

Daily System Generation Summary on Tuesday

Tuesday, November 17, 2015

Availability at Daily Maximum Demand Hour

ST-Coal	1,150 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,221 MW
Hydro	1,821 MW
Distillate	0 MW
Total TNB	7,192 MW
Total IPP	10,025 MW
Total Co-Gen	40 MW
Total System	17,827 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	39,799	12.19 %
Gas	72,726	22.27 %
Hydro	14,858	4.55 %
Total TNB	127,383	39.01 %
ST-Coal	118,924	36.42 %
Gas	79,528	24.36 %
Total IPP	198,452	60.78 %
Co-Gen	781	0.24 %
Total Co-Gen	781	0.24 %
Total Generation	326,616	100.03 %
PLTG	-622	-0.19 %
HVDC	729	0.22 %
Interconnection	107	0.03 %
Net Energy	326,509	100.00 %

Maximum Demand Record

Date: 6/11/2014	16,901 MW
Date: 6/24/2014	355,911 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	14:30:00 Hour
Total Set On Bus	16,727 MW
TNB Generation	6,478 MW
IPP Generation	9,342 MW
Spinning Reserve	875 MW
Maximum Demand	15,874 MW
Net Energy	326,509 MWH
Load Factor	85.70 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	417
Hydro	348
Syncon	374
Thermal	57
Total	1,196

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
CBPS	14
CBPS	48
GLGR	49
NPRI	51
PAKA	144
PGGS	15
SRDG	23
TJGS	216
Total TNB	562

KLPP	102
MPSS	51
PDPS	30
PGLA	34
PKLG	15
PLPS	99
PTEK	24
SGB3	87
SGRI	161
SKSP	54
Total IPP	657

Total Gas 1,219

Total Gas Required 1,219

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	12509	11903	11515	11259	11113	11093	11452	11507	12064	13715	14572	15169	15230	14961	15588	15734	15681	15249	14209	14407	14774	14580	14040	13596

Prepared By: Ibrahim bin Said

Checked By: Kannathason a/l Karuppiah

Printed on: Wednesday, November 18, 2015
8:20:39 AM

(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	697	699	697	698	697	703	698	700	699	697	697	699	698	699	701	699	698	697	698	694	695	694	695	695	695	697	697	695	695	700	697	696																		
JMAH	U002	701	703	706	701	704	712	705	701	705	703	702	705	700	703	704	705	706	696	705	706	707	703	703	705	715	702	703	702	705	702	705	706	703	705	703	703	700	703	701	703	704	702								
JMJG	U001	681	671	632	637	640	633	631	632	637	593	593	593	599	596	592	596	569	555	539	544	550	546	546	517	491	497	495	497	493	555	576	585	592	598	595	598	598	596	594	596	593	594	590	597	592	591	629	687		
JMJG	U002	678	674	634	644	644	646	643	650	592	592	595	594	593	596	596	592	594	596	594	596	592	593	593	593	596	594	596	598	593	594	596	596	594	596	595	618	597	592	602	596	593	597	544	548	555	548	549	542		
JMJG	U004	789	793	791	792	790	791	791	791	790	792	792	790	791	793	791	791	792	792	789	814	857	855	860	857	859	857	858	858	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	U003	283	225	203	207	205	205	225	271	280	279	281	280	281	279	281	280	285	281	281	280	283	282	281	283	282	281	283	281	283	283	283	279	281	281	282	281	283	283	283	279	281	282	281	283	283	281	277	283		
PKLG	U004	281	279	279	277	277	278	279	273	279	279	281	281	279	279	277	279	278	279	278	279	277	277	277	277	275	277	277	275	272	275	275	273	277	275	277	277	278	278	279	279	279	279	275	271	271	275	275	276	277	278
PKLG	U005	441	441	444	444	444	444	444	443	443	443	444	443	444	444	444	444	441	447	447	443	449	446	442	444	444	444	445	444	444	444	444	444	444	444	444	444	444	446	441	444	443	450	443	443	443	444	443	442		
PKLG	U006	467	470	470	470	467	467	467	467	467	467	472	465	468	468	465	468	468	472	465	465	467	468	464	470	474	467	470	474	472	468	472	472	472	472	472	472	471	464	464	467	470	467	467	474	480	464	466	482	467	474
TBIN	U001	695	699	696	695	697	697	696	695	697	693	702	697	698	697	696	693	696	695	695	696	694	698	697	696	695	695	700	696	695	696	696	696	693	697	691	696	698	696	695	696	697	697	697	698	694	694	695	699		
TBIN	U002	696	698	696	699	699	699	701	702	697	698	698	696	699	699	698	697	700	700	697	700	697	696	699	698	693	698	696	698	696	697	695	702	697	694	699	697	696	702	696	692	698	698	696	702	695	700	702	694		
TBIN	U003	699	700	696	698	699	697	701	700	699	695	700	699	696	696	697	697	702	696	697	695	727	698	695	696	697	699	700	695	695	698	698	696	697	699	703	699	694	696	697	698	697	698	698	698	697	696	701			
Total ST-Coal		7108	7052	6944	6962	6963	6972	6981	7025	6985	6933	6957	6935	6952	6940	6944	6941	6930	6911	6872	6918	6960	6981	6965	6932	6902	6928	6921	6916	6036	6112	6133	6151	6142	6153	6151	6178	6156	6156	6150	6148	6143	6160	6097	6106	6097	6116	6136	6198		
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	0
CBPS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	GT1B	89	89	89	89	89	89	89	90	89	89	89	89	90	89	92	96	96	94	94	94	93	93	92	91	91	91	91	92	91	91	94	96	96	96	96	96	96	96	96	95	95	95	95	95	95	95	95	95	95	
CBPS	ST1C	39	39	38	40	40	38	40	40	40	40	39	40	39	39	39	43	84	102	103	102	102	101	101	101	101	100	99	99	99	98	96	96	102	100	102	103	103	103	102	102	102	102	102	102	102	102	101	102	102	
CBPS	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT01	107	107	107	108	107	107	107	108	108	108	107	107	108	107	108	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107		
GLGR	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	ST1C	46	47	46	46	46	45	46	46	46	46	46	46	46	46	47	46	46	47	40	86	98	100	99	99	99	98	98	97	96	98	99	100	100	100	100	101	101	100	100	100	100	100	100	100	100	100	100	100	100	
KLPP	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT13	132	107	107	107	69	70	71	71	70	71	69	70	69	71	71	69	104	129	132	130	134	135	135	136	137	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	136	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	150	120	120	119	77	78	78	78	78	79	79	79	79	79	78	112	136	148	147	147	147	147	146	146	150	150	148	148	148	148	148	148	149	150	149	149	149	150	149	149	149	149	148	148	149	149	148	148	148	
KLPP	ST17	132	116	116	116	92	88	88	87	92	88	88	86	86	88	84	92	128	193	207	208	216	228	228	230	230	232	232	231	229	231	231	230	230	228	228	228	228	226	226	226	226	226	226	229	229	229	229	229	225	200
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MPSS	GT02	107	107	106	106	106	105	105	105	105	105	104	103	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	
MPSS	ST01	81	49	49	49	49	49	49	50	50	50	50	49	49	49	50	47	53	84	112	112	112	112	112	112	112	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	
NPRI	BLK1	57	59	59	56	56	59	56	77	74	77	77	75	76	137	253	247	536	577	568	561	391	394	392	391	392	401	570	566	566	566	564	511	511																	

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
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	GT32	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
SGB3	GT33	68	62	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
SGB3	ST34	116	95	93	93	92	92	92	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
SGRI	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
SGRI	GT12	111	110	113	109	112	110	110	67	66	66	66	66	66	110	110	108	107	126	111	122	132	113	142	134
SGRI	GT13	109	109	109	110	109	111	111	60	59	59	59	59	59	103	104	103	103	126	113	118	128	114	136	129
SGRI	ST14	132	134	132	133	137	132	134	92	93	90	91	91	91	128	131	140	135	170	196	209	215	193	216	214
SGRI	GT21	112	113	113	112	60	60	59	62	61	59	60	59	62	106	105	103	112	115	113	116	113	115	116	116
SGRI	GT22	111	110	113	110	66	65	65	65	65	65	65	66	111	110	110	108	112	111	120	118	112	121	114	113
SGRI	ST24	136	135	132	135	108	102	103	99	99	102	101	101	98	131	132	134	135	138	134	139	145	133	138	136
SKSP	BLK1	213	215	222	214	236	214	215	219	211	213	212	223	250	244	215	212	266	305	212	240	348	346	347	347
TJGS	GT1A	207	216	227	197	222	189	193	201	193	198	198	205	217	228	197	197	197	191	192	214	229	228	225	225
TJGS	GT1B	196	203	212	184	214	178	184	189	182	183	184	195	213	215	184	184	185	178	180	213	217	217	217	217
TJGS	ST1C	232	243	246	224	236	234	227	226	232	225	221	221	233	255	227	223	224	241	226	241	256	256	256	256
TJGS	GT2A	190	190	191	189	203	190	187	194	188	189	190	196	207	213	191	191	209	226	226	223	223	223	223	223
TJGS	GT2B	187	185	188	184	197	184	183	190	185	185	185	190	205	203	188	187	137	205	220	220	220	220	220	220
TJGS	ST2C	241	242	240	240	249	238	241	244	242	239	236	239	252	253	239	237	226	232	262	262	262	262	262	262
Total CCGT-Gas		4848	4562	4525	4337	4106	3980	3893	3703	3675	3667	3761	3811	4047	4324	4263	4277	4900	5933	6383	6770	6814	6763	6875	6869
CBPS	GT03	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	GT05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDPS	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PGGS	GT6A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	GT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	GT09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDG	GT05	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 OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	301	323	460	486	464
BSIA	HY01	15	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
BSIA	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
BSIA	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
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY01	28	28	28	28	28	28	28	27	27	27	28	28	28	27	27	27	28	28	29	28	28	21	21	21
KNRG	HY02	25	26	25	25	26	25	26	25	25	25	26	26	25	26	24	0	0	0	0	0	0	23	22	23
KNRG	HY03	26	27	26	26	26	26	26	25	25	26	27	26	26	25	0	0	0	0	0	0	0	0	0	0
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	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

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	
KNYR	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	
KNYR	HY04	61	61	62	62	61	61	62	62	60	57	54	60	64	68	62	57	51	56	104	103	104	104	104	97	97
LPIA	HY01	20	20	19	17	17	17	17	17	17	17	17	17	17	17	20	20	20	20	20	20	20	20	20	20	20
LPIA	HY02	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
MNOR	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	5	5	5	5	5	5	5	5	5	5	5	5
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	113	83	83	20	20	144	112
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	110	20	20	20	20	109	109
PGAU	HY03	-1	-1	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	-1	-1	-1	-1	110	20	20	20	19	-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	50	50	50	50	50	50	50	50	49	50	50	50	49	50	50	0	0	0	0	0	0	0	0	0	
SIHY	HY02	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
SYPS	HY01	25	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	25	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	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	25	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	32	34	35	31	33	33	34	41	38	33	33	39	44	44	38	37	28	30	28	37	39	36	38	41	
TMGR	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	
TMGR	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	
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	
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		466	369	368	385	364	364	365	373	387	377	354	382	378	383	368	311	276	331	496	490	613	815	955	1073	
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	
PCUF	CUEG	5	5	5	5	6	4	5	5	5	6	6	5	5	5	5	4	4	5	7	7	6	6	6	6	
PCUF	CUEK	25	27	27	26	27	27	26	25	26	25	28	26	27	28	27	26	27	28	28	26	27	25	28	26	
Total Co-Gen		30	32	32	31	32	33	30	30	31	30	34	32	32	31	33	34	33	31	32	32	32	32	31	34	
Total Gen		12452	12015	11869	11715	11465	11349	11269	11151	11078	11007	11106	11160	11409	11678	11606	11562	12140	13208	13782	14210	14634	14892	15150	15366	
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	
TIE-HVDC		31	31	30	30	30	30	30	30	30	30	31	31	31	31	31	31	30	30	30	30	30	30	30	30	
TIE-PLTG		-87	-93	-64	-30	-81	-65	-20	-45	-64	-8	-18	37	-74	12	68	6	45	14	36	-67	-68	-21	-49		
Interconnection		-57	-63	-34	0	-50	-35	10	-15	-35	22	13	68	-43	43	99	37	76	45	67	-37	-38	9	-19		
System Total		12509	12078	11903	11715	11515	11384	11289	11146	11113	10985	11093	11092	11452	11635	11507	11525	12064	13163	13715	14247	14572	14883	15169	15369	
SRev ST-Coal		132	157	243	229	226	218	228	215	226	250	229	250	238	252	116	122	111	131	136	115	116	95	114	144	
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	
SRev CCGT-Gas		789	1055	1092	1150	1381	1507	1594	1554	1582	1590	1726	1676	1440	1228	1289	1356	1403	907	844	518	304	335	235	269	
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	
SRev Co-Gen		10	8	9	8	7	10	10	9	10	6	8	8	9	7	6	7	9	8	8	8	9	6	8	7	
Syncon		827	827	827	676	827	827	827	676	676	827	827	827	827	827	827	827	827	726	575	625	625	625	625	323	
Hydro		139	136	136	268	138	138	137	129	266	276	148	205	124	119	134	141	179	147	233	89	66	337	236	295	
S.Reserve Total		1897	2183	2306	2332	2580	2697	2796	2735	2759	2802	2936	2966	2637	2435	2375	2453	2526	1918	1797	1355	1232	1425	1221	1125	