

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,467 MW
Distillate	0 MW
Total TNB	2,467 MW
Total IPP	17,642 MW
Total Co-Gen	0 MW
Total System	22,931 MW

Generation Mix

Type	MWh	Percentage
Hydro	8,409	2.66 %
Gas	23,161	7.33 %
Total TNB	31,570	9.99 %
ST-Coal	236,133	74.72 %
LSS	2,421	0.77 %
Gas	45,160	14.29 %
Total IPP	283,714	89.77 %
Co-Gen	1,537	0.49 %
Total Co-Gen	1,537	0.49 %
Total Generation	316,821	100.25 %
PLTG	54	0.02 %
HVDC	727	0.23 %
Interconnection	781	0.25 %
Net Energy	316,040	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	16,528 MW
TNB Generation	2,171 MW
IPP Generation	12,804 MW
Spinning Reserve	1,488 MW
Maximum Demand	15,007 MW
Net Energy	316,040 MWH
Load Factor	87.75 %

Fuel Cost

Total Cost:	49,711,775.76 RM
Cost per Unit	15.68 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	587
Hydro	242
Syncon	1,012
Thermal	546
Total	2,387

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	29
TJGS	139
Total TNB	168
CBPS	45
NPRI	128
PGLA	7
PLPS	35
SKSP	2
Total IPP	217
Total Gas	385

Total Gas Required 385

Alternate Fuel Usage

Station	(mmcsfd)
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	13952	13506	13184	12728	12332	12061	11991	11712	11085	11743	12506	12768	12881	12889	13285	13458	13663	13697	13295	13702	14957	15007	14834	14571

Daily MW Generation on Wednesday

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																										
JMAH	U001	694	692	692	693	694	693	693	694	693	694	692	694	694	690	599	532	551	625	653	652	653	670	696	687	691	693	689	693	693	691	691	688	689	689	690	694	692	695	691	693	691	687	696	692	693	694	691			
JMAH	U002	693	696	692	695	694	695	695	694	687	695	696	695	694	694	693	602	532	605	615	653	657	501	506	408	283	210	212	330	450	587	603	619	694	700	694	702	693	695	694	695	695	696	695	690	695	692	695	695		
JMHE	U001	911	909	775	781	780	784	778	780	779	781	781	779	781	781	777	779	776	783	778	781	781	850	848	851	849	849	846	849	851	851	848	851	851	849	848	852	850	849	933	936	940	941	942	941	942	941	939	938		
JMHE	U002	911	910	778	780	782	782	778	780	780	781	780	779	781	782	777	777	775	783	778	780	780	783	779	854	850	849	845	852	851	849	848	851	852	850	851	853	850	851	936	936	942	939	942	939	941	939	938	937		
JMJG	U001	673	671	670	671	663	672	670	669	673	670	672	668	649	626	631	594	594	585	607	604	629	677	678	669	666	670	669	671	667	672	664	672	669	670	671	672	671	672	669	676	669	671	672	673	673	671	674	673		
JMJG	U003	672	661	672	667	667	671	668	666	667	670	667	656	627	621	629	596	593	596	596	593	625	667	676	669	668	663	671	666	668	667	670	667	667	669	661	672	667	669	667	669	671	670	673	668	671	668	675	667		
JMJG	U004	913	836	783	782	783	782	780	782	782	783	785	783	785	783	782	785	783	783	783	780	855	853	855	854	854	852	854	854	854	854	856	854	854	853	855	856	854	933	932	943	940	943	942	940	940	942	939			
JMJG	U005	913	785	774	788	778	786	783	782	781	781	782	781	782	782	782	782	782	782	781	782	848	847	852	850	851	848	849	849	851	848	849	849	851	850	851	849	848	903	933	939	945	942	939	941	940	944	939			
PKLG	U003	286	281	283	286	285	286	281	284	283	262	149	150	151	149	151	151	151	151	149	151	190	271	282	285	283	282	284	281	284	282	280	280	280	281	280	282	281	279	281	279	281	280	279	280	282	285	283	282		
PKLG	U004	283	276	280	281	277	277	277	280	283	263	161	152	147	148	152	150	149	150	150	152	168	240	241	260	278	280	279	280	282	281	283	281	279	282	281	281	281	279	276	282	279	282	283	281	280	280	283	281		
PKLG	U005	468	467	466	467	469	466	403	407	366	296	268	269	269	268	267	268	267	269	269	269	300	387	386	432	469	468	468	468	465	467	468	467	466	468	468	467	464	464	465	467	468	469	468	469	468	468	468	467		
PKLG	U006	0	0	0	0	0	0	23	42	43	71	92	94	95	94	94	94	106	114	114	123	151	150	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	65	84	85	85	84	84	85	85	99
TBIN	U001	689	691	689	692	689	689	690	688	691	689	686	690	683	689	690	600	534	608	631	650	691	689	692	690	683	693	690	689	690	689	690	691	691	691	689	690	690	691	691	690	690	691	690	691	690	691	690	690		
TBIN	U002	690	692	690	696	693	692	689	692	693	691	697	692	691	695	689	600	532	604	633	652	691	689	690	695	693	688	691	690	691	691	689	691	692	690	692	683	692	691	692	690	692	693	691	691	691	691	691	689		
TBIN	U003	689	691	690	690	691	690	689	691	691	689	691	691	689	691	689	607	536	605	642	649	696	692	695	695	693	694	694	695	694	695	693	694	695	695	694	696	694	692	692	691	689	691	694	690	690	691	691			
TBIN	U004	912	839	782	783	782	782	781	782	783	783	783	782	781	782	782	781	782	782	781	783	782	852	852	853	853	853	853	852	854	854	853	853	855	852	853	853	851	854	901	934	942	943	938	945	941	943	943	942		
Total ST-Coal		10397	10097	9716	9752	9727	9747	9678	9713	9674	9600	9382	9354	9302	9280	9275	8765	8426	8751	8933	9057	9355	9804	9848	9764	9659	9595	9595	9715	9843	9983	9984	10011	10081	10093	10072	10108	10074	10081	10434	10568	10615	10625	10627	10618	10622	10620	10635	10620		
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total 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		
CBPS	BLK2	285	314	306	363	362	240	234	226	234	231	232	232	231	215	228	229	230	223	231	232	211	228	228	231	230	229	311	344	221	303	303	357	358	362	239	221	223	223	223	364	364	363	362	362	356	363	363	358		
GLGR	GT01	73	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
GLGR	GT02	74	99	98	100	99	98	99	99	98	99	98	99	98	99	98	97	96	98	101	97	96	96	97	97	97	97	96	97	97	96	97	96	97	96	96	107	104	105	105	105	104	105	95	95	95	95				
GLGR	ST1C	60	66	39	40	39	39	39	39	39	39	39	39	39	39	39	39	38	38	38	40	38	38	39	39	40	40	40	40	40	40	40	40	40	40	40	39	39	45	45	45	45	45	44	45	38	38				
NPRI	BLK1	417	511	508	498	459	425	464	403	409	326	442	417	369	461	305	323	398	386	448	490	501	319	367	394	367	433	322	359	343	332	383	436	439	480	441	373	328	326	340	517	519	508	499	486	462	518	526	492		
NPRI	BLK2	494	469	509	506	509	479	319	319	317	314	316	317	319	319	294	323	319	329	322	329	330	306	328	322	329	452	494	511	512	511	511	508	511	505	421	316	314	315	521	516	515	517	511	509	515	516	509			
PCGP	PGRG	574	605	604	604	601	596	498	402	398	393	400	402	403	403	355	385	383	399	387	400	402	361	399	587	602	599	585	602	602	602	599	602	596	605	588	605	599	594	597	610	603	603	602	594	590	602	601	584		
PGLA	GT11	153	165	211	168	156	155	155	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PGLA	ST10	89	91	104	90	91	91	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
PLPS	GT11	128	128	129	129	128	129	128	128	129	129	129	129	128	128	129	128	129	128	128	129	131	131	129	128	129	128	129	129	129	129	129	129	128	129	129	128	129	129	139	139	138	138	138	135	139	128	128			
PLPS	ST18	58	58	58	58	57	57	58	58	58	57	57	58	58	58	57	58	58	58	58	58	56	58	58	58	58	59	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	59	59	60	60	60	58	58		
SKSP	BLK1	217	77	56	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
TJGS	GT1B	173	180	217	174	173	175	175	174	176	175	172	193	166	187	165																																			

Daily MW Generation on Wednesday

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	
LPIA	HY01	10	10	9	9	9	9	8	8	8	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	
LPIA	HY02	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
MNOR	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	
PGAU	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	
PGAU	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	
PGAU	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
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	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	
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	-1	-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	30	34	34	34	34	33	34	33	33	33	34	34	33	32	34	33	33	33	33	33	33	33	33	33	
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	4	4	3	3	3	3	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	
Total Hydro		168	174	172	172	171	170	172	194	170	170	172	194	170	177	171	170	173	172	171	237	229	172	171	178	167
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
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	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	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	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	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	0	0	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	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	0	0	0	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	2	31	30	31	30	30	30	29	29	30	29	31	31	31	32	29	29	30	30	29	28	27	28	32	33
PCUF	CUFK	4	36	35	32	35	33	34	32	34	32	33	33	34	32	32	33	33	34	32	32	31	34	33	32	32
Total Co-Gen		6	67	65	63	65	63	64	62	63	62	64	65	64	66	61	61	63	63	63	60	61	62	64	65	62
Total Gen		13992	13755	13580	13451	13273	13063	12770	12487	12364	12193	12099	12071	11976	12045	11767	11355	11106	11494	11765	12085	12512	12654	12773	12920	12872
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
TIE-HVDC		30	30	31	31	31	31	29	29	31	31	30	30	30	30	31	31	30	30	30	30	30	30	30	30	30
TIE-PLTG		23	19	55	27	70	36	25	8	13	-4	20	2	-33	-18	37	-10	2	-42	4	-45	-13	33	-13	-35	
Interconnection		52	49	86	57	101	67	54	37	44	27	50	32	-3	12	67	20	33	-12	34	-15	18	64	17	-5	
System Total		13952	13718	13506	13406	13184	13008	12728	12462	12332	12178	12061	12051	11991	12045	11712	11347	11085	11518	11743	12112	12506	12602	12768	12937	
SRev ST-Coal		526	575	588	576	595	582	657	638	645	678	691	704	789	813	809	1124	1116	1111	1094	989	842	719	258	199	
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
SRev CCGT-Gas		903	742	267	430	524	751	978	1187	1017	1114	989	991	1058	944	1223	1122	1051	1038	1005	877	869	1209	1074	863	
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
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
SRev Co-Gen		57	3	5	7	5	7	6	8	7	7	8	8	6	5	6	4	9	9	7	7	7	10	9	8	
Syncon		1226	1226	1226	1226	1226	1075	1226	1075	1226	1226	1226	1226	1075	1226	1100	1100	1100	1100	949	1100	1100	1100	1075	1226	
Hydro		171	165	167	167	168	169	167	296	169	169	169	167	296	169	313	168	169	166	167	168	228	176	168	169	

Daily MW Generation on Wednesday

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																								
S.Reserve Total		2883	2711	2253	2406	2518	2735	3034	3204	3064	3194	3083	3096	3224	3157	3426	3644	3571	3550	3499	3267	3046	3214	2609	2339	2339	2132	2221	2065	2434	2731	2602	2525	2444	2308	2397	2688	2804	2799	2737	1853	1562	1496	1492	1544	1670	1596	1710	1958