

Daily System Generation Summary on Thursday

Thursday, November 11, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,497 MW
Distillate	0 MW
Total TNB	2,497 MW
Total IPP	14,206 MW
Total Co-Gen	0 MW
Total System	18,963 MW

Generation Mix

Type	MWh	Percentage
Hydro	28,814	7.99 %
Gas	36,495	10.13 %
Total TNB	65,309	18.12 %
ST-Coal	165,208	45.84 %
ST-Gas	102	0.03 %
ST-Oil	7,952	2.21 %
LSS	2,361	0.66 %
Distillate	5,913	1.64 %
Gas	110,935	30.78 %
Total IPP	292,471	81.15 %
Co-Gen	1,280	0.36 %
Total Co-Gen	1,280	0.36 %
Total Generation	359,060	99.62 %
PLTG	-659	-0.18 %
HVDC	-703	-0.20 %
Interconnection	-1,362	-0.38 %
Net Energy	360,422	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	18,470 MW
TNB Generation	3,351 MW
IPP Generation	13,506 MW
Spinning Reserve	1,560 MW
Maximum Demand	16,959 MW
Net Energy	360,422 MWH
Load Factor	88.55 %

Fuel Cost

Total Cost:	78,519,759.17 RM
Cost per Unit	21.68 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,076
Hydro	399
Syncon	310
Thermal	107
Total	1,892

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	24

Gas Usage

Station	(mmscfd)
GLGR	45
PGPS	38
TJGS	89
Total TNB	172
CBPS	45
KLPP	86
NPRI	134
PGLA	97
PKLG	1
PLPS	68
SGB3	67
SGRI	73
SKSP	45
Total IPP	616
Total Gas	787

Alternate Fuel Usage

Station	(mmscfd)
PLPS	22
SGB3	1
SGRI	51
PKLG	79
Total	153

Total Gas Required 941

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	14074	13512	13097	12748	12538	12451	12706	13072	13492	15129	15762	16194	16065	16024	16486	16945	16941	16592	16127	16281	16503	16162	15611	15195

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, December 6, 2021 6:48:37 PM

(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	U002	708	705	706	708	697	654	656	654	653	604	605	605	658	704	706	714	704	705	707	703	516	619	708	707	702	701	705	706	704	709	702	717	699	711	698	702	705	702	700	699	703	706	704	703	705	703	703	704		
JMHE	U001	925	902	884	848	848	852	848	849	849	831	800	799	802	796	803	796	805	942	979	979	978	979	980	978	977	979	979	985	982	982	984	982	980	981	977	982	980	984	976	979	983	981	978	982	977	980	978	981		
JMHE	U002	914	905	884	846	851	850	850	852	848	799	800	798	800	796	801	798	801	952	979	980	978	981	980	979	977	980	981	984	981	983	981	983	978	980	976	981	981	981	979	978	979	979	976	984	975	978	979	977		
JMJG	U002	673	674	672	677	679	680	679	678	680	679	679	677	679	678	682	673	677	681	674	678	674	679	678	679	685	679	677	675	678	678	677	677	681	678	678	674	676	678	678	678	667	674	671	674	671	671	673	672		
JMJG	U005	892	891	884	847	850	848	849	852	853	796	807	803	801	800	803	800	822	892	892	891	891	892	890	890	890	891	891	890	894	890	890	892	892	891	891	892	895	891	890	895	891	886	892	887	888	891	892			
PKLG	U003	279	280	277	279	278	279	281	275	278	277	280	277	278	276	275	270	273	276	276	275	276	277	276	274	279	276	276	277	275	276	278	276	277	281	277	279	279	278	277	275	268	271	270	272	273	272	276	279		
PKLG	U004	275	274	270	274	272	271	271	272	270	273	276	273	276	271	271	261	270	271	273	271	274	272	275	271	275	274	271	274	275	273	277	275	274	275	274	274	274	275	276	273	264	264	265	265	265	262	268	270	272	
PKLG	U005	469	465	472	470	439	349	270	265	269	270	268	269	269	269	277	339	441	474	465	465	469	457	467	466	473	472	464	466	466	469	471	466	468	466	468	466	468	463	464	468	468	465	471	469	454	467	462	470	462	
PKLG	U006	449	445	450	450	450	449	446	445	450	446	446	447	445	448	446	446	449	446	443	442	446	449	443	442	448	450	448	444	447	447	444	447	444	447	448	447	448	447	448	449	449	448	450	449	448	449	454			
TBIN	U002	700	705	702	700	690	653	653	652	652	604	604	603	603	652	701	700	702	700	700	700	698	699	702	699	699	699	699	702	698	702	695	698	702	699	699	699	699	699	701	700	700	700	700	700	700	701	699	699	701	701
TBIN	U003	702	699	699	701	698	654	653	654	653	602	603	602	602	653	682	700	697	699	699	699	696	700	700	696	699	701	699	699	699	700	697	698	699	700	700	700	700	700	700	705	694	700	700	730	695	702	702	700	699	
Total ST-Coal		6986	6945	6900	6800	6752	6539	6456	6448	6455	6181	6168	6153	6213	6343	6447	6497	6641	7038	7083	7087	6893	6997	7102	7088	7099	7093	7090	7109	7096	7110	7097	7114	7092	7112	7083	7097	7098	7104	7096	7072	7073	7087	7097	7072	7067	7071	7090	7093		
PKLG	U001	237	237	237	237	182	145	145	145	145	145	145	145	145	145	145	145	145	144	144	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145				
PKLG	U002	0	0	113	144	146	147	146	150	151	151	151	154	151	151	151	146	147	146	146	146	190	225	226	226	226	226	226	226	226	226	225	188	188	188	188	188	188	188	188	188	188	226	226	226	226	226	226	226		
Total ST-Oil		237	237	350	381	328	292	291	295	296	296	299	296	296	296	291	292	291	290	290	291	335	370	371	371	371	371	371	371	371	371	371	370	333	333	333	333	333	333	333	371	371	371	371	371	371	371	371			
PKLG	U002	86	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		86	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	215	214	218	213	209	225	219	220	218	223	220	223	243	230	228	221	230	237	269	216	369	363	362	359	360	361	361	360	360	360	358	361	361	361	358	351	358	247	239	363	367	358	358	362	221	215	222	272	221	
EMPP	BLK2	770	768	770	769	768	507	510	284	199	335	340	341	344	342	344	340	344	347	347	345	345	359	364	362	361	361	360	360	360	754	757	754	757	754	756	758	758	757	757	760	761	763	763	764	767	765	196	0		
GLGR	GT01	69	69	68	68	67	68	67	67	68	68	68	68	69	69	68	67	69	69	69	68	67	68	69	67	68	67	69	70	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69		
GLGR	GT02	68	68	68	68	68	68	68	68	68	68	68	68	69	68	69	68	68	67	68	68	68	68	68	68	68	68	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68		
GLGR	ST1C	71	72	71	71	71	71	71	71	71	71	71	71	71	71	72	71	71	72	72	71	72	72	71	71	72	72	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71		
KLPP	GT13	106	105	102	102	100	106	105	106	106	106	105	105	108	106	106	105	106	106	106	106	106	105	106	108	106	106	107	109	106	108	108	108	108	109	104	108	108	112	112	108	108	108	108	108	105	108	108	108		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	142	116	112	116	117	112	113	116	117	116	115	116	116	115	116	111	111	111	111	116	117	115	111	111	111	111	111	111	111	112	111	
KLPP	GT15	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	90		
KLPP	ST17	130	130	130	129	129	130	130	130	130	130	130	130	130	129	130	131	131	125	199	195	193	194	195	193	193	193	194	194	200	193	193	193	194	190	192	191	195	196	194	192	192	192	192	192	192	193	193	190		
NPRI	BLK1	322	324	318	319	313	331	326	331	325	327	323	328	334	333	331	325	334	327	333	442	518	518	514	516	512	517	517	520	516	520	515	515	517	518	498	516	513	454	518	516	517	512	509	512	436	326	434	448		
NPRI	BLK2	322	322	318	319	313	331	326	331	323	330	324	329	335	337	335	329	337	333	442	519	518	518	518	517	517	520	519	518	523	520	519	520	521	482	500	516	472	523	519	520	514	511	396	324	331	404	334			
PCGP	PGRG	260	263	262	261	262	261	261	262	261	261	263	264	265	261	261	263	400	602	595	601	604	604	605	595	601	603	607	603	600	605	603	604	606	581	601	598	613	608	602	604	598	594	598	588	597	595	603			
PGLA	GT11	166	167	165	165	162	169	168	169	166	168	166	169	170	169	170	167	170	170	170	166	187	171	169	168	166	168	169	169	215	214	215	216	216	216	210	169	168	171	169	169	168	167	167	167	164	168	167	168		
PGLA	GT12	170	171	169	169	167	174	172	173	170	173	172																																							

Daily MW Generation on Thursday

[illegible]

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				
SGRI	GT11		105	105	105	104	104	108	106	105	106	105	105	106	109	109	109	105	110	109	110	105	110	107	107	111	103	107	110	109	109	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	GT23		111	110	107	107	107	111	111	111	111	111	111	111	114	114	111	111	114	113	113	110	113	112	113	114	111	111	115	115	111	111	111	111	111	111	111	111	110	110	110	110	110	110	110	40	0	0	0	0	0		
Total Distillate			447	446	331	330	330	338	336	335	337	335	336	337	343	343	339	335	343	341	343	331	342	338	339	344	331	337	344	343	340	338	111	111	111	111	111	111	111	110	110	110	110	110	110	110	40	0	0	0	0	0	
BDLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3	6	11	17	22	21	19	21	22	14	17	18	15	12	9	7	5	2	1	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	4	6	6	7	7	9	10	11	8	12	12	14	14	9	5	4	3	3	1	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	1	3	4	6	14	25	16	24	24	26	22	20	13	15	15	12	10	8	7	5	2	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	2	2	7	12	19	27	43	47	35	28	30	13	15	37	35	26	16	4	18	5	2	1	1	1	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	2	3	7	12	13	20	24	24	26	23	19	13	16	16	16	16	16	16	16	16	16	16	16	16	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	3	4	4	4	6	9	15	17	24	22	22	22	18	16	20	19	16	14	10	7	4	1	0	0	0	0	0	0	0	0	0	0	0	0	
JELS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	7	16	15	12	16	13	11	11	9	8	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	
JLSL	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	12	20	21	37	47	34	45	35	20	37	43	44	37	24	28	26	8	7	1	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	2	4	6	10	19	34	25	31	30	34	33	25	18	15	23	13	10	10	6	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
KRLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	8	14	17	21	21	28	23	17	11	15	13	12	12	13	13	14	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
MCLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	10	21	29	50	33	28	26	34	33	25	12	10	9	4	9	6	3	0	0	0	0	0	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	1	3	7	14	13	23	30	32	49	51	52	37	24	44	37	35	27	21	15	8	4	3	1	0	0	0	0	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	1	4	6	8	12	19	22	21	21	20	22	20	20	23	29	22	18	14	12	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
STLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	9	14	15	16	18	21	20	17	12	10	7	7	6	6	5	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TBLS	LSS1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	10	7	4	6	8	14	24	20	30	27	28	30	23	13	10	8	5	6	4	2	0	0	0	0	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	4	29	49	85	113	178	278	327	389	387	378	343	309	315	319	299	238	205	158	142	89	50	24	17	1	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG		27	27	27	27	27	27	29	29	27	29	28	29	28	27	27	29	28	27	28	28	28	29	29	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28		
PCUF	CUFK		24	26	24	25	27	28	26	28	27	26	25	26	26	26	26	25	26	26	23	26	25	24	26	25	26	26	27	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
Total Co-Gen			51	53	51	52	54	55	53	57	56	53	54	54	55	54	53	52	55	54	50	54	53	52	55	53	54	55	56	54	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
Total Gen			14017	13714	13412	13286	13063	12855	12693	12556	12452	12450	12395	12461	12651	12925	13014	13036	13428	14522	15017	15415	15651	15928	16110	16194	16062	15907	15951	16191	16415	16807	16888	16860	16886	16910	16556	16465	16136	16074	16292	16544	16470	16322	16142	16017	15577	15356	15135	14823			
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	0	0		
TIE-HVDC			-28	-30	-30	-29	-29	-28	-28	-30	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29			
TIE-PLTG			-26	-43	-67	-10	-1	-61	-24	-101	-53	-49	-23	-29	-21	-7	-26	33	-31	-40	-78	-73	-79	-55	-52	-33	30	-51	-41	-64	-39	-3	-24	-23	-22	-18	-4	-8	41	20	44	0	0	-45	13	-40	-1	-26	-27	-80			
Interconnection			-54	-73	-97	-39	-31	-89	-52	-131	-83	-80	-53	-59	-52	-37	-55	4	-60	-70	-108	-102	-108	-83	-81	-62	0	-79	-70	-94	-68	-31	-53	-52	-51	-46	-33	-37	12	-10	14	-30	-30	-74	-16	-69	-30	-56	-57	-108			
System Total			14074	13790	13512	13328	13097	12947	12748	12690	12538	12533	12451	12523	12706	12965	13072	13036	13492	14596	15129	15520	15762	16014	16194	16259	16065	15989	16024	16288	16486	16842	16945	16916	16941	16959	16592	16505	16127	16087	16281	16577	16503	16400	16162	16090	15611	15415	15195	14934			
SRev ST-Coal			179	220	233	259	304	450	450	456	449	571	556	571	538	467	384	385	334	131	86	82	134	160	75	89	78	84	87	68	81	67	80	63	85	65	94	80	79	73	81	105	104	90	120	105	110	106	87	64			
SRev CCGT-Gas			2006	2298	2338	2425	2431	2255	2319	2305	2335	2333	2339	2375	2261	2283	2293	2322	2233	1769	1668	1391	971	916	934	917	981	1084	1066	902	789	809	808	785	768	748	974	1006	1097	1157	1122	865	1009	1121	1169	1191	1408	1420	1294	1321			
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-Oil			43	43	79	81	79	77	77	77	77	77	77	77	76	76	77	77	39	40	40	39	41	44	44	-1	-1	-1	-1	-1	-1	-1	-1	0	12	12	12	12	12	12	4	-1	-1	-1	-1	-1	-1	-1	-1				
SRev ST-Gas			35	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 Distillate			119	120	92	93	93	85	87	88	86	88	87	86	80	80	84	88	80	82	80	92	81	85	84	79	92	86	79	80	83	85	29	29																			