

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,336 MW
Hydro	2,011 MW
Distillate	0 MW
Total TNB	<u>5,347 MW</u>
Total IPP	<u>14,493 MW</u>
Total Co-Gen	<u>38 MW</u>
Total System	<u>19,878 MW</u>

Generation Mix

Type	MWh	Percentage
Gas	60,455	16.81 %
Hydro	27,642	7.69 %
Total TNB	88,097	24.50 %
ST-Coal	166,915	46.41 %
ST-Gas	7,477	2.08 %
ST-Oil	8,738	2.43 %
Gas	87,816	24.42 %
Total IPP	270,946	75.34 %
Co-Gen	1,673	0.47 %
Total Co-Gen	1,673	0.47 %
Total Generation	360,716	100.30 %
PLTG	363	0.10 %
HVDC	731	0.20 %
Interconnection	1,094	0.30 %
Net Energy	359,622	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:	15:30:00 Hour
Total Set On Bus	18,413 MW
TNB Generation	4,348 MW
IPP Generation	12,401 MW
Spinning Reserve	1,596 MW
Maximum Demand	16,789 MW
Net Energy	359,622 MWH
Load Factor	89.25 %

Fuel Cost

Total Cost:	62,032,622.85 RM
Cost per Unit	18.62 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	786
Hydro	359
Syncon	123
Thermal	229
Total	1,497

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
CBPS	24
GLGR	52
PAKA	187
PGPS	40
TJGS	176
Total TNB	480
CBPS	57
KLPP	99
MPSS	47
PGLA	94
PLPS	92
SGB3	72
SGRI	153
SKSP	46
YPKA	23
PKLG	79
Total IPP	761
Total Gas	1,240
Total Gas Required	1,330

Alternate Fuel Usage

Station	(mmscfd)
PKLG	90
Total	90

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	14865	13979	13622	13206	12856	12703	12746	12780	13173	14817	15780	16461	16378	15922	16431	16691	16657	16388	15203	15020	16147	16235	15811	15359

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
PGPS	GT3B	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
PGPS	ST3C	39	38	39	39	38	38	38	38	38	38	38	37	89	86	86	86	86	86	86	85	84	84	85	85
PLPS	GT11	111	113	117	117	84	65	65	66	64	64	65	111	108	111	126	127	122	144	144	144	141	140	127	115
PLPS	GT12	119	121	124	125	129	64	63	65	64	63	64	65	63	95	118	117	120	134	135	131	138	138	139	139
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	55	147	144	140	141	141	140	136	125	112	129
PLPS	ST18	137	138	139	140	138	99	98	98	97	98	97	97	98	103	137	135	134	141	200	210	205	205	206	206
SGB3	GT32	122	101	121	129	143	134	119	112	132	105	109	124	123	144	103	103	123	111	112	117	125	125	125	145
SGB3	GT33	115	96	114	123	137	128	112	103	124	101	103	118	116	141	98	96	116	107	104	111	117	118	118	137
SGB3	ST34	135	131	141	141	145	149	136	132	141	133	133	137	136	153	133	129	141	142	134	134	134	130	130	130
SGRI	GT11	105	105	108	108	78	64	65	65	65	65	65	65	86	109	109	113	109	109	111	122	125	137	136	114
SGRI	GT12	110	108	110	114	102	69	71	71	71	71	71	71	70	85	114	114	114	111	111	113	127	127	137	142
SGRI	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	131	109	120	122	132	132	111	110	107
SGRI	ST14	132	131	133	133	123	103	99	100	100	98	99	99	100	106	136	133	134	136	203	201	204	207	215	218
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	136	117	117	131	131	110	110	108	109
SGRI	GT22	138	32	0	0	0	0	0	0	0	0	0	0	0	0	103	122	121	136	137	111	111	112	112	111
SGRI	GT23	142	142	142	144	119	107	107	107	106	110	107	111	107	104	107	104	109	112	120	120	139	143	110	111
SGRI	ST24	147	119	70	67	62	60	61	62	59	63	64	57	61	63	59	63	63	62	65	178	196	208	211	215
SKSP	BLK1	227	222	220	257	263	327	235	225	292	219	219	224	221	342	217	218	223	309	260	218	249	254	261	343
TJGS	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	54	54	97	94	94	117	117
TJGS	GT1B	222	224	187	216	214	218	177	167	217	173	161	187	193	224	165	166	217	217	221	180	180	180	154	168
TJGS	ST1C	120	120	107	116	112	119	98	97	117	97	99	100	94	121	95	91	108	121	100	96	118	118	101	101
TJGS	GT2A	223	223	217	224	221	220	216	213	221	209	220	223	224	220	186	188	220	208	211	211	211	211	211	211
TJGS	GT2B	220	220	214	221	214	216	211	209	218	205	218	221	219	218	180	183	216	206	209	208	208	208	205	208
TJGS	ST2C	261	261	261	258	258	261	257	239	259	257	251	253	258	260	248	238	260	260	258	255	255	255	255	255
YPKA	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YPKA	BLK2	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		6142	5760	5351	5321	5192	5051	4833	4600	4605	4388	4407	4476	4473	4810	4569	4560	4924	5555	6056	6321	6697	6792	6958	7103
Total 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
BSIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
BSIA	HY02	0	0	0	0	0	0	0	0	0	0	0	19	0	23	23	23	23	23	23	23	23	23	23	23
BSIA	HY03	23	23	23	23	23	23	23	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
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
CEND	HY04	8	8	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7
HTRG	HY01	99	99	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	63	63	62	63	99	99	99	99
HTRG	HY02	99	99	99	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	99	99	99	99	99	99	99	99
KNRG	HY01	35	36	36	36	36	36	36	36	36	36	36	36	36	35	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
KNYR	HY01	98	94	100	100	100	99	100	98	99	99	99	102	99	95	99	100	99	99	99	99	101	101	99	99
KNYR	HY02	99	95	101	100	101	101	100	99	100	100	100	100	103	100	96	100	101	100	100	100	100	100	99	99
KNYR	HY04	100	96	101	102	102	101	101	101	101	101	101	101	104	101	97	101	102	101	101	101	101	101	101	101
LPIA	HY01	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	4	4	4	4	4
PGAU	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

