

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,522 MW
Distillate	0 MW
Total TNB	2,522 MW
Total IPP	15,802 MW
Total Co-Gen	0 MW
Total System	21,155 MW

Generation Mix

Type	MWh	Percentage
Hydro	27,289	7.97 %
Gas	39,390	11.51 %
Total TNB	66,679	19.48 %
ST-Coal	202,179	59.07 %
LSS	2,991	0.87 %
Gas	70,197	20.51 %
Total IPP	275,367	80.45 %
Co-Gen	206	0.06 %
Total Co-Gen	206	0.06 %
Total Generation	342,252	99.99 %
PLTG	572	0.17 %
HVDC	-608	-0.18 %
Interconnection	-36	-0.01 %
Net Energy	342,288	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	17,052 MW
TNB Generation	3,614 MW
IPP Generation	12,330 MW
Spinning Reserve	1,099 MW
Maximum Demand	15,980 MW
Net Energy	342,288 MWH
Load Factor	89.25 %

Fuel Cost

Total Cost:	45,085,701.85 RM
Cost per Unit	13.16 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	341
Hydro	400
Syncon	439
Thermal	167
Total	1,347

Time Weather Temperature

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	45
SRDG	4
TJGS	198
Total TNB	247
KLPP	88
NPRI	148
PGLA	87
PLPS	77
Total IPP	400
Total Gas	647
Total Gas Required	647

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	13706	13126	12702	12300	12001	11768	11961	12190	12576	14108	14803	15196	15229	15030	15610	15834	15980	15711	14887	14919	15935	15845	15418	15208

Daily MW Generation on Monday

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
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY02	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY03	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
CEND	HY04	8	8	8	8	8	8	7	8	8	8	8	8	8	8	8	8	8	8	7	8	8	7	7	7
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	63	63	63	0	0	0	0	0
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	125	125	124	62	63	-1	-1	-1	-1
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36	36	36	36	36	36	36
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37	37	37	37	37	37	37
KNRG	HY03	24	37	37	37	37	37	37	37	37	37	37	35	35	35	35	35	35	35	35	35	35	35	35	35
KNYR	HY01	59	101	101	101	101	100	101	101	101	101	101	101	101	101	101	100	101	101	101	101	101	101	101	101
KNYR	HY02	58	105	106	106	106	105	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
KNYR	HY03	59	101	101	101	102	101	102	101	101	101	102	102	102	101	101	101	101	102	101	101	101	102	101	101
KNYR	HY04	59	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	102	102	101	101	101	101
LPIA	HY01	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
LPIA	HY02	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	22	22	22	22
MNOR	HY01	2	2	2	2	2	2	2	2	2	2	2	5	5	5	5	4	4	7	7	7	9	9	9	9
PGAU	HY01	-1	-1	-1	19	-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	113	113	-1	-1	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	21	21	21	21	21	21	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	21	21	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	48	49	32	31	0	0	31	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	40	30	0	0	49	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	51	30	0	0	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	17	17	17	
TMGR	HY01	28	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	85	82	82	82	82	82	82	
TMGR	HY02	42	48	56	44	47	44	45	45	45	44	45	47	44	44	46	63	44	48	45	45	76	81	89	
TMGR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85	85	85	84	85	85	85	85	85	
TMGR	HY04	38	45	53	41	44	40	41	42	42	41	41	41	43	41	44	43	59	41	45	42	41	72	76	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	96	96	92	95	95	97	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	98	99	102	98	98	
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	
UPIA	HY02	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
Total Hydro		466	648	664	661	647	637	642	642	641	641	642	642	647	643	668	644	681	1166	1160	1277	1161	1485	1431	
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	7	11	12	13	21	24	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	14	18	15	20	27	21	29	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	16	23	23	29	30	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	13	14	21	28	38	44	48	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	13	14	17	13	30	38	40	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	7	7	10	13	5	19	21	
GMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	17	16	29	35	41	43	35	
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	12	21	17	30	33	43	50	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15	13	31	29	38	41	43	
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	13	23	25	29	29	30	

Daily MW Generation on Monday

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																									
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	10	10	7	22	16	11	25	22	15	18	9	20	9	10	13	6	5	3	3	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	2	6	11	15	30	36	37	45	35	52	52	45	45	52	49	39	38	27	23	14	10	5	2	0	0	0	0	0	0	0	0	0	0			
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	11	21	16	33	28	35	24	30	27	28	29	17	17	30	29	17	7	5	4	1	0	0	0	0	0	0	0	0	0	0				
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	1	4	4	8	10	18	12	18	8	13	9	9	9	8	3	4	2	2	1	0	0	0	0	0	0	0	0	0	0					
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	22	78	134	172	262	283	384	419	439	474	460	435	384	375	379	307	298	253	180	99	86	51	13	0	0	0	0	0	0	0	0	0	0				
PCUF	CUFG	5	5	7	7	8	5	6	8	6	7	6	6	7	7	6	9	7	4	6	4	3	4	4	4	5	4	4	5	5	6	7	6	7	6	7	3	4	5	7	6	4	3	4	2	6	7	6		
PCUF	CUFK	3	1	3	2	3	3	3	3	3	3	3	3	5	4	4	4	4	5	7	1	3	3	4	1	5	3	3	2	2	4	3	4	4	1	3	3	4	4	3	2	3	2	4	0	3	3			
Total Co-Gen		8	6	10	9	11	8	9	11	9	10	9	9	12	11	8	10	9	10	5	7	7	9	5	9	8	8	7	8	11	9	11	10	8	6	7	9	11	9	6	6	6	6	6	6	10	9			
Total Gen		13806	13569	13194	12938	12690	12445	12285	12117	11986	11823	11801	11777	11889	12056	12194	12346	12552	13534	14042	14441	14776	15068	15186	15318	15146	14997	14996	15247	15568	15818	15851	15890	15953	15963	15705	15249	14898	14741	14896	15675	15905	15898	15825	15608	15389	15307	15143	14836	
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		30	31	31	-31	-28	-29	-29	-29	-29	-28	-28	-28	-31	-29	-31	-29	-31	-28	-28	-31	-28	-28	-28	-31	-28	-30	-30	-30	-29	-30	-30	-31	-31	-28	-28	-28	-28	-30	-31	-29	-28	-28	-28	-30	-31	-29	-30		
TIE-PLTG		79	165	48	52	27	71	25	11	25	31	71	58	-34	30	45	-13	15	20	-24	-18	14	6	29	-18	-42	11	5	4	-4	16	57	27	15	30	35	37	52	45	19	3	9	49	20	32	12	25	-26	-1	
Interconnection		110	196	79	22	-1	43	-4	-18	-4	1	43	30	-62	2	15	-42	-13	-9	-55	-47	-16	-22	1	-46	-72	-17	-24	-24	-32	-14	28	-4	-16	0	5	8	22	14	-12	-28	-19	21	-9	4	-18	-6	-55	-31	
System Total		13706	13384	13126	12927	12702	12413	12300	12146	12001	11832	11768	11757	11961	12065	12190	12399	12576	13554	14108	14499	14803	15101	15196	15375	15229	15024	15030	15281	15610	15843	15834	15905	15980	15974	15711	15252	14887	14738	14919	15714	15935	15888	15845	15615	15418	15323	15208	14877	
SRev ST-Coal		288	417	433	442	523	540	529	524	442	525	577	641	639	653	439	446	439	423	277	136	137	141	139	133	132	135	127	162	168	178	170	181	167	171	183	173	175	176	161	177	163	181	185	171	175	185	174	175	
SRev CCGT-Gas		949	869	1138	998	1074	1230	1037	1100	1139	1223	1191	1151	969	789	596	934	771	570	460	500	291	335	411	356	388	557	420	299	241	272	298	222	272	284	300	320	291	289	320	278	368	598	296	253	333	383	410	441	
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 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
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	4	4	4	1	2	58	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Syncon		953	1040	1040	889	1040	1040	1040	1040	1040	1040	1040	1040	1040	1040	889	1040	1040	489	640	640	489	489	615	615	802	802	802	489	489	302	302	302	302	151	151	489	489	651	428	302	151	151	338	615	802	802	802	953	
Hydro		374	115	99	253	116	126	121	121	122	123	122	117	120	247	119	82	362	217	225	492	418	346	266	242	251	208	388	445	430	506	448	359	423	578	547	517	479	568	370	388	482	686	358	306	179	251	165		
S.Reserve Total		2564	2441	2710	2582	2753	2936	2727	2785	2743	2911	2930	2954	2765	2602	2171	2539	2332	1844	1594	1501	1409	1383	1511	1370	1564	1745	1557	1338	1343	1182	1280	1157	1104	1030	1214	1587	1472	1595	1477	1127	1070	1412	1505	1397	1616	1549	1637	1734	