

Availability at Daily Maximum Demand Hour

ST-Coal	2,420 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,024 MW
Hydro	1,841 MW
Distillate	0 MW
Total TNB	8,285 MW
Total IPP	11,277 MW
Total Co-Gen	0 MW
Total System	20,132 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	53,804	16.44 %
Gas	43,537	13.31 %
Hydro	16,683	5.10 %
Total TNB	114,024	34.85 %
ST-Coal	111,367	34.04 %
Gas	100,710	30.78 %
Total IPP	212,077	64.82 %
Co-Gen	1,240	0.38 %
Total Co-Gen	1,240	0.38 %
Total Generation	327,341	100.05 %
PLTG	754	0.23 %
HVDC	-598	-0.18 %
Interconnection	156	0.05 %
Net Energy	327,185	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:	15:30:00 Hour
Total Set On Bus	17,269 MW
TNB Generation	5,593 MW
IPP Generation	10,151 MW
Spinning Reserve	1,476 MW
Maximum Demand	15,796 MW
Net Energy	327,185 MWH
Load Factor	86.30 %

Fuel Cost

Total Cost:	41,469,298.03 RM
Cost per Unit	14.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	551
Hydro	585
Syncon	103
Thermal	136
Total	1,375

Time	Weather	Temperature
Afternoon	Hot	36
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
CBPS	6
GLGR	55
PGPS	45
SRDG	4
TJGS	207
Total TNB	316

Alternate Fuel Usage

Station	(mmscfd)
Total	0

KLPP	96
MPSS	35
PDPS	16
PGLA	106
PKLG	2
PLPS	94
PTEK	3
SGB3	59
SGRI	161
SKSP	47
YPGS	69
YPKA	103
Total IPP	791
Total Gas	1,107
Total Gas Required	1,107

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	12825	12238	11697	11476	11135	10864	11221	11469	11843	13662	14558	15205	15149	14983	15481	15728	15758	15437	14154	13722	14858	14747	14428	14000

Daily MW Generation on Monday

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																												
PLPS	GT12	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	139	141	140	139	140	138	136	136	135	136	137	128	131	116	116	114	116	139	137	138	137	136	140	137	140											
PLPS	GT13	144	143	144	112	108	109	116	108	107	77	64	64	65	67	63	56	68	112	111	147	140	144	145	144	143	143	141	141	137	139	134	140	141	142	132	134	108	108	108	108	131	130	130	130	129	129	124	128				
PLPS	ST18	213	170	146	135	134	134	135	135	133	108	89	92	92	95	96	90	99	139	140	150	212	217	215	215	216	213	212	213	214	211	215	213	213	211	214	201	197	198	200	215	213	214	213	212	187	140	143					
SKSP	BLK1	338	345	213	213	211	212	214	213	210	211	211	213	216	214	212	214	219	212	219	211	213	301	301	297	299	298	286	299	294	300	304	299	299	298	297	296	214	213	213	216	214	219	213	212	213	206	215	222				
TJGS	GT1A	190	220	217	218	219	144	114	120	113	113	118	172	222	220	216	106	224	143	221	216	223	215	215	216	216	214	216	216	216	216	216	216	216	216	216	219	172	150	220	221	221	219	221	222	222	222	222					
TJGS	GT1B	186	217	214	219	219	141	113	118	109	110	113	166	218	217	214	101	220	142	214	214	222	213	213	213	211	211	211	214	211	211	214	214	214	214	214	214	213	170	146	220	220	220	220	219	222	220	220	222				
TJGS	ST1C	242	247	248	250	247	194	161	164	160	160	160	184	246	250	247	172	234	182	247	247	257	249	249	249	249	252	252	252	252	249	249	249	249	249	249	252	209	176	253	257	257	257	258	257	257	257	254					
TJGS	GT2A	184	217	222	221	208	188	200	184	188	186	141	143	143	225	224	224	152	223	223	223	223	220	214	214	212	214	211	211	214	214	214	214	214	214	183	143	142	186	184	184	204	201	201	201	201	201	201	201				
TJGS	GT2B	182	216	219	220	207	185	197	182	185	185	139	140	140	226	222	222	150	221	223	223	223	223	212	212	212	212	209	212	212	212	212	212	212	212	179	143	143	183	180	180	201	201	201	201	201	201	201	201				
TJGS	ST2C	248	261	259	258	248	238	238	247	238	240	220	215	217	257	263	263	215	262	262	262	262	256	256	256	258	258	258	258	258	256	256	256	256	256	256	236	216	214	232	238	238	247	249	249	249	249	249	249				
Total CCGT-Gas		5640	5496	5121	4868	4649	4371	4299	4127	4090	3938	3770	3932	4105	4446	4376	4139	4404	5121	5752	6151	6617	6779	6922	7089	7022	6994	6957	7023	7118	7099	7016	7065	7093	7180	6968	7019	6480	6193	6083	6823	6920	6935	6824	6668	6581	6571	6381	6150				
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	0	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	0	0	0	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	0	0	0	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	0	0	0	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	0	0	0	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	0	0	0	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	GT01	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	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		-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
BSIA	HY02	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	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	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	10	10	
CEND	HY02	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	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	9	9
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	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	9	
KNRG	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	0	0	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	HY02	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY03	38	38	38	23	21	22	23	22	22	21	22	22	22	23	22	21	24	21	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNYR	HY01	100	101	100	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	HY02	99	100	99	100	100	99	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
KNYR	HY03	100	101	100	101	101	101	60	61	59	59	60	61	60	60	58	61	101	100	100	100	101	100	102	100	101	101	101	101	101	101	100	100	101	101	102	103	103	98	99	102	103	54	55	59	95	96	100	101	100	100	100	100
KNYR	HY04	89	95	99	101	90	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LPJA	HY01	14	15	15	14	15</																																															

Daily MW Generation on Monday

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	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	29	36	34	32	33	32	50	49	42	44	38	39	56	76	41	41	40	52	55	74	76	31	30	30	31	31	31	31	31	31	30	31	32	30	31		
TMGR	HY02	77	34	33	35	34	34	37	32	32	32	33	34	36	36	33	30	36	34	33	34	32	50	48	51	49	49	50	59	37	43	39	52	52	75	76	28	27	28	27	28	28	29	29	28	29	28	29		
TMGR	HY03	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	32	32	49	48	41	48	38	39	56	78	40	39	43	49	55	75	77	31	29	29	31	31	31	30	30	31	31	30	31	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	35	34	51	49	51	48	49	48	49	57	42	40	40	42	41	70	72	33	31	31	32	33	32	32	32	32	33	31	32	
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	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	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		782	571	550	541	422	417	259	190	191	210	210	213	194	214	211	318	364	652	821	829	820	912	1149	1090	993	883	882	919	1037	969	1033	1036	992	1047	1033	760	587	611	615	755	964	962	961	956	862	768	753	764	
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
PCUF	CUFG	14	11	12	13	14	13	12	13	13	13	12	12	13	13	15	14	14	14	12	12	13	13	13	10	13	10	13	11	11	12	11	10	13	14	13	14	15	14	15	15	15	14	15	14	13	14	13	13	
PCUF	CUFK	38	38	39	40	38	38	40	39	40	40	41	39	41	40	40	40	40	41	39	38	39	38	38	39	37	38	37	38	38	38	37	37	39	39	39	39	39	40	38	38	37	38	38	38	38	38			
Total Co-Gen		52	49	51	53	52	51	53	51	53	53	54	51	53	53	55	54	54	54	53	51	51	52	51	51	49	50	48	50	49	49	49	49	48	50	51	52	53	54	53	54	55	53	52	50	52	51	51		
Total Gen		12841	12620	12263	12038	11743	11599	11425	11184	11150	11032	10856	11028	11208	11562	11470	11299	11739	12812	13603	14056	14581	14842	15208	15333	15155	15009	14982	15168	15502	15657	15759	15793	15757	15746	15513	14881	14196	13916	13720	14561	14876	14915	14774	14624	14451	14321	14032	13816	
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	
TIE-HVDC		31	31	31	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	
TIE-PLTG		-14	26	-6	46	76	8	-22	-1	44	85	22	107	16	71	30	12	-75	-47	-30	17	52	-1	33	35	36	0	28	64	50	-13	61	25	28	-28	105	93	72	37	27	74	48	30	56	71	52	24	62	24	
Interconnection		16	56	25	16	46	-21	-51	-30	15	56	-8	77	-13	42	1	-17	-104	-76	-59	-12	23	-30	3	5	6	-29	-1	35	21	-43	31	-3	-1	-28	76	64	42	8	-2	45	18	1	27	43	23	-6	32	-5	
System Total		12825	12564	12238	12022	11697	11620	11476	11214	11135	10976	10864	10951	11221	11520	11469	11316	11843	12888	13662	14068	14558	14872	15205	15328	15149	15038	14983	15133	15481	15700	15728	15796	15758	15774	15437	14817	14154	13908	13722	14516	14858	14914	14747	14581	14428	14327	14000	13821	
SR	ST-Coal	-3	30	44	9	-35	-175	-4	39	39	24	33	23	-1	6	25	104	198	130	139	149	142	134	149	129	144	150	140	138	143	124	145	132	151	132	181	182	157	165	147	185	67	122	149	137	127	155	96	92	
SR	OCGT-Gas	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SR	CCGT-Gas	599	331	493	746	965	1243	1315	1487	1524	1676	1844	1682	1509	1271	1484	1833	1783	1206	889	764	468	420	420	304	371	399	436	370	275	308	491	442	414	327	539	488	1027	1374	1484	744	647	632	716	726	670	680	666	689	
SR	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
SR	Co-Gen	24	27	25	23	24	25	23	25	23	23	23	23	21	22	22	22	23	25	25	24	25	25	24	25	27	26	28	26	27	27	27	27	28	26	25	24	23	22	23	22	21	23	24	26	24	25	25		
Syncon		618	467	618	618	618	618	568	719	719	568	568	568	719	568	568	183	334	334	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	151	
Hydro		131	201	71	79	98	105	212	130	129	260	260	257	125	256	259	637	590	523	619	611	620	528	541	600	597	557	558	521	503	571	582	579	598	543	608	558	731	707	704	664	580	607	608	613	607	601	617	608	
S.Reserve Total		1370	1057	1251	1475	1670	1814	2114	2400	2434	2551	2727	2555	2375	2124	2359	2778	2927	2215	1820	1760	1405	1258	1285	1211	1289	1285	1312	1235	1101	1192	1510	1476	1487	1289	1422	1405	2090	2420	2357	1616	1316	1382	1496	1500	1430	1460	1404	1565	