

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,391 MW
Distillate	0 MW
Total TNB	2,391 MW
Total IPP	16,957 MW
Total Co-Gen	86 MW
Total System	21,936 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,325	2.45 %
Gas	45,504	11.94 %
Total TNB	54,829	14.39 %
ST-Coal	208,105	54.62 %
ST-Gas	3,895	1.02 %
LSS	1,404	0.37 %
Gas	109,697	28.79 %
Total IPP	323,101	84.80 %
Co-Gen	2,036	0.53 %
Total Co-Gen	2,036	0.53 %
Total Generation	379,966	99.72 %
PLTG	-375	-0.10 %
HVDC	-695	-0.18 %
Interconnection	-1,070	-0.28 %
Net Energy	381,036	100.00 %

Maximum Demand Record

Date: 3/19/2019	18,402 MW
Date: 3/20/2019	390,048 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	14:30:00 Hour
Total Set On Bus	19,449 MW
TNB Generation	2,995 MW
IPP Generation	14,656 MW
Spinning Reserve	1,716 MW
Maximum Demand	17,737 MW
Net Energy	381,036 MWH
Load Factor	89.51 %

Fuel Cost

Total Cost:	79,939,670.76 RM
Cost per Unit	21.57 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	665
Hydro	324
Syncon	845
Thermal	152
Total	1,986

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	53
PAKA	48
PGPS	34
TJGS	202
Total TNB	337
CBPS	52
KLPP	93
MPSS	41
NPRI	153
PGLA	105
PLPS	79
SGRI	65
SKSP	46
YPKA	71
PKLG	40
Total IPP	747
Total Gas	1,084
Total Gas Required	1,084

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	16085	15359	14801	14328	13893	13673	13856	13784	13881	15622	16641	17304	17264	16962	17527	17667	17647	17099	15950	15602	16746	16746	16344	15987

1 of 3

Daily MW Generation on Thursday

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	
SGRI	GT13	103	105	103	104	104	105	105	104	101	102	102	103	103	102	103	107	131	135	133	106	120	116	119	104	136	142	134	141	141	111	112	116	108	105	68	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	ST14	65	59	68	67	67	65	66	62	66	65	65	65	66	65	65	69	76	64	148	134	140	137	139	131	148	139	144	204	213	202	205	200	200	198	185	161	104	134	133	145	139	133	133	132	148	131	131	
SGRI	GT23	114	111	111	115	116	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	ST24	60	61	61	62	61	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SKSP	BLK1	272	268	219	221	222	221	217	218	220	218	218	218	220	219	219	218	218	218	223	256	218	272	220	276	220	217	221	219	225	223	286	293	290	231	215	235	221	323	294	335	295	324	317	339	336	219		
TJGS	GT1A	229	229	211	204	198	233	225	167	154	146	145	143	145	157	147	174	177	137	224	224	224	224	224	224	224	224	224	224	224	224	224	224	190	164	167	209	213	224	202	200	215	210	224	207	212			
TJGS	GT1B	210	210	201	193	187	214	209	154	136	131	131	135	134	144	140	132	135	160	162	126	211	211	211	211	208	208	208	208	209	210	212	212	209	209	212	176	152	154	201	197	208	205	190	205	198	209	194	199
TJGS	ST1C	243	243	228	228	202	239	245	210	183	179	179	179	179	186	181	179	179	218	207	186	242	242	242	242	242	242	242	242	242	242	242	242	242	237	193	186	213	240	240	240	225	236	232	248	233	241		
TJGS	GT2A	213	213	213	158	193	145	171	146	146	146	146	146	146	146	145	148	214	212	214	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	152	148	145	199	208	208	208	208	208	208	208	210		
TJGS	GT2B	211	211	211	201	191	144	174	144	144	143	146	144	146	146	146	144	211	211	211	211	211	211	211	211	211	209	211	211	211	211	211	211	211	211	211	148	144	144	199	207	207	207	207	207	206	206	206	
TJGS	ST2C	259	259	259	236	252	213	220	213																																								

Daily MW Generation on Thursday

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																									
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	13	20	21	21	18	23	20	23	26	32	11	2	1	1	0	2	7	2	1	1	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	2	5	10	6	9	12	34	35	36	38	19	32	3	0	1	3	5	9	8	8	5	2	1	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	3	9	17	23	29	35	39	44	46	50	39	50	50	50	49	11	19	38	29	22	13	6	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	3	8	15	22	28	34	38	41	44	46	32	47	38	45	18	38	30	32	26	20	13	6	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	4	13	18	27	42	49	38	52	17	1	3	5	7	8	4	6	13	10	5	6	3	2	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	4	8	16	22	28	34	38	41	43	45	46	46	44	43	44	19	21	31	27	18	10	3	1	0	0	0	0	0	0	0	0			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	2	16	40	82	104	141	178	219	217	244	216	160	204	172	156	122	76	82	123	102	80	49	21	5	0	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	46	45	46	47	47	46	47	46	47	46	46	46	47	46	47	46	47	46	44	46	45	46	45	43	45	45	44	46	43	45	45	45	44	43	46	45	45	46	45	46	46	46	46	45	46	46			
PCUF	CUFK	39	39	40	41	40	41	40	40	39	39	38	38	41	41	40	39	39	40	38	41	39	39	40	40	39	38	39	40	39	39	39	39	39	38	40	38	37	40	39	38	39	38	39	38	39	40	38	40	
Total Co-Gen		85	84	86	88	87	87	87	86	86	86	84	84	87	88	87	85	86	87	84	85	84	86	85	82	83	84	84	85	82	84	84	84	83	81	86	83	82	86	84	84	85	84	85	84	85	84	86	83	86
Total Gen		16073	15629	15331	14942	14722	14485	14293	14082	13822	13798	13638	13605	13721	13822	13729	13528	13833	14937	15556	16177	16562	17040	17221	17399	17200	17010	16913	17280	17475	17733	17668	17610	17642	17507	17084	16511	15950	15564	15502	16327	16682	16729	16750	16575	16284	16189	15934	15635	
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		
TIE-HVDC		-30	-28	-28	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29			
TIE-PLTG		18	59	0	-14	-50	-54	-5	1	-42	-28	-6	3	-105	-45	-27	6	-20	-4	-38	-9	-51	-39	-53	-49	-35	25	-21	40	-23	25	30	-17	24	3	13	1	30	-23	-70	-37	-36	-27	34	-6	-31	-58	-24	-11	
Interconnection		-12	30	-28	-43	-79	-84	-35	-28	-71	-57	-35	-27	-135	-73	-55	-22	-48	-33	-66	-38	-79	-68	-83	-78	-64	-3	-49	11	-52	-4	1	-46	-5	-31	-15	-29	0	-52	-100	-66	-64	-57	4	-35	-60	-88	-53	-40	
System Total		16085	15599	15359	14985	14801	14569	14328	14110	13893	13855	13673	13632	13856	13895	13784	13550	13881	14970	15622	16215	16641	17108	17304	17477	17264	17013	16962	17269	17527	17737	17667	17656	17647	17538	17099	16540	15950	15616	15602	16393	16746	16786	16746	16610	16344	16277	15987	15675	
SRev ST-Coal		117	120	123	125	249	323	332	305	331	326	337	325	335	337	320	338	323	324	321	115	118	119	120	115	132	135	128	117	111	141	116	130	118	121	105	122	116	115	138	127	167	114	130	105	136	116	141	101	
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		
SRev CCGT-Gas		882	876	1114	1160	1308	1356	1242	1399	1627	1661	1826	1853	1730	1628	1730	1917	1784	937	1036	977	739	553	586	424	539	646	754	858	723	531	531	544	517	651	855	1345	1683	1967	1754	883	682	546	795	677	737	378	601	935	
SRev ST-Gas		57	58	54	50	29	29	29	29	29	29	29	29	29	30	30	30	30	30	30	29	-2	-3	10	29	30	30	30	0	-2	-2	12	29	30	29	29	29	29	29	29	29	29	29	29	29	29	29	29		
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		1	2	0	-2	-1	-1	0	0	0	2	2	-1	-2	-1	1	0	-1	2	1	1	2	0	1	4	3	2	2	1	4	2	2	2	3	5	0	3	4	0	2	2	1	-29	-30	-29	-31	-28	-31		
Syncon		712	712	712	712	712	712	712	773	773	773	924	924	924	924	884	884	989	989	903	903	903	903	752	903	903	903	802	802	500	802	802	802	802	888	888	888	888	888	888	802	903	903	903	989	989	989	989		
Hydro		273	278	273	272	272	274	270	273	275	272	402	270	272	272	271	268	270	271	430	316	334	317	455	307	316	306	308	299	540	298	283	282	283	239	213	220	213	219	227	313	305	318	289	293	248	252	260		
S.Reserve Total		2042	2046	2276	2317	2569	2693	2584	2718	3035	3061	3369	3403	3289	3189	3275	3441	3289	2549	2649	2456	2107	1940	1924	1744	1895	2032	2123	2117	1966	1716	1747	1759	1733	1889	2122	2597	2939	3216	3028	2156	1995	1898	2146	1973	2069	1729	1984	2283	