

Daily System Generation Summary on Tuesday

Tuesday, June 11, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,516 MW
Distillate	0 MW
Total TNB	2,516 MW
Total IPP	15,278 MW
Total Co-Gen	15 MW
Total System	20,311 MW

Generation Mix

Type	MWh	Percentage
Hydro	13,215	3.54 %
Gas	51,542	13.82 %
Total TNB	64,757	17.36 %
ST-Coal	195,136	52.32 %
ST-Gas	4,106	1.10 %
LSS	1,518	0.41 %
Gas	107,479	28.82 %
Total IPP	308,239	82.64 %
Co-Gen	714	0.19 %
Total Co-Gen	714	0.19 %
Total Generation	373,710	100.20 %
PLTG	10	0.00 %
HVDC	728	0.20 %
Interconnection	738	0.20 %
Net Energy	372,972	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:	14:30:00 Hour
Total Set On Bus	19,199 MW
TNB Generation	3,240 MW
IPP Generation	14,085 MW
Spinning Reserve	1,845 MW
Maximum Demand	17,352 MW
Net Energy	372,972 MWH
Load Factor	89.56 %

Fuel Cost

Total Cost:	73,395,944.49 RM
Cost per Unit	19.77 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	421
Hydro	395
Syncon	801
Thermal	126
Total	1,743

Time	Weather	Temperature
Afternoon	Rainy	34
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	53
PAKA	51
PGPS	42
SRDG	14
TJGS	222
Total TNB	381
MPSS	52
NPRI	78
PGLA	112
PKLG	7
PLPS	94
PTEK	12
SGB3	35
SGRI	176
SKSP	55
YPKA	88
PKLG	41
Total IPP	751
Total Gas	1,132
Total Gas Required	1,132

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	15454	14617	14072	13735	13436	13298	13396	13349	13780	15631	16637	17193	17083	16847	17224	17335	17190	16864	15657	15482	16439	16428	15996	15610

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, June 24, 2019 10:50:43 AM

(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	693	691	694	691	694	689	695	690	694	693	690	692	692	691	690	691	693	692	693	695	696	696	693	690
JMAH	U002	695	694	693	694	694	696	694	695	688	696	696	695	694	694	694	695	694	650	470	350	354	352	353	350	353
JMHE	U002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	7	54	141	153	249	276	300	
JMJG	U001	672	670	698	670	666	673	672	678	677	676	680	678	672	668	672	677	673	673	672	671	669	670	672	675	672
JMJG	U003	668	672	673	672	673	673	672	672	672	673	673	672	671	673	673	671	668	666	669	642	658	569	543	545	609
JMJG	U004	978	978	978	977	975	975	973	915	830	804	803	804	804	806	804	804	829	957	977	978	977	977	972	972	972
JMJG	U005	977	982	983	979	983	981	982	881	797	801	804	801	801	801	799	801	829	934	983	976	975	978	980	980	979
PKLG	U003	285	281	280	282	283	283	284	280	280	283	282	280	281	283	281	281	283	281	282	282	279	280	280	281	285
PKLG	U004	285	281	281	280	282	280	280	280	279	277	279	278	279	281	279	280	279	280	281	278	279	280	280	280	280
PKLG	U005	468	468	468	468	468	469	470	468	468	468	468	468	470	467	468	468	468	470	470	470	468	470	470	470	468
PKLG	U006	461	446	453	449	455	466	467	476	468	469	464	460	450	445	442	461	474	473	471	464	465	463	467	458	453
TBIN	U001	693	689	694	690	694	692	692	690	691	689	690	691	690	688	693	690	689	691	691	691	692	692	689	688	690
TBIN	U002	691	692	695	691	690	693	691	691	693	694	691	693	690	692	691	693	691	692	694	693	691	694	693	692	693
TBIN	U003	690	690	692	692	690	693	693	692	691	695	691	689	690	691	690	694	691	691	695	692	693	690	694	692	690
TBIN	U004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	91	101	115	
Total ST-Coal		8253	8236	8279	8238	8244	8268	8261	8112	7923	7920	7911	7903	7885	7879	7881	7905	7959	8167	8254	8157	8138	8094	7968	7969	8046
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
PKLG	U002	0	0	0	0	0	0	0	0	0	0	15	33	58	67	95	129	169	233	274	286	285	284	285	284	285
Total ST-Gas		0	0	0	0	0	0	0	0	0	0	15	33	58	67	95	129	169	233	274	286	285	284	285	284	285
GLGR	GT01	102	102	71	66	68	66	66	68	66	68	65	67	102	102	102	103	102	101	101	101	102	103	103	103	103
GLGR	GT02	104	104	72	69	69	69	69	69	69	69	68	70	68	69	68	69	105	104	104	105	105	105	105	105	105
GLGR	ST1C	92	92	77	70	71	71	70	71	71	71	71	71	87	93	93	93	93	94	93	94	94	94	94	94	94
MPSS	GT01	106	106	106	107	107	107	106	94	93	94	95	95	90	92	93	90	93	93	88	105	103	103	103	105	105
MPSS	GT02	106	106	0	0	0	0	0	0	0	0	0	0	0	28	89	106	105	104	104	105	105	105	105	105	105
MPSS	ST01	113	113	49	50	50	50	50	43	42	40	41	40	39	39	39	39	37	112	112	112	111	111	112	113	113
NPRI	BLK2	511	511	523	511	511	511	510	512	511	513	515	509	509	509	499	510	511	512	512	521	511	511	511	505	509
PAKA	GT4A	94	94	94	94	94	95	95	85	85	85	84	85	84	86	85	85	85	94	94	94	93	95	93	93	93
PAKA	GT4B	82	82	82	83	83	83	83	75	75	75	75	75	75	75	75	82	82	82	82	82	82	82	82	82	82
PAKA	ST4C	91	91	91	91	90	90	90	82	81	81	80	81	81	81	81	89	90	90	91	91	91	91	91	91	91
PCGP	PGRG	603	604	613	603	602	602	604	603	604	603	606	606	602	603	602	597	603	602	603	602	610	604	603	603	603
PGLA	GT11	213	209	221	217	194	211	202	217	217	218	216	216	186	216	172	170	173	216	204	214	219	214	214	214	206
PGLA	GT12	216	214	225	219	198	213	206	220	219	221	221	222	190	222	174	174	177	222	209	219	223	217	218	219	209
PGLA	ST10	236	224	245	240	214	242	230	237	237	237	239	239	216	237	207	210	205	236	233	240	242	240	242	242	237
PGPS	GT3A	86	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	84	93	94	94	93	94	93
PGPS	GT3B	88	89	89	88	88	88	88	88	88	72	72	71	71	71	71	71	94	94	74	95	95	95	94	95	95
PGPS	ST3C	82	44	41	41	40	40	40	40	40	40	31	31	31	31	30	30	31	31	43	44	32	89	92	92	91
PLPS	GT11	130	0	0	0	0	0	0	0	0	0	0	0	0	5	81	115	114	129	144	134	135	132	121	128	
PLPS	GT12	134	133	138	134	133	59	59	59	60	60	58	63	115	120	120	60	119	120	119	134	148	138	135	136	124
PLPS	GT13	128	121	127	123	122	60	60	59	61	61	60	65	105	109	107	105	109	111	112	127	140	130	127	128	117
PLPS	ST18	208	163	144	140	140	92	87	87	87	86	86	90	131	134	134	112	168	201	207	211	212	207	211	197	198
SGB3	GT31	0	0	0	0	0	0	0	0	0	0	0	0	0	29	29	28	28	48	71	132	138	30	50	141	
SGB3	GT33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	23	143	117	124	
SGB3	ST34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	26	39	64	64	23	23	
SGRI	GT11	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	139	135	136	136	135	135	135	121
SGRI	GT12	115	139	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	137	137	137	138	137	126	132
SGRI	GT13	117	130	130	131	108	111	108	111	111	111	111	111	108	111	111	107	111	111	111	132	133	133	133	122	128
SGRI	ST14	197	178	118	75	69	65	65	65	64	64	68	67	64	64	65	67	71	140	144	203	217	213	216	217	202

Daily MW Generation on Tuesday

[illegible]

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			
TMGR	HY01	80	32	33	33	33	32	32	33	33	33	33	33	33	33	32	33	32	33	32	32	82	35	35	34	35	32	33	35	35	35	35	34	35	34	32	32	33	33	33	33	33	33	33	32	33	33	33	33	
TMGR	HY02	34	33	34	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	63	63	63	60	62	65	36	36	36	36	36	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY03	32	31	33	31	31	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60	55	57	32	32	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	81	32	33	32	32	32	32	32	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	32	32	32	32	30	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UJLI	HY01	-1	-1	-1	92	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	92	92	92	88	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1				
UPIA	HY01	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
Total Hydro		408	315	388	472	398	374	332	311	315	293	261	237	215	235	235	430	496	496	599	780	894	1071	1187	1212	1296	1051	1025	1034	969	932	785	861	863	862	858	234	210	192	192	287	444	529	431	368	246	197	162	161	
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		
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	8	11	14	11	16	20	17	27	11	24	11	6	7	9	7	8	6	7	5	4	2	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	1	5	10	18	21	25	30	27	35	12	12	40	42	42	38	16	34	9	5	0	1	3	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	0	0	3	3	22	22	33	33	33	39	39	23	14	33	23	21	11	11	11	11	2	2	2	2	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	3	8	10	13	20	28	36	33	30	35	22	23	18	26	18	16	12	11	9	7	4	1	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	1	8	10	12	14	16	21	27	30	34	23	18	16	15	14	17	14	15	11	8	4	3	1	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	4	7	13	15	19	22	29	36	14	34	35	46	39	34	32	16	5	4	12	5	2	2	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	1	2	5	25	26	22	19	18	18	32	12	11	51	55	17	54	17	5	6	10	6	3	1	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	1	3	5	9	13	15	25	23	23	28	31	32	26	26	22	19	8	7	8	3	4	2	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	7	24	54	99	136	148	189	207	222	206	208	226	256	225	173	195	140	85	67	65	48	34	18	5	2	2	0	0	0	0	0	0	0	0	
PCUF	CUFK	30	31	30	29	30	30	31	30	29	30	31	31	30	31	30	31	30	31	32	30	32	30	31	31	30	29	30	29	29	29	29	27	30	30	30	29	29	29	28	28	29	30	29	29	29	28	29	29	31
Total Co-Gen		30	31	30	29	30	30	31	30	29	30	31	31	30	31	31	30	30	31	32	30	32	30	31	31	30	29	30	29	29	29	29	27	30	30	29	29	29	28	28	29	30	29	29	29	28	29	29	31	
Total Gen		15496	15031	14616	14343	14087	13909	13755	13644	13459	13391	13294	13290	13357	13561	13395	13361	13849	15015	15630	16187	16623	16939	17206	17317	17106	16911	16908	17046	17249	17354	17348	17304	17214	17192	16914	16235	15742	15414	15533	16183	16437	16570	16447	16396	16053	15861	15678	15315	
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			
TIE-HVDC		31	30	30	31	31	31	31	31	30	31	31	30	30	30	30	30	30	30	30	30	30	30	31	31	30	30	31	31	30	30	31	31	30	31	31	31	31	31	31	31	30	30	30	30	30	30	31		
TIE-PLTG		15	53	-27	6	-12	-4	-7	-41	-3	-50	-30	-31	-66	-4	20	110	43	36	-27	-21	-40	-10	-14	-12	-3	11	35	9	-1	-24	-13	85	-2	-24	24	-9	58	-34	24	-45	-28	6	-6	17	31	-7	42	-9	
Interconnection		46	82	3	37	19	26	24	-10	27	-20	0	0	-35	26	50	140	73	66	3	9	-10	20	17	29	27	41	65	40	29	6	17	116	28	6	54	21	89	-3	55	-15	2	36	23	47	61	23	72	21	
System Total		15454	14953	14617	14310	14072	13887	13735	13658	13436	13415	13298	13294	13396	13539	13349	13225	13780	14953	15631	16182	16637	16923	17193	17302	17083	16874	16847	17010	17224	17352	17335	17192	17190	17190	16864	16218	15657	15421	15482	16202	16439	16538	16428	16353	15996	15842	15610	15298	
SRev ST-Coal		80	157	114	155	149	125	132	262	288	268	281	286	304	312	306	284	282	226	139	146	115	134	147	146	97	142	130	37	151	134	149	135	103	147	132	77	134	161	118	104	153	80	-1	36	106	207	215	100	
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	16	7	5	60	71	72	77	105	96	19	14	37	107	106	74	72	74	62	52	52	73	52	0	0	0	0		
SRev CCGT-Gas		510	583	458	371	560	738	844	784	783	827	884	856	763	592	785	1339	1066	555	600	397	338	332	313	281	639	539	809	822	543	324	229	302	363	219	407	480	742	876	737	319	263	248	409	381	699	388	413	656	
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	30	31	32	33	35	37	39	43	14	2	3	4	3	4	3	4	3	3	2	3	3	3	4	43	39	39	40	11	7	4	4	4	43	42	42	
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			
SRev Co-Gen		-15	-16	-15	-14	-15	-15	-16	-15	-14	-15	-16	-16	-15	-16	-16	-15	-15	-16	-17	-15	-17	-15	-16	-16	-15	-14	-15	-14	-14	-14	-14	-12	-15	-15	-14	-14	-14	-13	-13	-14	-15	-14	-14	-13	-14	-16			
Syncon		1029	1029	1029	842	878	1029	878	878	878	964	1115	1115	1115	1115	964	1014	1014	1014	1014	1014	741	615	615	615	802	802	802	888	737	737	737	737	737	737	737	989	989	989	989	989	888	737	838	838	989	989	989	989	
Hydro		454	547	498	601	639	512	533	404	400	272	218	91	113	93	93	248	108	108	105	224	260	356	453	453	483	541	567	567	396	560	568	407	405	406	410	270	144	162	162	217	361	427	424	487	308	157	142	143	
S.Reserve Total		2058	2300	2084	1955	2236	2389	2371	2313	2335	2230	2331	2332	2310	2127	2315	2853	2490	1924	1880	1809	1724	1553	1531	1490	1827	2074	2368	2289	2045	1849	1768	1590	1610	1534	1782	1912	2112	2286	2106	1717									