

Daily System Generation Summary on Friday

Friday, December 10, 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	15,864 MW
Total Co-Gen	0 MW
Total System	21,078 MW

Generation Mix

Type	MWh	Percentage
Hydro	12,686	3.50 %
Gas	36,864	10.17 %
Total TNB	49,550	13.67 %
ST-Coal	197,900	54.59 %
LSS	2,847	0.79 %
Gas	111,156	30.66 %
Total IPP	311,903	86.04 %
Co-Gen	1,145	0.32 %
Total Co-Gen	1,145	0.32 %
Total Generation	362,598	100.03 %
PLTG	789	0.22 %
HVDC	-698	-0.19 %
Interconnection	91	0.03 %
Net Energy	362,507	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	18,395 MW
TNB Generation	3,074 MW
IPP Generation	13,942 MW
Spinning Reserve	1,327 MW
Maximum Demand	17,065 MW
Net Energy	362,507 MWH
Load Factor	88.51 %

Fuel Cost

Total Cost:	75,481,463.47 RM
Cost per Unit	0.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	199
Hydro	357
Syncon	692
Thermal	532
Total	1,780

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	23

Gas Usage

Station	(mmscfd)
GLGR	40
TJGS	101
Total TNB	141
CBPS	52
NPRI	128
PGLA	107
PLPS	60
Total IPP	347
Total Gas	489
Total Gas Required	489

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	14997	14247	13993	13355	13002	12870	13026	13025	13449	14954	15712	16190	16161	16018	16381	16863	16880	16577	15760	15918	16205	15922	15329	15106

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, January 3, 2022 12:38:30 PM Head
Grid System Operator
(Ir. Shanmugam Thoppalan)

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	503	452	452	454	456	407	402	354	352	355	353	354	352	353	353	434	454	455	556	557	695	696	687	603	556	559	606	695	696	696	696	696	697	654	602	604	504	635	694	698	661	655	604	555	552	553	554		
JMAH	U002	503	450	454	453	454	401	404	352	353	353	352	354	353	351	354	353	423	455	455	506	556	691	695	688	604	556	555	603	693	696	697	695	696	696	652	600	604	502	618	693	695	677	652	604	554	541	554	556	
JMHE	U001	976	977	959	894	850	857	847	850	846	852	846	851	850	844	847	849	847	934	972	962	977	978	978	973	973	975	978	977	974	973	969	970	967	972	972	968	971	978	974	975	973	977	972	973	975	968	973	946	
JMHE	U002	978	975	959	895	849	858	849	849	847	851	849	853	850	845	848	849	848	967	978	976	981	978	979	976	979	980	979	981	978	979	979	975	975	978	974	973	978	983	980	980	979	982	982	977	978	972	982	944	
JMJG	U001	442	427	409	405	408	406	411	410	410	404	405	415	405	406	407	410	440	525	612	672	672	666	671	671	671	668	671	674	672	672	662	645	621	623	629	619	600	597	598	596	596	599	593	598	596	596	596		
JMJG	U002	447	416	409	408	413	409	407	409	409	412	409	411	447	502	507	509	507	506	575	681	671	671	673	673	674	673	673	672	673	674	664	645	626	624	629	623	592	599	596	598	595	600	600	598	596	604	604	604	
JMJG	U003	460	412	412	409	410	411	409	414	413	414	408	413	411	413	414	415	437	512	596	670	671	672	670	671	671	670	667	673	664	675	658	640	623	625	629	615	596	598	597	592	596	594	593	595	596	601	601	601	
JMJG	U004	976	975	972	914	856	854	850	854	853	854	851	852	853	852	849	853	853	891	950	976	977	975	975	975	977	977	974	975	976	976	976	976	974	968	972	972	974	974	974	973	976	977	977	973	973	973	973		
JMJG	U005	889	892	681	699	703	801	803	855	852	849	851	850	850	852	849	854	853	895	894	892	889	894	894	892	890	892	892	895	891	892	890	892	890	889	890	891	892	892	895	890	892	890	892	894	892	892	892		
PKLG	U003	154	156	160	152	152	152	152	154	153	154	155	155	152	155	153	154	154	154	153	152	153	154	157	153	151	152	155	155	154	152	154	153	155	154	153	153	155	155	153	152	152	150	151	153	155	155	155	155	
PKLG	U006	268	270	267	269	269	271	270	270	269	269	269	270	268	268	270	267	268	269	269	270	267	268	268	269	269	268	269	269	267	269	272	271	269	270	271	268	267	271	268	269	270	269	268	268	269	269	268	269	
TBIN	U001	497	449	449	450	399	359	349	350	297	298	300	300	300	344	351	349	348	404	401	401	401	400	507	556	552	550	549	549	603	599	650	650	686	687	645	581	549	501	554	548	549	509	499	449	436	401	379	353	
TBIN	U002	502	460	453	453	401	368	353	352	299	302	303	303	302	340	353	353	352	406	402	403	403	405	504	554	552	556	551	551	602	603	651	651	694	696	647	583	535	501	551	552	552	538	498	448	452	405	395	354	
TBIN	U003	499	453	453	453	398	402	404	351	300	302	302	304	301	351	352	352	351	412	402	404	404	402	509	556	551	551	551	551	601	602	655	651	690	691	649	601	549	493	550	554	552	533	499	450	439	404	390	354	
Total ST-Coal		8094	7764	7489	7308	7018	6956	6910	6824	6653	6669	6653	6685	6696	6875	6907	6920	7115	7784	8114	8521	8579	8849	9176	9294	9117	9020	9026	9130	9442	9458	9573	9506	9564	9576	9362	9049	8864	8548	8943	9067	9072	8951	8834	8581	8474	8333	8315	8151	
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	354	365	348	362	364	364	349	357	341	333	332	217	216	303	214	218	261	358	359	357	359	359	354	349	356	361	355	362	354	361	361	353	346	358	346	347	358	365	354	361	353	360	360	354	353	359	360	355	
EMPP	BLK1	608	619	619	620	619	619	616	624	627	626	625	629	610	612	610	612	324	326	326	326	326	325	325	326	327	326	325	326	325	326	325	327	325	325	325	326	326	325	326	326	324	327	325	326	325	328	324	326	
EMPP	BLK2	766	763	767	766	764	764	768	766	767	767	767	769	767	769	770	767	767	766	766	764	764	761	761	760	761	758	758	759	765	762	764	763	764	763	768	770	768	767	768	767	769	770	769	771	770	771	770	768	
EMPP	BLK3	743	741	744	744	741	742	744	741	744	744	746	745	747	748	749	747	748	745	745	745	743	739	737	732	735	731	735	736	741	740	741	739	742	740	744	746	745	745	747	746	747	709	711	749	748	747	746	748	
GLGR	GT01	84	66	68	80	80	82	94	94	94	94	95	96	94	94	95	97	94	96	94	108	110	111	109	108	107	109	109	109	108	108	108	108	107	108	107	108	106	107	106	108	108	107	107	108	108	107	108	107	
GLGR	GT02	84	65	68	60	60	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	51	85	109	107	107	107	109	107	107	108	108	108	107	107	107		
GLGR	ST1C	82	74	71	71	71	72	40	41	41	40	40	40	40	40	41	40	40	41	40	44	46	47	46	45	46	47	47	46	47	47	47	46	46	43	38	94	97	97	96	97	97	97	96	96	96	96	97	96	
NPRI	BLK1	503	515	505	507	515	520	499	511	505	497	491	509	514	500	503	514	496	514	512	507	515	514	500	499	506	516	509	515	503	515	511	505	496	514	494	495	507	527	509	517	509	512	514	509	502	509	509	509	
NPRI	BLK2	517	530	517	518	527	531	511	524	509	500	494	510	518	500	386	400	497	515	514	510	518	517	505	502	508	518	512	518	507	520	513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCGP	PGRG	587	613	587	597	603	607	582	600	589	580	570	592	603	584	587	602	578	600	597	592	602	603	583	581	591	604	591	605	589	604	596	587	576	599	573	577	594	619	595	603	592	602	574	565	556	560	564	564	
PGLA	GT11	214	175	182	184	219	174	165	169	166	164	161	168	171	165	167	170	203	216	215	214	215	214	216	210	206	211	214	182	186	182	214	212	208	215	208	209	187	174	216	219	216	218	219	217	214	215	217	215	
PGLA	GT12	218	179	187	189	222	178	168	174	170	168	165	172	174	170	171	176	207	221	219	218	221	220	214	218	215	218	186	190	186	219	218	216	212	219	212	212	192	179	221	223	221	223	222	220	218	220	220	220	
PGLA	ST10	237	204	213	215	228	215	202	205	205	201	200	203	204	204	203	205	216	235	239	238	239	241	240	239	242	244	216	219	217	240	239	237	235	238	235	233	216	207	237	238	236	235	237	237	235	240	236	237	
PLPS	GT11	130	130	130	130	130	130	130	129	130	129	130	130	130																																				

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	
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	123	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
KNRG	HY01	21	22	21	21	21	22	21	21	21	21	21	21	21	21	21	0	0	0	0	0	33	33	33	33	33
KNRG	HY02	21	22	21	21	22	22	21	21	21	21	21	21	21	21	21	0	0	0	0	35	35	35	35	35	35
KNRG	HY03	21	22	21	21	22	22	20	21	21	20	20	21	21	20	21	20	21	22	21	34	34	34	34	34	34
KNYR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	55	58	-1	-1	-1	-1	-1	-1
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	97	101	57	59	62	59	56	57	59	55	54	54	58	57	55	59	55	56	58	58	58	58	58	58	58
LPIA	HY01	22	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	20	20
LPIA	HY02	22	22	22	22	22	22	22	22	22	22	22	22	23	22	23	22	23	22	23	23	23	23	22	20	20
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	19	149	109	109	109	21	-1	-1	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	112	111	111	20	0	0	0	0
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	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	30	30	48	31	31	31	31	31	31
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	30	30	31	31	31	31	31
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	30	30	31	31	31	31	31
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	17	17	17	17	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	17	17
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	81	81	81	82	82	82	34	33
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	86	87	86	87	87	87	86	86	86
TMGR	HY03	39	82	39	42	81	69	37	41	40	38	36	40	79	40	38	63	36	43	42	39	78	52	38	40	40
TMGR	HY04	30	33	30	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	93	88	82	78	-1	-1	-1	-1	87
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	86	80	91	78	-1	-1	-1	-1	-1
UPIA	HY01	5	5	5	5	5	6	6	5	5	5	5	5	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	5
Total Hydro		338	415	298	272	317	303	264	269	270	264	259	287	308	267	265	295	326	335	356	351	492	487	451	454	454
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	9	14	17	18	20	22
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	7	14	19	11	31	29	31
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	18	21	26	28	32	29
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	20	29	19	15	38	40
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	6	5	3	18	21	28	14
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	12	20	27	33	38	43	49	22
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	10	16	13	15	14	14
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	21	24	22	32	31	37
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	11	18	24	31	31	40	31	42
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	8	11	14	21	26	25	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	5	26	21	43	32	49	42
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	9	18	25	33	35	35
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	17	23	27	32	34	40
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	2	5	5	20	19	12
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	1	8	30	7	6	11	2

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	0	0	0	0	0	0	0	0	0
PCUF	CUFG	28	28	28	29	28	30	27	29	28	28	28	27	29	28	28	28	28	28	28	29	27	29	27	28
PCUF	CUFK	25	23	24	24	24	25	23	25	25	24	24	25	25	24	24	0	1	2	1	2	2	2	2	2
Total Co-Gen		53	51	52	53	52	55	50	54	53	52	52	52	52	52	53	54	52	29	30	30	29	30	30	31
Total Gen		15068	14730	14297	14135	13991	13757	13371	13266	13040	12980	12928	12981	13027	13178	13022	13130	13460	14497	14916	15415	15652	15974	16250	16390
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		-30	-29	-29	-29	-29	-28	-28	-29	-29	-28	-28	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29
TIE-PLTG		100	58	79	73	27	-42	45	-4	67	52	88	33	30	49	27	-6	41	-19	-9	24	-31	-12	90	36
Interconnection		71	29	50	44	-2	-70	16	-33	38	22	58	4	1	19	-3	-36	11	-48	-38	-5	-60	-41	60	7
System Total		14997	14701	14247	14091	13993	13827	13355	13299	13002	12958	12870	12977	13026	13159	13025	13166	13449	14545	14954	15420	15712	16015	16190	16383
SRev ST-Coal		710	709	769	926	927	830	828	965	969	972	969	968	972	967	968	826	736	562	556	434	422	447	558	562
SRev CCGT-Gas		251	343	389	346	242	399	544	575	637	703	736	742	715	706	891	838	491	174	184	167	127	127	216	224
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	-1	0	-1
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
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
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
Syncon		940	789	940	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	940	789	940	940	853	853	853
Hydro		200	274	240	179	134	148	187	182	181	187	192	315	143	184	186	156	225	216	195	200	147	303	188	185
S.Reserve Total		2101	2115	2338	2478	2330	2404	2586	2749	2814	2889	2924	2901	2857	2885	3076	2988	2711	2243	2142	1956	1769	1653	1765	1796