

Daily System Generation Summary on Friday

Friday, November 27, 2015

Availability at Daily Maximum Demand Hour

ST-Coal	2,250 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,113 MW
Hydro	1,956 MW
Distillate	0 MW
Total TNB	8,319 MW
Total IPP	10,408 MW
Total Co-Gen	0 MW
Total System	19,297 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	50,012	15.75 %
Gas	58,959	18.57 %
Hydro	10,179	3.21 %
Total TNB	119,150	37.53 %
ST-Coal	119,025	37.49 %
Gas	76,703	24.16 %
Total IPP	195,728	61.65 %
Co-Gen	1,745	0.55 %
Total Co-Gen	1,745	0.55 %
Total Generation	316,623	99.73 %
PLTG	-165	-0.05 %
HVDC	-699	-0.22 %
Interconnection	-864	-0.27 %
Net Energy	317,487	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:	16:30:00 Hour
Total Set On Bus	16,064 MW
TNB Generation	5,739 MW
IPP Generation	8,920 MW
Spinning Reserve	1,324 MW
Maximum Demand	14,804 MW
Net Energy	317,487 MWH
Load Factor	89.36 %

Fuel Cost

Total Cost:	40,659,779.50 RM
Cost per Unit	13.27 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	387
Hydro	185
Syncon	785
Thermal	133
Total	1,490

Time	Weather	Temperature
Afternoon	Hot	31
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
CBPS	45
GLGR	54
NPRI	37
PAKA	96
TJGS	205
Total TNB	437
KLPP	93
MPSS	50
PGLA	57
PLPS	79
SGB3	85
SGRI	181
SKSP	52
Total IPP	599
Total Gas	1,035

Total Gas Required 1,035

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	12668	12133	11924	11443	11108	11036	11131	11268	11727	13232	14046	14515	14610	14086	14218	14674	14717	14539	13843	14170	14454	14250	13703	13213

Prepared By: Ibrahim bin Said

Checked By: Kannathason a/l Karupiah

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(Gurcharan Singh)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Friday

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 Hydro		272	264	282	268	279	255	280	288	253	264	261	263	284	315	291	297	260	293	201	224	312	611	713	741	617	455	436	356	475	479	499	519	520	609	495	486	494	536	593	740	638	612	577	472	464	505	381	271				
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	CUFG	50	50	49	50	51	51	51	50	51	50	51	51	51	51	51	52	51	52	52	51	51	51	51	51	51	51	51	50	51	51	50	51	51	50	51	50	50	52	52	52	52	51	51	51	50	51	51					
PCUF	CUFK	24	26	24	26	26	26	25	24	26	27	25	11	10	10	10	11	10	10	12	10	11	11	11	11	11	11	12	13	15	26	28	27	27	30	30	29	30	31	31	30	29	29	32	29	31	28	28	31				
Total Co-Gen		74	76	73	76	77	77	77	75	75	76	78	76	62	61	61	61	62	63	61	62	64	61	62	62	62	62	63	63	65	77	80	78	77	81	81	79	81	81	81	82	81	81	83	80	82	78	79	82				
Total Gen		12668	12414	12118	11941	11850	11575	11331	11284	11139	11188	11063	11080	11170	11303	11266	11327	11702	12585	13227	13607	13988	14367	14478	14619	14551	14300	14094	14070	14226	14549	14620	14701	14669	14740	14507	14227	13836	13717	14066	14534	14408	14368	14209	14021	13713	13351	13201	12989				
TIE-BGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	-28	-28	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30		
TIE-PLTG		29	-14	13	-55	-45	-1	-82	-44	60	-5	57	62	68	11	27	-33	4	-18	24	-38	-29	-15	-8	-40	-30	-97	37	19	37	-25	-25	-55	-19	-35	-3	20	22	25	-74	-54	-16	-36	-12	50	39	-13	17	-29				
Interconnection		0	-42	-15	-84	-74	-31	-112	-73	31	-34	27	34	39	-18	-2	-62	-25	-47	-5	-67	-58	-44	-37	-69	-59	-126	8	-10	8	-55	-54	-83	-48	-64	-32	-9	-7	-5	-104	-84	-46	-65	-41	21	10	-42	-12	-59				
System Total		12668	12456	12133	12025	11924	11696	11443	11357	11108	11142	11036	11046	11131	11321	11268	11389	11727	12632	13232	13674	14046	14411	14515	14688	14610	14426	14086	14080	14218	14604	14674	14784	14717	14804	14539	14236	13843	13722	14170	14618	14454	14433	14250	14000	13703	13393	13213	13048				
SRev ST-Coal		71	86	129	50	21	50	49	43	118	55	76	64	40	35	0	151	158	148	170	114	128	162	154	167	129	109	122	138	111	137	146	138	142	130	134	142	114	130	-27	135	127	127	94	85	134	117	100	94				
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		391	555	823	975	1107	1329	1599	1658	1693	1799	1822	1817	1758	1660	1708	1619	1679	1386	1022	776	515	390	395	276	203	342	503	460	462	407	420	350	373	405	511	651	870	998	367	0	24	34	187	262	345	640	604	489				
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	0
SRev Co-Gen		-74	-76	-73	-76	-77	-77	-77	-75	-76	-78	-76	-62	-61	-61	-61	-62	-63	-61	-62	-64	-61	-62	-62	-62	-62	-63	-63	-65	-77	-80	-78	-77	-81	-81	-79	-81	-81	-81	-81	-82	-81	-81	-83	-80	-82	-78	-79	-82				
Syncon		676	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827	827			
Hydro		224	104	111	125	114	138	113	256	140	129	132	130	109	78	98	243	129	86	128	105	142	244	91	117	116	93	112	344	174	170	150	130	129	194	308	317	309	322	265	118	220	246	281	135	143	102	101	61				
S.Reserve Total		1288	1496	1817	1901	1992	2267	2511	2558	2703	2734	2779	2762	2672	2539	2572	2628	2731	2384	2086	1760	1548	1411	1405	1325	1338	1345	1512	1555	1509	1464	1463	1367	1394	1324	1548	1707	1888	2045	1200	997	1116	1152	1155	1229	1367	1608	1553	1389				