

Daily System Generation Summary on Sunday

Sunday, January 05, 2020

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,347 MW
Distillate	0 MW
Total TNB	2,347 MW
Total IPP	16,769 MW
Total Co-Gen	0 MW
Total System	21,939 MW

Generation Mix

Type	MWh	Percentage
Hydro	9,270	2.86 %
Gas	29,489	9.10 %
Total TNB	38,759	11.97 %
ST-Coal	214,696	66.29 %
LSS	2,580	0.80 %
Gas	68,331	21.10 %
Total IPP	285,607	88.18 %
Co-Gen	231	0.07 %
Total Co-Gen	231	0.07 %
Total Generation	324,597	100.22 %
PLTG	-20	-0.01 %
HVDC	726	0.22 %
Interconnection	706	0.22 %
Net Energy	323,891	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:	21:30:00 Hour
Total Set On Bus	16,822 MW
TNB Generation	2,454 MW
IPP Generation	12,883 MW
Spinning Reserve	1,476 MW
Maximum Demand	15,324 MW
Net Energy	323,891 MWH
Load Factor	88.07 %

Fuel Cost

Total Cost:	52,902,900.34 RM
Cost per Unit	16.28 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	335
Hydro	254
Syncon	963
Thermal	398
Total	1,950

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	28
TJGS	181
Total TNB	209
CBPS	53
NPRI	146
PGLA	79
PLPS	46
SGRI	44
Total IPP	368
Total Gas	576
Total Gas Required	576

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	14652	14014	13499	13088	12717	12386	12357	11999	11429	12075	12751	13190	13300	13195	13677	13846	13952	13832	13541	13730	15203	15300	15179	14971

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, March 08, 2020 11:58:42 AM

(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

Daily MW Generation on Sunday

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	693	698	691	696	693	689	694	699	693	694	697	697	694	695	692	692	696	692	698	693	692	697	693	691	695
JMHE	U001	981	980	981	980	978	980	776	780	781	781	781	778	780	783	781	781	779	782	782	781	782	782	781	779	782
JMHE	U002	979	979	980	981	977	981	978	782	780	781	781	778	780	782	781	778	782	777	783	780	782	780	778	780	778
JMJG	U001	671	671	668	678	672	674	671	671	668	673	671	675	672	673	675	673	668	671	660	671	672	676	677	671	673
JMJG	U003	672	668	671	668	670	663	678	668	665	668	670	668	671	667	668	665	668	671	670	668	670	668	665	667	666
JMJG	U005	976	979	977	979	977	978	979	919	782	778	780	780	779	781	782	778	780	780	781	782	779	781	863	862	865
PKLG	U003	280	283	283	283	283	283	283	280	283	280	282	281	279	280	282	283	284	284	284	284	284	283	282	281	280
PKLG	U004	282	284	284	284	284	284	284	278	209	208	208	208	209	207	217	210	210	210	209	208	208	209	204	215	223
PKLG	U005	467	467	467	467	467	467	467	468	466	467	468	466	466	466	466	466	466	468	468	468	468	467	472	467	470
PKLG	U006	336	336	336	336	336	336	336	321	349	349	349	350	349	349	350	349	352	349	354	359	357	361	367	367	378
TBIN	U001	690	690	690	690	690	688	688	691	690	691	690	690	691	689	690	692	690	689	688	690	693	689	689	694	690
TBIN	U002	690	693	691	691	689	692	690	691	692	687	692	693	691	694	690	690	692	691	693	688	691	693	690	691	692
TBIN	U003	686	691	692	690	689	690	691	691	693	690	691	692	692	692	690	689	691	691	691	691	691	691	691	691	691
TBIN	U004	982	983	982	983	983	983	983	919	831	782	782	783	781	782	782	782	781	780	782	782	782	783	863	863	
Total ST-Coal		9385	9402	9393	9406	9388	9388	9198	8881	8622	8532	8539	8541	8539	8542	8529	8535	8539	8536	8541	8538	8550	8552	8791	8870	8883
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	362	362	362	357	356	360	359	357	360	360	356	360	362	358	266	219	211	223	222	240	357	362	353	362	360
GLGR	GT02	96	97	97	97	97	97	106	106	107	106	96	96	95	96	95	96	95	95	95	95	96	95	95	96	95
GLGR	ST1C	38	38	38	38	37	42	44	44	44	39	37	37	37	37	37	38	38	38	37	38	38	39	39	39	44
NPRI	BLK1	515	515	512	507	503	461	460	452	476	343	472	472	484	409	426	357	317	330	337	497	497	510	497	510	509
NPRI	BLK2	515	517	513	509	505	515	510	516	517	516	512	514	516	516	518	317	302	315	513	510	511	511	499	512	510
PCGP	PGRG	600	602	601	587	579	602	594	602	603	606	598	598	602	605	604	401	371	597	602	601	602	601	576	603	603
PGLA	GT11	166	176	166	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	123	144
PGLA	GT12	188	196	186	187	170	180	197	170	231	228	228	193	231	171	169	177	170	170	171	184	229	219	157	173	171
PGLA	ST10	208	210	205	93	100	93	102	90	102	107	109	104	100	93	93	90	90	90	90	95	106	98	99	93	90
PLPS	GT11	127	126	148	145	144	148	148	148	148	129	128	129	128	128	128	128	128	129	129	129	129	129	128	128	128
PLPS	GT12	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	ST18	140	85	59	61	60	62	61	61	61	60	59	58	58	60	59	59	58	58	59	58	59	59	59	59	60
SGRI	GT21	135	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGRI	GT23	145	143	143	139	139	141	139	141	142	141	118	119	119	118	118	114	117	116	116	116	116	113	116	116	116
SGRI	ST24	145	104	69	68	67	68	70	69	69	70	61	60	60	63	63	62	57	61	63	61	64	63	63	64	62
TJGS	GT1A	172	194	162	142	136	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	212	202	
TJGS	GT1B	162	187	154	131	128	131	158	226	224	229	195	169	180	169	182	161	164	169	175	167	217	176	161	168	172
TJGS	ST1C	219	197	208	182	178	80	80	113	121	121	108	100	93	93	93	97	89	94	91	94	110	102	92	93	92
TJGS	GT2A	214	216	213	216	216	203	209	211	211	210	184	184	184	211	148	147	148	148	148	148	149	213	215	166	166
TJGS	GT2B	211	212	209	210	212	200	208	208	208	206	182	181	181	206	141	143	143	144	144	143	142	210	210	162	161
TJGS	ST2C	257	257	257	257	257	250	253	253	253	237	237	237	255	212	210	210	210	210	210	210	259	257	224	224	224
Total CCGT-Gas		4751	4455	4302	4065	3885	3675	3696	3767	3877	3748	3683	3610	3668	3588	3352	2819	2705	2986	3201	3386	3631	3760	3612	3566	3558
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	HY02	12	12	11	11	11	12	11	11	12	11	12	12	12	11	11	11	11	11	11	11	11	11	11	11	11
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	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	8
HTRG	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
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	-1
KNRG	HY02	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
KNYR	HY01	105	60	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 Sunday

		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																								
KNYR		HY02	103	104	104	60	61	-1	-1	-1	-1	-1	-1	59	101	101	101	101	102	-1	-1	61	61	61	-1	-1	-1	-1	-1	-1	99	99	99	99	99	99	99													
KNYR		HY03	104	59	0	0	0	0	0	0	0	0	0	106	105	105	105	105	0	0	0	0	0	0	0	0	0	0	0	0	100	101	101	100	100	100	100	98												
KNYR		HY04	105	105	106	106	101	101	101	101	101	61	63	61	67	63	64	61	61	64	61	64	61	60	69	62	60	59	60	102	62	0	0	0	101	101	99	99	60	58	87	93	101	101	101	101	100	99	72	
LPIA		HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
LPIA		HY02	15	15	15	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	10	10	10	10	11	12	12	12	12	12	12	12	12						
MNOR		HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	4	4	4	4	6	6	6	6	6	6	6	6	6	6	6	6						
PGAU		HY01	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1						
PGAU		HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					
PGAU		HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	21	-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					
PGAU		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	0	0	0	0	-1	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0			
SIHY		HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	51	51	51	51	31	22	0	0	0	0	50	51	51	50	51	51	51	51	51	51	51	51				
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	0	0	0	0	0	0	0	0	30	50	50	50	50	50	50	50	50	50	50					
SYPS		HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	10	0	0	0	0	0	17	25	25	25	25	25	25	25	17	17	0	0					
SYPS		HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	17	0	0	0	0	25	25	25	25	25	25	25	25	17	17	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	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	25	17	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	25	25	25	25	17	0	0
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1					
TMGR		HY02	35	34	35	34	33	34	34	35	34	35	34	34	35	35	35	35	35	35	35	35	35	35	35	32	35	35	34	34	34	35	85	0	0	0	32	33	33	33	33	33	34	33	34	34	33	33		
TMGR		HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	2	62	83	62	62	62	62	0	0	0	0	0	0	0	30	30	30	30	30	30	0	0	0	0			
TMGR		HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-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	-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				
UPIA		HY01	4	4	4	4	4	4	3	3	3	3	3	3	4	4	4	4	4	4	4	4	3	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
UPIA		HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4					
Total Hydro			532	442	324	276	271	233	209	210	210	232	170	172	171	240	174	196	168	173	176	174	280	384	459	491	484	480	294	271	213	318	322	366	302	340	305	255	206	167	165	647	876	941	935	943	840	808	707	621
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		
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	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	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	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	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	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	0	0	0	0	0	0																		

Daily MW Generation on Sunday

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																									
SRev CCGT-Gas		597	601	763	701	820	603	508	437	327	456	369	442	384	464	700	1233	1347	1066	851	666	421	292	440	486	494	529	434	313	281	468	435	350	259	234	289	454	389	360	584	284	197	152	184	143	201	259	275	420	
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
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
SRev Co-Gen		1	-2	-1	2	1	0	1	2	-1	0	1	3	2	-5	2	0	0	0	-3	0	2	-3	-1	1	1	0	2	-1	1	0	1	1	1	-3	2	2	0	-1	-1	1	0	1	-1	1	0	3	0	4	
Syncon		1128	1128	1128	1128	1128	1078	1229	1229	1229	1078	1229	1229	1229	1128	1229	1078	1229	1229	1229	1229	977	1127	1127	1127	976	1127	1228	1041	1127	976	1127	1249	1228	1228	1228	1228	1228	903	787	636	615	615	802	889	953	1166			
Hydro		105	195	113	161	166	254	127	126	126	255	166	164	165	197	162	291	168	163	160	162	156	152	329	146	153	157	294	166	123	292	115	222	135	95	131	124	73	112	114	357	264	437	444	436	352	330	317	202	
S.Reserve Total		2011	2085	2175	2151	2282	2102	2098	2233	2188	2335	2230	2298	2243	2247	2571	3081	3212	2918	2703	2526	2263	2121	2208	2218	2225	2260	2163	2066	2093	2261	2132	2002	1971	2033	2156	2265	2153	2150	2396	1827	1535	1501	1489	1476	1637	1760	1842	2061	