

Daily System Generation Summary on Tuesday

Tuesday, July 31, 2018

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,461 MW
Hydro	2,330 MW
Distillate	0 MW
Total TNB	4,791 MW
Total IPP	16,141 MW
Total Co-Gen	45 MW
Total System	21,549 MW

Generation Mix

Type	MWh	Percentage
Gas	34,395	9.38 %
Hydro	13,529	3.69 %
Total TNB	47,924	13.06 %
ST-Coal	210,177	57.30 %
Gas	108,300	29.52 %
Total IPP	318,477	86.82 %
Co-Gen	877	0.24 %
Total Co-Gen	877	0.24 %
Total Generation	367,278	100.13 %
PLTG	-266	-0.07 %
HVDC	729	0.20 %
Interconnection	463	0.13 %
Net Energy	366,815	100.00 %

Maximum Demand Record

Date: 6/6/2018	18,010 MW
Date: 6/7/2018	382,778 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:30:00 Hour
Total Set On Bus	18,793 MW
TNB Generation	2,657 MW
IPP Generation	14,689 MW
Spinning Reserve	1,409 MW
Maximum Demand	17,338 MW
Net Energy	366,815 MWH
Load Factor	88.15 %

Fuel Cost

Total Cost:	64,329,711.70 RM
Cost per Unit	18.18 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	420
Hydro	478
Syncon	666
Thermal	121
Total	1,685

Time	Weather	Temperature
Afternoon	Sunny	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	49
PGPS	39
TJGS	159
Total TNB	248
CBPS	54
KLPP	93
NPRI	139
PGLA	109
PLPS	72
PTEK	8
SGB3	50
SGRI	57
SKSP	49
YPKA	79
Total IPP	711
Total Gas	959

Total Gas Required 959

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	14730	13936	13463	13353	12999	12891	13030	13206	13504	15123	16096	16776	16710	16365	16975	17264	17311	16943	15836	15814	16568	16430	15853	15309

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, August 03, 2018 12:18:34 PM

(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	691	695	688	694	700	691	694	694	690	693	694	691	694	698	693	693	693	694	692	695	692	695	692	693	693
JMAH	U002	691	697	695	695	693	695	693	693	693	696	693	697	694	693	694	693	694	695	694	693	694	695	694	692	695
JMJG	U001	674	663	672	677	671	671	670	672	670	669	672	668	670	671	671	672	673	671	670	670	672	670	671	672	673
JMJG	U002	673	671	672	670	672	671	671	672	673	672	671	671	671	672	671	672	671	672	672	671	677	671	671	672	672
JMJG	U003	668	663	670	668	668	669	669	668	668	669	671	670	668	663	669	666	669	665	673	665	662	661	661	664	667
JMJG	U004	970	970	970	971	970	970	914	849	847	841	834	824	825	826	823	809	807	823	907	977	925	904	902	903	904
JMJG	U005	983	823	801	694	711	701	702	703	700	703	700	702	699	700	805	805	799	807	799	803	804	801	800	803	801
PKLG	U003	289	285	283	282	285	285	283	283	284	280	281	282	285	281	284	285	284	284	284	284	290	281	280	279	277
PKLG	U004	281	279	280	278	279	275	277	275	278	277	279	280	281	281	280	284	281	281	279	278	280	280	280	280	281
PKLG	U005	242	246	298	304	351	356	397	433	466	466	465	466	472	467	468	470	467	465	465	466	468	467	467	466	467
PKLG	U006	0	0	85	96	94	94	94	95	118	133	133	133	149	170	169	170	170	175	187	209	256	284	309	338	360
TBIN	U001	687	686	688	687	690	690	687	689	689	690	688	690	689	689	694	691	691	689	687	689	687	689	689	689	689
TBIN	U002	696	692	689	693	692	687	695	689	691	691	691	691	693	690	689	694	692	688	689	692	693	689	693	690	700
TBIN	U004	981	981	983	981	982	982	979	905	813	802	803	803	802	803	803	803	803	849	978	982	983	982	982	981	981
Total ST-Coal		8526	8351	8474	8390	8458	8437	8425	8320	8281	8281	8278	8266	8296	8304	8411	8405	8395	8471	8674	8781	8762	8790	8800	8825	8855
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	360	353	365	366	361	365	363	367	362	358	358	354	364	369	367	360	367	366	366	362	365	365	361	365	360
GLGR	GT01	69	68	69	69	69	69	69	67	69	69	69	68	68	69	69	79	104	104	105	105	103	103	104	103	103
GLGR	GT02	69	69	69	68	69	68	69	68	69	69	69	69	68	68	69	69	81	106	105	105	103	104	104	104	104
GLGR	ST1C	70	70	70	70	71	70	70	70	70	70	70	70	70	70	72	92	92	93	93	93	93	93	93	93	93
KLPP	GT13	114	24	0	0	0	0	0	0	0	0	0	0	0	0	35	148	147	146	146	147	145	145	140	141	138
KLPP	GT14	125	129	131	76	75	80	75	76	77	75	75	75	76	78	75	82	138	145	146	144	147	156	155	140	148
KLPP	GT15	117	124	124	70	69	75	70	66	69	69	68	68	69	69	69	74	134	149	149	149	149	147	145	147	145
KLPP	ST17	190	166	126	88	84	84	85	85	81	81	82	80	84	88	82	83	86	128	198	202	204	204	207	214	210
NPRI	BLK1	386	382	394	396	392	396	396	390	397	384	388	385	394	388	394	359	447	423	511	512	511	514	507	510	498
NPRI	BLK2	371	361	394	397	391	397	395	391	394	364	365	364	394	386	392	358	454	450	512	517	512	512	508	509	498
PCGP	PGRG	394	391	400	400	398	265	266	259	266	257	260	260	263	266	266	266	269	403	400	398	405	454	452	444	453
PGLA	GT11	232	198	164	169	167	197	178	167	174	165	166	164	184	204	206	168	218	217	211	218	217	218	229	227	223
PGLA	GT12	233	204	170	173	171	202	183	171	179	170	170	169	188	208	211	173	222	222	217	223	222	221	231	231	227
PGLA	ST10	254	225	211	215	213	227	204	205	216	202	203	203	218	230	218	205	237	237	235	233	237	239	252	253	250
PGPS	GT3A	93	93	93	0	0	0	0	0	0	0	0	0	0	0	0	0	51	77	94	94	93	93	93	94	93
PGPS	GT3B	94	94	95	94	72	70	70	71	71	70	70	70	70	71	70	70	70	70	70	70	95	95	95	95	94
PGPS	ST3C	89	89	89	44	31	30	30	30	30	30	30	30	30	30	30	30	29	88	92	92	92	92	92	93	92
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	GT12	131	114	64	62	60	64	64	64	63	58	59	60	65	64	64	64	66	122	139	138	140	139	140	139	135
PLPS	GT13	119	119	62	61	59	63	63	63	64	59	58	58	64	63	63	63	67	115	125	125	128	130	125	127	123
PLPS	ST18	144	135	91	88	90	90	90	89	90	87	86	87	89	91	91	90	122	144	144	143	144	145	145	144	145
SGB3	GT31	137	137	113	110	106	109	112	112	111	107	107	106	111	109	110	110	113	111	110	111	138	138	137	137	137
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	55	143	143	142	142	142	143
SGB3	ST34	68	68	64	60	61	61	61	61	59	59	60	60	60	60	60	61	61	61	68	68	69	72	146	146	146
SGRI	GT11	136	136	112	112	110	115	111	111	111	111	111	110	111	111	111	111	115	111	110	116	115	116	113	139	132
SGRI	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	135	135	132	135	59
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	138	134	134	135	142	146	58
SGRI	ST14	70	70	59	60	61	61	58	58	58	58	54	57	58	63	63	62	63	64	64	55	132	142	208	218	219
SKSP	BLK1	246	244	218	217	218	216	215	219	220	220	219	215	217	219	219	263	317	230	282	342	344	305	338	216	308
TJGS	GT1A	161	150	149	148	145	187	155	153	147	150	151	150	163	210	189	151	235	238	233	234	233	237	237	237	237

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	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	22	18	18	17	19	18	19	19	20	19	20	21	23	24	23	27	27	25	25	24	25	23	21	22	22	22	22	22	22	21	23	22	19	16	17	18	18	19	19	20	21	20	23	26	26	26	30	
PCUF	CUFK	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
Total Co-Gen		37	33	33	32	34	33	34	34	35	34	35	36	38	39	38	42	42	40	40	39	40	38	36	37	37	37	37	37	37	37	36	38	37	34	31	32	33	33	34	34	35	36	35	38	41	41	41	45
Total Gen		14732	14231	13957	13694	13483	13485	13320	13173	13016	12899	12886	12862	13042	13273	13249	13049	13528	14489	15221	15650	16107	16394	16759	16854	16795	16535	16337	16790	17021	17257	17284	17384	17348	17345	17015	16367	15866	15641	15887	16395	16592	16651	16423	16285	15862	15653	15290	14907
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		
TIE-HVDC		30	30	30	30	31	31	30	30	31	31	30	30	31	31	30	30	31	31	31	31	31	31	31	31	31	31	29	29	31	31	31	31	30	30	31	31	31	30	31	31	31	30	30	31	31	31	31	
TIE-PLTG		-28	-6	-9	-48	-11	-31	-63	9	-14	11	-36	1	-18	44	12	25	-7	3	68	-63	-20	-65	-48	-32	54	4	-58	22	17	-8	-11	15	7	19	42	-20	-1	-25	44	-24	-7	-6	-37	-37	-21	-12	-50	-112
Interconnection		2	24	21	-17	20	-1	-33	40	17	41	-5	32	12	74	43	56	24	33	98	-32	11	-34	-17	-2	85	35	-28	52	46	22	20	46	37	49	72	10	30	4	73	6	24	25	-7	-7	9	19	-19	-81
System Total		14730	14207	13936	13711	13463	13486	13353	13133	12999	12858	12891	12830	13030	13199	13206	12993	13504	14456	15123	15682	16096	16428	16776	16856	16710	16500	16365	16738	16975	17235	17264	17338	17311	17296	16943	16357	15836	15637	15814	16389	16568	16626	16430	16292	15853	15634	15309	14988
SRev ST-Coal		119	314	191	175	157	178	240	337	384	380	371	375	382	377	285	66	86	30	224	182	171	106	146	101	121	59	160	136	77	61	116	121	108	118	113	108	119	117	120	117	109	108	110	110	108	104	204	187
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	155	6	9	10	8	37	80	91	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		952	1233	1508	1637	1826	1805	1859	1899	2044	2152	2142	2153	2010	1790	1921	2136	1626	844	485	753	449	409	543	334	377	271	191	200	340	240	295	234	293	231	485	531	784	1008	761	395	360	305	529	454	634	587	792	970
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		
SRev Co-Gen		8	12	12	13	11	12	11	11	10	11	10	9	7	6	7	3	3	5	5	6	5	7	9	8	8	8	8	8	8	9	7	8	11	14	13	12	12	11	11	10	9	10	7	4	4	4	0	
Syncon		1180	1266	1115	1014	1165	1165	1165	1165	1014	1014	1165	1165	1250	1250	1099	1250	1099	1250	1079	928	777	500	500	187	777	777	374	374	525	525	525	525	525	651	1164	1351	1351	1351	963	711	711	711	711	948	1200	1200	1200	
Hydro		242	197	317	244	57	54	89	91	216	224	94	96	90	88	87	221	91	216	90	97	177	299	375	438	797	535	457	681	738	509	510	514	510	519	460	228	103	106	105	454	653	651	652	652	458	234	235	237
S.Reserve Total		2501	3022	3143	3083	3216	3214	3364	3503	3668	3781	3782	3798	3739	3511	3550	3525	3056	2194	2054	2117	1730	1598	1573	1381	1490	1650	1593	1554	1543	1352	1465	1409	1481	1484	1814	2044	2369	2594	2348	1940	1843	1784	2012	1934	2152	2129	2435	2594