

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,244 MW
Hydro	2,509 MW
Distillate	0 MW
Total TNB	5,753 MW
Total IPP	15,540 MW
Total Co-Gen	0 MW
Total System	21,293 MW

Generation Mix

Type	MWh	Percentage
Gas	28,795	11.39 %
Hydro	16,372	6.48 %
Total TNB	45,167	17.87 %
ST-Coal	122,443	48.44 %
ST-Gas	8,317	3.29 %
Gas	75,284	29.78 %
Total IPP	206,044	81.51 %
Co-Gen	1,184	0.47 %
Total Co-Gen	1,184	0.47 %
Total Generation	252,395	99.85 %
PLTG	77	0.03 %
HVDC	-464	-0.18 %
Interconnection	-387	-0.15 %
Net Energy	252,782	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:	20:00:00 Hour
Total Set On Bus	14,106 MW
TNB Generation	2,186 MW
IPP Generation	10,128 MW
Spinning Reserve	1,742 MW
Maximum Demand	12,372 MW
Net Energy	252,782 MWH
Load Factor	85.13 %

Fuel Cost

Total Cost:	40,373,550.15 RM
Cost per Unit	17.10 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	497
Hydro	381
Syncon	987
Thermal	627
Total	2,492

Time Weather Temperature

Afternoon	Hot	28
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
CBPS	29
GLGR	31
PGPS	44
TJGS	111
Total TNB	214

CBPS	54
KLPP	118
MPSS	57
NPRI	145
PGLA	118
PLPS	41
PTEK	3
PKLG	79

Total IPP 615

Total Gas 830

Total Gas Required 830

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	11294	10831	10390	10084	9823	9643	9686	9616	9176	9506	10001	10343	10280	10261	10358	10407	10372	10530	10508	11057	12372	12266	11933	11711

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	
CEND	HY03	10	9	10	9	10	10	9	10	10	9	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9
CEND	HY04	8	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	-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
HTRG	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	-1
KNRG	HY01	25	25	25	25	25	25	25	25	26	26	26	26	25	26	26	25	26	25	25	26	25	26	26	26	26
KNRG	HY02	25	26	26	26	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNYR	HY01	102	101	103	102	102	103	102	102	103	103	103	103	103	103	103	103	102	102	102	102	104	104	104	105	105
KNYR	HY02	100	99	103	103	103	103	103	103	103	104	104	103	103	103	103	102	102	103	103	105	105	105	105	105	105
KNYR	HY03	97	97	97	97	96	97	97	97	97	97	97	97	97	97	97	9	0	0	0	0	0	0	0	0	0
KNYR	HY04	106	106	106	106	106	107	106	106	107	106	107	107	107	107	106	106	106	106	106	106	106	106	106	106	107
LPIA	HY01	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5
PGAU	HY01	121	21	22	22	22	21	22	22	22	22	22	23	23	23	23	22	20	22	22	22	21	22	22	22	22
PGAU	HY02	114	-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	HY03	110	-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	110	110	19	20	20	19	19	19	19	19	20	20	19	21	21	21	21	21	20	20	20	20	20	20	20
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	30	30	30	30	30	30	30	50	50
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	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	0
SYPS	HY01	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	25	25	25	25
SYPS	HY02	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	17	17	17	17	17	17	17	25	25
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	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	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	-1
TMGR	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	-1
TMGR	HY04	31	29	30	29	30	28	32	29	29	34	32	33	35	34	31	30	33	36	39	36	35	33	31	32	31
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
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	-1
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Total Hydro		1070	691	608	607	608	578	586	579	580	588	585	590	594	585	584	582	586	590	510	563	577	568	572	573	571
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
PCUF	CUFG	37	35	35	36	35	37	35	35	36	35	36	35	37	36	37	35	35	34	35	33	34	34	34	33	33
PCUF	CUFK	12	15	15	13	14	14	15	14	15	13	14	14	14	15	14	14	13	14	15	14	13	14	15	14	15
Total Co-Gen		49	50	50	49	49	51	50	49	51	48	50	49	50	49	51	52	50	52	49	49	47	49	48	47	48
Total Gen		11284	10977	10793	10621	10367	10211	10069	9962	9789	9726	9638	9583	9651	9671	9593	9296	9161	9272	9411	9796	9953	10280	10332	10375	10264
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
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		19	0	-9	28	6	16	13	-1	-5	30	24	12	-7	-27	5	6	14	2	-66	-21	-19	15	-11	-2	
Interconnection		-10	-29	-38	-1	-23	-14	-15	-29	-34	1	-5	-18	-35	-55	-23	-22	-15	-28	-95	-50	-48	15	-11	-2	
System Total		11294	11006	10831	10622	10390	10225	10084	9991	9823	9725	9643	9601	9686	9726	9616	9318	9176	9300	9506	9846	10001	10265	10343	10377	10280
SRev ST-Coal		663	616	615	621	615	613	616	621	622	617	617	618	617	615	614	614	615	617	617	666	713	713	718	714	716
SRev OCGT-Gas		0	-1	-4	-4	-4	-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		152	92	128	67	138	168	105	106	177	45	97	93	34	11	84	360	413	272	58	392	465	578	590	533	655
SRev ST-Gas		46	46	46	46	46	47	47	47	47	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
SRev Co-Gen		-28	-29	-29	-28	-28	-30	-29	-28	-30	-27	-29	-28	-29	-28	-30	-31	-29	-31	-28	-28	-26	-28	-27	-26	-27
Syncon		799	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	1101	950	950	950	950	950	950

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																								
Hydro		237	264	347	348	347	338	330	337	336	328	331	326	322	324	325	327	323	319	399	497	483	492	488	487	489	487	482	444	442	445	448	575	444	440	439	439	439	315	300	313	83	187	172	184	242	167	190	177
S.Reserve Total		1869	2089	2204	2151	2215	2233	2170	2184	2253	2110	2163	2156	2091	2069	2140	2417	2469	2325	2194	2523	2631	2751	2765	2704	2830	2887	2796	2723	2701	2715	2670	2690	2695	2640	2678	2625	2652	2630	2568	2247	1742	1884	1776	1944	1936	1851	2040	1881