

Daily System Generation Summary on Monday

Monday, September 09, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,339 MW
Distillate	0 MW
Total TNB	2,339 MW
Total IPP	15,622 MW
Total Co-Gen	65 MW
Total System	21,105 MW

Generation Mix

Type	MWh	Percentage
Hydro	6,055	1.88 %
Gas	37,112	11.55 %
Total TNB	43,167	13.43 %
ST-Coal	189,146	58.86 %
LSS	1,543	0.48 %
Gas	85,699	26.67 %
Total IPP	276,388	86.01 %
Co-Gen	1,114	0.35 %
Total Co-Gen	1,114	0.35 %
Total Generation	320,669	99.79 %
PLTG	28	0.01 %
HVDC	-696	-0.22 %
Interconnection	-668	-0.21 %
Net Energy	321,337	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	16,996 MW
TNB Generation	2,262 MW
IPP Generation	13,121 MW
Spinning Reserve	1,579 MW
Maximum Demand	15,433 MW
Net Energy	321,337 MWH
Load Factor	86.76 %

Fuel Cost

Total Cost:	59,117,715.96 RM
Cost per Unit	18.41 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	636
Hydro	238
Syncon	1,007
Thermal	358
Total	2,239

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	49
TJGS	205
Total TNB	254
CBPS	50
KLPP	78
NPRI	77
PGLA	104
PLPS	76
PTEK	4
SGB3	41
SGRI	52
YPKA	36
Total IPP	519
Total Gas	773
Total Gas Required	773

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	14588	14013	13497	13050	12879	12426	12470	11956	11442	11709	12416	12889	13003	13017	13152	13335	13534	13490	13353	13970	15182	15433	15264	15194

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, October 10, 2019 3:33:23 PM

(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	693	692	689	693	693	691	693	690	692	693	692	694	694	693	689	692	694	693	692	691	692	691	694	697	692	693	693	693	694		
JMAH	U002	693	693	696	693	693	693	693	694	694	693	694	695	694	693	696	690	694	694	693	693	691	696	694	692	694	694	693	693	694		
JMHE	U001	984	977	975	978	980	981	807	781	783	780	778	774	778	775	777	780	781	783	779	782	780	780	856	850	852	848	851	849	946		
JMHE	U002	522	518	519	519	519	520	522	519	520	519	520	517	519	517	308	312	301	299	300	300	299	300	299	300	299	301	299	299	0		
JMJG	U001	673	676	675	699	673	671	668	683	684	667	671	676	672	672	672	673	671	673	664	671	666	666	667	668	666	667	668	663	666	667	
JMJG	U003	668	668	670	668	673	669	669	669	669	668	670	675	665	668	668	671	668	666	667	667	669	668	663	668	667	665	663	663	665	667	
JMJG	U004	979	980	974	976	974	976	929	843	803	801	801	801	803	801	800	803	803	804	803	801	804	803	854	854	854	855	854	855	854	912	
JMJG	U005	985	785	648	366	323	214	98	0	0	0	0	149	247	332	408	504	522	604	599	615	744	752	756	807	698	702	700	702	701	700	
PKLG	U003	285	287	280	280	280	283	281	282	281	282	285	284	283	282	281	277	241	277	282	281	283	283	282	284	284	283	281	283	281	280	
PKLG	U004	220	216	214	213	206	205	207	246	264	254	280	282	280	280	281	278	237	270	284	281	280	280	278	282	281	282	281	280	278	282	
PKLG	U005	470	470	470	472	470	470	469	470	470	469	468	470	470	470	476	468	425	466	468	470	471	472	470	470	473	470	470	471	470	472	
TBIN	U003	694	694	693	693	691	692	694	692	694	695	694	692	691	695	693	695	695	693	690	693	692	695	695	693	693	691	692	693	693	694	
TBIN	U004	982	983	983	982	982	983	936	849	783	782	780	782	782	783	783	781	782	782	783	783	782	783	811	852	851	854	853	853	853	912	
Total ST-Coal		8848	8639	8486	8232	8157	8048	7666	7417	7337	7304	7332	7483	7583	7664	7530	7631	7512	7702	7712	7730	7866	7862	7873	7875	7738	7739	7742	7884	7928	7928	7843
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	
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	
CBPS	BLK2	359	353	366	365	358	358	359	370	368	361	362	354	357	362	353	219	221	215	222	224	222	215	217	356	361	355	362	357	362	362	362
GLGR	GT01	85	68	69	68	69	69	71	69	70	68	68	68	67	69	68	69	70	70	69	70	69	69	68	68	69	69	68	69	101	100	
GLGR	GT02	83	68	69	68	68	68	69	68	68	69	68	68	68	68	68	69	68	69	69	69	69	69	69	69	69	69	69	69	69	101	
GLGR	ST1C	85	69	70	71	70	69	70	70	70	70	70	70	70	69	70	69	69	70	69	69	69	69	69	69	69	69	69	69	69	89	
KLPP	GT13	113	133	131	133	132	131	131	135	134	132	130	71	73	68	65	69	69	69	69	70	68	110	110	107	110	109	109	110	112	132	
KLPP	GT14	120	147	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT15	123	146	148	149	140	141	141	146	147	139	140	96	84	72	69	72	72	73	72	77	72	118	119	119	118	118	124	120	128	148	
KLPP	ST17	190	202	193	137	131	131	130	130	129	129	131	101	93	84	81	81	83	83	82	84	83	118	119	121	122	122	122	126	121	129	
NPRI	BLK2	511	503	510	519	509	507	514	524	526	512	509	502	510	503	495	408	416	413	417	508	505	498	505	491	502	502	498	494	502	504	
PCGP	PGRG	601	596	603	614	600	594	605	616	624	601	599	593	602	591	583	512	402	397	402	604	602	593	601	590	596	586	596	589	598	607	
PGLA	GT11	186	182	217	217	187	170	182	213	221	210	166	204	208	169	160	166	168	164	167	174	174	187	202	184	199	200	203	185	192	204	
PGLA	GT12	191	188	222	224	194	176	188	220	226	215	172	212	212	175	166	171	173	171	174	180	180	194	210	191	205	207	208	192	199	211	
PGLA	ST10	227	215	237	241	225	219	229	242	242	229	206	227	233	217	205	205	207	204	207	204	216	218	228	221	237	226	236	221	221	230	
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	0	0	
PLPS	GT12	139	116	121	124	119	117	119	123	124	119	120	74	64	65	58	64	63	61	64	65	65	61	64	115	117	116	116	115	120	134	
PLPS	GT13	127	106	109	111	108	105	108	111	113	108	107	108	60	58	55	63	62	59	61	63	63	105	107	103	104	105	106	104	108	126	
PLPS	ST18	142	131	136	137	133	133	133	136	135	133	133	115	90	90	86	85	90	87	90	90	91	107	109	131	134	131	134	134	141	141	
SGB3	GT31	131	131	107	110	105	101	105	111	112	106	106	102	106	104	101	104	105	104	104	104	105	101	105	101	101	103	106	103	106	106	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	ST34	72	72	65	65	63	63	64	64	65	65	64	64	64	64	65	65	64	64	62	62	64	64	64	64	65	65	63	63	63	63	
SGRI	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	0	0	
SGRI	GT12	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGRI	GT13	109	112	116	116	111	111	115	116	117	113	113	111	111	111	108	112	112	112	112	115	111	108	111	109	111	108	112	111	112	112	
SGRI	ST14	125	64	70	68	66	66	66	70	70	67	65	68	67	67	66	66	66	66	66	67	66	65	67	67	67	67	67	67	68	72	
TJGS	GT1A	185	226	231	233	222	192	231	226	225	226	211	223	229	213	162	151	151	151	156	163	196	209	219	211	203	213	208	203	205	212	
TJGS	GT1B	181	214	215	219	217	183	211	219	226	217	211	217	220	217	149	146	144	143	143	160	189	205	211	204	199	206	209	198	202	210	
TJGS	ST1C	234	237	243	250	247	242	244	251	248	246	239	246	249	245	220	185	209	187	187	192	217	219	231	224	24						

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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			
PCUF	CUFK	27	30	31	30	31	32	31	31	30	30	31	31	31	31	30	31	32	31	30	29	29	29	28	28	18	10	7	5	7	6	6	6	7	10	9	7	8	8	8	9	8	7	6	7	7	6	6	4		
Total Co-Gen		58	60	61	62	61	62	61	60	59	60	60	59	60	60	59	59	60	59	58	55	55	56	53	54	44	33	32	30	33	31	31	33	34	36	37	33	35	33	33	34	33	35	34	36	36	34	35	32		
Total Gen		14548	14217	13960	13697	13453	13219	12991	12866	12775	12638	12400	12451	12403	12328	11982	11587	11421	11608	11652	12040	12385	12732	12848	12938	12932	12929	13001	13114	13127	13268	13345	13420	13491	13570	13423	13452	13412	13388	13962	14937	15164	15295	15416	15370	15216	15169	15192	14831		
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	0	
TIE-HVDC		-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-28	-28	-28	-30	-30	-30	-30	-28	-28	-30	-28	-30	-30				
TIE-PLTG		-7	21	-20	-18	-12	-10	-28	6	-75	-4	2	50	-38	-15	55	26	8	9	-29	-27	-2	-3	-12	-2	-43	-39	13	12	4	14	39	2	-13	-24	-38	99	87	1	23	-34	12	-17	12	19	-18	8	28	32		
Interconnection		-36	-8	-49	-47	-41	-39	-56	-23	-104	-33	-26	22	-67	-44	26	-4	-21	-20	-57	-55	-31	-31	-41	-31	-71	-67	-16	-17	-25	-15	10	-27	-43	-54	-67	71	59	-28	-8	-64	-18	-47	-17	-9	-48	-20	-2	2		
System Total		14588	14229	14013	13748	13497	13261	13050	12889	12879	12671	12426	12429	12470	12372	11956	11591	11442	11628	11709	12095	12416	12763	12889	12969	13003	12996	13017	13131	13152	13283	13335	13447	13534	13624	13490	13381	13353	13416	13970	15001	15182	15342	15433	15379	15264	15189	15194	14829		
SRev ST-Coal		132	228	244	248	323	432	720	308	371	400	371	412	319	432	571	384	473	347	334	314	474	487	483	443	372	378	372	386	376	377	391	401	379	381	400	319	324	373	306	407	272	115	273	266	274	288	287	242		
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	3	10	11	11	6	6	12	0				
SRev CCGT-Gas		868	696	474	411	505	630	499	350	321	447	592	690	840	996	1227	1707	1771	1828	1794	1445	1263	975	873	766	685	705	664	686	708	563	388	376	353	210	311	282	583	676	477	189	266	377	225	241	240	249	242	551		
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		
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	-1	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	
SRev Co-Gen		7	5	4	3	4	3	4	5	6	5	5	6	5	5	6	6	5	6	7	10	10	9	12	11	21	32	33	35	32	34	34	32	31	29	28	32	30	32	32	31	32	30	31	29	29	31	30	33		
Syncon		1115	1115	964	1014	1014	1014	863	1014	1014	863	1115	1115	1115	1115	964	1115	1115	964	1115	1115	1115	964	1115	1115	1115	1115	1115	1115	964	1115	1115	1115	964	1115	1115	964	1115	1115	964	1115	1115	611	777	777	777	752	903	903	777	928
Hydro		137	138	266	96	99	100	227	95	134	264	133	134	133	133	264	133	133	262	133	133	133	265	134	135	261	390	133	134	260	132	132	132	257	130	130	256	132	132	131	298	201	260	261	325	252	273	305	151		
S.Reserve Total		2433	2356	2126	1946	2119	2353	2487	1946	2020	2153	2390	2531	2586	2855	3206	3519	3671	3581	3557	3191	3169	2874	2791	2470	2454	2620	2317	2356	2340	2221	2060	2056	1983	1865	1984	1853	2184	2328	2061	1536	1551	1572	1581	1627	1707	1753	1656	1908		