

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,317 MW
Distillate	0 MW
Total TNB	2,317 MW
Total IPP	15,901 MW
Total Co-Gen	0 MW
Total System	20,731 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,337	4.38 %
Gas	31,858	9.11 %
Total TNB	47,195	13.49 %
ST-Coal	220,876	63.13 %
LSS	1,919	0.55 %
Gas	77,935	22.28 %
Total IPP	300,730	85.96 %
Co-Gen	528	0.15 %
Total Co-Gen	528	0.15 %
Total Generation	348,453	99.60 %
PLTG	-713	-0.20 %
HVDC	-695	-0.20 %
Interconnection	-1,408	-0.40 %
Net Energy	349,861	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:	16:00:00 Hour
Total Set On Bus	18,306 MW
TNB Generation	2,463 MW
IPP Generation	13,896 MW
Spinning Reserve	1,926 MW
Maximum Demand	16,460 MW
Net Energy	349,861 MWH
Load Factor	88.56 %

Fuel Cost

Total Cost:	55,794,343.61 RM
Cost per Unit	16.00 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	529
Hydro	243
Syncon	1,083
Thermal	266
Total	2,121

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
PGPS	12
TJGS	183
Total TNB	224
CBPS	48
KLPP	28
NPRI	147
PGLA	79
PLPS	79
SKSP	27
YPKA	44
Total IPP	453
Total Gas	677
Total Gas Required	677

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	13895	13317	12751	12344	12036	11928	11990	12317	12865	14735	15570	16144	16186	15985	16297	16375	16460	16208	15307	15248	15984	15733	15215	14855

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																								
JMAH	U001	694	692	691	692	692	689	600	601	603	601	652	670	693	693	694	694	691	695	693	693	692	692	692	691	694	691	691	693	694	692																		
JMAH	U002	694	695	695	690	696	692	692	693	601	604	604	604	603	654	671	694	694	689	693	688	691	693	696	694	696	694	694	693	695	691	695	695	695	692	694	692	694	695										
JMHE	U001	928	910	782	777	782	780	654	701	781	762	782	781	782	780	779	777	780	781	899	975	762	702	699	701	698	700	701	699	771	846	853	853	850	852	849	847	851	848	854	952	951	949	948	948	948	949	948	951
JMHE	U002	749	750	755	746	752	746	751	749	753	751	748	751	750	751	750	750	749	749	752	745	1000	1003	1000	1002	996	1000	931	795	795	800	802	804	800	802	801	798	801	799	803	801	804	799	799	799	799	800	797	802
JMIG	U001	0	0	0	0	0	0	0	142	231	316	407	424	449	499	497	550	587	596	600	597	587	590	585	564	497	496	497	498	494	500	495	495	495	449	442	497	573	628	678	674	675	675	676	677	678	677	678	676
JMIG	U004	934	935	935	882	799	785	785	786	789	790	791	788	789	789	790	791	791	786	953	973	973	976	977	975	977	976	973	976	978	976	978	977	977	974	976	977	976	975	976	923	896	895	895	897	896	947	947	947
JMIG	U005	933	930	931	928	812	777	780	780	779	781	778	781	781	779	780	780	780	778	911	947	972	981	980	979	979	980	981	978	979	976	980	983	980	979	979	977	977	977	980	978	979	983	980	979	977	979	980	982
PKLG	U003	282	283	287	282	281	280	283	280	225	146	150	151	152	151	152	153	192	293	283	281	282	280	282	282	278	280	281	285	284	284	282	281	283	281	280	278	282	282	284	280	280	285	282	284	281	279	285	
PKLG	U004	280	281	282	282	280	279	279	276	205	155	148	151	149	150	149	149	187	255	263	283	280	272	263	260	255	249	265	265	268	268	266	276	282	280	282	279	280	281	281	276	277	280	280	282	283	280	281	281
PKLG	U005	468	466	466	467	467	468	465	466	420	328	268	269	268	269	268	267	308	394	462	466	468	467	466	466	467	466	465	468	466	466	468	469	467	468	466	467	466	467	465	468	468	466	467	468	467	464	466	466
TBIN	U001	689	689	690	690	688	690	690	691	691	692	693	692	690	691	691	689	691	691	693	692	688	690	690	691	692	691	690	686	690	691	691	688	687	691	692	690	691	687	690	690	682	689	690	691	690	692	692	690
TBIN	U002	689	690	694	689	687	693	691	693	693	691	690	691	692	691	692	691	691	696	695	689	692	692	693	690	692	693	691	693	689	691	692	692	692	693	690	692	693	690	695	692	691	694	690	691	691	691	693	690
TBIN	U003	689	691	691	690	691	689	690	689	691	690	691	690	691	692	690	689	691	691	689	691	687	689	692	691	691	692	690	689	694	691	691	692	690	690	690	692	687	687	698	692	690	688	691	688	691	689	691	692
TBIN	U004	932	933	901	813	782	781	782	781	784	784	783	782	783	783	782	783	783	781	819	905	984	983	982	981	984	983	982	983	982	984	982	982	983	983	983	982	983	982	983	983	982	984	982	982	982	982	982	983
Total ST-Coal		8961	8945	8800	8628	8409	8353	8234	8416	8243	8091	8135	8157	8179	8330	8363	8457	8615	8874	9408	9621	9765	9709	9695	9669	9594	9591	9535	9405	9477	9562	9568	9574	9575	9525	9517	9565	9646	9688	9776	9792	9763	9767	9772	9769	9771	9816	9822	9832
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	358	352	357	351	220	222	223	220	219	222	221	226	222	218	225	223	224	359	360	346	360	360	360	360	359	361	360	361	361	359	359	362	365	363	363	354	362	208	322	358	355	355	356	354	357	358	356	359
GLGR	GT02	107	107	95	94	94	94	94	94	94	94	94	94	94	94	96	94	94	96	106	106	105	106	106	106	105	98	98	102	105	105	105	105	105	105	95	94	94	94	94	94	94	95	95	95	95	95	96	
GLGR	ST1C	46	46	38	37	37	37	37	36	36	36	36	36	36	37	36	36	37	43	45	45	45	45	45	45	41	41	42	43	45	45	45	45	45	38	38	38	38	37	38	37	38	39	38	38	38	38		
KLPP	GT15	121	117	121	117	121	120	119	120	119	120	119	119	119	119	120	123	128	128	127	128	128	128	127	127	127	131	131	127	127	127	127	127	128	128	128	127	123	119	22	0	0	0	0	0	0	0	0	
KLPP	ST17	51	51	51	51	51	50	50	51	51	52	52	49	47	43	55	55	59	59	59	57	57	59	59	59	59	59	61	59	59	60	60	59	58	59	57	54	58	0	0	0	0	0	0	0	0	0	0	
NPRI	BLK1	512	499	508	498	513	491	486	395	393	520	420	380	418	479	527	529	515	517	512	494	441	516	515	517	509	516	521	523	514	511	512	515	516	515	515	506	442	427	500	504	502	506	506	502	501	497	481	424
NPRI	BLK2	512	500	509	500	518	509	445	347	317	319	314	318	314	314	319	320	322	518	514	522	442	518	518	517	512	518	522	525	515	511	514	517	516	517	515	509	512	495	501	505	503	506	508	503	502	500	502	510
PCGP	PGRG	591	570	585	568	598	583	495	398	402	402	392	397	391	393	400	406	608	603	592	559	592	603	603	604	587	603	609	617	594	592	594	602	601	603	600	584	591	559	577	584	587	594	589	583	585	578	584	599
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	138	138	219	186	212	211	181	167	180	214	184	168	165	163	178	185	167	164	166	162	161	188	163	174	167	163	167	163	165	81	
PGLA	GT12	168	165	168	164	170	167	170	173	170	172	168	171	170	175	186	184	204	186	187	187	243	208	234	234	202	191	201	235	205	189	187	185	199	208	190	184	188	183	184	210	186	195	187	184	188	184	185	189
PGLA	ST10	93	91	91	91	91	91	89	89	89	89	90	90	90	93	95	90	95	94	89	139	234	217	236	233	229	209	214	238	227	206	207	213	218	227	206	206	204	203	215	207	207	205	207	205	205	205	93	
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	80	69	69	70	69	79	80	79	93	94	94	71	71	71	71	94	90	95	12	0	0	0	0	0	0	0	0	0		
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	72	72	73	72	95	95	91	70	70	0	0	0	0	0	0	0		
PGPS	ST3C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	40	42	42	29	29	27	66	91	89	90	28	17	0	0	0	0	0
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	125	141	138	136	140	139	139	139	138	139	140								

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	HY02	22	22	22	22	11	11	11	11	11	11	11	12	12	12	12	11	11	12	12	12	12	22	22	22	22	
CEND	HY01	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
HTRG	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	
HTRG	HY02	63	-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	HY02	36	37	36	36	36	36	36	37	37	36	37	36	37	36	36	36	37	36	36	36	36	36	36	36	36	
KNYR	HY01	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	
KNYR	HY02	103	104	104	104	104	104	104	104	104	104	104	104	104	103	104	104	103	104	104	104	104	104	104	104	104	
KNYR	HY03	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
KNYR	HY04	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
LPIA	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	8	
LPIA	HY02	16	16	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
MNOR	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	6	6	6	6	6	6	6	6	6	6	
PGAU	HY01	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	19	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	21	21	21	-1	
PGAU	HY03	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16	-1	20	21	-1	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	-1	-1	-1	-1	0	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	51	31	0	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30	50	
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	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	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	31	54	-1	-1	
TMGR	HY02	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	32	32	33	33	-1	
TMGR	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	
TMGR	HY04	31	30	32	30	34	33	34	34	34	34	34	34	34	34	34	28	36	34	34	34	33	34	34	34	0	
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	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	
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		654	557	559	556	580	568	569	549	550	549	549	550	549	535	537	537	536	536	535	659	623	632	609	632	607	630
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	2	5	8	12	16	18	21	12	20	9	5	6	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	14	19	26	32	39	34	22	16	2	8	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	12	12	23	26	26	34	34	44	44	13	13	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	12	18	28	37	32	40	42	35	22	9	13	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	11	18	24	30	32	33	42	36	24	8	5	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	12	14	23	34	35	30	19	8	7	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0													

Daily MW Generation on Thursday

[illegible]