

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Gas	3,625 MW
Hydro	1,748 MW
Distillate	0 MW
Total TNB	5,373 MW
Total IPP	14,128 MW
Total Co-Gen	24 MW
Total System	20,089 MW

Generation Mix

Type	MWh	Percentage
Gas	43,270	14.88 %
Hydro	4,948	1.70 %
Total TNB	48,218	16.58 %
ST-Coal	163,586	56.25 %
Gas	77,678	26.71 %
Total IPP	241,264	82.96 %
Co-Gen	477	0.16 %
Total Co-Gen	477	0.16 %
Total Generation	289,959	99.71 %
PLTG	-150	-0.05 %
HVDC	-697	-0.24 %
Interconnection	-847	-0.29 %
Net Energy	290,806	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	15,022 MW
TNB Generation	2,202 MW
IPP Generation	11,368 MW
Spinning Reserve	1,432 MW
Maximum Demand	13,656 MW
Net Energy	290,806 MWH
Load Factor	88.73 %

Fuel Cost

Total Cost:	35,277,075.65 RM
Cost per Unit	12.37 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	486
Hydro	143
Syncon	784
Thermal	168
Total	1,581

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

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	13518	13007	12590	12206	11885	11570	11412	10880	10125	10409	11109	11559	11634	11757	11891	12096	12153	12186	11870	12266	13567	13656	13591	13500

Gas Usage

Station	(mmscfd)
GLGR	52
PAKA	51
TJGS	208
Total TNB	312
CBPS	53
KLPP	61
NPRI	129
PGLA	105
PLPS	56
PTEK	1
SGB3	1
SGRI	166
Total IPP	571
Total Gas	883

Total Gas Required 883

Alternate Fuel Usage

Station	(mmscfd)
Total	0

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																											
TJGS	GT2A	222	222	222	222	222	222	222	222	222	146	143	145	145	145	145	145	220	213	213	213	213	213	215	215	215	215	212	212	212	215	215	213	173	145	145	191	214	215	212	212	212	213	213	213	213						
TJGS	GT2B	222	222	222	222	222	222	222	222	222	141	142	142	142	142	141	141	218	209	209	209	212	209	211	211	209	209	212	210	210	210	210	170	140	140	188	211	211	211	210	210	210	210	210	210	210	210	210				
TJGS	ST2C	263	263	263	263	263	263	263	263	263	216	217	217	217	217	217	217	249	258	258	258	258	258	258	258	258	258	258	258	258	258	244	216	216	226	258	258	258	258	258	258	258	258	258	258	258	258					
Total CCGT-Gas		6363	6059	5894	5736	5562	5266	4974	4723	4675	4581	4468	4390	4257	4085	3823	3459	3436	3539	3599	3923	4244	4479	4616	4817	4746	4794	4780	4853	4891	5025	5051	5090	5175	5241	5229	5071	4777	4799	5187	5899	6226	6260	6242	6351	6313	6329	6281	6168			
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	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		
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	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	HY02	11	12	12	11	11	12	11	12	12	11	11	11	11	11	11	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	23	23	14	12	11	11	12	12	11	12	11	12			
CEND	HY01	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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
CEND	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	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	
CEND	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	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	
CEND	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	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	
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	-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	HY02	21	22	22	22	21	23	22	21	21	21	21	21	21	21	21	21	22	21	22	21	22	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
KNYR	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
KNYR	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	-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		
KNYR	HY04	57	85	101	102	59	66	79	102	102	67	54	99	60	58	57	49	50	54	59	57	63	59	60	59	53	58	59	59	60	64	63	64	63	62	60	60	59	52	56	63	60	61	60	64	63	62	63	64			
LPIA	HY01	11	11	11	11	11	11	11	11	11	12	12	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
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	2	2	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	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	-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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
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	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
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	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
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	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
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	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
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	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	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	29	35	35	37	32	35	28	42	35	31	27	34	32	30	32	24	24	27	38	35	41	36	38	39	32	36	37	35	37	38	37	36	39	39	38	41	36	28	34	39	57	61	57	62	59	60	62	60			
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	-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	-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	-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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	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		141	177	193	195	146	158	184	202	195	153	137	189	148	145	146	208	229	204	170	183	173	176	175	154	165	167	195	175	181	179	178	182	181	176	178	312	317	328	311	323	268	263	273	267	188	190	190				
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			
PCUF	CUFK	22	20	21	19	19	19	21	21	20	20	20	19	21	20	20	21	20	19	20	20	18	20	21	19	20	20	18	19	19	20	19																				

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																								
S.Reserve Total		1497	1122	1341	1257	1186	1384	1592	1688	1764	1885	2014	2040	2225	2380	2639	3098	3250	3145	3082	2707	2378	2053	1826	1697	1798	1729	1856	1723	1706	1565	1532	1533	1447	1381	1512	1742	2406	2640	2243	1807	1589	1401	1432	1268	1347	1266	1325	1339