

Daily System Generation Summary on Monday

Monday, March 11, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,292 MW
Distillate	0 MW
Total TNB	2,292 MW
Total IPP	15,570 MW
Total Co-Gen	0 MW
Total System	20,941 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,277	3.07 %
Gas	36,116	9.82 %
Total TNB	47,393	12.88 %
ST-Coal	205,630	55.90 %
LSS	1,509	0.41 %
Gas	111,849	30.41 %
Total IPP	318,988	86.72 %
Co-Gen	1,881	0.51 %
Total Co-Gen	1,881	0.51 %
Total Generation	368,262	100.12 %
PLTG	-199	-0.05 %
HVDC	636	0.17 %
Interconnection	437	0.12 %
Net Energy	367,825	100.00 %

Maximum Demand Record

Date: 3/19/2019	18,402 MW
Date: 3/20/2019	390,048 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	19,249 MW
TNB Generation	2,667 MW
IPP Generation	14,977 MW
Spinning Reserve	1,527 MW
Maximum Demand	17,743 MW
Net Energy	367,825 MWH
Load Factor	86.38 %

Fuel Cost

Total Cost:	74,608,345.76 RM
Cost per Unit	20.89 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	467
Hydro	396
Syncon	693
Thermal	217
Total	1,773

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	52
SRDG	4
TJGS	202
Total TNB	259
CBPS	52
KLPP	64
NPRI	157
PGLA	105
PLPS	60
PTEK	7
SGRI	144
SKSP	53
YPKA	71
Total IPP	713
Total Gas	972

Total Gas Required 972

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	14315	13670	13195	12726	12512	12335	12634	12685	13240	15213	16207	16904	16907	16628	17313	17675	17743	17367	16139	15839	16776	16853	16463	15789

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 27, 2019 11:04:18 AM

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

Daily MW Generation on Monday

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	688	693	691	683	688	688	689	688	688	691	681	688	692	693	694	691	689	700	692	652	651	653	651	650	690	694	692	691	694	692	691	692	691	695	690	692	693	687	694	693	700	688	693	693	693	693			
JMAH	U002	694	694	693	695	689	695	694	695	693	693	690	695	693	703	693	696	694	694	695	694	695	693	693	696	693	692	692	692	693	694	693	695	691	693	694	693	695	693	693	695	694	694	700	697	689	690	688		
JMHE	U001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	134	143	323	516	901	1003	996	998	993	997	611	605	607	607	762	764	761	760	758	761	760	762	761	762	765	763	763	760	762	758	759	761		
JMJG	U002	670	671	672	672	670	671	678	674	673	671	667	671	674	676	671	673	676	690	670	672	674	677	674	677	668	672	676	672	687	662	677	672	672	673	668	675	672	669	676	675	672	669	669	673	672	673	672	672	
JMJG	U003	672	668	667	677	666	668	670	671	665	668	668	668	669	677	670	640	669	670	669	666	668	667	668	671	666	667	671	671	667	669	670	671	662	666	671	668	668	662	671	666	666	669	670	668	670	668	660	665	
JMJG	U004	963	920	838	795	792	792	791	793	793	794	795	793	794	796	794	795	796	804	890	976	981	985	985	985	985	982	983	985	983	983	983	985	985	983	983	982	983	983	982	985	983	983	985	985	986	985	985		
JMJG	U005	973	888	789	786	790	791	793	790	791	791	790	791	792	792	788	792	790	807	913	963	979	977	982	980	985	982	981	981	978	980	983	980	983	980	977	981	983	978	975	971	974	973	974	971	974	977	972	977	
PKLG	U003	284	285	280	279	286	278	284	282	279	281	282	285	282	284	282	282	279	284	284	281	284	283	274	283	282	281	278	281	278	283	282	285	284	279	280	285	281	282	282	283	283	283	279	282	284	278	287		
PKLG	U004	281	280	280	281	281	281	280	279	279	280	282	281	281	281	281	279	279	280	280	280	280	287	282	281	280	279	278	279	277	278	278	280	280	281	281	278	281	280	280	281	280	281	286	278	281	280	281	280	
TBIN	U001	690	689	689	689	689	690	691	690	691	687	692	691	690	689	686	691	691	687	691	687	689	690	689	688	685	689	689	690	690	689	690	689	690	690	693	688	690	689	690	691	690	689	690	691	691	690	689		
TBIN	U002	693	691	693	695	692	693	690	692	692	690	691	693	695	693	690	691	690	690	689	693	694	691	689	689	691	691	691	692	693	695	693	694	694	692	689	692	689	693	690	690	689	693	691	692	693	693	691	693	
TBIN	U003	691	692	691	691	691	691	691	690	691	690	693	692	691	692	692	691	693	691	692	691	691	691	691	690	691	690	692	694	692	692	692	690	688	691	692	693	690	693	690	692	694	692	690	691	690	690	691	690	
TBIN	U004	951	884	803	801	801	802	805	802	802	801	803	802	805	800	804	803	803	813	904	953	953	952	952	953	950	952	952	955	953	951	951	953	951	952	952	952	952	954	952	950	952	954	950	952	951	953	955	953	947
Total ST-Coal		8250	8055	7786	7744	7735	7740	7756	7746	7737	7733	7741	7753	7747	7771	7741	7734	7890	7944	8388	8772	9177	9251	9235	9233	9223	9227	8885	8886	8894	8868	9050	9045	9036	9035	9024	9044	9036	9030	9033	9023	9042	9033	9044	9026	9043	9037	9015	9027	
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	0
CBPS	BLK2	351	362	361	359	359	361	355	225	212	211	218	219	221	301	362	345	322	372	365	358	365	365	365	365	366	365	366	373	366	359	359	359	359	352	359	345	362	363	366	360	367	368	364	364	366	360	365		
GLGR	GT01	83	70	67	67	68	68	68	70	66	67	67	68	68	67	67	69	70	70	101	100	100	99	100	99	99	101	99	101	101	100	99	100	100	99	99	67	68	67	67	86	99	102	100	98	83	85	85	89	
GLGR	GT02	85	69	69	69	68	69	68	68	68	68	68	69	68	68	69	69	70	70	101	101	101	100	101	101	100	101	100	101	100	101	100	100	100	101	66	68	68	68	87	100	103	101	99	84	85	85	91		
GLGR	ST1C	82	70	70	70	70	70	70	70	70	71	70	70	72	70	70	70	70	70	89	89	89	89	89	90	89	90	90	90	89	90	89	89	89	73	70	71	71	78	89	90	89	86	83	82	81	82			
KLPP	GT14	153	150	152	150	132	133	133	132	133	132	131	133	134	133	133	139	138	133	133	133	133	137	133	123	145	151	151	153	152	153	153	154	153	152	153	122	122	154	152	150	150	150	150	152	151	151			
KLPP	GT15	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	147	143	143	143	139	140	140	139	116	132	144	143	141	141	143	144	144	144	143	144	144	143	144	143	140	139	139	143	143	143	115		
KLPP	ST17	119	78	56	56	51	51	52	52	51	51	53	53	51	51	53	57	59	133	129	129	133	133	129	129	131	123	131	131	136	136	135	134	134	134	134	134	135	118	122	135	130	130	131	131	132	132	131	130	
NPRI	BLK1	508	520	520	512	516	519	511	493	473	393	338	421	490	493	470	471	525	526	520	512	517	517	521	520	516	518	520	520	524	517	511	515	511	509	501	511	486	516	520	520	518	518	520	518	516	513	511	518	
NPRI	BLK2	506	523	520	514	518	521	512	491	470	377	340	401	464	497	471	464	525	527	521	514	518	519	523	521	517	520	521	521	523	518	514	517	512	511	502	512	487	517	520	522	521	521	522	520	517	514	513	520	
PCGP	PGRG	586	598	601	600	597	600	590	603	589	581	592	591	605	601	601	603	607	610	600	592	596	597	602	601	597	602	600	597	617	594	587	593	586	579	562	585	535	597	602	600	602	601	595	593	586	586	603		
PGLA	GT11	213	210	206	199	193	177	164	168	166	161	203	165	170	204	166	167	194	212	168	165	164	193	207	216	200	193	217	214	220	214	212	212	207	208	183	196	172	194	175	192	200	207	206	209	173	165	164	191	
PGLA	GT12	215	214	209	203	198	181	168	173	170	166	205	169	174	208	168	172	197	218	172	168	169	196	212	218	203	197	219	219	225	218	217	217	210	211	186	198	175	197	179	195	203	210	210	210	174	168	167	195	
PGLA	ST10	240	239	237	235	227	208	204	206	206	204	225	205	205	234	213	206	213	242	205	208	210	237	235	239	232	229	243	239	243	241	238	240	240	233	226	230	211	213	206	219	229	234	230	236	220	206	206	211	
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	151	132	132	134	135	135	134	120	139	139	144	137	134	136	136	136	133	117	110	120	116	119	142	142	143	142	138	134	61	0	
PLPS	GT13	128	131	131	131	124	125	124	125	126	124	125	124	125	124	125	125	122	124	124	121	121	123	123	123	122	109	126	127	132</																				

Daily MW Generation on Monday

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	11	70	69	69	70	97	131	134	132	132	131	124	126	126	124	126	126	126	127	125	124	124	124	123	122	123	118	67	66	129	126	126	126	126	125	126	126	125	125	126	126	125	125	126																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	125	129	123	124	124	124	124	124	127	124	126	126	126	125	123	125	119	68	67	131	128	128	128	128	128	128	127	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
YPKA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	57	58	55	112	125	121	122	123	123	122	124	123	125	123	123	122	123	122	121	122	118	83	82	119	122	123	122	122	121	102	51	52																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
YPKA	GT21	117	125	125	124	65	65	65	65	65	65	65	65	65	65	65	66	99	135	133	132	132	132	134	134	133	132	132	130	131	130	131	131	130	131	129	131	126	65	65	120	120	117	117	116	116	115	115	117																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
YPKA	ST20	56	54	57	58	36	35	35	35	35	35	36	36	36	36	35	36	37	46	64	64	63	63	64	65	64	65	65	65	64	64	64	64	64	64	63	62	39	38	59	60	59	59	58	59	58	59	58	59																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Total CCGT-Gas		5822	5686	5531	5411	5217	4955	4755	4616	4537	4324	4339	4441	4608	4830	4725	4781	5046	6053	6464	6640	6605	6787	6823	6871	6769	6641	6900	7052	7350	7245	7189	7223	7252	7191	7047	7042	6643	6243	6209	6874	6989	7184	7060	7018	6634	6478	6051	5897																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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	94	106	106	106	107	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
PTEK	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106	106	105	106	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily MW Generation on Monday

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	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	17	23	26	32	36	40	43	41	44	44	42	43	42	38	38	13	2	4	3	3	1	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	13	37	80	98	141	192	213	220	252	235	215	216	184	183	214	147	134	96	75	31	29	13	5	0	0	0	0	0	0	0	0	0
PCUF	CUFG	21	29	41	46	47	45	48	47	46	45	45	47	47	46	46	47	47	46	46	45	46	46	47	46	47	47	46	45	45	45	45	45	45	46	44	46	43	45	46	46	46	46	46	45	47	46	46	
PCUF	CUFK	35	35	34	34	34	33	34	36	33	33	34	36	35	33	34	34	34	33	32	33	34	33	33	32	32	34	34	32	33	32	31	33	33	33	33	33	34	34	32	33	33	33	33	34	33	33	33	
Total Co-Gen		56	64	75	80	81	78	82	83	79	78	79	83	82	79	80	81	81	79	78	78	80	79	80	79	78	79	80	81	79	79	77	76	78	78	73	78	79	78	80	80	78	78	79	79	78	81	79	79
Total Gen		14319	13996	13585	13429	13224	12964	12781	12633	12542	12320	12351	12463	12649	12874	12739	12788	13223	14501	15222	15798	16216	16556	16900	16982	16903	16763	16677	17044	17308	17702	17734	17716	17722	17643	17388	16758	16181	15738	15847	16500	16778	16962	16873	16812	16449	16285	15837	15621
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	
TIE-HVDC		-29	-29	-29	30	30	30	30	30	30	30	30	30	31	31	31	31	30	30	29	29	30	30	30	30	31	31	29	29	30	30	30	30	31	31	30	30	31	31	30	30	31	31	30	30	30	30	30	
TIE-PLTG		37	-35	-52	33	3	10	29	-27	4	46	-10	10	-12	23	27	-12	-43	45	-16	36	-17	28	-30	-45	-31	-15	24	-15	-30	29	33	4	-47	-66	-5	-8	12	-51	-22	-103	-29	-8	-10	-27	-44	-32	17	-2
Interconnection		8	-64	-81	63	33	40	59	3	34	76	20	40	19	54	58	19	-13	75	13	66	13	58	0	-15	0	16	53	14	-1	59	63	34	-17	-36	25	22	42	-21	8	-73	2	23	20	3	-14	-2	48	28
System Total		14315	14064	13670	13370	13195	12928	12726	12634	12512	12248	12335	12427	12634	12824	12685	12773	13240	14430	15213	15736	16207	16502	16904	17001	16907	16751	16628	17034	17313	17647	17675	17686	17743	17683	17367	16740	16139	15759	15839	16573	16776	16939	16853	16809	16463	16287	15789	15593
SRev ST-Coal		207	373	390	386	398	393	381	387	397	403	392	380	392	365	390	552	396	379	550	235	280	226	222	224	234	230	172	171	163	189	172	177	181	182	193	173	181	187	184	194	175	184	173	191	174	180	202	190
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	
SRev CCGT-Gas		527	438	593	495	689	951	1151	1290	1369	1582	1697	1595	1428	1206	1311	1320	1208	708	632	532	567	385	349	301	403	531	412	403	255	360	416	382	353	414	558	563	962	1362	1396	731	616	421	545	587	755	695	849	644
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	
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
SRev Co-Gen		-1	-9	-20	-25	-26	-23	-27	-28	-24	-23	-24	-28	-27	-24	-25	-26	-24	-24	-23	-23	-25	-24	-25	-24	-23	-24	-24	-22	-21	-23	-23	-23	-23	-24	-23	-24	-23	-25	-25	-23	-24	-24	-23	-26	-24	-24		
Syncon		989	989	989	989	989	989	989	989	989	989	989	989	838	989	989	989	989	651	838	838	838	838	752	752	752	752	752	626	626	187	374	374	500	500	500	802	903	903	903	903	903	903	903	903	903	903	903	903
Hydro		277	274	272	273	276	276	279	279	278	282	275	281	406	273	274	275	274	417	406	408	405	434	412	382	380	380	414	353	386	413	471	511	512	494	572	345	332	354	205	204	285	285	262	263	258	263	260	334
S.Reserve Total		1999	2065	2224	2118	2351	2586	2773	2917	3009	3233	3329	3217	3037	2809	2939	3110	2841	2131	2403	1990	2065	1859	1710	1635	1746	1870	1725	1527	1406	1146	1419	1430	1531	1572	1806	1859	2355	2782	2665	2007	1954	1770	1859	1920	2067	2015	2190	2047