

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	16,515 MW
Total Co-Gen	0 MW
Total System	21,786 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,244	2.56 %
Gas	32,562	10.10 %
Total TNB	40,806	12.66 %
ST-Coal	224,750	69.73 %
LSS	1,924	0.60 %
Gas	53,427	16.58 %
Total IPP	280,101	86.91 %
Co-Gen	354	0.11 %
Total Co-Gen	354	0.11 %
Total Generation	321,261	99.68 %
PLTG	-362	-0.11 %
HVDC	-673	-0.21 %
Interconnection	-1,035	-0.32 %
Net Energy	322,296	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:	21:00:00 Hour
Total Set On Bus	16,819 MW
TNB Generation	2,005 MW
IPP Generation	13,074 MW
Spinning Reserve	1,661 MW
Maximum Demand	15,286 MW
Net Energy	322,296 MWH
Load Factor	87.85 %

Fuel Cost

Total Cost:	49,044,893.22 RM
Cost per Unit	15.27 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	474
Hydro	205
Syncon	814
Thermal	205
Total	1,698

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	200
Total TNB	231
KLPP	56
NPRI	75
PGLA	79
PLPS	50
YPKA	29
Total IPP	288
Total Gas	518
Total Gas Required	518

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	14341	13791	13316	12954	12492	12374	12268	12127	11586	12108	12758	13256	13275	13238	13634	13795	13880	13668	13559	13787	15177	15286	14880	14506

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
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
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	23	23	23	23	23	23	23	23	23	23	23	23	23	22	22	22	22	22	23	23	23	24	23	23
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	99	99	99	98	98	98	99	59
KNYR	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	HY04	58	59	59	59	58	58	59	59	60	60	60	58	62	57	59	57	58	57	75	96	59	69	98	73
LPJA	HY01	17	17	17	17	17	17	17	17	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	17
MNOR	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	19	-1	-1	-1	-1	-1	-1	-1	16	0	0	0	0	0	0	0	0	0
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0
PGAU	HY03	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	0	0	0	0	0	0	0	0	0	0
PGAU	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
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	29	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	32	33	32	32	32	32	32	32	0	0	0
TMGR	HY02	31	34	32	34	32	32	34	34	34	34	33	34	34	35	34	35	36	36	35	35	36	35	35	36
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		207	162	160	162	159	159	162	182	162	163	162	159	186	161	165	162	164	163	252	239	200	210	241	214
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	4	6	11	14	15	17	26	17
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	10	27	32	28	21	36	32	43	38
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	6	18	29	29	19	8	18	29	19	8	8
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	8	14	15	42	49	50	49	29	50
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	15	32	23	31	39	28	39	50
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	8	10	17	15	22	25	43	45	28
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	8	12	6	16	17	35	47	3	18
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	19	30	38	41	50	55	51	57
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	9	21	27	24	32	32	32	34	23
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	13	40	71	134	193	199	239	289	322	319	279
PCUF	CUFG	4	6	5	5	6	5	5	3	6	5	5	5	5	2	5	5	4	4	5	6	5	4	5	4
PCUF	CUFK	5	7	5	4	6	5	6	5	9	5	3	5	5	5	5	4	4	5	5	4	6	1	4	5
Total Co-Gen		9	13	10	9	12	10	11	8	15	10	8	10	7	10	8	9	8	9	10	10	9	10	8	10
Total Gen		14312	14052	13734	13583	13249	13033	12885	12709	12442	12358	12312	12199	12257	12269	12093	11745	11559	11738	12068	12404	12743	12949	13206	13277
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
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29
TIE-PLTG		0	-51	-28	-18	-38	-25	-40	-15	-20	-35	-32	0	18	-6	-5	-3	2	35	-11	-2	14	22	-21	
Interconnection		-29	-80	-57	-47	-67	-54	-69	-45	-50	-64	-62	-29	-11	-35	-34	-32	-27	6	-40	-31	-15	-7	-50	
System Total		14341	14132	13791	13630	13316	13087	12954	12754	12492	12422	12374	12228	12268	12304	12127	11777	11586	11732	12108	12435	12758	12956	13256	13307

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																									
SRev ST-Coal		156	412	444	541	554	541	547	552	554	550	553	473	405	590	556	538	450	554	447	500	236	204	230	221	217	224	204	218	219	202	214	212	219	225	227	203	217	212	218	238	187	175	179	177	182	172	195	249	
SRev OCGT-Gas		44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		396	289	384	270	535	456	402	509	540	398	445	674	479	345	508	869	1156	1065	963	710	784	747	623	586	702	713	758	586	729	421	475	285	320	401	385	570	1121	1273	1099	547	288	240	199	296	375	519	514	519	
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	
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
SRev Co-Gen		73	69	72	73	70	72	71	74	67	72	74	72	75	72	74	73	74	73	72	72	73	72	74	72	76	75	72	74	73	70	70	72	70	72	74	73	71	72	74	74	24	5	3	11	72	71	72	73	
Syncon		1116	1267	1267	1267	1267	1267	1267	1116	1267	1267	1267	1267	1267	1267	965	814	814	814	814	814	814	814	814	814	814	814	713	526	713	713	713	713	713	713	713	734	755	776	776	776	1015	928	1079	1079	993	993	993		
Hydro		296	140	142	140	143	143	140	271	140	139	140	143	267	141	137	140	138	139	438	152	191	181	150	177	165	120	140	113	175	185	184	183	203	203	154	130	132	115	103	104	213	381	352	271	276	231	234	233	
S.Reserve Total		2081	2177	2309	2291	2569	2479	2427	2522	2568	2426	2479	2629	2342	2415	2542	2887	3085	3098	2885	2248	2098	2018	1891	1870	1974	1946	1988	1704	1722	1591	1656	1465	1525	1614	1553	1689	2275	2427	2270	1739	1488	1816	1661	1834	1984	1986	2008	2067	