

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,115 MW
Hydro	2,507 MW
Distillate	0 MW
Total TNB	5,622 MW
Total IPP	12,694 MW
Total Co-Gen	60 MW
Total System	18,376 MW

Generation Mix

Type	MWh	Percentage
Gas	61,754	19.81 %
Hydro	11,480	3.68 %
Total TNB	73,234	23.49 %
ST-Coal	160,358	51.43 %
ST-Gas	1,827	0.59 %
ST-Oil	3,906	1.25 %
Gas	72,143	23.14 %
Total IPP	238,234	76.41 %
Co-Gen	1,123	0.36 %
Total Co-Gen	1,123	0.36 %
Total Generation	312,591	100.25 %
PLTG	69	0.02 %
HVDC	723	0.23 %
Interconnection	792	0.25 %
Net Energy	311,799	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:	19:30:00 Hour
Total Set On Bus	16,110 MW
TNB Generation	3,660 MW
IPP Generation	10,704 MW
Spinning Reserve	1,701 MW
Maximum Demand	14,355 MW
Net Energy	311,799 MWH
Load Factor	90.50 %

Fuel Cost

Total Cost:	43,803,136.15 RM
Cost per Unit	14.62 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	486
Hydro	237
Syncon	985
Thermal	111
Total	1,819

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
CBPS	61
GLGR	11
PAKA	151
PGPS	27
SRDG	4
TJGS	215
Total TNB	469
KLPP	102
NPRI	94
PDPS	3
PKLG	3
PLPS	98
PTEK	27
SGRI	197
SKSP	45
PKLG	18
Total IPP	587
Total Gas	1,056
Total Gas Required	1,094

Alternate Fuel Usage

Station	(mmscfd)
PKLG	38
Total	38

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	13409	12907	12253	12122	11843	11906	11981	11466	11316	12466	13124	13730	13636	13359	13556	13582	13520	13268	13076	13932	14245	14112	13798	13531

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																											
Total Hydro		510	450	452	451	534	514	514	289	294	291	219	214	197	196	197	193	195	202	204	220	437	432	712	728	731	566	525	522	546	524	623	640	538	470	510	513	514	561	723	882	805	659	656	432	430	528	526	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	0	0	0	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	CUPG	30	31	31	31	30	31	31	30	31	29	31	30	30	29	30	30	29	29	28	28	28	29	27	26	28	27	28	28	28	27	27	28	30	30	29	29	30	29	27	26	27	27	28	28	28	28	27	27			
PCUF	CUFK	17	19	20	20	16	17	17	18	18	18	19	18	18	16	19	19	19	19	19	17	17	19	18	19	18	19	17	18	19	17	16	18	19	19	18	19	18	19	16	19	19	18	18	16	19	18	18	17			
Total Co-Gen		47	50	51	51	46	48	48	48	49	47	50	48	48	45	49	49	48	48	45	45	45	45	45	46	46	45	46	47	44	43	46	49	49	47	48	48	48	43	45	46	45	46	44	47	46	45	44				
Total Gen		13472	12853	12873	12386	12334	12228	12214	11896	11870	11906	11916	11930	12021	11654	11495	11230	11360	12020	12478	12814	13139	13416	13701	13715	13637	13468	13389	13460	13550	13654	13611	13611	13552	13505	13337	13170	13192	13196	14000	14409	14294	14237	14158	14079	13846	13648	13590	13330			
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	32	31	29	30	29	32	32	31	31	29	29	29	29	29	29	29	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30	30	31	31	30	30	30	30	29	31	31	31	31	30	30	31	31			
TIE-PLTG		33	-21	-65	27	51	-32	60	2	-3	6	-19	8	10	19	-2	21	16	11	-17	27	-14	-76	-59	-70	-29	-17	0	-29	-36	-10	0	34	2	-12	39	17	86	9	37	25	19	29	14	-4	18	15	28	-9			
Interconnection		63	11	-34	56	81	-3	92	34	27	37	10	37	40	49	29	52	44	39	12	56	15	-46	-29	-39	1	13	30	1	-6	20	29	64	32	19	69	47	116	39	68	54	49	60	46	28	48	45	59	22			
System Total		13499	12842	12907	12330	12253	12229	12122	11862	11843	11869	11906	11893	11981	11605	11466	11178	11316	11981	12466	12758	13124	13462	13730	13754	13636	13455	13359	13459	13556	13634	13582	13547	13520	13486	13268	13123	13076	13157	13932	14355	14245	14177	14112	14051	13798	13603	13531	13268			
SRev ST-Coal		157	298	248	291	220	193	218	183	213	-20	-17	-24	-22	149	200	36	41	22	14	132	129	103	99	103	118	27	57	33	55	42	156	146	144	201	161	141	169	106	135	161	183	122	171	125	157	134	131	158			
SRev ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	19	-1	-1	-2	-2	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-2	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	185	-12	-10	-15	-14	-11	106	115	118	120	118	119	116	115	119	197	199	197	108	27	32	157	161	159	222	146	0	0	0	0	
SRev CCGT-Gas		419	826	305	630	483	463	336	365	367	560	478	463	354	547	708	1138	1156	720	486	231	269	295	309	420	486	579	514	526	436	318	447	476	441	363	555	668	617	726	139	435	447	293	317	285	489	578	566	594			
SRev ST-Gas		-1	-2	-2	-2	-2	41	38	36	36	37	37	37	37	37	37	37	37	37	37	36	0	0	0	0	0	0	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		13	10	9	9	14	12	12	11	13	10	12	12	15	11	11	12	12	15	15	15	12	15	15	14	14	15	14	13	16	17	14	11	11	13	12	12	12	17	15	14	15	14	16	13	14	15	16				
Syncon		1037	1037	1037	1037	886	1037	1037	1264	1264	1264	1113	1350	1350	1350	1350	1163	1163	1012	1062	1062	810	810	810	936	936	936	785	1062	1062	911	1062	1062	1062	1062	1062	846	659	846	846	931	1334	1334	1334	1334	1248						
Hydro		184	144	142	143	336	205	205	103	98	101	157	229	94	95	94	98	96	90	88	223	156	161	308	242	244	183	224	227	354	224	225	359	346	314	181	178	270	223	277	405	445	241	243	114	116	118	120	122			
S.Reserve Total		1814	2318	1744	2113	1942	1856	1851	1968	1994	1960	1924	1835	1830	2198	2405	2675	2697	2949	1808	1654	1860	1645	1535	1579	1657	1726	1850	1848	1759	1780	2023	2023	2118	2065	2090	2257	2328	2324	1520	1701	1966	1673	1836	2032	2330	2323	2165	2136			