

Daily System Generation Summary on Friday

Friday, July 29, 2016

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,589 MW
Hydro	1,882 MW
Distillate	0 MW
Total TNB	5,471 MW
Total IPP	14,351 MW
Total Co-Gen	0 MW
Total System	20,386 MW

Generation Mix

Type	MWh	Percentage
Gas	54,357	16.14 %
Hydro	8,834	2.62 %
Total TNB	63,191	18.76 %
ST-Coal	164,846	48.95 %
Gas	108,597	32.25 %
Total IPP	273,443	81.20 %
Co-Gen	433	0.13 %
Total Co-Gen	433	0.13 %
Total Generation	337,067	100.09 %
PLTG	44	0.01 %
EGAT	-14	0.00 %
HVDC	282	0.08 %
Interconnection	312	0.09 %
Net Energy	336,755	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:	15:30:00 Hour
Total Set On Bus	17,486 MW
TNB Generation	3,159 MW
IPP Generation	12,626 MW
Spinning Reserve	1,688 MW
Maximum Demand	15,815 MW
Net Energy	336,755 MWH
Load Factor	88.72 %

Fuel Cost

Total Cost:	45,675,648.35 RM
Cost per Unit	13.92 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	527
Hydro	301
Syncon	585
Thermal	226
Total	1,639

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
CBPS	44
GLGR	32
PAKA	54
PGGS	1
PGPS	41
SRDG	36
TJGS	211
Total TNB	418

CBPS	55
KLPP	95
MPSS	51
NPRI	146
PDPS	16
PGLA	110
PKLG	19
PLPS	71
PTEK	34
SGRI	186
SKSP	50
Total IPP	832
Total Gas	1,250

Total Gas Required 1,250

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	13650	13007	12473	12239	11954	11749	11946	11883	12212	13769	14780	15342	15376	14866	15271	15755	15809	15594	14617	14215	15406	15335	14795	14556

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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
SGRI	GT11	137	134	112	111	111	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
SGRI	GT12	152	145	117	119	118	115	116	116	115	115	115	115	116	118	115	115	119	115	143	133	128	122	122	130
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	135	125	116	124	127
SGRI	ST14	151	151	132	138	134	135	136	135	136	136	137	138	134	133	136	136	135	133	150	210	209	199	200	212
SGRI	GT21	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	138	128	122	115	115	126
SGRI	GT22	142	128	115	115	115	115	116	73	71	71	71	71	71	109	111	135	128	121	120	130	123	127	116	116
SGRI	GT23	139	120	110	111	111	111	110	64	65	65	65	65	65	65	65	103	107	132	123	119	119	126	119	123
SGRI	ST24	204	144	137	133	133	132	133	100	98	97	99	99	98	98	95	103	104	121	193	207	208	203	200	205
SKSP	BLK1	219	257	219	219	218	217	216	217	217	219	219	221	220	218	216	218	226	215	219	264	342	341	341	341
TJCS	GT1A	222	217	226	226	210	224	160	210	191	122	160	208	216	226	226	190	230	223	228	214	225	228	224	228
TJCS	GT1B	212	210	215	218	204	215	149	201	183	116	147	199	210	214	215	181	218	211	217	205	215	214	214	214
TJCS	ST1C	248	252	249	249	239	245	186	209	214	176	205	208	237	248	237	222	252	245	252	237	247	251	251	255
TJCS	GT2A	214	214	214	214	185	185	185	182	185	154	137	137	138	138	138	139	143	204	203	203	203	201	201	201
TJCS	GT2B	211	211	211	211	180	180	182	180	180	151	134	135	135	135	135	135	142	199	199	199	199	199	199	199
TJCS	ST2C	257	257	257	257	237	237	237	237	237	229	211	211	211	211	211	213	213	247	247	247	250	250	250	250
Total CCGT-Gas		6773	6336	6010	5741	5444	5382	5104	4871	4819	4562	4594	4749	4895	5024	4864	4702	5173	6010	6565	6924	7157	7156	7224	7278
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	GT6B	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
SRDC	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
SRDC	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	0	0	0	0	0	0
BSIA	HY01	12	12	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
CEND	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
CEND	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
HTRG	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
HTRG	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
KNRC	HY01	24	24	24	24	24	22	23	23	23	22	23	24	24	23	23	24	24	23	24	24	24	24	24	24
KNRC	HY02	0	0	0	0	0	19	19	30	30	39	21	0	0	0	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	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
KNYR	HY04	56	61	60	60	61	59	58	59	59	58	61	61	61	60	60	59	61	63	101	100	88	78	70	60
LPIA	HY02	12	12	12	12	12	13	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PCAU	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
PCAU	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
PCAU	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

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
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
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
SYPS	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
SYPS	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
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
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
TMGR	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
TMGR	HY02	28	36	32	34	33	33	32	33	30	31	32	32	33	33	32	32	31	32	34	36	37	37	37	37
TMGR	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
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
UJLI	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
UPIA	HY01	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Hydro		152	165	155	157	157	155	170	193	180	181	189	175	156	156	156	153	153	152	226	290	371	520	495	525
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	CUFG	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	CUFK	13	15	14	14	14	15	13	13	13	15	14	14	14	14	13	13	12	13	14	13	13	14	13	14
Total Co-Gen		13	15	14	14	14	15	13	13	13	15	14	14	14	13	13	12	13	14	13	13	13	14	13	14
Total Gen		13714	13325	13051	12788	12485	12444	12258	12052	11984	11732	11775	11845	11981	12083	11925	11765	12238	13096	13732	14157	14701	15082	15322	
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	31	31	30	30	30	0	0	0	0	0	0	0	0	0	0
TIE-PLTG		34	-71	14	-17	-18	-13	-10	18	0	-36	-4	11	4	23	11	-42	-4	-48	-67	1	-79	-26	-20	
Interconnection		64	-40	44	13	12	17	19	48	30	-6	26	42	35	53	42	-11	26	-18	-37	1	-79	-26	-20	
System Total		13650	13365	13007	12775	12473	12427	12239	12004	11954	11738	11749	11803	11946	12030	11883	11776	12212	13114	13769	14156	14780	15108	15342	
SRev ST-Coal		411	400	364	358	365	365	303	299	302	300	296	334	327	334	335	296	294	271	264	261	271	247	251	
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	
SRev CCGT-Gas		633	608	838	878	1175	1237	1515	1748	1800	2057	2025	1870	1724	1595	1694	1856	1488	1101	919	660	427	478	410	
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	
SRev Co-Gen		7	5	6	6	6	5	7	7	7	5	6	6	5	7	6	6	6	7	7	8	7	6	7	
Syncon		810	810	810	810	810	810	659	810	810	810	810	810	810	810	806	806	806	806	705	707	707	606	606	
Hydro		143	130	133	131	131	133	118	246	108	107	99	113	132	132	132	135	135	136	163	332	251	253	278	
S.Reserve Total		2004	1953	2151	2183	2487	2550	2753	2959	3027	3279	3236	3133	2998	2878	2973	3099	2729	2321	2058	1968	1655	1582	1563	