

Daily System Generation Summary on Saturday

Saturday, May 21, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,490 MW
Hydro	1,855 MW
Distillate	0 MW
Total TNB	5,345 MW
Total IPP	13,637 MW
Total Co-Gen	27 MW
Total System	19,464 MW

Generation Mix

Type	MWh	Percentage
Gas	51,988	16.57 %
Hydro	6,826	2.18 %
Total TNB	58,814	18.74 %
ST-Coal	168,698	53.76 %
Gas	84,917	27.06 %
Total IPP	253,615	80.82 %
Co-Gen	454	0.14 %
Total Co-Gen	454	0.14 %
Total Generation	312,883	99.71 %
PLTG	-221	-0.07 %
HVDC	-698	-0.22 %
Interconnection	-919	-0.29 %
Net Energy	313,802	100.00 %

Maximum Demand Record

Date: 4/20/2016	17,788 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	00:00:00 Hour
Total Set On Bus	16,304 MW
TNB Generation	3,169 MW
IPP Generation	11,255 MW
Spinning Reserve	1,864 MW
Maximum Demand	14,405 MW
Net Energy	313,802 MWH
Load Factor	90.77 %

Fuel Cost

Total Cost:	38,769,412.65 RM
Cost per Unit	12.67 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	604
Hydro	149
Syncon	755
Thermal	139
Total	1,647

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
CBPS	18
GLGR	50
PAKA	60
PGPS	38
SRDG	3
TJGS	217
Total TNB	386
KLPP	75
NPRI	147
PGLA	108
PLPS	93
PTEK	5
SGB3	1
SGRI	155
SKSP	50
Total IPP	635
Total Gas	1,021
Total Gas Required	1,021

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	14405	13689	13296	12804	12420	12009	11895	11458	11116	12021	12734	13247	13227	13045	13415	13485	13465	13227	12961	13272	14255	14218	13974	13776

Prepared By: Ibrahim bin Said

Checked By: Kannathason a/l Karupiah

Printed on: Sunday, May 22, 2016 8:56:03 AM

(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Saturday

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	GT33	111	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	ST34	67	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	GT11	113	113	137	140	141	113	112	68	68	68	68	67	67	67	67	105	145	113	117	116	113	120	116	121	125
SGRI	GT12	118	118	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT13	112	112	134	134	135	112	112	71	66	68	66	67	67	67	67	106	139	113	117	113	115	119	118	120	127
SGRI	ST14	197	197	191	154	150	136	136	135	117	101	98	102	100	102	101	101	103	103	101	123	153	132	133	136	131
SGRI	GT21	136	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	GT22	140	140	139	139	139	139	140	100	71	71	70	71	71	71	71	71	123	118	130	130	116	133	140	139	139
SGRI	GT23	127	123	124	134	125	125	124	95	65	65	65	65	65	65	65	65	118	111	120	119	112	123	123	122	126
SGRI	ST24	215	171	145	148	145	145	147	131	97	96	97	98	98	98	98	97	97	97	97	97	135	130	142	144	134
SKSP	BLK1	303	302	302	303	303	301	217	217	220	217	218	219	219	218	220	219	218	217	217	218	216	256	297	298	296
TJGS	GT1A	220	223	220	220	220	223	220	229	231	230	227	220	204	114	122	122	231	231	231	231	231	228	228	225	225
TJGS	GT1B	215	215	215	215	215	215	211	221	221	219	216	210	195	109	112	112	217	216	220	220	220	220	221	217	217
TJGS	ST1C	248	248	248	248	248	245	245	249	252	248	242	227	229	187	161	161	243	241	252	252	252	252	252	252	252
TJGS	GT2A	212	212	212	214	214	214	214	218	222	222	203	186	186	186	138	138	137	137	223	223	223	220	220	218	216
TJGS	GT2B	211	211	211	211	211	211	211	221	221	201	183	183	183	133	133	133	133	221	221	221	221	221	221	217	217
TJGS	ST2C	259	259	259	259	257	257	257	257	259	262	242	237	237	237	211	211	211	264	264	264	264	261	261	261	261
Total CCGT-Gas		7096	6677	6384	6073	5970	5902	5681	5423	5182	4992	4770	4723	4680	4646	4281	3998	4006	4484	4889	5268	5578	5861	5925	5927	5868
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	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	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	0
Total CCGT-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
BSIA	HY02	11	11	12	12	12	12	11	11	12	12	12	12	12	12	12	12	12	11	11	12	12	12	12	12	12
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	10
CEND	HY02	10	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	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	9
CEND	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	0
HTRG	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	-1
KNRG	HY02	20	21	21	23	21	21	20	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
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	-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	-1
KNYR	HY03	0	0	61	99	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY04	57	59	69	101	78	60	58	58	79	86	72	71	73	73	63	55	55	78	68	85	80	57	64	72	59
LPJA	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	10
LPJA	HY02	11	11	11	11	9	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	4	4
PGAU	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	-1
PGAU	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	-1
PGAU	HY04	20	20	20	146	23	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	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	0
SIHY	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	0
SIHY	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	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	25	11	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	0	0	0	0	0
SYPS	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	0
SYPS	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	0
TMGR	HY01	34	39	41	48	39	37	35	34	39	42	38	38	39	40	37	30	31	39	41	40	40	34	40	39	33

Daily MW Generation on Saturday

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																											
TMGR	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																											
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																											
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5																											
Total Hydro		192	200	274	479	321	204	176	173	217	250	232	231	234	236	245	232	213	237	229	246	241	193	205	292	259	243	232	259	309	343	335	343	335	322	205	205	208	223	243	618	433	435	401	420	388	384	251	199			
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	0	0	0	
PCUF	CUPG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	CUPK	16	17	16	17	18	17	17	17	17	17	16	17	17	17	16	17	17	17	17	16	16	16	16	17	17	17	17	17	16	16	16	16	16	16	16	17	17	18	17	17	18	17	18	17	18	17	18	17	17	17	
Total Co-Gen		16	17	16	17	18	17	17	17	17	16	17	18	17	17	19	21	26	26	24	24	21	20	19	18	17	17	17	17	18	18	19	20	18	18	19	20	21	20	19	22	21	20	19	22	21	20	21	21	20		
Total Gen		14440	14056	13702	13524	13263	13068	12778	12581	12332	12168	11928	11889	11805	11763	11417	11112	11100	11601	11997	12395	12711	13022	13232	13314	13213	13018	13018	13213	13353	13487	13477	13436	13419	13447	13213	13022	12946	12964	13221	14207	14223	14233	14145	14109	13900	13796	13689	13545			
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	0	0	
TIE-HVDC		-29	-29	-29	-29	-29	-30	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29		
TIE-PLTG		65	27	42	-22	-3	23	3	-26	-60	-20	-51	-11	-61	-12	-11	22	12	56	4	6	7	25	15	-29	14	-39	2	-43	-32	-20	21	-30	-18	27	16	-5	14	15	-22	11	-2	-79	-44	-39	-46	-88	-58	3			
Interconnection		35	-2	13	-51	-33	-7	-26	-55	-88	-48	-81	-41	-90	-41	-41	-8	-16	27	-24	-23	-23	-5	-15	-57	-14	-68	-27	-72	-62	-50	-8	-59	-46	-2	-14	-34	-15	-15	-51	-18	-32	-108	-73	-68	-74	-116	-87	-26			
System Total		14405	14058	13689	13575	13296	13075	12804	12636	12420	12216	12009	11930	11895	11804	11488	11120	11116	11574	12021	12418	12734	13027	13247	13371	13227	13086	13045	13285	13415	13537	13485	13495	13465	13449	13227	13056	12961	12979	13272	14225	14255	14341	14218	14177	13974	13912	13776	13571			
SRev ST-Coal		88	62	198	273	273	286	260	272	276	278	278	271	272	278	268	208	212	211	212	214	206	205	217	224	44	37	47	42	15	20	17	15	32	202	242	242	244	226	207	235	252	246	248	247	242	219	191	217			
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	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		701	688	686	226	232	300	521	779	1020	1210	1432	1479	1522	1556	1921	2204	2196	1718	1313	934	828	545	481	479	538	723	797	903	744	541	546	598	550	555	679	866	943	958	741	292	273	231	278	251	329	236	238	302			
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	0	0
SRev Co-Gen		11	10	11	10	9	10	10	10	10	10	10	9	10	8	6	1	1	3	3	6	7	8	9	10	10	10	9	9	8	7	9	9	8	7	9	9	8	7	6	7	8	5	6	7	6	6	7				
Syncon		804	804	804	804	804	804	804	804	804	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653	653		
Hydro		260	252	278	73	231	248	126	129	85	203	221	222	219	217	359	372	240	216	224	207	212	239	151	89	122	88	99	72	97	239	96	113	96	109	126	126	123	118	109	35	220	67	101	82	114	68	202	111			
S.Reserve Total		1864	1816	1977	1386	1549	1648	1721	1994	2195	2354	2595	2635	2675	2714	3060	3296	3310	2808	2410	2614	1900	1660	1673	1616	1531	1676	1772	1847	1687	1480	1490	1556	1508	1695	1875	2064	2140	2121	1864	1292	1427	1412	1496	1429	1513	1329	1286	1437			