783	780	781	803	894	981	982	982	982	980	981	984	983	983	980	981	985	982	982	984	984	983	984	984	982	982	984	983	983	982	981	983	982	982		
Total ST-Coal		10601104481025710032101071009710095 9899 9923 9683 9682 9670 9675 9900 10026100651011110271107231084210885108731091510917109061090310894108901091910887108981090010891109091090310893109001089810901109001090610905108791089410880108981090510900																																																	
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				
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				
CBPS	BLK2	276	213	221	224	223	215	215	223	223	223	224	223	223	223	224	221	236	287	341	360	363	359	357	357	362	362	362	359	362	360	362	357	362	340	325	325	275	224	271	325	356	349	322	268	228	213	220			
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	26	44	84	108	84	108	112	111	111	110	110	110	109	109	101	100	100	101	86	67	68	67	67	91	110	110	110	110	109	110	111	111	109	112			
GLGR	GT02	96	96	97	97	97	96	97	96	96	96	96	96	96	96	96	97	107	86	109	111	111	110	109	109	108	108	107	100	100	100	101	86	67	68	68	68	0	0	0	0	0	0	0	0	0	0				
GLGR	ST1C	38	37	38	38	38	38	38	38	38	38	38	38	38	38	36	36	92	81	95	98	98	98	98	97	96	97	100	91	91	91	89	82	73	70	71	58	42	46	47	47	47	48	48	47	48					
NPRI	BLK1	503	494	486	488	365	418	397	358	321	379	364	380	505	392	326	328	379	456	441	466	514	515	515	514	509	514	514	516	517	514	509	514	507	515	496	511	428	357	465	513	497	501	490	461	430	521	426	459		
NPRI	BLK2	505	484	486	494	347	317	319	358	320	431	361	376	469	394	325	328	376	476	441	425	516	517	512	516	510	516	515	516	518	516	512	515	509	516	486	507	415	358	453	515	501	504	490	471	409	523	508	489		
PCGP	PGRG	603	593	601	601	532	398	207	179	179	182	181	181	182	303	302	302	302	588	604	602	601	606	610	606	595	452	454	453	488	452	448	453	448	452	439	451	444	452	455	454	446	448	440	440	396	362	346	352		
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	139	218	209	210	220	219	219	219	219	193	166	166	0	0	0	0	0	0	0	0	0	0	0	0				
PGLA	GT12	183	180	182	183	181	178	180	184	180	183	184	183	183	190	188	188	183	178	180	227	227	227	235	224	256	240	241	252	253	251	250	251	223	196	196	190	176	181	181	181	176	177	172	173	177	184	175	181		
PGLA	ST10	90	90	90	90	90	90	90	90	90	90	90	90	90	90	89	89	89	89	89	113	112	112	96	120	247	235	234	245	246	247	245	242	215	203	158	93	90	88	90	90	89	88	88	90	90	90				
PLPS	GT11	129	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST18	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
SPGP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	77	161	229	326	379	489	487	485	482	480	483	484	485	485	487	485	487	495	500	490	491		
TJGS	GT1A	124	123	126	124	127	116	127	125	124	124	123	124	123	125	125	124	125																																	

Daily MW Generation on Wednesday

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	
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	124	124	124	124	123	124	62	-1	-1	123	123	124	123
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	124	123	123	124	122	123	124	63	62	63	124	123	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	23	23	23	23	22	23	22	
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	32	38	38	37	37	25	25	26	25	24	25	24	
KNRG	HY03	38	38	38	38	38	38	38	38	38	38	38	38	37	37	37	36	36	25	25	26	25	24	25	24	
KNYR	HY01	97	98	99	99	96	97	98	98	99	100	99	99	97	98	64	71	99	98	101	100	99	100	101	101	
KNYR	HY02	98	99	100	100	97	98	99	99	100	100	100	100	100	98	100	100	100	100	99	100	99	95	100	100	
KNYR	HY03	99	100	101	101	98	98	99	99	100	101	102	101	101	101	100	99	101	101	101	102	99	100	95	102	
KNYR	HY04	98	99	101	100	97	98	99	99	100	101	101	98	100	92	64	75	101	99	101	101	101	101	101	101	
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	17	17	
LPIA	HY02	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	16	16	16	16	16	16	16	16	16	
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	6	7	7	7	7	3	3	3	
PGAU	HY01	-1	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	20	20	
PGAU	HY02	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	20	-1	21	21	21	21	21	-1	
PGAU	HY03	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	17	-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	21	21	21	21	21	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	30	30	50	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	50	50	50	30	30	50	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	17	17	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25	
TMGR	HY01	62	14	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	84	84	84	84	83	84	84	83	84	84	
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	86	88	88	88	88	88	87	88	88	88	88	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	83	80	80	80	80	80	80	79	80	80	80	
TMGR	HY04	82	41	70	71	41	39	40	84	48	85	84	84	82	83	45	57	85	49	82	82	81	82	81	82	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	-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	5	5	5	5	5	5	5	5	5	5	5	5	
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		676	592	609	631	590	591	575	620	587	626	625	645	621	615	514	542	624	1087	1156	1148	1297	1351	1381	1383	
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	1	2	10	14	15	18	17	18	22	25	26	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	9	9	16	28	11	21	26	26	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	15	9	17	28	41	27	48	21	30	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	14	24	20	30	42	43	44		
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	6	11	12	19	25	27	27	26	24	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	11	18	21	39	42	39	23		
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	5	9	16	32	20	3	9	15		
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	11	26	31	24	32	38	34	43		
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	12	18	24	23	35	37	26	45		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	14	17	33	45	49	53	58	20		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	15	23	22	32	34	36	39	41		
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	2	35	77	123	168	223	289	353	327	388	330	
PCUF	CUFG	5	3	4	4	5	2	3	4	2	2	3	3	2	5	2	4	5	3	2	4	4	3	3	4	
PCUF	CUFK	3	3	3	3	4	4	3	2	3	2	2	4	3	5	3	4	3	4	3	4	3	4	3	2	

Daily MW Generation on Wednesday

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 Co-Gen		8	6	7	7	9	6	6	6	5	4	5	7	5	10	5	7	7	7	5	9	9	4	8	8	6	8	7	8	7	8	7	4	7	5	7	7	4	7	5	5	7	7	7	6	7	8	6	5	
Total Gen		14742	14325	13984	13793	13489	13335	13129	12959	12868	12842	12754	12795	12993	13185	13086	13201	13543	14684	15333	15619	16017	16366	16629	16687	16662	16425	16293	16609	16885	17136	17071	17050	17037	17029	16608	16169	15576	15337	15454	16079	16391	16317	16141	15879	15587	15453	15259	14945	
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	30	30	30	31	31	30	30	30	30	30	30	30	31	31	31	31	31	30	30	29	30	30	29	-99	-99	-98	-98	-97	-97	31	31	30	30	29	29	30	30	30	30	30	30	31			
TIE-PLTG		-30	-6	-19	-16	-30	10	-15	9	43	-4	0	-2	-12	-7	55	7	-57	43	2	-11	-19	5	31	29	64	4	-15	26	2	17	-12	-10	14	49	80	58	76	53	78	33	116	44	82	46	37	-11	75	42	
Interconnection		-1	23	11	15	1	40	15	39	73	26	30	28	18	23	85	37	-27	72	32	20	12	36	61	59	94	33	14	55	31	-82	-111	-108	-84	-49	-17	88	106	84	108	62	145	74	112	76	67	20	105	73	
System Total		14750	14309	13980	13785	13495	13302	13121	12927	12802	12823	12731	12774	12982	13169	13008	13171	13577	14619	15308	15606	16012	16337	16575	16635	16575	16399	16286	16561	16861	17225	17189	17165	17128	17085	16632	16088	15477	15260	15353	16024	16253	16250	16036	15810	15527	15440	15161	14879	
SRev ST-Coal		336	484	445	422	504	508	516	648	621	683	671	686	679	651	582	544	494	508	331	243	160	172	170	168	179	182	191	195	166	198	187	185	194	176	182	192	185	187	184	185	179	180	206	191	205	187	180	185	
SRev CCGT-Gas		863	911	862	850	1190	1332	1520	1539	1620	1444	1531	1500	1281	1418	1537	1543	1362	886	802	676	525	279	516	436	346	315	460	364	227	135	186	285	321	370	624	690	944	1055	848	603	387	460	542	780	979	833	1005	776	
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	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
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
Syncon		1041	1041	1128	977	977	977	1128	1128	1128	1128	1128	977	1128	1128	1128	1128	827	676	827	827	525	676	676	676	802	802	676	676	338	525	374	525	525	525	525	827	827	827	640	489	489	490	640	640	640	640	766		
Hydro		73	157	53	182	223	222	87	42	75	36	37	168	41	47	148	120	38	88	194	51	66	314	183	181	384	317	345	279	213	579	489	623	497	490	601	485	233	226	218	171	434	433	201	241	329	347	364	322	
S.Reserve Total		2313	2593	2488	2431	2894	3039	3251	3357	3444	3291	3367	3331	3129	3244	3395	3335	3022	2309	2003	1797	1578	1290	1545	1461	1585	1616	1798	1514	1282	1250	1387	1467	1537	1561	1932	1892	2189	2295	2077	1599	1489	1562	1439	1852	2153	2007	2189	2049	