

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,448 MW
Distillate	0 MW
Total TNB	2,448 MW
Total IPP	17,725 MW
Total Co-Gen	0 MW
Total System	22,996 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,143	2.75 %
Gas	34,501	9.37 %
Total TNB	44,644	12.12 %
ST-Coal	238,209	64.68 %
LSS	2,522	0.68 %
Gas	82,233	22.33 %
Total IPP	322,964	87.70 %
Co-Gen	237	0.06 %
Total Co-Gen	237	0.06 %
Total Generation	367,845	99.89 %
PLTG	279	0.08 %
HVDC	-701	-0.19 %
Interconnection	-422	-0.11 %
Net Energy	368,267	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,725 MW
TNB Generation	2,787 MW
IPP Generation	14,557 MW
Spinning Reserve	1,375 MW
Maximum Demand	17,374 MW
Net Energy	368,267 MWH
Load Factor	88.32 %

Fuel Cost

Total Cost:	58,567,800.98 RM
Cost per Unit	15.92 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	476
Hydro	342
Syncon	863
Thermal	146
Total	1,827

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	27

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	15199	14361	13741	13316	12961	12811	13066	13132	13361	15079	15828	16465	16419	16132	16852	17209	17374	16930	15848	15667	16746	16843	16390	16075

Gas Usage

Station	(mmscfd)	Station	(mmscfd)
GLGR	48	Total	0
TJGS	200		
Total TNB	248		
CBPS	50		
KLPP	89		
NPRI	145		
PGLA	106		
PLPS	65		
YPKA	42		
Total IPP	497		
Total Gas	744		
Total Gas Required	744		

Alternate Fuel Usage

Daily MW Generation on Wednesday

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	HY01	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12																												
BSIA	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																												
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	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9																												
HTRG	HY01	-1	-1	-1	-1	65	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	65	64	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																												
KNRG	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																												
KNRG	HY02	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24																												
KNRG	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																												
KNYR	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																												
KNYR	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																												
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																												
KNYR	HY04	60	59	59	59	57	58	59	59	59	60	60	61	62	59	60	59	62	53	58	56	71	60	59	97	99																											
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18																												
LMOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	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	-1	-1	-1	-1	-1	-1	-1																												
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																												
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																												
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																												
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	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	HY02	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30																												
TMGR	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																												
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																												
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																												
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																												
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																												
UPIA	HY02	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2																												
Total Hydro		161	160	160	160	290	225	226	162	162	162	163	163	164	165	162	163	162	165	156	224	158	173	236	256	532	509	573	513	614	785	799	961	1125	1358	1243	802	303	231	231	508	813	812	808	600	504	374	294	262				
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	0	0		
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	5	6	7	6	6	7	6	5	5	6	5	5	4	4	6	5	6	4	6	5	5	5	3	5	5	5	4	6	5	5	2	5	5	4	6	5	5	4	6	5	5	4	4	5	5	4	5	4	4	5		
PCUF	CUFK	6	5	5	4	5	7	5	4	6	4	3	6	6	5	4	7	6	6	7	6	6	4	6	6	4	5	4	6	4	5	4	4	5	5	5	5	5	5	6	4	4	3	3	5	5	4	5	4	6	5		
Total Co-Gen		11	11	12	10	11	14	11	9	11	10	8	11	10	9	7	11	12	11	13	10	12	9	11	11	7	10	9	11	8	11	10	9	6	10	10	9	12	9	9	7	7	10	10	8	10	8	10	8	10	10		

Daily MW Generation on Wednesday

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																											
Total Gen		15164	14636	14333	13997	13706	13508	13289	12993	12926	12851	12785	12922	13067	13317	13116	13127	13302	14359	15016	15459	15811	16131	16408	16558	16414	16172	16082	16412	16840	17180	17199	17255	17350	17244	16968	16464	15844	15573	15670	16449	16779	16876	16814	16645	16407	16225	16067	15653			
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	0	0	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	-30	-30	-29	-30	-30	-29	-29	-28	-28	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-31	-28	-29	-29	-28	-28	-31	-30	-30	-28	-28	-31	-30	-30	-28	-28	-28	-28	-28	-28	-30		
TIE-PLTG		-3	10	5	17	-1	-21	6	8	-1	-2	7	35	34	43	17	-13	-26	-11	-29	-7	17	-47	-23	-57	27	-24	-18	-23	21	17	21	21	9	-23	69	59	27	52	34	54	66	40	2	61	48	26	24	10			
Interconnection		-32	-19	-24	-13	-31	-50	-23	-22	-31	-31	-22	7	5	13	-13	-43	-56	-41	-59	-37	-13	-76	-53	-85	-1	-53	-47	-53	-9	-12	-7	-9	-21	-53	41	31	-1	23	6	23	36	10	-26	34	20	-2	-5	-19			
System Total		15199	14658	14361	14014	13741	13562	13316	13019	12961	12886	12811	12919	13066	13308	13132	13173	13361	14403	15079	15500	15828	16211	16465	16647	16419	16229	16132	16468	16852	17195	17209	17267	17374	17300	16930	16436	15848	15553	15667	16429	16746	16869	16843	16614	16390	16230	16075	15675			
SRev ST-Coal		125	175	284	378	442	459	473	609	652	661	643	648	613	605	600	601	498	447	215	134	113	197	128	64	167	139	143	141	155	143	209	148	134	200	147	203	170	164	220	165	159	132	149	36	148	138	196	147			
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev CCGT-Gas		567	1044	1125	1185	1535	1652	1857	1858	1709	1736	1825	1666	1675	1429	1636	1694	1905	1166	1136	1052	781	522	411	422	859	1113	1274	868	513	351	246	252	196	176	384	344	620	757	775	315	295	222	323	395	517	587	669	892			
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	0	0	0
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		-1	-1	-2	0	-1	-4	-1	1	-1	0	2	-1	0	1	3	-1	-2	-1	-3	0	-2	1	-1	-1	3	0	1	-1	2	-1	0	1	4	0	0	1	-2	1	1	3	3	0	0	2	0	2	0	0			
Syncon		1355	1355	1355	1355	1103	1103	1103	1103	1103	1103	1103	1103	1103	1103	1103	1103	1103	1103	1103	1229	1229	1054	903	1041	1128	1128	1128	1079	928	777	590	590	252	403	928	1180	1267	1267	1180	691	691	691	1029	1029	1267	1267	1355				
Hydro		145	146	145	145	267	207	206	145	145	145	144	144	143	142	146	145	146	143	151	208	148	133	245	376	162	98	160	95	192	272	409	520	456	561	525	341	202	187	187	252	461	462	466	336	432	174	169	113			
S.Reserve Total		2191	2719	2907	3063	3346	3417	3638	3716	3608	3645	3717	3560	3534	3280	3488	3542	3650	2858	2602	2497	2269	2082	1837	1764	2232	2478	2706	2231	1941	1693	1641	1511	1380	1189	1459	1817	2170	2376	2450	1915	1609	1507	1629	1798	2126	2168	2301	2507			