

Daily System Generation Summary on Monday

Monday, December 23, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,133 MW
Distillate	0 MW
Total TNB	2,133 MW
Total IPP	15,746 MW
Total Co-Gen	0 MW
Total System	20,392 MW

Generation Mix

Type	MWh	Percentage
Hydro	18,437	5.22 %
Gas	32,484	9.19 %
Total TNB	50,921	14.41 %
ST-Coal	225,277	63.77 %
LSS	2,447	0.69 %
Gas	74,038	20.96 %
Total IPP	301,762	85.41 %
Co-Gen	206	0.06 %
Total Co-Gen	206	0.06 %
Total Generation	352,889	99.89 %
PLTG	-265	-0.08 %
HVDC	-136	-0.04 %
Interconnection	-401	-0.11 %
Net Energy	353,290	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	18,436 MW
TNB Generation	2,929 MW
IPP Generation	14,143 MW
Spinning Reserve	1,360 MW
Maximum Demand	17,125 MW
Net Energy	353,290 MWH
Load Factor	85.96 %

Fuel Cost

Total Cost:	62,630,265.63 RM
Cost per Unit	16.74 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	425
Hydro	321
Syncon	745
Thermal	207
Total	1,698

Time	Weather	Temperature
Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	32
PGPS	1
TJGS	196
Total TNB	230
CBPS	49
KLPP	80
NPRI	142
PGLA	85
PTEK	4
SKSP	32
YPKA	38
Total IPP	431
Total Gas	661
Total Gas Required	661

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	13602	12934	12550	12152	11929	11789	11915	12197	12849	14660	15706	16201	16300	16132	16680	16950	17106	16820	15649	15526	16153	16032	15443	15179

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, January 05, 2020 10:40:52 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Monday

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	692	694	692	693	692	693	629	631	631	636	634	634	692	691	689	693	692	694	692	696	691	689	693	691
JMAH	U002	694	698	693	693	695	693	694	632	634	632	634	634	633	696	694	688	696	693	697	686	698	695	689	695	692
JMHE	U001	848	777	781	783	771	781	780	778	775	781	781	781	781	779	780	777	781	780	782	982	981	978	976	980	981
JMHE	U002	748	750	751	751	744	750	747	747	746	752	752	750	750	752	751	749	749	748	746	751	749	752	749	748	744
JMJG	U003	660	662	668	662	657	663	664	661	663	666	667	668	667	660	664	666	666	663	672	659	660	664	672	659	660
JMJG	U004	853	824	787	788	789	789	788	788	789	789	790	788	787	789	788	836	983	983	977	977	980	976	977	977	980
JMJG	U005	849	804	778	785	780	779	780	777	781	778	782	781	778	780	781	777	778	778	818	956	978	965	978	977	972
PKLG	U003	281	283	281	279	279	212	143	144	148	150	150	151	151	242	280	283	282	281	283	282	281	281	282	283	285
PKLG	U004	278	278	279	280	278	227	155	147	149	153	157	154	156	153	154	234	271	285	281	280	279	280	278	281	279
PKLG	U005	470	470	470	460	464	408	323	254	269	269	268	269	267	269	342	429	467	466	467	468	467	468	466	466	466
TBIN	U001	691	693	688	691	691	691	694	686	629	630	630	630	630	692	693	686	689	691	692	687	692	689	690	689	690
TBIN	U002	692	694	692	696	694	689	693	695	632	633	632	635	636	692	691	692	691	689	692	691	693	691	694	693	690
TBIN	U003	691	691	691	691	693	692	689	693	632	633	634	636	636	693	692	690	693	691	692	690	693	692	688	693	690
TBIN	U004	853	821	784	783	784	783	783	781	783	783	783	784	781	784	783	781	781	781	781	880	980	983	982	983	985
Total ST-Coal		9298	9137	9037	9043	9012	8849	8626	8412	8261	8280	8296	8285	8288	8580	8581	8786	8986	9036	9120	9690	9836	9811	9793	9824	9830
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	353	360	234	219	217	220	216	223	216	224	217	218	218	225	223	209	217	328	361	345	355	361	362	359	357
GLGR	GT01	95	93	89	90	89	84	110	110	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GLGR	GT02	35	90	90	80	92	82	110	102	90	93	93	95	96	95	95	95	95	94	95	95	95	94	100	101	94
GLGR	ST1C	41	45	46	42	49	68	82	81	71	50	35	36	37	37	35	35	35	36	37	36	37	38	38	42	38
KLPP	GT13	119	120	120	120	118	119	118	120	120	119	119	122	120	120	124	119	127	123	123	120	123	119	138	130	125
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	61	133	133	129	133	129	153	136	131	135
KLPP	ST17	52	51	51	53	53	54	54	52	52	53	53	53	53	53	49	53	121	117	125	194	194	202	194	194	198
NPRI	BLK1	502	417	430	420	350	455	343	406	494	523	388	424	503	427	476	328	367	424	509	490	501	505	505	511	504
NPRI	BLK2	499	509	388	391	289	300	289	295	292	299	308	307	307	310	307	286	309	501	511	490	502	505	508	511	507
PCGP	PGRG	567	590	583	587	481	403	385	395	388	402	399	403	400	401	400	460	402	579	598	558	581	591	598	605	590
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105	138	209	224	212	219	221	217	181	164
PGLA	GT12	171	175	168	169	168	172	167	169	175	171	173	180	170	183	177	168	186	189	190	235	244	235	242	244	241
PGLA	ST10	91	91	91	91	91	91	91	94	94	91	91	91	91	91	89	93	91	86	228	247	239	246	246	248	227
PGPS	GT3B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKSP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	244	272	321	269	273	312	316	325	286	236
TJGS	GT1A	176	138	139	139	139	139	141	142	149	142	141	151	140	148	143	123	143	130	194	125	140	222	223	227	200
TJGS	GT1B	172	137	133	137	134	133	133	135	140	135	134	143	135	144	137	119	139	123	189	122	135	222	218	217	194
TJGS	ST1C	217	180	180	180	180	181	181	182	183	180	180	180	183	180	181	178	182	193	202	177	177	232	243	226	241
TJGS	GT2A	177	148	148	148	148	148	148	148	148	148	148	147	147	148	148	148	220	215	215	215	214	212	215	215	213
TJGS	GT2B	172	143	143	143	145	144	145	145	144	144	144	143	145	143	145	145	145	214	210	211	211	211	210	210	210
TJGS	ST2C	230	212	212	212	212	210	210	210	210	210	210	210	210	210	210	248	256	256	256	256	258	258	258	258	258
YPKA	GT11	67	68	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	67	68	68	67	68	68	95	66
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	98	97
YPKA	ST10	32	32	32	31	31	32	32	31	32	31	31	31	32	31	31	31	32	32	31	32	32	43	104	99	77
Total OCGT-Gas		3768	3599	3344	3320	3054	3105	3023	3105	3147	3086	2932	3003	3055	3013	3044	2941	3256	4224	4606	4595	4895	5119	5347	5413	5277
PTEK	GT1A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PTEK	GT1B	0	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 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
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	0

Daily MW Generation on Monday

[illegible]

Daily MW Generation on Monday

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																								
PCUF	CUFG	3	2	2	2	2	2	3	2	2	4	3	2	2	3	3	2	3	2	2	3	2	4	2	3	2																							
PCUF	CUFK	8	12	8	10	10	9	11	11	12	11	11	12	11	12	11	13	12	5	5	3	2	2	1	4	4	3	3	1	1	2	2	2	3	1	3	4	3	4	4	5	2	3	4	5				
Total Co-Gen		11	14	10	12	12	11	14	13	14	15	14	14	15	14	15	15	6	8	4	4	6	4	6	7	6	5	5	3	5	4	4	6	3	4	6	5	7	6	7	8	7	5	5	7	7			
Total Gen		13642	13319	12944	12910	12614	12502	12195	12065	11957	11917	11778	11837	11892	12143	12194	12292	12826	14031	14671	15226	15620	15977	16167	16424	16249	16079	16042	16303	16620	16869	16902	16936	17054	17076	16761	16201	15669	15323	15514	16163	16097	16019	15953	15794	15410	15286	15144	14872
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		30	30	31	31	31	31	30	30	31	31	32	31	32	29	29	29	29	30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-30	-30	-31	-31	-30	-30	-30	-30		
TIE-PLTG		22	24	-9	-12	45	-19	25	-8	9	-24	-30	-37	-42	-39	-20	68	-41	-11	-7	-20	-45	-30	8	-29	-9	-35	-49	-19	-19	-32	-7	-18	-11	-9	-18	11	62	-24	29	-47	-15	-14	-37	-19	9	-54	8	13
Interconnection		52	54	22	19	76	12	55	21	40	7	1	-5	-11	-7	9	97	-11	18	23	-49	-74	-59	-22	-58	-39	-65	-78	-48	-48	-61	-36	-47	-40	-37	-47	-18	32	-53	0	-76	-44	-43	-67	-49	-21	-84	-23	-17
System Total		13602	13277	12934	12903	12550	12502	12152	12056	11929	11922	11789	11854	11915	12162	12197	12207	12849	14025	14660	15287	15706	16048	16201	16494	16300	16156	16132	16363	16680	16942	16950	16995	17106	17125	16820	16231	15649	15388	15526	16251	16153	16074	16032	15855	15443	15382	15179	14901
SRev ST-Coal		479	461	467	466	486	574	567	699	875	867	859	868	858	566	567	598	519	467	471	273	147	172	190	159	153	153	167	153	164	151	208	277	266	212	218	224	212	218	214	163	168	169	175	200	167	159	133	179
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	4	10	100	59	60	0	0	0	0	0	0	0	0	0	0	0	0		
SRev CCGT-Gas		650	854	1154	1178	1444	1393	1475	1443	1401	1307	1461	1390	1338	1380	1349	1557	1457	829	527	778	643	419	386	320	456	617	682	478	207	140	276	295	232	229	384	375	621	895	689	511	462	397	380	491	838	668	799	659
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		64	61	65	63	63	64	61	62	61	60	61	61	62	61	61	60	61	60	60	69	-1	3	3	1	3	1	0	1	2	2	4	2	3	3	1	4	3	1	2	0	1	0	-1	0	2	2	0	0
Syncon		1253	1253	1102	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1102	1102	1253	1253	1066	1066	1253	915	791	579	579	705	554	403	403	554	554	428	302	453	453	791	1165	1253	1253	705	705	791	1066	1102	1102	1253	1253	1253
Hydro		133	129	246	113	112	113	118	115	115	114	114	115	199	199	244	251	111	117	203	249	130	350	181	357	360	277	402	530	430	455	405	294	376	408	498	377	283	223	221	272	378	348	201	237	240	108	105	107
S.Reserve Total		2579	2758	3034	3073	3358	3397	3474	3572	3705	3601	3748	3687	3710	3459	3323	3568	3401	2726	2327	2435	2172	1859	1551	1416	1551	1753	1805	1565	1206	1302	1451	1306	1279	1364	1614	1771	2284	2590	2379	1651	1714	1705	1821	2030	2349	2190	2290	2198