

Daily System Generation Summary on Friday

Friday, March 12, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,186 MW
Distillate	0 MW
Total TNB	2,186 MW
Total IPP	17,608 MW
Total Co-Gen	0 MW
Total System	22,991 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,669	2.91 %
Gas	43,688	11.91 %
Total TNB	54,357	14.82 %
ST-Coal	241,551	65.84 %
LSS	2,256	0.61 %
Gas	69,229	18.87 %
Total IPP	313,036	85.32 %
Co-Gen	278	0.08 %
Total Co-Gen	278	0.08 %
Total Generation	367,671	100.22 %
PLTG	87	0.02 %
EGAT	-15	0.00 %
HVDC	719	0.20 %
Interconnection	791	0.22 %
Net Energy	366,880	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	18,392 MW
TNB Generation	2,710 MW
IPP Generation	14,199 MW
Spinning Reserve	1,467 MW
Maximum Demand	17,017 MW
Net Energy	366,880 MWH
Load Factor	89.83 %

Fuel Cost

Total Cost:	47,179,163.09 RM
Cost per Unit	12.83 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	384
Hydro	274
Syncon	694
Thermal	190
Total	1,542

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	58
TJGS	144
Total TNB	201
CBPS	47
NPRI	130
PGLA	99
PLPS	49
YPKA	21
Total IPP	347
Total Gas	548
Total Gas Required	548

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	15709	14835	14325	13904	13511	13254	13273	13431	13656	15101	15839	16413	16421	16081	16524	17003	16982	16476	15408	15315	16277	16058	15583	15351

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:44:14 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	692	698	692	691	693	691	692	692	691	693	692	690	691	690	693	691	693	692	689	690	691	693	692	691	692	692	693	693	691	689	692	691	690																
JMAH	U002	696	694	695	694	695	693	697	696	694	695	694	696	698	696	695	692	693	688	694	695	690	696	697	694	695	690	695	695	698	695	696	695	695																
JMHE	U001	982	983	975	904	901	900	898	852	848	854	848	852	849	852	850	847	854	847	850	982	982	973	982	982	981	972	977	981	983	976	976	982	977	984	975	979	975	980	984	978	982	983	979	979	979	981	979	980	
JMHE	U002	981	981	977	906	901	902	901	848	849	848	849	851	848	850	847	847	855	848	848	982	985	973	982	981	982	975	981	983	985	975	979	983	979	985	977	981	976	980	984	978	983	981	979	979	979	980	979	978	
JMJG	U001	667	647	646	653	653	625	625	626	629	629	629	624	625	629	626	623	643	666	668	676	675	671	672	675	670	673	677	677	668	672	668	670	672	673	670	673	672	673	672	672	670	672	672	676	672	672	676		
JMJG	U002	659	644	651	654	645	623	629	634	629	626	632	623	626	634	623	623	640	672	675	672	678	673	671	668	668	675	676	671	677	672	675	669	672	672	670	672	671	672	676	670	672	671	674	671	676	667	677	677	
JMJG	U003	658	645	645	643	645	623	623	625	625	623	626	625	625	623	623	624	637	665	677	670	668	670	667	669	669	673	666	666	672	669	667	663	671	671	671	671	670	667	666	670	668	671	670	672	672	669	675		
JMJG	U004	969	972	971	911	902	881	854	854	854	854	852	854	855	854	856	854	855	862	919	977	979	981	978	977	974	973	976	975	978	976	976	976	975	975	972	974	974	976	977	975	976	977	974	976	976	977	978	976	
JMJG	U005	800	804	799	799	801	803	801	800	803	804	803	800	801	803	800	801	801	801	798	801	804	798	800	801	799	799	799	806	806	795	797	804	804	804	804	854	904	925	856	812	803	800	806	800	800	797	798	801	
PKLG	U003	281	279	276	278	278	276	276	278	278	278	279	279	278	281	280	280	278	279	277	278	277	278	278	279	277	276	278	278	276	279	279	278	279	280	278	280	280	278	280	280	275	278	279	279	278	279	278	279	279
PKLG	U004	278	278	277	278	278	275	276	276	276	278	277	278	278	278	277	275	275	275	276	279	279	275	270	278	279	278	281	271	277	279	277	276	278	278	278	279	280	280	277	278	279	284	281	280	276	277	277		
PKLG	U006	445	449	449	448	449	445	447	449	449	446	446	450	446	447	449	450	446	448	448	449	449	450	448	448	449	451	446	448	449	446	449	449	446	449	449	448	449	450	446	449	450	447	449	448	447	448	448	449	
TBIN	U001	691	690	691	690	692	691	690	689	689	690	691	690	690	690	690	692	691	689	690	692	690	687	690	689	689	689	685	690	689	689	689	690	689	690	691	690	689	689	690	689	689	690	689	690	689	689	690	689	
TBIN	U002	693	692	691	693	690	693	689	689	693	689	687	693	691	690	694	693	693	692	692	692	691	693	690	691	693	689	693	692	694	690	692	691	689	694	690	692	690	690	695	694	690	691	694	693	690	691	691	692	
TBIN	U003	690	688	690	689	689	690	690	689	689	692	689	693	690	690	689	689	690	692	690	689	689	689	689	689	689	689	689	689	689	689	689	689	690	690	690	687	688	693	689	686	691	689	689	691	688	689	690		
Total ST-Coal		10182	10144	10125	9931	9912	9811	9788	9696	9696	9700	9693	9698	9692	9703	9694	9687	9750	9813	9892	10222	10224	10202	10219	10212	10200	10199	10222	10218	10224	10187	10197	10219	10205	10225	10206	10269	10302	10339	10273	10216	10216	10211	110225	10211	110220	10207	10208	10224	
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	0	
CBPS	BLK2	332	255	248	224	224	224	224	224	224	225	224	223	225	217	213	230	223	362	359	355	361	357	360	354	355	361	351	360	363	366	359	362	366	354	219	204	216	232	323	357	357	356	365	355	365	362	357	357	
EMPP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	376	740	748	755	759	758	757	753	751	753	753	754	753	754	753	764	768	761	323	81	16	16	0	0	0	0	0	0	0	
EMPP	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	71	107	136	166	164	164	73	106	106	107	107	106	109		
GLGR	GT01	109	109	108	109	109	109	107	109	109	109	110	109	110	108	108	110	110	108	109	109	107	109	108	109	108	107	108	109	109	106	109	107	110	108	109	108	109	111	110	110	109	109	108	108	109	107	107	107	
GLGR	GT02	106	106	106	107	106	106	106	107	106	106	106	107	107	106	107	107	107	107	107	107	105	106	106	106	106	105	104	106	105	106	107	107	107	107	107	107	107	107	107	107	107	107	108	108	108	108	108		
GLGR	ST1C	97	97	97	96	97	97	97	97	97	96	96	96	96	96	96	96	96	96	96	96	97	98	97	97	97	98	96	97	98	98	97	97	96	96	96	96	96	97	98	96	95	96	96	96	96	96	96		
NPRI	BLK1	515	476	515	476	382	319	320	320	320	321	320	319	320	320	320	319	430	514	515	515	515	507	514	503	509	513	513	515	518	514	514	511	518	499	505	513	515	515	514	515	514	512	515	515	515	515	516		
NPRI	BLK2	400	371	358	370	371	309	309	313	310	311	311	311	312	303	298	326	404	401	397	394	389	393	401	389	395	400	382	401	401	398	400	395	404	384	389	374	391	403	398	400	394	394	399	389	407	400	391		
PCGP	PGRG	603	604	590	602	604	601	451	273	275	270	269	270	269	273	271	269	281	608	600	595	597	590	591	606	585	594	602	590	603	604	602	605	597	608	583	473	269	184	185	603	603	593	593	602	589	609	601	591	
PGLA	GT11	170	170	167	170	171	170	171	171	169	171	170	171	168	166	171	172	169	168	167	182	166	169	165	167	168	165	168	205	223	222	222	222	207	166	161	166	170	169	223	220	204	170	166	171	170	0			
PGLA	GT12	173	173	170	173	175	174	172	174	174	173	174	173	174	174	171	169	175	174	172	171	187	169	173	167	170	172	170	172	209	226	226	225	226	210	167	163	169	175	173	226	224	206	173	170	174	174	173		
PGLA	ST10	205	206	206	206	206	206	206	207	206	206	206	207	207	206	206	206	208	208	207	205	219	205	208	205	208	208	207	207	235	251	251	249	250	248	203	204	204	207	208	241	242	239	207	204	207	112	83		
PLPS	GT11	144	129	128	129	129	129	129	128	128	129	128	129	128	128	128	129	129	129	129	129	127	129	129	129	129	126	127	125	115	114	129	116	112	113	109	112	115	116	117	134	115	114	112	119	116	113			
PLPS</																																																		

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
BSIA	HY03	21	22	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	9	10	9	10	9	10	9	9	10	9	9	10	10	10	10	10	10	9	10	10	10	10	9	10
CEND	HY03	10	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	HY02	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	36	36	36	36	36	36	23	23	23	23	23	23	23	21	20	20	20	20	21	20	20	15	0	0
KNRG	HY02	37	37	37	37	37	37	23	23	23	23	23	23	22	22	23	23	23	21	21	20	21	20	20	22
KNRG	HY03	36	36	36	36	36	36	23	23	23	23	23	23	22	22	23	23	23	19	18	19	18	19	22	20
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	102	101	99	101	96	101	99	-1	-1	-1	-1
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	103	100	98	102	95	100	98	60	-1	-1	-1
KNYR	HY04	59	59	60	62	65	59	60	87	98	60	63	60	81	62	60	58	84	103	100	95	91	99	85	100
LPJA	HY01	12	12	12	12	12	12	12	12	12	12	12	12	15	15	15	16	16	16	16	14	14	14	14	15
LPJA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	15	15	16	17	17	17	13	13	13	15	15	15
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
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	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
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	50	31
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY02	47	46	47	47	47	45	45	73	84	44	45	45	57	87	44	43	52	71	83	44	44	46	45	45
TMGR	HY03	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	95	89	88	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	7	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	6	5	5	6	6	6	6
UPIA	HY02	0	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		505	367	314	295	297	290	290	305	328	250	253	253	286	298	272	272	291	426	643	581	568	585	467	495
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	2	3	3	4	8	7	10	23	22	22	22
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	14	19	17	18	9	16	25	29	23
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	15	22	26	17	30	30	30	29
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	5	8	20	20	29	14	15	20	17
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	3	6	3	2	5	4	10	7
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	3	3	0	0	2	4	8	2
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	16	25	28	34	44	32	43	50	41
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	10	18	32	23	35	43	28	17	23
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	15	20	29	27	29	39	27	42	27
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	17	24	23	30	30	26	25	22
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	12	9	13	12	15	19	19	36	31
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	11	10	16	51	28	34	30	51	35
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	10	8	22	27	30	29	29	32	44
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	9	19	13	8	5	7	7	15	16
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	1	32	81	123	176	254	284	300	312	313	369

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		
PCUF	CUFG	9	9	7	9	9	9	9	9	8	9	9	9	8	8	8	9	9	9	8	8	8	9	8	8	9	8
PCUF	CUFK	5	5	2	4	3	3	4	4	3	3	3	4	2	4	3	3	5	5	3	5	4	1	3	3	3	3
Total Co-Gen		14	14	9	13	12	12	13	13	11	12	12	13	10	12	11	11	14	14	12	13	12	8	12	12	11	12
Total Gen		15765	15168	14945	14614	14375	14145	13969	13713	13567	13391	13307	13307	13337	13518	13458	13425	13618	14574	15102	15611	15835	16233	16466	16546	16410	
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	
TIE-HVDC		30	30	30	30	30	31	31	30	30	29	29	31	31	30	30	30	30	29	29	29	30	30	30	30	30	
TIE-PLTG		28	38	83	10	23	19	38	5	29	11	27	3	36	19	-1	25	-65	-27	-25	11	-31	37	26	-51	-37	
Interconnection		59	68	113	41	53	50	68	36	59	40	56	34	67	49	30	55	-35	3	4	42	-1	67	56	-22	-8	
System Total		15709	15103	14835	14576	14325	14098	13904	13680	13511	13354	13254	13276	13273	13472	13431	13373	13656	14574	15101	15572	15839	16169	16413	16571	16421	
SRev ST-Coal		209	247	266	460	472	552	546	540	537	538	538	541	542	535	541	543	496	426	397	169	167	189	172	179	191	
SRev CCGT-Gas		623	1044	855	956	982	1104	1252	1431	1598	1701	1781	1787	1781	1625	1649	1678	1601	907	715	528	457	369	417	381	508	
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	
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	
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	
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	
Syncon		817	904	991	991	991	991	991	991	991	991	991	991	991	840	840	991	804	602	602	602	602	789	789	789	890	
Hydro		351	191	157	138	136	143	143	128	101	179	176	183	150	138	315	315	145	197	182	244	257	240	171	143	147	
S.Reserve Total		2007	2393	2269	2545	2581	2790	2932	3090	3227	3409	3486	3502	3464	3289	3345	3376	3233	2334	1896	1543	1483	1400	1549	1492	1635	