

Daily System Generation Summary on Tuesday

Tuesday, December 18, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,453 MW
Distillate	0 MW
Total TNB	2,453 MW
Total IPP	16,398 MW
Total Co-Gen	65 MW
Total System	21,941 MW

Generation Mix

Type	MWh	Percentage
Hydro	14,591	4.10 %
Gas	30,381	8.54 %
Total TNB	44,972	12.64 %
ST-Coal	203,610	57.22 %
LSS	603	0.17 %
Gas	105,989	29.79 %
Total IPP	310,202	87.18 %
Co-Gen	1,313	0.37 %
Total Co-Gen	1,313	0.37 %
Total Generation	356,487	100.19 %
PLTG	-35	-0.01 %
HVDC	699	0.20 %
Interconnection	664	0.19 %
Net Energy	355,823	100.00 %

Maximum Demand Record

Date: 8/15/2018	18,338 MW
Date: 8/15/2018	388,524 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,243 MW
TNB Generation	2,849 MW
IPP Generation	14,081 MW
Spinning Reserve	1,239 MW
Maximum Demand	17,004 MW
Net Energy	355,823 MWH
Load Factor	87.19 %

Fuel Cost

Total Cost:	67,403,652.32 RM
Cost per Unit	19.75 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	343
Hydro	513
Syncon	414
Thermal	191
Total	1,461

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	52
SRDG	15
TJGS	158
Total TNB	225
CBPS	52
KLPP	99
NPRI	151
PGLA	110
PLPS	82
PTEK	19
SGRI	52
SKSP	49
YPKA	80
Total IPP	695
Total Gas	920

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Total Gas Required 920

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	13811	13433	12806	12508	12213	12178	12339	12648	13098	14877	15686	16313	16283	15975	16564	16946	16926	16587	15584	15679	16209	16122	15527	15085

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, December 27, 2018 8:56:19 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Tuesday

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	694	692	693	692	693	692	694	693	693	685	693	690	693	693	691	694	691	692	691	692	695	693	693	692	692
JMJG	U001	668	670	668	667	670	668	669	671	668	668	668	671	672	668	671	668	671	669	670	669	668	624	667	671	677
JMJG	U002	662	674	672	673	673	672	672	672	671	677	671	672	671	671	671	673	672	672	677	670	669	671	672	672	690
JMJG	U003	661	664	667	663	663	670	662	663	662	662	662	667	661	662	662	663	662	661	667	663	662	662	662	664	660
JMJG	U004	985	899	810	785	785	785	785	786	783	785	785	783	783	810	894	979	985	983	985	985	985	987	985	983	985
JMJG	U005	979	852	775	780	778	781	778	780	785	778	782	777	782	782	782	780	823	954	982	981	980	978	981	979	980
PKLG	U003	250	251	252	252	246	249	250	219	198	224	244	207	210	250	252	252	252	251	250	250	250	250	249	249	252
PKLG	U004	282	280	282	281	280	277	280	278	279	275	208	204	212	272	277	277	280	280	280	279	280	281	281	280	281
PKLG	U006	320	289	319	358	423	467	470	470	469	468	409	406	427	470	472	473	470	468	472	469	468	470	472	469	470
TBIN	U001	687	690	690	689	689	690	688	689	690	689	689	689	690	691	689	687	689	688	689	688	688	689	689	689	688
TBIN	U002	689	689	690	690	687	689	691	687	692	691	689	690	692	689	687	691	690	687	689	685	691	689	689	691	688
TBIN	U003	691	689	691	691	689	689	691	690	690	690	692	692	690	690	690	690	690	691	689	691	690	689	691	692	688
TBIN	U004	952	952	952	800	800	800	800	800	800	800	800	800	800	800	910	952	952	952	952	952	952	952	953	950	950
Total ST-Coal		8520	8291	8161	8021	8075	8130	8128	8098	8083	8099	7984	7953	7981	8128	8125	8133	8200	8526	8681	8678	8674	8681	8637	8678	8693
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
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
CBPS	BLK2	347	361	363	362	356	360	221	222	222	221	221	225	221	224	366	363	363	362	362	354	361	360	362	362	362
GLGR	GT01	68	68	69	70	67	68	70	68	69	71	69	66	68	70	68	69	70	107	104	105	104	105	104	105	103
GLGR	GT02	69	68	69	69	68	68	68	69	69	69	69	69	68	69	69	69	106	105	105	105	105	105	104	105	105
GLGR	ST1C	70	70	70	70	69	70	70	70	70	70	70	70	70	69	70	70	90	91	92	92	92	92	92	92	93
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	122	144	144	148	146	148	147	146	147	147
KLPP	GT14	159	121	124	121	121	120	95	76	76	75	79	75	76	80	80	77	86	130	138	141	139	154	154	154	151
KLPP	GT15	147	115	115	114	114	113	72	70	70	70	72	69	72	74	72	69	75	125	151	151	151	151	152	152	152
KLPP	ST17	139	119	119	123	123	122	102	86	86	84	86	84	84	85	86	90	90	194	202	205	205	204	204	209	209
NPRI	BLK1	494	499	491	486	477	474	498	469	483	368	416	474	507	507	515	472	512	511	505	508	505	509	509	515	509
NPRI	BLK2	500	499	493	487	466	484	502	472	333	328	421	477	517	509	520	473	515	513	510	507	506	513	513	517	512
PCGP	PGRG	491	501	499	500	366	361	362	373	367	364	362	372	368	359	366	403	504	504	500	495	497	503	542	527	522
PGLA	GT11	226	209	204	171	167	166	174	167	169	167	170	165	167	167	167	170	182	172	204	211	210	204	197	215	209
PGLA	GT12	231	216	210	177	174	174	174	181	174	174	176	172	174	175	174	175	188	179	209	217	216	210	204	221	218
PGLA	ST10	250	231	234	207	205	205	207	205	205	203	205	205	205	207	205	205	217	205	232	236	236	232	236	243	233
PLPS	GT11	121	123	122	122	123	122	123	123	123	122	123	122	122	122	128	125	126	126	127	129	129	130	133	130	128
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84	151	151	149	150	147	148	151
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	113	141	143	143	144	145	144	141	142
PLPS	ST18	60	58	59	58	58	58	59	59	57	58	58	58	59	58	59	60	59	126	144	182	216	216	215	214	215
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	34	37	32	56	83	75	85
SGRI	ST14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	29	33	42	42	50	63
SGRI	GT21	133	134	134	105	102	106	107	103	103	103	106	108	104	108	108	103	107	107	133	134	134	134	134	134	132
SGRI	ST24	69	71	71	57	64	59	63	62	62	63	64	59	63	63	63	61	61	63	71	71	71	70	70	70	68
SKSP	BLK1	219	311	320	220	217	224	222	218	219	217	226	219	217	222	220	220	222	223	221	295	310	220	302	350	274
TJGS	GT1A	186	230	221	219	225	141	145	142	142	142	143	141	144	143	140	178	141	191	224	224	234	230	230	230	230
TJGS	GT1B	175	215	214	210	214	135	140	134	134	135	132	136	138	136	136	135	167	137	185	212	214	226	223	222	219
TJGS	ST1C	217	248	248	248	242	181	178	180	177	177	177	177	177	181	178	178	185	194	224	242	248	256	256	259	259
TJGS	GT2A	227	227	228	228	156	156	156	156	156	156	159	156	156	157	157	157	226	226	231	231	231	231	228	231	231
TJGS	ST2C	126	126	126	126	95	101	101	101	101	101	101	101	101	101	101	101	127	127	130	130	130	130	130	130	130
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69	130	130	130	131	131	132	130	130	129
YPKA	GT12	103	68	69	72	66	65	65	67	69	73	70	65	69	64	67	69	64	137	133	134	135	129	133	133	132
YPKA	ST10	50	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	91	123	124	125	125	125	126	125	125

Daily MW Generation on Tuesday

[illegible]

Daily MW Generation on Tuesday

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	24	24	24	24	25	25	24	24	24	24	25	24	23	24	24	25	23	24	24	22	22	21	19	22	19	17	25	21	26	22	24	33	43	46	37	25	25	23	23	22	24	24	25	24	24	25	26		
PCUF	CUFK	29	29	33	30	30	30	30	31	29	29	28	29	28	30	31	32	29	31	29	30	28	30	30	31	30	30	28	32	29	30	29	29	31	30	31	29	30	30	30	29	30	30	29	30	30	32	31		
Total Co-Gen		53	53	57	54	55	55	54	55	53	53	53	53	51	55	55	56	54	54	53	54	50	52	51	50	52	49	47	53	53	55	52	53	62	74	76	68	54	55	53	53	51	54	54	54	54	54	57	57	
Total Gen		13823	13584	13443	13048	12814	12667	12512	12369	12222	12112	12163	12221	12328	12485	12643	12599	13096	14185	14866	15321	15698	16076	16315	16427	16273	16040	16012	16366	16582	16805	16973	16984	16977	17004	16671	16056	15668	15408	15729	16437	16263	16355	16141	15990	15579	15356	15131	14933	
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	
TIE-HVDC		30	31	31	30	30	30	30	31	31	31	31	30	30	31	31	31	31	31	31	30	30	31	31	30	30	30	30	29	29	30	30	30	-29	31	29	31	31	31	31	31	31	31	31	31	30	31			
TIE-PLTG		-3	6	-6	-27	-6	-11	-10	-3	-6	-30	-30	-6	-26	-73	-21	-42	-17	-30	-26	6	-3	-32	-14	-38	-24	-14	23	28	5	-14	12	10	35	29	53	21	68	-6	19	-28	24	1	-11	84	21	4	16	24	
Interconnection		27	37	25	3	24	19	20	28	25	0	1	24	4	-42	10	-12	14	0	5	36	27	-2	17	-8	6	15	53	58	34	16	42	40	66	0	84	51	99	25	50	2	54	32	19	115	52	35	46	54	
System Total		13811	13562	13433	13061	12806	12664	12508	12357	12213	12128	12178	12212	12339	12542	12648	12627	13098	14201	14877	15300	15686	16093	16313	16451	16283	16041	15975	16324	16564	16805	16946	16959	16926	17004	16587	16020	15584	15398	15679	16435	16209	16323	16122	15875	15527	15321	15085	14879	
SRev ST-Coal		242	387	377	395	392	399	404	386	407	381	498	496	498	408	409	399	401	337	197	200	204	197	181	200	200	185	192	197	201	184	194	192	189	181	192	200	197	206	194	170	197	181	182	182	175	183	167	169	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	2	-1	1	2	1	6	111	27	18	12	17	14	69	3	80	79	1	1	2	1	1	101	0	0	0		
SRev CCGT-Gas		614	634	650	900	1053	1254	1406	1521	1651	1775	1612	1522	1440	1436	1276	1331	1125	748	436	310	367	315	214	145	292	333	372	387	431	293	286	281	291	325	419	386	322	361	507	246	362	262	471	260	457	435	543	591	
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	0	
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 Co-Gen		12	12	8	11	10	10	11	10	12	12	12	12	14	10	10	9	11	11	12	11	15	13	14	15	13	16	18	12	12	10	13	12	3	-9	-11	-3	11	10	12	12	14	11	11	11	11	8	8		
Syncon		1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	1113	962	523	336	336	311	336	487	487	336	185	185	185	185	185	185	185	685	962	962	559	372	372	372	372	710	836	836	836	836	
Hydro		281	271	270	271	272	273	273	272	272	274	271	273	274	272	271	270	270	265	283	353	454	610	592	524	543	611	673	498	533	496	526	528	500	540	786	405	289	314	474	376	405	515	520	544	504	429	342	295	
S.Reserve Total		2262	2417	2418	2690	2840	3049	3207	3302	3455	3555	3506	3416	3339	3239	3079	3122	2920	2474	2041	1836	1563	1474	1338	1197	1383	1633	1744	1431	1368	1279	1231	1216	1180	1239	1585	1742	1784	1933	1825	1177	1351	1343	1557	1708	2084	1894	1896	1899	