

Daily System Generation Summary on Tuesday

Tuesday, June 16, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,365 MW
Distillate	0 MW
Total TNB	2,365 MW
Total IPP	17,764 MW
Total Co-Gen	0 MW
Total System	22,952 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,305	3.11 %
Gas	34,470	9.47 %
Total TNB	45,775	12.58 %
ST-Coal	231,363	63.58 %
LSS	2,275	0.63 %
Gas	83,656	22.99 %
Total IPP	317,294	87.20 %
Co-Gen	284	0.08 %
Total Co-Gen	284	0.08 %
Total Generation	363,353	99.86 %
PLTG	100	0.03 %
HVDC	-623	-0.17 %
Interconnection	-523	-0.14 %
Net Energy	363,876	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,582 MW
TNB Generation	2,715 MW
IPP Generation	14,350 MW
Spinning Reserve	1,458 MW
Maximum Demand	17,170 MW
Net Energy	363,876 MWH
Load Factor	88.30 %

Fuel Cost

Total Cost:	56,711,282.72 RM
Cost per Unit	15.60 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	620
Hydro	232
Syncon	846
Thermal	178
Total	1,876

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	45
TJGS	194
Total TNB	239
CBPS	50
KLPP	82
NPRI	144
PGLA	107
PLPS	35
SGB3	24
SKSP	48
YPKA	20
Total IPP	508
Total Gas	748
Total Gas Required	748

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	14853	14403	13831	13327	13025	12846	12846	12945	13426	15250	15930	16470	16514	16242	16717	17080	17149	16683	15525	15190	16267	16174	15746	15377

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 07, 2020 1:36:44 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	694	690	692	691	692	693	691	690	693	691	695	651	651	653	652	652	693	691	692	692	694	690	693	692	691	694																							
JMAH	U002	692	694	695	693	697	695	694	693	691	695	652	653	653	657	653	686	693	684	696	692	693	691	694	694	694	697																							
JMHE	U001	978	981	980	779	781	783	780	782	783	779	780	780	781	781	778	778	781	779	783	944	982	978	978	979	977	980																							
JMHE	U002	980	980	980	783	780	780	780	780	783	780	781	780	780	780	779	782	781	779	783	977	979	980	978	980	977	980																							
JMIG	U002	672	673	675	671	671	672	670	670	672	672	671	669	679	666	668	679	670	662	678	667	684	679	665	673	671	672																							
JMIG	U003	569	568	571	574	565	576	564	570	579	602	677	662	669	668	662	673	663	669	665	666	669	670	669	662	666	665																							
JMIG	U004	898	899	900	898	840	788	789	786	787	788	786	786	788	785	787	789	788	786	788	862	899	900	900	899	898	901																							
PKLG	U003	283	283	283	282	282	282	282	282	283	262	150	149	149	150	150	255	281	284	284	284	283	283	282	282	283	285																							
PKLG	U004	280	282	280	279	279	279	280	279	280	265	144	153	152	152	153	151	249	276	281	280	281	280	287	279	278	282																							
PKLG	U005	468	466	463	464	466	473	464	465	393	319	252	269	268	268	268	270	338	423	466	468	473	468	462	466	468	467																							
PKLG	U006	446	445	449	451	449	448	448	445	446	447	449	452	448	451	446	451	446	447	449	450	448	451	448	449	449	451																							
TBIN	U001	686	687	688	686	687	689	685	687	688	688	686	692	687	687	686	687	688	687	686	685	689	689	690	687	687	689																							
TBIN	U002	691	695	693	695	693	692	693	694	692	693	690	692	696	691	691	693	695	687	692	694	692	690	691	690	693	692																							
TBIN	U003	690	691	690	692	689	691	691	691	695	690	690	689	689	689	690	691	693	687	689	689	689	689	691	691	690	691																							
TBIN	U004	0	0	76	157	207	248	374	415	449	646	783	784	784	784	784	784	851	947	984	982	986	982	983	982	981	982																							
Total ST-Coal		9027	9034	9115	8795	8778	8789	8885	8929	8914	9017	8842	8862	8876	8863	8846	8956	9213	9329	9414	9904	10095	10125	10107	10117	10095	10112	10135	10097	10117	10095	10094	10097	10101	10100	10112	10115	10102	10125											
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											
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												
CBPS	BLK2	357	359	364	363	361	223	224	224	223	223	226	223	224	224	223	223	283	369	368	367	366	366	369	0	364	356	356	361	361	360	360	363	363	360	363	359	359	300	362	361	361	357	357	355	362	359	347	357	
GLGR	GT01	70	69	68	67	70	70	70	69	71	68	71	70	68	69	68	69	71	70	71	70	69	69	70	69	70	69	68	70	68	104	105	106	104	105	104	74	69	70	70	69	70	68	69	69	68	70			
GLGR	GT02	70	69	68	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	70	69	70	69	69	69	69	104	105	105	105	105	105	74	69	69	69	69	69	69	69	69	69				
GLGR	ST1C	68	69	69	69	69	68	69	68	69	69	69	69	69	68	68	68	69	69	69	69	69	69	69	68	68	68	82	89	89	90	91	91	75	68	69	69	69	69	69	69	69	69	68	69					
KLPP	GT13	108	107	73	73	73	73	77	72	73	73	74	72	72	74	73	69	77	76	77	112	112	112	112	136	136	110	105	111	132	132	136	136	136	136	109	109	115	115	115	134	134	134	109	114	113	109	93		
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	120	154	128	110	111	112	150	150	150	150	152	151	154	111	115	110	114	142	154	155	120	0	0	0	0	0		
KLPP	GT15	123	120	83	86	85	86	86	82	86	86	82	83	84	85	85	84	88	90	90	123	122	122	121	153	153	110	124	123	150	151	151	150	150	150	154	125	123	123	125	150	150	155	141	124	120	125	125	131	
KLPP	ST17	117	117	92	92	90	88	89	89	88	88	88	88	88	90	92	91	88	88	96	96	124	124	128	190	202	202	184	184	181	202	204	204	200	200	199	199	182	182	182	182	190	190	202	194	130	124	120	124	118
NPRI	BLK1	503	508	501	476	493	501	502	387	393	326	386	384	398	395	370	362	432	528	532	525	525	526	523	523	517	510	525	521	521	533	535	535	521	509	508	506	520	521	521	519	520	510	512	518	521	503	519		
NPRI	BLK2	512	512	512	512	512	515	322	320	318	314	320	314	320	319	319	320	330	418	320	529	535	527	527	525	523	518	512	525	521	518	519	518	519	518	516	515	514	521	522	523	524	523	515	520	524	525	509	525	
PCGP	PGRG	603	604	603	603	602	603	417	403	304	214	214	214	212	213	211	216	217	404	612	603	602	605	600	600	600	560	534	523	520	524	552	553	552	553	537	484	433	351	352	549	550	553	569	545	498	452	429	450	
PGLA	GT11	201	200	169	169	169	169	169	170	169	169	170	170	170	168	170	169	169	169	170	168	169	204	202	204	183	183	172	170	202	203	203	203	204	195	203	202	171	171	171	203	203	203	203	203	173	172	172	172	
PGLA	GT12	220	220	220	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	169	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228	228			
PGLA	ST10	234	234	207	209	207	207	207	207	207	207	206	206	207	207	207	207	206	206	207	207	209	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243	243		
PLPS	GT11	128	128	129	129	129	129	128	128	128	128	128	128	128	128	129	128	129	129	129	129	129	129	129	128	128	129	128	129	128	143	143	143	143	142	129	129	129	129	129	143	143	129	129	128	129	129			
PLPS	ST18	59	59	59	57	59	58	58	58	58	57	59	58	58	59	58	59	58	59	59	59	59	59	58	58	60	59	60	61	60	61	60	58	58	58	58	61	60	57	59	57	58	57	58	57	58				
SGB3	GT31	106	106	107	107	106	106	104	104	105	102	106	106	106	106	106	106	106	107	110	107	106	106	106	0	106	103	102	106	106	107	106	106	106	106	104	101	67	0	0	0	0	0	0	0	0	0	0		
SGB3	ST34	65	65	63	63	64	64	63	63	64	62	64	64	64	64	63	63	64	64	64	66	64	64	64	0	64	64	63	63	64	64	64	64	64	64	64	62	45	0	0	0	0	0	0	0	0	0	0	0	
SKSP	BLK1	319	346	329	305	323	262	233	252	224	219	280	218	238	342	338	223	246	255	268	241	284	310	305	264	265	218	220	283	264	330	231	273	271	342	217	274	279	225	220	327	239	301	280	280	223	247	218	218	
SPGP	BLK1	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	155	155	155	155	155	155	155	0	0	0
TJGS	GT1A	205	231	198	190	193	141	172	129	130	124																																							

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	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	9	9	9	9	9	9	9	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6
CEND	HY02	9	8	8	9	8	8	8	7	7	7	7	7	6	6	6	7	6	6	6	6	6	6	6	6
CEND	HY03	9	9	9	9	9	9	9	7	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6
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
KNRG	HY03	22	22	22	21	22	22	22	22	21	22	22	22	22	22	22	22	22	21	21	21	22	22	21	21
KNYR	HY01	99	100	59	60	59	60	58	59	58	58	58	58	60	59	58	59	64	73	62	62	98	96	93	97
KNYR	HY02	99	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	99	99	99	98	98	99	99	98	99	98	99
KNYR	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	100	99	98	98	98	98	98	98	97	56	58
KNYR	HY04	99	60	59	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	99	99	99	99	99	99	99	99	56	59
LPIA	HY01	16	16	16	16	16	16	15	15	15	15	15	15	15	15	17	17	17	17	17	15	15	15	15	15
LPIA	HY02	16	16	16	16	16	16	15	15	15	15	15	15	11	11	11	11	11	11	13	13	13	13	12	12
MNOR	HY01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	5	5
PGAU	HY01	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PGAU	HY02	-1	-1	-1	19	-1	-1	-1	-1	19	-1	-1	-1	-1	19	-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	14	49	49	49	49	49
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	50	50	50	50	50
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	25	25
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	17	17	17	17	25	25
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	25
TMGR	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
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	34	34	35	34	33	31
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
TMGR	HY04	33	33	33	33	34	33	33	34	34	33	33	33	34	34	34	0	0	0	0	0	0	0	0	0
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	97	95	97	89	-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	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
UPIA	HY02	6	6	5	5	5	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total Hydro		482	351	247	268	188	187	183	184	199	176	178	177	177	202	200	172	174	274	516	534	515	532	548	514
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
GELS	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
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	4	5	3	5	5	5	4	4	5	4	3	2	3	4	4	3	5	3	3	3	3	3	3	3
PCUF	CUFK	3	4	1	4	4	2	2	5	6	5	3	5	1	3	3	1	3	4	4	2	3	3	4	3
Total Co-Gen		7	9	4	9	9	7	6	9	11	9	6	7	4	7	5	5	7	7	9	5	6	6	6	7

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 Gen		14853	14730	14427	14024	13825	13508	13241	13077	12965	12853	12837	12774	12835	12958	12911	12866	13330	14372	15161	15568	15927	16235	16444	15981	16490	16199	16198	16382	16631	16960	16988	17123	17126	17124	16732	16084	15570	15291	15209	16094	16228	16267	16142	15890	15705	15568	15385	15322		
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	0
TIE-HVDC		-28	-28	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-28	-28	-29	-29	-29	-28	-30	-28	-29	-29	-28	-28	-29	-29	-29	-29	0	0	0	0	0	0	0	0	0	0	-29	-29	-29	-29	-29	-29	-28	-28	-28			
TIE-PLTG		33	27	57	0	28	13	-52	19	-27	16	24	-7	21	36	-2	35	-62	6	-57	17	29	39	7	6	9	-14	-11	-68	-53	-42	-59	4	10	-12	53	57	49	23	22	42	-7	-3	2	13	-9	-45	40	-6		
Interconnection		4	-2	28	-28	-2	-16	-82	-11	-56	-13	-5	-36	-7	8	-30	6	-92	-23	-86	-13	0	9	-22	-24	-20	-43	-40	-96	-82	-71	-88	-26	-20	-42	53	57	49	23	22	13	-36	-32	-28	-16	-37	-73	12	-34		
System Total		14853	14736	14403	14056	13831	13528	13327	13092	13025	12870	12846	12814	12846	12954	12945	12864	13426	14398	15250	15584	15930	16230	16470	16009	16514	16246	16242	16482	16717	17035	17080	17152	17149	17170	16683	16031	15525	15271	15190	16084	16267	16303	16174	15910	15746	15645	15377	15360		
SRev ST-Coal		118	111	100	182	287	304	379	331	368	185	79	84	67	82	563	455	573	544	471	302	160	130	148	138	160	143	120	158	138	160	161	158	154	191	171	271	267	267	256	279	143	167	135	155	143	140	153	130		
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	0	0	0
SRev CCGT-Gas		589	565	840	949	1051	1376	1734	1946	2060	2250	2090	2173	2123	2015	2041	2178	2001	1213	798	947	811	810	667	581	595	851	932	720	667	479	520	412	416	332	688	875	1117	1259	1285	517	504	466	574	658	861	884	1009	1140		
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		65	63	68	63	63	65	66	63	61	63	66	65	68	65	67	67	65	65	63	67	66	66	66	65	66	66	67	67	67	66	63	30	13	13	13	15	64	66	63	68	64	63	67	66	67	63	65	65		
Syncon		826	977	1078	927	1179	1179	1179	1179	1028	1179	1179	1179	1028	1028	1179	1179	1179	1179	977	826	977	977	977	977	826	977	826	977	977	664	513	664	664	664	826	977	977	977	826	977	826	977	977	977	826	826	826			
Hydro		230	200	203	333	161	162	166	165	301	173	171	172	172	298	300	177	175	176	136	269	138	145	154	188	311	196	329	176	146	237	426	301	294	262	306	314	303	259	265	267	188	314	208	204	197	164	207	162		
S.Reserve Total		1828	1916	2289	2454	2741	3086	3524	3684	3818	3850	3585	3673	3609	3488	3999	4056	3993	3177	2445	2411	2152	2128	2012	1949	1958	2233	2274	2098	1995	1606	1683	1565	1541	1462	1842	2301	2728	2828	2846	1957	1876	1836	1961	2060	2245	2077	2260	2323		