

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,848 MW
Hydro	2,309 MW
Distillate	0 MW
Total TNB	<u>5,157 MW</u>
Total IPP	<u>13,364 MW</u>
Total Co-Gen	<u>80 MW</u>
Total System	<u>19,165 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	36,371	12.11 %
Hydro	9,718	3.24 %
Total TNB	46,089	15.34 %
ST-Coal	162,665	54.15 %
Gas	89,741	29.87 %
Total IPP	252,406	84.02 %
Co-Gen	1,657	0.55 %
Total Co-Gen	1,657	0.55 %
Total Generation	300,152	99.92 %
PLTG	332	0.11 %
HVDC	-577	-0.19 %
Interconnection	-245	-0.08 %
Net Energy	300,397	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:	20:30:00 Hour
Total Set On Bus	16,007 MW
TNB Generation	2,732 MW
IPP Generation	11,427 MW
Spinning Reserve	1,779 MW
Maximum Demand	14,203 MW
Net Energy	300,397 MWH
Load Factor	88.13 %

Fuel Cost

Total Cost:	47,898,751.25 RM
Cost per Unit	16.49 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	482
Hydro	265
Syncon	1,231
Thermal	203
Total	2,181

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Cloudy	28

Gas Usage

Station	(mmscfd)
CBPS	47
GLGR	55
PAKA	26
PGPS	43
SRDG	7
TJGS	107
Total TNB	284
CBPS	52
KLPP	104
MPSS	50
NPRI	149
PGLA	57
PKLG	3
PLPS	75
PTEK	12
SGRI	167
Total IPP	670
Total Gas	954
Total Gas Required	954

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	13450	12957	12506	12099	11759	11470	11507	11125	10715	11179	11943	12424	12633	12583	12648	12727	12648	12579	12525	12981	13946	14147	13867	13645

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																										
UPIA	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	7	7																								
Total Hydro		593	568	521	518	485	450	445	242	240	238	237	279	341	272	209	190	576	566	251	254	196	238	204	252	267	259	262	256	289	414	371	310	278	292	298	266	311	321	474	756	690	691	683	687	693	580	590	599		
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	40	39	39	39	40	39	39	39	39	41	38	40	39	39	39	41	40	39	38	38	38	37	36	36	36	40	37	36	36	36	36	36	36	36	36	36	37	38	37	36	37	36	37	37	38	40	38	39	38	
PCUF	CUFK	30	34	36	34	34	34	35	35	34	35	34	34	34	35	38	37	34	35	32	27	29	31	28	26	26	27	26	27	26	24	27	26	26	26	26	26	26	27	27	26	30	27	32	35	36	36	36	36	36	
Total Co-Gen		70	73	75	73	74	73	74	74	73	76	72	74	73	74	77	78	74	74	70	65	67	68	64	62	62	67	63	63	62	60	63	62	62	62	62	63	64	64	64	62	67	63	69	72	74	76	74	75	74	
Total Gen		13503	13258	12982	12711	12510	12356	12093	11987	11705	11546	11450	11496	11560	11462	11229	10747	10696	10892	11178	11512	11958	12069	12416	12599	12632	12486	12505	12590	12644	12685	12687	12671	12615	12661	12549	12409	12480	12519	13015	13786	13960	14228	14158	14110	13903	13755	13566	13379		
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		30	30	30	30	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-31	-28	-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		23	23	-6	-12	32	60	23	63	-25	4	9	-30	82	31	132	38	12	35	29	-2	44	-44	21	53	28	-4	-49	1	25	-20	-12	11	-5	-3	-1	-7	-16	10	63	8	43	54	41	-24	64	-24	-50	-65		
Interconnection		53	53	25	18	4	31	-6	34	-54	-25	-20	-58	53	2	104	10	-19	7	-1	-32	15	-74	-8	24	-1	-33	-78	-28	-4	-49	-40	-17	-33	-32	-30	-36	-45	-19	34	-21	14	25	11	-54	36	-53	-79	-94		
System Total		13450	13205	12957	12693	12506	12325	12099	11953	11759	11571	11470	11554	11507	11460	11125	10737	10715	10885	11179	11544	11943	12143	12424	12575	12633	12519	12583	12618	12648	12734	12727	12688	12648	12693	12579	12445	12525	12538	12981	13807	13946	14203	14147	14164	13867	13808	13645	13473		
SRev ST-Coal		117	214	203	203	204	270	260	196	191	185	188	209	197	205	204	268	195	193	188	197	186	211	217	167	206	191	223	210	228	223	230	208	190	195	204	195	197	210	180	196	199	198	212	198	203	213	201	203		
SRev CCGT-Gas		35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	21	108	-17	33	-13	-12	137	0		
SRev CCGT-Gas		518	537	511	458	415	383	545	461	743	912	1000	977	986	1007	1184	1738	1628	2012	1572	1228	737	703	313	234	260	414	338	288	283	328	404	387	431	389	503	622	591	634	360	306	232	130	303	216	374	273	379	367		
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
SRev Co-Gen		10	7	5	7	6	7	6	6	7	4	8	6	7	6	3	2	6	6	10	15	13	12	16	18	18	13	17	17	18	20	17	18	18	18	18	17	16	16	16	18	13	17	11	8	6	4	6	5	6	
Syncon		948	948	948	948	948	948	948	1452	1452	1452	1452	1326	1301	1452	1452	686	686	1301	1301	1452	1452	1452	1452	1452	1452	1452	1452	1452	1099	1099	1200	1200	1301	1301	1452	1452	1301	948	948	1099	948	948	948	948	1250	1250	1250			
Hydro		382	407	377	380	413	448	453	152	154	156	157	115	179	248	135	129	509	519	219	216	123	81	115	167	152	160	157	163	130	358	401	361	293	278	272	153	108	249	449	319	234	384	392	388	382	116	106	97		
S.Reserve Total		2010	2113	2044	1996	1986	2056	2212	2267	2547	2709	2805	2759	2695	2767	2978	3589	3024	3416	3290	2957	2511	2459	2113	2038	2088	2230	2187	2130	2111	2028	2151	2174	2232	2181	2297	2438	2364	2410	1955	1793	1802	1779	1846	1789	1898	1846	2078	1923		