

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,367 MW
Distillate	0 MW
Total TNB	2,367 MW
Total IPP	15,973 MW
Total Co-Gen	65 MW
Total System	20,345 MW

Generation Mix

Type	MWh	Percentage
Hydro	15,701	4.42 %
Gas	30,950	8.71 %
Total TNB	46,651	13.13 %
ST-Coal	216,042	60.81 %
ST-Gas	4,108	1.16 %
LSS	2,300	0.65 %
Gas	84,083	23.67 %
Total IPP	306,533	86.28 %
Co-Gen	1,113	0.31 %
Total Co-Gen	1,113	0.31 %
Total Generation	354,297	99.72 %
PLTG	-316	-0.09 %
HVDC	-666	-0.19 %
Interconnection	-982	-0.28 %
Net Energy	355,279	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	18,382 MW
TNB Generation	2,440 MW
IPP Generation	14,414 MW
Spinning Reserve	1,482 MW
Maximum Demand	16,962 MW
Net Energy	355,279 MWH
Load Factor	87.27 %

Fuel Cost

Total Cost:	65,936,973.15 RM
Cost per Unit	18.61 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	404
Hydro	375
Syncon	826
Thermal	148
Total	1,753

Time	Weather	Temperature
Afternoon	Rainy	34
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	8
PAKA	30
PGPS	36
SRDG	1
TJGS	158
Total TNB	233
CBPS	52
KLPP	95
MPSS	44
PGLA	91
PKLG	5
PLPS	87
PTEK	2
SGB3	77
SKSP	50
YPKA	72
PKLG	42
Total IPP	615
Total Gas	848
Total Gas Required	848

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	13855	13195	13067	12463	12087	12131	12426	12598	13103	14878	15791	16356	16413	16105	16605	16889	16962	16486	15565	15873	16131	15870	15253	14759

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	692	692	691	692	691	693	692	692	689	692	691	692	688	691	690	692	691	692	692	693	693	691	692	692	693
JMAH	U002	696	691	693	693	689	694	695	693	691	696	694	694	693	694	693	695	694	692	693	694	694	695	695	694	693
JMHE	U001	980	982	824	780	781	780	776	779	781	780	779	779	781	780	774	971	986	979	980	980	980	978	982	977	981
JMJG	U001	578	577	576	574	576	577	576	573	577	585	577	576	579	576	577	578	586	589	584	586	590	588	587	590	585
JMJG	U003	668	678	666	671	670	668	669	670	671	668	671	670	668	676	672	666	667	668	671	670	671	667	671	667	667
JMJG	U004	956	958	914	829	782	782	780	785	783	782	783	783	785	785	783	786	785	849	957	958	955	958	956	954	956
JMJG	U005	977	975	917	780	777	781	780	782	780	782	781	782	781	782	779	783	781	829	943	976	979	979	979	980	981
PKLG	U003	283	257	253	254	260	256	256	256	255	254	252	251	261	284	287	282	283	284	280	287	281	284	281	286	284
PKLG	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PKLG	U005	470	468	470	470	471	470	470	468	469	468	470	469	466	477	469	470	471	470	467	468	468	470	470	470	471
TBIN	U001	688	689	690	690	690	692	690	689	689	691	691	689	690	691	689	689	690	691	689	689	688	689	691	688	689
TBIN	U002	689	694	691	689	690	689	692	691	692	692	693	691	694	692	691	689	689	690	691	687	684	690	692	695	689
TBIN	U003	690	692	689	692	695	690	692	692	691	691	691	691	691	689	689	687	691	692	690	690	690	690	690	690	690
TBIN	U004	984	984	984	984	984	783	782	782	782	782	783	783	781	782	783	781	832	920	982	981	981	985	983	983	981
Total ST-Coal		9351	9337	9058	8798	8756	8555	8550	8552	8550	8563	8556	8549	8563	8601	8579	8581	8581	8946	9259	9363	9357	9362	9362	9372	9367
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
PKLG	U002	146	147	147	143	143	143	143	143	143	143	143	143	144	144	144	144	144	144	145	145	145	145	146	146	146
Total ST-Gas		146	147	147	143	143	143	143	143	143	143	143	143	144	144	144	144	144	144	145	145	145	145	146	146	146
CBPS	BLK2	346	346	360	362	362	357	220	215	207	217	222	223	221	291	355	355	348	355	360	361	361	362	360	360	353
KLPP	GT13	108	64	68	70	69	69	70	64	63	69	69	70	70	69	70	67	102	127	133	133	138	138	138	139	137
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	98	153	153	154	155	156	156	154	154	155
KLPP	GT15	133	79	81	82	82	82	80	79	80	81	82	83	80	82	81	81	140	152	152	151	150	151	151	150	154
KLPP	ST17	127	84	86	89	90	90	87	84	84	84	87	89	85	89	86	84	97	187	202	202	205	205	205	204	204
MPSS	GT01	85	86	88	87	87	85	86	84	85	86	87	88	88	88	86	85	84	85	89	90	89	103	103	104	67
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	103	102	103	102	69	73	
MPSS	ST01	35	34	36	35	35	34	35	34	33	34	35	35	35	36	34	33	34	35	34	35	39	111	110	110	
PAKA	GT4A	93	93	94	94	94	94	94	94	94	94	94	94	94	94	94	93	93	93	92	92	91	91	91	88	88
PAKA	ST4C	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
PCGP	PGRG	370	358	387	401	401	391	395	358	284	284	285	285	401	403	397	381	367	382	396	409	399	395	386	401	387
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	129	140	230	232	214	212	212	213	211	
PGLA	GT12	212	215	161	164	164	162	163	159	156	163	163	164	165	165	167	163	168	182	242	246	225	225	223	226	224
PGLA	ST10	99	105	90	90	90	90	90	89	89	90	90	90	90	90	88	85	135	250	252	240	238	239	240	237	
PGPS	GT3A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	79	87	88	87	66	
PGPS	GT3B	72	71	72	71	71	71	70	71	70	71	71	71	71	70	71	70	74	73	89	87	87	87	87	87	87
PGPS	ST3C	32	32	32	31	31	31	31	31	31	30	30	31	31	31	30	30	31	31	31	36	49	87	87	86	64
PLPS	GT11	116	61	66	70	69	67	69	63	61	64	68	69	69	68	68	63	130	136	115	131	141	113	118	119	111
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	120	134	145	117	123	123	115	
PLPS	GT13	114	61	64	67	66	66	67	62	59	63	66	67	68	67	66	64	120	132	111	127	135	111	115	115	110
PLPS	ST18	140	96	94	94	94	94	94	92	90	91	94	93	94	95	92	89	129	143	204	203	211	201	209	205	198
SGB3	GT31	108	107	113	111	113	111	113	110	106	110	113	113	113	114	110	109	112	114	127	128	128	125	118	136	108
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	122	114	142	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	66	142	140	140	119	111	140	112
SGB3	ST34	64	64	65	65	66	66	66	66	64	64	65	65	66	66	66	66	66	67	67	68	146	150	150	204	
SKSP	BLK1	218	218	275	323	306	216	218	219	218	216	219	217	232	220	219	220	266	217	222	232	327	327	326	326	326
TJGS	GT1A	212	210	229	229	214	178	163	137	123	154	199	199	151	218	142	140	173	182	210	222	222	223	223	222	221
TJGS	GT1B	208	204	221	219	205	169	155	133	117	148	194	196	141	219	137	137	172	174	205	219	217	218	216	219	214
TJGS	ST1C	236	229	239	242	246	214	199	180	177	205	197	222	194	245	182	179	219	224	209	241	244	244	244	244	247

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																									
TJGS	GT2B	222	222	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145																									
TJGS	ST2C	121	121	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93																									
YPKA	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																									
YPKA	GT12	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65																									
YPKA	ST10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30																									
YPKA	GT21	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65																									
YPKA	ST20	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36																									
Total CCGT-Gas		3709	3398	3397	3472	3431	3212	3041	2901	2767	2896	3003	3040	3019	3381	3219	3198	3770	4325	4805	5006	5365	5564	5668	5821	5730	5734	5550	5760	5927	5925	5921	5838	5939	5878	5757	5641	5360	5117	5642	5942	5713	5880	5797	5759	5634	5474	5217	5015	
GLGR	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	GT08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PKLG	GT09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PTEK	GT2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRDG	GT04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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 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	
BSIA	HY01	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
CEND	HY02	9	10	9	10	10	10	9	9	10	10	9	9	10	10	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	9	9	9	9	9	9	9			
CEND	HY03	10	10	10	9	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	10	9	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	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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
HTRG	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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
KNRG	HY02	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38		
KNYR	HY02	95	93	96	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95		
KNYR	HY03	95	92	52	95	95	95	95	95	59	0	0	0	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	
KNYR	HY04	96	93	56	98	98	98	98	98	80	57	58	99	99	98	98	96	98	98	53	99	98	98	98	97	98	48	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
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	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	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	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	2	2	2	2	2	2	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
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	-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	22	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
PGAU	HY04	4	5	4	5	5	5	5	5	4	4	5	5	4	5	5	4	5	5	4	5	5	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
SIHY	HY01	0	0	0	0	0	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
SIHY	HY02	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
SYPS	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
SYPS	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
SYPS	HY03	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
SYPS	HY04	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
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	-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	-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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
TMGR	HY03	0	0	0																																														

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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