

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,094 MW
Hydro	2,103 MW
Distillate	0 MW
Total TNB	5,197 MW
Total IPP	14,530 MW
Total Co-Gen	0 MW
Total System	20,291 MW

Generation Mix

Type	MWh	Percentage
Gas	34,676	10.80 %
Hydro	11,751	3.66 %
Total TNB	46,427	14.45 %
ST-Coal	196,118	61.06 %
Gas	78,098	24.32 %
Total IPP	274,216	85.38 %
Co-Gen	1,452	0.45 %
Total Co-Gen	1,452	0.45 %
Total Generation	322,095	100.28 %
PLTG	184	0.06 %
HVDC	727	0.23 %
Interconnection	911	0.28 %
Net Energy	321,184	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	15,964 MW
TNB Generation	2,486 MW
IPP Generation	12,440 MW
Spinning Reserve	975 MW
Maximum Demand	14,988 MW
Net Energy	321,184 MWH
Load Factor	89.29 %

Fuel Cost

Total Cost:	50,703,693.50 RM
Cost per Unit	16.34 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	335
Hydro	118
Syncon	800
Thermal	276
Total	1,529

Time Weather Temperature

Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	208
Total TNB	237
CBPS	53
KLPP	79
NPRI	152
PGLA	99
PLPS	66
PTEK	7
SGRI	67
SKSP	54
Total IPP	576
Total Gas	814
Total Gas Required	814

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	14663	13992	13566	13082	12602	12404	12309	11991	11438	12007	12639	13232	13426	13354	13583	13677	13748	13456	13231	13566	14739	14988	14965	14669

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
BSIA	HY02	20	21	12	23	22	23	23	23	23	22	22	22	22	22	22	22	12	12	12	12	12	12	12	12
BSIA	HY03	24	24	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	6	7	7	7
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7
CEND	HY03	10	10	10	10	9	10	9	10	10	9	10	10	10	10	9	0	0	0	0	0	0	0	0	0
CEND	HY04	7	7	7	7	7	7	7	8	7	7	8	7	7	8	7	8	8	8	8	7	7	7	7	7
HTRG	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
HTRG	HY02	-1	64	-1	-1	6	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KNRG	HY01	34	34	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	36	36	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	35	35	24	25	25	26	26	26	26	26	25	26	26	26	25	25	25	26	26	26	25	24	24	24
KNYR	HY01	99	100	100	100	96	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	99	100	99	101	101	101	98
KNYR	HY02	99	0	101	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY03	99	100	100	100	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY04	102	103	102	102	99	64	64	64	62	62	61	62	61	61	65	63	60	101	100	102	102	103	103	103
LPIA	HY01	12	12	12	12	12	12	12	12	12	12	12	14	8	12	0	0	0	0	0	0	0	0	0	0
LPIA	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	15	22	22	22	22	22	22	22	22	22
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1
PGAU	HY02	20	20	-1	-1	-1	-1	-1	-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	19	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	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
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	82	83	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY02	84	85	87	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
TMGR	HY03	81	80	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	81	81	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UPIA	HY01	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total Hydro		998	970	743	546	439	207	206	208	209	206	205	204	205	224	203	203	196	203	211	207	185	182	329	432
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
PCUF	CUFG	35	35	36	34	36	34	36	35	35	36	35	37	35	35	35	35	33	33	33	34	34	33	34	34
PCUF	CUFK	39	25	25	26	25	26	25	25	25	27	26	26	26	26	24	24	26	26	26	24	25	25	26	27
Total Co-Gen		74	60	61	60	61	60	61	60	60	64	61	62	60	63	63	61	61	59	59	59	59	57	60	60
Total Gen		14701	14304	14057	13777	13568	13265	13085	12875	12630	12582	12459	12272	12330	12258	12040	11601	11484	11799	12044	12414	12664	12854	13257	13428
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
TIE-HVDC		31	30	30	31	31	31	29	29	30	30	31	31	31	30	31	31	29	29	30	30	31	31	30	30
TIE-PLTG		7	19	35	12	-29	-31	-28	-9	-2	-7	25	-17	-10	-4	18	29	16	-21	6	51	-4	-6	-5	-18
Interconnection		38	49	65	42	2	0	3	20	28	23	55	13	21	27	49	59	46	10	37	80	25	24	25	13
System Total		14663	14255	13992	13735	13566	13265	13082	12855	12602	12559	12404	12259	12309	12231	11991	11542	11438	11789	12007	12334	12639	12830	13232	13415
SRV ST-Coal		138	102	51	113	38	129	148	200	223	263	267	272	263	269	274	285	266	291	280	300	284	545	519	269

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																								
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	0	0	0	0	53	0	1	-2	-1	1	0	0								
SRev CCGT-Gas		299	690	469	541	719	798	959	1097	1266	1152	1251	1433	1382	1468	1660	2093	2225	1888	1915	1511	1260	804	576	568	561	553	547	375	307	249	292	280	334	350	709	994	994	998	468	169	139	171	97	125	137	158	223	345
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	20	19	20	19	20	19	20	20	19	20	16	19	18	20	17	17	19	19	21	21	21	21	21	23	20	20	21	23	22	22	21	21	19	23	22	20	21	22	19	20	17	17	17	18	18	20	16
Syncon		554	428	789	875	749	976	976	976	976	976	976	976	825	976	976	976	976	976	976	976	976	976	875	724	875	875	724	875	875	875	875	875	875	875	875	724	875	875	875	875	487	572	723	874	874	874	874	723
Hydro		296	350	166	68	201	106	107	105	104	107	108	109	108	240	110	112	113	110	240	235	107	110	68	73	198	69	70	196	197	65	77	74	76	155	119	369	240	287	231	78	173	332	159	34	37	38	135	251
S.Reserve Total		1293	1590	1494	1617	1726	2029	2209	2398	2589	2517	2622	2806	2748	2820	3040	3483	3597	3284	3430	3043	2648	2456	2160	1806	1764	1838	1852	1651	1585	1481	1745	1536	1582	1702	1810	2363	2389	2454	2106	1596	1089	1080	975	1328	1331	1360	1508	1592