

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,293 MW
Distillate	0 MW
Total TNB	2,293 MW
Total IPP	15,460 MW
Total Co-Gen	0 MW
Total System	19,015 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,804	6.95 %
Gas	21,506	6.28 %
Total TNB	45,310	13.24 %
ST-Coal	157,957	46.14 %
ST-Gas	4,043	1.18 %
ST-Oil	5,203	1.52 %
LSS	2,001	0.58 %
Distillate	1,219	0.36 %
Gas	121,998	35.64 %
Total IPP	292,421	85.42 %
Co-Gen	1,389	0.41 %
Total Co-Gen	1,389	0.41 %
Total Generation	339,120	99.06 %
PLTG	-929	-0.27 %
HVDC	-2,283	-0.67 %
Interconnection	-3,212	-0.94 %
Net Energy	342,332	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:	14:30:00 Hour
Total Set On Bus	17,135 MW
TNB Generation	2,259 MW
IPP Generation	13,253 MW
Spinning Reserve	1,567 MW
Maximum Demand	15,642 MW
Net Energy	342,332 MWH
Load Factor	91.19 %

Fuel Cost

Total Cost:	61,526,778.10 RM
Cost per Unit	18.13 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	506
Hydro	293
Syncon	788
Thermal	166
Total	1,753

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	105
Total TNB	156
CBPS	52
KLPP	93
MPSS	56
NPRI	140
PGLA	110
PLPS	80
SGB3	35
SGRI	97
SKSP	33
YPKA	101
PKLG	40
Total IPP	837
Total Gas	993

Total Gas Required 1,055

Alternate Fuel Usage

Station	(mmscfd)
PLPS	6
SGB3	2
SGRI	3
PKLG	52
Total	62

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	14193	13599	13112	12754	12503	12413	12483	12634	12771	13941	14709	15178	15161	15138	15433	15642	15625	15288	14672	15014	15447	15231	14866	14467

Daily MW Generation on Wednesday

		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																						
JMAH	U001	691	695	692	692	694	692	694	691	692	692	692	692	692	694	691	689	694	692	692	689	692	695	691	693	690	692	694	695	691	692	694	692	691	694	692													
JMHE	U001	980	849	851	850	851	852	848	847	853	851	851	850	849	851	853	851	850	843	852	984	979	979	979	979	978	977	983	977	979	979	979	980	980	978	984	978	978	980	979	978	980	981						
JMJD	U004	975	887	855	854	853	853	854	854	854	852	855	854	854	854	854	854	854	853	976	979	975	979	976	976	977	979	977	979	979	979	979	977	977	976	975	976	980	977	977	978	977							
PKLG	U003	282	284	285	283	283	282	279	281	282	281	283	284	283	281	282	281	283	281	284	282	281	282	280	281	283	282	282	280	279	282	278	281	286	285	284	281	282	282	281	280	281	280	280	282	282			
PKLG	U004	279	281	285	280	278	280	275	279	282	280	280	281	280	281	281	281	280	278	280	278	279	277	279	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	279	279	279	279				
PKLG	U005	468	469	466	468	468	457	467	469	469	466	466	468	468	469	466	466	464	466	468	470	468	466	466	468	468	465	466	468	468	468	467	468	453	393	357	361	433	469	464	472	467	465	467	468	466	467		
TBIN	U001	691	686	690	690	688	684	688	690	690	688	690	689	689	689	687	688	689	687	690	690	691	687	689	688	688	689	690	688	689	690	688	686	688	689	688	689	688	689	689	690	689	691	688	689				
TBIN	U002	692	691	690	691	691	689	692	692	693	690	691	691	693	689	692	695	693	691	694	694	692	691	691	693	694	693	693	692	690	691	690	692	689	693	691	691	689	694	690	690	693	686	692	692	690	693	691	692
TBIN	U003	691	692	691	690	693	693	690	692	691	692	694	691	691	693	690	691	692	692	692	692	692	692	692	693	693	690	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692		
TBIN	U004	981	899	850	853	852	853	852	854	853	851	855	853	853	853	854	852	852	854	853	918	983	982	983	981	981	982	983	983	983	984	983	983	982	982	983	983	979	983	981	981	985	979	982	981	981	981	980	
Total ST-Coal		6730	6433	6355	6351	6351	6335	6339	6349	6359	6343	6357	6353	6352	6352																																		

Daily MW Generation on Wednesday

[illegible]

Daily MW Generation on Wednesday

		0000		0100		0200		0300		0400		0500		0600		0700		0800		0900		1000		1100		1200		1300		1400		1500		1600		1700		1800		1900		2000		2100		2200		2300			
PLPS	GT11	151	152	152	152	34	65	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PLPS	GT12	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGB3	GT33	128	128	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	GT21	125	124	124	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 Distillate		557	404	312	191	34	65	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	4	5	6	13	5	8	11	20	25	27	10	12	21	21	23	24	15	3	6	3	1	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	4	7	23	28	32	36	40	43	37	43	36	34	46	31	41	34	22	14	8	7	4	2	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	2	13	13	13	31	35	25	35	46	36	36	36	25	25	14	25	24	24	14	14	6	3	3	3	3	3	0	0	0	0	0	0	0	0	
GNLS	LSS1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	19	25	32	41	20	39	25	40	31	27	50	39	7	40	9	9	9	4	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	3	7	8	11	19	40	24	27	34	48	44	31	38	44	46	10	13	6	5	2	1	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	2	7	18	18	22	40	44	48	49	50	50	50	17	50	40	42	44	27	13	6	2	1	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	1	2	22	25	32	38	46	51	38	58	42	58	28	19	17	58	41	1	1	1	0	1	1	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	1	2	2	3	4	6	9	12	15	18	19	33	29	39	24	18	19	19	15	12	5	1	0	0	0	0	0	0	0	0	0	0	0			
Total LSS		3	3	3	3	3	3	3	3	3	3	3	3	3	3	8	29	84	113	145	199	253	255	250	310	293	310	221	268	255	292	205	181	102	71	49	23	10	6	6	3	3	3	3	3	3	3	3	3	3	
PCUF	CUFG	26	26	24	24	25	25	26	25	26	25	26	25	26	25	25	25	27	25	26	25	26	24	25	26	25	26	25	25	25	25	25	26	24	26	26	25	25	24	26	25	26	25	26	25	24	25				
PCUF	CUFK	33	34	34	33	36	33	32	32	32	31	34	33	33	33	34	34	32	33	33	31	31	33	33	33	32	33	33	32	31	32	34	32	33	32	33	32	32	32	33	33	33	32	34	31	32	33				
Total Co-Gen		59	60	58	57	61	58	58	57	58	56	60	58	59	58	58	59	61	57	59	58	57	55	58	58	57	56	58	59	57	56	57	59	57	59	56	59	56	59	57	57	56	59	58	59	57	60	56	56	58	
Total Gen		13985	13650	13383	13191	12891	12735	12533	12385	12239	12210	12188	12177	12236	12427	12388	12253	12527	13240	13688	14225	14610	14936	15079	15200	15055	14999	15040	15137	15373	15568	15562	15539	15510	15448	15232	14937	14580	14518	14954	15530	15367	15310	15130	15062	14757	14567	14378	14101		
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		
TIE-HVDC		-196	-196	-196	-196	-197	-197	-195	-195	-196	-196	-195	-195	-196	-196	-196	-196	-195	-29	-29	-29	-29	-30	-30	-30	-29	-29	-29	-29	-28	-28	-30	-30	-29	-29	-29	-29	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29			
TIE-PLTG		0	-63	-8	-30	-12	-50	-14	-16	-56	-21	-18	-10	-39	-4	-38	-8	-36	4	-46	-62	-58	-24	-58	-45	-64	-23	-56	-64	-20	-33	-40	-21	-73	-29	-14	-60	-50	-35	-19	-20	-39	-93	-61	-56	-68	-76	-48	-86		
Interconnection		-196	-259	-204	-226	-209	-247	-209	-211	-252	-217	-213	-205	-235	-200	-234	-204	-232	-192	-241	-91	-87	-53	-87	-75	-94	-53	-86	-94	-48	-62	-68	-49	-103	-58	-44	-89	-80	-64	-48	-49	-68	-122	-89	-85	-97	-105	-77	-115		
System Total		14193	13921	13599	13429	13112	12994	12754	12608	12503	12439	12413	12394	12483	12639	12634	12469	12771	13444	13941	14328	14709	15001	15178	15287	15161	15064	15138	15243	15433	15642	15642	15600	15625	15518	15288	15038	14672	14594	15014	15591	15447	15444	15231	15159	14866	14684	14467	14228		
SRev ST-Coal		113	337	336	340	338	357	349	341	340	345	332	338	338	339	344	338	337	341	326	164	104	118	107	121	118	119	107	106	111	116	114	120	118	114	129	116	150	150	132	111	110	109	115	104	118	112	111	113		
SRev ST-Oil		0	1	0	0	-1	-2	0	0	69	67	67	67	68	68	34	74	67	67	68	68	-11	68	68	68	68	68	68	35	13	34	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	0	0	0	0	0	0	0	0	0	0	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		1374	1239	1338	1381	1665	1593	1643	1843	1934	1805	1845	1851	1794	1614	1815	1890	1499	1080	990	900	626	433	539	398	655	676	668	647	463	379	519	455	403	435	453	415	474	464	259	250	426	265	340	377	567	505	624	864		
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	36	7	2	33	32	72	73	75	75	75	75	75	22	3	-1	-2	-1	-2	71	69	69		
SRev Distillate		12	22	114	92	109	78	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		
SRev Co-Gen		16	15	17	18	14	17	17	18	17	19	15	17	16	17	17	16	14	18	16	17	18	20	17	17	18	19	17	16	18	19	18	16	18	16	19	16	18	16	18	19	16	17	16	18	15	19	19	17		
Syncon		525	676	676	827	827	913	913	913	913	913	913	913	913	913	913	913	913	1001	1001	1001	814	676	676	827	827	676	827	827	827	827	827	827	640	640	640	640	827	913	1039	1165	913	640	640	827	953	953	1079	1016	1167	1202
Hydro		462	331	328	200	204	213	179	190	187	186	187	186	185	180	184	186	129	131	134	241	380	286	218	220	332	203	195	268	269	194	289	286	293	280	270	395	285	216	301	387	394	429	354	393	322	378	249	251		
S.Reserve Total		2502	2621	2809	2858	3156	3169	3179	3305	3460	3335	3359	3372	3314	3131	3307	3417	3047	2638	2535	2204	1793	1601	1776	1651	1867	1912	1882	1935	1708	1571	1613	1549	1																	