



Daily System Generation Summary on Tuesday

Tuesday, October 03, 2017

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,791 MW
Hydro	2,088 MW
Distillate	0 MW
Total TNB	4,879 MW
Total IPP	15,730 MW
Total Co-Gen	60 MW
Total System	21,233 MW

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:00:00 Hour
Total Set On Bus	18,037 MW
TNB Generation	3,034 MW
IPP Generation	13,521 MW
Spinning Reserve	1,426 MW
Maximum Demand	16,603 MW
Net Energy	351,305 MWH
Load Factor	88.16 %

Gas Usage

Station	(mmscfd)
GLGR	49
PGPS	29
SRDG	3
TJGS	219
Total TNB	300
CBPS	54
NPRI	154
PGLA	109
PLPS	92
PTEK	13
SGB3	85
SGRI	83
YPKA	80
Total IPP	671
Total Gas	971

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Generation Mix

Type	MWh	Percentage
Gas	41,768	11.89 %
Hydro	20,016	5.70 %
Total TNB	61,784	17.59 %
ST-Coal	193,019	54.94 %
Gas	95,438	27.17 %
Total IPP	288,457	82.11 %
Co-Gen	1,389	0.40 %
Total Co-Gen	1,389	0.40 %
Total Generation	351,630	100.09 %
PLTG	-404	-0.11 %
HVDC	729	0.21 %
Interconnection	325	0.09 %
Net Energy	351,305	100.00 %

Fuel Cost

Total Cost:	58,549,974.83 RM
Cost per Unit	17.66 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	454
Hydro	377
Syncon	549
Thermal	165
Total	1,545

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Cloudy	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	13924	13235	12743	12413	12064	11971	12297	12381	12786	14540	15544	16117	16058	15675	16333	16603	16567	16239	15149	15291	16112	16005	15499	15139

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, October 25, 2017 3:51:07 PM

(Gurcharan Singh)
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	692	691	694	692	691	651	620	621	621	622	621	621	628	694	650	651	691	694	690	696	691	689	692	691	691	691	694	692	692	687	701	691	691	692	695	689	693	693	691	692	693	692	693	700	691	692	689	588				
JMAH	U002	694	694	694	692	691	652	622	623	623	623	622	625	635	692	652	650	694	694	693	695	698	692	694	695	694	695	694	691	693	694	694	694	696	694	695	694	694	693	692	694	693	692	694	695	693	693	694	694	692			
JMUG	U001	669	666	665	672	655	670	668	662	671	668	661	672	663	669	662	674	662	662	673	661	671	657	677	665	676	668	671	666	670	669	665	667	671	668	670	663	668	671	671	667	676	668	672	673	666	680	667	669				
JMUG	U002	673	676	677	670	679	676	678	678	672	679	676	674	678	673	675	678	670	677	672	678	677	670	673	677	675	678	677	679	673	672	674	676	677	674	673	672	674	674	673	673	676	671	677	674	676	678	675	669				
JMUG	U003	667	661	667	672	668	667	671	668	673	668	666	669	671	665	672	667	663	667	663	667	663	667	666	668	666	667	662	662	667	668	668	667	664	668	665	662	667	662	662	658	670	669	667	671	665	671	672	669	660	662	669	
JMUG	U005	898	901	902	801	806	804	804	800	750	750	752	751	752	752	752	801	801	854	853	850	866	986	983	985	985	985	981	982	983	981	983	980	983	980	979	983	980	980	985	980	983	983	983	983	981	981	985	983				
PKLG	U003	150	151	152	150	151	151	151	154	149	151	151	150	151	150	151	210	281	280	283	282	280	281	274	280	282	280	278	278	282	278	283	280	276	234	235	271	286	283	278	276	278	283	230	148	149							
PKLG	U004	148	150	150	148	149	150	150	152	151	150	150	149	151	150	151	150	197	261	283	281	281	281	281	277	279	279	278	281	280	281	282	283	282	282	233	231	260	280	280	281	280	280	280	234	153	150						
PKLG	U006	268	269	268	269	269	269	268	268	269	269	269	270	270	271	293	379	453	470	471	471	470	470	470	470	472	468	470	470	469	468	469	472	470	470	430	426	452	470	470	470	468	473	471	442	354	267						
TBIN	U001	689	689	688	689	689	619	620	619	620	619	620	619	650	691	650	649	690	690	689	689	690	686	689	690	690	690	689	688	690	687	689	690	689	689	692	689	689	690	691	689	689	689	689	689	689	691	691	691				
TBIN	U002	689	693	692	691	687	623	627	623	621	619	621	619	639	691	649	651	689	687	692	693	690	691	689	691	689	691	688	690	689	689	686	686	691	687	690	690	688	689	690	687	690	689	689	688	691	691	689	691	690			
TBIN	U003	692	689	691	689	692	644	624	622	624	619	618	619	635	692	650	650	688	689	691	688	687	687	692	690	689	689	690	688	687	688	690	689	689	688	691	691	690	689	689	688	691	691	689	690	687	691	689	691	690			
TBIN	U004	902	899	903	846	802	803	800	802	753	751	752	753	752	754	753	803	803	851	852	852	862	981	982	982	980	981	982	980	983	982	981	982	981	981	981	981	981	983	981	981	982	981	981	983	981	980	981	981				
Total ST-Coal		7831	7829	7843	7681	7629	7379	7304	7290	7197	7189	7179	7191	7272	7546	7335	7447	7635	7844	8028	8181	8239	8443	8467	8456	8461	8459	8465	8458	8459	8435	8457	8450	8455	8460	8460	8440	8313	8322	8419	8458	8475	8453	8465	8474	8461	8339	8083	7887				
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	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	0			
CBPS	BLK2	377	374	373	373	374	375	374	373	371	380	379	374	377	380	376	366	366	370	373	373	365	368	297	212	215	209	220	362	364	362	362	362	363	363	358	358	297	367	367	369	369	369	370	370	370	371	372					
GLGR	GT01	67	68	68	68	67	69	68	68	69	66	69	68	67	67	67	95	103	102	101	101	101	102	102	74	67	104	101	102	103	101	102	93	78	66	68	68	67	66	66	67	67	65	67	67	67	67	67					
GLGR	GT02	68	68	67	67	68	68	68	68	68	68	67	68	68	67	68	68	96	105	104	104	104	104	105	104	76	68	104	103	105	104	104	104	96	79	69	69	69	69	69	69	69	69	68	68	69	69	69	69				
GLGR	ST1C	72	72	71	71	71	71	71	71	71	71	71	71	71	71	71	70	86	93	93	94	94	94	94	84	71	94	93	94	94	94	90	84	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71					
NPRI	BLK1	503	504	518	518	520	520	518	520	518	517	509	521	517	512	449	431	440	497	503	487	498	503	497	499	497	503	505	500	504	500	505	503	486	503	503	505	503	503	505	505	505	505	505	505	505	505	505	505	491			
NPRI	BLK2	507	508	520	519	520	523	523	520	516	505	523	521	511	521	521	511	452	434	445	499	504	488	502	506	497	502	505	507	505	506	508	503	507	505	488	506	507	507	506	505	502	506	505	493	508	503	493					
PCGP	PGRG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118	384	395	381	375	394	392	371	389	383	386	386	384	386	384	385	290	396	216	0	0	0	0	0	0	0	0	0	0	0	0	0					
PGLA	GT11	214	195	179	213	170	158	164	153	151	155	154	166	190	154	167	171	222	216	218	218	219	214	218	220	217	218	217	219	219	220	219	219	219	219	219	219	211	216	217	217	220	219	219	219	221	216	221	219	217			
PGLA	GT12	214	194	178	212	169	157	164	153	151	155	155	165	188	154	168	170	221	216	214	214	217	211	213	214	215	213	215	212	213	214	213	213	214	213	213	214	215	208	215	215	215	216	218	215	217	220	215	218	219	215		
PGLA	ST10	232	213	220	234	211	199	195	199	196	194	194	197	216	190	202	193	238	241	245	245	248	239	245	247	247	247	247	246	246	247	247	247	247	247	247	247	247	247	247	247	247	247	247	247	245	244	244	244				
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	83	83	94	83	67	68	91	91	91	92	91	92	91	66	67	67	67	93	92	93	93	93	92	66	67	0	
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	79	80	80	79	82	83	87	85	94	83	95	83	68	68	91	91	91	91	91	91	91	66	66	67	67	93	93	94	93	94	93	94	68	68	72
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	38	40	46	63	96	91	69	66	91	89	88	88	88	88	88	88	88	88	88	88	65	61	61	60	88	89	89	90	90	90	66	62	31			
PLPS	GT11	132	128	114	66	66	65	65	64	66	65	65	65	66	65	66	66	115	130	133	130	134	130	135	135	132	133	136	136	136	136	135	136	134	135	129	123	115	131	131	131	132	127	132	130	126	130	132	129				
PLPS	GT12	135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	107	140	144	138	143	142	140	138	142	142	140	139	139	139	139	139	139	133	127	120	137	137														

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 Co-Gen		58	58	59	59	61	58	59	61	60	59	60	59	62	61	60	60	57	55	58	55	55	55	55	57	56	55	55	55	52	56	57	56	55	55	55	57	62	59	60	59	61	60	60	61	60	59			
Total Gen		13923	13583	13236	12915	12747	12467	12415	12272	12085	12012	11968	12155	12351	12602	12428	12377	12835	13836	14543	15030	15549	15947	16162	16263	16071	15855	15698	15999	16339	16573	16611	16568	16571	16643	16290	15748	15188	14938	15296	16084	16092	16211	16010	15878	15555	15358	15128	14686	
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	30	30	31	31	31	31	30	30	30	30	31	31	30	30	31	31	31	31	31	30	30	31	31	30	30	30	30	30	31	31	31	31	30	30	30	30	30	29	29	31	31	31	31	30	30			
TIE-PLTG		-31	-34	-29	-35	-27	-47	-28	-26	-10	32	-33	-23	24	-10	17	-9	18	-34	-28	-43	-26	26	15	-30	-18	-48	-7	2	-24	28	-22	-15	-27	34	21	45	8	-44	-25	-84	-50	4	-24	-66	25	-98	-42	-9	
Interconnection		-1	-4	1	-4	4	-16	2	4	21	62	-3	8	54	20	47	22	49	-3	3	-12	5	56	45	1	13	-18	23	32	6	58	8	16	4	65	51	75	39	-14	5	-55	-20	33	5	-35	56	-66	-11	21	
System Total		13924	13587	13235	12919	12743	12483	12413	12268	12064	11950	11971	12147	12297	12582	12381	12355	12786	13839	14540	15042	15544	15891	16117	16262	16058	15873	15675	15967	16333	16515	16603	16552	16567	16578	16239	15673	15149	14952	15291	16139	16112	16178	16005	15913	15499	15424	15139	14665	
SRev ST-Coal		405	414	399	405	421	651	708	714	706	706	718	709	671	402	610	602	437	414	375	315	283	151	127	138	133	135	129	136	135	159	137	144	139	134	134	154	242	233	175	136	119	141	129	120	133	213	244	252	
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	-3	-5	-5	-4	-6	-7	-6	-6	-8	-7	58	0	0	0	0	-1	-1	0	0	0	0
SRev CCGT-Gas		666	632	920	996	1115	1129	1107	1237	1334	1368	1422	1231	1113	1234	1216	1376	1209	815	627	582	559	525	379	372	649	466	624	430	355	326	313	361	360	399	440	775	748	835	532	294	536	390	458	443	605	578	530	630	
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	0
SRev Co-Gen		2	2	1	1	1	-1	2	1	-1	0	1	0	1	-2	-1	0	3	5	2	5	5	5	5	3	4	5	5	5	8	4	3	4	5	5	5	5	5	3	-2	1	0	1	-1	0	0	-1	0	1	
Syncon		651	651	651	737	737	888	888	888	888	888	737	888	973	973	822	822	973	973	822	802	651	802	802	651	651	651	651	651	651	651	651	651	500	500	500	802	802	802	464	126	126	126	313	313	651	802	802		
Hydro		362	312	312	247	244	111	107	107	106	136	266	132	133	134	265	267	143	150	226	123	216	97	302	348	314	555	559	556	557	325	325	316	319	362	524	513	270	271	268	442	671	675	573	441	465	230	100	111	
S.Reserve Total		2086	2011	2283	2386	2518	2778	2812	2947	3033	3098	3144	2960	2891	2741	2912	3067	2762	2355	2055	1824	1714	1580	1615	1514	1750	1811	1968	1775	1698	1464	1426	1469	1466	1394	1597	1939	2060	2202	1775	1337	1452	1333	1284	1316	1516	1671	1676	1796	

Daily MWH Generation on Tuesday

Station	Unit	Fuel Type	Calculated MWH
JMAH	U001	ST-Coal	16,253
JMAH	U002	ST-Coal	16,345
			32,598
JMJG	U001	ST-Coal	16,033
JMJG	U002	ST-Coal	16,198
JMJG	U003	ST-Coal	16,000
JMJG	U005	ST-Coal	21,763
			69,994
PKLG	U003	ST-Coal	5,317
PKLG	U004	ST-Coal	5,295
PKLG	U006	ST-Coal	9,306
			19,918
TBIN	U001	ST-Coal	16,241
TBIN	U002	ST-Coal	16,247
TBIN	U003	ST-Coal	16,246
TBIN	U004	ST-Coal	21,775
			70,509
Subtotal			193,019
CBPS	BLK2	CCGT-Gas	8,527
			8,527
GLGR	GT01	CCGT-Gas	1,876
GLGR	GT02	CCGT-Gas	1,907
GLGR	ST1C	CCGT-Gas	1,883
			5,666
NPRI	BLK1	CCGT-Gas	12,030
NPRI	BLK2	CCGT-Gas	12,086
			24,116
PGLA	GT11	CCGT-Gas	4,868
PGLA	GT12	CCGT-Gas	4,811
PGLA	ST10	CCGT-Gas	5,566
			15,245
PGPS	GT3A	CCGT-Gas	1,073
PGPS	GT3B	CCGT-Gas	1,446
PGPS	ST3C	CCGT-Gas	1,038
			3,557
PLPS	GT11	CCGT-Gas	2,708
PLPS	GT12	CCGT-Gas	2,110
PLPS	GT13	CCGT-Gas	2,618
PLPS	ST18	CCGT-Gas	4,057
			11,493
SGRI	GT21	CCGT-Gas	2,344
SGRI	GT22	CCGT-Gas	2,503
SGRI	GT23	CCGT-Gas	1,592
SGRI	ST24	CCGT-Gas	3,877
			10,316
SGB3	GT31	CCGT-Gas	1,634
SGB3	GT32	CCGT-Gas	2,592
SGB3	GT33	CCGT-Gas	2,490

Daily MWH Generation on Tuesday

Station	Unit	Fuel Type	Calculated MWH
SGB3	ST34	CCGT-Gas	3,973
			10,689
TJGS	GT1A	CCGT-Gas	5,263
TJGS	GT1B	CCGT-Gas	4,979
TJGS	ST1C	CCGT-Gas	5,884
TJGS	GT2A	CCGT-Gas	5,071
TJGS	GT2B	CCGT-Gas	4,976
TJGS	ST2C	CCGT-Gas	6,125
			32,298
YPKA	GT11	CCGT-Gas	1,969
YPKA	GT12	CCGT-Gas	2,530
YPKA	ST10	CCGT-Gas	2,185
YPKA	GT21	CCGT-Gas	2,559
YPKA	ST20	CCGT-Gas	1,333
			10,576
Subtotal			132,483
PTEK	GT2A	OCCGT-Gas	557
PTEK	GT2B	OCCGT-Gas	522
			1,079
SRDG	GT05	OCCGT-Gas	247
			247
Subtotal			1,326
BSIA	HY01	Hydro	221
BSIA	HY02	Hydro	309
BSIA	HY03	Hydro	319
			849
CEND	HY01	Hydro	221
CEND	HY02	Hydro	202
CEND	HY03	Hydro	239
CEND	HY04	Hydro	191
			853
KNRG	HY01	Hydro	575
KNRG	HY02	Hydro	817
KNRG	HY03	Hydro	784
			2,176
KNYR	HY01	Hydro	2,337
KNYR	HY02	Hydro	2,377
KNYR	HY03	Hydro	2,384
KNYR	HY04	Hydro	2,303
			9,401
LPIA	HY01	Hydro	364
LPIA	HY02	Hydro	354
			718
MNOR	HY01	Hydro	83
			83
PGAU	HY01	Hydro	95
PGAU	HY02	Hydro	175

Daily MWH Generation on Tuesday

Station	Unit	Fuel Type	Calculated MWH
PGAU	HY03	Hydro	354
			624
SIHY	HY01	Hydro	400
SIHY	HY02	Hydro	407
			807
SYPS	HY01	Hydro	155
SYPS	HY02	Hydro	163
SYPS	HY03	Hydro	163
SYPS	HY04	Hydro	163
			644
TMGR	HY01	Hydro	1,007
TMGR	HY03	Hydro	975
TMGR	HY04	Hydro	1,308
			3,290
UTIL	HY01	Hydro	179
UTIL	HY02	Hydro	224
			403
UPIA	HY01	Hydro	168
			168
Subtotal			20,016
PCUF	CUFG	Co-Gen	697
PCUF	CUFK	Co-Gen	692
Subtotal			1,389
TIEL	PLTG	PLTG	-404
TIEL	HVDC	HVDC	729
Subtotal			325
Calculated Net Energy			351,305