

Daily System Generation Summary on Tuesday

Tuesday, January 21, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,462 MW
Distillate	0 MW
Total TNB	2,462 MW
Total IPP	17,730 MW
Total Co-Gen	0 MW
Total System	22,667 MW

Generation Mix

Type	MWh	Percentage
Hydro	10,860	2.89 %
Gas	28,910	7.70 %
Total TNB	39,770	10.60 %
ST-Coal	243,567	64.91 %
LSS	1,820	0.49 %
Gas	89,373	23.82 %
Total IPP	334,760	89.21 %
Co-Gen	198	0.05 %
Total Co-Gen	198	0.05 %
Total Generation	374,728	99.86 %
PLTG	-235	-0.06 %
HVDC	-293	-0.08 %
Interconnection	-528	-0.14 %
Net Energy	375,256	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	19,281 MW
TNB Generation	2,226 MW
IPP Generation	15,239 MW
Spinning Reserve	1,808 MW
Maximum Demand	17,458 MW
Net Energy	375,256 MWH
Load Factor	89.56 %

Fuel Cost

Total Cost:	59,350,260.18 RM
Cost per Unit	15.83 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	544
Hydro	306
Syncon	1,005
Thermal	153
Total	2,008

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Sunny	27

Gas Usage

Station	(mmscfd)
GLGR	48
TJGS	163
Total TNB	211
CBPS	47
KLPP	87
NPRI	141
PGLA	103
PLPS	78
SGRI	61
YPKA	36
Total IPP	553
Total Gas	764
Total Gas Required	764

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	15529	14777	14252	13726	13396	13267	13495	13542	13822	15650	16438	16975	16840	16470	17066	17351	17452	17056	15881	15760	16829	16825	16405	16042

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, March 09, 2020 2:13:58 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	U002	699	693	695	691	693	695	694	693	694	695	694	695	692	695	696	693	693	695	694	693	692	696	695	694	691	697	694	694	692	696	
JMHE	U001	981	982	979	860	827	826	830	832	832	828	829	830	832	829	829	907	980	983	980	981	981	982	979	980	981	978	981	976	982	978	978
JMHE	U002	981	983	979	975	925	826	830	828	830	829	830	831	829	832	828	829	831	832	830	985	979	980	980	978	975	977	982	980	982	981	980
JMJG	U001	667	673	673	674	672	671	612	649	615	545	551	548	650	673	674	673	674	667	662	602	567	578	612	689	668	672	682	677	673	672	654
JMJG	U003	670	671	668	679	662	672	665	634	552	508	547	542	593	631	672	672	670	664	667	666	673	671	675	664	667	669	657	672	668	668	666
JMJG	U004	898	897	897	832	834	836	836	837	837	834	835	836	834	835	835	836	879	904	903	902	903	900	901	902	903	902	903	904	905	903	904
JMJG	U005	977	979	977	873	830	831	832	830	830	829	830	831	832	832	829	832	832	882	980	977	980	975	980	982	979	981	980	977	983	979	978
PKLG	U003	281	280	285	284	277	284	272	284	284	280	281	283	288	282	282	280	281	283	282	282	279	278	275	276	282	280	279	280	285	284	285
PKLG	U004	279	281	291	281	279	280	276	280	239	197	244	280	283	283	279	280	281	281	276	276	281	281	278	279	280	284	280	277	289	280	277
PKLG	U005	468	467	466	466	466	466	466	467	413	393	387	340	362	445	466	468	467	466	467	466	466	468	468	468	467	467	467	466	466	468	466
PKLG	U006	445	446	446	450	450	446	452	449	448	449	449	449	448	449	445	445	445	448	449	449	449	449	447	449	446	448	448	449	449	449	449
TBIN	U001	690	691	689	691	690	690	690	691	687	690	691	689	690	692	690	691	690	691	689	690	689	690	688	690	689	691	692	690	689	690	691
TBIN	U002	693	689	688	691	693	687	693	686	690	695	691	690	691	691	692	693	691	688	692	690	689	691	694	692	689	685	692	689	694	687	691
TBIN	U003	692	692	691	692	691	691	692	691	691	693	692	693	691	695	689	690	693	693	690	691	692	691	692	694	692	691	690	690	694	690	691
TBIN	U004	982	983	982	920	834	833	832	833	831	832	834	831	835	830	835	833	833	878	968	983	983	982	983	982	983	982	981	983	983	983	983
Total ST-Coal		10403104071040610059 9823 9734 9674 9684 9473 9297 9386 9366 9551 9695 9742 9747 9755 9952 102301033810302102951034810423104071039610412103881043210406103931040610401104011039810420103001030610293103351031010309103211038910415103941041510407																														
Total ST-Oil		0 0																														

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																								
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	15	24	37	38	30	27	20	38	21	11	28	49	29	22	22	10	5	4	2	1	0	0	0	0	0	0	0	0				
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	14	45	88	112	136	201	179	224	262	260	257	247	258	238	251	187	171	171	132	97	63	29	15	8	0	0	0	0	0	0	0	0			
PCUF	CUFG	4	4	4	2	3	4	4	4	3	5	3	4	3	3	2	4	2	5	4	4	3	3	2	4	3	4	2	4	3	4	4	3	4	3	3	4	4	4	4	4	4	4	4	3				
PCUF	CUFK	6	6	5	4	3	3	4	4	5	7	5	6	5	3	5	4	5	6	4	7	3	5	3	6	6	5	4	5	3	4	4	5	5	5	5	5	7	5	4	4	7	4	5	5	5			
Total Co-Gen		10	10	9	6	6	7	8	9	10	10	9	9	6	8	6	8	10	7	10	5	9	5	11	10	9	7	8	5	10	6	8	7	9	8	9	9	8	11	8	7	8	11	8	9	8	9	8	
Total Gen		15507	15067	14696	14359	14170	13930	13711	13519	13325	13258	13216	13209	13511	13788	13573	13540	13773	14907	15536	16085	16395	16752	16933	16964	16743	16624	16458	16759	17004	17614	17355	17601	17467	17473	16994	16435	15854	15594	15770	16623	16817	16840	16774	16625	16366	16136	15982	15524
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			
TIE-HVDC		-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-30	-30	-29	-30	-30	-29	284	31	296	31	31	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30			
TIE-PLTG		14	-52	-45	-14	-47	36	22	1	-35	-57	-16	-7	53	56	67	63	-13	17	-77	-47	-7	7	-6	-94	-60	-38	25	-18	-25	-9	-19	-23	-9	-9	-24	15	11	-41	47	-26	25	-18	-15	-54	-3	0	-23	6
Interconnection		-15	-81	-74	-42	-75	7	-8	-28	-64	-85	-44	-37	23	26	38	34	-42	-13	-107	-76	-36	-22	-35	-123	-90	-67	-5	-48	-55	275	11	273	22	22	-54	-14	-19	-71	17	-56	-5	-48	-44	-83	-32	-29	-53	-24
System Total		15529	15155	14777	14408	14252	13930	13726	13554	13396	13350	13267	13253	13495	13769	13542	13513	13822	14927	15650	16168	16438	16781	16975	17094	16840	16698	16470	16814	17066	17346	17351	17335	17452	17458	17056	16457	15881	15673	15760	16686	16829	16895	16825	16715	16405	16172	16042	15555
SRev ST-Coal		152	148	149	6	82	171	222	131	181	306	257	220	183	126	163	158	150	495	255	137	143	150	137	132	148	159	143	167	123	149	162	149	154	154	157	135	165	159	172	130	155	156	144	166	140	161	140	148
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		
SRev CCGT-Gas		1410	1438	1680	1663	1669	1821	1963	2145	2136	2057	2177	2190	2069	1949	2171	2241	2063	1134	882	792	663	569	649	503	898	1100	1233	935	746	425	444	382	358	358	567	981	1408	1366	1156	482	387	365	417	408	526	660	838	1080
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	
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	
SRev Co-Gen		60	60	61	64	64	63	62	61	60	60	61	61	64	62	64	62	60	63	60	65	61	65	59	60	61	63	62	65	60	64	62	63	61	62	61	61	62	59	62	63	62	59	62	61	62	61	61	62
Syncon		954	954	954	954	803	954	869	1020	1020	1020	1020	1020	1020	869	1207	1207	1207	1267	1267	1180	1180	1029	464	1180	1180	1079	1079	1079	1079	615	1079	766	953	953	1079	1166	1166	1166	1166	1015	928	928	1079	1079	1079	928	928	878
Hydro		114	110	107	111	219	133	259	129	122	108	128	129	130	271	157	147	116	152	106	187	200	362	753	271	318	321	348	228	235	434	236	337	289	282	184	229	228	305	310	356	437	438	310	231	214	217	214	312
S.Reserve Total		2690	2710	2951	2798	2837	3142	3375	3486	3519	3551	3643	3620	3466	3277	3762	3815	3596	3111	2570	2361	2247	2175	2062	2146	2605	2722	2865	2474	2243	1687	1983	1697	1815	1809	2048	2572	3029	3055	2866	2046	1969	1946	2012	1945	2021	2027	2181	2480