

Daily System Generation Summary on Friday

Friday, November 13, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,397 MW
Distillate	0 MW
Total TNB	2,397 MW
Total IPP	16,946 MW
Total Co-Gen	0 MW
Total System	22,040 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,632	5.15 %
Gas	45,750	12.65 %
Total TNB	64,382	17.80 %
ST-Coal	233,476	64.55 %
LSS	2,673	0.74 %
Gas	61,587	17.03 %
Total IPP	297,736	82.32 %
Co-Gen	214	0.06 %
Total Co-Gen	214	0.06 %
Total Generation	362,332	100.18 %
PLTG	902	0.25 %
HVDC	-253	-0.07 %
Interconnection	649	0.18 %
Net Energy	361,683	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:	16:00:00 Hour
Total Set On Bus	18,099 MW
TNB Generation	4,057 MW
IPP Generation	12,844 MW
Spinning Reserve	1,176 MW
Maximum Demand	16,972 MW
Net Energy	361,683 MWH
Load Factor	88.79 %

Fuel Cost

Total Cost:	44,473,551.54 RM
Cost per Unit	12.26 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	362
Hydro	550
Syncon	567
Thermal	212
Total	1,691

Time	Weather	Temperature
Afternoon	Rainy	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	48
SRDG	5
TJGS	205
Total TNB	258
CBPS	52
NPRI	156
PLPS	86
SKSP	27
YPKA	4
Total IPP	325
Total Gas	583

Total Gas Required 583

Alternate Fuel Usage

Station	(mmcsfd)
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	15145	14450	13958	13435	13120	13016	12839	12807	13139	14764	15560	16269	16291	16072	16471	16967	16972	16417	15595	16022	16235	15797	15365	14943

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, December 1, 2020 9:51:49 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

		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		635	632	631	632	631	633	631	632	632	633	632	633	630	631	632	667	693	690	692	695	695	693	692	692	692	695	693	694	688	690	693	691	693	692	691	693	691	692	692	562										
JMAH	U002		424	422	421	424	422	424	421	422	422	423	423	402	405	403	403	370	373	373	373	397	615	692	689	699	697	694	696	694	694	696	693	697	693	696	694	693	694	694	696	697	695	694	693	694	620					
JMHE	U001		974	976	902	850	852	790	775	780	776	779	780	783	781	781	781	965	982	976	979	982	981	980	979	981	980	984	981	982	975	986	978	978	981	979	980	981	982	978	980	980	979	982	974	983	979	981				
JMHE	U002		979	982	899	855	844	788	777	780	778	780	780	784	782	781	780	968	985	978	982	985	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	131	134	135	270	510						
JMJG	U002		678	666	677	671	670	671	669	671	664	671	664	675	673	673	676	664	598	672	673	673	668	674	671	673	673	668	672	677	672	673	674	677	675	673	672	672	671	675	671	672	676	669	671	671	673	667	672	670		
JMJG	U003		669	668	668	666	668	667	669	668	668	667	667	668	667	666	557	593	643	667	667	668	672	667	662	669	667	667	667	666	660	664	664	664	664	661	664	665	664	663	663	664	669	662	666	662	663	664	662			
JMJG	U004		972	952	924	886	828	777	721	710	709	708	711	710	709	709	710	709	746	812	868	929	975	974	973	974	972	969	970	968	971	969	970	972	971	972	972	971	969	971	970	971	972	971	972	971	972	972	972			
JMJG	U005		789	792	794	791	792	765	693	702	699	699	699	700	700	705	700	701	701	735	799	799	797	796	800	799	801	801	798	796	797	794	799	797	798	797	795	796	793	796	791	795	795	795	793	793	792	799	793	795		
PKLG	U003		284	283	281	282	278	281	282	279	278	280	281	280	280	282	275	211	253	277	279	280	280	280	279	279	278	276	277	276	279	275	276	278	277	277	279	280	280	281	278	278	279	279	278	279	280	282				
PKLG	U005		470	472	467	468	468	468	469	466	464	468	469	466	468	469	408	450	466	467	468	467	468	467	466	466	467	466	466	468	467	466	467	467	468	468	467	468	466	466	468	466	469	465	468	470	467					
PKLG	U006		446	449	451	448	447	446	445	449	445	449	447	451	448	449	447	448	447	449	448	448	455	455	446	451	452	451	451	448	448	447	449	447	448	448	447	444	445	445	447	448	447	451	449	450	449					
TBIN	U001		690	690	690	689	690	690	690	690	690	691	689	690	690	690	655	650	690	687	690	687	690	689	690	690	691	689	691	690	690	690	690	690	687	690	690	688	691	689	691	688	687	690	691	690						
TBIN	U002		688	689	691	687	689	690	689	691	693	693	691	691	691	692	680	653	693	692	690	690	695	691	700	693	689	692	688	693	691	693	692	691	692	690	689	693	690	692	690	691	693	688	692	692	690	692	691	691		
TBIN	U003		690	690	690	690	689	693	691	690	691	690	690	690	690	690	673	653	699	690	691	692	694	694	692	694	691	691	692	697	690	692	692	692	694	690	692	695	693	691	692	694	691	691	693	691	689	690	693	691		
TBIN	U004		982	959	902	861	783	783	783	781	782	783	784	783	784	782	863	954	983	981	984	982	983	983	982	983	982	983	983	983	984	983	981	983	983	983	983	982	983	983	982	983	982	981	981	982						
Total ST-Coal			10370	10322	10088	9900	9751	9566	9405	9411	9395	9414	9416	9414	9417	9433	9231	8925	9256	9916	10141	10210	10292	10334	9421	9663	9724	9718	9730	9743	9720	9722	9714	9724	9728	9715	9717	9726	9711	9720	9711	9707	9721	9716	9750	9852	9833	9853	9992	10024		
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				
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		357	356	362	362	360	362	352	358	356	356	306	226	218	254	217	226	226	265	303	329	360	362	362	354	332	339	346	363	351	354	346	348	363	363	362	362	349	356	367	368	363	363	358	361	351	362	362	362		
GLGR	GT01		67	69	68	67	66	68	67	66	68	67	68	67	67	69	68	68	69	67	70	67	69	68	67	68	66	66	67	68	66	66	102	100	101	100	99	100	99	100	67	72	100	100	100	99	100	100	65	68	69	
GLGR	GT02		68	68	68	68	68	67	68	68	68	68	67	68	68	68	68	68	67	68	68	67	66	67	67	67	67	67	67	67	67	102	100	100	100	100	101	100	101	67	74	101	100	101	101	100	101	67	68	68		
GLGR	ST1C		73	72	72	72	72	72	72	72	73	72	73	72	72	72	72	72	72	72	72	72	72	73	73	73	73	73	73	89	91	91	92	91	91	91	91	91	91	91	91	91	91	91	91	75	72	72				
NPRI	BLK1		508	506	509	509	510	512	494	502	499	500	508	510	508	509	513	492	505	512	509	508	512	501	507	515	509	512	511	515	515	511	509	510	496	504	509	514	509	510	506	506	508	491	508	511	511					
NPRI	BLK2		514	515	516	514	515	515	499	510	505	504	513	515	512	512	503	514	516	515	517	496	510	514	515	513	517	505	512	520	515	516	517	520	522	515	515	514	500	509	518	515	514	511	514	495	513	515	513			
PCGP	PGRG		600	592	602	604	603	603	584	593	589	589	600	604	601	603	590	603	603	600	608	581	593	607	602	600	603	592	601	610	603	602	602	614	610	606	604	601	591	599	610	605	601	598	600	601	591	605	606	601		
PLPS	GT11		112	112	65	66	65	64	62	60	61	61	65	65	65	60	66	65	110	114	111	112	116	116	115	115	112	114	119	115	135	136	139	134	115	114	139	135	116	137	134	133	134	134	120	115	0	0				
PLPS	GT12		119	119	68	68	68	67	62	62	64	64	67	67	67	68	63	67	67	120	123	115	117	121	120	121	118	117	118	123	119	140	140	141	138	119	119	146	139	120	142	138	138	139	137	138	124	120	119	119		
PLPS	GT13		18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	106	109	113	112	113	111	108	111	114	112	132	131	134	130	113	112	137	129	112	132	129	129	129	131	117	111	108	108
PLPS	ST18		174	131	97	93	93	93	92	94	91	90	93	94	93	91	90	93	91	134	135	196	195	199	199	199	200	197	199	199	211	210	206	199	199	213	210	196	210	210	209	209	209	210	203	197	162	133				
SKSP	BLK1		217	218	220	137	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	342	220	221	217	221	286	242	280	259	245	334	290	217	334	338	306	279	300	221	219	275	242	225			
SPGP	BLK1		0	0	48	0	0	0	0	0	0	0	0	0	83	168	282	284	358	360	702	721	680	720	720	721	720	720	716	717	713	681	689	690	690	720	366	612	719	720	720	720	720	721	733	737	0	0	0			
TJGS	GT1A		226	229	234	231	230	234	218	195	198	196	147	154	148	152	149	159	152	149	159	179	187	226	191	214	216	186	193	214	219	205	220	226	227	225	226	227	214	225	222	227	230	227</								

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
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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	-1	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	38	38	38	38	38	37	38	37	38	38	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNYR	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
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY04	65	58	77	57	66	67	58	60	59	60	82	80	78	58	58	101	71	62	88	58	57	100	99	99
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
LPIA	HY02	25	25	25	25	25	25	23	23	23	23	23	23	23	23	23	23	23	23	23	24	26	26	26	25
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGAU	HY03	-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	HY04	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	0	0	0	0	0	0
SIHY	HY02	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	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
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0
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	-1	-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	34	34	34	34	34	32	34	34	33	34	34	34	33	34	34	34	31	34	34	86	87	61	45	46
TMGR	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	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	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
UJLI	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
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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Total Hydro		316	310	329	309	319	319	307	310	308	315	343	319	316	297	295	339	310	301	326	345	347	588	1714	1606
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
BDSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0	0	0	0	0
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	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	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	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	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	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	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	0	0	0	0	0	0	0	0	0

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	5	6	6	5	6	6	7	6	6	5	7	5	6	7	6	6	6	5	5	4	6	6	5	6	4	5	6	7	5	7	6	7	7	6	7	5	5	6	7	6	6	4	6	5	5	5	5	7	
PCUF	CUFK	4	3	5	3	4	3	2	3	3	3	4	4	3	5	4	2	4	2	4	2	3	3	3	2	1	2	2	3	2	5	3	4	4	3	3	4	2	4	3	4	1	5	3	4	3	2	3	4	
Total Co-Gen		9	9	11	8	10	9	9	9	9	8	11	9	9	12	10	8	10	7	9	6	9	9	8	8	5	7	8	10	7	12	9	11	11	9	10	9	7	10	10	10	7	9	9	9	8	7	8	11	
Total Gen		15236	14852	14478	14217	14011	13728	13533	13327	13230	13149	13046	12964	12927	13067	12844	12806	13148	14140	14772	15365	15636	16043	16238	16448	16336	16305	16111	16286	16459	16674	16852	16875	16912	16684	16355	15855	15625	15330	15972	16429	16275	16108	15816	15675	15397	15149	14929	14787	
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		
TIE-HVDC		31	31	30	30	30	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30	30	30	-29	-29	-28	-28	-29	-29	-30	-99	-97	-98	-98	-98	-99	-29	-29	-29	-29	-29	-29	-29	-29	-30	-28	-28	-28		
TIE-PLTG		71	52	8	48	33	-17	79	81	91	72	10	33	69	0	18	34	-10	97	-11	63	58	3	10	69	84	102	78	4	29	-26	-7	39	49	20	48	6	70	-20	-10	7	79	35	58	18	74	67	26	14	
Interconnection		102	83	39	78	63	13	108	111	121	102	41	63	99	30	48	64	20	127	19	93	88	33	-19	40	56	73	50	-25	-1	-126	-104	-59	-49	-78	-51	-23	41	-49	-39	-23	50	6	29	-11	44	38	-2	-14	
System Total		15145	14780	14450	14150	13958	13725	13435	13226	13120	13058	13016	12912	12839	13048	12807	12753	13139	14024	14764	15283	15560	16022	16269	16420	16291	16243	16072	16322	16471	16811	16967	16945	16972	16773	16417	15889	15595	15390	16022	16463	16235	16112	15797	15696	15365	15123	14943	14813	
SRev ST-Coal		305	351	582	623	612	639	689	690	698	683	678	682	677	676	771	971	741	538	383	373	332	290	227	203	157	163	151	138	161	159	167	157	153	166	164	155	170	161	170	174	160	165	201	199	218	198	389	329	
SRev CCGT-Gas		617	804	743	614	562	562	584	734	683	789	925	979	1016	958	1061	977	991	776	591	554	454	319	393	361	650	492	571	446	485	337	233	251	204	304	324	150	287	460	218	166	197	240	228	292	472	524	426	401	
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		
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		
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	4	2	-1	-2	-3	-2	100	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		
Syncon		1304	1304	1304	1304	1304	1304	1304	1304	1304	1153	1153	1304	1304	1304	1304	1304	1304	1304	1304	1203	1203	976	0	0	187	374	374	374	374	374	374	187	0	87	87	425	850	976	1203	850	361	548	548	775	1203	1304	475	688	990
Hydro		122	128	109	129	120	120	132	129	130	274	246	119	122	141	143	99	128	137	112	194	191	252	264	495	469	526	607	567	660	690	732	821	739	871	777	514	584	582	523	626	574	695	807	570	547	856	610	349	
S.Reserve Total		2348	2587	2738	2670	2598	2625	2709	2857	2815	2899	3002	3084	3119	3079	3279	3351	3164	2755	2390	2324	2180	1837	884	1059	1463	1555	1703	1525	1680	1564	1321	1228	1181	1425	1688	1769	2017	2406	1761	1327	1479	1648	2011	2264	2541	2053	2113	2069	