

Daily System Generation Summary on Monday

Monday, March 25, 2019

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	17,202 MW
Total Co-Gen	0 MW
Total System	22,648 MW

Generation Mix

Type	MWh	Percentage
Hydro	6,533	1.77 %
Gas	45,677	12.36 %
Total TNB	52,210	14.13 %
ST-Coal	212,458	57.48 %
LSS	1,426	0.39 %
Gas	102,207	27.65 %
Total IPP	316,091	85.52 %
Co-Gen	1,911	0.52 %
Total Co-Gen	1,911	0.52 %
Total Generation	370,212	100.17 %
PLTG	-16	0.00 %
HVDC	634	0.17 %
Interconnection	618	0.17 %
Net Energy	369,594	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:	15:30:00 Hour
Total Set On Bus	19,526 MW
TNB Generation	3,002 MW
IPP Generation	14,910 MW
Spinning Reserve	1,536 MW
Maximum Demand	18,041 MW
Net Energy	369,594 MWH
Load Factor	85.36 %

Fuel Cost

Total Cost:	6,118,954.88 RM
Cost per Unit	21.06 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	457
Hydro	430
Syncon	761
Thermal	125
Total	1,773

Time	Weather	Temperature
Afternoon	Thunder St	32
Morning	Hot	28

Gas Usage

Station	(mmscfd)
GLGR	51
PAKA	33
PGPS	37
SRDG	8
TJGS	210
Total TNB	339
CBPS	54
KLPP	90
MPSS	45
NPRI	154
PGLA	108
PKLG	1
PLPS	83
PTEK	22
SGB3	20
SGRI	52
SKSP	32
YPKA	29
Total IPP	690
Total Gas	1,029
Total Gas Required	1,029

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	14480	13776	13288	12971	12758	12509	12656	12998	13474	15382	16321	16937	17006	16816	17383	17971	17876	17246	16064	15728	16657	16490	16082	15803

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 27, 2019 11:14:31 AM

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

Daily MW Generation on Monday

		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	702	701	704	701	702	701	651	633	605	602	603	603	705	701	702	703	702	701	698	702	703	704	703	703	703	700	700	701	702	702	701	700	701	701	701	702	701	700	702	702	706	701	700	700	700	701			
JMAH		U002	702	705	704	707	705	705	654	643	605	603	604	604	694	706	703	703	699	705	703	706	716	706	699	705	703	699	704	706	701	705	704	705	704	704	705	704	702	702	706	703	702	705	702	703	702	705	703	703	
JMUG		U001	688	682	683	675	685	681	665	645	645	649	596	599	692	686	688	691	687	685	689	688	688	685	686	688	682	682	682	681	679	682	683	680	679	690	679	682	680	681	679	677	682	682	688	679	682	678	683	682	
JMUG		U002	676	680	680	682	679	682	673	646	647	647	601	596	651	682	685	684	679	682	682	683	683	680	681	685	682	683	686	683	686	685	681	688	686	685	682	683	682	679	681	679	683	688	680	683	681	679	679	683	676
JMUG		U003	673	672	672	675	673	679	661	640	644	644	596	596	677	679	673	679	679	671	682	673	672	671	672	672	672	672	667	676	676	673	676	674	667	672	671	672	673	671	671	682	672	672	673	672	671	673	673	688	
JMUG		U004	987	920	834	790	788	789	789	789	790	788	790	789	789	785	788	789	788	789	865	950	985	986	985	986	985	986	985	986	985	985	985	985	985	985	985	985	985	987	987	985	985	988	985	985	986	986	985	988	
JMUG		U005	978	880	780	777	780	779	782	777	782	782	780	785	782	782	779	781	780	908	980	979	981	985	979	979	982	981	981	980	978	978	976	981	981	981	977	975	974	980	977	982	979	980	979	979	978	977	977	980	
PKLG		U004	149	151	151	153	147	147	148	148	148	148	148	148	209	261	279	279	279	280	280	279	280	279	280	278	279	278	278	275	277	277	277	280	280	280	280	282	284	283	282	280	282	281	279	279	279	280	281	280	
PKLG		U005	270	268	270	270	269	267	269	268	269	269	269	269	313	405	468	468	467	466	466	465	466	468	468	468	466	468	470	467	467	471	470	468	462	467	468	468	467	468	471	471	469	469	472	468	468	469	469	469	
TBIN		U001	699	700	701	700	650	653	648	596	602	601	600	601	699	700	695	699	698	702	698	698	699	698	700	698	705	698	697	701	699	698	698	699	698	699	695	698	699	699	697	700	698	698	699	698	699	700	698	698	
TBIN		U002	700	701	702	700	654	487	618	706	612	599	603	605	689	700	703	700	702	702	700	699	701	698	702	702	699	700	700	699	701	699	701	701	698	701	695	699	701	699	700	699	702	700	700	700	702	665	601		
TBIN		U003	700	700	697	697	653	653	651	600	603	604	605	605	698	695	698	700	697	698	697	698	697	698	702	694	698	698	697	699	698	698	698	699	696	700	696	696	700	697	700	700	698	698	698	699	698	699	698	698	
TBIN		U004	951	885	802	803	802	803	806	803	803	806	803	800	802	801	800	801	803	883	954	951	952	952	954	952	954	952	949	951	953	953	947	952	952	951	952	952	953	953	952	952	953	951	953	952	951	952	954	952	952
Total ST-Coal			8875	8645	8380	8330	8187	8026	8015	7895	7753	7744	7597	7600	8396	8586	8662	8676	8659	8948	9181	9207	9227	9208	9198	9213	9215	9193	9206	9199	9190	9213	9204	9209	9194	9206	9194	9192	9200	9197	9211	9206	9201	9212	9207	9200	9197	9198	9168	9103	
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	363	358	365	367	365	371	368	366	370	363	362	361	283	222	221	221	261	356	363	361	359	365	362	362	356	362	358	364	363	365	361	361	357	360	361	360	359	352	361	363	363	365	364	359	361	362	352	364	
GLGR		GT01	68	68	67	69	69	68	69	69	68	68	68	68	68	67	69	66	69	103	104	102	102	102	102	102	102	102	101	102	101	103	100	102	101	101	101	101	88	67	68	82	100	102	93	68	68	68	67		
GLGR		GT02	67	68	68	68	68	68	69	69	67	68	68	69	68	68	68	68	68	104	103	103	103	102	103	103	103	102	103	101	102	101	101	101	101	101	101	103	102	88	68	68	83	101	101	94	69	68	68	68	68
GLGR		ST1C	71	70	71	70	71	71	72	70	71	70	71	70	70	71	70	70	70	88	91	90	91	91	90	91	91	92	91	92	92	92	91	92	92	91	92	91	87	71	71	76	89	90	89	70	70	70	71	70	
KLPP		GT13	114	112	115	89	0	0	0	0	0	0	0	0	0	0	0	0	47	138	141	142	140	140	144	144	135	145	140	146	144	146	145	145	145	146	147	147	123	106	110	131	148	148	146	147	147	147	146	146	
KLPP		GT14	127	127	127	143	144	150	138	135	133	132	133	132	133	133	137	135	136	134	136	133	133	150	151	151	145	151	150	151	150	149	149	149	150	151	150	153	133	112	112	142	143	143	148	143	142	142	143		
KLPP		GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	113	144	144	146	148	144	149	146	149	148	148	149	148	148	148	149	148	152	132	113	116	136	150	153	149	149	148	152	151		
KLPP		ST17	120	120	120	119	52	57	48	52	50	50	51	51	50	52	56	57	61	135	124	193	197	197	197	197	196	200	196	200	200	200	200	200	204	204	204	204	205	193	184	180	193	200	201	201	201	200	200	200	200
MPSS		GT01	97	96	97	100	99	100	99	99	99	98	98	99	98	97	99	97	98	98	98	99	107	100	103	103	102	104	103	103	103	85	102	103	103	103	92	68	68	68	76	102	101	101	106	97	96	95	96		
MPSS		GT02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	97	107	99	101	101	103	103	101	102	101	102	102	102	102	102	102	101	93	69	69	69	76	98	100	91	0	0	0	0	0
MPSS		ST01	42	42	45	42	43	44	43	44	46	42	45	44	43	44	45	44	44	44	40	90	114	114	110	111	111	111	110	112	112	111	112	112	111	111	111	107	67	66	66	66	105	105	105	50	46	44	42	44	
NPRI		BLK1	506	502	515	515	516	517	515	517	515	512	515	516	323	334	373	353	404	509	514	505	503	506	506	503	504	506	505	506	505	512	506	509	497	499	501	493	500	494	505	505	505	507	507	504	505	500	499		
NPRI		BLK2	508	505	515	518	519	517	517	518	511	518	518	518	318	333	373	350	406	512	514	506	506	506	506	505	504	508	508	510	507	511	507	509	498	502	501	496	504	495	506	508	506	506	508	506	505	502	500		
PAKA		GT4A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	84	84	84	94	91	92	92	92	94	93	93	93	93	93	84	84	85	84	85	84	84	84	84	85	84	84		
PAKA		GT4B	0	0	0	0	0	0	0	70	70	70	48	77	77	77	77	69	69	84	82	81	82	81	81	80	81	81	81	81	81	82	81	81	81	81	81	74	74	74	74	74	82	74	74	74	75	74	74		
PAKA		ST4C	0	0	0	0	0	0	0	0	0</																																								

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[illegible]

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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
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	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	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	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	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	0	0	0	0	0	0	0	0	0	0
SSLS	LSS1	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 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
PCUF	CUFG	41	41	40	43	42	42	42	42	42	42	43	43	43	41	41	41	40	40	39	39	37	38	36	38
PCUF	CUFK	40	40	39	41	41	39	41	40	39	41	39	39	40	39	38	39	38	39	40	39	39	40	38	38
Total Co-Gen		81	81	79	84	83	81	83	82	81	83	81	81	84	83	82	77	83	80	80	81	79	78	79	78
Total Gen		14494	14026	13749	13630	13278	13270	12968	12916	12807	12608	12514	12522	12675	12783	12972	13046	13499	14694	15383	15983	16322	16756	16957	17201
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
TIE-HVDC		-28	-29	-29	31	31	30	30	29	31	31	31	31	30	30	30	30	30	30	30	30	30	30	30	30
TIE-PLTG		41	-6	2	-28	-40	11	-33	13	18	15	-26	-47	-11	9	-56	73	-5	30	-29	-14	-29	18	-9	13
Interconnection		14	-35	-27	3	-10	41	-3	42	49	46	5	-16	19	40	-26	102	25	59	1	16	1	49	20	42
System Total		14480	14061	13776	13627	13288	13229	12971	12874	12758	12562	12509	12538	12656	12743	12998	12944	13474	14635	15382	15967	16321	16707	16937	17159
SRev ST-Coal		199	396	403	408	550	505	671	776	860	856	933	937	443	393	326	315	332	320	148	122	102	121	131	116
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
SRev CCGT-Gas		945	966	982	837	818	667	958	966	931	1124	1070	1063	1861	1777	1638	1572	1215	616	459	546	391	447	395	359
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
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
SRev Co-Gen		-3	-3	-1	-6	-5	-3	-5	-4	-3	-5	-3	-3	-6	-5	-4	1	-5	-2	-2	-3	-1	0	-1	0
Syncon		838	651	838	838	838	838	838	838	838	838	859	708	708	859	989	989	989	989	989	989	802	651	651	651
Hydro		269	271	264	264	266	262	264	264	265	264	263	264	393	388	262	265	263	261	264	263	261	295	423	422
S.Reserve Total		2248	2281	2486	2341	2467	2269	2726	2840	2891	3077	3101	3120	3399	3261	3081	3142	2794	2184	1858	1917	1742	1665	1599	1548