

Daily System Generation Summary on Friday

Friday, August 21, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,472 MW
Distillate	0 MW
Total TNB	2,472 MW
Total IPP	17,922 MW
Total Co-Gen	0 MW
Total System	23,217 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,570	6.43 %
Gas	34,917	9.52 %
Total TNB	58,487	15.95 %
ST-Coal	255,914	69.81 %
LSS	2,249	0.61 %
Gas	51,021	13.92 %
Total IPP	309,184	84.34 %
Co-Gen	163	0.04 %
Total Co-Gen	163	0.04 %
Total Generation	367,834	100.34 %
PLTG	512	0.14 %
HVDC	723	0.20 %
Interconnection	1,235	0.34 %
Net Energy	366,599	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:	16:30:00 Hour
Total Set On Bus	18,228 MW
TNB Generation	3,824 MW
IPP Generation	13,499 MW
Spinning Reserve	899 MW
Maximum Demand	17,260 MW
Net Energy	366,599 MWH
Load Factor	88.50 %

Fuel Cost

Total Cost:	52,626,545.74 RM
Cost per Unit	14.31 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	335
Hydro	486
Syncon	375
Thermal	191
Total	1,387

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	189
Total TNB	217
CBPS	50
NPRI	145
PGLA	53
SGRI	4
Total IPP	251
Total Gas	468
Total Gas Required	468

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	14981	14403	13855	13488	13132	12856	12881	12972	13416	15123	15995	16506	16540	16209	16599	17206	17258	16889	15885	15697	16579	16405	15994	15699

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, September 4, 2020 10:33:55 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	693	693	694	691	693	692	693	693	691	692	692	693	692	693	692	691	692	691	693	692	693	692	694	692	693	693	692	692	694	694	693	695	692	694	692	693	693	692	694	692	693	693	692							
JMAH	U002	692	694	691	695	694	689	694	695	693	695	693	694	687	695	693	692	692	695	693	701	693	693	695	694	694	693	693	698	694	695	693	694	695	695	693	698	695	689	694	694	691	695	697	693	694	698	691	695		
JMHE	U001	981	980	980	980	978	980	983	980	978	777	782	780	780	781	779	908	984	980	979	979	983	979	982	979	978	980	981	980	978	978	979	984	980	976	976	978	975	982	984	979	981	980	980	981	978	976				
JMHE	U002	981	981	981	980	979	980	979	981	977	776	780	783	779	782	780	780	780	935	982	980	979	983	981	976	982	980	978	979	979	982	978	981	981	980	978	977	977	979	977	978	981	981	980	979	979	977	979	976		
JMJG	U001	654	618	599	596	599	572	545	550	551	548	548	593	597	600	596	596	598	596	646	677	676	676	678	679	683	676	677	674	675	677	676	679	676	667	677	677	676	675	682	677	678	676	679	677	673	678	679			
JMJG	U002	657	613	600	596	598	573	546	551	550	548	548	591	601	593	601	595	598	597	641	671	674	682	676	676	678	680	670	679	678	684	675	681	675	675	679	677	675	678	673	677	681	667	679	679	679	683	678	670		
JMJG	U003	639	590	594	593	597	543	541	547	546	545	541	585	596	595	598	596	593	596	641	659	666	666	664	664	669	667	666	666	668	662	666	664	666	666	667	666	666	667	666	666	667	664	664	666	673	668	637	678	668	668
JMJG	U004	974	975	973	974	972	972	973	976	976	888	803	783	785	785	785	787	785	843	927	979	978	978	979	978	983	979	979	981	980	982	982	982	982	983	952	981	978	983	972	974	977	974	974	977	974	977	977	973		
JMJG	U005	727	726	728	722	721	724	725	724	725	722	725	724	725	726	729	732	730	731	732	719	724	724	719	730	728	727	730	730	729	730	728	727	730	731	732	731	730	730	728	725	724	721	721	729	727	733	732	732		
PKLG	U003	276	276	276	276	277	275	276	273	277	275	276	274	276	274	275	276	274	277	277	275	278	276	278	276	278	275	277	275	278	276	278	276	278	276	276	277	277	278	278	276	274	275	276	276	278	277				
PKLG	U004	277	268	281	279	279	278	279	279	273	280	280	280	283	282	281	282	278	283	280	279	275	281	277	278	279	277	276	279	281	278	279	278	277	272	280	280	277	292	283	278	276	276	276	275	273	279	278	279		
PKLG	U005	465	466	464	468	466	463	466	467	468	466	464	464	464	465	466	465	465	466	468	471	468	464	465	466	470	466	467	468	466	464	467	467	466	466	469	468	467	466	467	466	466	466	466	466	462	466	467	468		
PKLG	U006	446	446	449	447	446	448	446	448	447	449	450	452	448	446	445	446	449	447	447	450	448	445	449	451	447	447	446	449	447	446	450	449	447	449	446	447	447	450	450	449	450	447	449	450	452	449	449	449		
TBIN	U001	687	690	691	692	691	690	690	690	689	691	690	690	690	691	691	691	690	689	692	689	686	690	691	689	690	690	691	689	691	690	690	690	690	691	689	691	687	693	688	691	690	691	689	692	690	690	691	691		
TBIN	U003	691	691	693	692	691	690	691	694	689	692	691	690	690	691	691	691	691	691	691	692	690	691	691	687	691	688	691	691	692	691	690	687	690	690	690	691	693	691	689	691	690	691	690	691	690	691	690	691		
TBIN	U004	983	982	983	983	984	983	983	982	983	919	830	783	782	781	783	782	782	842	933	982	982	982	984	983	982	982	982	984	983	983	984	983	983	982	983	983	981	983	985	982	983	982	983	983	983	983	983	983		
Total ST-Coal		108231068910677106641066510552105101053010513 9963 9793 9859 9876 9879 9887 9885 9875 10287107281089410889109031090110899109211091010894109161091110911109061090410912109111087410913108961092410891109051090510885109001091010865109231091010899																																																	
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			
CBPS	BLK2	357	360	359	362	255	223	223	223	223	221	223	222	223	223	246	279	318	361	362	362	362	357	358	355	357	355	354	352	352	353	354	354	354	357	352	354	283	318	362	362	362	366	362	362	354	354	332			
GLGR	GT01	101	101	101	95	96	95	96	95	95	95	96	95	95	95	95	96	96	95	96	95	95	95	95	96	95	95	95	94	95	96	95	96	95	94	95	96	95	97	102	101	102	96	95	95	95	95				
GLGR	ST1C	43	43	43	41	41	41	40	41	39	41	40	41	40	41	40	41	40	41	40	41	41	40	41	41	40	41	41	41	40	41	41	40	41	41	41	41	42	42	42	42	41	41	41	41	40	40				
NPRI	BLK1	514	515	514	514	510	514	382	388	326	482	497	381	425	469	486	392	478	518	515	511	512	509	522	511	490	496	431	477	464	506	511	517	503	508	508	505	509	511	496	523	517	511	513	510	506	500	506	497		
NPRI	BLK2	519	518	518	518	466	387	382	385	325	481	470	382	425	436	453	391	413	461	372	517	509	511	514	511	512	510	505	511	511	511	509	515	511	511	510	505	508	512	505	516	517	512	512	511	511	503	508	499		
PCGP	PGRG	452	451	451	450	451	453	452	182	181	181	303	402	402	402	403	480	501	609	609	603	602	603	607	602	606	604	596	603	602	602	601	609	603	602	603	595	600	603	594	609	611	604	607	602	601	590	597	590		
PGLA	GT12	182	183	182	182	181	182	182	182	181	182	183	181	182	182	187	188	187	189	190	183	183	183	183	183	183	182	180	183	182	183	245																			

Daily MW Generation on Friday

[illegible]

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																									
TIE-HVDC		30	30	31	30	30	31	31	29	29	30	30	30	30	31	31	31	31	29	30	31	29	29	30	31	29	30	31	29	32	31	31	31	29	30	30	30													
TIE-PLTG		15	-6	29	-16	29	16	7	29	0	2	-24	20	20	14	44	-31	-39	16	-2	31	-13	-38	7	48	16	31	3	45	86	36	3	15	54	45	80	98	52	-19	66	6	15	44	-2	34	-9	43	65	58	
Interconnection		45	24	60	14	59	47	38	58	29	32	6	50	50	44	75	-1	-8	48	27	61	18	-8	36	78	47	60	35	77	115	66	33	44	83	76	111	126	81	11	97	35	47	75	29	66	21	73	95	88	
System Total		14981	14723	14403	14166	13855	13654	13488	13237	13132	12867	12856	12770	12881	12942	12972	13007	13416	14428	15123	15571	15995	16328	16506	16580	16540	16354	16209	16308	16599	16858	17206	17252	17258	17260	16889	16315	15885	15628	15697	16457	16579	16536	16405	16142	15994	15885	15699	15460	
SRev ST-Coal		262	354	338	343	351	358	344	340	356	631	650	657	657	652	647	644	654	601	357	191	196	182	184	186	164	175	191	169	174	174	179	181	173	174	211	172	189	161	194	180	180	200	185	175	180	122	135	186	
SRev CCGT-Gas		311	223	285	524	788	886	1021	1272	1559	1254	1119	1227	1136	1078	1045	1131	940	746	791	529	342	282	200	220	353	472	651	514	391	332	293	347	281	206	303	311	493	681	607	188	279	220	352	340	311	414	653	704	
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
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
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		928	1054	1054	1141	1141	1141	1141	1141	990	1141	1141	1141	1141	990	990	1040	1040	953	953	953	640	489	302	489	489	489	489	489	489	151	151	0	0	0	0	374	890	1128	953	374	187	187	187	500	500	500	500	500	
Hydro		298	308	214	161	162	162	160	159	292	161	160	160	159	154	286	286	241	142	100	100	230	328	434	546	453	454	458	456	436	649	523	569	485	520	673	812	361	179	76	435	558	603	670	596	773	785	792	640	
S.Reserve Total		1799	1939	1891	2169	2442	2547	2666	2912	3197	3187	3070	3185	3093	3025	2968	3051	2875	2529	2201	1773	1721	1432	1307	1254	1459	1590	1789	1628	1490	1306	1146	1097	939	900	1187	1669	1933	2149	1830	1177	1204	1210	1394	1611	1764	1821	2080	2030	