

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,521 MW
Distillate	0 MW
Total TNB	2,521 MW
Total IPP	16,136 MW
Total Co-Gen	0 MW
Total System	21,488 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,910	6.42 %
Gas	34,687	10.17 %
Total TNB	56,597	16.59 %
ST-Coal	196,880	57.70 %
LSS	2,262	0.66 %
Gas	84,105	24.65 %
Total IPP	283,247	83.01 %
Co-Gen	154	0.05 %
Total Co-Gen	154	0.05 %
Total Generation	339,998	99.64 %
PLTG	-524	-0.15 %
HVDC	-700	-0.21 %
Interconnection	-1,224	-0.36 %
Net Energy	341,222	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	17,275 MW
TNB Generation	3,162 MW
IPP Generation	13,082 MW
Spinning Reserve	1,027 MW
Maximum Demand	16,304 MW
Net Energy	341,222 MWH
Load Factor	87.20 %

Fuel Cost

Total Cost:	49,189,451.00 RM
Cost per Unit	14.45 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	360
Hydro	421
Syncon	486
Thermal	172
Total	1,439

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	43
TJGS	205
Total TNB	248
CBPS	51
KLPP	79
NPRI	148
PGLA	108
PLPS	63
SKSP	0
YPKA	44
Total IPP	493
Total Gas	741
Total Gas Required	741

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	13135	12598	12178	11903	11736	11612	11793	12122	12647	14347	15133	15708	15641	15392	15912	16258	16304	15994	15141	15106	15805	15435	14807	14390

Daily MW Generation on Tuesday

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
Total 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
BSIA	HY01	21	21	21	20	0	0	0	0	0	0	0	12	20	20	20	11	0	0	0	0	0	0	0	
BSIA	HY02	23	23	23	23	23	24	24	23	23	23	12	12	11	23	23	23	12	12	12	12	12	12	12	
BSIA	HY03	24	23	24	23	0	0	0	0	0	0	0	12	23	23	23	12	0	0	0	0	0	0	0	
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	
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
HTRG	HY01	0	0	0	0	0	0	0	0	0	0	0	124	125	129	125	64	64	125	125	124	125	125	124	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	-1	-1	-1	64	65	125	125	124	124	125	124	
KNRG	HY01	34	34	34	34	34	0	0	0	0	0	0	21	35	34	35	34	22	0	0	0	0	0	0	
KNRG	HY02	35	35	35	35	35	36	36	36	36	36	36	24	25	24	35	35	24	0	0	0	0	0	0	
KNRG	HY03	34	34	34	34	34	35	35	35	35	35	35	23	23	22	34	34	34	23	24	24	23	24	24	
KNYR	HY01	67	0	0	0	0	0	0	0	0	0	0	98	98	97	59	99	99	101	99	100	100	100	99	
KNYR	HY02	61	69	65	85	65	60	60	75	62	61	59	57	56	59	59	58	58	97	60	100	100	101	100	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	98	60	100	100	102	100	-1	
KNYR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	59	97	60	100	100	101	100	
LPIA	HY01	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	23	23	23	
LPIA	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	19	
MNOR	HY01	2	2	2	2	2	0	0	0	0	0	0	0	0	0	6	6	6	6	3	3	6	6	6	
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	81	21	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	21	21	20	20	20	112	111	
PGAU	HY03	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	80	151	150	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	21	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	49	49	49	49	50	50	49	49	
SIHY	HY02	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	30	30	
SIHY	HY03	30	30	30	30	30	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	30	30	
SYPS	HY01	17	17	17	17	17	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	25	25	25	
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	
SYPS	HY03	16	16	16	16	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY02	87	89	88	76	54	44	42	61	47	44	43	40	43	45	43	45	60	55	88	42	88	62	74	
TMGR	HY03	80	32	32	31	32	0	0	0	0	0	0	0	83	85	83	58	30	30	0	0	0	0	0	
TMGR	HY04	86	-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	
UJLI	HY02	93	94	92	87	93	91	87	95	95	-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	
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	
Total Hydro		794	624	596	597	561	469	337	379	351	252	249	243	264	250	341	330	328	850	984	1055	884	1227	1315	
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	1	5	10	17	14	18	17	15	23	23	27	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	11	7	13	11	19	24	12	19	34	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	4	8	9	6	11	17	16	9	5	19	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	10	18	24	30	34	37	34	33	47	12	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	4	13	13	21	29	32	32	33	40	19	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	19	10	19	16	12	6	9	14	

Daily MW Generation on Tuesday

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																											
GMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	6	7	7	13	15	16	30	24	25	19	20	18	19	9	7	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	8	12	41	33	45	46	48	46	23	50	44	30	35	40	37	28	5	5	8	5	1	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	1	4	5	7	9	7	8	18	25	18	13	20	21	17	10	12	9	8	4	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	7	7	7	17	17	12	9	14	11	10	9	11	12	11	3	2	2	2	0	0	0	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	1	4	6	15	13	27	28	35	19	18	39	16	31	28	21	8	5	5	2	3	1	0	0	0	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	1	3	14	24	33	35	50	37	45	45	52	50	28	31	52	52	20	47	8	5	7	9	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	
SLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	10	10	12	10	12	20	18	20	19	22	19	13	33	11	3	4	3	4	1	0	0	0	0	0	0	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	4	6	11	12	13	17	21	18	21	10	25	20	10	4	4	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	2	17	63	118	188	224	274	295	334	341	349	300	371	323	321	265	219	209	108	65	71	48	22	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	3	5	2	3	3	4	5	4	4	3	3	4	4	3	4	2	2	4	4	2	3	4	1	3	4	4	3	3	3	2	2	2	3	4	5	5	4	4	4	4	3	3	4	4	4	3	3				
PCUF	CUFK	4	5	2	1	2	3	4	4	4	3	4	2	3	2	2	2	3	2	3	2	3	4	3	3	4	4	2	4	2	2	3	2	4	3	4	5	4	4	4	4	2	4	2	3	4	3	4	3			
Total Co-Gen		7	10	4	4	5	7	9	8	8	6	7	6	7	7	3	5	7	6	4	5	7	3	6	8	7	6	7	7	5	6	4	4	6	6	9	8	8	9	8	8	5	7	6	7	8	6	6	6			
Total Gen		13065	12601	12522	12237	12078	11971	11792	11693	11635	11546	11536	11554	11738	11928	12031	12232	12532	13646	14240	14748	15046	15371	15610	15816	15687	15494	15317	15629	15835	16080	16256	16180	16248	16268	16012	15481	15113	14815	15056	15735	15757	15612	15369	15135	14743	14581	14274	13916			
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	0	0	
TIE-HVDC		-30	-30	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-31	-28	-28	-30	-28	-28	-30	-28	-28	-30	-28	-28	-30	-30		
TIE-PLTG		-28	-65	-34	-25	-60	-56	-69	-83	-60	-50	-35	-16	-14	-27	-49	-79	-73	-59	-65	-54	-46	-30	-57	63	86	20	-35	-7	-36	-6	40	27	-15	12	60	27	12	-11	-10	29	-8	16	-26	-7	-24	-28	-76	-19	-19		
Interconnection		-58	-95	-64	-55	-88	-85	-99	-113	-89	-78	-64	-45	-43	-56	-79	-110	-103	-89	-95	-84	-75	-58	-86	34	57	-9	-64	-36	-65	-35	10	-3	-44	-17	30	-3	-17	-40	-39	-2	-36	-12	-54	-37	-52	-56	-104	-49			
System Total		13135	12708	12598	12304	12178	12068	11903	11818	11736	11636	11612	11611	11793	11996	12122	12354	12647	13747	14347	14844	15133	15441	15708	15793	15641	15514	15392	15677	15912	16127	16258	16195	16304	16297	15994	15495	15141	14866	15106	15749	15805	15636	15435	15184	14807	14649	14390	13977			
SRev ST-Coal		468	462	482	474	481	479	473	465	480	484	476	470	478	471	483	470	481	375	179	143	164	161	152	152	141	156	161	155	149	161	149	161	149	161	171	155	181	165	151	171	223	170	146	160	168	286	534				
SRev CCGT-Gas		798	639	631	924	1043	1060	1115	1262	1279	1294	1409	1476	1393	1293	1374	1195	929	369	235	414	212	401	431	235	282	297	361	467	314	341	318	238	238	230	340	387	460	666	581	333	327	403	571	579	735	903	902	1142			
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	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	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	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	0	0	0
Syncon		1055	991	1142	1142	1142	1142	1142	1329	1329	1329	1178	1329	1142	991	1142	727	766	615	615	489	576	512	663	890	890	663	663	512	361	361	274	87	174	487	638	789	814	476	476	476	476	476	476	663	663	663	663	663			
Hydro		274	408	285	284	320	278	215	173	201	113	116	122	252	115	211	373	224	391	218	348	519	477	407	540	395	390	358	373	353	386	314	347	358	594	584	648	612	500	318	386	349	456	438	466	430	417	433	440			
S.Reserve Total		2595	2500	2540	2824	2986	2959	2950	3047	3107	3225	3335	3402	3306	3220	3203	3047	2770	1973	1599	1561	1494	1536	1575	1439	1492	1718	1765	1664	1485	1388	1154	1095	1031	1060	1259	1693	1865	2136	1878	1346	1323	1558	1655	1667	1988	2151	2284	2779			