

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	2,802 MW
Hydro	2,304 MW
Distillate	0 MW
Total TNB	5,106 MW
Total IPP	15,400 MW
Total Co-Gen	57 MW
Total System	21,135 MW

Generation Mix

Type	MWh	Percentage
Gas	44,430	12.29 %
Hydro	19,778	5.47 %
Total TNB	64,208	17.75 %
ST-Coal	182,344	50.42 %
Gas	114,723	31.72 %
Total IPP	297,067	82.14 %
Co-Gen	1,105	0.31 %
Total Co-Gen	1,105	0.31 %
Total Generation	362,380	100.20 %
PLTG	12	0.00 %
HVDC	725	0.20 %
Interconnection	737	0.20 %
Net Energy	361,643	100.00 %

Maximum Demand Record

Date: 10/23/2017	17,790 MW
Date: 4/20/2016	372,457 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	15:00:00 Hour
Total Set On Bus	18,529 MW
TNB Generation	3,581 MW
IPP Generation	13,535 MW
Spinning Reserve	1,365 MW
Maximum Demand	17,147 MW
Net Energy	361,643 MWH
Load Factor	87.88 %

Fuel Cost

Total Cost:	64,163,613.07 RM
Cost per Unit	18.73 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	503
Hydro	432
Syncon	434
Thermal	209
Total	1,578

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	55
PGPS	38
SRDG	3
TJGS	223
Total TNB	319
CBPS	54
KLPP	113
MPSS	44
NPRI	164
PGLA	110
PTEK	5
SGB3	1
SGRI	163
SKSP	35
YPKA	90
Total IPP	780
Total Gas	1,099
Total Gas Required	1,099

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	14983	14157	13675	13220	12895	12753	12847	12862	13104	14842	15740	16454	16453	16049	16755	17147	17069	16579	15387	15036	16181	16124	15611	15263

Daily MW Generation on Thursday

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	HY04	71	71	71	71	71	71	71	34	34	34	34	34	34	33	34	34	60	61	60	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61										
UJLI	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	-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										
Total Hydro		1024	1039	1061	1046	1042	1045	969	672	396	279	238	237	217	215	214	192	253	658	781	774	821	1055	1297	1405	1348	999	952	1203	1429	1510	1504	1507	1394	1340	1241	785	475	462	460	462	682	680	679	698	678	658	660	607	
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		
PCUF	CUFG	20	21	20	20	20	21	20	23	26	26	27	27	27	28	27	28	27	26	28	28	28	28	28	28	28	28	27	27	28	27	28	28	27	27	28	27	27	28	27	27	28	27	28	27	27				
PCUF	CUFK	31	21	19	20	20	20	20	18	20	19	19	19	19	20	21	19	19	21	19	19	20	21	19	19	20	21	20	20	20	20	20	20	19	20	19	19	20	20	20	20	20	20	20	20	20	21			
Total Co-Gen		51	42	39	40	40	41	40	38	43	45	45	46	46	47	47	49	46	45	49	49	45	46	46	46	46	49	48	48	48	48	48	48	48	47	46	48	46	47	48	47	47	48	47	48	47	48			
Total Gen		15036	14567	14231	13951	13670	13465	13206	13085	12879	12880	12783	12774	12889	13126	12898	12889	13102	14115	14881	15395	15746	16284	16473	16573	16517	16198	16062	16408	16780	17143	17164	17146	17095	16946	16648	16014	15439	15068	15075	15933	16232	16277	16160	15930	15635	15533	15298	14971	
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		
TIE-HVDC		30	30	31	31	30	30	30	30	31	31	30	30	30	30	30	29	29	30	30	31	30	30	31	30	30	31	30	30	30	30	30	30	31	31	31	31	31	31	31	29	31	30	30	30	30				
TIE-PLTG		23	-43	43	-30	-36	-18	-43	-17	-47	-8	0	30	12	7	5	15	-32	-33	8	13	-24	24	-10	27	34	2	-18	23	-5	-14	-14	19	-4	20	38	11	22	34	9	-32	20	40	4	-29	-7	4	5	-6	
Interconnection		53	-13	74	1	-5	12	-14	12	-16	23	30	60	42	37	36	46	-2	-3	39	44	6	54	19	56	64	32	13	53	25	17	17	49	26	51	69	41	52	64	39	-2	51	72	36	0	24	35	35	24	
System Total		14983	14580	14157	13950	13675	13453	13220	13073	12895	12857	12753	12714	12847	13089	12862	12843	13104	14118	14842	15351	15740	16230	16454	16517	16453	16166	16049	16355	16755	17126	17147	17097	17069	16895	16579	15973	15387	15004	15036	15935	16181	16285	16124	15930	15611	15498	15263	14947	
SRev ST-Coal		164	195	315	334	343	327	304	352	360	348	351	544	425	439	443	445	446	431	545	489	184	138	157	156	156	162	157	162	236	239	145	144	145	152	148	324	315	285	270	227	255	182	185	160	157	152	158	301	
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	0	0	0	0	1	0	1	111	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev CCGT-Gas		957	1114	698	943	1015	889	1010	794	718	615	668	685	670	515	637	574	462	974	834	615	695	433	468	477	626	593	686	586	366	311	487	508	357	380	396	600	872	1261	1268	454	347	374	569	542	528	479	709	680	
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	
SRev Co-Gen		6	15	18	17	17	16	17	19	14	12	12	11	11	11	10	10	8	11	12	8	8	12	11	11	8	9	9	9	9	9	9	9	10	11	9	11	10	9	10	10	9	10	10	10	9	10	9		
Syncon		640	640	489	640	640	640	766	977	977	1013	1013	1013	1164	1164	1164	1065	741	741	741	766	453	302	302	302	489	489	489	151	0	0	0	0	0	0	187	741	892	993	993	993	892	892	892	892	741	892	892	892	892
Hydro		164	149	278	142	146	143	93	47	125	204	245	246	115	117	118	140	180	381	306	313	241	395	479	447	504	340	387	386	498	718	724	721	684	738	650	302	261	175	175	173	130	132	133	265	134	130	128	181	
S.Reserve Total		1931	2113	1798	2076	2161	2015	2190	2189	2192	2192	2289	2499	2385	2246	2272	2333	2159	2538	2438	2166	1894	1431	1417	1393	1599	1592	1728	1632	1260	1278	1365	1383	1284	1433	1392	1976	2351	2722	2715	1857	1634	1589	1789	1718	1721	1662	1897	2063	