

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,294 MW
Distillate	0 MW
Total TNB	2,294 MW
Total IPP	15,547 MW
Total Co-Gen	0 MW
Total System	19,950 MW

Generation Mix

Type	MWh	Percentage
Hydro	21,287	5.82 %
Gas	28,300	7.73 %
Total TNB	49,587	13.55 %
ST-Coal	195,835	53.52 %
LSS	2,407	0.66 %
Gas	116,760	31.91 %
Total IPP	315,002	86.09 %
Co-Gen	1,149	0.31 %
Total Co-Gen	1,149	0.31 %
Total Generation	365,738	99.96 %
PLTG	-194	-0.05 %
HVDC	43	0.01 %
Interconnection	-151	-0.04 %
Net Energy	365,889	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	18,633 MW
TNB Generation	2,753 MW
IPP Generation	14,445 MW
Spinning Reserve	1,387 MW
Maximum Demand	17,487 MW
Net Energy	365,889 MWH
Load Factor	87.18 %

Fuel Cost

Total Cost:	69,469,029.42 RM
Cost per Unit	18.90 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	476
Hydro	591
Syncon	431
Thermal	140
Total	1,638

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	48
PAKA	18
PGPS	40
SRDG	3
TJGS	106
Total TNB	215
CBPS	53
KLPP	94
MPSS	47
NPRI	80
PGLA	113
PLPS	90
PTEK	7
SGB3	87
SGRI	134
YPKA	63
Total IPP	768
Total Gas	983

Total Gas Required 983

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	14574	13758	13290	12899	12707	12570	12903	13036	13361	15346	16116	16836	16787	16630	17030	17460	17487	16928	15906	16153	16414	16247	15773	15297

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, December 05, 2019 8:41:51 AM

 (Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

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	691	694	693	689	693	694	691	693	693	690	694	694	690	692	692	691	693	693	688	693	695	692	693	691	693	693	691	694	689	695	700	693	691	694	692	692												
JMHE	U001	319	317	319	318	321	318	318	317	320	318	320	320	320	321	319	320	321	320	320	320	320	318	319	319	316	320	319	319	321	320	317	320	319	320	320													
JMJG	U001	668	665	666	668	669	668	666	668	666	667	665	666	668	668	671	660	672	663	662	666	668	662	668	664	667	667	665	662	666	662	666	667	671	671	670	667	668	668										
JMJG	U003	662	666	662	666	662	671	665	664	667	660	664	664	662	663	662	668	663	664	667	658	669	657	664	666	664	662	665	663	662	660	663	665	662	656	661	662	662	662	659	663	663	667	662	660	661	662	662	
JMJG	U004	963	895	807	781	782	782	782	780	781	782	785	785	783	785	785	815	957	957	960	958	956	955	957	955	959	961	957	957	958	958	957	957	961	955	956	953	957	957	960	958	960	959	958	959	958	959		
JMJG	U005	961	856	777	779	782	778	782	778	779	780	780	780	782	782	780	777	783	800	934	971	979	976	976	973	975	972	973	975	949	971	972	975	975	970	971	975	975	972	977	972	977	975	972	978	972	974	983	976
PKLG	U003	283	281	282	281	281	280	277	279	280	281	280	282	281	283	283	282	281	280	280	281	283	283	281	281	281	279	281	280	282	280	282	281	281	282	280	279	281	280	279	280	279	282	280	283	284	284	284	286
PKLG	U004	280	280	283	282	279	279	278	277	279	281	281	281	282	281	280	278	279	279	280	277	282	281	280	281	278	280	281	279	280	283	280	286	282	283	279	282	280	281	278	280	281	283	283	282	282	282		
PKLG	U005	466	467	468	470	468	464	467	466	464	466	467	470	468	470	468	466	466	467	466	470	468	468	465	470	467	468	467	466	464	466	468	470	466	463	464	462	460	462	463	464	466	462	463	462	462	462	464	
TBIN	U001	690	689	687	685	690	689	687	690	689	690	690	691	691	689	690	689	689	690	689	689	689	690	689	690	691	689	689	691	690	690	689	689	687	689	690	690	692	687	690	687	690	689	691	688	691	689		
TBIN	U002	690	688	690	695	693	693	692	694	693	690	697	689	692	692	691	690	693	694	693	690	691	694	694	695	690	692	693	692	692	690	694	690	693	692	693	693	691	687	690	694	690	693	693	692	693	692	691	
TBIN	U003	692	691	686	691	690	692	693	689	692	694	692	691	690	692	689	691	690	693	688	693	688	687	694	692	690	691	691	689	692	690	688	691	692	690	689	692	691	693	693	691	689	693	692	689	691	693	690	690
TBIN	U004	982	919	830	782	782	783	781	782	783	781	783	782	781	782	783	783	802	890	980	984	982	983	982	983	983	983	983	982	983	983	982	983	981	982	983	982	983	982	983	983	983	982	983	981	983	982	982	983
Total ST-Coal		8347	8108	7850	7787	7792	7791	7779	7777	7788	7779	7798	7795	7788	7796	7793	7796	7783	7869	8211	8349	8359	8368	8357	8354	8358	8352	8352	8360	8324	8347	8348	8357	8365	8351	8346	8340	8348	8339	8350	8342	8359	8360	8368	8359	8350	8361	8366	8362
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	
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	
CBPS	BLK2	357	364	361	357	361	364	362	362	362	300	222	222	222	362	362	362	362	369	362	362	357	362	361	361	362	355	358	358	359	355	355	355	362	357	361	361	359	356	356	358	358	358	359	359	355	358	362	362
GLGR	GT01	68	68	67	67	70	67	68	67	68	68	69	67	69	68	68	68	67	69	67	67	67	68	81	97	65	66	65	67	66	66	101	100	99	98	98	99	67	89	104	104	104	103	104	104	67	68	67	
GLGR	GT02	69	68	68	68	68	68	68	68	69	69	68	69	69	68	68	69	69	68	70	68	68	68	84	97	67	67	68	67	67	102	100	100	100	100	100	67	90	104	105	105	104	105	103	67	68	68		
GLGR	ST1C	70	71	71	70	70	70	70	70	70	71	70	71	71	71	70	70	70	70	70	70	74	71	76	91	72	72	71	71	89	91	91	91	91	91	91	91	91	91	91	93	93	93	93	93	93	74	70	70
KLPP	GT13	130	127	125	127	64	65	65	64	64	64	64	109	110	108	112	117	132	132	130	130	134	133	116	114	117	131	123	131	121	131	130	114	132	122	128	132	128	132	129	132	129	117	125	116	130	132	125	
KLPP	GT14	132	136	132	132	75	74	74	73	74	74	74	73	79	113	112	110	112	118	157	155	139	149	146	143	125	125	125	154	155	149	134	141	141	140	128	148	133	138	145	140	141	140	132	136	129	141	143	136
KLPP	GT15	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	148	148	140	149	145	142	127	127	127	151	151	151	135	143	143	142	129	147	132	139	144	140	142	142	134	136	131	144	144	136		
KLPP	ST17	193	129	128	128	88	84	84	84	82	82	83	83	84	116	113	121	120	183	204	204	200	203	200	200	192	192	189	200	202	200	196	195	200	195	191	203	197	195	203	195	195	199	199	199	194	202	202	198
MPSS	GT01	105	91	87	87	89	88	88	88	89	89	89	89	89	89	88	92	107	107	105	105	104	104	103	103	104	103	103	103	103	103	103	103	104	109	78	71	91	102	100	102	101	100	101	67	101	89		
MPSS	GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
MPSS	ST01	47	39	37	37	36	36	36	36	36	36	36	36	36	36	35	41	109	113	113	113	112	112	112	112	112	112	112	112	111	111	111	111	112	113	85	66	78	104	104	104	104	104	68	39	36			
NPRI	BLK1	511	516	512	515	513	512	512	511	515	515	515	515	518	515	514	515	514	526	515	515	512	514	515	515	511	508	511	511	512	511	506	507	514	514	506	512	505	512	511	515	512	513	509	513	504	512	515	509
NPRI	BLK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PAKA	GT4B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PAKA	ST4C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PCGP	PGRG	599	604	597	602	604	601	596	591	604	600	601	602	610	604	605	604	601	625	601	604	598	599	601	604	596	588	594	599	601	596	589	591	600	603	584	595	589	601	592	601	596	600	592	594	585	597	602	593
PGLA	GT11	204	218	206	211	220	213	190	169	170	176	174	170	207	171	172	170	224	228	224	225	223	223	223	222																								

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				
TMGR	HY04	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	60	60	60	60	60	60	60	30	30	30	30	30	30	30	30	30	30	30	30	30	30			
UJLI	HY01	93	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	94	91	93	95	129	177	91	92	97	97	90	-1	-1	-1	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	HY02	-1	94	90	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	96	92	95	97	99	94	92	94	99	100	-1	-1	-1	-1	-1	95	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UPIA	HY01	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	5	5	5	5	5	5	5		
UPIA	HY02	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	5	5	5	5	5	5	5		
Total Hydro		929	862	858	767	767	705	641	641	641	641	641	536	537	537	537	533	722	722	761	761	814	1036	1195	1106	1095	1100	1109	1206	1326	1291	1253	1279	1280	1111	948	887	887	1041	1155	1059	1044	987	987	819	753	757	566			
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	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	5	10	14	13	17	24	26	24	27	27	27	28	28	22	19	12	17	2	1	1	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	2	8	15	21	28	32	36	42	45	28	47	46	47	44	39	43	35	28	33	28	10	5	2	1	1	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	2	2	2	21	32	32	22	11	33	43	22	43	33	43	32	11	10	21	11	11	5	5	5	5	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	7	15	23	30	36	40	44	47	49	50	32	17	46	16	7	17	5	4	1	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	3	9	15	22	29	35	39	40	41	37	35	13	20	30	33	35	37	28	13	12	4	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	0	1	6	11	19	26	31	34	37	41	43	44	39	49	43	41	40	20	36	3	2	1	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	1	6	6	6	4	12	32	17	33	42	16	22	47	14	50	36	42	18	8	23	2	1	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	3	9	18	27	32	43	23	48	40	56	58	58	51	57	48	39	19	19	27	13	23	8	2	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	0	1	3	6	8	15	22	32	29	39	26	42	41	43	41	41	36	32	28	22	16	2	1	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	12	52	93	138	199	256	285	303	323	338	362	296	377	322	340	329	231	186	161	112	59	24	9	6	6	0	0	0	0	0	0	0	0	0	0	
PCUF	CUFG	21	21	22	21	22	21	21	21	22	21	22	21	22	22	21	22	22	21	20	20	22	21	20	21	22	21	22	22	22	21	21	22	24	28	28	28	26	28	46	45	33	23	23	25	24	25				
PCUF	CUFK	24	25	23	24	26	24	25	25	27	25	23	24	25	25	25	23	25	24	24	25	26	24	25	26	24	24	24	25	25	25	25	26	24	23	24	23	23	23	25	24	23	23	25	24	25	25				
Total Co-Gen		45	46	45	45	48	45	46	46	49	46	45	45	47	47	44	47	46	45	45	46	47	45	45	47	46	45	46	47	47	46	47	48	45	44	46	47	51	51	51	51	52	69	68	58	47	48	50			
Total Gen		14651	14168	13814	13626	13304	13199	12963	12822	12717	12649	12593	12602	12884	13143	13085	12973	13405	14524	15385	15958	16130	16580	16827	16970	16814	16642	16625	16878	17008	17135	17220	17214	17246	17194	16737	16501	15971	15642	16196	16490	16464	16452	16291	16187	15785	15502	15275	14864		
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		
TIE-HVDC		31	31	30	30	29	29	30	30	30	30	29	29	30	30	30	31	31	30	30	30	31	31	29	29	30	30	30	-197	-197	-196	-197	-195	-195	30	30	30	30	31	31	31	31	31	31	31	31	31	29	29		
TIE-PLTG		46	7	26	4	-15	14	34	38	-20	-5	-6	-1	-49	31	18	96	13	-20	9	-62	-16	-20	-39	-27	-2	-18	-36	12	-53	-69	-42	-14	-44	-35	4	6	35	-48	13	-25	19	-13	13	-5	-19	-40	-53	-30		
Interconnection		77	38	56	33	14	43	64	68	10	26	23	28	-19	61	49	127	44	11	39	-33	14	10	-9	3	27	11	-5	42	-22	-266	-240	-211	-241	-230	-191	36	65	-18	43	5	50	18	44	26	12	-10	-22	0		
System Total		14574	14130	13758	13593	13290	13156	12899	12754	12707	12623	12570	12574	12903	13082	13036	12846	13361	14513	15346	15991	16116	16570	16836	16967	16787	16631	16630	16836	17030	17401	17460	17425	17487	17424	16928	16465	15906	15660	16153	16485	16414	16434	16247	16161	15773	15512	15297	14864		
SRev ST-Coal		96	337	391	380	375	378	390	390	380	389	374	378	387	379	378	374	392	371	232	114	114	125	136	139	135	141	141	133	169	146	145	136	128	142	147	153	145	154	143	151	134	133	125	134	143	132	127	131		
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	
SRev CCGT-Gas		945	894	985	1019	1349	1238	1399	1538	1657	1713	1787	1747	1461	1210	1265	1389	1076	854	802	758	654	340	320	353	441	619	574	420	297	331	433	385	341	390	510	436	741	1087	655	467	408	407	536	411	646	747	609	734		
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	
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0																																				