

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,634 MW
Hydro	2,251 MW
Distillate	0 MW
Total TNB	5,885 MW
Total IPP	14,190 MW
Total Co-Gen	60 MW
Total System	20,699 MW

Generation Mix

Type	MWh	Percentage
Gas	49,674	15.80 %
Hydro	11,448	3.64 %
Total TNB	61,122	19.44 %
ST-Coal	184,468	58.68 %
Gas	67,958	21.62 %
Total IPP	252,426	80.29 %
Co-Gen	1,110	0.35 %
Total Co-Gen	1,110	0.35 %
Total Generation	314,658	100.09 %
PLTG	-452	-0.14 %
HVDC	723	0.23 %
Interconnection	271	0.09 %
Net Energy	314,387	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:	21:00:00 Hour
Total Set On Bus	16,498 MW
TNB Generation	3,521 MW
IPP Generation	11,187 MW
Spinning Reserve	1,750 MW
Maximum Demand	14,734 MW
Net Energy	314,387 MWH
Load Factor	88.91 %

Fuel Cost

Total Cost:	38,308,760.65 RM
Cost per Unit	12.63 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	640
Hydro	239
Syncon	885
Thermal	270
Total	2,034

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	6
PAKA	102
PGPS	38
SRDG	11
TJGS	215
Total TNB	371

CBPS	55
KLPP	61
NPRI	152
PDPS	9
PGLA	109
PKLG	3
PLPS	32
PTEK	16
SGRI	61
SKSP	4
Total IPP	504
Total Gas	875
Total Gas Required	875

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	14487	13754	13303	12908	12512	12200	12218	11780	11217	11790	12332	12909	12951	12891	13175	13387	13345	13161	12710	13002	14510	14734	14669	14426

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
SKSP	BLK1	228	245	303	238	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TJGS	GT1A	223	221	226	223	223	224	223	228	214	214	223	196	190	131	151	111	138	229	228	224	229	224	225	226
TJGS	GT1B	209	215	217	212	209	210	219	220	210	207	214	190	183	121	141	104	131	215	219	218	220	223	217	215
TJGS	ST1C	247	244	253	248	244	244	251	250	245	249	242	222	229	189	197	150	158	243	250	247	251	248	245	246
TJGS	GT2A	215	216	213	213	213	213	216	216	216	216	216	216	216	215	148	137	135	138	213	215	215	215	215	215
TJGS	GT2B	210	210	210	210	210	210	210	210	213	213	213	213	213	211	145	134	134	134	211	211	211	211	211	211
TJGS	ST2C	258	258	258	258	258	258	256	256	256	256	256	256	256	221	212	212	212	257	255	255	255	255	257	257
Total CCGT-Gas		6201	6088	5985	5786	5600	5494	5250	5005	4738	4582	4385	4268	4274	4099	3828	3322	3202	3488	3751	4011	4075	4306	4510	4549
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
PDPS	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PCLG	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
PTEK	GT1A	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
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRDC	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
Total CCGT-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
BSIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	15	15	15	15	15
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
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	HY01	101	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	63	63	63	63	63	63	63	63
HTRG	HY02	100	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
KNRG	HY02	24	24	24	24	24	24	23	23	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23
KNRG	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
KNYR	HY01	96	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	97	97	97	97	97	97	97	97
KNYR	HY02	99	0	0	0	0	99	99	99	99	99	99	99	99	99	99	61	101	78	95	83	101	83	66	78
KNYR	HY03	-1	-1	-1	-1	102	102	101	101	101	101	101	101	101	92	100	100	100	100	100	100	100	100	100	100
KNYR	HY04	101	62	65	63	102	102	101	101	101	101	101	101	72	86	98	100	100	0	0	0	0	0	0	0
LPIA	HY01	13	13	12	12	13	13	13	12	12	13	13	12	13	13	6	6	6	6	6	14	13	13	14	13
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PGAU	HY01	-1	-1	-1	-1	34	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	22	21	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	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
SYPS	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
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	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
SYPS	HY04	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	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
TMGR	HY02	79	37	40	37	83	83	35	33	36	35	36	35	36	33	31	38	39	37	39	40	82	80	78	81
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

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																										
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																										
Total Hydro		643	227	169	164	412	375	473	403	398	401	402	403	401	403	333	325	394	398	394	417	398	432	407	365	311	284	327	315	329	275	261	323	272	291	261	204	191	227	349	858	1068	1094	1099	1085	1157	1006	940	837		
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	37	36	35	35	34	32	38	36	36	36	35	37	35	36	36	35	34	35	34	35	34	22	8	14	20	22	23	23	23	26	24	23	23	24	23	23	23	23	24	24	27	31	34	37						
PCUF	CUFK	17	16	16	17	16	17	16	17	17	16	18	17	18	16	17	17	16	18	18	17	17	18	17	18	17	18	17	17	17	15	15	17	17	17	17	16	17	16	16	16	16	17	17	16	18					
Total Co-Gen		54	52	51	52	50	49	54	53	53	52	53	54	51	53	52	52	51	51	52	40	25	31	38	39	41	40	40	43	39	38	40	41	41	39	40	40	39	40	40	44	48	50	55							
Total Gen		14503	13962	13819	13469	13240	13069	12945	12706	12526	12368	12221	12198	12203	12172	11894	11410	11203	11480	11750	11980	12314	12602	12899	12939	12918	12883	12875	13041	13184	13269	13375	13424	13364	13360	13192	12876	12758	12684	13062	14138	14563	14695	14748	14693	14660	14630	14453	14232		
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	
TIE-HVDC		30	30	30	31	31	30	30	29	29	31	31	30	30	29	29	31	31	31	31	31	31	30	30	31	31	30	30	31	31	30	30	31	31	29	29	29	29	29	29	29	29	30	30	31	31	31				
TIE-PLTG		-14	17	35	2	-93	-23	7	-24	-16	-6	-10	-35	-45	4	84	21	-45	-93	-71	-35	-49	-89	-40	-42	-64	-35	-46	-74	-21	-80	-43	-42	-11	40	0	-12	18	-18	31	8	24	47	-16	-33	-39	12	-3	12		
Interconnection		16	47	65	33	-63	7	37	5	14	24	21	-5	-15	33	114	52	-14	-62	-40	-5	-18	-60	-10	-11	-33	-5	-16	-44	9	-50	-12	-12	19	71	31	18	48	11	60	37	53	76	14	-2	-9	43	27	42		
System Total		14487	13915	13754	13436	13303	13062	12908	12701	12512	12344	12200	12203	12218	12139	11780	11358	11217	11542	11790	11985	12332	12662	12909	12950	12951	12888	12891	13085	13175	13319	13387	13436	13345	13289	13161	12858	12710	12673	13002	14101	14510	14619	14734	14695	14669	14587	14426	14190		
SRev ST-Coal		189	199	180	188	373	510	493	416	397	691	643	551	550	405	398	367	463	463	421	443	425	381	263	261	321	307	314	249	254	276	265	280	263	297	373	283	295	276	274	265	264	283	270	273	180	165	155	166		
SRev CCGT-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	149	29	65	59	76	57	68	102	107	100	102	159	5	6	5	3	85	45	159	0			
SRev CCGT-Gas		346	369	264	463	544	305	369	369	552	555	599	716	710	885	1156	1662	1782	1496	1233	973	909	831	627	588	400	575	672	608	557	726	580	584	596	600	766	831	945	1081	823	615	695	636	603	643	673	578	496	629		
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	
SRev Co-Gen		6	8	9	8	10	11	6	7	7	8	7	6	6	9	7	8	7	8	8	9	8	9	9	8	20	35	29	22	21	19	20	20	17	21	22	20	19	19	21	20	20	21	20	20	16	12	10	5		
Syncon		919	1146	1146	1146	743	894	894	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	1045	793	944	818	919	1020	1020	1020	869	869	869	1146	1146	1146	1146	1146	1146	1323	1272	1121	1020	818	631	631	480	631	631	818	818	818		
Hydro		106	195	128	133	238	174	176	95	100	97	96	95	97	95	165	173	104	100	104	233	101	193	117	158	112	139	247	259	328	230	244	232	283	254	244	174	188	303	382	275	252	226	372	235	391	280	263	263		
S.Reserve Total		1566	1917	1727	1938	1958	1894	1938	1932	2101	2396	2390	2413	2408	2439	2771	3255	3401	3112	2811	2451	2587	2232	1935	2035	1873	2076	2131	2007	2178	2426	2320	2321	2381	2375	2619	2733	2826	2900	2622	2152	1867	1803	1750	1805	1976	1898	1901	1881		