

Availability at Daily Maximum Demand Hour

ST-Coal	1,340 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	4,016 MW
Hydro	1,702 MW
Distillate	0 MW
Total TNB	<u>7,058 MW</u>
Total IPP	<u>10,096 MW</u>
Total Co-Gen	<u>0 MW</u>
Total System	<u>17,154 MW</u>

Maximum Demand Record

Date: 6/11/2014	16,901 MW
Date: 6/24/2014	355,911 MWH

Gas Usage

Station	(mmscfd)
CBPS	18
CBPS	31
GLGR	55
PAKA	102
PGGS	10
PGPS	43
SRDG	61
TJGS	224
Total TNB	544
KLPP	103
MPSS	54
PDPS	30
PGLA	118
PKLG	18
PLPS	98
PTEK	35
SGB3	85
SGRI	205
SKSP	58
YPKA	136
PKLG	39
Total IPP	979
Total Gas	1,523
Total Gas Required	1,553

Alternate Fuel Usage

Station	(mmscfd)
PKLG	30
Total	30

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	14:30:00 Hour
Total Set On Bus	17,138 MW
TNB Generation	6,202 MW
IPP Generation	9,510 MW
Spinning Reserve	1,349 MW
Maximum Demand	15,786 MW
Net Energy	325,017 MWH
Load Factor	85.79 %

Generation Mix

Type	MWh	Percentage
ST-Coal	41,321	12.71 %
Gas	68,661	21.13 %
Hydro	15,642	4.81 %
Total TNB	125,624	38.65 %
ST-Coal	73,784	22.70 %
ST-Gas	3,793	1.17 %
ST-Oil	3,096	0.95 %
Gas	117,046	36.01 %
Total IPP	197,719	60.83 %
Co-Gen	1,866	0.57 %
Total Co-Gen	1,866	0.57 %
Total Generation	325,209	100.06 %
PLTG	-538	-0.17 %
HVDC	730	0.22 %
Interconnection	192	0.06 %
Net Energy	325,017	100.00 %

Fuel Cost

Total Cost:	59,315,971.60 RM
Cost per Unit	19.16 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	525
Hydro	215
Syncon	351
Thermal	44
Total	1,135

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

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	12466	11912	11451	11001	10968	10763	11072	11099	11997	14032	14956	15609	15588	15152	15644	15643	15619	15097	14298	14147	14562	14435	13870	13167

Daily MW Generation on Monday

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	HY02	7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	10	9	9	9
CEND	HY03	7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37	
KNRG	HY02	38	37	37	38	38	38	38	38	38	38	38	38	38	37	37	36	36	36	36	36	36	36	36	
KNRG	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	37	36	36	36	36	36	36	36	36	36	
KNYR	HY01	99	82	56	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	101	98	100	99	100	98	94	94	93	98	
KNYR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	100	100	100	99	99	98	99	100	
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	101	97	99	99	100	98	93	94	92	98	
KNYR	HY04	102	80	61	103	103	60	103	103	102	59	103	103	103	61	103	93	101	101	58	100	59	61	58	
LPIA	HY01	10	10	9	11	11	9	11	11	10	10	12	11	11	10	11	10	10	10	20	0	0	0	0	
LPIA	HY02	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	6	6	6	6	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	
PGAU	HY02	-1	-1	-1	-1	-1	23	-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	81	-1	151	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY04	-1	-1	-1	-1	-1	22	22	22	22	-1	-1	-1	-1	-1	111	22	111	22	22	21	-1	-1	-1	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	30	30	0	0	0	0	30	30	
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	
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	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	
TMGR	HY01	36	33	0	0	0	0	0	0	0	0	0	0	0	60	75	78	76	78	75	73	74	73	79	
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	75	77	77	77	75	73	74	73	78	
TMGR	HY03	-1	30	29	36	42	30	35	41	35	31	43	91	91	90	84	38	34	32	59	76	77	77	77	
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	73	74	75	76	74	71	72	71	76	
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	
UPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	
Total Hydro		325	320	240	236	242	232	258	264	256	185	244	292	374	313	241	238	223	228	847	1148	952	1405	1009	
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	
PCUF	CUFG	52	52	52	51	53	52	53	52	53	52	52	51	52	53	52	52	53	52	49	39	49	48	48	
PCUF	CUFK	29	29	30	28	29	26	28	28	28	28	27	30	28	28	29	28	30	26	29	25	26	27	28	
Total Co-Gen		81	81	82	79	82	78	81	80	81	80	79	81	80	81	80	81	78	79	80	80	77	69	75	
Total Gen		12440	12116	11856	11856	11852	11308	10969	10939	10926	10848	10703	10787	11051	11251	11221	11303	12049	12980	13993	14614	14951	15435	15669	
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	
TIE-HVDC		30	30	30	30	31	31	30	30	31	31	30	30	30	30	31	31	31	31	31	31	31	31	30	
TIE-PLTG		-57	-101	-86	-45	-130	-24	-72	-34	-72	47	-90	-90	-32	-19	91	-67	22	-48	-69	33	-36	39		
Interconnection		-26	-70	-56	-15	-99	7	-41	-4	-42	78	-60	-60	-21	11	122	-36	52	-18	-39	63	-5	69		
System Total		12466	12186	11912	11871	11451	11301	11001	10943	10968	10770	10763	10847	11072	11240	11099	11339	11997	12998	14032	14551	14956	15609	15782	
SRev ST-Coal		64	83	73	58	53	-13	81	84	83	77	77	62	78	80	67	52	75	87	60	35	17	7		
SRev ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	160	20	214	189	145	353	644	628		
SRev CCGT-Gas		253	287	61	369	497	593	966	989	1010	1201	1430	1520	1272	1066	1108	1362	1341	518	237	346	316	503		
SRev ST-Gas		0	0	0	0	0	0	0	30	30	32	32	63	69	75	78	78	79	78	78	1	31	32		
SRev Co-Gen		-5	-5	-6	-3	-6	-2	-5	-4	-5	-4	-3	-5	-4	-5	-2	-3	-3	-4	-8	-6	-6	-3		
Syncon		726	725	725	826	826	524	675	675	675	826	826	826	826	826	454	1	303	1	303	303	303	303		
Hydro		69	75	155	58	52	364	187	181	189	109	50	2	71	132	53	56	71	66	105	280	174	173		

Daily MW Generation on Monday

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																								
S.Reserve Total		1107	1165	1093	1308	1422	1466	1904	1925	1982	2239	2412	2437	2155	2017	2123	2369	2389	1573	931	896	823	923	1072	1109	1131	1417	1763	1605	1354	1349	1459	1467	1178	1086	1213	1242	1515	1769	1848	1745	1169	1249	1099	965	1107	1113	1272	1171