

Daily System Generation Summary on Tuesday

Tuesday, June 04, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,517 MW
Distillate	0 MW
Total TNB	2,517 MW
Total IPP	15,262 MW
Total Co-Gen	0 MW
Total System	20,858 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,435	3.29 %
Gas	35,755	11.27 %
Total TNB	46,190	14.56 %
ST-Coal	174,110	54.87 %
LSS	1,735	0.55 %
Gas	93,926	29.60 %
Total IPP	269,771	85.02 %
Co-Gen	1,240	0.39 %
Total Co-Gen	1,240	0.39 %
Total Generation	317,201	99.97 %
PLTG	-834	-0.26 %
HVDC	726	0.23 %
Interconnection	-108	-0.03 %
Net Energy	317,309	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:	15:30:00 Hour
Total Set On Bus	15,908 MW
TNB Generation	2,342 MW
IPP Generation	12,031 MW
Spinning Reserve	1,489 MW
Maximum Demand	14,451 MW
Net Energy	317,309 MWH
Load Factor	91.49 %

Fuel Cost

Total Cost:	60,803,207.48 RM
Cost per Unit	19.18 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	404
Hydro	265
Syncon	883
Thermal	180
Total	1,732

Time	Weather	Temperature
Afternoon	Thunder St	29
Morning	Hot	28

Gas Usage

Station	(mmcsfd)
GLGR	52
TJGS	204
Total TNB	255
KLPP	98
NPRI	149
PGLA	108
PLPS	81
SGRI	50
SKSP	52
YPKA	50
Total IPP	588
Total Gas	843
Total Gas Required	843

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	13631	13094	12660	12090	11936	11780	11715	11631	11727	12900	13692	14097	14138	13990	14357	14428	14367	14056	13453	13360	13693	13780	13378	13152

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, June 24, 2019 10:45:28 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	692	692	693	692	689	697	691	691	692	692	691	694	693	692	694	693	692	693	693	692	693	692	692	692
JMAH	U002	692	695	699	693	695	694	695	693	690	695	693	692	694	696	695	694	695	694	696	694	696	693	694	695
JMJG	U001	672	673	672	673	673	676	672	671	675	676	672	671	672	671	673	673	672	673	670	674	671	675	671	672
JMJG	U002	671	598	596	549	550	486	423	400	363	350	307	283	215	0	0	0	0	0	0	0	0	0	0	0
JMJG	U003	663	660	663	662	667	664	665	662	667	660	664	664	665	665	665	664	665	666	664	662	662	662	662	662
JMJG	U004	906	852	783	785	785	783	785	786	785	785	786	785	783	787	786	787	785	791	878	914	916	914	916	915
PKLG	U003	284	285	284	282	283	285	278	282	283	282	282	281	283	281	285	285	282	285	283	282	282	282	286	285
PKLG	U004	281	282	280	281	282	279	279	273	282	280	278	282	280	281	280	280	280	280	279	280	277	278	281	279
PKLG	U005	468	468	468	468	469	469	470	467	467	469	468	471	468	470	470	473	470	470	468	469	470	471	468	470
PKLG	U006	465	455	470	470	467	468	466	468	461	467	469	472	464	467	469	470	467	468	468	464	463	465	468	472
TBIN	U001	690	690	686	690	692	692	692	692	691	686	692	690	693	691	693	691	691	694	692	694	689	690	692	690
TBIN	U002	689	691	692	694	693	691	694	691	690	692	693	691	691	690	692	693	691	692	690	692	692	689	691	694
TBIN	U003	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	690	691	694
Total ST-Coal		7863	7731	7676	7629	7635	7574	7500	7466	7436	7424	7385	7366	7291	7078	7090	7098	7085	7076	7090	7089	7172	7205	7217	7209
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
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
GLGR	GT01	65	68	68	66	67	67	67	68	68	68	67	68	68	69	68	68	69	68	66	99	99	98	99	99
GLGR	GT02	68	70	69	69	69	69	69	69	70	69	70	70	70	69	70	70	102	101	101	101	101	101	101	101
GLGR	ST1C	70	70	70	70	70	71	70	71	70	70	70	70	70	70	70	70	85	89	89	89	88	89	90	90
KLPP	GT13	114	115	115	0	0	0	0	0	0	0	0	0	0	0	0	32	138	136	136	138	136	138	136	137
KLPP	GT14	126	124	126	124	82	82	80	81	81	81	81	81	81	82	81	82	82	130	154	153	152	152	153	148
KLPP	GT15	128	123	123	123	79	82	75	78	78	79	75	77	79	82	79	79	80	80	127	151	150	152	150	149
KLPP	ST17	188	184	188	152	94	90	90	89	89	86	86	87	87	90	82	93	93	89	188	200	200	200	202	202
NPRI	BLK1	494	505	505	502	491	493	402	381	352	349	424	365	421	462	454	340	416	504	502	506	505	506	505	505
NPRI	BLK2	494	506	507	503	491	487	407	383	351	349	427	363	419	466	455	340	414	506	505	507	508	507	508	508
PCGP	PGRG	595	603	600	600	602	601	597	603	604	602	400	401	403	502	501	503	603	600	603	603	604	602	600	602
PGLA	GT11	206	202	204	198	214	174	183	169	170	170	168	171	170	192	171	180	176	200	204	202	202	202	202	197
PGLA	GT12	209	208	210	202	217	180	189	174	175	173	176	174	196	176	175	185	181	204	207	207	207	207	201	204
PGLA	ST10	234	227	231	226	234	212	210	207	207	210	208	210	219	208	208	210	206	226	232	232	232	232	230	232
PLPS	GT11	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	148	140	138	139	126	129
PLPS	GT12	128	117	64	63	64	63	64	64	64	64	64	63	64	64	64	63	64	134	133	134	143	143	142	129
PLPS	GT13	120	106	65	66	65	65	65	65	65	65	66	66	65	65	65	64	65	64	121	123	127	136	134	134
PLPS	ST18	208	166	95	91	91	91	91	91	91	91	91	91	91	91	91	91	136	144	208	213	212	212	207	211
SGRI	GT12	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	132	125	104	103	103	103	103	103	103	104	104	103	103	103	103	103	103	103	115	129	129	129	129	129
SGRI	ST14	73	71	61	64	63	64	65	65	65	64	64	65	65	65	65	65	65	70	75	72	72	74	74	73
SKSP	BLK1	268	248	248	248	298	237	226	219	221	216	217	219	220	223	223	220	223	222	222	330	311	338	337	337
TJGS	GT1A	218	225	229	224	219	129	130	129	126	127	126	129	127	127	129	129	128	227	212	220	222	221	222	220
TJGS	GT1B	212	212	205	214	206	116	117	116	116	117	116	117	119	115	117	116	117	213	203	211	211	208	208	209
TJGS	ST1C	242	237	242	243	230	166	166	166	166	166	166	166	166	166	166	166	234	238	243	243	245	245	245	245
TJGS	GT2A	213	213	213	213	167	148	148	148	148	148	148	147	147	149	149	211	209	209	209	209	209	211	211	211
TJGS	GT2B	210	210	210	210	163	143	143	143	143	143	143	143	143	143	143	143	207	207	204	204	204	204	204	204
TJGS	ST2C	259	259	259	259	225	212	212	212	212	212	212	212	212	212	212	212	255	255	255	257	257	257	257	257
YPKA	GT11	125	127	127	127	66	66	66	66	65	66	65	65	66	66	66	66	65	127	127	127	127	128	126	126
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70	135	132	132	132	131	131
YPKA	ST10	53	53	53	53	32	33	32	32	32	32	32	32	32	32	33	32	32	33	52	122	123	125	126	126
Total CCGT-Gas		5575	5374	5191	5013	4702	4244	4067	3992	3931	3921	3864	3757	3873	4118	4039	3818	4094	4718	5232	5762	6049	6079	6080	6085

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
Total 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
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY02	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
CEND	HY01	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY02	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CEND	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HTRG	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
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY02	20	21	21	21	21	22	20	21	21	21	21	21	21	21	21	21	21	21	20	20	21	21	21	21
KNYR	HY01	0	0	0	0	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
KNYR	HY02	59	58	59	58	59	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
KNYR	HY03	-1	-1	-1	-1	-1	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
KNYR	HY04	0	0	0	0	99	98	98	97	97	98	97	97	97	97	97	97	97	97	97	97	97	97	97	97
LPJA	HY02	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	23	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY01	33	33	33	34	34	34	33	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
TMGR	HY04	-1	-1	-1	-1	-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	-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
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
Total Hydro		166	166	167	167	267	502	499	500	500	521	500	500	500	423	300	276	429	547	630	619	497	376	566	714
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
GBLS	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
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	30	31	31	29	30	30	29	30	31	29	32	30	29	29	29	30	31	26	25	22	18	14	16
PCUF	CUFK	25	32	30	30	31	30	30	29	30	31	31	29	32	32	30	29	30	30	29	28	29	29	29	29
Total Co-Gen		54	62	61	61	60	60	60	58	60	62	60	61	62	61	59	58	60	61	55	53	51	47	44	46
Total Gen		13658	13333	13095	12870	12664	12380	12126	12016	11927	11928	11809	11708	11726	11757	11689	11480	11760	12408	12895	13340	13723	13971	14114	14240
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		30	31	31	31	31	30	30	30	31	31	31	31	31	31	31	30	30	31	31	31	31	30	30	30

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																									
TIE-PLTG		-3	-75	-30	-8	-27	-70	6	-35	-39	-57	-2	-24	-20	-27	27	15	3	-74	-36	-15	1	-42	-12	-51	-41	-19	-44	-84	-70	-60	-46	-63	-47	-96	-23	-21	-21	-49	-5	-69	-75	-24	-59	-41	-39	-67	-20	3	
Interconnection		27	-44	1	23	4	-40	36	-4	-9	-26	29	7	11	3	58	46	33	-43	-5	16	31	-13	17	-21	-11	11	-14	-54	-40	-30	-16	-32	-17	-65	8	9	10	-18	26	-39	-45	7	-28	-11	-8	-38	10	33	
System Total		13631	13377	13094	12847	12660	12420	12090	12020	11936	11954	11780	11701	11715	11754	11631	11434	11727	12451	12900	13324	13692	13984	14097	14261	14138	13987	13990	14209	14357	14449	14428	14451	14367	14328	14056	13713	13453	13327	13360	13523	13693	13772	13780	13619	13378	13300	13152	13010	
SRev ST-Coal		217	205	183	207	175	197	190	224	254	206	205	185	262	189	179	171	184	191	179	186	190	188	176	184	175	187	180	171	184	187	193	176	176	141	173	167	173	182	188	176	183	187	166	196	182	216	215	188	
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		621	679	788	741	1052	1510	1687	1762	1823	1833	1890	1997	1881	1636	1715	1936	1660	1189	747	490	342	312	311	306	408	383	288	313	278	379	347	287	355	311	375	484	541	657	577	611	477	432	480	486	570	522	600	715	
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	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		-14	-22	-21	-21	-20	-20	-20	-18	-20	-22	-20	-21	-22	-21	-19	-18	-20	-21	-15	-13	-11	-7	-4	-6	-5	-7	-8	-11	-11	-7	-6	-6	-8	-6	-5	-6	-7	-7	-7	-5	-7	-4	-7	-5	-5	-3	1	-2	
Syncon		1115	1115	1115	1115	1115	1014	1014	1014	1014	863	1014	863	1014	1014	1014	1014	1014	1014	1115	928	590	741	741	777	1115	741	741	590	741	741	741	741	928	1115	1115	964	1115	1115	1115	1115	1115	964	1115	1115	1115	1115	1115	1115	
Hydro		145	145	144	144	144	110	113	112	112	242	112	239	112	112	111	112	112	112	189	212	185	319	539	305	316	402	185	369	221	331	301	291	294	303	212	217	241	289	180	257	222	189	222	259	133	132	132	128	
S.Reserve Total		2084	2122	2209	2186	2466	2811	2984	3094	3183	3122	3201	3263	3247	2930	3000	3215	2950	2485	2114	1889	1821	1740	1612	1530	1635	1742	1760	1582	1413	1480	1576	1489	1558	1490	1683	1977	2063	2085	2053	2154	1990	1919	1976	1900	1995	1982	2063	2144	