

Availability at Daily Maximum Demand Hour

ST-Coal	2,930 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,894 MW
Hydro	1,838 MW
Distillate	0 MW
Total TNB	8,662 MW
Total IPP	9,820 MW
Total Co-Gen	0 MW
Total System	19,052 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	68,359	21.65 %
Gas	63,482	20.11 %
Hydro	14,415	4.57 %
Total TNB	146,256	46.33 %
ST-Coal	90,948	28.81 %
Gas	78,167	24.76 %
Total IPP	169,115	53.57 %
Co-Gen	1,403	0.44 %
Total Co-Gen	1,403	0.44 %
Total Generation	316,774	100.34 %
PLTG	331	0.10 %
HVDC	727	0.23 %
Interconnection	1,058	0.34 %
Net Energy	315,716	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:	20:00:00 Hour
Total Set On Bus	15,453 MW
TNB Generation	6,659 MW
IPP Generation	7,662 MW
Spinning Reserve	1,077 MW
Maximum Demand	14,349 MW
Net Energy	315,716 MWH
Load Factor	91.68 %

Fuel Cost

Total Cost:	40,774,700.17 RM
Cost per Unit	13.48 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	365
Hydro	383
Syncon	455
Thermal	60
Total	1,263

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	1
CBPS	5
GLGR	56
PAKA	139
PGPS	48
SRDG	9
TJGS	205
Total TNB	463
KLPP	80
MPSS	58
PDPS	10
PGLA	104
PKLG	9
PLPS	106
PTEK	3
SGB3	1
SGRI	138
YPKA	97
Total IPP	606
Total Gas	1,068
Total Gas Required	1,068

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	13682	12989	12501	12148	11847	11633	11644	11391	11182	12414	13380	14047	14096	13812	14073	14069	14084	13653	13238	13383	14349	14223	13854	13645

Prepared By: Siti Nurhamizatul Aini

Checked By: Ibrahim bin Said

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(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	142	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	ST34	100	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	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT13	133	134	137	135	135	136	133	135	135	135	135	134	134	134	108	103	103	131	131	130	130	131	131	131
SGRI	ST14	92	72	69	72	72	74	73	73	71	71	71	71	72	68	75	79	79	70	71	71	82	79	78	72
SGRI	GT21	107	135	107	125	107	115	108	137	104	104	104	106	106	106	62	61	61	63	107	106	134	136	112	134
SGRI	GT22	112	140	111	132	113	120	113	139	113	110	110	111	111	111	66	66	66	68	108	110	111	137	116	135
SGRI	GT23	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST24	193	172	127	139	128	142	128	148	132	134	151	129	129	132	99	98	98	94	135	205	211	218	202	216
YPKA	BLK1	261	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	262	261	261	259	259	259	259	259
YPKA	BLK2	296	297	297	298	298	298	298	297	297	297	298	298	298	298	296	296	296	294	294	293	293	292	292	292
PLPS	GT11	139	145	146	147	143	147	146	147	146	140	116	115	113	70	66	75	74	114	145	144	143	141	142	136
PLPS	GT12	142	70	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	140	139	139	138	139	138
PLPS	GT13	144	156	155	156	153	155	155	156	156	155	150	123	119	119	93	72	78	80	119	153	153	153	147	147
PLPS	ST18	213	198	195	149	146	146	147	146	146	146	145	135	134	135	118	101	100	106	133	216	215	215	213	213
TJGS	GT1A	196	201	191	218	190	210	202	222	223	217	194	207	200	202	194	194	158	220	193	200	216	216	216	216
TJGS	GT1B	185	193	186	214	184	204	211	217	213	209	183	197	191	200	186	185	149	220	186	193	217	217	214	214
TJGS	ST1C	226	226	228	241	230	247	232	254	254	250	226	233	226	244	224	197	251	226	226	256	256	252	244	245
TJGS	GT2A	188	188	187	220	187	201	194	220	205	187	187	193	189	189	187	144	133	221	188	188	216	216	214	214
TJGS	GT2B	184	184	182	216	183	197	191	214	204	181	185	189	185	185	141	129	220	184	185	218	218	215	215	186
TJGS	ST2C	239	239	242	255	241	258	241	263	258	244	239	239	239	241	239	217	209	256	239	239	263	261	261	261
Total OCGT-Gas		6657	6157	5957	5947	5643	5529	5357	5268	5121	5031	4920	4885	4850	4880	4624	4353	4243	4757	5309	5704	6093	6200	6135	6235
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	GT06	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
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	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
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	0	0	0	0	0	0
BSIA	HY01	21	21	21	12	12	12	13	13	12	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13
BSIA	HY02	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY03	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	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	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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
KNRG	HY01	35	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	35	35	35	21	20	21	21	22	21	21	20	21	21	20	20	22	35	21	21	22	22	21	21	21
KNYR	HY01	76	68	60	62	61	61	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY02	68	77	59	61	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNYR	HY03	96	96	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY04	62	74	95	61	58	62	62	97	66	62	56	68	60	61	62	59	79	97	59	62	64	95	84	95
LPIA	HY01	13	13	13	13	13	13	14	14	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
LPIA	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

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
MNOR	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
PGAU	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
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
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
PGAU	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
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
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
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	35	33	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY03	79	78	78	32	49	50	53	53	53	52	46	51	50	51	51	48	51	56	49	52	53	53	53	53
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	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Total Hydro		645	655	649	307	257	263	226	267	210	203	190	208	199	201	224	195	220	458	429	499	515	694	856	921
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	36	36	35	37	37	35	36	37	36	37	37	37	37	38	39	37	37	37	36	35	35	34	34	34
PCUF	CUFK	25	26	26	27	27	28	28	29	27	24	26	27	26	26	27	26	25	25	22	23	22	20	18	21
Total Co-Gen		61	62	61	64	64	63	64	66	63	61	63	64	63	63	63	65	65	62	62	59	59	57	55	52
Total Gen		13747	13806	13982	12818	12556	12404	12192	12047	11864	11815	11674	11688	11645	11677	11471	11246	11187	11929	12440	12933	13402	13795	14051	
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		30	30	30	30	31	31	31	31	30	30	30	30	31	31	30	30	30	30	29	32	29	29	29	31
TIE-PLTG		35	18	62	45	25	24	13	-49	-13	35	11	-6	-31	32	49	37	-25	-4	-4	2	-8	-8	-26	
Interconnection		65	48	93	75	55	55	44	-18	17	65	41	24	-1	63	80	67	5	26	26	33	22	23	4	
System Total		13682	13258	12989	12743	12501	12349	12148	12065	11847	11750	11633	11664	11644	11614	11391	11179	11182	11903	12414	12900	13380	13772	14047	
SRev ST-Coal		22	14	41	83	50	93	17	51	12	-29	8	-59	-129	-131	-46	-49	-75	32	44	13	9	133	28	
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		755	519	476	282	409	442	614	703	850	940	1051	1086	1121	1091	1347	1550	1660	1146	1006	611	320	213	253	
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		-17	-18	-17	-20	-20	-19	-20	-22	-19	-17	-19	-20	-19	-19	-21	-21	-18	-18	-15	-15	-13	-11	-8	
Synecon		625	625	625	625	726	726	676	676	827	827	827	827	827	827	676	827	827	827	827	827	575	237	453	
Hydro		169	159	165	196	145	139	226	185	91	98	111	93	102	100	228	106	81	74	188	118	346	505	427	
S.Reserve Total		1559	1304	1295	1171	1315	1386	1518	1598	1766	1824	1983	1932	1987	1873	2191	2418	2477	2066	2052	1559	1240	1083	1139	