

Daily System Generation Summary on Friday

Friday, September 10, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,219 MW
Distillate	0 MW
Total TNB	2,219 MW
Total IPP	18,355 MW
Total Co-Gen	0 MW
Total System	23,131 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,493	5.49 %
Gas	37,038	10.43 %
Total TNB	56,531	15.92 %
ST-Coal	231,292	65.15 %
LSS	3,219	0.91 %
Gas	63,228	17.81 %
Total IPP	297,739	83.86 %
Co-Gen	1,232	0.35 %
Total Co-Gen	1,232	0.35 %
Total Generation	355,502	100.13 %
PLTG	1,158	0.33 %
HVDC	-697	-0.20 %
Interconnection	461	0.13 %
Net Energy	355,041	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	17,543 MW
TNB Generation	2,723 MW
IPP Generation	13,636 MW
Spinning Reserve	1,132 MW
Maximum Demand	16,433 MW
Net Energy	355,041 MWH
Load Factor	90.02 %

Fuel Cost

Total Cost:	55,269,048.76 RM
Cost per Unit	15.53 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	165
Hydro	452
Syncon	396
Thermal	291
Total	1,304

Time Weather Temperature

Afternoon	Hot	31
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	30
TJGS	110
Total TNB	140
CBPS	55
NPRI	162
PGLA	58
SGB3	61
Total IPP	337
Total Gas	476
Total Gas Required	476

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	14858	14283	13771	13348	13029	12768	12764	12848	13003	14464	15036	15442	15500	15295	15868	16302	16326	16113	15151	15256	16114	16021	15717	15626

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 6, 2021 10:54:26 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	649	650	585	574	502	500	455	450	450	451	398	401	369	352	351	352	457	569	602	651	692	691	691	689	700	691	692	694	689	695	693	689	691	691	692	690	667	652	694	689	691	691	693	691	691	692	690	658	
JMAH	U002	654	653	601	594	506	503	353	354	354	355	354	353	353	355	355	467	634	656	654	696	698	695	694	691	695	696	697	699	697	697	698	696	692	695	697	692	654	695	692	692	694	691	690	695	695	692	668		
JMHE	U001	949	897	905	900	900	854	854	849	849	799	800	798	803	803	802	799	801	802	904	952	976	983	979	977	975	977	978	982	983	979	978	978	975	982	977	981	975	982	981	982	978	977	978	982	986	979	980	982	
JMHE	U002	949	899	901	900	897	846	856	849	848	800	800	800	800	802	803	801	802	798	904	954	951	982	983	979	976	980	982	981	981	981	981	979	977	983	975	982	976	981	979	979	980	978	985	981	984	982	979	981	
JMJG	U001	657	662	662	663	667	671	668	677	674	682	673	671	675	671	671	672	672	672	673	678	672	672	672	672	674	672	672	674	671	671	674	672	631	668	676	673	677	670	672	672	671	666	677	668	668	668	672		
JMJG	U002	676	673	673	674	672	679	674	685	671	680	673	678	673	682	668	676	667	675	674	677	676	671	672	672	676	671	673	676	673	672	674	677	676	672	672	670	675	667	672	678	668	678	671	678	673	662	682	672	
JMJG	U003	668	667	671	669	671	668	666	666	669	668	677	666	670	668	673	668	666	668	673	668	668	667	667	666	667	670	666	671	662	665	663	668	666	666	667	669	667	668	662	668	663	666	677	656	667	663	666	667	
JMJG	U004	950	926	903	904	903	855	855	854	854	816	804	805	804	804	805	804	804	855	912	972	983	980	976	975	978	980	980	978	979	980	978	979	980	978	979	977	978	977	977	978	983	980	979	981	980	978			
JMJG	U005	890	890	890	890	890	850	848	848	849	797	801	804	798	801	799	799	801	801	891	895	889	895	890	890	889	890	890	890	892	891	891	889	889	889	889	889	888	887	890	892	889	890	892	888	890	891	892	885	892
PKLG	U005	269	269	267	292	269	302	270	269	269	271	267	267	269	268	270	244	268	271	269	284	311	313	311	314	269	271	267	267	281	347	453	480	467	467	404	396	378	407	451	468	466	451	456	363	284	264	267		
PKLG	U006	449	449	448	448	449	446	374	294	269	268	268	269	267	269	269	267	312	404	442	448	448	448	450	448	449	449	449	448	449	446	448	449	445	449	453	450	448	449	449	449	450	449	449	445	449	454	448		
TBIN	U001	647	647	573	565	495	493	397	398	399	399	349	351	351	349	348	349	349	464	499	498	520	537	620	647	630	595	529	517	539	620	659	687	685	687	686	668	599	483	513	564	690	687	685	686	687	688	687	648	
TBIN	U002	654	653	585	518	435	454	354	355	348	352	353	351	350	352	353	353	350	431	501	503	553	553	604	678	651	627	539	556	558	660	692	698	690	703	692	692	599	479	564	693	692	692	692	692	652	652	653	652	
TBIN	U004	954	915	901	902	899	856	855	855	851	853	854	852	853	852	853	852	851	853	900	950	982	984	982	980	983	983	982	983	985	982	985	983	983	983	983	984	984	984	982	982	983	985	984	984	982	983	980	983	
Total ST-Coal		10015	9850	9565	9493	9155	8977	8479	8403	8354	8189	8075	8066	8034	8027	8018	8018	8243	8843	9445	9709	9979	10075	10196	10281	10249	10147	9999	10017	10025	10222	10360	10499	10466	10507	10500	10429	10221	9913	10139	10365	10493	10505	10493	10492	10363	10270	10260	10168	
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	
CBPS	BLK2	362	365	365	356	362	364	375	365	368	364	364	363	362	361	367	362	365	365	356	354	357	360	360	362	362	361	361	364	359	366	363	365	362	362	362	359	358	365	362	362	356	360	361	359	365	365	361	361	
GLGR	GT01	94	96	96	96	94	94	97	94	95	96	95	96	98	95	95	94	96	95	95	94	95	95	95	95	95	94	96	95	95	95	109	109	109	94	95	95	95	95	95	94	95	96	96	96	97	94			
GLGR	ST1C	40	40	41	40	41	40	40	41	41	41	41	41	41	41	41	41	41	41	40	41	40	41	41	41	41	41	41	41	41	41	41	45	47	47	41	42	42	41	41	41	41	41	41	41	41	41	42		
NPRI	BLK1	502	515	515	503	509	502	525	510	512	513	515	516	514	515	515	515	509	508	511	510	512	515	503	508	506	511	514	515	510	514	515	514	506	515	505	515	513	514	502	510	518	510	518	511	517	516	516	514	
NPRI	BLK2	508	523	524	494	516	494	541	520	522	523	520	519	515	518	524	520	518	517	494	491	500	512	498	518	505	511	492	512	517	518	511	517	515	518	509	517	502	518	517	517	504	506	519	500	524	523	519	517	
PCGP	PGRG	591	607	610	591	601	591	624	604	605	604	600	600	602	602	606	601	603	603	591	589	597	600	599	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602	
PGLA	GT11	222	226	227	221	227	223	169	165	164	165	229	228	229	228	228	227	225	224	226	227	225	227	224	225	223	225	226	227	225	227	226	226	223	227	223	227	226	228	223	226	227	226	228	228	228	228	228		
PGLA	ST10	112	112	112	112	110	110	89	88	89	89	113	113	113	113	114	114	113	113	113	113	114	114	114	114	114	114	115	114	115	114	115	115	115	115	115	115	114	115	115	114	114	115	113	115	113	114	113		
SGB3	GT31	108	118	117	106	111	108	115	112	112	110	109	110	109	112	112	110	110	107	106	106	111	109	109	109	108	108	110	110	111	136	133	133	134	134	104	100	108	108	118	135	137	137	138	119	116	116	4		
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142	142	113	146	142	144	144	115	108	111	112	120	138	141	144	142	121	118	115
SGB3	GT33	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	141	141	137	139	139	120	117	117	114		
SGB3	ST34	136	88	66	66	66	65	65	66	66	64	64	64	64	64	64	66	66	66	66	65	65	65	65	65	65	63	66	142	142	134	150	149	149	149	149	134	134	197	205	218	216	216	217	201	200	200	162		
SPGP	BLK1	0	0	0	0	0	80	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	207	8	0	0	0	0	0	0	0	0	0	0	0	0	80	211	224	
SPGP	BLK2	716	719	719	716	720	717	718	716	717	716	714	715	716	716	718	717	719	716	712	712	712	712	715	715	712	714	716	716	716	716	714	716	717	716	712	717	715	717	716</										

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
KNYR	HY01	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
KNYR	HY02	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	93	96
KNYR	HY03	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	94	96
KNYR	HY04	97	97	97	97	73	60	97	96	96	84	73	70	73	81	97	97	97	97	97	97	97	97	97	97
LPIA	HY01	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	20	26	26	26	26	26	26	21	15
LPIA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	0	0	0	0	0	0	16	16
MNOR	HY01	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	4	4	4	4	0
PGAU	HY01	-1	19	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	-1	-1	21	-1	22	22	-1	-1	21	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	0	0	0	0
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	0	0	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	48	48	31	31	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	31	31	50	50	30	0	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	31	31	50	50	30	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	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	17	17	17	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	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	17	17	17	0
TMGR	HY01	-1	-1	-1	-1	-1	-1	64	-1	-1	-1	-1	-1	34	33	32	34	34	33	33	33	34	82	82	32
TMGR	HY02	45	73	62	43	61	44	88	82	83	73	58	59	61	68	88	81	68	82	41	43	46	43	44	71
TMGR	HY03	40	42	42	39	42	40	63	78	78	69	53	53	41	41	54	41	42	42	39	39	40	41	43	41
UJLI	HY01	86	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	85	84	88	90	90	91	86	88	85	88
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	109	88	94	-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
UPIA	HY02	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		688	655	624	597	598	563	671	791	683	651	638	616	608	610	664	644	631	818	799	799	784	808	877	893
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	3	6	6	13	19	22	24	25	26	28
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	7	9	13	14	19	17	30	26	27
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	12	18	20	26	30	32	29	32	30	27
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	9	8	13	25	33	31	19	29
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	11	20	23	27	36	36	45	38	48
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	10	20	27	17	20	23	27	25	41	50	50
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	8	12	17	24	19	35	39	46	49
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	17	16	23	32	35	31	39	37	41
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	3	6	10	11	12	15	13	15	14	19
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	10	17	27	31	21	15	29	35	37
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12	15	22	38	27	13	36	48	52
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	10	12	18	28	37	41	22	34	32
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	11	11	13	21	20	25	16	23	22
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	11	14	17	25	30	30	28	30
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	8	37	79	138	199	239	303	333	353	426	453	473
PCUF	CUFG	26	26	27	26	25	25	27	27	27	26	26	25	24	27	27	25	27	26	25	28	28	29	27	28
PCUF	CUFK	26	26	26	26	26	25	27	25	26	26	27	27	24	27	27	27	27	28	26	25	27	26	26	25
Total Co-Gen		52	52	53	52	51	50	54	52	53	52	54	53	54	52	54	53	52	56	54	54	54	53	51	52
Total Gen		14934	14629	14288	14052	13815	13582	13290	13205	13059	12846	12775	12730	12715	12713	12814	12748	12993	13836	14417	14720	15053	15266	15474	15623
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
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

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-PLTG		113	60	42	113	80	131	-23	83	66	43	43	-5	-13	-1	2	69	26	-20	-12	5	54	15	69	-3	73	11	21	30	-1	50	69	14	59	-13	89	117	127	100	123	96	81	39	50	77	9	50	33	78
Interconnection		83	31	12	84	51	102	-51	54	37	14	14	-35	-42	-30	-27	40	-3	-49	-40	-24	24	-14	39	-32	44	-18	-9	0	-29	22	39	-15	30	-42	59	87	97	70	94	67	52	10	22	49	-21	20	6	50
System Total		14858	14605	14283	13975	13771	13487	13348	13158	13029	12839	12768	12772	12764	12750	12848	12715	13003	13892	14464	14751	15036	15287	15442	15662	15500	15467	15295	15674	15868	16114	16302	16433	16326	16397	16113	15658	15151	14921	15256	16053	16114	16005	16021	15802	15717	15643	15626	15330
SRev ST-Coal		516	677	780	785	786	819	876	852	870	905	906	915	915	914	914	915	926	908	745	562	379	328	342	291	327	345	341	325	340	310	249	182	125	174	181	237	374	428	346	250	188	176	188	189	262	275	266	361
SRev CCGT-Gas		238	149	158	294	193	302	148	245	235	250	196	209	185	180	122	177	176	160	223	244	205	180	190	162	194	183	202	233	203	187	131	117	106	100	129	199	240	295	136	177	173	151	118	157	180	193	204	386
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		551	587	738	738	738	738	738	651	738	738	587	738	738	738	738	738	738	464	464	464	464	313	464	464	464	464	464	464	464	151	0	277	500	500	525	525	651	651	651	374	374	374	374	374	525	525	651	651
Hydro		304	301	181	208	207	242	134	101	122	154	318	189	209	195	146	166	179	266	335	335	350	477	382	339	309	340	355	341	286	363	806	557	508	507	539	397	245	180	323	299	534	570	568	515	261	264	224	223
S.Reserve Total		1609	1714	1857	2037	1936	2101	1907	1849	1965	2047	2007	2051	2047	2027	1920	1996	2019	1798	1767	1605	1398	1298	1378	1283	1321	1359	1389	1390	1293	1011	1186	1133	1239	1281	1374	1358	1510	1554	1456	1100	1269	1271	1248	1235	1228	1257	1345	1621