

Daily System Generation Summary on Friday

Friday, December 18, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,393 MW
Distillate	0 MW
Total TNB	2,393 MW
Total IPP	14,823 MW
Total Co-Gen	0 MW
Total System	20,039 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,658	6.93 %
Gas	35,024	10.26 %
Total TNB	58,682	17.19 %
ST-Coal	178,956	52.42 %
LSS	1,326	0.39 %
Gas	99,500	29.14 %
Total IPP	279,782	81.95 %
Co-Gen	164	0.05 %
Total Co-Gen	164	0.05 %
Total Generation	338,628	99.19 %
PLTG	-333	-0.10 %
HVDC	-2,441	-0.71 %
Interconnection	-2,774	-0.81 %
Net Energy	341,402	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:	11:30:00 Hour
Total Set On Bus	16,776 MW
TNB Generation	3,143 MW
IPP Generation	12,304 MW
Spinning Reserve	1,322 MW
Maximum Demand	15,723 MW
Net Energy	341,402 MWH
Load Factor	90.47 %

Fuel Cost

Total Cost:	41,113,601.39 RM
Cost per Unit	12.14 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	323
Hydro	446
Syncon	560
Thermal	150
Total	1,479

Time	Weather	Temperature
Afternoon	Cloudy	30
Morning	Rainy	26

Gas Usage

Station	(mmscfd)
GLGR	52
TJGS	198
Total TNB	249
CBPS	55
KLPP	87
NPRI	152
PGLA	107
PLPS	78
SKSP	50
YPKA	77
Total IPP	606
Total Gas	856
Total Gas Required	856

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	13890	13154	12862	12505	12285	12214	12317	12635	12838	14421	15170	15622	15497	15132	15369	15649	15576	15188	14714	15072	15393	14985	14513	14044

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, January 5, 2021 10:22:26 AM 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	693	694	692	692	692	693	693	693	693	692	693	693	692	692	692	692	692	693	692	692	689	692	698	691	693	692	693	692																						
JMAH	U002	698	696	694	695	693	697	695	695	694	696	693	695	698	694	693	694	691	687	696	693	694	692	685	697	695	690	695	692																						
JMJG	U002	674	673	675	665	671	674	667	670	671	671	675	678	672	673	677	671	668	673	676	672	680	671	673	674	675	672	676	676	668																					
JMJG	U003	662	662	666	662	665	662	665	662	663	662	662	661	663	660	662	662	661	660	661	664	660	598	593	596	592	596	601	597	665																					
JMJG	U004	971	977	974	973	930	873	856	854	854	854	855	854	857	857	855	854	853	914	968	976	973	969	967	968	968	971	968	969	975																					
PKLG	U003	281	280	281	280	282	279	281	280	282	282	280	281	281	282	281	281	280	280	279	279	280	280	281	279	275	278	279	277	280	278																				
PKLG	U004	280	279	276	274	277	276	274	276	277	274	274	278	280	277	276	277	277	277	276	278	278	277	277	276	276	280	278	276	274	277	277	277	278	279																
PKLG	U005	465	467	470	463	466	467	464	466	465	468	469	467	468	466	468	464	468	468	468	467	469	469	468	465	466	466	467	468	467	466	464	468	470	470	470	470														
PKLG	U006	449	447	447	451	449	445	450	445	447	449	447	447	449	444	448	447	450	452	448	447	448	448	445	449	449	445	447	449	445	447	449	449	449	447	449	449	449													
TBIN	U001	690	687	682	691	687	691	690	690	690	691	689	692	690	690	689	691	690	691	691	690	689	687	690	690	689	690	689	691	690	690	689	690	689	690	688	689														
TBIN	U002	693	695	692	693	694	691	694	692	692	695	693	695	692	691	697	695	693	693	692	688	690	692	692	691	694	693	691	693	695	687	693	693	695	695	689	691	692	689	694	690	694	695								
TBIN	U003	690	693	695	692	693	694	696	693	693	693	691	693	693	691	694	693	691	693	692	688	690	692	692	691	694	693	691	693	695	687	693	693	695	695	689	691	692	689	694	690	694	695								
TBIN	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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-Coal		7246	7250	7244	7231	7199	7142	7125	7116	7121	7128	7120	7134	7132	7123	7133	7126	7118	7113	7188	7239	7247	7244	7237	7234	7244	7249	7311	7375	7389	7434	7419	7423	7481	7533	7561	7682	7745	7825	7931	8055	8028	8051	8121	8156	8183	8175	8181	8180		
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	362	358	362	363	365	362	362	363	362	362	363	363	360	363	363	360	369	362	361	361	365	364	357	360	364	363	361	365	364	358	361	359	365	362	366	368	363	356	363	362	366	357	358	358	359	354	366		
GLGR	GT01	68	69	68	68	69	68	67	69	69	67	69	68	67	69	68	67	69	68	101	101	100	101	101	100	99	100	100	100	100	101	99	101	100	100	67	68	68	99	102	101	102	100	101	100	100	100	73			
GLGR	GT02	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	101	100	100	101	100	100	101	100	101	100	101	101	101	101	101	101	67	67	68	100	101	101	101	101	101	101	101	101	72			
GLGR	ST1C	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	90	91	91	91	91	91	91	91	91	91	91	91	90	92	90	91	90	74	72	72	86	91	91	90	91	91	91	91	80				
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	136	136	138	138	137	138	138	137	141	140	141	140	140	141	141	141	141	139	141	141	140	142	140	139	141	0	0		
KLPP	GT14	158	141	25	0	0	0	0	0	0	0	0	0	0	0	60	155	154	156	156	155	156	156	156	155	154	154	157	158	157	158	156	156	156	156	156	157	157	157	156	157	156	157	153	0	0	0	0			
KLPP	GT15	160	161	145	137	137	138	134	134	135	135	135	135	137	140	133	137	156	160	161	159	163	163	161	162	159	161	160	160	160	160	160	160	162	160	161	160	161	161	160	161	163	163	162	162	158	146				
KLPP	ST17	133	132	95	50	52	52	54	50	51	51	51	51	50	50	54	54	140	136	140	136	132	200	202	202	200	200	200	200	204	204	204	204	204	205	205	205	205	205	205	205	204	204	205	205	164	132	83	54		
NPRI	BLK1	520	521	520	517	517	527	502	373	421	345	356	344	463	495	490	391	404	529	517	522	518	515	515	515	517	511	512	516	512	516	515	514	516	517	515	515	517	519	508	517	515	515	506	510	508	509	512	515		
NPRI	BLK2	521	522	522	518	523	522	522	443	328	329	328	327	329	424	516	514	518	529	518	517	518	517	516	516	517	512	514	517	512	517	516	518	517	517	518	517	518	521	508	517	517	518	508	511	509	508	512	517		
PCGP	PGRG	600	605	603	597	603	602	601	602	603	603	601	602	602	606	603	597	602	619	603	602	605	602	602	603	602	595	599	605	600	602	603	602	603	601	602	603	602	603	602	607	591	603	601	602	592	594	590	589	596	604
PGLA	GT11	169	168	169	167	169	169	169	168	168	168	168	167	168	170	168	168	169	198	217	215	214	215	216	215	216	205	214	216	215	216	209	208	216	193	206	217	217	202	216	194	215	183	212	200	209	202	216			
PGLA	GT12	171	172	172	171	173	172	172	172	172	172	172	172	172	172	172	172	172	172	202	221	220	219	219	218	219	218	219	218	219	219	218	219	211	213	220	197	209	219	222	206	219	197	202	187	216	203	211	206	220	
PGLA	ST10	206	206	206	204	205	207	206	206	206	206	206	206	206	204	205	220	236	238	240	240	241	241	241	238	238	237	240	239	239	239	233	237	223	236	240	241	237	239	226	238	228	236	234	232	236	238				
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	149	146	146	147	147	146	135	135	135	134	134	134	135	135	134	134	135	134	116	118	116	130	132	133	135	128	127	127	127	123	129		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	149	146	148	148	148	147	141	139	139	139	139	139	138	139	120	121	120	134	137	137	138	132	0	0	0	0	0		
PLPS	GT13	125	125	125	124	124	124	124	125	125	124	125	125	124	124	122	137	148	147	147	147	146	146	132	131	131	132	132	132	131	131	132	132	132	132	112	115	112	128	130	130	131	126	125	125	126	0	0			
PLPS	ST18	58	58	58	58	58	58	59	58	59	58	59	58	58	57	144	147	146	146	146	146	146	213	212	213	212	211	211	211	211	211	211	211	210	198	199	200	210	211	209	210	208	140	140	141	73	59				
SKSP	BLK1	218	209	219	220	215	220	219	217	219	217	219	219	218	220	220	220	222	232	336	337	336	339	337	336																										

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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