

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,459 MW
Distillate	0 MW
Total TNB	2,459 MW
Total IPP	14,993 MW
Total Co-Gen	0 MW
Total System	21,009 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,752	6.42 %
Gas	48,597	13.71 %
Total TNB	71,349	20.12 %
ST-Coal	177,377	50.03 %
ST-Oil	4,115	1.16 %
LSS	2,005	0.57 %
Gas	98,651	27.82 %
Total IPP	282,148	79.58 %
Co-Gen	1,301	0.37 %
Total Co-Gen	1,301	0.37 %
Total Generation	354,798	100.07 %
PLTG	-476	-0.13 %
HVDC	723	0.20 %
Interconnection	247	0.07 %
Net Energy	354,551	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:	11:00:00 Hour
Total Set On Bus	17,537 MW
TNB Generation	3,788 MW
IPP Generation	12,394 MW
Spinning Reserve	1,299 MW
Maximum Demand	16,275 MW
Net Energy	354,551 MWH
Load Factor	90.77 %

Fuel Cost

Total Cost:	84,365,334.33 RM
Cost per Unit	23.78 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	461
Hydro	368
Syncon	500
Thermal	202
Total	1,531

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	51
TJGS	179
Total TNB	230
CBPS	48
EMPP	189
KLPP	37
NPRI	146
PCGP	75
PGLA	101
PLPS	37
SGB3	33
SPGP	102
Total IPP	768
Total Gas	999
Total Gas Required	1,040

Alternate Fuel Usage

Station	(mmscfd)
PKLG	41
Total	41

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	14652	13848	13451	13010	12850	12649	12840	13002	13602	15223	15837	16275	16091	15567	16029	16235	16182	15934	15144	15262	15924	15590	14882	14507

Daily MW Generation on Thursday

		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		694	694	694	694	693	695	696	694	695	694	696	693	695	695	694	695	692	694	696	693	694	693	693	694	694	694	696	693	695	694	695	696	695	694	693	695	694	693	695	694						
JMAH	U002		696	696	694	697	697	696	697	696	700	695	693	696	694	693	696	695	697	694	696	696	695	694	696	694	695	695	697	696	693	695	696	696	693	695	693	697	694	693	698	695	697	696				
JMHE	U001		950	949	950	949	848	851	849	853	851	848	848	851	850	850	847	849	853	900	953	952	949	952	951	950	950	951	948	949	952	950	949	950	952	954	947	954	949	951	949	950	949	952	950	951	951	951
JMHE	U002		951	954	948	950	849	852	850	852	850	852	848	850	850	848	847	847	850	901	952	951	948	948	951	948	951	953	948	950	952	953	951	948	904	845	788	749	697	637	576	550	552	551	549			
JMJG	U002		667	667	668	662	670	672	667	666	668	668	666	662	670	668	668	670	666	668	667	667	661	671	648	661	668	667	667	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668	668			
JMJG	U004		855	854	853	855	857	854	857	857	854	856	855	854	854	855	854	855	853	855	856	856	855	855	854	858	857	856	858	859	858	858	858	855	855	855	855	855	855	855	855	855	855	855	855	855	855	
JMJG	U005		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	171	190	219	212	267	315	357	505	524	631	672	700	700	780	780	780	780	780	764	764	764	764	764	764	764	764		
PKLG	U003		254	256	255	254	255	257	257	254	254	255	255	255	255	256	255	251	257	253	254	254	254	255	256	252	258	253	255	255	255	253	255	253	255	207	205	218	246	205	209	205	208	205	208	206	207	207
PKLG	U004		282	278	276	276	276	272	276	274	272	273	272	273	278	276	282	281	275	277	269	276	275	279	275	278	277	273	274	274	273	277	278	276	270	276	276	269	275	274	276	279	278	276	278	276	276	
PKLG	U006		449	449	449	451	447	450	449	450	448	446	448	449	445	449	448	447	446	449	450	449	448	449	449	449	449	448	449	447	450	449	386	346	358	358	358	358	358	358	358	358	358	358	358	360		
TBIN	U001		690	688	689	688	688	689	689	689	687	689	688	689	688	690	689	689																														

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		
BSIA	HY03	23	22	22	14	11	11	11	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
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	9	
CEND	HY02	9	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	9	
CEND	HY04	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	8	8	7	8	8	8	
HTRG	HY01	62	63	63	63	62	62	62	63	63	63	63	63	124	125	125	125	62	-1	-1	-1	-1	-1	-1	-1	-1	
HTRG	HY02	63	63	63	63	63	63	63	63	63	63	63	63	123	63	63	63	63	63	63	63	63	0	0	0	0	
HTRG	HY03	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
KNRG	HY01	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	21	20	20	21	21	20	
KNRG	HY02	36	35	35	35	35	35	35	34	35	35	35	35	35	35	35	35	35	35	35	22	21	22	22	21	21	
KNRG	HY03	35	35	35	35	35	34	34	34	35	34	35	35	35	34	34	34	35	34	34	21	21	21	21	21	21	
KNYR	HY01	95	72	65	78	83	85	97	71	90	96	96	89	96	100	94	100	98	85	96	96	90	97	92	90	95	
KNYR	HY02	99	99	98	98	98	97	97	97	97	97	97	98	102	101	102	100	100	98	98	97	97	97	97	98	98	
KNYR	HY03	99	99	99	98	99	98	98	98	98	98	98	101	101	101	100	100	98	98	97	97	97	97	97	98	98	
KNYR	HY04	100	100	99	99	99	99	99	99	99	99	99	102	101	102	100	100	99	97	97	96	96	94	93	93	96	
LPIA	HY01	19	19	19	19	19	19	19	18	18	18	18	18	18	19	19	19	19	18	18	18	19	19	19	20	20	
LPIA	HY02	19	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	18	18	18	19	19	19	19	19	
MNOR	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	0	
PGAU	HY01	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	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	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	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	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	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	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	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	0	
TMGR	HY01	31	31	30	31	30	32	31	31	31	32	31	31	31	35	32	34	34	34	33	82	83	83	82	81	31	32
TMGR	HY02	33	32	31	32	32	33	32	33	32	33	32	33	36	34	35	35	35	35	82	85	85	82	82	33	33	35
TMGR	HY03	41	39	39	39	40	42	39	40	41	41	40	40	84	41	78	70	41	84	84	47	83	83	72	62	59	48
TMGR	HY04	84	61	42	65	77	77	84	62	84	84	84	86	84	84	84	84	77	84	84	49	83	83	75	63	60	50
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	-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	-1	
UPIA	HY01	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
Total Hydro		965	913	882	911	926	949	947	906	947	959	956	951	957	1025	988	1015	999	952	1013	1031	1269	1306	1392	1351	1198	878
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	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	1	3	3	8	7	9	10	12	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	9	6	9	14	15	21	15	17	21	31	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	4	5	7	8	8	14	18	26	19	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	2	2	9	5	5	9	15	15	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	7	9	10	6	6	6	4	2	0	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	6	10	10	13	23	19	16	27	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	5	4	12	11	20	18	30	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	6	6	5	6	9	11	5	13	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	7	14	14	18	22	25	23	34	50	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	6	9	10	11	18	20	37	26	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	8	8	7	6	12	21	20	16	

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																								
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	6	9	13	14	17	21	20	15	15	15	14	6	9	8	7	5	4	2	1	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	3	5	13	22	18	13	51	49	34	29	46	45	27	23	18	5	4	4	4	4	2	1	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	1	1	0	2	4	7	9	8	14	13	16	12	11	14	14	11	10	8	5	4	2	1	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	1	2	5	7	8	9	10	15	16	16	19	11	13	16	17	12	11	12	10	7	4	2	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	1	2	0	3	7	15	5	9	5	14	13	12	12	9	3	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0			
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	6	4	2	1	3	2	2	1	1	2	3	2	2	1	1	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	0	3	17	41	79	107	128	147	210	227	246	274	409	367	307	294	264	214	168	151	137	116	62	35	15	4	0	0	0	0	0	0	0	0		
PCUF	CUFG	29	29	28	28	29	28	27	28	27	29	28	28	27	29	27	27	26	25	28	29	28	28	28	29	28	29	28	28	29	28	29	29	29	29	28	29	28	30	27	27	28	28	28					
PCUF	CUFK	35	36	26	26	25	25	25	27	25	26	25	26	26	25	27	26	27	26	26	26	27	25	25	26	24	26	25	25	27	26	25	27	26	24	25	26	26	26	26	26	26	26	25	25	27	26		
Total Co-Gen		64	65	54	54	54	53	52	55	52	54	52	54	54	53	54	55	54	54	52	51	54	56	53	53	54	52	55	53	54	55	54	54	55	53	53	53	55	55	55	54	55	54	56	52	52	55	54	
Total Gen		14633	14252	13908	13693	13486	13304	13017	12912	12874	12757	12683	12658	12858	13021	13032	13306	13619	14702	15199	15593	15873	16078	16238	16195	16082	15678	15615	15863	16021	16165	16227	16148	16169	16114	15940	15492	15192	15031	15273	15856	15928	15748	15579	15309	14866	14640	14511	14155
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			
TIE-HVDC		31	31	30	30	31	29	30	30	29	29	31	31	31	31	31	31	29	29	28	31	31	31	31	31	31	29	30	30	30	30	30	30	30	29	29	29	31	31	30	30	30	30	29	29	30	30		
TIE-PLTG		-50	2	29	1	4	-27	-24	-28	-5	-12	4	36	-11	-16	-1	-40	-14	10	-55	-19	7	-43	-65	-69	-40	-27	17	-17	-37	-33	-38	-2	-44	33	-24	-27	18	17	-18	-23	-27	-39	-41	-34	-47	-47	-25	-62
Interconnection		-19	33	60	31	35	2	7	2	24	17	34	66	18	13	30	-9	17	41	-24	11	36	-14	-37	-38	-9	4	48	15	-8	-4	-8	28	-13	63	6	3	48	47	11	8	4	-9	-11	-4	-16	-18	4	-32
System Total		14652	14219	13848	13662	13451	13302	13010	12910	12850	12740	12649	12592	12840	13008	13002	13315	13602	14661	15223	15582	15837	16092	16275	16233	16091	15674	15567	15848	16029	16169	16235	16120	16182	16051	15934	15489	15144	14984	15262	15848	15924	15757	15590	15313	14882	14658	14507	14187
SRev ST-Coal		155	159	166	167	260	252	260	260	262	266	268	271	271	269	257	252	261	264	209	199	224	249	248	243	198	241	266	241	228	245	262	317	188	175	186	198	226	247	195	133	117	169	129	143	112	134	107	120
SRev CCGT-Gas		1416	1599	1890	2107	2117	2305	2626	2554	2624	2750	2815	2838	2643	2548	2506	2271	1953	941	798	434	438	317	309	380	404	574	873	689	595	438	394	377	373	376	507	751	845	1040	998	611	419	426	389	496	898	1184	1325	1587
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	
SRev ST-Oil		42	42	42	40	39	38	40	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
SRev 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
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 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		525	525	525	525	374	525	525	525	525	525	525	374	525	525	525	374	338	338	151	151	151	651	651	651	500	651	651	651	651	651	651	651	651	651	651	651	500	651	464	464	651	651	651	651	464	502	741	
Hydro		339	391	422	393	378	506	357	398	357	345	348	353	347	279	467	289	305	352	291	424	527	490	591	632	461	305	326	249	387	270	256	256	242	166	182	330	453	617	242	218	285	220	365	466	484	478	538	121
S.Reserve Total		2477	2716	3045	3232	3319	3475	3808	3777	3808	3886	3956	3987	3786	3621	3604	3337	3044	2082	1823	1431	1527	1394	1299	1406	1214	1771	2116	1830	1710	1604	1563	1601	1454	1368	1526	1930	2175	2404	2086	1426	1285	1466	1534	1756	2145	2260	2472	2569