

Daily System Generation Summary on Tuesday

Tuesday, September 10, 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	15,615 MW
Total Co-Gen	65 MW
Total System	20,841 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,868	3.17 %
Gas	38,763	10.34 %
Total TNB	50,631	13.51 %
ST-Coal	202,847	54.13 %
LSS	2,168	0.58 %
Gas	117,348	31.31 %
Total IPP	322,363	86.02 %
Co-Gen	1,077	0.29 %
Total Co-Gen	1,077	0.29 %
Total Generation	374,071	99.81 %
PLTG	-2	0.00 %
HVDC	-699	-0.19 %
Interconnection	-701	-0.19 %
Net Energy	374,772	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:	16:30:00 Hour
Total Set On Bus	19,361 MW
TNB Generation	2,905 MW
IPP Generation	15,146 MW
Spinning Reserve	1,256 MW
Maximum Demand	18,156 MW
Net Energy	374,772 MWH
Load Factor	86.01 %

Fuel Cost

Total Cost:	72,428,677.75 RM
Cost per Unit	19.34 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	444
Hydro	372
Syncon	615
Thermal	206
Total	1,637

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	52
SRDG	8
TJGS	209
Total TNB	269

CBPS	53
KLPP	97
MPSS	4
NPRI	78
PGLA	106
PLPS	97
PTEK	16
SGB3	84
SGRI	130
SKSP	36
YPKA	59
Total IPP	759

Total Gas 1,028

Total Gas Required 1,028

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	14566	13786	13257	12861	12554	12427	12573	12747	13499	15470	16558	17170	17178	17001	17597	17995	18099	17713	16496	16337	17457	17373	16954	16744

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Thursday, October 10, 2019 3:34:14 PM

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

Daily MW Generation on Tuesday

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	690	699	691	691	692	691	692	693	693	691	694	694	691	692	694	692	692	693	692	693	692	693	693	694	693
JMAH	U002	694	694	694	693	695	693	692	694	694	693	693	695	696	694	693	694	693	694	663	596	583	584	584	583	584
JMHE	U001	946	954	949	954	809	776	781	782	783	785	781	783	779	780	778	779	781	983	978	979	980	976	980	974	976
JMHE	U002	0	0	0	0	0	0	0	0	0	0	0	0	131	233	524	960	1018	1020	1012	1014	1019	1018	1017	799	768
JMJG	U001	669	678	674	673	674	673	673	670	674	676	671	672	671	677	673	666	675	672	673	679	671	657	660	658	665
JMJG	U003	668	666	667	668	669	665	668	667	666	669	666	675	667	667	626	593	591	594	593	595	593	596	591	595	593
JMJG	U004	953	953	952	952	914	828	785	785	786	788	785	786	786	785	786	807	971	981	979	979	979	977	977	981	977
JMJG	U005	951	950	952	952	889	778	782	781	781	782	778	780	779	782	778	792	897	985	980	982	983	986	983	980	985
PKLG	U003	282	282	282	284	281	280	282	281	279	280	282	281	283	284	282	283	283	281	281	289	285	283	282	282	281
PKLG	U004	191	202	176	189	193	191	192	191	193	190	181	211	216	231	236	246	252	279	281	280	275	277	281	282	280
PKLG	U005	473	468	470	470	470	469	470	471	471	473	471	473	473	470	466	473	472	469	470	468	468	473	471	471	470
TBIN	U003	693	692	693	695	692	694	695	692	691	696	694	694	694	693	692	695	694	695	694	693	696	681	682	684	682
TBIN	U004	951	949	950	952	919	828	783	782	781	782	780	782	782	783	784	781	790	878	968	981	981	983	982	982	981
Total ST-Coal		8161	8187	8150	8173	7897	7566	7495	7489	7492	7505	7476	7526	7517	7538	7488	7466	7522	8107	8426	8533	8825	9164	9070	9051	9070
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
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
CBPS	BLK2	362	362	355	354	362	362	360	360	361	351	359	359	358	362	361	361	361	361	367	358	351	356	361	358	356
GLGR	GT01	99	79	68	70	70	67	68	70	70	68	68	70	67	70	68	69	68	77	93	86	93	92	87	91	85
GLGR	GT02	101	80	68	69	69	68	69	69	69	69	68	69	68	69	69	69	68	80	94	86	94	90	88	92	84
GLGR	ST1C	89	82	70	69	70	70	70	69	70	70	70	70	69	70	69	69	69	71	83	83	83	84	83	81	83
KLPP	GT13	112	112	113	112	112	110	111	112	71	69	69	68	67	73	68	110	112	134	117	132	136	111	135	134	135
KLPP	GT14	122	123	122	41	0	0	0	0	0	0	0	0	0	30	89	154	123	152	152	117	150	147	143	144	135
KLPP	GT15	126	122	123	122	122	123	123	124	77	79	81	79	79	85	77	119	123	151	128	149	151	123	147	148	148
KLPP	ST17	193	184	188	168	123	118	124	120	90	86	85	85	85	82	111	173	202	186	202	201	190	202	202	198	198
MPSS	GT01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	50	81	82	0	0	0	0	0	80	79
MPSS	ST01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	46
NPRI	BLK2	504	506	493	501	505	502	504	505	507	499	506	505	496	511	506	505	511	506	500	514	508	493	503	506	497
PCGP	PGRG	597	606	589	600	606	598	606	603	605	593	602	601	597	616	599	603	609	604	595	614	601	589	601	602	591
PGLA	GT11	205	166	180	170	188	190	197	171	174	166	171	167	162	217	216	190	214	164	209	216	215	211	213	213	211
PGLA	GT12	211	172	186	174	194	196	202	178	180	172	178	174	170	224	221	194	221	170	215	223	221	215	220	220	217
PGLA	ST10	233	206	219	216	225	232	232	210	222	216	212	208	209	239	234	227	241	214	235	242	240	239	242	242	240
PLPS	GT11	133	113	111	115	115	115	113	115	67	61	65	66	61	68	66	114	141	140	132	145	141	111	131	132	127
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	137	149	144	116	137	135	131	
PLPS	GT13	129	110	108	112	112	111	110	113	69	65	67	67	63	71	68	112	137	136	128	141	137	108	129	124	132
PLPS	ST18	144	131	133	134	133	134	133	133	93	90	93	89	92	92	93	125	145	144	207	217	211	199	212	212	207
SGB3	GT31	139	39	0	0	0	0	0	0	0	0	0	0	0	0	47	143	142	139	140	130	131	117	105	112	109
SGB3	GT32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77	139	135	121	111	117	114
SGB3	GT33	144	120	112	106	107	108	107	105	108	105	107	106	103	111	108	106	146	149	143	147	148	136	135	118	109
SGB3	ST34	150	124	65	65	64	64	64	61	65	61	63	63	64	65	66	66	78	149	150	150	152	219	211	207	199
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	138	138	135	112	134	129	112	
SGRI	GT12	139	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	135	115	134	133	115	
SGRI	GT13	130	101	104	103	104	103	104	103	106	106	105	105	106	109	106	106	109	127	127	130	127	112	134	128	114
SGRI	ST14	172	122	65	66	63	65	64	66	66	63	65	66	62	64	64	65	65	73	144	181	218	198	211	216	204
SGRI	GT21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	137	133	133	133	133	133
SGRI	GT23	0	0	0	0	0	0	0	0	0	0	49	35	38	38	38	38	52	56	144	141	143	143	141	141	141
SGRI	ST24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	28	39	65	69	56	134	143	142	142	142
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59	107	160	341	341	309	306	289	288	289	288

Daily MW Generation on Tuesday

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
JSLs	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
MCLS	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	29	29	31	30	29	29	29	29	30	31	30	29	29	28	29	28	27	26	25	26	26	26	26	26
PCUF	CUFK	4	6	5	5	7	6	5	7	7	4	5	7	4	7	5	26	27	26	26	27	25	24	25	25
Total Co-Gen		33	35	36	35	36	35	34	36	37	35	35	36	33	36	33	55	55	55	54	54	51	51	51	51
Total Gen		14552	14054	13778	13417	13202	12915	12816	12673	12476	12395	12399	12402	12507	12803	12723	12855	13486	14632	15472	15994	16503	16842	17155	17255
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		-29	-28	-28	-28	-29	-29	-29	-29	-29	-28	-28	-28	-31	-29	-30	-29	-29	-29	-29	-29	-29	-30	-29	-29
TIE-PLTG		15	-6	20	2	-25	-9	-16	-41	-49	33	0	-60	-37	-55	5	-45	16	-17	31	-15	-27	12	15	-14
Interconnection		-14	-34	-8	-26	-55	-38	-45	-70	-78	4	-28	-88	-66	-86	-24	-75	-13	-47	2	-44	-55	-17	-15	-44
System Total		14566	14088	13786	13443	13257	12953	12861	12743	12554	12391	12427	12490	12573	12889	12747	12930	13499	14679	15470	16038	16558	16859	17170	17299
SRev ST-Coal		269	243	280	257	431	463	460	465	466	454	472	429	430	412	459	389	439	301	127	50	131	219	262	259
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		478	926	883	1065	832	806	742	881	1082	1173	1166	1329	1234	963	1311	1222	886	833	496	386	582	643	419	478
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		32	30	29	30	29	30	31	29	28	30	30	29	32	29	32	10	10	10	11	11	14	14	14	14
Syncon		1014	1014	1014	863	1014	863	1014	1014	1014	863	1014	1115	1115	838	989	989	863	928	802	676	525	762	762	611
Hydro		99	103	100	230	99	231	99	99	99	100	225	99	228	227	99	89	88	278	150	150	260	372	384	405
S.Reserve Total		1892	2316	2306	2445	2405	2393	2346	2488	2689	2771	2756	2900	2787	2494	2915	2825	2538	2260	1773	1586	1850	2176	1881	1832
		2001	2203	2124	1835	1739	1596	1707	1527	1508	1256	1602	1738	1983	2061	1859	1401	1341	1328	1478	1486	1756	1649	1676	2060