

Availability at Daily Maximum Demand Hour

ST-Coal	2,950 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,187 MW
Hydro	2,105 MW
Distillate	0 MW
Total TNB	9,242 MW
Total IPP	8,690 MW
Total Co-Gen	28 MW
Total System	17,960 MW

Generation Mix

Type	MWh	Percentage
ST-Coal	65,877	22.38 %
Gas	65,953	22.41 %
Hydro	6,485	2.20 %
Total TNB	138,315	46.99 %
ST-Coal	90,467	30.74 %
ST-Gas	4,451	1.51 %
Gas	60,105	20.42 %
Total IPP	155,023	52.67 %
Co-Gen	527	0.18 %
Total Co-Gen	527	0.18 %
Total Generation	293,865	99.84 %
PLTG	194	0.07 %
HVDC	-664	-0.23 %
Interconnection	-470	-0.16 %
Net Energy	294,335	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:	21:00:00 Hour
Total Set On Bus	15,321 MW
TNB Generation	6,436 MW
IPP Generation	7,336 MW
Spinning Reserve	1,525 MW
Maximum Demand	13,807 MW
Net Energy	294,335 MWH
Load Factor	88.82 %

Fuel Cost

Total Cost:	40,044,191.70 RM
Cost per Unit	13.93 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	561
Hydro	164
Syncon	700
Thermal	78
Total	1,503

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
CBPS	28
GLGR	51
NPRI	68
PAKA	184
PGPS	24
SRDG	3
TJGS	150
Total TNB	508
KLPP	68
MPSS	32
PGLA	105
PKLG	2
PLPS	75
SGB3	41
SGRI	156
PKLG	45
Total IPP	525
Total Gas	1,033
Total Gas Required	1,033

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	13227	12667	12242	11848	11573	11339	11239	10929	10341	10833	11509	12044	12156	12174	12436	12633	12698	12555	12253	12386	13752	13807	13704	13571

Daily MW Generation on Sunday

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	35	34	30	31	33	30	32	29	31	32	27	24	27	36	31	31	47	45	46	49	50	47	46	50	43	43	48	50	57	49	46	46	51	28	29	34	33	36	38	35	37	37	37	37	40	40	36			
TMGR	HY03	34	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	-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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
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	4		
Total Hydro		271	281	177	179	181	176	181	195	197	192	182	176	175	171	214	152	156	190	186	211	198	257	214	236	235	210	208	219	232	266	242	213	216	197	195	207	208	200	204	430	550	526	553	525	526	534	509	508		
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 CUFK		25	26	24	26	22	22	22	21	21	21	22	22	21	22	21	21	21	21	21	21	23	20	21	21	20	20	20	20	20	19	21	20	21	22	21	19	21	23	23	25	23	23	24	25	24	24	23	24		
Total Co-Gen		25	26	24	26	22	22	22	21	21	21	22	22	21	22	21	21	21	21	21	21	23	20	21	21	20	20	20	20	19	21	20	21	22	21	19	21	23	23	25	23	23	24	25	24	24	23	24			
Total Gen		13223	13045	12661	12416	12205	12071	11816	11656	11502	11440	11388	11336	11337	11252	10963	10515	10459	10626	10917	11138	11526	11851	11976	12070	12099	12145	12096	12287	12363	12585	12593	12661	12688	12614	12521	12421	12200	12134	12332	13343	13723	13778	13796	13738	13649	13584	13518	13274		
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		0	31	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-30	-30	-29	-29	-30	-30	-31	-31	-30	-30	-29	-29	-31	-31	-30	-30	-29	-29	-28	-28	-30	-30	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29		
TIE-PLTG		-4	-36	23	-28	-8	22	-2	-10	-42	-1	79	188	127	82	64	46	148	-9	114	-55	47	9	-38	-29	-26	33	-48	-27	-44	-45	-9	-8	20	8	-5	52	-25	-32	-24	19	0	7	18	-29	-26	-17	-24	-66		
Interconnection		-4	-5	-6	-57	-37	-7	-32	-39	-71	-31	49	158	98	52	34	15	118	-39	84	-84	17	-21	-68	-60	-57	2	-78	-57	-73	-75	-40	-38	-10	-21	-34	24	-53	-62	-54	-11	-29	-22	-11	-57	-55	-46	-53	-95		
System Total		13227	13050	12667	12473	12242	12078	11848	11695	11573	11471	11339	11178	11239	11200	10929	10500	10341	10665	10833	11222	11509	11872	12044	12130	12156	12143	12174	12344	12436	12580	12633	12699	12698	12635	12555	12397	12253	12196	12386	13354	13752	13800	13807	13795	13704	13630	13571	13369		
SRcv ST-Coal		241	245	141	136	139	147	158	177	204	199	221	226	211	123	461	607	575	574	385	380	117	151	136	114	101	101	129	111	124	-8	-23	-22	-29	-4	34	8	3	26	5	34	14	3	-2	5	126	114	118	171		
SRcv 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	3	72	72	74	73	0	0	0			
SRcv CCGT-Gas		277	314	566	681	725	843	1094	1248	1377	1437	1461	1500	1513	1606	1591	1763	1760	1710	1608	1424	1288	901	805	755	737	580	569	567	490	415	559	554	542	579	637	803	964	989	974	374	503	426	441	378	373	279	169	174		
SRcv ST-Gas		37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	38	38	38	38	37	37	38	42	16	12	6	0	0	41	40	42	11	2	1	1	0	-2	4	39	38		
SRcv Co-Gen		3	2	4	2	6	6	6	7	7	7	6	6	7	6	7	6	7	7	7	7	7	5	8	7	7	8	8	8	8	8	9	7	8	7	6	7	9	7	5	5	3	5	5	4	3	4	4	5	4	
Syncon		802	651	953	953	953	953	953	953	953	953	953	953	953	802	953	953	953	953	852	852	726	575	726	575	726	575	726	726	726	726	575	726	726	726	726	726	726	726	726	575	676	676	802	802	802	953	953			
Hydro		434	575	142	140	138	143	138	124	122	127	137	143	144	148	256	167	163	128	134	109	123	215	107	236	86	111	113	102	89	55	230	108	105	124	126	134	122	122	118	131	250	235	333	235	234	226	100	101		
S.Reserve Total		1794	1824	1843	1949	1998	2129	2386	2546	2700	2760	2815	2865	2865	2873	3154	3533	3495	3409	3023	2809	2296	1887	1818	1725	1696	1564	1583	1551	1474	1235	1390	1390	1363	1437	1530	1680	1863	1908	1870	1279	1352	1418	1525	1497	1610	1429	1384	1441		